UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION
GROUND WATER BRANCH

RECORDS OF WELLS, WATER LEVELS, AND QUALITY OF GROUND WATER IN THE SAMMAMISH LAKE AREA, KING COUNTY, WASHINGTON

By
Bruce A. Liesch

Open-file report. Not reviewed for conformance with stratigraphic nomenclature or editorial standards of the Geological Survey

February 1955

55-96

CONTENTS

ILLUSTRATIONS

TABLES

RECORDS OF WELLS, WATER LEVELS, AND QUALITY OF GROUND WATER in the SAMMAMISH LAKE AREA, KING COUNTY, WASHINGTON

By Bruce A. Liesch

INTRODUCTION

This report, one of a series on the ground-water resources of the State of Washington, contains well records and other data collected during the course of an investigation in the Sammamish Lake area immediately east of Seattle, King County, Washington. Most of these investigations are conducted in cooperation with the State of Washington, Department of Conservation and Development, Division of Water Resources. However, a few investigations, including the one in the Sammamish Lake area, have been made entirely with Federal funds. A similar investigation is now being made in the area to the west, including the city of Seattle and metropolitan areas to the north and south. It is planned that results of the two investigations will be combined into a single comprehensive report. In order that the data collected can be made available sooner, this report has been prepared with only a brief explanatory and descriptive text.

Location and Extent of Area

The area covered by the investigation (figure 1) occupies about 300 square miles in the lowlands of the Puget Sound basin in King County, east of Seattle. For convenience the area has been given the name "Sammamish Lake area." It includes the eastern shore of Lake Washington, the Sammamish Valley, the Snoqualmie Valley, and the intervening uplands. It is

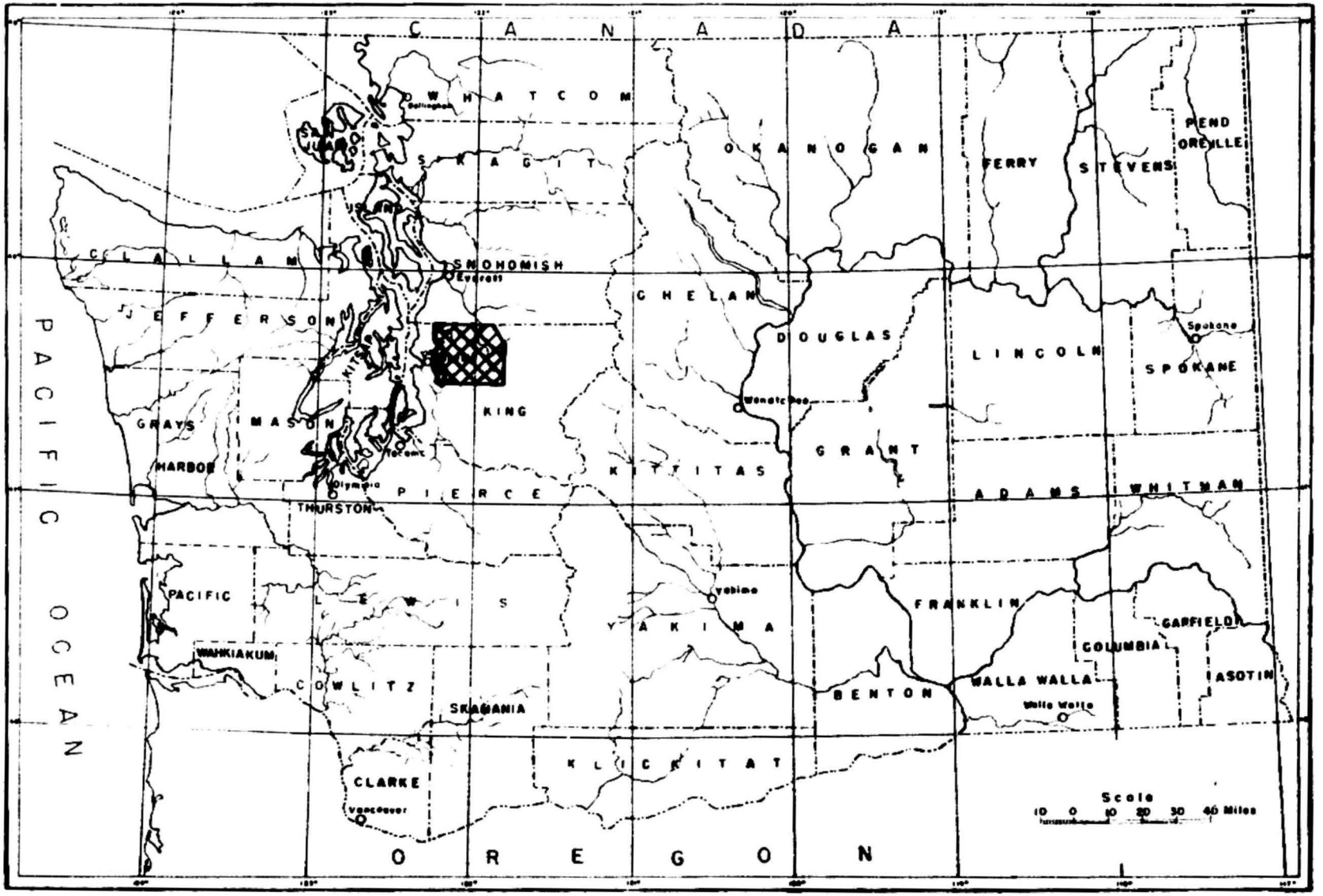


Figure 1.—Map of the State of Washington showing area covered by this investigation.

bounded on the north by the Snohomish County line, on the south by the bedrock hills extending approximately along the township line between townships 23 and 24, on the west by Lake Washington, and on the east by the foothills of the Cascade Mountains.

Purpose and Scope of the Investigation

The area is one of very rapidly increasing population. Census figures show that the population of King County increased 45.2 percent from 1940 to 1950. The population of the city of Seattle increased only 27 percent in the same period, indicating that the increase in suburban areas, such as the Sammamish Lake area, was much more than 45 percent. Practically all the water supplies in the area are acquired from ground-water sources. The rapid increase in population and the increased per-capita consumption of ground water have resulted in many more requests for data, indicating that a systematic appraisal of the ground-water resources of the area was needed.

The objective of the investigation was to gather all data available pertaining to the occurrence of ground water, and to appraise the quantity and quality of water available from the various aquifers. The data collected include records of wells and springs, information on materials penetrated, pumping-test data, and data pertaining to the quality of water. Periodic water-level measurements were made in a number of wells and several aquifer tests were made by pumping selected wells under controlled conditions. Chemical analyses were made of water samples collected from a number of wells and springs.

The purpose of this report is to present for general use some of the data obtained during the investigation.

History of Investigation

An investigation of the ground-water resources was started in the Lake Washington area in cooperation with the State of Washington, Department of Conservation and Development, Division of Water Resources, by A. M. Piper and T. E. Eakin in 1944. At that time some information was furnished to Water District 59; however, owing to the demand of other projects during the emergency conditions of World War II the investigation was not carried to completion.

The investigation was reactivated in an enlarged area in February 1951 as a Federal ground-water project and the well canvass was completed in November 1952. Periodic measurements of water levels have been continued since then in several wells, and records have been obtained of a number of wells drilled subsequent to completion of the well canvass.

Occurrence of Ground Water

The Puget Trough is in part a structural and in part an erosional basin, in consolidated rocks of Mesozoic and Tertiary age, which has been partially filled with consolidated deposits of Quaternary and possibly late Tertiary age. The maximum thickness of the younger unconsolidated deposits is not known, but wells have been drilled to depths of 1,500 to 2,000 feet at several places without reaching bedrock. The Puget Trough was generally filled to a level which is now at an elevation of about 600 feet above sea level, although discontinuous glacial and fluvial deposits have been observed along the flanks of the mountains to altitudes of about 2,000 feet above sea level. Subsequent erosion by major streams has cut troughlike valleys into this fill to an elevation only slightly above sea level, and Puget Sound itself occupies a trench which extends as much as 1,000 feet below sea level.

The consolidated rocks of Tertiary age along the southern end of the Sammamish Lake area at some places yield adequate quantities of ground water for domestic and small community supplies but do not contain aquifers capable of

sustaining large yields. The lenticular bodies of sand and gravel within the Quaternary fill are the best aquifers in the Sammamish Lake area. Many wells have yields ranging from 200 to 300 gallons per minute and several wells are capable of yielding more than 1,000 gallons per minute. Most of the successful wells obtain water from aquifers above sea level. The materials occurring below sea level are in general finer grained and less permeable.

The water table beneath upland areas generally is within 100 feet of the land surface, but at a few places it may be as much as 300 feet below the land surface. In lowland areas water levels generally range from a few feet to a few tens of feet below the land surface.

Recharge is derived mainly from direct precipitation on the area, although some of the recharge in the Snoqualmie Valley may be derived from the Snoqualmie River which rises in the Cascade Mountains.

Chief utilization of ground water in the Sammamish Lake area has been for municipal and domestic supplies although irrigation use is rapidly increasing. At present only a small part of the available supply is being utilized.

Acknowledgments

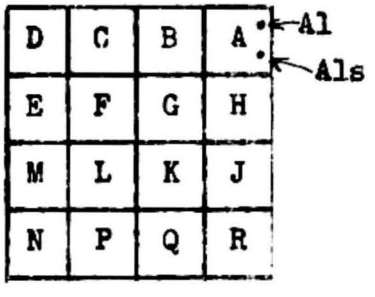
The well records were obtained from well owners, users, and drillers. The friendly cooperation of these people is appreciated and acknowledged. Special thanks should be given to H. O Meyer, well driller of Kirkland, who gave free access to his files of well logs, and to Robinson and Roberts, consulting ground-water geologists of Tacoma, who supplied hydrologic data from their files. The cooperation of the Department of Conservation and Development, Division of Water Resources, in furnishing data from its files is gratefully acknowledged.

EXPLANATION OF DATA

The data included in this report consist of tables of well data, tables of spring data, hydrographs of wells, well logs showing material penetrated, tables of chemical analyses, and a map showing the location of the wells and springs.

Well-Numbering System

Well numbers used by the Geological Survey in the State of Washington are based on and show locations of wells according to the rectangular system for subdivision of public land, indicating township, range, section, and 40-acre tract within the section. For example, in the well number 25/5-17A1, the part preceding the hyphen indicates successively the township and range (T. 25 N., R. 5 E.) north and east of the Willamette base line and meridian. (Because all townships in Washington are north of the Willamette base line the letter "N", indicating north, is omitted; and because most of the State is east of the Willamette meridian the letter "E" is omitted for those ranges east of the Willamette meridian, but "W" is included when the range lies west of the Willamette meridian.) The first number following the hyphen indicates the section (sec. 17) and the letter (A) gives the 40-acre subdivision of the section as shown in the diagram. The last number (1) is the serial number of the well in that particular 40-acre tract. Thus the first well recorded in the NE¼ NE¼ sec. 15, T. 25 N., R. 5 E., would have the number 25/5-17A1, and the second well would have the number 25/5-17A2. Springs are numbered in the same manner except that the letter "s" is added following the serial number. Thus the first spring in the NE¼NE¼ sec. 17 would have the number 25/5-17A1s.



Well and Spring Records

Table 1 contains records of representative wells in the Sammamish Lake area. Wells are listed in consecutive order by section within each township. Township tiers are listed from south to north, with individual townships within the tier listed by range from west to east. Well locations are shown on plate 1.

Most of the well records were obtained during the canvass made between February 1951 and November 1952, although records of a few score wells had been obtained earlier. Information was collected on most of the drilled wells, and on most of the dug wells used for public water supply, industry, and irrigation. However, there are a very large number of dug wells used for domestic purposes which were not canvassed; it is thought that those for which records were obtained are reasonably representative.

Table 2 contains records of representative springs. Although the springs listed include only a small percentage of the springs in the area, it is thought that most of the important springs are included and that the ones listed are fairly representative of all the springs in the area.

Much of the information in the tables is based on data obtained from the owner, driller, or user of the well. Written records were available for some wells, but for others the information was reported from memory and is subject to error.

Well Logs

For many wells, the materials penetrated during drilling or digging were recorded by the driller, well inspector, or owner at the time the well is constructed. The well logs given in table 3 are based on these records which were obtained from well drillers, well owners, consultants, and similar sources. Most of the logs were kept as written records; a few are based on the owner's or driller's memory. The records were edited for consistency in terminology and presentation but were not changed otherwise.

Chemical Analyses

Comparatively complete chemical analyses for 19 samples of ground water are included in table 4. Six of the analyses were made by the Geological Survey; the others were made by commercial laboratories. Some of the analyses were modified slightly by changing the form in which the constituents were reported so that these analyses would be conformable with others.

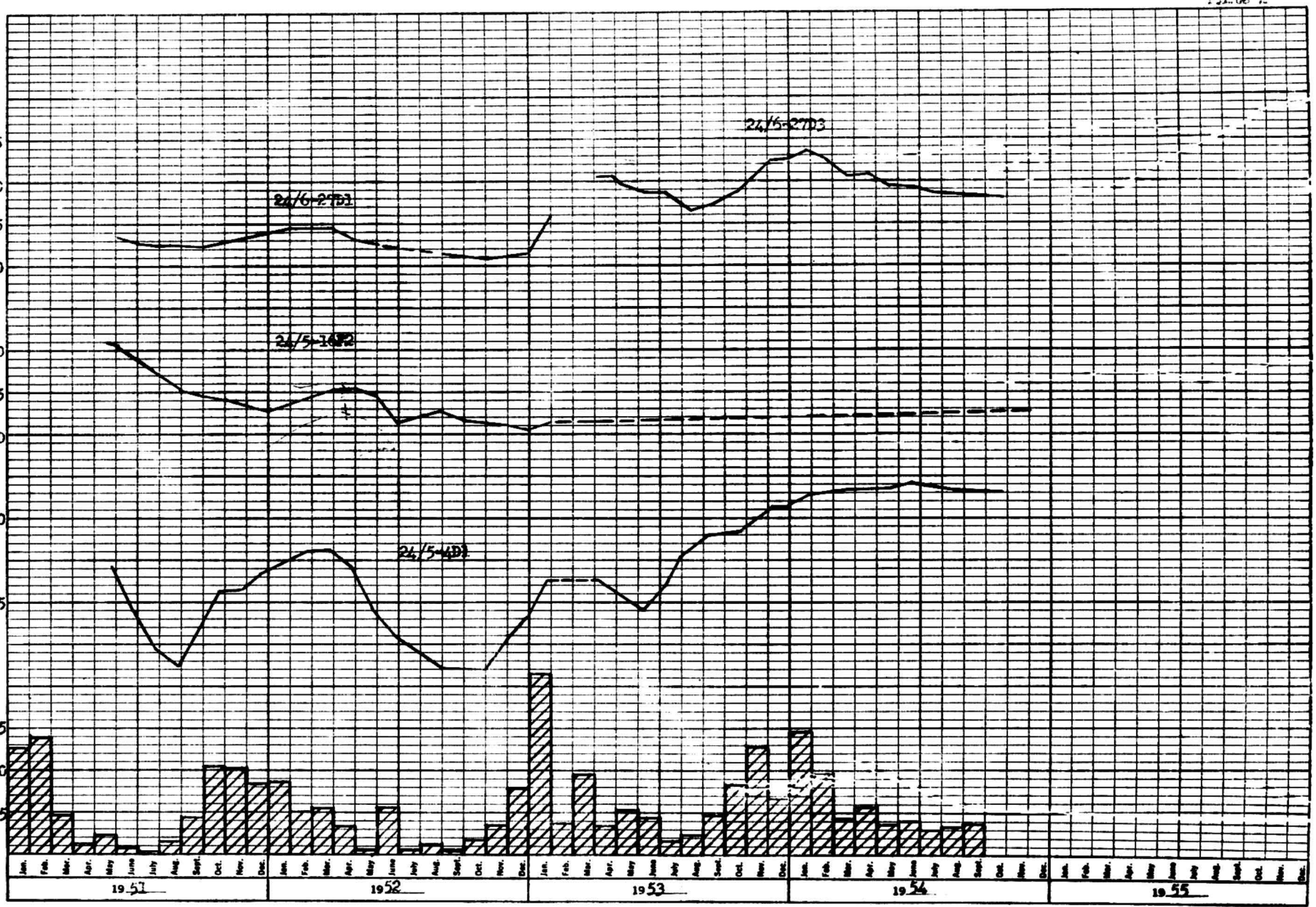
Water samples were collected from many wells and springs for field tests of hardness and chloride. Although these tests are not as accurate as chemical analyses performed in established laboratories, they are of sufficient accuracy to give a good idea of the general character of the water. Several hundred such determinations were made and are given in individual columns in tables 1 and 2.

Observation Wells

Several wells in the area were selected as observation wells at the beginging of the well canvass in 1951. Water levels were measured periodically in most of these wells for a period of about 2 years. Measurements have been continued in three of the wells.

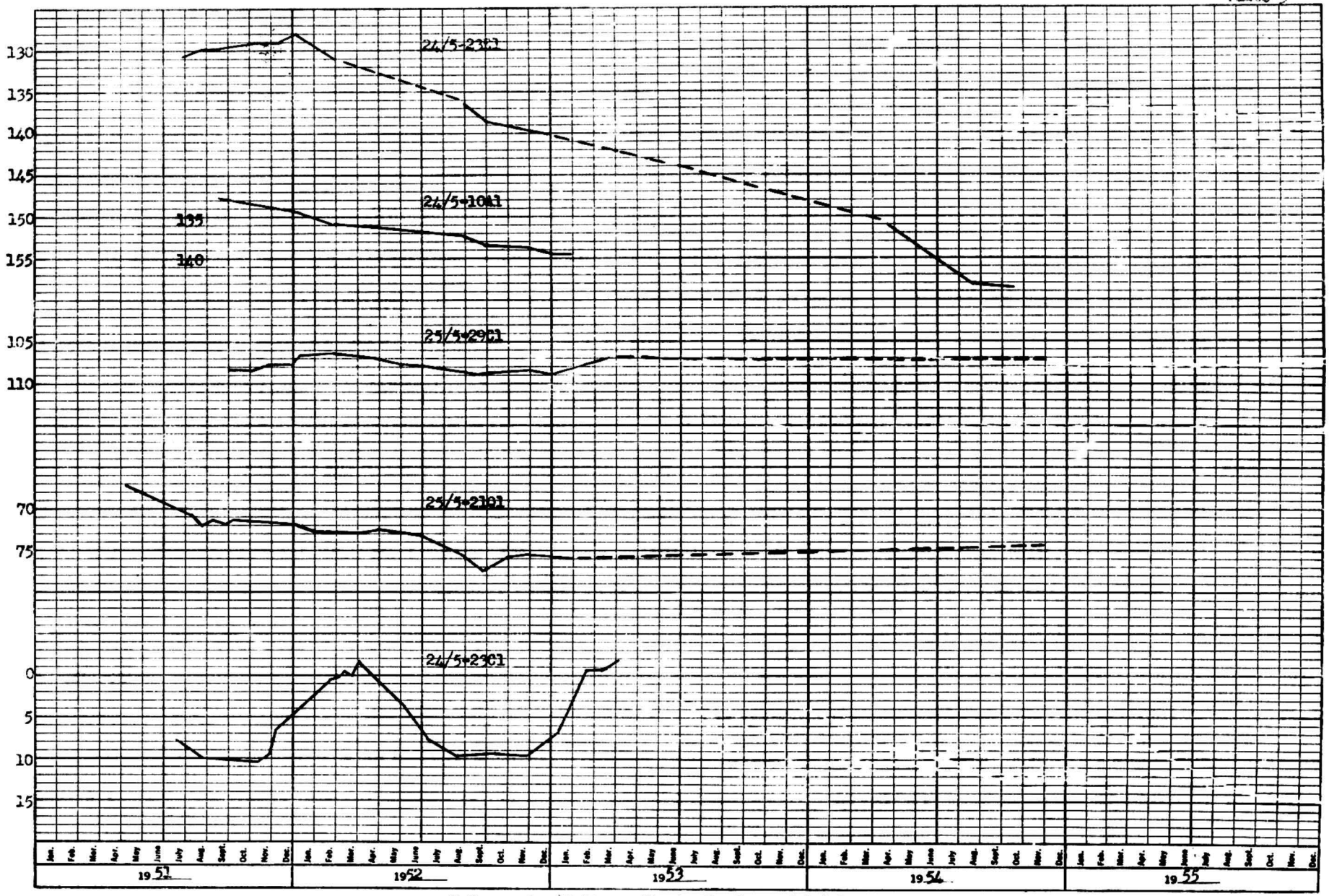
Graphs of the fluctuations of water levels in these wells are shown in plates 2, 3, and 4.

Plate 2



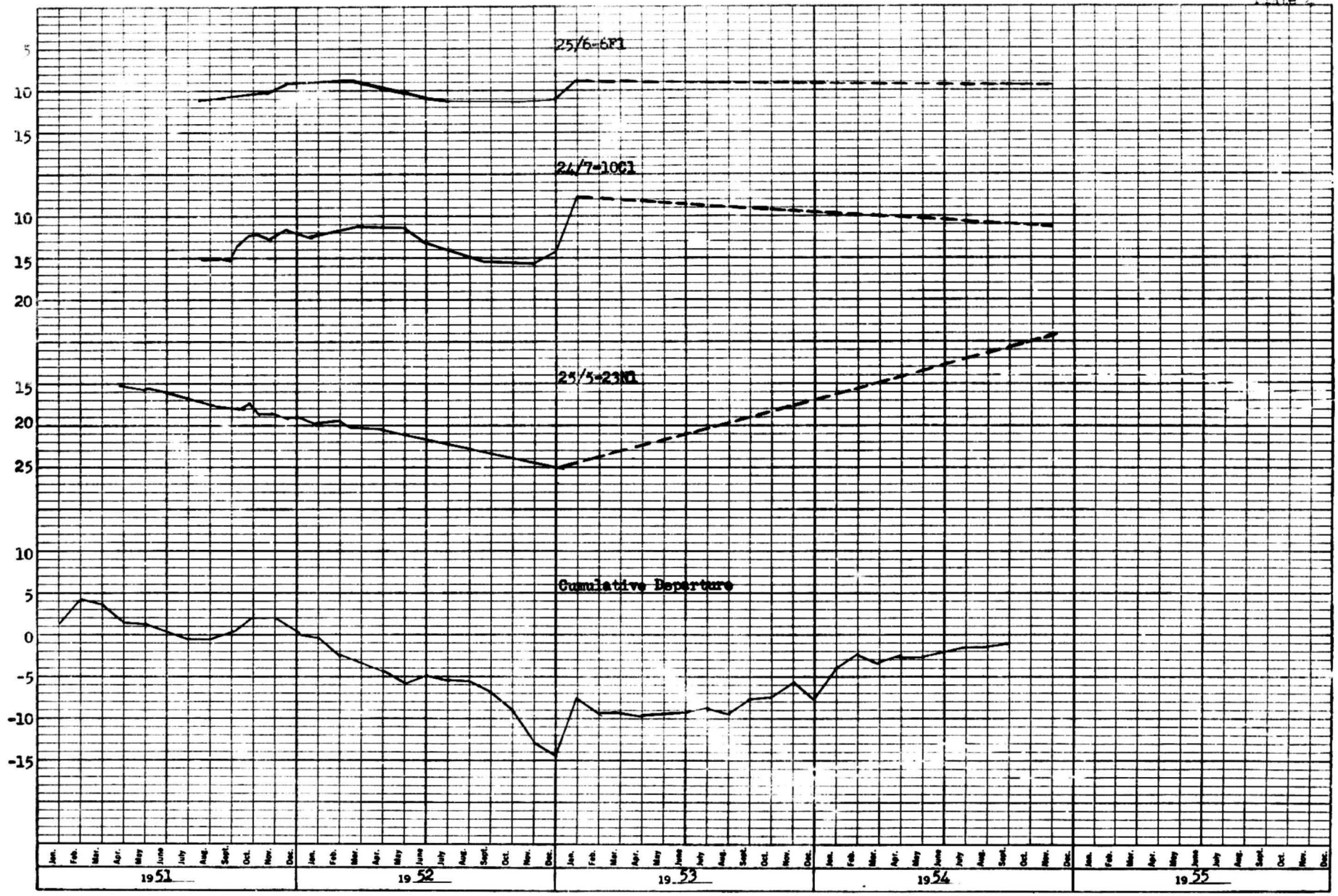
Hydrographs of four wells in the Sammamish Lake area and precipitation in Seattle

Plate 3



Hydrographs of five wells in the Sammamish Lake area

Plate 4



Hydrographs of three wells and curve of cumulative departure from normal precipitation at Seattle.

Table 1.--Records of representative wells in the
(Locations of wells

Topography and approximate altitudes: Fp, flood plain; S, slope; T, terrace; U, upland; Ub, Upland bench; V, valley. Altitude of land-surface datum at well from barometric traverses or interpolated from topographic maps.

Type of well: Bd, bored; Dg, dug; Dr, drilled; Dn, driven; J, jetted.

Depths and water levels: Measurements expressed in feet and decimal parts of feet were made by the Geological Survey; those in whole feet were reported by owner, tenant, or driller.

Well number	Owner or Tenant	Topography and approximate altitude	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing	
							Depth to top (feet)	Thickness (feet)
	T. 24 N., R. 4 E.							
11A1	A. R. Early	S. 75	Dg	90	60-5	89	89	1
12 11D1	H. W. Attle[illegible]	Ub. 125	Dr	31	8	31	22	9
11J1	Fred Bekin	S. 44	Dr	685	12-5	..	..	..
12E1	[illegible]wald Thanem	Ub. 100	Dg	52	38-30	52	28	24
12F1	Mercer Island Co-op Water Assoc.	S. 250	Dg-Dr	28	36-16	28	17	5
12F2	. . . .do. . . .	S. 250	Dr	256	..	..	..	..
12G1	Earl Judd	V. 100	Dg	21	72	..	..	..
12H1	F. L. Moodie	U. 220	Dg	55	36	..	..	..

Sammamish Lake Area, King County, Wash.
are shown on pl. 1)

Type of pump: B, bucket; C, centrifugal; J, jet; P, piston (deep-well type); S, suction (any of several types of suction pumps used for domestic wells); T, turbine; HP, hand-operated piston; HS, hand-operated suction.

Use of water: D, domestic; Ind, industrial; Inst, institutional; Irr, irrigation; PS, public supply; S, stock; NU, not in use; De, destroyed.

Remarks: dd, drawdown; ft, foot or feet; gpm, gallons per minute; hr, hour(s) L, log in table 3; A, analysis in table 4; min, minute; temp, temperature in degrees Fahrenheit; P, pumping test.

zone(s)	Water level		Type of pump and horsepower	Use of water	Hardness as CaO_3, parts per million	Chloride parts per million	Remarks
Character of Material	Feet below land-surface datum	Date					
Sand, black	42.77	2-28-51	P, 1	D	156	12	Adequate for three lawn sprinklers. L.
Gravel	22.12	.. do. ..	C, ¾	D	120	6	Supplies 40 families with well and two springs. L.
..	17.19	1951	N	NU	..	..	Methane gas reported. L.
Silt	22.65	2-27-51	J, 1	D	10	224	Reported to penetrate till above aquifer.
Gravel	8½	Reported	..	PS	..	..	L.
..	..	..	N	NU	..	..	Test hole. L.
Silt	9.77	7-23-51	C, ½	D	..	..	
..	48	Reported	J, ½	D	134	16	Reported well can be pumped dry. Recovers in 1 hr.

Table 1.--Records of representative wells i. the

Well no.	Owner or tenant	Topog. and Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of Casing (feet)	Water-bearing	
							Depth to top (feet)	Thickness (feet)
	T. 24 N., R. 4 E.--Con.							
12H2	M. P. Starr	U. 250	Dg	6.	30	..	..	..
12J1	D. L. Duckey	U. 265	Dg	35	24	35	30	5
12M1	Mercer Island Co-op Water Assoc.	S. 270.5	Dg	62	20	62	32	30
13B1	W. E. Varns	U. 200	Dr	100	8	100	80	20
13B2	L. Voulis	U. 200	Dr	70	6	65½	60	10
13H1	Carl Stroud	Ub. 210	Dr	225	6	..	..	..
13J1	Ivan Kearns	Ub. 190	Dg	69	38	69	..	..
25B1	E. W. Rudow	S. 80	Dr	130	6	..	110	20
25B2	H. W. McCurdy	S. 70	Dr	114	6	113	104	9
25B3	E. R. Hinton	S. 75	Dr	128	6	128	124	4
25K1	W. J. Galletly	U. 275	Dr	45	6	45	..	..
25K2	E. L. Collingham	U. 275	Dr	40	6	40	..	..
25L1	H. Packard	S. 125	Dg	22	36	..	..	..
25L2	Keene Bettinger	S. 225	Dg	147	36	..	..	..
25Q1	H. L. Marshall	U. 275	Dr	175	6	..	..	..
36A1	J. W. Elkins	Ub. 160	Dg	60	..	..	..	..
36A2	John Stenhouse	Ub. 160	Dg	20	30	20	..	..

Sammamish Lake Area, King County, Wash.--Con.

ene(s)	Water level		Pump-Type, H. P.	Use	Hard-ness	Chlo-ride	Remarks
Character of material	Below datum (feet)	Date					
..	..	..	J. ¾	D	78	12	Reported cannot be pumped dry.
Sand, fine	26.56	2-20-51	J. ¾	D	48	10	Dd 7 ft after 2½ hr pumping 15 gpm. L
Sand and gravel	36	3- 1-51	T.20	PS	..	..	Reported dd 4 ft after pumping 900 gpm. L. A.
Sand	60	Reported	T. 2	NU	..	..	Well supplied 12 families Now abandoned.
. . . .do. . . .	50	. .do. .	N	D	..	..	L.
..	195	Reported	J. 5	D	84	12	Reported to penetrate clay and till above aquifer.
Silt	27.30	2-27-51	J. ½	D	..	..	
Gravel	30	. .do. .	P. 2	D	..	..	L.
. . . .do. . . .	21	. .do. .	..	D	..	..	Dd 50 ft after pumping 10 gpm. L.
Sand and gravel	60	. .do. .	J. 2	D	..	..	Reported no dd after 40 min pumping 25 gpm. L.
. . . .do. . . .	14.30	5-10-51	J. ½	D	104	12	Reported to penetrate till.
. . . .do. . . .	..	..	J. ½	D	..	..	. . . . Do . . . .
Sand	6.76	3- 2-51	S. ½	D	100	10	
Till	138.83	. .do. .	J. 1	D	..	..	Reported to penetrate 147 ft of till.
..	..	..	P. ¾	D	..	..	Supplies two houses.
..	..	..	..	D	132	14	
Sand	0.38	3- 2-51	S.1/6	D	84	10	Reported dry in summer.

Table 1.--Records of representative wells in the

Well no.	Owner or tenant	Topog. and Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of Casing (feet)	Water-bearing	
							Depth to top (feet)	Thickness (feet)
	T. 24 N., R. 5 E.							
2E1	D. D. Marshall	U. 350	Dr	165	4-3	160	135	30
2G1	Harold Berndt	U. 275	Dg	35	36	30	30	5
2L1	Ed Arndt	U. 320	Dg	10	48	10	0	10
2N1	Harry Riley	U. 385	Dg	17	60	..	..	..
2N2	--Conklin	U. 380	Dg	21	36	..	..	..
2R1	J. A. Gibson	U. 330	Dg	24	36	..	..	..
2R2	W. G. Cochren	U. 340	Dg	64	48	..	..	..
3B1	C. E. Ulbrickson	U. 300	Dr	41	6	41	34	7
3G1	L. L. Glaney	U. 330	Dg	50	36	..	..	..
3K1	Bill Farnum	U. 365	Dr	99	6	99	91	8
3L1	Manson Green	U. 325	Dg	102	60	100	100	2
3N1	J. W. Hayes	V. 50	Dg	6	60	..	..	..
3N2	C. S. Curtis	V. 50	Dg	3	60	..	..	..
4D1	City of Bel[illegible]	V. 56	Dr	610	12-8	..	535	55
4E1	G. C. [illegible]nderson	V. 50	Dr	146	6	142	142	4
4R1	A. L. Passenger	S. 75	Dg	45	36	41	0	45
5B1	H. E. Simi	S. 75	Dr	180	8	..	..	..
5D1	L. H. Black	U. 275	Dr	500	8	..	452	48
5F1	E. W. Oppliger	S. 70	Dg-Dr	72	8	62	54	10
5Q1	A. R. Cook	U. 125	Dg	122	36	..	..	..
5Q2	R. A. Llewellyn	U. 140	Dr	130	8	..	108	14

Sammamish Lake Area, King County, Wash.--Con.

Name(s)	Water level		Pump-Type, H. P.	Use	Hard-ness	Chlo-ride	Remarks
Character of material	Below datum (feet)	Date					
Sand	80	Reported	N	D	..	..	L.
. . . .do. . . .	10.70	2-13-51	J, ¾	D	50	8	Reported to penetrate till.
. . . .do. . . .	6	Reported	S, ¾	D,S	30	6	
..	2.4	2- 8-51	J, 1	D	22	16	
..	8.17	. .do. .	J, ½	D	82	12	
..	11.5	. .do. .	J, ⅓	D	186	14	
..	..	. .do. .	J, ⅓	D	54	20	
Sand and gravel	26.28	7-13-51	J, ¾	D	46	14	L.
..	44	Reported	J, ½	D	90	16	Reported well has never gone dry.
Sand and gravel	43.87	5- 3-51	J, 1	D	44	10	Reported to penetrate 91 ft of till.
Sand	100	Reported	P, ¾	D,S	26	8	Reported no dd after 6 hr pumping 10 gpm. Penetrated 100 ft of till.
..	1.00	2-13-51	S, ⅓	D	66	8	
..	Flows	3-14-51	C, ¾	D,S	62	8	
Sand and gravel	12.85	1-28-52	N	NU	..	..	L. A.
. . . .do. . . .	12	Reported	J, ¾	D	..	..	Well screened. L.
Sand	42	. .do. .	P, 4	D	54	14	
..	113+	10-25-51	P, 1½	D	..	..	
Sand	180	Reported	P, 3	D	..	..	Reported yield 150 gpm. L.
Sand and gravel	..	..	P, ½	D	..	..	L.
Sand	119.04	10-19-51	P, ½	D	90	22	Reported to penetrate till. Adequate for six families.
Sand and gravel	104.84	. .do. .	N	NU	..	..	Abandoned. Pumped sand. L.

Table 1.--Records of representative wells in the

Well no.	Owner or tenant	Topog. and Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of Casing (feet)	Water-bearing	
							Depth to top (feet)	Thickness (feet)
	T. 24 N., R. 5 E.--Con.							
7J1	William Jacquett	Sp. 45	Dr	[illegible]	6	52	45	[illegible]
7J2	C. E. Willson	Sp. 50	Dr	95	6	95	82	2
7K1	Lyle Wickstrom	Sp. 175	Dr	224	6	224	..	..
7P1	Mercer Crest Co-op Water Assoc.	Up. 275	Dg	77	54-48	77	48	29
8B1	Frank Riepl	Sp. 45	Dg	15	36	..	..	..
8H1	Guy Kinley	Vp. 25	Dg	8	36	8	0	8
8H2	Walter Smith	Vp. 25	Dg	8	36	8	0	8
8J1	F. A. Mandell	Sp. 25	Dg	16	36	16	14	2
8K1	Roy Borgerson	Sp. 25	Dr	45	[illegible]	45	36	9
9A1	L. J. Peterson	Ubp. 70	Dg	29	30	..	..	..
9A2	S. K. Adams	Ubp. 80	Dg	48	36	..	..	..
9C1	Norwood Village	Sp. 140	Dr	140	10-8	140	100	40
9E1	A. J. Durkee	Tp. 30	Dg	13	30	..	..	..
9K1	Chellson & Chellson Market	Up. 110	Dg	44	36-30	44	40	4
9K2	E. G. Kinsman	Ubp. 140	Dr	112	6	110	0	78
9K3	Sterling Theatres Inc.	Sp. 130	Dr	190	6	180	150	40
9L1	Oakley, Morris and Shoemaker	Tp. 100	Dg	68	60	..	..	..

Sammamish Lake Area, King County, Wash.--Con.

Zone(s) Character of material	Water level: Below datum (feet)	Water level: Date	Pump-Type, H. P.	Use	Hardness	Chloride	Remarks
Sand and gravel	4.47	10- 1-51	N	··	··	··	L.
Sand	15.95	10- 9-51	N	··	··	··	L.
··	80	Reported	P, ½	D	108	12	Reported dd 70 ft after bailing 20 gpm.
Sand	55.60	2-20-51	J, 5	PS	76	8	Reported dd 11 ft after 20 min pumping 75 gpm. Supplies 60 families. L, A.
··	5.70	2-14-51	S	Irr	80	24	
Sand	8.00	. . do . .	J, ¼	D	··	··	Reported insufficient for irrigation.
. . . .do. . . .	2	Reported	S, ¼	D	52	28	
. . . .do. . . .	8	. . do . .	S, ½	D	86	24	Reported to penetrate till. Adequate for irrigation.
Sand and gravel	··	··	J, ¾	D	60	14	L.
··	23.40	2-12-51	S, ½	D	62	14	Reported can be pumped dry.
··	41.30	2-13-51	J, ¾	D	84	24	
Sand and gravel	100.96	3- 2-51	T,15	PS	··	··	Reported to yield 150 gpm. L. A.
··	7.17	2-13-51	J, ¼	D	130	14	Supplies two families.
Gravel	27.05	2- 5-51	J, 1	D	76	14	Reported to penetrate till.
Sand	90	Reported	J, 3	D	70	14	Reported to penetrate 34 ft of clay beneath aquifer. L.
. . . .do. . . .	··	··	T	PS	··	··	Reported yield, 150 to 200 gpm. L.
··	62.29	2- 5-51	P, 1	D	140	14	Supplies four families.

Table 1.--Records of representative wells in the

Well no.	Owner or tenant	Topog. and Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of Casing (feet)	Water-bearing	
							Depth to top (feet)	Thickness (feet)
	T. 24 N., R. 5 E.--Con.							
9L2	Factoria School	U. 190	Dg	[illegible]	48	..	..	..
9L3	M. H. Mercord	T. 50	Dg	20	60	20	..	..
9Q1	Sterling Theatres Inc.	V. 100	Dr	388	8	388	..	..
10A1	R. W. Diedrich	U. 410	Dr	171	4	..	156	5
10C1	M. B. Stewert	S. 110	Dg	13	48	13	..	..
10D1	L. R. Capper	V. 65	Dg	15	36	..	..	..
10D2	.... do	V. 65	Dr	72	6	70	65	7
10J1	James Kane	U. 325	Dr	142	6	..	..	..
10J2	H. E. McKinney	U. 325	Dr	103	6	100	9	13
10K1	A. F. Audrell	U. 325	Dr	70	[illegible]	..	..	..
10K2	Harmes Pacific Transport Co.	U. 325	Dr	43	6	..	..	..
11D1	E. L. Dempsey	U. 400	Dg-Dr	190	36-6	..	..	..
11L1	Puget Sound Air Service Inc.	U. 325	Dr	75	6	66	65	10
11M1	East Side Sportsman Club	U. 350	Dg	36	36	36	..	..
11N1	Bell & Valdez	Ub. 350	Dr	83	12	78	74	8
11Q1	Bill Lind	V. 250	Dg	12	30	12	..	..
12C1	R. A. Wilcox	S. 40	Bd	60	24	60	..	..

Sammamish Lake area, King County, Wash.--Con.

Zone(s) Character of material	Water level: Below datum (feet)	Water level: Date	Pump-Type, H. P.	Use	Hardness	Chloride	Remarks
..	130.12	2- 6-51	F 7	Inst	60	12	
Gravel	13	Reported	S, 1/6	D	86	10	Supplies two families and greenhouse.
..	55	. .do. .	T, 3	PS	..	..	Reported to penetrate clay. Yield 15 to 20 gpm.
Sand, coarse	132.70	9-27-51	J, 1	D	..	..	Reported dd 10 ft after 15 min pumping 3 gpm. L.
Sand	5.00	2-13-51	S, ¼	D	74	12	Reported to penetrate 15 ft of till.
. . . .do. . . .	Flows	2-12-51	J, ½	D	66	18	Abandoned.
. . . .do. . . .	Flows	9-21-51	N	D	74	16	Flows 1½ gpm. L.
..	..	..	J, 1½	D	64	10	
Sand	52	2- 8-51	J, 2	D	44	10	Reported adequate for 20 unit motel. L.
..	..	..	T, 3	..	64	14	Supplies four business places.
..	..	..	J, 1	Ind	..	..	Pumps continuously.
..	134.39	5- 1-51	T, 7½	D,S	58	14	Reported adequate for irrigation.
Sand and gravel	..	..	T, 2	D	154	16	Reported to yield 35 gpm. L.
..	13	Reported	J, 1	D	..	..	
Sand and gravel	34	. .do. .	T	D	..	..	Reported dd 34 ft after 72 hr pumping 110 gpm. Drilled to depth of 340 ft. L.
Sand, coarse	2.55	2- 5-51	J, 1½	D	52	18	Supplies cafe and motel.
Sand	45	Reported	J, ½	D	48	14	

Table 1.--Records of representative wells in the

Well no.	Owner or tenant	Topog. and Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of Casing (feet)	Water-bearing	
							Depth to top (feet)	Thickness (feet)
	T. 24 N., R. 5 E.--Con.							
12F1	J. J. Lewis	S, 40	Dg	21	48	..	..	..
12F2	W. J. Lewis	S, 45	Dg-Dr	80	6	..	..	..
12L1	L. M. Curtin	S, 50	Dg	10.5	..	..	..	..
12L2	. . . .do. . . .	S, 50	Dr	410	4	..	..	..
13A1	T. Isaacson	S, 80	Dr	305	6	..	..	..
13C1	Willow Ridge Community	Ub, 300	Dr	180	6	..	..	..
13C2	L. A. Clark	Ub, 250	Dr	328	8	..	..	..
13D1	--Tweeter	Ub, 400	Dr	50	6	50	45	5
13H1	L. C. Gibson	S, 175	Dr	300	6	300	..	..
13N1	Ersel Lockridge	Ub, 700	Dr	217	6	130	165	52
13N2	J. O. Fish	Ub, 695	Dr	156	6	..	..	..
14B1	R. G. Sundburg	Ub, 400	Dr	158	8	..	..	..
14H1	G. E. Hall	U, 550	Dr	541	6	..	538	3
14J1	Joseph Liebsack	Ub, 700	Dr	337	6	42	45	292
14J2	W. B. Seelye	Ub, 650	Dr	80	6	..	..	..
14K1	Ruddy Nelson	Ub, 675	Dr	96	6	..	..	..
14L1	C. W. Latta	Ub, 750	Dg-Dn	35	30-2	..	..	..
14R1	G. W. Bondo	Ub, 700	Dr	127	6	60	100	23

Sammamish Lake area, King County, Wash.--Con.

Sense(s) Character of material	Water level: Below datum (feet)	Water level: Date	Pump-Type, H. P.	Use	Hardness	Chloride	Remarks
..	11.28	10-15-51	[illegible]	D	42	14	Reported slight fluctuation of water level.
Sand and gravel	..	..	T. 1	D	82	14	Reported to penetrate till.
..	2.12	10-18-51	C. [illegible]	D	..	..	Reported excessive iron, unfit for human consumption.
..	..	..	N	NU	..	..	
..	2.53	3- 4-44	N	NU	..	..	L.
..	..	..	J. 5	D	56	18	Supplies 15 families.
..	40	Reported	P. 3	D	32	16	Reported to penetrate Tertiary sedimentary beds.
Sand and gravel	15.59	10-16-52	N	D	24	10	L.
Gravel	Flows	8- 9-51	C. ½	[illegible]S	..	..	Reported yield 3-4 gpm.
Sandstone	..	..	S. ¼	D	80	10	L.
..	34.10	10- 1-52	P. ¾	D	84	10	
..	80±	2- 6-51	P. 2	D	72	18	
Sandstone	..	..	P. 3	D	..	..	Reported dry after 4 hr bailing 20 gpm. L.
. . . .do. . . .	140	Reported	P. ¾	D	14	14	Reported dd 260 ft bailing 10 gpm. L.
..	33.30	10- 1-52	J. ½	D	8	14	Dd 38 ft after 70 min. pumping 3 gpm.
..	86.77	. .do. .	J. ¾	D	6	10	Supplies two families.
..	..	. .do. .	P. ¾	D	56	8	Reported will pump dry in 1 hr.
Sandstone	Flows	2- 6-51	C. ½	D	88	8	L.

Table 1.—Records of representative wells in the

Well no.	Owner or tenant	Topog. and Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of Casing (feet)	Water-bearing	
							Depth to top (feet)	Thickness (feet)
	T. 24 N., R. 5 E.—Con.							
15A1	E. Luks	U, 360	Dg	16	30	..	..	..
15B1	D. J. Wyman	U, 350	Dg	7	24	..	..	..
15C1	E. E. Stewart	Ub, 325	Dg	30	30	..	..	..
16A1	D. J. Davis	U, 125	Dg	17	40	17	..	..
16B1	Paul Springer	U, 125	Dg	14	36	15	..	..
16C1	Neil Brown	U, 160	Dr	65	6	46	44	4
16F1	S. W. Tucker	U, 140	Dg	44	36	..	..	..
16F2	R. S. Kibler	U, 160	Bd	53½	24	53½	30	23½
16F3	E. Mankin	U, 160	Dr	64	6	64	55	9
16H1	Ward Wilson	S, 300	Dg	10	36	10	..	..
16H2	J. C. Shepard	S, 275	Dr	200	[illegible]4	50	..	..
16H3	C. D. Smith	Ub, 245	Dr	88	6	88	84	2
16J1	H. S. Karrasch	Ub, 300	Dr	180	6	46	100	80
16M1	Jack Cluck	V, 65	Dr	277	6	277	274	3
16N1	. . . .do. . . .	U, 225	Dr	150	6	140	146	4
18B1	M. I. Stucky	U, 325	Dg	56	48	60	60±	5±
18F1	R. A. Elliott	U, 360	Dr	90	4	..	..	..
18G1	M. E. Kristoferson	U, 350	Dr	145	20	145	70	75
18L1	T. C. Bradshaw	U, 360	Dg	112	30	112	90	22

Sammamish Lake area, King County, Washington.--Con.

...ene(s)	Water level		Pump-Type, H. P.	Use	Hard-ness	Chlo-ride	Remarks
Character of material	Below datum (feet)	Date					
Gravel	4.01	2- 6-51	J. ¾	D	26	12	
. . . .do. . . .	3.38	. .do. .	J. ½	D	..	..	Supplies 2 houses.
..	14.22	. .do. .	J. ½	D	32	18	Reported to penetrate till.
Sand and gravel	8	Reported	S. ½	D	30	10	Reported well nearly dry.
Gravel and boulders	2.61	2- 6-51	N	D	..	..	Temp 45.
Sand and gravel	..	..	J. ½	D	..	..	L.
..	29.71	2- 5-51	J. ¾	D,S	132	18	Reported to yield 6 gpm. Penetrates till.
Sand	40.67	. .do. .	J. ½	D	74	16	Reported to yield 10 gpm. L.
Sand and gravel	42.14	4-13-51	J. ½	D	..	..	Reported to yield 8 gpm. L.
Sandstone	3.15	2- 6-51	N	D	22	12	Gravity system.
. . . .do. . . .	0.28	. .do. .	S. ¼	D	60	12	Reported to yield 3½ gpm.
Sand	Flows	7-31-51	C	D	..	16	Flows about 1 gpm. Odor of H_2S. L.
Siltstone	18	Reported	J. 1½	D	8	8	Reported dd 65 ft bailing 15 gpm. L.
Sand and "shale"	Flows	2- 6-51	T	PS	..	..	Estimated flow, 2½ gpm. L. A.
Sand and gravel	131.5	Reported	T	PS	..	..	Reported dd ½ ft after 10 hr pumping 44 gpm. L.
Sand, fine	52.51	8-21-52	J. 1	D	44	10	Reported to yield 5 gpm. L.
..	..	..	J. 1½	D	90	8	Supplies five families.
Sand and gravel	75	Reported	N	..	..	..	Reported to yield 100 gpm. L.
Sand, coarse	..	..	J. 1	D	102	8	L.

Table 1.--Records of representative wells in the

Well no.	Owner or tenant	Topog. and Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of Casing (feet)	Water-bearing	
							Depth to top (feet)	Thickness (feet)
	T. 24 N., R. 5 E.--Con.							
18L2	W. E. Watson	U, 380	Dg	79	48	..	..	..
18M1	L. M. Baker	S, 325	Bd	47	6	47	..	..
18P1	Dan Davis	U, 355	Dr	215	6	215	..	..
19C1	W. V. Korman	U, 355	Dr	152	6	152	..	..
19C2	W. A. Larsen	U, 355	Dr	174	6	174	..	..
19C3	A. Jacobsen	U, 355	Dg	101	48	101	..	..
19C4	T. B. Leake	U, 350	Dg	87½	36	..	..	..
19D1	L. P. Bonifaci	S, 230	Dg	26	30	27	10±	17±
19E1	E. R. Brown	U, 355	Dg	130	48	130	..	..
19M1	Otto Risch	U, 320	Dg	19	36	5	..	..
19N1	R. Campbell	U, 305	Dg	305	36	..	29±	3±
19P1	Carl Alson	U, 300	Dr	43	6	43	25	18
19P2	. . . .do. . . .	U, 325	Dr	212	6	50	..	..
19Q1	D. W. Close	S, 50	Dr	60	6	60	..	..
20H1	Oscar Granfelt	Ub, 240	Dr	180	6	175	..	..
20Q1	G. H. Sheets	Ub, 250	Dr	240	4	..	..	..
23A1	Ralph Lowe	U, 745	Dg	11	30	..	..	..
23C1	Hill Top Community	U, 880	Dr	312	12-8	65	52	260
23E1	Horizon View	U, 980	Dr	353	12	..	5	..
24N1	W. V. Baker	Ub, 1,085	Dr	187	4	..	..	..

Sammamish Lake area, King County, Wash.--Con.

Zone(s) Character of material	Water level: Below datum (feet)	Water level: Date	Pump-Type, H. P.	Use	Hardness	Chloride	Remarks
..	60.73	2-21-51	P, ½	D	144	10	
Sand	37	Reported	J, ½	D	146	10	Reported to penetrate till.
. . . .do. . . .	175	. .do. .	P, 1	D	80	8	
. . . .do. . . .	107.79	2-23-51	P, 1	D	78	8	Supplies two homes.
. . . .do. . . .	122.80	. .do. .	P, 1	D	100	10	
Sand, fine	..	..	J, 1	D	104	8	Reported to penetrate till and clay.
Silt	75½	Reported	J, ¾	D	106	8	Reported to penetrate till.
Sand and gravel	20.86	2-23-51	J, ¾	D	..	..	L.
..	100	Reported	J, 1	D	134	10	
..	4.64	2-23-51	S, ½	D	62	6	Reported inadequate.
Sand	16.67	2-26-51	J, ½	D	40	8	Supplies two families. L.
Sand and gravel	28	Reported	J, 1	D	..	..	L.
..	80	. .do. .	N	NU	..	..	Abandoned. L.
..	..	..	P, ½	D	90	8	
Sand	139.28	9-27-51	P, ½	D	..	..	Reported to yield 15 gpm. L.
..	..	..	P, 1½	D	34	16	
..	8.52	7-31-51	C, ½	D	..	..	
Sandstone	7.83	7-26-51	C	PS	120	16	Dd 7 ft after 1 hr pumping 50 gpm. L.
. . . do . . .	131.19	. .do. .	P, 5	PS	118	14	Dd 40 ft after 3½ hr pumping 30 gpm. P.
..	65.30	10- 1-52	P, ½	D	10	14	

Table 1.--Records of representative wells in the

Well no.	Owner or tenant	Topog. and Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of Casing (feet)	Water-bearing	
							Depth to top (feet)	Thickness (feet)
	T. 24 N. R. 5 E.--Con.							
24N2	--Paschal	Ub. 1,115	Dr	[illegible]	[illegible]	..	..	..
24P1	R. T. Leber	Ub. 1,150	Dr	127	6	..	..	..
24Q1	R. Dowling	Ub. 1,010	Dr	101	6	60	70	31
24Q2	Bill Price	U. 1,070	Dr	210	6	74	90	113
25B1	A. B. Clark	U. 1,425	Dr	510	6	84	..	..
25B2	M. Berge	Ub. 1,340	Dr	250	6	190	..	..
25D1	V. J. Carlson	U. 1,050	Dg	12	60	12	..	..
28N1	James Kausky	S. 350	Dg	8	30	8	0	8
28N2	Eylar Gardens	U. 550	Dr	407	..	..	..	..
29B1	H. O. Marshall	U. 260	Dg	28	36	28	24	4
29H1	E. D. Laville	U. 350	Dg	54	48	..	..	..
29K1	Joseph Chideak	S. 30	Dr	400	6	80	25	110
29K2	. . . .do. . . .	S. 25	Dr	72	6	72	52	5
29Q1	I. L. Shaw	Ub. 75	Dr	72	6	72	70	2
30D1	Mercer Island School Dist. 400	U. 330	Dg	76	36	..	..	..
30L1	W. H. MacCrossan	U. 325	Dg	60	48	60	..	..
30L2	Girl Scout Camp	U. 325	Dg	59	36	..	..	..
32J1	A. A. Brewer	U. 330	Dr	245	6	240	200	45

Sammamish Lake area, King County, Wash.--Con.

Zone(s) / Character of material	Water level: Below datum (feet)	Water level: Date	Pump-Type, H. P.	Use	Hardness	Chloride	Remarks
..	77.70	12- 1-52	N	D	..	..	Abandoned. L.
..	113.14	10-22-52	P, ¾	D	136	10	
Sandstone	20	Reported	J, ¾	D	70	8	Reported to yield 10 gpm. L.
. . . do . . .	50.16	10-22-52	P, ¾	D	15	8	Reported dry bailing 10 gpm. L.
..	19.04	7-31-51	N	D	..	..	
Sandstone	182.44	. .do. .	P, 1½	D	134	16	
..	10.23	9-28-51	S, ¼	D	50	14	Reported low in summer.
Gravel and sand	4.36	6-22-51	S, ¼	D	32	10	
..	242	Reported	P, 1	D	92	16	
Gravel	19.20	8- 9-51	S, ¼	D	..	..	Reported to penetrate till. L.
..	..	..	..	..	..	..	Under construction, no water 6/22/51.
Gravel, cemented	Flows	6-14-51	N	NU	20	40	L.
Gravel and clay	..	..	T, 1	D	36	34	Reported to yield 7 gpm. L.
Sand and gravel	Flows	8- 2-51	N	D	76	18	Measured flow 9 gpm. H_2S odor. L.
..	63.42	2-26-51	P, ½	D	66	10	
..	..	..	P	D	82	8	
..	38.30	2-26-51	P, ½	D	..	..	
Sand and gravel	..	..	P, 1½	D	70	14	L.

Table 1.--Records of representative wells in the

Well no.	Owner or tenant	Topog. and Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of Casing (feet)	Water-bearing	
							Depth to top (feet)	Thickness (feet)
	T. 24 N., R. 6 E.							
1M1	Roy Sherman	U. 400	Dg	17	20	17	0	17
2Q1	Beaver Lake Well Co.	U. 420	Dr	..	10	..	..	..
2Q2	R. Case and W. E. De Water	U. 420	Dr	..	6	..	..	..
3R1	E. T. Baker	U. 390	Dg	12	30	..	0	12
4A1	P. C. Goebel	U. 540	Dg	47	48	..	..	..
4E1	Jim Harvey	U. 375	Dr	186	6	186	160	26
4H1	G. Henrickson	U. 545	Dg	24	40	4	23	1
4H2	J. S. Judge	U. 540	Dg	35	48	4	34	1
4K1	J. P. Moushay	U. 425	Dg	17	60	..	..	..
4N1	Pine Lake Community	U. 417	Dr	300	10-8	300	273	18
5D1	J. B. Peck	S. 200	Dg	7	30	7	..	..
5H1	--Cochrane	U. 350	Dr	153	6	153	130	23
6A1 H	M. A. Obermarck	S. 40	Dr	94	6	..	..	..
6B1	Mint Grove Community	S. 40	Dr	50	8	..	..	..
6Q1	Sam Dunlap	T. 75	Dr	265	6	..	..	..
7A1	M. Mattila	T. 125	Dr	76	6	..	..	..
8D1	H. F. Woods	U. 407	Dr	337	6-4	337	325	12
8F1	Ed Bond	U. 380	Dr	342	6	342	336	6
8K1	Erickson & Son Poultry Farm	U. 428	Dg	165	32-12	..	112	53

Lake Sammamish area, King County, Wash.--Con.

...ene(s) / Character of material	Water level: Below datum (feet)	Water level: Date	Pump-Type, H. P.	Use	Hardness	Chloride	Remarks
Sand and gravel	..	..	S	D	358	54	Reported inadequate.
..	..	..	T, 2	D	56	12	Supplies six families.
..	..	..	J, 1	D	60	14	Supplies two families.
Sand, fine	9.32	11-27-51	S, 1/6	D,S	18	8	
..	28.62	7- 5-51	J, ½	D	48	18	Reported inadequate.
Gravel	..	..	P, 1	D	58	14	L.
Sand	14.51	7- 5-51	S, ¼	D	42	16	Reported to penetrate till.
Gravel	20	Reported	P, ¼	D,S	66	16	
..	11.08	7- 5-51	S, ¼	D,S	54	14	Reported low in late summer.
Gravel and sand	181.40	7-16-51	T	PS	..	..	Reported dd 2 ft bailing 45 gpm. L.
Sand	2.75	10-23-51	S, ¼	D,S	100	14	Reported dd 4 ft after 2½ hr pumping 4 gpm.
Sand and gravel	120	Reported	..	D	..	..	L.
Sand, fine	Flows	. . do . .	J, ½	D	88	12	Well screened.
. . .do. . .	Flows	. . do . .	J	D	80	14	Supplies 19 families. Well screened.
Sand and gravel	..	..	P, ½	D,S	92	16	Reported clay from 80 to 265 ft.
..	..	..	P, ¾	D	84	24	
Gravel	286.54	7-13-51	P, 2	D	92	12	L.
. . .do. . .	167.51	1-28-52	P, ¾	D	80	12	L.
Sand	156.42	7-20-51	P, 1½	D,S	58	18	Reported to yield 9 gpm. Well screened. L.

Table 1.--Records of representative wells in the

Well no.	Owner or tenant	Topog. and Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of Casing (feet)	Water-bearing	
							Depth to top (feet)	Thickness (feet)
	T. 24 N., R. 6 E.--Con.							
9A1	M. R. French	U. 400	Dr	108	6	108	100	8
9A2	--Warner	U. 395	Dr	..	6	..	..	..
9A3	Bill Hanson	U. 395	Dr	96	6	..	88	8
9E1	C. Gustafson	U. 395	Dr	162	6	..	..	..
9G1	R. J. Swenson	U. 400	Dr	111	6	105	85	26
9H1	G. Peterson	U. 410	Dr	101	6	101	80	21
9M1	A. R. Barker	U. 425	Dg	20	48	3	..	..
9M2	A. C. Forbes	U. 430	Dg	65	36	10	..	..
10B1	Clayton Holsten	U. 375	Dg	20	30	20	0	20
10E1	A. M. Braydon	U. 430	Dr	144	6	144	60	84
10L1	A. R. Tucker	U. 370	Dr	60	6	..	..	..
10P1	Phillip Frink	U. 350	Dr	59	6	59	49	10
10Q1	H. Shultz	U. 390	Dr	51	6	51	31	20
11B1	G. L. Bartells	U. 425	Dr	92	6	..	..	..
14P1	J. H. Mills	U. 425	Dr	101	6	101	62	39
15B1	Marvel Scoville	U. 430	Dr	57	4	57	..	..
15B2	P. J. Hobbs	U. 410	Dr	60	4	60	51	9
16E1	R. G. Haldeman	Ub. 150	Dr	196	6	191	184	12
16E2	. . . .do. . . .	S. 75	Dg	8	48	10	2±	6±
16E3	Hans Jansen	V. 75	Dn	72	2	72	..	..

Sammamish Lake area, King County, Wash.--Con.

Zone(s) Character of material	Water level Below datum (feet)	Water level Date	Pump-Type, H. P.	Use	Hardness	Chloride	Remarks
Gravel	93	Reported	P, ½	D	62	16	Reported to penetrate till.
..	..	..	J, ½	D	28	16	
Gravel	76	Reported	J, ½	D	52	12	L.
..	..	..	P, ½	D	44	12	
Sand	83	Reported	J, 1	D	48	16	Well screened. L.
Gravel and sand	77	. .do. .	J, ¾	D	44	14	L.
..	19.01	6-29-51	S	D	..	..	Reported inadequate.
..	61	Reported	P, ¾	D	68	16	Reported to penetrate till.
Sand and gravel	11.17	11- 7-51	S, ½	D	..	..	Reported till under sand and gravel.
Gravel	119	Reported	J	D	48	16	L.
..	..	..	J, ½	D	70	12	
Sand and gravel	41	Reported	..	D	56	6	L.
. . . .do. . . .	25	. . do . .	P	D	42	14	L.
Gravel	75±	11-27-51	J, 1	D	62	12	Yellow iron oxide deposit in casing. Filtered.
Sand and gravel	..	..	..	D	..	..	Reported to yield 25 gpm. L.
..	48	Reported	P, ½	D	32	14	
Gravel and sand	47	. . do . .	J, ½	D	30	10	L.
Sand	53.62	10-30-52	T, ¾	D	74	16	Reported dd 85 ft bailing 15 gpm. L.
Sand and gravel	4.68	6-29-51	S, ½	D	42	14	
..	Flows	10-19-51	S, ½	D	106	15	Reported to penetrate till.

Table 1.--Records of representative wells in the

Well no.	Owner or tenant	Topog. and Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of Casing (feet)	Water-bearing	
							Depth to top (feet)	Thickness (feet)
	T. 24 N., R. 6 E.--Con.							
18E1	A. J. Peters, Jr.	T. 80	Dg	40	48	40	35	5
19L1	A. Perrow	Ub. 750	Dg	67	48	67	..	..
19P1	Tiemeyer & Perrow	Ub. 750	Dr	255	8	62	62	193
19R1	W. F. Tiemeyer	Ub. 725	Dg	27	36	27	24	3
21R1	Irving Tibbetts	V. 70	Dn	60	1½	58	..	..
21R2	. . . .do. . . .	V. 70	Dn	70	1½	67	..	..
22H1	G. W. Sherrell	U. 440	Dg	54	48	12	51	3
22L1	Gasper Pinter	U. 340	Dg	8	72	5	5	3
22L2	Bert Keleman	U. 375	Dr	138	6	138	127	11
22N1	Frank Kramer	V. 70	Dr	42	6	42	..	..
23D1	E. W. Plum	U. 480	Dg	32	60 x 6	32	5	27
27D1	Lakeside Gravel Co.	V. 75	Dr	58½	12	..	41	17½
27D2	. . . . do	V. 80	Dr	46	12	33	30	16
27D3	. . . . do	V. 75	Dr	62	12	52	31	31
27R1	Town of Issaquah	S. 200	Dr	45	8	45	..	..
27R2	. . . . do	S. 200	Dr	300	8	..	190	300
28J1	Issaquah Creamery Co.	V. 80	Dr	54	12	54	32	22
30E1	U. S. Army	U.1.430	Dr	225	6	..	..	..
30E2	. . . .do. . . .	U.1.440	Dr	500	6	..	..	..

Sammamish Lake area, King County, Wash.--Con.

ene(s) Character of material	Water level Below datum (feet)	Water level Date	Pump-Type, H. P.	Use	Hardness	Chloride	Remarks
Sand	30.80	10-28-52	N	D	..	..	Not completed. L.
..	46.50	10-16-52	N	NU	..	..	Inadequate. L.
Sandstone	Flows	1-29-53	N	D	..	..	L.
Sand and gravel	24.16	10-22-52	J, ½	D	90	12	L.
..	Flows	10-19-51	S, ¼	D	58	20	H_2S odor. Flows 1½ gpm.
..	Flows	. . do . .	S, ½	D	56	18	Flows 3½ gpm.
Sand and gravel	45.37	11-20-51	J, ¾	D,S	44	14	Reported to yield 6 gpm. L.
Sandstone	4.71	4- 2-51	S, ½	D	..	..	
. . . .do. . . .	20	Reported	J, ¾	D	108	12	L.
Sand and gravel	3¾	. . do . .	J, ¾	D	72	16	Reported to yield 60 gpm.
Sand	27.59	11-20-51	S, ¼	D	22	8	Reported to penetrate till above aquifer.
Gravel and sand	16.35	5- 4-51	T,50	Ind	..	..	Reported to yield 600 gpm. L.
Gravel, coarse	22.60	6-16-52	T,50	Ind	..	..	Reported dd 0.6 ft pumping 730 gpm. L.A.
Sand and gravel	10.28	5-11-53	N	NU	..	..	Observation well. L.
..	Flows	8-20-51	T, 7½	PS	..	..	Reported to yield 80 gpm. A.
Sand and gravel	..	..	N	NU	..	..	L.
Gravel and sand	10	Reported	T, 30	Ind	..	..	Reported dd 10 ft after 10 hr pumping 400 gpm. L. A.
Sandstone	59.05	10-22-52	N	NU	..	..	Test hole. Abandoned. Reported to penetrate shale and sandstone.
. . . .do. . . .	..	..	N	NU	..	..	. . . . Do . . . .

Table 1.--Records od representative wells in the

Well no.	Owner or tenant	Topog. and Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of Casing (feet)	Water-bearing Depth to top (feet)	Water-bearing Thickness (feet)
	T. 24 N., R. 7 E.							
4L1	Gordon Ransom	V. 85	Dg	23	24	23	19±	5±
6B1	C. B. Faith	S. 115	Dg	12	36	12	..	..
6K1	Floyd Eddy	S. 110	Dg	17	48	..	15	2
8G1	D. M. Price	V. 85	Dg	8	30	8	0	8
8J1	W. E. Boeing	V. 95	Dr	104	6	98	98	6
8J2	. . . .do. . . .	V. 85	Dg	24	36	..	..	..
9D1	Albert Hanson	S. 100	Dg	25	30	25	..	..
9E1	Frank Crittenden	S. 80	Dr	65	6	59	50	15
9Q1	Bill Lamb	V. 110	Dr	198	6	..	..	..
9R1	I. J. Smi	V. 80	Dn	21	1½	..	..	..
10C1	C. F. Alexander	V. 79	Dr	52	8	52	30	22
11L1	Fall City Water Co.	S. 450	Dr	..	..	..	..	..
21A1	Grace Johnson	Ub. 400	Dr	283	6-4	283	271	12
	T. 25 N., R. 4 E.							
25G1	R. Reid	U. 167	Dr	561	10-8	..	535	20
36A1	C. A. Glass	U. 100	Dr	294	8	..	..	..
	T. 25 N., R. 5 E.							
1C1	A. U. Chapman	S. 275	Dg	49	40	49	19	30
1E1	R. S. Bedbury	S. 230	Dg	33.5	40	20	..	..
1F1	Roy Markee	U. 350	Dg	23	48	20	13	10

Sammamish Lake area, King County, Wash.--Con.

Zone(s) Character of material	Water level: Below datum (feet)	Water level: Date	Pump-Type, H. P.	Use	Hardness	Chloride	Remarks
Gravel	15.53	11-27-51	S, ¼	D,S	56	12	L.
"	"	"	J, ¼	D	92	10	
Sand	10	Reported	J, ½	D,S	64	12	Reported to penetrate till.
Gravel	7.17	11-19-51	J, ½	D	88	10	
Sand, fine	47	Reported	N	D	88	10	L.
"	9.82	11-19-51	J, ½	D	60	14	Abandoned.
"	19.65	11-27-51	C, ¼	D,S	54	12	
Sand, coarse	13	11-28-51	J, ¾	D,S	86	10	Well screened. L.
"	58	Reported	J, ½	D,S	80	16	
"	"	"	S	D	46	10	
Gravel	13.83	1-28-52	C,10	Irr	"	"	Dd 3 ft after 20 min pumping 150 gpm. L. A.
"	Flows	8-20-51	N	PS	"	"	Reported to flow 50 gpm. A.
Sand	222.70	" do "	P, 1½	D,S	120	14	Reported to yield 6 gpm. L.
Gravel and sand	150	Reported	T,30	S	"	"	Reported to yield 244 gpm. L.
"	"	"	"	D	"	"	Reported to yield 13 gpm. L.
Gravel	45.96	5- 8-51	J	D	50	12	L.
Sand	24.20	" do "	J, 1	D	52	12	Reported to penetrate till.
" do "	21.55	" do "	S, ½	D	60	20	Reported inadequate. Sometimes dry in December. L.

Table 1.--Records of representative wells in the

Well no.	Owner or tenant	Topog. and Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of Casing (feet)	Water-bearing beds: Depth to top (feet)	Water-bearing beds: Thickness (feet)
	T. 25 N., R. 5 E.--Cont.							
1F2	E. L. Lindgreen	U. 370	Dg	50.5	40	27	27±	25±
1K1	J. G. Anderson	V. 45	Dr	40	6	40	35±	10±
2K1	R. J. Ness	V. 45	Dg	13	36	7	..	..
2M1	L. L. Jones	S. 175	Dr	..	6	..	..	..
2M2	A. Gubser	S. 110	Dg	17	48	17	2±	16±
3B1	R. Hartman	V. 65	Dg	18	24	15	0	18
3C1	F. A. Newton	S. 295	Dg	58	48	..	..	..
3D1	H. L. Swapp	U. 300	Dg	46	48	..	..	..
3M1	F. J. Norris	U. 410	Dg	30	44	26	..	..
3M2	W. Gugeler	U. 400	Dg	21	60	4	20	1
3F1	C. Remmen	U. 340	Dg	45	48	8	40	..
4F1	A. Bashor	U. 265	Dg	39.4	36	..	..	..
4J1	R. E. Bancroft	U. 380	Dg	24	36	12	..	..
5M1	City of Kirkland	U. 243	Dr	200	12-7	175	140	60
5R1	. . . .do. . . .	U. 240	Dr	204	12-7	158	148	56
8A1	W. N. Goldston	S. 330	Dg	55	36	..	..	..
8J1	H. W. Lindquist	S. 390	Dg	16	30	16	0	16

Sammamish Lake area, King County, Wash.--Con.

Zone(s) / Character of material	Water level: Below datum (feet)	Water level: Date	Pump-Type, H. P.	Use	Hardness	Chloride	Remarks
Sand	43.44	5- 8-51	B	D	32	12	Reported low or dry in November.
Sand and gravel	15	Reported	S, ½	D	..	..	H_2S odor. L.
Sand	8.53	4-13-51	J, ¾	D,S	94	16	Reported inadequate. Reported to penetrate clay above aquifer.
..	Flows	4-11-51	J, ¾	D,S	112	18	Reported to flow 2 gpm. Well screened.
Till, sandy	6.61	4-13-51	S, ¾	D	..	..	Reported inadequate.
Gravel	5	Reported	P, ½	D,S	..	..	
..	..	..	J, ¾	D,S	48	14	Water reported to contain some iron.
Gravel and sand	..	..	..	..	58	16	
Sand and gravel	14.45	4-10-51	J, ½	D	24	14	Can be pumped continuously for 14 hr.
Gravel	2.05	. .do. .	C, ¾	D	40	14	Reported to penetrate till.
Sand	34	Reported	J, ½	D,S	58	16	. . . . Do. . . .
..	26.58	5-25-51	J, ¾	D	38	18	
..	17.02	4-23-51	S, ¾	D,S	80	14	Reported inadequate supply from October to December.
Sand and gravel	82.65	8-21-52	T	PS	58	4	Well no. 6. Test hole drilled to 213 ft. L.A.
. . . .do. . . .	70.54	5-29-53	T	PS	..	..	Well no. 7. Test hole drilled to 273 ft. L.A.
..	49.79	5-24-51	P	NU	..	..	
Sand	8	Reported	S, ¾	D	164	30	Reported to penetrate sand only.

Table 1.--Records of representative wells in the

Well no.	Owner or tenant	Topog. and Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of Casing (feet)	Water-bearing	
							Depth to top (feet)	Thickness (feet)
	T. 25 N., R. 5 E.--Con.							
8P1	M. D. Howland	S. 260	Dr-Dn	70	4	70	50	20
9D1	F. W. Allen	S. 360	Dg	22	36	22	..	..
9H1	A. L. Tharaldson	U. 470	Dg	67	40	67	..	..
9H2	O. Gustafson	U. 480	Dg	90	40	..	..	..
9J1	R. J. Wills	U. 470	Dg	90	30	72	..	..
9M1	C. J. Rosin	S. 415	Dg	22.5	36	17	..	..
9N1	H. F. Jahn	U. 430	Dg	46	30	46	..	..
9R1	Pacific Farms Inc.	U. 500	Dr	200	16	200	140	40
10B1	R. K. Knuhn	S. 300	Dg	12	72	12	..	..
10C1	L. L. Pope	S. 320	Dg	28	36	28	..	..
10H1	H. H. Galt	S. 270	Dg	35	40	35	..	..
10K1	H. Schmidt	U. 375	Bd	28	30	28	2	22
10K2	I. F. Fladmark	U. 370	Dr	64	6	64	47	13
11A1	J. D. Graham	V. 45	Dg	15	60	15	8	7
11B1	R. L. Flowers	V. 45	Dn	27	2	27	..	..
11B2	J. L. Johnson	S. 230	Dg	16.7	36	2	16.7	10
11E1	D. Sell	S. 275	Dg	23	36	23	..	..

Character of material	Water level: Below datum (feet)	Water level: Date	Pump-Type, H. P.	Use	Hardness	Chloride	Remarks
Sand, black	50	Reported	T, 1	NU	..	..	Reported iron. L.
Sand	6.69	5-24-51	S	NU	..	..	
..	..	..	J, 1	D	56	14	
..	75.71	4-17-51	P, ½	D	72	20	Reported inadequate.
..	75	Reported	J, ¾	D	78	14	
..	16.23	4-16-51	C, ¼	D	38	12	Water level reported constant.
Sand	28.17	. .do. .	J, ½	D	54	16	Reported to penetrate sandy clay above aquifer.
. . . .do. . .	130	Reported	T, 5	S	192	50	Original depth 800 ft. Backfilled to 200 ft. Reported to yield 10,000 gals. per day.
. . . .do. . .	5.05	4-10-51	S, ¼	D	54	12	Reported fluctuation of static water level.
..	8.44	. .do. .	S, ½	D	44	12	
..	..	..	P, ¼	D	36	8	Reported inadequate, flows intermittently.
Sand	..	..	J	D	56	16	Reported to penetrate clay beneath aquifer.
Gravel and sand	35	Reported	J, ½	D	..	..	L.
. . . .do. . .	7.14	5-16-51	C,20	Irr	..	..	Reported to yield 250 gpm. A.
Sand and gravel	11.33	9-10-51	P, ¾	D	64	16	
Sand	10.84	4-11-51	S, ¼	D,S	44	12	Reported to penetrate sand and till intercalated.
..	11.62	. .do. .	S, ¼	D	88	10	

Table 1.--Records of representative wells in the

Well no.	Owner or tenant	Topog. and Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing	
							Depth to top (feet)	Thickness (feet)
	T. 25 N., R. 5 E.--Cont.							
11F1	T. Stephens	S. 75	Dg	60	36	4	..	..
11L1	C. Hall	S. 250	Dg	85	40	85	..	..
11M1	C. E. Smith	U. 325	Dr	55	6	55	..	..
11M2	Fred Brown	S. 275	Dr	110	6	..	98	1
11P1	W. S. Stopyra	S. 225	Dg	54	36	54	52	2
11Q1	M. Domingo	S. 220	Dg	99	36	99	..	..
12A1	W. Peterson	V. 40	Dg	11	30	11	..	..
12D1	City of Redmond	V. 47	Dg-Dr	56	48-18-10	50	46	10
12D2	. . . .do. . . .	V. 47	Dr	53	6	53	..	..
12G1	Frank Verral	V. 35	Dr	31	6	31	25	6
12G2	R. Gilbert	V. 35	Dr	29	6	29	25	4
12J1	W. A. Hampton	V. 45	Dg	19	36	20	0	20±
13N1	Irwin Lindquist	S. 100	Dg	20	60	7	..	..
13P1	F. T. Vinje	S. 150	Dg	42	36	42	..	..
13Q1	J. F. Bowser	S. 100	Dg	40	36	40	..	..
13Q2	Lee Nichols	S. 50	Dg	39	40	..	39	..

Sammamish Lake area, King County, Wash.--Con.

Zone(s) Character of material	Water level: Below datum (feet)	Water level: Date	Pump-type, H. P.	Use	Hardness	Chloride	Remarks
Till	3.46	4- 6-51	N	D	54	12	Reported to penetrate till to 85 ft. Reported inadequate.
..	..	..	P, ¾	D	96	12	Reported never dry.
..	..	..	J, ¼	D	54	12	Reported to penetrate till.
Gravel	41.68	7- 3-51	J, ¾	D	60	10	Reported dd 2 ft after 1 hr pumping 10 gpm. L.
Sand	47	Reported	J, ¼	D	38	16	Reported to penetrate till.
. . . .do. . . .	57.35	4- 6-51	P, ¾	D	78	18	
..	6.04	5-22-51	C,1	S	60	12	
Gravel and sand	15.08	1- 7-52	T,15	PS	..	..	Well screened. Reported dd 2 ft after 6 hr pumping 200 gpm. L.
. . . .do. . . .	16.83	5-20-51	N	NU	..	..	Test hole. Dd 1 ft after 1 hr pumping 45 gpm. L.
Sand and gravel	8	Reported	C, -	D,S	88	14	L.
. . . .do. . . .	..	..	C, -	D	..	..	Reported to yield 20 gpm. L.
Sand, coarse	14.41	5-22-51	C, ½	D	48	12	Reported to yield 15 gpm for 24 hr.
Sand	10.16	4-13-51	S, ¼	D,S	82	14	Reported to penetrate till above aquifer.
. . . .do. . . .	29.19	7-20-51	J, ¾	D	112	10	Reported to penetrate clay and till above aquifer.
..	10	Reported	J, ½	D	102	14	
Gravel	35	. .do. .	S, ¼	D	78	10	Reported dd 4 ft after 4 hr pumping 20 gpm. Recovered in 12 hr.

Table 1.--Records of representative wells in the

Well No.	Owner or tenant	Topographic situation (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing beds: Depth to top (feet)	Water-bearing beds: Thickness (feet)
	T. 25 N., R. 5 W.--Con.							
13Q3	C. Untiedt	S. 50	Dg	40	36	..	..	..
14D1	Morelli Bros. Poultry Farm	U. 355	Dr	75	6	75	..	..
14E1	G. E. Edwards	U. 330	Dg	19	48	19	..	..
14F1	A. T. Fleming	U. 335	Dr	140	6	55	47	..
14G1	A. Ingerson	U. 300	Dr	115	6	110	65	50
14H1	M. Corcoran	S. 190	Dg	26	40	26	26	..
14J1	Gil Chandler	Ub. 230	Dr	192	6	192	188	4
14P1	W. H. Hanson	U. 350	Dr	96	6	96	59	37
14R1	W. A. Freeborn	Ub. 320	Dg	26	30	26	..	..
15A1	V. A. Jennings	U. 350	Dg	25	42	5	..	..
15D1	E. R. Payne	U. 490	Dr	108	6	..	..	..
15E1	James Scott	U. 500	Dg	36.5	48	..	..	..
15H1	W. H. Scott	U. 340	Dr	54	6	..	..	..
15H2	. . . .do. . . .	U. 350	Dg	60	36	..	58	2
15K1	A. J. Eiler	U. 325	Dg	16	..	..	..	..
15L1	H. F. Barnes	U. 330	Dg	20	30	20	..	..
15Q1	M. Halverson	U. 325	Dg	28	36	28	..	..
15R1	A. L. Berkey	U. 390	Dg	64	30	64	..	..
15R2	F. D. Green	U. 380	Dg	34	..	..	..	..

Sammamish Lake area, King County, Wash.--Con.

...one(s) / Character of material	Water level: Below datum (feet)	Water level: Date	Pump-type, H. P.	Use	Hardness	Chloride	Remarks
..	Dry	3-29-51	..	..	..	..	
Gravel	70	Reported	P. 5	D.S	128	24	Reported drilled to 975 ft, backfilled to 75 ft.
. . . .do. . . .	..	..	S, ½	D	38	18	
Sand and gravel	..	..	P, ½	D	66	14	L.
Sand	45	Reported	J, ½	D	128	8	Reported to penetrate clay above aquifer. Well screened.
Sand, black	8½	. .do. .	J, ½	D	70	10	L.
Gravel	..	..	J, 1	D	..	..	Reported dd 2 ft bailing 25 gpm. L.
Sand and gravel	59.58	10-25-51	J, 1	D	60	14	Reported dd 3 ft after 3 hr pumping 15 gpm.L.
. . . .do. . . .	20	Reported	J	D	76	18	
Till	20	. .do. .	S, ½	D	76	10	Reported water level low in summer. Penetrated till.
Sand	30	. .do. .	P, ½	D.S	38	12	Well screened.
. . . .do. . . .	24.15	4- 3-51	S	D	24	12	Reported to penetrate till above aquifer.
. . . .do. . . .	45	Reported	J, 1	D	58	10	L.
. . . .do. . . .	44½	. .do. .	HP	NU	..	..	L.
..	..	..	..	..	98	16	
..	..	..	..	..	198	16	
Sand	12	Reported	J, ½	D	78	16	
. . . .do. . . .	58½	. .do. .	J, ½	D	68	16	Reported to yield 10 gpm.
..	28	. .do. .	P	D	46	18	

Table 1.--Records of representative wells in the

Well no.	Owner or tenant	Topog. and altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing	
							Depth to top (feet)	Thickness (feet)
	T. 25 N., R. 5 E.--Cont.							
16B1	C. W. Knutson	U. 520	Dg	53	36	53	..	..
16B2	George Thomas	U. 520	Dr	120	6	120	100	19
16M1	R. M. Essel	U. 350	Dg	23	36	10	15	8
17A1	F. L. Moskowski	U. 425	Dg	17	60	8	..	..
17C1	Dora Ewing	S. 260	Dr	47	6	41	45	2
17C2	. . . .do. . . .	S. 260	Dg	33	30	23	23	10
17C3	Lake Washington Shipyard	S. 230	Dr	115	10-8	105	98	17
17C4	. . . .do. . . .	S. 230	Dr	102	10	..	..	..
17H1	E. M. Riendeau	U. 430	Dr	46	10	46	0	46
17H2	D. Mason	U. 375	Dr	60	6	60	20	40
17J1	City of Kirkland	U. 380	Dr	200	12	179	179	10
17Q1	. . . .do. . . .	S. 230.1	Dr	108	8-6	102	100	8
17Q2	. . . .do. . . .	S. 225	Dr	131	10	111	108	20
17R1	. . . .do. . . .	S. 257.3	Dr	148	8-6	116	137	11
17R2	. . . .do. . . .	S. 218	Dr	134	8	111	..	..
19N1	City of Bellevue	V. 70	Dr	500	10-8	500	..	..
19Q1	Henry Holland	U. 345	Dr	144	6	144	..	..
20F1	City of Bellevue	V. 50	Dr	244	12	144	60	168

Sammamish Lake area, King County, Wash.--Con.

ame(s) Character of material	Water level Below datum (feet)	Date	Pump-type, H. P.	Use	Hard-ness	Chlo-ride	Remarks
..	15	Reported	P, ½	D,S	84	20	
Sand and gravel	60	. .do. .	P, 1	D	..	..	Reported to yield 5 gpm. L.
Gravel and sand	13.17	4-23-51	J, ½	D,S	62	12	Reported to penetrate till.
Gravel	5.41	4-16-51	S, ¾	D	38	12	Reported to penetrate till above aquifer.
Sand	..	..	..	De	..	..	Excessive iron reported in water. L.
Sand, black	..	..	J	D,S	..	..	Reported to penetrate till.
Gravel and sand	39	Reported	T,15	Ind	..	..	Reported dd 17 ft pumping 225 gpm. L.
..	..	..	N	NU	..	..	Abandoned.
Sand	35	Reported	P, ½	D	52	14	
. . . .do. . . .	30	. .do. .	J, ¾	D	62	12	L.
Sand, brown and gravel	..	..	T,30	PS	..	..	Reported to yield 150 gpm. L.
Gravel	66	Reported	T, 7½	PS	..	..	Reported to yield 168 gpm. L. A.
. . . .do. . . .	..	..	T,20	PS	..	..	Reported to yield 350 gpm. L.
. . . .do. . . .	103	Reported	T, 7½	PS	..	..	Reported to yield 200 gpm. L.
. . . .do. . . .	88	. .do. .	T,10	PS	..	..	Reported to yield 350 gpm.
..	..	..	N	De	..	..	Test hole. L.
Sand	..	..	L	NU	..	..	Reported inadequate. L.
Sand and gravel	37	Reported	T,15	PS	..	..	Dd 48 ft after 1 hr pumping 500 gpm. L.A.

Table 1.--Records of representative wells in the

Well no.	Owner or tenant	Topog. and Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing Depth to top (feet)	Water-bearing Thickness (feet)
	T. 25 N., R. 5 E.--Con.							
20K1	L. R. Schaeffer	Ub. 150	Bd	18	24	18	14	4
20Q1	. . . .do. . . .	Ub. 160	Dr	65	8	55	35	30
20R1	J. K. Brisky	S. 175	Dg	54	48	54	50	4
20R2	Christine Ripple	Ub. 150	Dg	22.5	40	10	10	11
21E1	Lars Nelson	U. 250	Dr	90	6	84	80	10
21F1	T. R. Pike	U. 475	Bd	40	24	40	10	30
21J1	C. Hall	U. 380	Dg	15	30	15	1	14
21L1	T. R. Pike	U. 400	Dr	135	6	132	..	..
21L2	H. J. Brown	U. 400	Dr	145	6	145	137	8
21M1	R. V. Holland	S. 200	Dr	68	6	60	64	4
21M2	W. B. Killeen	Ub. 240	Dg	26	30	26	..	..
21N1	E. H. Everett	Ub. 185	Dg	21	36	6	19	2
21N2	V. P. Jeremiah	Ub. 165	Dg	8.5	48	..	..	..
21Q1	M. G. Clark	U. 456	Dr	100	6	100	80	20
22A1	E. Meisner	U. 385	Dg	30	30	30	..	..
22C1	N. J. Wannacott	Ub. 310	Dg	24	36	24	20	4
22D1	Olaf Paulson	Ub. 480	Dg	17	36	..	..	..

Sammamish Lake area, King County, Wash.--Con.

Zone(s) / Character of material	Water level: Below datum (feet)	Water level: Date	Pump: Type, H. P.	Use	Hardness	Chloride	Remarks
Gravel	9.90	9-27-51	C, 1½	D,S	..	..	Reported to penetrate clay.
Sand and gravel	31	Reported	T, 7	PS	..	..	Reported dd 2 ft after 4 hr pumping 110 gpm. L.
Gravel	42.25	4-16-51	J, ½	D	78	20	Reported to penetrate till.
Sand	16.90	. .do. .	C, ½	D,Irr	64	16	Reported to penetrate till.
Gravel	62	Reported	T, ¾	D	82	16	Reported to yield 12 gpm. L.
Sand and gravel	10.6	3- 4-52	..	D	..	..	Dd 3.3 ft after ½-hr pumping 30 gpm. L.
Sand	..	..	J, ½	D	54	12	Reported to penetrate till.
..	..	..	J, 2	D	58	12	
Sand and gravel	117	Reported	J, 1½	D	62	10	Reported to yield 10 gpm. L.
Gravel, coarse	16.72	4-19-51	J, ½	D	42	14	L.
..	0.85	. .do. .	J, ¼	D	28	18	Reported water yellow.
Gravel	7.33	4-16-51	J, ½	D	36	10	Reported to penetrate 19 ft of sand above aquifer.
. . . .do. . . .	1.77	. .do. .	P, ¼	D	40	14	
Sand	67.05	5- 3-51	T, 5	Irr	..	..	Dd 24 ft after ½-hr pumping 50 gpm. L.A.
..	..	..	J, ¼	D	50	10	
Sand, fine	7.58	4- 4-51	J, ½	D	82	12	Reported pumped dry, recovered in 4 hr.
Sand	4.66	4- 3-51	P, ¼	D	26	12	

Table 1.--Records of representative wells in the

Well no.	Owner or tenant	Topog. and altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing Depth to top (feet)	Water-bearing Thickness (feet)
	T. 25 N., R. 5 E.--Con.							
22J1	V. P. Chambers	U, 360	Dg	23.5	48	23.5	..	..
22M1	A. M. Stowle	U, 460	Dg	55	..	55	..	..
22N1	F. E. Miller	U, 350	Dg	54	36	30	30	24
22N2	B. Ford	U, 420	Dg	60	36	60	..	..
22P1	D. B. Pieon	S, 280	Dg	34	36	15	8	26
22Q1	J. Eppig	Ub, 225	Dg	24	36	24	..	..
23C1	Gus Mackie	U, 360	Dg	75	30	..	..	..
23C2	C. L. Nichols	U, 360	Dr	80±	6	80	65	15
23C3	Neze Boyd	U, 365	Dr	88	6	..	78	10
23E1	E. D. Macon	U, 385	Dg	45	48	4	..	..
23F1	J. Parks	U, 365	Dg	22	..	..	..	..
23J1	J. F. Long	U, 380	Dr	94	6	..	..	..
23J2	D. A. Becker	U, 375	Dr	81	6	81	69	12
23L1	A. Daniels	U, 380	Dg	93	36	87	90	3
23M1	H. Franks	U, 320	Bd	27	28	..	..	..
23N2	A. Crawford	U, 310	Dg	16	30	14	..	..
23Q1	Haig Medzegian	U, 390	Dr	103	..	..	..	..
23Q2	R. B. Lee	U, 410	Dr	108	8	108	..	..
23Q3	Gerald Petri	U, 410	Dr	100	6	100	96	4
23Q4	Morrie Estrada	U, 390	Dr	103	6	103	95	8

Sammamish Lake area, King County, Wash.--Con.

Geologic source(s) Character of material	Water level Below datum (feet)	Water level Date	Pump-Type, H.P.	Use	Hardness	Chloride	Remarks
Sand	3.44	4- 5-51	J, 1	D	42	16	
. . . .do. . . .	52	Reported	J, ½	D,S	72	18	
Sand and gravel	38	. .do. .	N	NU	..	..	In state of repair 4/3/51.
Sand	38.36	4- 3-51	J, ¾	D	38	10	
Till	26	Reported	P, 1/6	D	30	10	Reported inadequate.
..	1.5	. .do. .	P, ½	D	30	12	. . . .Do . . . .
..	62.15	8-13-51	J, ½	D	44	16	
Sand and gravel	53	Reported	J, ½	D,S	50	12	L.
. . . .do. . . .	61.74	11- 1-51	J,1½	D	48	16	Reported dd 3 ft after 2 hr bailing 20 gpm. L.
Sand	36.13	4- 5-51	HP	D	26	12	
. . . .do. . . .	7.80	4- 6-51	J, ½	D	60	16	Reported to penetrate till above aquifer.
..	..	..	P, ¾	D,S	32	8	Well screened.
Gravel, coarse	65	Reported	J, 1	D	..	..	L.
Sand	79	. .do. .	J, ½	D	56	7	Reported to penetrate 90 ft of till above aquifer.
..	15.12	4-23-51	J, ½	D	48	5	
..	4.01	. .do. .	J, ½	D	56	8	
Sand	63	Reported	P, ¾	D,S	30	6	
..	45	. .do. .	P, 1½	D,Irr	40	8	Reported to yield 10 gpm. Perforated
Gravel	87.74	11- 5-51	J, ¾	D	..	..	L.
. . . .do. . . .	87	Reported	..	..	..	..	Reported dd 4 ft bailing 10 gpm. L.

Table 1.--Records of representative wells in the

Well no.	Owner or tenant	Topog. and Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing	
							Depth to top (feet)	Thickness (feet)
	T. 25 N., R. 5 E.--Con.							
23N1	G. Sualeng	U. 390	Dg	88	36	74	..	..
24C1	E. W. Wiese	Ub. 150	Dr	132	6	130	..	..
24D1	J. Siepman	Ub. 240	Dg	22	36	12	..	..
24G1	Clarence Breedman	U. 100	Dr	350	6-4	..	..	..
24H1	R. J. Englebry	Ub. 125	Dg	29	48	5	..	..
24L1	W. Gragg	Ub. 225	Dg	8	36	8	..	..
24M1	A. C. Pfunder	U. 360	Dr	94	4	94	84	10
24M2	Frieda Marwood	U. 335	Dg	28	32	..	..	..
24R1	Alex Buckenroth	Ub. 160	Dr	75	6	70	62	13
25B1	A. Coleman	Ub. 350	Dg	16	40	3	..	..
25B2	R. L. Brainard	U. 360	Bd	35	24	35	..	..
25G1	Harry LeGate	S. 330	Dg	21	60	3	21	..
25L1	J. R. Shearer	Ub. 400	Dg	68.5	36	56	..	..
26C1	T. Nelson	U. 360	Dg	65	48	60	..	..
26E1	Highland School	U. 320	Dg	27	48	..	..	..
26F1	L. J. Peterson	Ub. 370	Dg	88	36	85	..	..
26H1	E. H. Andrews	U. 430	Dr	240	6	232	232	8
26J1	J. A. Nelson	U. 425	Dg	36	40	15	3±	34±
26J2	I. E. Poberejnik	U. 425	Dr	135	6	134	..	..
26M1	W. H. Duncan	U. 290	Dg	16	30	16	..	..
27B1	W. W. Chamberlin	S. 225	Dg	20	36	..	..	..

Sammamish Lake area, King County, Wash.--Con.

Zone(s) / Character of material	Water level: Below datum (feet)	Water level: Date	Pump-Type, H. P.	Use	Hardness	Chloride	Remarks
..	74.35	3-29-51	P, ¾	D,S	..	..	
..	40	Reported	J, 1	D	76	5	
Clay	7.28	4-13-51	P, ½	D	74	12	
..	..	..	N	..	..	..	Abandoned. L.
..	4.82	3-29-51	J, ½	D	34	6	Reported inadequate.
..	Flows	. .do. .	..	D	50	10	
Gravel	60.70	9-22-52	J, 1	D	..	..	L.
..	20.54	7-20-51	J, ½	D	56	18	Reported unable to pump dry.
Sand, fine	57	Reported	J, ½	D	60	14	Well screened. L.
Clay, sandy	10	. .do. .	P, ½	D	20	12	
Sand	13.25	8-13-51	P, ½	D,S	72	14	Reported unable to pump dry.
. . . .do. . . .	2.30	3-28-51	P, ½	D	44	8	
Gravel	63.72	. .do. .	J, ¾	D	92	8	Reported can be pumped dry.
..	51.14	4-23-51	P, 1½	D,S	66	14	
..	15	Reported	C, 1	Inst	36	14	Reported dd 3 ft.
Sand and clay	16	. .do. .	J, 1½	D	50	12	Reported cannot be pumped dry.
Sand	..	..	P, 1	D,S	48	12	Reported to yield 15 gpm. L.
Till	4.38	3-27-51	J, ⅓	D	52	18	Reported can be pumped dry.
..	..	Reported	P	D	54	12	Well screened.
..	9.49	3-27-51	S	D	58	16	
..	1.53	4- 5-51	N	NU	36	12	Reported inadequate.

Table 1.--Records of representative wells in the

Well no.	Owner or tenant	Topog. and Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing	
							Depth to top (feet)	Thickness (feet)
	T. 25 N., R. 5 E.--Con.							
27H1	S. W. Des Marais	U. 300	Dg	[illegible]	36	..	..	..
27L1	Richard Johnson	U. 200	Dg	36	36	..	12	24
27M1	E. S. Garretson	S. 150	Dg	11	48	4	10	1
27M2	. . . .do. . . .	Ub. 140	Dg	11	36	11	2	9
27Q1	A. Clark	U. 275	Dg	41	40	10	10	31
28A1	C. A. Elford	S. 300	Dg	15	..	..	..	..
28B1	H. L. Becker	Ub. 350	Dr	90	6	90	86	4
28C1	W. M. Hibbard	S. 200	Dr	213	8	210	..	..
28D1	W. Condway	S. 150	Dg	36	48	36	30	6
28J1	B. Rassmassen	S. 190	Dg	13	36	13	..	..
28L1	T. Suguro	S. 160	Dg	11	40	..	..	..
28M1	M. Shimoyama	Ub. 180	Dr	68	6	68	50	18
28P1	C. C. Burnell	U. 205	Dr	115	6	115	..	..
28Q1	John Weyand	Ub. 180	Dr	117	6	117	93	24
28R1	Charles McComas	V. 120	Dg	11	36	11	..	..
28R2	R. Kothie	V. 120	Bd	35	28	35	..	..
29A1	J. Seibert	Ub. 215	Dg	18	48	..	..	..
29C1	W. E. Lewis	U. 225	Dg	118.5	30	..	..	..

Zone(s) / Character of material	Water level: Below datum (feet)	Water level: Date	Pump-Type, H. P.	Use	Hardness	Chloride	Remarks
..	18	Reported	J, ½	D	154	16	
Gravel and sand	28	. .do. .	J, ½	D	96	12	
Gravel and clay	2.54	3-22-51	N	D	44	10	Reported water red in summer. Gravity system.
. . . .do. . . .	6.24	. .do. .	S	NU			
Sand and gravel	7.00	3-27-51	J, 1	D	92	18	
..	..	..	C	D,S	46	12	Reported to yield 5 gpm.
Gravel	72	Reported	P, 1	D	50	10	Reported dd 7 ft bailing 10 gpm. L.
..	153	. .do. .	T, 2	D	56	10	Reported to yield 10 gpm, iron in water.
Gravel	26	Reported	S, ¼	D	128	12	Reported to penetrate till.
Sand	11	. .do. .	S, ¼	D	52	10	Reported can be pumped dry.
..	6.11	6-11-51	S, ¼	D	166	16	Reported low in late summer.
Gravel	41.55	3-18-52	J, ½	D	62	14	Dd 5 ft after 25 min pumping 6 gpm. L.
. . . .do. . . .	70.15	3-19-51	P, ¾	D	..	..	
Sand and gravel	42.93	10- 8-51	J, 1	D	40	16	Dd 3 ft after 1 hr pumping 7 gpm. L.
Sand	3.08	3-22-51	J, ½	D	32	14	Reported to penetrate till above aquifer.
Gravel	16.87	. .do. .	N	D	..	..	New well.
Sand	5.31	4-17-51	S, ¼	D	102	16	Reported to penetrate till above aquifer.
..	108.30	9-27-51	N	NU	..	..	

Table 1.—Records of representative wells in the

Well no.	Owner or tenant	Topog. and Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing	
							Depth to top (feet)	Thickness (feet)
	T. 25 N., R. 5 E.—Con.							
29N1	D. R. Magin	U, 225	Dg	35	40	30	..	..
29J1	R. Matsuzawa	U, 190	Dg	43	30	..	41	2
29P1	City of Bellevue	U, 170	Dr	1125	24-18-12	1125	530 974	91 141
29R1	R. N. Wright	S, 150	Dg	28	40	..	..	..
32M1	City of Bellevue	V, 70	Dr	565	10-8	..	..	..
32N1	. . . .do. . . .	V, 25	Dr	1055	12	1055	266	200
33A1	R. P. Bakan	S, 125	Dg	14	36	14	..	..
33A2	J. B. Pratt	V, 100	Dg	16	36	16	..	..
33B1	P. Van Kleek	S, 175	Dg	38	32	37	22	15
33C1	Jacob Carlson	U, 210	Dr	117	6	115	..	..
33D1	Emil David	U, 150	Dr	62	6	..	..	..
33D2	George Nicholas	U, 120	Dr	80	6	..	..	..
33E1	J. C. Lamping	S, 175	Dg	75	36	..	..	..
33F1	A. H. Flynn	U, 210	Dg-Dr	104	36-6	104	..	..
33F2	R. Johnson	S, 210	Dg	85	66	85	60	15
33G1	W. Van Kleeck	U, 230	Dr	110	5	107	108	2
33L1	J. Kodani	U, 190	Dg	19	36	..	..	..
33L2	. . . . do	U, 190	Dg	39	36	6	..	..
33M1	R. W. Copeland	U, 200	Dg	71	36-32	..	..	..
33M2	J. W. Stevens	U, 175	Dg	76	36-32	68	..	..
33N1	E. G. Shepherd	S, 50	Dg	28	..	..	..	..

Sammamish Lake area, King County, Wash.--Con.

Zone(s) / Character of material	Water level: Below datum (feet)	Water level: Date	Pump-Type, H. P.	Use	Hardness	Chloride	Remarks
Sand, fine	23.45	4-17-51	P, ½	D	74	16	Reported inadequate.
Gravel	40	Reported	J, ¾	D	64	24	Reported inadequate.
Sand and gravel	120	. .do. .	T,50	PS	..	..	Dd 60 ft after 3 hr pumping 350 gpm. L.
..	16.17	4-17-51	J, ½	D	62	16	
..	37	Reported	N	De	..	..	Test hole. L.
Gravel and sand	7	. .do. .	T,15	PS	..	..	Dd 65 ft after 2 hr pumping 447 gpm. L. A.
..	2.94	3-21-51	S, ¼	D	52	14	
Gravel	9.63	3-22-51	S, ½	D,S	36	14	
. . . .do. . . .	28.08	3-20-51	J, ½	D	76	14	L.
Sand and gravel	..	..	P, ¾	D	62	14	
..	13.58	3-14-51	J, ½	D	94	14	
..	..	..	J, ¾	D,Irr	106	10	
..	72	Reported	N	NU			
Gravel	80	. .do. .	J,1½	D	68	10	Supplies two families.
. . . .do. . . .	80	. .do. .	J, ½	D	116	14	L.
Gravel, coarse	100.00	3-19-51	J,1	D	..	..	L.
..	1.64	3-20-51	N	S	32	10	Reported dry in summer.
..	..	..	N	NU	..	..	Dry
..	64.46	3-21-51	P,1	D,S	52	12	
Sand and gravel	68.05	3-22-51	P, ½	NU	..	..	
..	4.26	3-14-51	J, ¼	D	82	30	

Table 1.--Records of representative wells in the

Well no.	Owner or tenant	Topog. and Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing	
							Depth to top (feet)	Thickness (feet)
	T. 25 N., R. 5 E.--Con.							
33N2	Paul Medgard	S. 50	Dg	3[illegible]	60	6	..	..
34C1	H. J. Bister	U. 260	Dg	21	48	4	3	18
34G1	Bud Stringfellow	U. 280	Dr	46	6	46	38	8
34G2	. . . .do. . . .	U. 280	Dr	63	6	60	40	20
34H1	Roy Krontz	U. 275	Dg	22	30	22	..	..
34J1	C. E. Allen	U. 275	Dg	26	36	26	22	4
34P1	L. Jackson	U. 290	Dg	50	36	50	30	20
34P2	R. K. Maus	U. 290	Dr	160	6	..	..	..
34Q1	E. D. Orians	U. 290	Dr	38	6	38	31	7
35A1	G. S. Nelson	U. 440	Dg	86	36	86	..	..
35A2	Al Marilley	U. 430	Dg-Dr	209	36-6	209	..	..
35A3	R. Rassmusser	U. 435	Dr	183	8	..	155	28
35C1	G. M. Revelich	U. 325	Dg	45	40	..	..	..
35D1	D. Naubauer	U. 250	Dg	7	36	7	1	6
35M1	L. Aries	U. 300	Dg	22	48	22	..	..
35M2	. . . .do. . . .	U. 300	Dr	56	6	50	..	..

Sammamish Lake area, King County, Wash.--Con.

Zone(s) / Character of material	Water level: Below datum (feet)	Water level: Date	Pump: Type, H. P.	Use	Hardness	Chloride	Remarks
Sand	24	Reported	S, ½	D	72	32	Reported to penetrate clay and till.
Sand and gravel	6.87	3-22-51	N	D	32	12	Siphon to house.
Sand	22.02	9-20-51	J, 1	D	74	22	Reported dd 10 ft pumping 10 gpm. L.
. . . .do. . . .	25.31	9-28-51	N	D	..	..	L.
..	9.40	3-27-51	J, ½	D	44	16	Reported inadequate for irrigation.
Sand	15	Reported	J, 1	D,S	58	14	Reported to penetrate 22 ft of till above aquifer.
. . . .do. . . .	38	. .do. .	J, ½	D	62	12	L.
..	..	..	J, 1	D	68	8	Reported inadequate for irrigation.
Sand and gravel	16	Reported	..	D	..	..	L.
Sand	..	..	J, 1	D	38	14	
Sand and gravel	..	..	P, ¾	D	..	10	L.
Gravel and sand	155	Reported	N	NU	..	..	L.
Sand, fine	45½	. .do. .	P	D,Irr	40	8	Reported can be pumped dry.
Sand, hard	0.50	3-27-51	S, ½	D	42	12	Reported dd 6 ft. Recovers in 24 hr.
Sand	5.36	. .do. .	J, 2½	D	30	8	Supplies seven families. Reported can be pumped dry.
..	5.05	3-27-51	N	NU	..	..	

Table 1.--Records of representative wells in the

Well no.	Owner or tenant	Topog. and Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing	
							Depth to top (feet)	Thickness (feet)
	T. 25 N., R. 6 E.							
5K1	I. W. Mason	U. 380	Dr	47	6	47	47	..
5K2	. . . .do. . . .	U. 380	Dg	23	36	..	..	..
5Q1	F. J. Nielsen	U. 380	Dr	339	6	..	..	..
6K1	R. Windsor	V. 70	Dg	21	36	21	1	20
6F1	T. Brown	V. 59	Dg	13	36	13	1	12
6G1	L. Rosford	V. 50	Bd	6	4	6	..	..
7D1	Dan Conley	V. 50	Dg	9	36	9	..	..
7H1	John Landwater	Ub. 100	Dr	287	6	281	260	27
7M1	C. A. Morey	V. 35	Dg	9	36	9	..	..
7N1	E. M. Iverson	T. 35	Dg	13	60-24	12	..	..
8G1	L. C. Oman	U. 380	Dg	131	48	..	..	..
8Q1	M. O. Kallin	U. 350	Dg	130	32	105	108	22
9G1	J. F. Blashet	U. 475	Dr	260	4	260	248	12
9H1	J. W. Hall	U. 480	Dg	10	40	10	..	..
9H2	J. V. Patterson	U. 500	Dg	12	36	12	..	..
9H3	Tom Sadlier	U. 500	Dn	..	1½	..	..	..
15L1	Bill Burger	T. 200	Dn	18	2	18	..	..
16L1	M. Y. Carlson	S. 115	Dg	16	40	16	14	2
16Q1	Carl Larson	T. 140	Dg	55	36	55	35	20
18Q1	W. Quackenbush	T. 90	Dr	286	4	..	..	..

Sammamish Lake area, King County, Wash.--Con.

...ene(s)	Water level		Pump-	Use	Hard-	Chlo-	Remarks
Character of material	Below datum (feet)	Date	Type, H. P.		ness	ride	
..	3	Reported	J, ½	D	50	10	Reported to penetrate till above aquifer.
..	10.45	10-10-52	N	NU	..	..	
..	205.07	. .do. .	P, 1	D	42	10	Reported to penetrate 80 ft of till.
Gravel and sand	19.07	9-23-52	C, 1	D	..	..	Reported dd ½ ft after 15 min pumping 100 gpm.
. . . .do. . . .	11.80	8-23-51	C, 1	D,S	31	16	Dd 0.35 ft after 1 hr pumping 60 gpm.
..	..	..	S, ½	D	31	14	
..	4.95	5-22-51	S, ½	D	66	12	
Gravel	100	Reported	P, 1½	D,S	70	18	Well screened. L.
..	7.02	5-28-51	C, 2	D	36	14	Supplies 21 families.
..	10.09	5-22-51	J, ½	D,S	46	16	
Sand	125.57	12-17-51	P, ¾	D	62	8	
. . . .do. . . .	123.83	11- 9-51	P, ¾	D	66	10	L.
Gravel and sand	..	..	P,1	D,S	60	12	L.
..	6.94	10-10-52	S, ½	D	68	7	
..	9.60	. .do. .	N	D	..	..	Under construction 10-10-52.
..	..	..	P,1	D,S	60	12	L.
..	..	..	S	D	42	8	
Gravel and sand	14.51	11-20-51	C, ½	D	48	10	Supplies two families.L.
. . . .do. . . .	51	Reported	J, ½	D	52	10	L.
..	Flows	5-22-51	C, ½	D	72	16	Supplies five families. Odor of H_2S.

Table 1.--Records of representative wells in the

Well no.	Owner or tenant	Topog. and Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing	
							Depth to top (feet)	Thickness (feet)
	T. 25 N., R. 6 E.--Con.							
19H1	Weber Point Community	T. 40	Dr	200	6	200	..	..
19L1	A. D. Loreman	S. 50	Dg	34	30	..	..	..
19M1	G. Sieptman	Ub.150	Dg	42	48	..	..	..
20K1	J. W. Carlson	T. 50	Dg	40	36	..	..	..
20K2	W. L. Grange	T. 50	Dr	108	6	102	103	5
22C1	R. H. Lawson	V. 130	Dr	145	10	..	129	16
23D1	Mary Trunkhill	V. 150	Dg	16	36	..	1	15
23M1	R. L. Vance	S. 275	Dg	37½	36	..	28	9+
26A1	Harold Haakenson	V. 150	Dg	9	36	9	1	8
27R1	A. R. Wilson	U. 415	Dr	137	6	..	..	..
28L1	Leo Hill	U. 500	Dg	20	36	8	18	2
30B1	R. A. Strout	S. 150	Dr	88	6	88	84	4
30C1	H. G. Wheeler	Ub.170	Dr	170	6	150	117	33
32F1	James Hart	V. 60	Dr	96	6	..	..	..
32L1	H. C. Holo	V. 70	Dr	55	8	50	..	..
32R1	C. Johnson	U. 390	Dg	37	30	..	..	..
32R2	Harry Paul	U. 390	Dg-Dr	188	6	188	103	85
33B1	B. L. Peterson	U. 325	Dg	30	30	..	..	..

Sammamish Lake area, King County, Wash.--Con.

Zone(s) / Character of material	Water level: Below datum (feet)	Water level: Date	Pump-Type, H. P.	Use	Hardness	Chloride	Remarks
Sand, fine	Flows	5-22-51	C,1	D	62	14	Supplies 17 families. Reported to flow 10 gpm.
"	15.71	7-17-51	J, ½	D	"	"	
"	8.31	3-29-51	S, ¼	D,Irr	62	10	Reported inadequate.
"	"	"	J, ½	D	90	18	
Sand	68	Reported	J, ½	D	94	16	Reported to yield 20 gpm. L.
Gravel	7	" do. "	J,1	D, S Irr	"	"	Reported to yield 200 gpm. L.
Sand and gravel	10.84	11-20-51	S, ¼	D	34	10	
Sand, medium	30	Reported	P	D	122	12	
Sand and gravel	½	" do. "	S, ¼	D	48	14	
Gravel	"	"	P,1	D	38	8	Reported to penetrate till above aquifer. Reported to yield 10 gpm.
Sand and gravel	14	Reported	S, ¼	D	46	12	
" do.	63	" do. "	J, ¾	D	96	12	Reported no dd bailing 35 gpm. L.
Gravel, cemented	60	" do. "	J, ¾	D	60	10	L.
"	Flows	7- 5-51	J, ½	D	76	12	Estimated flow 2 gpm.
Sand	5	Reported	C	D	98	16	Well screened.
"	"	"	J, ¼	D,S	26	10	
Sand and gravel	156	Reported	"	D	"	"	Reported dd 12 ft bailing 15 gpm. L.
Gravel	1.17	12- 3-51	J, ½	D,S	50	14	Reported to penetrate till above aquifer.

Table 1.--Records of representative wells in the

Well no.	Owner or tenant	Topog. and Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing	
							Depth to top (feet)	Thickness (feet)
	T. 25 N., R. 6 E.--Con.							
33E1	Jake Pawlaczyk	U, 512	Dg	28	50	..	..	..
33H1	Pearl Churchwell	U, 340	Dg	18	48	2	16	2
33J1	Pine Lake Water Co.	U, 430	Dr	315	6	315	215	100
33N1	P. C. Clemmons	U, 390	Dg	152	60	8	..	..
33N2	K. O. McCaskey	U, 410	Dg	19	48	..	..	..
34C1	John Marinsic	U, 390	Dg	11	48	..	..	..
	T. 25 N., R. 7 E.							
6R1	Carnation Farm	V, 63	Dr	630	16	630	580	50
18D1	J. W. Guthrie	S, 250	Dr	101	6	101	95	6
20N1	Elmer Harper	S, 450	Dg	45	48	45	40	5
22G1	Girl Scout Camp	Fp, 100	Dr	60	..	..	..	..
28Q1	Ralph Scheidegger	Fp, 75	Dg	25	36	..	..	..
29H1	Peter Angerer	Fp, 75	Dr	190	6	..	..	..
31F1	Stan Little	S, 120	Dg	12	72	..	..	..
32B1	Peter Angerer	Fp, 75	Dg	18	48	18	..	..
33G1	Ray Robertson	Fp, 75	Dg	21	30	21	..	..
33M1	Harry Peterson	Fp, 75	Dg	20	36-30	20	..	..
33N1	W. N. Crable	Fp, 75	Dn	25	1½	25	..	..

Lake Sammamish area, King County, Wash.--Con.

Zone(s) / Character of material	Water level: Below datum (feet)	Water level: Date	Pump-Type, H. P.	Use	Hardness	Chloride	Remarks
Sand	10	Reported	J, ⅓	D	38	14	Reported to penetrate till.
Sand and gravel	2.25	11-28-51	S	D	12	8	. . . .Do . . . .
Gravel, cemented	250	Reported	T, 7½	D,S	60	16	Reported dd 5 ft pumping 30 gpm, supplies 12 families. L.
Gravel	142	. .do. .	P, 1	D	74	14	Reported to penetrate till above aquifer.
Sand and gravel	7.30	7-10-51	S, ¼	D	52	14	Reported inadequate.
Till	6.00	11-27-51	S	D	28	22	
Gravel and sand	Flows	8-10-51	N	D, S	..	..	Reported to flow 284 gpm. L.
Gravel	20	Reported	P	D	58	8	L.
. . . .do. . . .	42	. .do. .	N	NU	..	..	L.
..	40	. .do. .	T, 1½	Inst	..	..	
..	..	..	S, ⅓	D	32	12	
..	3.78	12-18-51	C, ½	NU	..	..	Reported inadequate.
..	1.73	11-19-51	S, ¼	D, S	74	12	
..	8	Reported	C, ⅓	D, S	182	8	
..	1.67	12- 3-51	J, ½	D	78	16	
..	14.02	11-28-51	J, ½	D, S	48	14	
Sand and gravel	..	..	S, ½	D, S	50	10	

Table 1.--Records of representative wells in the

Well no.	Owner or tenant	Topog. and Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing	
							Depth to top (feet)	Thickness (feet)
	T. 26 N., R. 4 E.							
1B1	K. W. Jennings	S, 150	Dg	7	36-30	7	..	..
1C1	F. R. Rucker	S, 125	Dg	16	36-30	16	..	..
1C2	J. P. Skinner	S, 100	Dg	11	32	11	..	..
1D1	D. R. Docksteader	Ub, 125	Dg	12	30	12	2	10
1E1	Henry LaFond	S, 100	Dr	119	6	119	110	9
1F1	J. M. Kastler	S, 75	Dg	18	30	18	..	..
1G1	L. M. Lewis	S, 75	Dg	12	30	12	..	..
1H1	E. W. Ramsey	S, 225	Dg	18	72	..	..	..
1K1	L. L. Dungan	S, 40	Dr	43	6	44	..	..
1L1	I. McComas	V, 25	Dn	14	2	14	..	..
1M1	J. F. Coter	S, 75	Dg	23	30	..	..	..
1P1	W. J. Hood	V, 25	Dn	..	2	..	..	..
2A1	W. K. Lee	Ub, 100	Dg	25	30	25	..	..
2B1	N. J. Nicholas	Ub, 125	Dg	58	60	5	..	..
2D1	George Batterson	S, 300	Dr	80	6	75	..	..
2E1	R. Nurell	Ub, 270	Dg	16	30	..	..	..
2E2	George Senty	Ub, 250	Dr	232	6	225	230	2+
2F1	J. [illegible]. Yeamen	Ub, 225	Dg	11	28	10	..	..
2F2	C. Kleba	Ub, 190	Dg	11	30	11	11±	1±

Sammamish Lake area, King County, Wash.--Con.

Zone(s) Character of material	Water level: Below datum (feet)	Water level: Date	Pump: Type, H. P.	Use	Hardness	Chloride	Remarks
Sand	0.99	6- 8-51	N	D	48	14	Siphon to house.
. . . .do. . . .	4.39	. .do. .	S, ¼	D	60	14	
. . . .do. . . .	3.98	. .do. .	S, ¼	D	46	10	Reported to penetrate till above aquifer.
Sand and gravel	8.19	. .do. .	C, ¼	D, S	80	16	Reported till beneath aquifer.
Gravel and sand	Flows	6- 7-51	S, ¼	D	94	14	Estimated to flow less than 1 gpm. L.
..	9.23	6- 8-51	S, ¼	D	82	12	
Sand	2.91	7- 2-51	S, ¼	D	78	14	Reported to penetrate till above aquifer.
Till	..	..	N	D	80	16	Siphon to house. H_2S odor.
..	0.82	6- 8-51	S, ⅓	D	76	12	Flows intermittently.
..	4.55	. .do. .	S, ¼	D,S	124	26	
..	15.53	6- 7-51	S, ¼	D	30	10	
..	..	..	C, ⅓	D,S	76	16	
..	20	Reported	C, ½	D	106	16	
..	25.89	7- 6-51	J	D	78	12	Reported low in summer.
..	..	..	J, ¼	D	78	18	Reported to penetrate till above aquifer. Screened.
..	9.18	6- 5-51	S, ¼	D,Irr	40	16	
Gravel	105	Reported	P, 3	D	62	14	Supplies three families. L.
..	2.35	6- 7-51	S, ¼	D	42	12	Reported inadequate.
Sand and clay	3.64	. .do. .	S, ¼	D, S	38	12	Reported to penetrate interbedded sand and clay.

Table 1.--Records of representative wells in the

Well no.	Owner or tenant	Topog. and Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing	
							Depth to top feet)	Thick-ness (feet)
	T. 26 N., R. 4 E.--Con.							
2J1	H. H. Woods	S, 125	Dg	9	36	..	..	..
2M1	C. H. Snow	S, 225	Dg	16	60	..	..	..
12D1	F. H. Ellis	T, 55	Dn	31	1½	31	25	6
12F1	P. Swenson	S, 35	Dr	32	6	..	..	..
12J1	E. M. Jones	V, 20	Dr	40	6	40	35	5
12M1	R. A. Pierce	T, 25	Dg	12	8	..	..	..
12Q1	E. V. Cooper	Ub, 200	Dg	30	48	30	..	..
13A1	C. O. Wintermute	S, 375	Dg	15	30	1	..	..
13A2	R. Underwood	Ub, 250	Dg	15	30	15	3	12
13F1	I. K. Schlamp	Ub, 425	Dr	299	6	..	..	..
13G1	R. M. Metheny	U, 430	Dg	62	30	62	20	42
13J1	H. Gagne	U, 520	Dg	62	30	58	..	..
13J2	F. Watkins	U, 520	Dg	50	32	50	2	48
13M1	H. Rohde	S, 325	Dg-Bd	31	30	15	..	..
13M2	M. Augustine	S, 380	Dg	49	40	6	51±	1±
13Q1	C. Dod	U, 450	Bd	26	30	26	..	..
13R1	P. W. Rough	U, 520	Dg	22	34	21	20	2
24A1	C. A. Palmer	U, 490	Dg	14	48	..	6	8

Sammamish Lake area, King County, Wash.--Con.

zone(s) Character of material	Water level Below datum (feet)	Water level Date	Pump-Type, H. P.	Use	Hardness	Chloride	Remarks
..	1.71	6- 7-51	N	D, S	56	10	Siphon to house.
..	4.90	. .do. .	S, ¼	D	70	18	Reported inadequate.
Sand	26	Reported	P, ½	D	72	14	Reported to penetrate sand and gravel.
..	..	..	J,1	D	82	28	Supplies three families, cafe and tavern
Sand and gravel	1	Reported	C, ¼	D	..	..	Reported dd 10 ft pumping 15 gpm. L.
..	5.44	6- 4-51	C,25	D,Irr	..	..	Supplies 78 families. L.
..	24	Reported	J, ½	D	..	..	Reported inadequate.
..	8.07	6- 4-51	S, ¼	D	78	20	. . . . Do . . . .
Till	..	..	S, ¼	D	124	24	. . . . Do . . . .
Gravel	..	..	P, ¾	D	98	16	
Sand	60	Reported	P, ½	D,Irr	58	16	L.
..	56.53	5-31-51	P	D	..	..	
Sand and gravel	39	Reported	J, ½	D	48	18	
Sand	..	..	J, ½	D	110	18	Reported to penetrate clay and sand.
Gravel	34.44	5-31-51	J	D	64	8	Supplies one family, cafe, and grocery. Reported to penetrate 51 ft of clay.
..	9.37	6- 1-51	J, ½	D,Irr	102	28	Supplies two families.
Gravel	6.71	5-31-51	J, ¼	D,S	70	18	Supplies two families. Reported to penetrate till above aquifer.
Till	5	Reported	S, ¼	D	56	22	Reported low in fall.

Table 1.--Records of representative wells in the

Well no.	Owner or tenant	Topog. and Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing	
							Depth to top (feet)	Thickness (feet)
	T. 26 N., R. 4 E.--Con.							
24A2	E. H. Good	U, 475	Dg	11	48	..	2	9
24B1	E. Snyder	U, 460	Dr	101	..	..	..	..
24C1	A. J. Menard	U, 450	Dr	91	6	90	60	30
24G1	H. Lister	U, 440	Dg	70	36-30	55	64	6
24H1	W. Beckman	U, 400	Dr	118	4½	118	72	46
24M1	L. B. Walls	U, 425	Dg	69	30	70	..	..
24Q1	G. R. Dempsey	S, 310	Dg	15	72-60	8	..	..
24Q2	C. R. Burnside	S, 350	Dg	11.5	36	12±	..	..
25H1	E. R. Bertram	Ub, 400	Dg	40	40	40	37	3
25K1	A. Hammar	S, 310	Dg	19	48	7	..	..
25K2	H. McEvers	S, 325	Dg	17	40	..	..	..
36C1	Water Dist. no.41	S, 65	Dr	73	6	68	50	23
	T. 26 N., R. 5 E.							
1L1	E. H. Jones	U, 375	Dr	82	6	82	30	52
1P1	F. A. Mack	U, 325	Dg	40	36	..	..	..
1Q1	J. H. Dittemore	U, 300	Dg	12	60	..	..	..
1R1	A. S. Haggard	U, 255	Dg	11	36	..	..	..
1R2	S. C. Calkins	U, 260	Dr	97	6	..	..	..
3L1	L. F. Duvall	V, 100	Dn	30	1½	..	..	..
3N1	E. H. Waugh	T, 110	Dg	60	36	..	1	59

Sammamish Lake area, King County, Wash.--Con.

Zone(s) / Character of material	Water level: Below datum (feet)	Water level: Date	Pump-Type, H. P.	Use	Hardness	Chloride	Remarks
Till	4.79	5-31-51	J, ½	D	..	..	Reported low in summer.
..	..	..	J, ¾	D	38	14	Supplies two families.
Sand	..	..	P, 1½	D,PS	56	28	Supplies one family and North Seattle Airport. Reported to yield 16 gpm. L.
Gravel and sand	62.97	6- 1-51	J, ½	D, S	66	16	L.
Gravel	105	Reported	P, ½	D	60	16	L.
..	60.72	5-29-51	J, 1	D	62	12	Supplies two houses.
Till	5.15	. .do. .	S, ½	D, S	70	16	Reported low in late summer.
. . . .do. . .	10.13	10-26-51	S, ¼	D	66	16	
Gravel and sand	34½	Reported	J, ½	D	50	14	L.
Gravel	7.15	5-29-51	S, ½	Irr	46	18	Reported to penetrate till above aquifer.
..	5.20	. .do. .	N	NU			
Sand	Flows	7-12-51	N	NU	..	..	Static water level 0.60 ft above land-surface datum 7-12-51. L.
Gravel and sand	67	Reported	J, ½	D	54	12	L.
..	34	. .do. .	P, ½	D	54	16	
..	8	. .do. .	S, ¼	D	64	7	
..	6.64	10- 2-52	S, ¼	D	62	12	
..	Flows	10- 7-52	C, ¼	D	42	12	
..	..	..	S, ¼	D	58	16	Reported iron in water.
Sand and gravel	41.5	..	P, ¾	D	..	..	Reported not potable.

Table.--Records of representative wells in the

Well no.	Owner or tenant	Topog. and Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing	
							Depth to top (feet)	Thickness (feet)
	T. 26 N., R. 5 E.--Con.							
3P1	G. Cassissa	V, 90	Dg	8	30	8	..	..
3R1	C. L. Wight	S, 300	Dg	35	36	33	2	33
4R1	W. W. Updike	Ub, 150	Dg	30	36	30	..	..
5B1	R. E. Montagne	T, 75	Dg	6	72	3	1	5
5E1	Bothell Water District	U, 245	Dr	224	8	224	182	38
5E2	. . . .do. . . .	U, 245	Dr	230	8	227	201	26
5K1	J. A. Herseth	S, 180	Dr	127	6	100	96	8
6B1	C. L. Johnson	T, 150	Dr	100	6	100	98	2
6E1	L. N. Rindspach	U, 260	Dg	8	30	..	5±	4±
6F1	M. E. Whisennand	U, 260	Dg	13	40	..	..	..
6J1	C. O. Swanson	V, 100	Dg	20	30	16	..	..
6K1	O. J. Cornwall	U, 200	Dg	25	40	25	3	22
6N1	Guy Williams	U, 245	Dg	10	36	10	6	4
6P1	V. L. Barnes	S, 210	Dr	57	6	57	57	..
6Q1	Marlin and Marlin	T, 110	Dr	139	6	139	130	9
7C1	R. W. Laird	U, 210	Dr	97	4	91	..	..
7D1	L. Gualtieri	U, 240	Dr	280	6	274	..	..
7F1	D. J. Dempsey	Ub, 175	Dr	65	6	65	61	4
7F2	D. K. Graham	S, 190	Dg	6	48	6	..	..
7G1	Bothell Water Dist.	S, 140	Dr	462	6	462	183	34
7J1	K. T. Lynch	S, 50	Dg	8	30	..	..	..

Sammamish Lake area, King County, Wash.--Con.

Zone(s) / Character of material	Water level: Below datum (feet)	Water level: Date	Pump-Type, H. P.	Use	Hardness	Chloride	Remarks
..	5.04	9-14-51	S, ¼	D	..	..	
Sand and gravel	30.13	. .do. .	N	D	..	..	New well.
..	25.04	. .do. .	J, ¼	D	44	22	
Sand, clayey	3.60	8-31-51	S, ¼	D	64	12	
Sand and gravel	180	Reported	T,20	PS	..	..	Dd 17½ ft after 15 min pumping 200 gpm. L.A.
. . . .do. . . .	180	. .do. .	T,20	PS	..	..	L.
. . . .do. . . .	86.99	8-31-51	N	D	..	..	Reported dd 13 ft after 1 hr pumping 5 gpm.L.
Sand	16	Reported	J, ½	D	78	14	Reported dd bailing 15 gpm. L.
Sand and gravel	3.82	7-24-51	S, ¼	D, S	90	14	Reported to penetrate till.
..	4.55	. .do. .	S, ⅓	D	54	10	
Sand	13.10	8-30-51	S, ¼	D	50	18	
Till	16.18	8-28-51	C, ¼	D	96	20	Reported inadequate.
Sand clayey	4.49	7-24-51	S, ¼	D	36	14	Reported to penetrate till.
Gravel	5	Reported	J	D	..	..	L.
Sand	12.33	8-31-51	N	D	..	..	L.
..	20	Reported	J, ¾	D	..	..	Well screened.
Sand, fine	180	. . do . .	T, 1	D,S	76	12	
Sand and gravel	35	. . do . .	J, ½	D	46	16	Reported dd 4 ft after 2 hr pumping 10 gpm.L.
..	Flows	7-30-51	S, ¼	D	38	16	
Gravel,cemented	..	..	N	De	..	..	Reported inadequate. L.
Sand and gravel	2.40	7-30-51	S, ¼	D			

Table 1.--Records of representative wells in the

Well no.	Owner or tenant	Topog. and Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing	
							Depth to top (feet)	Thickness (feet)
	T. 26 N., R. 5 E.--Con.							
7J2	M. E. Haller	S. 50	Dr	84	6	84	24	..
8E1	Bothell Water Dist.	V. 35	Dg	36	36	..	..	..
8E2	. . . .do. . . .	V. 35	Dr	160	..	..	135	25
8E3	. . . .do. . . .	S. 50	Dr	56	8	56	50	3
8K1	H. A. Newman	V. 35	Dg	40	48	..	..	..
8P1	L. K. Hill	S. 390	Dg	22	30	..	..	..
8P2	Robert Fuller	S. 450	Dg	8	24	..	..	..
9F1	North Creek Oil & Gas Co.	Fp. 25	Dr	1208	12-6	..	434	218
9F2	Jim Delvecchio	T. 30	Dg	35	36	30	..	..
9L1	Floyd Grater	S. 100	Dg.	15	..	13	13	2
9L2	L. McKee	T. 60	Dr	157	6	..	..	..
9N1	Roy Downs	S. 200	Dg	26	30	20	21	5
9R1	Buster Brown	S. 100	Dr	332	6	330	325	7
10B1	Scott E. Bird	S. 100	Dg	7	30	..	..	..
10D1	[illegible] Langley	S. 125	Dg	56	36	56	..	..
10E1	[illegible] Des Marteau	T. 50	Dg	17	36	17	..	..
10F1	Lowell DeYoung	T. 80	Dr	..	..	..	..	..
10F2	F. J. Cass	T. 75	Dg	23	30	..	..	..
10L1	Ashley Nicholes	V. 56	Dg	12	36	..	3	9
10L2	Flora Brown	V. 60	Dg	24	36	24	..	..

Sammamish Lake area, King County, Wash.--Con.

Zone(s) / Character of material	Water level: Below datum (feet)	Water level: Date	Pump-Type, H. P.	Use	Hardness	Chloride	Remarks
Sand, fine	Flows	7-30-51	J, ½	D	98	18	Reported dd 14 ft after 4 hr pumping 10 gpm. L.
Sand	9.31	6-22-51	T	NU	..	..	Reported to yield 40 gpm.
..	..	..	N	De	..	..	Test hole. L.
Sand and gravel	Flows	6-22-51	N	NU	..	..	Reported to yield 100 gpm. Failed. L.
Sand	6.15	. .do. .	S	D	72	16	
..	7.08	5-10-51	S, ¼	D	68	16	
..	3 44	. .do. .	S, ¼	D	54	14	Reported low in summer.
Sand and gravel	Flows	8-29-51	N	NU	..	..	Oil test. L.
Gravel	25.60	9- 3-51	J ¾	D	106	22	Reported to penetrate clay.
Sand	11.95	6-18-51	S, ¼	D,S	90	16	L.
..	40	Reported	J, ¾	D	98	28	
Sand	12.03	6-18-51	S, ¼	D	90	16	L.
. . . .do. . . .	45	Reported	P, ¾	D,S	..	..	L.
Sand and gravel	4.43	9-11-51	C, ½	D	36	14	
. . . .do. . . .	48½	Reported	P, ½	D	40	14	
Gravel	8.59	9-14-51	J, ½	D	70	40	Reported clay over aquifer.
..	..	..	J, 2	D	74	14	
Sand	17.58	9-11-51	S, ½	D	66	18	
Sand, fine	9.75	. . do . .	S, 1	D,Irr	28	10	
..	..	..	S, ¼	D,S	30	18	Supplies two families.

Table 1.--Records of representative wells in the

Well no.	Owner or tenant	Topog. and altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing	
							Depth to top (feet)	Thickness (feet)
	T. 26 N., R. 5 E.--Con.							
10Q1	Vince Kaelin	V. 65	Dg	22	30	22	..	..
11A1	J. S. Simonsen	U. 350	Dg	18	30	18	..	..
11C1	C. E. Patterson	U. 490	Dg	35	48	..	..	..
11J1	W. E. Searight	U. 520	Dg	33	30	..	..	..
11K1	Paul Garret	U. 550	Dr	285	..	..	..	..
11K2	W. E. Napper	U. 540	Dg-Dr	317	6	317	..	..
11M1	Robert Edelbrock	S. 300	Dg	90	36	65	..	..
11Q1	L. M. Rowan	U. 440	Dg	180	30	180	..	..
12A1	L. Casper	U. 250	Dg	17	36	..	..	..
12A2	C. Vert	U. 275	Dr	34	6	34	..	..
12C1	M. J. Rojers	U. 290	Dg	20	40	..	..	..
12C1	G. L. Larson	U. 375	Dr	112	4	..	..	..
12D2	E. N. Van Nay	U. 340	Dr	65	4	65	..	..
12K1	W. H. Meisenheimer	S. 300	Dg	22	48	..	..	..
12P1	Frank Zelinka	S. 410	Dg	20	40	15	15	5
12Q1	D. C. Rees	S. 325	Dg	22	30	..	17	5
13M1	G. B. Peterson	U. 530	Dg-Dr	274	4	270	250	24
13N1	Frank Beaty	U. 450	Dr	230	8-6	211	190	16½
13P1	A. H. Landry	U. 530	Dg-Dr	225	6	..	..	..
14A1	A. & M. Rundquist	U. 550	Dr	309	6-5	297	279	24

Sammamish Lake area, King County, Wash.--Con.

...ene(s)	Water level		Pump-	Use	Hard-	Chlo-	Remarks
Character of material	Below datum (feet)	Date	Type, H. P.		ness	ride	
Sand	18.29	9-18-51	C, ½	D,S	42	14	Reported till under aquifer.
....do....	14.37	11-13-51	S, ¼	D	22	16	Reported low in September.
..	18.41	10-11-51	P, ¾	D	58	20	Reported to penetrate till.
..	25.28	11- 6-51	P, ¼	D,S	70	18	....Do....
..	..	..	P, 1	D	56	14	Supplies two families.
Gravel	310	Reported	P, 1	D,S	36	14	L.
..	79.99	9-11-51	P, ½	D	..	..	
Sand and gravel	177	Reported	P, 2	D	68	14	L.
Sand	8.22	10- 2-52	S, ¼	D	98	14	
..	Flows	10- 7-52	C, ¼	D	44	10	Flows 3 gpm.
Sand and gravel	16.46	11- 9-51	S, ¼	D	54	14	
..	..	..	P, ¾	D	60	18	
Gravel	32±	11-13-51	J, ½	D	..	..	Tested, impure.
Sand	15.66	11- 6-51	J, ½	D	42	16	Reported to penetrate till.
....do....	16.19	11- 9-51	J, ½	D	..	..	.... Do ....
....do....	20	Reported	N	NU	..	..	Under construction 11-9-51.
....do....	224	..do..	P, 1	D, S	64	14	L.
....do....	190½	..do..	P, 1	D	78	16	Reported dd 4½ ft pumping 7½ gpm. L.
..	..	..	P, 2	D, S	66	12	
Sand	279.57	11- 9-51	T, 3	D	..	..	L.

Table 1.--Records of representative wells in the

Well no.	Owner or tenant	Topog. and Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing	
							Depth to top feet)	Thickness (feet)
	T. 26 N., R. 5 E.--Con.							
14G1	E. E. Lindstrom	U, 440	Dr	209	6	..	..	..
14H1	E. F. Davis	U, 475	Dr	230	6	224	..	..
14K1	John Campbell	U, 420	Dg	90	36	..	2	88
14K2	L. E. Page	U, 430	Dg	218	60-36	..	..	..
14K3	Chris Lawty	U, 350	Dg	24	36	16	5	19
14L1	Julian Del Gado	U, 340	Dg	109	36	..	..	..
15L1	E. W. Carlberg	T, 70	Dg	12	30	12	6	6
15Q1	M. W. Schenk	Fp, 40	Dn	..	1½	..	..	..
15R1	R. B. Fosburgh	V, 60	Dr	65	6	65	3	62
15R2	Gus Peterson	V, 40	Dn	16	1½	16	..	..
16A1	Harry Teagarden	Fp, 40	Dg	14	48	14	..	..
16B1	G. W. Anderson	U, 350	Dg	13	24-30	8	1	12
16C1	L. S. Wren	U, 350	Dg	22	36	23	1±	22±
16D1	R. L. Downing	S, 320	Dg	85	36	..	..	..
16E1	C. J. Grossman	U, 290	Dg	53	72	6	51	3
16G1	C. F. Rice	U, 355	Dg	28	30	..	21	6
16L1	O. Marrier	U, 300	Dg	43	60	6	1	42
16R1	S. L. Banister	U, 390	Dg	15	60	..	1	14
17A1	S. W. Griffen	U, 255	Dg	41	40	4	..	..
17D1	E. Horn	U, 455	Dr	310	8	270	207	73

Sammamish Lake area, King County, Wash.—Con.

Zone(s) / Character of material	Water level: Below datum (feet)	Water level: Date	Pump: Type, H. P.	Use	Hardness	Chloride	Remarks
..	..	..	J, 3	D	42	14	Supplies four families. Reported to penetrate till.
Gravel and sand	204.03	11- 1-51	P, 1	D	50	14	Reported to penetrate 185 ft of till.
Till	72	Reported	J, ¾	D	58	16	
..	..	..	P, 1	D	46	14	
Till	16.21	11- 1-51	S, ¼	D	32	12	
Gravel	104	Reported	..	..	..	..	Reported to penetrate gravel entire depth.
Gravel and clay	6.58	9-11-51	S, ¼	D	..	..	Reported to penetrate clay above aquifer.
..	..	..	S, ¼	D	44	12	
Sand and gravel	..	..	J, ½	D	60	18	L.
..	14	Reported	C, ¼	D	56	16	
Sand, fine	12.73	9-11-51	P, ¼	D	80	12	Supplies two families.
Clay, silty	7.59	5-24-51	N	D	..	..	Auxiliary supply.
Gravel	5.63	. .do. .	J, ¾	D	78	12	Reported till under aquifer.
..	74.15	5-21-51	P, ¾	D	76	22	
Sand	35.70	6-18-51	J, ½	D,Irr	62	12	L.
Gravel	9.97	6-19-51	N	D	..	..	
Till	28.99	. .do. .	J, ½	D	..	..	Reported soft water.
. . . .do. . . .	12.36	6-12-51	S, ¼	D	42	12	Reported inadequate.
..	13.61	6-18-51	J, ½	D	66	12	Reported to penetrate till.
Sand	255	9- 9-51	T, 5	D	92	10	Reported to yield 25 gpm. L.

Table 1.--Records of representative wells in the

Well no.	Owner or tenant	Topog. and Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing	
							Depth to top feet)	Thick-ness (feet)
	T. 26 N., R. 5 E.--Con.							
17G1	E. Eveleth	U, 250	Dg	27	40	4	25	1
17H1	H. K. English	U, 250	Dg	16	48	4	..	..
17M1	Hopkins Nursery	Ub, 170	Dr	240	6	..	..	..
17N1	Ensio Saline	Ub, 190	Dg	22	30	22	..	..
17N2	J. R. Remlinger	Ub, 190	Dr	150	3	..	..	..
18A1	C. W. Ostrom	S, 50	Dr	115	6	115	115	..
18A2	D. A. Maydole	S, 50	Dr	101	6	101	92	9
18E1	J. Milkay	U, 400	Dr	105	6	62	47	20
18J1	F. J. Watsen	U, 135	Dg	9	36	9	1½	7½
18L1	J. Henderson	S, 440	Dg	18	54	3	..	..
18M1	D. K. Lance	U, 400	Dr	18	6	..	..	..
18P1	C. E. Orr	S, 430	Dg	15	36	8	12	½
18P2	H. Wivart	S, 390	Dg	27	36	..	..	..
19A1	G. C. Lanphere	S, 290	Dr	176	6	146	100	46
19E1	L. E. Lawrence	U, 400	Dg	28	30	28	..	..
19F1	C. Pyykko	U, 450	Dg	33	30	35	..	..
19L1	A. C. Johnson	U, 450	Dg	52	30	3	..	..
19L2	W. Tormanen	U, 425	Dr	350	6	350	310	40

Sammamish Lake area, King County, Wash.--Con.

Zone(s) / Character of material	Water level: Below datum (feet)	Water level: Date	Pump-Type, H. P.	Use	Hardness	Chloride	Remarks
Sand	10.02	6-18-51	C, ¼	D	60	18	Reported to penetrate till.
. . . .do. . . .	8.65	5-21-51	S, ½	D	92	28	. . . . Do . . . .
..	..	..	..	..	..	..	Reported to penetrate 240 ft of clay. Abandoned.
Sand	..	..	S, ¼	D	92	14	Reported to penetrate till.
..	..	..	P, ½	D,S	76	14	
Gravel	Flows	8-28-51	J,2	D	54	20	Reported to penetrate 115 ft of clay.
Sand, coarse	1.36	. .do. .	J,1	D	66	18	L.
Sand	28	Reported	J, ½	D	138	12	Reported dd 6½ ft after 2 hr pumping 8½ gpm. Supplies two families. L.
Gravel	3.06	8-28-51	C, ½	D,Irr	72	14	
Sand	9.28	6- 5-51	S, ¼	D	72	24	Reported to penetrate till.
..	13.98	. .do. .	S, ¼	D	74	20	
Sand	5.48	. .do. .	S, ¼	D	68	14	Reported to penetrate till.
..	21.11	. .do. .	J, ¾	D	82	20	Reported inadequate.
Sand	102.94	. .do. .	P, ¾	D	..	..	Supplies two families. L.
. . . .do. . . .	9.67	5-25-51	J, ½	D	70	16	
Gravel	19.03	6- 4-51	J, ½	D,S	84	16	
..	45.13	. .do. .	J, ½	S,Irr	104	28	
Sand	305	Reported	N	D	..	..	L.

Table 1.--Records of representative wells in the

Well no.	Owner or tenant	Topog. and Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing	
							Depth to top feet)	Thick-ness (feet)
	T. 26 N., R. 5 E.--Con.							
19N1	Peter Larson	U, 455	Dg	29	40	7	2	27
19P1	S. K. Thomson	U, 400	Dg	15	60	6	..	..
20B1	L. Hesse	V, 180	Dg	11	60	11	1	10
20C1	R. G. Guttormson	T, 180	Dg	21	38	20	1	20
20C2	Nile Thread	T, 200	Dg	18	48	18	..	..
20G1	M. Fuhrer	T, 150	Dg	37	30	37	0	37
20J1	Francis Faulkner	S, 275	Dr	68	5	68	8	60
20K1	J. E. Moulton	S, 130	Dg	8	36	8	..	..
20L1	J. D. Saling	V, 125	Dr	99½	6	99	..	..
20L2	G. G. Gaidos	V, 175	Dr	75	6	75	62	13
20M1	C. O. Myers	T, 150	Dr	60	3	..	..	..
20M2	Dave Steiner	T, 140	Dr	91	4	85	81	10
20N1	Bruce Anderson	T, 140	Dr	95	6	..	..	..
20N2	G. C. Hamilton	T, 145	Dr	86	6	86	0	81
20N3	George Robbins	V, 100	Dr	73	3	73	72½	½
20P1	E. A. Sharp	V, 130	Dg	33	36	..	16	17
21K1	A. L. Dunn	U, 291	Dg	57	48	..	54±	11±
21L1	Joe Kranak	U, 300	Dg	63	36	..	..	..
21M1	Charles Dougherty	U, 300	Dg	66	..	..	60	6
21N1	C. B. Ballard	Ub, 225	Dg	22	34	6	..	..
21Q1	Peter Turtiainen	U, 310	Dg	86	48	80	90	10

Sammamish Lake area, King County, Wash.--Con.

Zone(s) / Character of material	Water level: Below datum (feet)	Water level: Date	Pump-Type, H. P.	Use	Hardness	Chloride	Remarks
Till	14.55	4-30-51	S, ½	D	58	14	Reported inadequate.
..	5.15	6- 1-51	S, ½	D	50	16	.... Do ....
Sand	2.17	5-21-51	J, ¾	D	74	18	Reported clay under aquifer.
....do....	13.54	6-11-51	J, ½	D	104	12	
....do....	9.94	5-21-51	S, ½	D	47	14	
....do....	27	Reported	J, 1	D, S	50	18	
Sand and gravel	38	..do..	P, ¾	D	52	18	L.
Sand	2	..do..	S	D	54	10	
..	12	..do..	J, ¾	D	48	12	
Sand and gravel	53	..do..	J, ½	D	..	..	L.
..	..	..	J, ½	D	80	16	
Sand	40	Reported	J, ½	D	90	16	Well screened. L.
....do....	..	..	J, ¾	D, Irr	96	28	Reported to penetrate 95 ft of sand.
....do....	..	..	P, ¾	D	78	18	L.
Gravel	60	Reported	P	D	..	..	L.
Sand	2.56	5- 1-51	J, 1	D	60	12	L.
Gravel	53.18	8-30-51	J, ¾	D	..	..	Reported to yield 10 gpm. L.
..	53.38	6-19-51	P, 1	D, S	74	22	
Gravel	57.62	5- 4-51	P, ¾	D, S	58	16	Reported to penetrate 60 ft of till.
..	9.39	5-24-51	S, ½	D	52	14	Reported inadequate.
Gravel	10.16	6-12-51	P, ½	D	64	18	Reported sand caving below casing. L.

Table 1.--Records of representative wells in the

Well no.	Owner or tenant	Topog. and Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing	
							Depth to top feet)	Thick-ness (feet)
	T. 26 N. R. 5 E.--Con.							
22A1	George Nelson	V, 50	Dr	190	6	160	155	35
22M1	A. & M. Rabbit Farm	U, 375	Dr	172	6	..	..	..
22N1	G. M. Danenbauer	U, 360	Dg	148	48	148	130	18
22P1	L. J. Lang	U, 310	Dg	60	40	..	..	..
23A1	H. N. Thomas	U, 400	Dr	323	6	220	50	170
23B1	Hollywood Poultry Farms Inc.	U, 360	Dr	260	..	..	..	..
23C1	Fred Mattson	V, 50	Dr	50	6	..	..	..
23E1	George Campi	V, 45	Dr	45	8	45	40	5
23F1	Latter Day Saints Church	V, 40	Dr	237	6	237	30	207
23J1	H. Bustad	U, 300	Dr	67	6	..	..	..
23P1	Bert Meyers	V, 50	Dr	50	6	50	..	..
23P2	K. Abe	S, 75	Dr	82	6	82	75	7
24C1	C. Anderson	U, 475	Dr	283	..	..	..	..
24E1	J. Deacon	U, 450	Dr	186	6	..	..	..
25D1	Marlin Fredrickson	U, 265	Dg	23	48	..	2	21
25K1	George Birge	U, 325	Dg-Dn	85	..	85	..	..
25M1	Fred Miller	S, 275	Dr	112	6	100	96	16
25P1	A. Peterson	U, 300	Dg	74	36	70	68	7±
25R1	H. W. Crosby	Ub, 180	Dg	32	36	..	..	..
26H1	Frank Denny	S, 90	Dg	17	40	17	1	16
26H2	A. H. Kemp	V, 100	Dr	225	6	..	..	..

Sammamish Lake area, King County, Wash.--Con.

Zone(s) / Character of material	Water level: Below datum (feet)	Water level: Date	Pump-Type, H. P.	Use	Hardness	Chloride	Remarks
Sand and gravel	5	Reported	S, ¾	D	88	12	L.
..	148	. .do. .	P	D, S	122	40	
Sand	143	. .do. .	P, ½	D	72	16	L.
..	56.10	6-21-51	P, ⅓	D	..	..	Reported inadequate.
Sand	160	Reported	P, ½	D	50	12	L.
..	..	..	T, 5	D, S	62	16	
Sand	Flows	Reported	N	D, S	78	14	Reported to penetrate till.
Sand, fine	Flows	8-31-51	S, ½	D	60	14	
Sand and gravel	Flows	7-30-51	P, 1½	D, S Irr	80	12	Reported H_2S odor. Pumps sand.
Gravel	38.67	11-16-51	P, ½	D	70	14	Reported to penetrate clay.
..	Flows	Reported	J, ¾	D	46	14	
Sand	Flows	9-21-51	J, ½	D	54	10	L.
Sand(?)	..	..	P	D	68	16	Reported to penetrate till. Well screened.
Gravel and sand	169	Reported	P	D	34	12	
Till	18½	. .do. .	P	D	24	14	Reported inadequate.
..	..	..	P, ½	D, S	64	12	Reported adequate for two families.
Gravel	74	Reported	J, 1	D, S	58	16	L.
Sand	56.68	10-11-51	J, ½	D	34	12	L.
..	18.32	10-18-51	J, ½	D, S	..	..	
Sand and gravel	7.07	10-23-51	C, ½	D	76	12	Reported till under aquifer.
Silt	Flows	10-22-52	N	D	..	..	L.

Table 1.--Records of representative wells in the

Well no.	Owner or tenant	Topog. and Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing	
							Depth to top (feet)	Thickness (feet)
	T. 26 N., R. 5 E.--Con.							
26K1	C. L. Theno	S, 80	Dg	58	30	58	..	..
26K2	W. A. Donahue	V, 50	Dg	27	30	27	..	..
26L1	Louis Ulrich	V, 45	Dr	128	6	..	..	..
27C1	G. Ogilvie	U, 300	Dg	48	60	..	..	..
27D1	O. Mack	U, 300	Dg	80	..	..	..	..
27D2	J. C. Walker	U, 270	Dg	83	40	47	..	..
27K1	Bob Muller	Fp, 45	J	15	30	..	..	..
27L1	B. Rusch	T, 90	Dg	17	36	16	16½	½
28B1	H. A. Baer	S, 270	Dg	55	36	..	..	..
28C1	C. J. Sabastian	S, 180	Dg	15	40	..	..	..
28D1	C. Arnold	U, 175	Dr	54	6	..	40	14
28E1	W. C. Pellett	Ub, 175	Dr	42	8	..	..	..
28J1	Ruby Smith	Ub, 165	Dg	11	36	..	..	..
28J2	J. J. Yeyna	Ub, 200	Dg	34	36	..	31½	2½
28K1	G. A. Smith	Ub, 175	Bd	61	3	..	..	..
28M1	L. Eastham	Ub, 150	Dr	162	6	158	158	4
28N1	E. B. Payne	U, 170	Dr	143	3	143	..	..
28N2	Al Johns	U, 190	Dr	120	6	120	110	10
28P1	E. Cronhagen	U, 165	Dg	15	36	14	12	3
28R1	G. Hathaway	U, 250	Dg	11	..	..	..	..
29B1	G. W. Tyler	Ub, 180	Dg	22	36	..	1	21

Sammamish Lake area, King County, Wash.--Con.

Zone(s) / Character of material	Water level: Below datum (feet)	Water level: Date	Pump: Type, H. P.	Use	Hardness	Chloride	Remarks
..	50	Reported	J, 1½	D, S	106	12	
Sand	10.80	10-23-51	C, ½	D	122	12	Reported to penetrate till.
..	Flows	9-21-51	P, ¾	D	..	..	
Till	42.05	6-21-51	P	D	48	16	Reported inadequate.
..	69.55	. .do. .	N	NU	..	..	
..	63.08	. .do. .	P, ½	D, S	52	14	Reported to penetrate till.
..	4	Reported	C,15	D, S	..	..	Reported to yield, 200 gpm.
Sand	3.08	4-26-51	S, ¼	D, S	78	14	L.
..	46.07	5-24-51	P, ½	D,Irr	162	72	
..	8.83	6-12-51	S, ¼	D, S	58	16	
Gravel	10	Reported	J, ½	D, Irr	30	14	Reported dd 10 ft bailing 30 gpm. L.
..	..	..	T, 1	D, S	34	16	Reported iron in water.
..	4.21	4-26-51	S, ¼	D, S	34	18	
Sand	19	Reported	J, ¾	D	42	12	L.
..	14	. .do. .	P, ½	D, S	48	12	
Gravel and sand	40±	11- 6-51	T, 1	D, S	..	..	Reported dd 40 ft pumping 10 gpm. L.
..	40	Reported	P, ½	D, S	82	12	Reported to penetrate till and clay.
Sand, coarse	..	..	P, ¾	D	..	..	L.
Sand	4.73	4-27-51	J, ½	D	184	32	L.
..	2.11	4-24-51	S, ¼	D	50	14	Reported inadequate.
Sand and gravel	19.51	5- 4-51	S, ¼	D	32	12	

Table 1.--Records of representative wells in the

Well no.	Owner or tenant	Topog. and Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of Casing (feet)	Water-bearing	
							Depth to top (feet)	Thickness (feet)
	T. 26 N., R. 5 E.--Con.							
29D1	A. Ihlenfeldt	V, 90	Dn	18	2	18	..	..
29E1	W. E. Ferguson	S, 100	Dr	75	6	70	71	4
29G1	A. Wigren	Ub,150	Dr	35	..	..	..	..
29H1	L. P. Conover	U, 125	Dg	125	48	115	..	..
29J1	C. M. Anderson	Ub,175	Dr	40	6	..	..	..
29L1	B. B. Reynolds	Ub, 160	Dg	13	30	16	13±	3±
29L2	--McLean	U, 225	Dr	139	6	139	134	5
29P1	T. Carlen	Ub, 260	Dg	65	40	..	1	59
29P2	R. M. Baughman	Ub, 250	Dr	147	6	141	140	5
29Q1	E. H. Ramin	U, 245	Bd	54	24	..	4	50
29Q2	L. F. Supple	U, 250	Dg	34	36	34	30	4
29R1	O. A. Lee	U, 170	Dg	13	30	8	..	..
30A1	Juanita School	T, 130	Dr	150	3	..	..	..
30D1	W. Kangas	U, 410	Dg	26	48	..	..	..
30E1	C. A. Fortman	U, 440	Dg	64	..	..	..	..
30G1	Town of Juanita	S, 120	Dr	184	18-10	184	165	12
30G2	F. E. Wubbena	S, 120	Dg	14	48	12	..	..
30G3	E. J. Bouchard	S, 120	Dr	46	6	46	42	4
30H1	--Brown	T, 70	Dg	27.5	36	10	..	..
30J1	B. P. Judy	T, 70	Dg	15	36	14	1	14
30M1	--Miller	U, 400	Dr	380	6	..	350	4
30N1	D. Reine	U, 375	Dg	50	48	50	40	10

Sammamish Lake area, King County, Wash.--Con.

...ne(s) / Character of material	Water level: Below datum (feet)	Water level: Date	Pump-Type, H. P.	Use	Hardness	Chloride	Remarks
Sand	..	..	T, ¼	D	46	14	
Sand, coarse	27.32	4-30-51	J, ¾	D	74	10	L.
..	..	..	P, ½	D	124	14	Supplies two families.
..	15.42	6-12-51	J, ½	D	98	12	Reported to penetrate till.
..	..	..	J, ¼	D	88	14	Reported iron in water.
Sand	9.23	4-30-51	C, ½	D, S	58	12	L.
Gravel, coarse	117	Reported	P, ½	D, S	122	14	Reported dd 7 ft bailing 10 gpm. L.
Sand	53.27	4-26-51	N	D	32	12	
Gravel	72.55	4-27-51	P, ½	D	114	18	L.
Clay, sand	14.27	. .do. .	J, ½	D	54	14	L.
Sand	12.72	. .do. .	J, ½	D	64	18	
..	5	Reported	P, ¼	D. S	..	..	Reported low in summer.
..	..	..	P, 1½	Inst	..	..	
..	10.33	6- 1-51	S, ¼	D, S	30	14	
Till	55.60	4-30-51	P, ½	D	100	30	Reported inadequate.
Sand	57	Reported	T,15	PS	..	..	Reported to yield 250 gpm. L. A.
Sand and gravel	..	..	S, 1	D	56	14	
Sand	..	..	P, 1	D	78	18	L.
. . . .do. . . .	22.75	5- 1-51	S, ¼	D	90	24	
. . . .do. . . .	11.43	5-25-51	P, ¾	D, Irr	48	14	
Sand and gravel	..	..	P, 2	D	108	12	L.
Sand	40	Reported	J, 1	..	122	24	L.

Table 1.--Records of representative wells in the

Well no.	Owner or tenant	Topog. and Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing	
							Depth to top (feet)	Thickness (feet)
	T. 26 N., R. 5 E.--Con.							
30Q1	J. Tolme	T, 20	Dr	30	..	..	..	..
30R1	L. Dunmire	T, 20	Dr	190	6	..	..	..
31K1	Stephen Thein	V, 20	Dr	38	6	..	..	..
32B1	L. Anderson	U, 225	Dg	20	..	..	..	..
32B2	D. F. Garrison	Ub, 250	Dg	35	..	..	..	..
32C1	D. J. MacDonald	Ub, 235	Dg	70	30	..	..	..
32F1	O. L. Blau	Ub, 155	Dg	20	36	19	..	..
32F2	K. M. Pederson	S, 100	Dg	21	36	20	0	21
32R1	City of Kirkland	U, 325	Dr	299	7-12	263	256	48
33A1	W. J. Nicholson	Ub, 350	Dg	57	48	3	50	7
33Q1	N. Downie	U, 250	Dg	13	36	13½	4	9
34E1	O. Staley	U, 235	Dg	39	36	38	28	11
34K1	W. G. Garnier	V, 40	Bd	21	28	..	1	19
34M1	D. E. Sprint	U, 330	Dg	65	48	..	..	..
34N1	G. Mathias	U, 300	Dg	35	..	..	..	..
34N2	G. E. Lovelace	U, 300	Dg	74	40	70	..	..
34P1	W. A. Linn	S, 300	Dg	25	36	5	..	..
35A1	J. J. Smith	U, 275	Dg	26	40	..	..	..
35B1	A. B. Galloway	U, 225	Dg	81	..	..	..	..

Sammamish Lake Area, King County, Wash.--Con.

...ene(s) Character of material	Water level: Below datum (feet)	Water level: Date	Pump-Type, H. P.	Use	Hardness	Chloride	Remarks
..	...	..	S, ¾	D	72	18	
..	8.87	5-29-51	S, ½	D	96	14	Supplies 20 cabins. H_2S odor.
..	..	..	..	De	..	..	Test hole. L.
..	6.69	4-26-51	S, ¼	D	36	16	Reported to penetrate 5 ft of sand at surface.
..	4.30	4-27-51	S, ¼	D	84	22	Reported inadequate.
..	22.83	4-26-51	J, ¾	D	92	16	
..	4.52	. .do. .	J, ½	D	78	14	Reported to penetrate till over aquifer.
Sand	17.68	. .do. .	S, ½	D, S	38	14	
Sand and gravel	178.4	1- 7-53	T	PS	..	..	Well no. 8. Test hole drilled to 309 ft. L. A.
Gravel and sand	48.17	4-24-51	P, ½	D	78	22	L.
Sand	6.48	5-25-51	C, ½	Irr	80	22	
. . . .do. . . .	32.67	4-24-51	J, ½	D,Irr	66	18	L.
Gravel	15.91	9-21-51	S, ¼	D	56	12	Reported clay under aquifer.
..	..	..	P, ½	D,Irr	74	20	Supplies two families.
..	6.45	4-24-51	J, ½	D	68	24	Reported iron in water.
Sand	66.57	. .do. .	P, ¾	D	70	16	Reported inadequate for irrigation.
..	9.59	. .do. .	J, ½	D	40	14	Reported inadequate.
..	19.89	10-11-51	J, ¼	D,S	50	16	
..	44.80	. .do. .	J, ½	D,S	78	14	

Table 1.--Records of representative wells in the

Well no.	Owner or tenant	Topog. and Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing	
							Depth to top (feet)	Thickness (feet)
	T. 26 N., R. 5 E.--Con.							
35C1	F. W. Dunham	S, 100	Dg	25	30	..	..	..
35F1	W. B. Harrison	T, 125	Dr	37	6	..	..	..
35F2	Tony Harder	T, 150	Dr	66	6	66	51	15
36C1	C. B. Streeter	U, 320	Dg	68	36	..	56	13±
36P1	J. E. Johnson	U, 360	Dg	22	36	..	6	14
	T. 26 N., R. 6 E.							
5H1	W. A. McMahon	U, 300	Dr	238	6	..	..	..
5Q1	B. A. Paulson	U, 325	Dg	21	48	..	..	..
7C1	W. F. Cottrell	U, 250	Dg	8	30	..	..	..
7C2	E. Lustig	U, 275	Dg	25	48	25	..	..
7C3	C. Hedberg	U, 290	Dr	63	4	63	..	..
7E1	W. H. Munn	U, 250	Dg	17	24	..	..	..
7G1	Norm Fragner	U, 250	Dr	44	6	44	..	..
7J1	R. L. Cunningham	U, 270	Dg-Dr	24	48	24	0	20
7L1	Bob Sandberg	Ub, 260	Dg	18	48	..	..	..
7L2	F. [illegible]. Johnson	Ub, 260	Dg	20	36	..	..	..
7P1	W. P. Northup	Ub, 250	Dg	9	48	..	..	..
7Q1	J. L. Davis	U, 200	Dg	12	18	12	0	12
7R1	L. Lewis	U, 240	Dg	12	30	..	..	..
8B1	F. C. Hermansen	U, 280	Dg	15	30	15	..	..
8G1	C. W. Allender	U, 285	Dg	48	30	48	..	..
8G2	O. E. Kelting	U, 285	Dg	44	44	44	41	4±

Sammamish Lake area, King County, Wash.--Con.

...ne(s) Character of material	Water level: Below datum (feet)	Water level: Date	Pump-Type, L, P.	Use	Hardness	Chloride	Remarks
..	17.30	9-21-51	J, 1	D	64	14	
..	..	..	J, ½	D, S	58	14	
Sand	15	Reported	J, 1	D, S	68	18	Reported dd 30 ft bailing 30 gpm. L.
. . . .do. . . .	64.29	10-11-51	J, ¾	D	46	16	L.
Sand and gravel	7	Reported	S, ¼	D	44	22	Reported to penetrate till.
..	26.79	10- 8-52	J, ¾	D	42	12	
..	16.09	. .do. .	S, ¼	D	64	12	
..	5.75	10- 7-52	C, ¼	D	48	12	
Sand and gravel	23.64	. .do. .	S, ¼	D	30	10	Reported to penetrate till.
. . . .do. . . .	..	..	J, ½	D	40	12	Reported to penetrate 39 ft of till.
..	13.71	10- 7-52	S, ¼	D	50	10	
Sand	Flows	11- 9-51	C	D	36	14	
Sand and gravel	18.67	10- 2-52	S, ¼	D	44	8	
..	17.70	10- 7-52	P	D	44	14	
Sand and gravel	16.40	. .do. .	S, ¼	D	76	14	
..	7.90	10- 7-52	S, ¼	D	62	16	
Sand and gravel	10	Reported	S, ¼	D	22	12	
..	11.02	10- 2-52	S, ¼	D	34	10	
Gravel	13.55	10- 8-52	C, ½	D	38	8	Reported to penetrate till.
..	39.95	. .do. .	P, ¾	D	96	14	. . . . Do . . . .
Gravel	19.51	. .do. .	P, ¾	D	98	14	L.

Table 1.--Records of representative wells in the

Well no.	Owner or tenant	Topog. and Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of Casing (feet)	Water-bearing	
							Depth to top (feet)	Thickness (feet)
	T. 26 N., R. 6 E.--Con.							
8H1	J. P. Smith	Ub, 280	Dg	32	30	32	..	..
9A1	W. A. Barnes	U, 435	Dg	37	24	37	33	4
9B1	Alex Mezo	U, 430	Dg	17	48	..	..	..
9G1	G. M. Brown	U, 400	Dg	23.5	30	..	19	5
9L1	L. E. Hall	U, 450	Dg	32	48	..	25	6
9M1	A. N. Lipes	U, 260	Dg	41	48	41	..	..
10N1	E. Peterson	U, 550	Dg	14	72	..	0	14
10N2	A. Engebrigtsen	U, 520	Dg	48	48	..	45	3
12C1	Elsie Chapman	Fp, 60	J	290	6	..	..	..
12E1	James Wallace	Fp, 60	Dr	305	6	..	301	4
13D1	Town of Duvall	Fp, 65	Dr	215	6	215	202	13
13D2	Art Herman	Fp, 65	Dr	206	6	..	..	..
13N1	Elmer Pazer	S, 107	Dr	238	6	238	234	4
15M1	S. E. Seims	U, 555	Dg	18	36	..	14	4
15N1	C. W. Larson	U, 570	Dg	56	24	..	..	..
18J1	C. Ralls	U, 220	Dg	15	24	..	..	..
18J2	John Fruhing	U, 225	Dg	8	30	..	5	3
18R1	Neal Tourtellotte	Ub, 200	Dg	17	48	17	..	..
19A1	O. T. Dean	U, 180	Dg	31	30	31	..	..
19C1	R. O. Mason	Ub, 275	Dg	36	48	..	35	1
19J1	J. Taylor	Ub, 160	Dn	25	1¼	..	..	..
19L1	M. S. Slettebo	U, 430	Dr	236	8	224	224	12

Sammamish Lake area, King County, Wash.--Con.

Zone(s)	Water level		Pump-Type, H. P.	Use	Hardness	Chloride	Remarks
Character of material	Below datum (feet)	Date					
..	22.49	. .do. .	J, ½	D	48	14	Reported to penetrate till.
Sand and gravel	25.59	. .do. .	J, ½	D	132	14	L.
..	15.50	. .do. .	C, ½	D	110	18	Reported to penetrate till.
Sand and gravel	16.03	. .do. .	N	D	90	16	L.
Sand and gravel	28.72	10- 8-52	J ½	D	40	14	L.
..	16.34	. .do. .	J, ½	D	98	12	
Till	12.22	10-15-52	N	D	16	10	
Gravel	43.02	. .do. .	N	D	98	8	L.
..	0	11-20-52	J, 1½	D	106	40	
Sand, gritty	Flows	. .do. .	J, 1	D, S	92	32	Reported dd 75 ft pumping 30 gpm. L.
Sand and gravel	2.38	5-15-51	T, 2	PS	..	..	L.
..	Flows	11-20-52	J, ¾	..	96	16	
Sand	36.25	12-17-51	J, 1	D, S	..	..	L.
Gravel	16.27	10-15-52	J, ½	D	50	12	L.
..	54.32	. .do. .	J, ½	D	34	10	
..	12.14	9-24-52	C, ½	D	70	14	
Gravel	6.60	10- 2-52	C, ½	D	34	18	
Sand	11.86	9-24-52	J, ½	D	30	18	
. . . .do. . . .	20.40	. .do. .	S, ½	D	30	12	
Sand	30.67	. .do. .	N	D	76	12	
..	..	..	S, ½	D	38	16	
Sand and gravel	190.16	9-25-52	P, 1	D	42	12	L.

Table 1.--Records of representative wells in the

Well no.	Owner or tenant	Topog. and Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of Casing (feet)	Water-bearing	
							Depth to top (feet)	Thickness (feet)
	T. 26 N., R. 6 E.--Con.							
19Q1	E. M. Lisman	U, 120	Dg	8	30	8	..	..
19Q2	A. C. Rubens	U, 120	Dg-Dr	51	30-2	51	51	?
20D1	J. H. Weiss	Ub, 180	Dg	27	24	27	0	27
20D2	. . . .do. . . .	Ub, 175	Dg	20	24	20	0	20
20E1	C. A. Philbrick	Ub, 180	Dr	41	8	41	28	13
20M1	C. M. Welch	Uv, 140	Dr	65	6	65	65	..
20M2	C. H. Fordney	Uv, 145	Dr	72	6	72	72	..
20N1	Ralph Rigby	Ub, 130	Dr	47	6	47	47	2±
20P1	A. Sather	U, 150	Dr	65	6	60	53	13±
20Q1	James Madden	Ub, 200	Dr	55	6	55	53	2
20R1	Bill Hieb	U, 300	Dr	78	6	78	70	8
21P1	Ivan Scheel	U, 475	Dr	99	6	99	62	33
21P2	O. E. Keehr	U, 440	Dr	220	8	220	165	15
24C1	O. E. Thayer	S, 110	Dr	251	6	..	247	4
25C1	A. P. Winkelman	S, 90	Dr	45	6	45	35	10
25F1	Vera Pickering	S, 60	Dr	58	6	58	42	6
25G1	Jack Mills	U, 220	Dr	62	6	..	..	..
25J1	M. E. Boshaw	U, 230	Dr	88	6	..	..	..
30F1	I. Brown	Uv, 100	Dr	183	6	162	155	7

Sammamish Lake area, King County, Wash.--Con.

Zone(s) / Character of material	Water level: Below datum (feet)	Water level: Date	Pump-type, H. P.	Use	Hardness	Chloride	Remarks
..	6.42	9-23-52	C, ½	D	40	12	
Sand	Flows	9-25-52	J, ½	D	52	16	Flows 20 gpm. Reported to penetrate 51 ft of clay above aquifer.
Sand and gravel	18.63	9-24-52	P	NU	..	..	
. . . .do. . . .	18	Reported	S, ¼	D,S	48	16	
Sand	29.00	9-24-52	J, ½	D,S	32	12	
. . . .do. . . .	Flows	. .do. .	S, ¼	D	46	8	Flows 3 gpm. L.
. . . .do. . . .	Flows	. .do. .	..	D	..	..	L.
Sand and gravel	7.72	. .do. .	S, ¼	D	66	12	L.
. . . .do. . . .	..	..	..	D	84	10	L.
. . . .do. . . .	18	Reported	J, ½	D	74	10	L.
Sand	34	. .do. .	N	D	..	..	Reported yield 30 gpm. L.
Sand and gravel	30	. .do. .	P, ¾	D	60	10	L.
. . . .do. . . .	165	. .do. .	J,2	D	56	8	Reported no dd after ½ hr bailing 20 gpm. L.
Sand, fine	..	..	P,1	D, S	70	12	L.
Sand	..	..	J, ½	D, S	70	14	L.
Gravel and sand	10.78	11- 5-52	J, ½	D	106	12	Reported to flow during winter. L.
..	23.79	11-20-52	S	D	108	14	
..	27	Reported	P, ½	D	62	8	Reported to yield 80 gpm.
"Shale"(silt?)	40	. .do. .	N	NU	..	..	Abandoned. L.

Table 1.--Records of representative wells in the

Well no.	Owner or tenant	Topog. and Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing	
							Depth to top (feet)	Thickness (feet)
	T. 26 N., R. 6 E.--Con.							
30F2	I. Brown	Uv, 100	Dr	44	6	38	40	4
30G1	F. B. Sahlstrom	Uv, 100	Dg-Dr	50	27-6	50	50	..
30N1	V. A. Binger	U, 175	Dg	21	30-24	21	..	..
30Q1	Ed Bower	Uv, 95	Dr	53	6	52	52	1
31A1	Helen Turcotte	Uv, 125	Dg	99	30	100	..	..
31L1	Stanley Robstad	Uv, 100	Dr	353	6	..	348	5
32N1	Earl Diller	U, 280	Dg	58	30	58	..	..
32R1	R. F. McInnes	U, 375	Dg	27	30	27	26	1
	T. 26 N., R. 7 E.							
6F1	H. J. Roetcisoender	Fp, 45	J	338	6	338	..	..

Sammamish Lake area, King County, Wash.--Concluded

Zone(s) / Character of material	Water level: Below datum (feet)	Water level: Date	Pump-type, L, P,	Use	Hardness	Chloride	Remarks
Sand	6.60	10- 8-52	C, ¼	D	66	12	Reported dd 16 ft after 24 hr pumping 10 gpm. L.
Sand, fine	9.14	8-31-51	C, ½	D	..	..	L.
..	19.05	10-18-51	C, ½	D	80	18	Reported low in November.
Gravel	8	Reported	P,1	D	..	..	L.
..	50.36	9-23-52	P, ½	D	90	10	
Gravel	..	..	..	D	..	..	L.
..	46.54	10-21-52	J, ⅓	D	168	20	
Sand, fine	8.75	10-10-52	J, ½	D	54	8	Reported to penetrate till above aquifer.
..	19.56	11-20-52	J,1½	D	240	102	Reported to contain iron. Gravel packed.

Table 2.--Representative springs in the
(Locations of springs

Topography and approximate altitude: S, slope; U, upland; Ub, upland bench. Altitude of land surface from barometric traverse or interpolated from topographic maps.

Spring number	Owner or tenant	Topography and altitude (feet above sea level)	Water-bearing material	Occurrence
T. 24 N., R. 4 E.				
11D1s	H. W. Attlesey	S, 150	Sand	Discharge at contact with clay
12M1s	Mercer Island Co-op Water Assoc.	S, 175	Sand	Drain from outwash
12R1s	A. M. Lesueua	S, 250	Silt	Drain from subtill beds
13A1s	C. Lillioms	S, 275	Silt	. . . . do . . . .
T. 24 N., R. 5 E.				
7E1s	E. L. Brant	S, 100	Sand	Drain from subtill beds
18B1s	Ackerson Estate	S, 225	Sand	. . . . do . . . .
18K1s	Charles Jenner	S, 230	Sand	. . . . do . . . .
18K2s	M. H. Anthony	S, 230	Sand	Discharge at contact with clay
20K1s	J. A. Cluck	S, 125	Sand	. . . . do . . . .
30K1s	John Wilhite	S, 250	Sand	. . . . do . . . .
T. 24 N., R. 6 E.				
21H1s	L. J. Bailey	S, 100	Sand	. . . . do . . . .
27Q1s	Town of Issaquah	S, 225	Sand and gravel	Drain from outwash
T. 24 N., R. 7 E.				
6P1s	W. E. Boeing	S, 150	. .do. .	. . . . do . . . .

Sammamish Lake area, King County, Wash.
are shown on plate 1.)

Use: D, domestic; NU, not in use; S, stock.

Hardness and chloride: Chemical character in parts per million.

Yield		Use	Hardness as $CaCO_3$	Chloride	Temperature (°F)	Remarks
GPM	Date					
..	..	D	120	16	49	Spring and well supply 40 houses.
..	..	NU	78	16	48	Abandoned.
..	..	D	56	10	50	Supplies five houses.
10	2-20-51	D	38	12	48	
20	2-20-51	D	106	8	49	
10-15	3- 2-51	D	56	8	47	
?	2-21-51	D	72	8	47	Supplies two houses.
40	. .do. .	D	68	8	48	Supplies 48 houses.
5	2- 8-51	D	72	22	48	
25	2-16-51	D	62	8	47	Supplies 20 houses.
20	4- 3-51	D	76	12	..	
150	6-15-51	PS	..	..	48	Seven springs discharge into reservoir.
80	11-20-51	D,S	48	10	..	Supplies farm.

Table 2.--Representative springs in the

Spring number	Owner or tenant		Water-bearing material	Occurrence
T. 25 N., R. 5 E.				
1B1s	City of Redmond	S, 210	Sand	Discharge at contact with clay
1Q1s	Mrs. Allen Saunders	S, 125	Sand	. . . . do . . . .
17A1s	K. D. Simpson	U, 375	Sand	Seepages at contact with till
21M1s	W. B. Killeen	U, 300	Sand	Drains subtill beds
28E1s	Leroy Olson	S, 200	Sand	Seepage from soil
T. 25 N., R. 6 E.				
17M1s	C. B. Ewoldsen	S, 300	Sand	Discharge at contact with clay
32K1s	A. B. Hendricks	S, 250	Gravel	. . . . do . . . .
T. 26 N., R. 5 E.				
3K1s	A. C. Roughton	S, 150	Sand	Seepage from soil
8M1s	Stanley Duffy	S, 125	Sand	. . . . do . . . .
11H1s	E. S. Hocomb	U, 375	Sand	Seepage from outwash
12J1s	C. J. Boudreau	U, 250	Sand	Drain from outwash
14N1s	W. C. Gatton	S, 100	Gravel	Seepage from outwash
17J1s	George Devenpeck	U, 175	Sand and gravel	. . . . do . . . .
20R1s	R. B. Littell	Ub,150	Sand	Drain from outwash
23B1s	Kathryn McCurry	S, 225	Sand	. . . . do . . . .
T. 26 N., R. 6 E.				
7A1s	M. H. Fruhling	Ub,325	Gravel	Discharge at contact with till

Sammamish Lake area, King County, Wash.--Con.

Yield		Use	Hardness as $CaCO_3$	Chloride	Temperature (°F)	Remarks
GPM	Date					
180	5-15-51	PS	..	..	..	4.
30	5- 8-51	D, S	50	12	..	
2	5-21-51	D	58	12	49	Supplies two families.
10	4-19-51	D, S	26	12	48	
3	4- 3-51	D	58	14	49	
25	6-17-51	D	98	12	48	
500	7-20-51	D	..	..	..	
1	5-10-51	D	56	22	49	
..	..	D	106	14	..	
..	..	D	32	14	..	
7½	11- 9-51	D	42	18	49	
3	9-18-51	D,S	50	12	57	
1	6-18-51	D,S	52	12	50	
10-15	5-10-51	D,S	42	14	50	
17	5- 4-51	D,S	22	14	51	
12	10- 8-52	D,S	42	12	50	

Table 3.--Materials penetrated by representative wells.
(Tentative stratigraphic designations by B. A. Liesch)

24/4-11A1. A. R. Early. East Seattle, Mercer Island. Altitude about 75 feet. Dug by Adams, 1932.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Till:		
Gravel and "hardpan".	10	10
Sammamish clay:		
Clay, blue, sand lenses	25	35
Clay, blue.	54	89
Sand, black, magnetic.	--	--

Casing, 60-inch, set to 45 feet, and 5-inch set from 45 to 89 feet.

24/4-11J1. Fred Bekin. East Seattle, Mercer Island. Altitude about 25 feet. Drilled by N. C. Jannsen, 1932.

Soil.	2	2
Pleistocene and Tertiary(?) deposits, undifferentiated:		
Clay, sand.	4	6
Gravel, cemented, hard.	11	17
Clay, blue.	43	60
Clay, blue and "boulders" water bearing at 110 feet.	52	112
Clay, blue, and gravel.	13	125
Gravel, loose.	4	129
Gravel, cemented.	19	148
Clay, sandy.	22	166
"Boulders".	3	169
Gravel, cemented.	66	235
"Hardpan" and gravel.	11	246
"Boulders", loose.	2	248
"Hardpan", gray.	37	285
"Hardpan".	87	372
"Shale" (silt?), hard.	203	575
Gravel and clay, some sand.	38	613
Clay, hard and "boulders".	45	658
"Soft spot".	9	667
Clay, sand and "boulders".	18	685

Casing, 12-inch

24/4-12C1. H. W. Attlesey. East Seattle, Mercer Island Altitude about 150 feet. Drilled by N. C. Jannsen, 1945.

Vashon drift:		
Advance outwash:		
Sand.	22	22
Gravel, pea, and sand	9	31
Clay.	--	--

Casing, 8-inch, set to 31 feet.

Table 3.--Materials penetrated by representative wells.--Con.

24/4-12F1. Mercer Island Cooperative Water Association. North end of Mercer Island. Altitude about 250 feet. Drilled by N. C. Jannsen, 1937.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Recessional outwash:		
Sand.	12	12
Till:		
"Hardpan".	1	13
Advance outwash:		
Clay, brown, sandy	4	17
Gravel, clean.	5	22
Clay.	0.5	22.5
Sand.	3.5	26
Clay.	2	28

24/4-12F2. Mercer Island Cooperative Water Assoc. North end of Mercer Island. Altitude about 250 feet. Drilled by N. C. Jannsen

Vashon drift:		
Recessional outwash:		
Sand.	4	4
Till:		
"Hardpan" and gravel.	8	12
Advance outwash:		
Gravel, loose.	8	20
Orting gravel:		
Kitsap clay member:		
Clay, blue and clay, sandy, intercalated	82	102
Clay, blue.	53	155
Sand, water-bearing	5	160
Clay, blue.	20	180
Sand, water-bearing	9	189
Admiralty drift:		
Clay, blue.	51	240
Clay, sandy	10	250
Clay, blue.	6	256

Test hole, abandoned.

24/4-12J1. D. L. Duckey. North end of Mercer Island. Altitude about 265 feet. Dug by A. Pinkston.

Orting gravel:		
Kitsap clay member:		
Sand, medium-grained.	30	30
Sand, fine.	5	35

Casing, 24-inch, set to 35 feet.

Table 3.--Materials penetrated by representative wells.--Con.

24/4-12M1. Mercer Island Coop. Water Assoc. North end of Mercer Island. Altitude about 270.5 feet. Drilled by St. Peter. 1950.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Recessional outwash:		
Topsoil.	7	7
Sand, compact.	33	40
Sand.	12	52
Gravel, coarse.	10	62
Till:		
"Hardpan".	--	--

Casing, 20-inch, set to 62 feet; perforated from 32 to 62 feet.

24/4-13B2. L Voulis. North end of Mercer Island. Altitude about 200 feet. Drilled by H. O. Meyer. 1951.

"Clay loam".	3	3
Orting gravel:		
Kitsap clay member:		
Clay, yellow.	19	22
Clay, blue, sandy.	28	50
Clay, blue, and sand.	10	60
Sand, water-bearing.	10	70
Clay.	--	--

Casing, 6-inch, set to 65.5 feet; screen, No. 14 slot, set from 65 to 70 feet.

24/4-25B1. E. W. Rudow. Parkview Highlands, Mercer Island. Altitude about 60 feet. Drilled by Ralph Peterson.

Vashon drift:		
Till:		
"Hardpan".	60	60
Orting gravel:		
Kitsap clay member:		
Clay, blue.	50	110
Lower member:		
Gravel.	20	130

Casing, 6-inch.

Table 3.--Materials penetrated by representative wells.--Con.

24/4-25B2. H. W. McCurdy. Parkview Highlands, Mercer Island. Altitude about 50 feet. Drilled by N. C. Jannsen.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Till:		
"Hardpan".	50	50
Advance outwash:		
Sand and gravel.	14	64
Orting gravel:		
Kitsap clay member:		
Clay.	10	74
Clay, sandy.	30	104
Lower member:		
Sand and gravel, water-bearing . .	9	113
Clay.	1	114

Casing, 6-inch, set to 113 feet; perforated from 104 to 113 feet.

24/4-25B3. E. R. Hinton. Parkview Highlands, Mercer Island. Altitude about 55 feet. Drilled by H. O. Meyer, 1948.

Vashon drift:		
Recessional outwash:		
Topsoil and gravel.	6	6
Till:		
"Hardpan" and sand.	34	40
Orting gravel:		
Kitsap clay member:		
Clay, some sand.	20	60
Sand and gravel, water-bearing . .	5	65
Clay, blue.	44	109
Lower member:		
Sand and clay, water-bearing . . .	10	119
Sand, gravel, silt and clay, loose, water-bearing.	5	124
Gravel and sand, water-bearing . .	4	128

Casing, 6-inch, set to 128 feet.

24/5-2E1. D. D. Marshall. About 3.5 miles east of Bellevue. Altitude about 350 feet. Drilled by St. Peter, 1951.

Vashon drift:		
Till:		
"Hardpan".	80	80
Puyallup sand:		
Sand, yellow.	55	135
Orting gravel:		
Lower member:		
Sand, black.	30	165

Casing, 4-inch, set to 90 feet and 3-inch, set from 90 to 160 feet.

Table 3.--Materials penetrated by representative wells.--Con.

24/5-3B1. C. E. Ulbrickson. About 3 miles east of Bellevue, about 1 mile west of Phantom Lake. Altitude about 300 feet. Drilled by H. O. Meyer, 1950.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Till:		
Topsoil	2	2
Sand and clay	14	16
Clay, gray	2	18
Sand, clay, and gravel	10	28
Sand, water-bearing	2	30
Sand and clay	4	34
Advance outwash:		
Sand and gravel	7	41
Clay at	--	41

Casing, 6-inch, set to 41 feet.

24/5-4D1. Water District No. 68. About 1.0 mile east of Bellevue. Altitude about 56 feet. Drilled by N. C. Jannsen, 1940.

Vashon drift:		
Recessional outwash:		
Clay	5	5
Clay, sandy	2	7
Till:		
"Rocks"	28	35
Sand, gravel and "rocks"	17	52
"Rocks"	23	75
Admiralty drift:		
Clay, blue	20	95
"Shale"	5	100
Clay, blue	42	142
Gravel, cemented	63	205
Gravel, loose, with water	25	230
"Shale," hard	55	285
"Sandstone"	15	300
Clay, blue	20	320
Clay, blue and "rocks"	55	375
Clay, blue	25	400
Sand, brown with water	5	405
Gravel and sand, with clay	140	545
Sand and gravel, water-bearing	55	600
Gravel, cemented	10	610

Casing, 12-inch, set to 127 feet; 10-inch, set from 40 to 120 feet; 8-inch, set from 127 to 600 feet. Shallow water sealed off by 10-inch pipe and cement from 40 feet to 120 feet; perforated from 195 to 220 feet and 535 to 590 feet.

Table 3.--Materials penetrated by representative wells.--Con.

24/5-4E1. G. C. Gunderson. About 1.0 mile south of Wilburton. Altitude about 50 feet. Drilled by H. O. Meyer, 1951.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Recessional outwash:		
Clay, yellow	9	9
Clay, blue	6	15
Till:		
"Hardpan"	5	20
Admiralty drift:		
Clay, blue and gravel, water-bearing	70	90
Clay, sandy, fine	3	93
Clay	3	96
Clay, sandy, fine	39	135
Sand, and trace of clay	7	142
Sand and gravel	4	146

Casing, 6-inch, set to 141 feet; screen, No. 10 slot, set from 141 feet to 146 feet.

24/5-5D1. L. H. Black, Bellevue. Altitude about 275 feet. Drilled by J. J. Bell, 1941.

Orting gravel:		
Kitsap clay member:		
Topsoil	1	1
Clay, brown, sticky	15	16
Clay, blue	24	40
Silt, gray, water-bearing	2	42
Clay, blue, sandy	10	52
Clay, blue	63	115
Sand, gravel and clay, blue	5	120
Sand, gravel and clay, brown	35	155
Clay, blue	1	156
Sand, hard, and gravel with clay, brown	6	162
Lower member:		
Gravel, gray, cemented, dry	42	204
Admiralty drift:		
Clay, brown	6	210
Clay, brown, sandy	20	230
Clay, gray-blue, sandy	20	250
Silt, gray	15	265
"Sandstone", gray	18	283
Clay, blue	12	295
Sand, gray, water-bearing	39	334
Clay, brown and wood	3	337
Sand, gray, fine, water-bearing	23	360
"Rocks", small, few showing	1	361
"Semi-hardpan", "rocks"	34	395
Sand, gray, water-bearing	31	416

(continued next page)

Table 3.--Materials penetrated by representative wells.--Con.

24/5-5D1.--Continued

Materials	Thickness (feet)	Depth (feet)
"Semi-hardpan".	28	444
Sand, "rocks", dirty, water-bearing	8	452
Sand, water-bearing.	48	500

Casing, 8-inch, set to 480 feet; screen, No. 14 slot, set from 480 to 500 feet.

24/5-5F1. E. W. Oppliger, Bellevue. Altitude about 70 feet. Drilled by N. C. Jannsen, 1935.

Dug hole-gravel filled.	52	52
Vashon drift:		
Advance outwash:		
Sand and gravel.	4	56
Clay, yellow and gravel	3	59
Admiralty drift:		
Clay, blue.	13	72

Casing, 8-inch, set to 64 feet; perforated from 54 to 64 feet.

24/5-5Q2. R. A. Llewellyn, Bellevue. Altitude about 140 feet. Drilled by N. C. Jannsen, 1935.

No record.	50	50
Vashon drift:		
Till:		
"Hardpan".	23	73
Advance outwash:		
Sand, dry.	35	108
Sand, water-bearing.	9	117
Sand, small gravel, water-bearing .	5	122

Casing, 8-inch, set to 122 feet.

24/5-7J1. William Jacquett. North end of Mercer Island. Altitude about 45 feet. Drilled by Van Arsdale, 1951.

Orting gravel:		
Kitsap clay member:		
Clay, blue.	45	45
Sand, coarse, and gravel, fine. . .	7	52

Casing, 6-inch, set to 52 feet; perforated from 42 to 52 feet.

Table 3.--Materials penetrated by representative wells.--Con.

24/5-7J2. C. E. Wilson. North end of Mercer Island. Altitude about 50 feet. Drilled by Van Arsdale, 1951

Materials	Thickness (feet)	Depth (feet)
Orting gravel:		
Kitsap clay member:		
Clay, blue	82	82
Sand	2	84
"Hardpan" (cemented gravel?)	11	95

Casing, 6-inch, set to 95 feet; perforated from 85 to 95 feet.

24/5-7K1. L. Wickstrom. North end of Mercer Island. Altitude about 175 feet. Drilled by H. O. Meyer.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Till:		
"Hardpan", sandy	50	50
Orting gravel:		
Kitsap clay member:		
Clay	30	80
Silt	30	110
Clay	80	190
Lower member:		
Sand, water-bearing	20	210
Sand and gravel, hard-packed	14	224

Casing, 6-inch, set to 210 feet.

24/5-7P1. Mercer Crest Cooperative. Madrona Crest, Mercer Island. Altitude about 275 feet. Dug by L. Bretz.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Till:		
"Hardpan"	28	28
Sand	2	30
Gravel	8	38
"Hardpan"	10	48
Sand	29	77

Casing, 54 inch, set to 7 feet; 48-inch, set from 7 to 74 feet; 36-inch, set from 62 to 77 feet.

Table 3.--Materials penetrated by representative wells.--Con.

24/5-8K1. Roy Borgerson. About 1 mile west of Factoria. Altitude about 25 feet. Drilled by H. O. Meyer, 1951.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Recessional outwash:		
Gravel.	11	11
Till:		
"Hardpan".	17	28
Gravel, trace of water. . . .	3	31
Sand and gravel.	2	33
"Hardpan".	3	36
Advance outwash:		
Sand and gravel.	9	45

Casing, 6-inch, set to 45 feet.

24/5-9C1. Norwood Village. About 0.5 mile north of Factoria. Altitude about 140 feet. Drilled by N. C. Jannsen, 1950.

Vashon drift:		
Topsoil.	4	4
Advance outwash:		
Sand, red.	31	35
Orting gravel:		
Kitsap clay member:		
Shale, blue (clay).	15	50
Sand, gray.	15	65
Lower member:		
Gravel.	55	110
Sand and gravel, fine.	30	140
Sand, blue.	8	148

Casing, 10-inch, set to 98 feet; 8-inch, set from 63 to 161 feet; perforated from 100 to 140 feet.

24/5-9K2. E. G. Kinsman. Factoria. Altitude about 140 feet. Drilled by E. Axelson.

Vashon drift:		
Advance outwash:		
Sand, hard.	78	78
Admiralty drift:		
Clay, blue.	34	112

Casing, 6-inch, set to 110 feet.

Table 3.--Materials penetrated by representative wells.--Con.

24/5-9K3. Sterling Theatres Inc. Factoria. Altitude about 130 feet. Drilled by Safely, 1951.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Till:		
"Hardpan"	30	30
Admiralty drift:		
Clay	116	146
Gravel, dry	4	150
Sand, medium	20	170
Sand, coarse	20	190

Casing, set to 180 feet; screen, No. 10 slot, set from 180 to 190 feet.

24/5-10A1. R. W. Diedrich. About 2 miles northeast of Factoria. Altitude about 410 feet. Drilled by Lewis, 1943.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Till:		
Topsoil	5	5
"Hardpan"	60	65
Puyallup sand:		
Sand, blue gray, little clay	70	135
"Quicksand", some water	21	156
Sand, coarse	15	171

Casing, 4-inch.

24/5-10D2. L. R. Capper. About 1 mile northeast of Factoria. Altitude about 65 feet. Drilled by H. O. Meyer, 1951.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Till:		
Topsoil	2	2
"Hardpan"	10	12
Soft spot, water-bearing	1	13
"Hardpan"	6	19
Clay, blue, sandy with gravel	7	26
Sand, water-bearing	2	28
"Hardpan", blue	10	38
Clay, blue	5	43
"Hardpan"	3	46
Clay, blue, gravel imbedded	9	55
"Hardpan", water-bearing	10	65
Sand and gravel, water-bearing	7	72
"Hardpan"	--	--

Casing, 6-inch, set to 70 feet.

Table 3.--Materials penetrated by representative wells.--Con.

24/5-10J2. H. E. McKinney. Lumac Motel. About 1.5 miles east of Factoria. Altitude about 325 feet. Drilled by St. Peter.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Recessional outwash:		
Gravel and sand, water-bearing	35	35
Till:		
"Hardpan"	35	70
Puyallup sand:		
Sand, yellow, dry	20	90
Sand, black, water-bearing	13	103

Casing, 6-inch, set to 100 feet.

24/5-11L1. Puget Sound Air Service Inc. About 1.75 miles east of Factoria. Altitude about 325 feet. Drilled by R. Bennett, 1945.

Vashon drift:		
Till:		
"Hardpan"	61	61
Advance outwash:		
Sand and gravel	4	65
Sand and gravel, water-bearing	10	75

Casing, 6-inch, set to 66 feet; screen, No. 14 slot, set from 66 to 71 feet.

24/5-11N1. Bell and Valdez. About 1.5 miles east of Factoria. Altitude about 350 feet. Drilled by H. O. Meyer, 1952.

Vashon drift:		
Till:		
"Hardpan"	5	5
"Hardpan" and gravel, water-bearing at 8 ft	13	18
Sand, clay, and gravel	5	23
Gravel, and clay, water-bearing	9	32
Clay, yellow, sand and gravel	7	39
Gravel, medium, and sand, water-bearing	2	41
Sand and gravel	2	43
"Hardpan", water-bearing	3	46
"Hardpan", blue	1½	47½
Gravel, coarse, and 20% sand	3	50½
Gravel, fine, some sand, bailed down	1½	52
"Hardpan"	½	52½
Gravel, medium, and sand, coarse	4½	57
Gravel, coarse	2	59
"Hardpan"	½	59½
Gravel, coarse	1½	61

(continued next page)

Table 3.--Materials penetrated by representative wells.--Con.

24/5-11N1. Continued.

Materials	Thickness (feet)	Depth (feet)
Gravel, coarse, sand and thin layer of "hardpan".	10	71
Gravel, medium thin layers of "hardpan".	3	74
Advance outwash:		
Sand.	5	79
Gravel, coarse and sand, medium .	½	79½
Hard layer, water-bearing	1	80½
Gravel and sand.	1½	82
Admiralty drift:		
Silt.	28	110
Sand.	2	112
Clay.	10	122
Sand, coarse.	1	123
Sand, silt, and clay.	4	127
Sand, gray.	2	129
Sand, silt, and clay.	13	142
"Hardpan" (Till)?	9	151
Tertiary rocks:		
Marine sedimentary beds:		
Clay, blue or shale	89	240
Sand, gray.	8	248
Clay, blue.	25	273
Sandstone, lavender	67	340

Casing, 12-inch, set to 78 feet. Screen, No. 100 slot, set from 78 to 83 feet.

24/5-13A1. Henry Isaacson. South shore of Lake Sammamish. Altitude about 80 feet. Drilled by N. C. Jannsen, 1933.

Admiralty drift:		
Clay.	6	6
Sand and "mud".	19	25
Clay, blue, hard.	80	105
"Boulders", water-bearing	9	114
Sand, soft.	43	157
Sand, black.	94	251
Clay, sandy.	54	305

Casing, 6-inch.

Table 3.--Materials penetrated by representative wells.--Con.

24/5-13D1. Tweeter. North slope of Newcastle Hill. Altitude about 400 feet. Drilled by C. Dorsten, 1952.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Till:		
"Hardpan" and boulders.	45	45
Sand and gravel, water-bearing. . . .	5	50
"Hardpan" and boulders.	60	110
Tertiary rocks:		
Marine sedimentary beds:		
Siltstone, gray.	90	200

Casing, 6-inch, set to 110 feet. Backfilled to 50 feet and hole blown in casing at that point.

24/5-13N1. Ersel Lockridge. North slope of Newcastle Hill. Altitude about 700 feet. Drilled by H. O. Meyer.

Dug well.	24	24
Vashon drift:		
Advance outwash:		
Clay, blue, sandy	33	57
Clay, brown.	6	63
Sand and gravel, pieces of wood . . .	3	66
Clay, green, firm.	23	89
Clay, brown, wood chips.	11	100
Clay, green, and gravel.	12	112
Clay, cream-colored.	8	120
Clay, brown.	6	126
Clay, green, and gravel	14	140
Clay, green.	25	165
Tertiary rocks:		
Marine sedimentary beds:		
"Sandstone", dark green, water-bearing	52	217

Casing, 6-inch, set to 130 feet.

24/5-14H1. G. E. Hall. North slope of Newcastle Hill. Altitude about 550 feet. Drilled by H. O. Meyer.

No record.	280	280
Tertiary rocks:		
Marine sedimentary beds:		
"Soft".	7	287
"Hard".	3	290
"Schist" and clay (shale?)	5	295
"Hard".	5	300
"Soft".	28	328
"Hard".	5	333
Clay (shale?)	17	350
"Soft".	8	358

(continued next page)

Table 3.--Materials penetrated by representative wells.--Con.

24/5-14H1.--Continued

Materials	Thickness (feet)	Depth (feet)
"Schist", hard.	7	365
Clay (shale?)	10	375
"Hard".	10	385
Sandy, hard (sandstone?	25	410
Clay, gray (shale?)	4	414
Clay, gray, with a few hard spots (shale?).	21	435
Clay, gray, sandy, soft (shale?).	7	442
Clay (shale?).	8	450
Sand (sandstone?).	15	465
Clay (shale?).	20	485
Clay, hard and sandstone, laminated	15	500
Clay, solidified (shale?). . . .	10	510
Clay (shale?).	10	520
"Quartz", brown, crystalline. . .	1	521
Clay (shale?).	5	526
Loose sloughings.	1	527
"Shale like".	3	530
Shale and clay.	8	538
Sandstone, gray-blue, water-bearing	2	540
Sandstone, gray-purple, water-bearing	1	541

Casing, 6-inch.

24/5-14J1. Joseph Liebsack. North slope of Newcastle Hill. Altitude about 700 feet. Drilled by H. O. Meyer, 1950.

Vashon drift:		
Recessional outwash:		
Topsoil.	3	3
Gravel.	7	10
Till:		
Gravel, sand and clay	15	25
Clay.	10	35
Clay, sand and gravel, fine . .	10	45
Tertiary rock:		
Marine sedimentary beds:		
Sandstone, water-bearing. . . .	292	337

Casing, 6-inch, set to 42 feet.

24/5-14R1. G. W. Bondo. North slope of Newcastle Hill. Altitude about 700 feet. Drilled by H. O. Meyer, 1952.

Vashon drift:		
Till:		
Gravel and boulders.	20	20
Tertiary rocks:		
Marine sedimentary beds:		
Sandstone, loose.	40	60
Sandstone, tight.	40	100
Sandstone, loose, water-bearing.	23	123

Casing, 6-inch, set to 60 feet.

Table 3.--Materials penetrated by representative wells.--Con.

24/5-16C1. Neil Brown. Factoria. Altitude about 160 feet. Drilled by H. O. Meyer.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Topsoil.	1	1
Recessional outwash:		
Clay, yellow.	3	4
Sand, brown.	3	7
Till:		
"Hardpan".	13	20
"Hardpan" and clay	16	36
Advance outwash:		
Sand and clay.	8	44
Sand and gravel, water-bearing .	4	48
Admiralty drift:		
Clay, blue.	17	65

Casing, 6-inch, set to 46 feet.

24/5-16F2. Rose S. Kibbler. About 1 mile south of Factoria. Altitude about 160 feet. Bored by T. Killian, 1951.

Vashon drift:		
Recessional outwash:		
Sand.	8	8
Till:		
"Hardpan"	22	30
Advance outwash:		
Sand.	23.5	53.5

Casing, 24-inch concrete tile set to 53.5 feet.

24/5-16F3. E. Mankin. About 1 mile south of Factoria. Altitude about 160 feet. Drilled by J. C. Maxwell, 1951.

Vashon drift:		
Recessional outwash:		
Sand.	10	10
Clay, yellow, sand and gravel. .	2	12
Till:		
"Hardpan", sandy.	28	40
Advance outwash:		
Sand, "mucky".	15	55
Sand and gravel.	8	63
Gravel, water-bearing.	1	64

Casing, 6-inch, set to 64 feet.

Table 3.--Materials penetrated by representative wells.--Con.

24/5-16H3. C. D. Smith. About 1 mile south of Factoria. Altitude about 245 feet. Drilled by R. A. Lueck, 1951.

Materials	Thickness (feet)	Depth (feet)
Orting gravel:		
Kitsap clay member:		
Topsoil	16	16
Clay	68	84
Sand, water-bearing	2	86
Tertiary rocks:		
Marine sedimentary beds:		
Shale	2	88

Casing, 6-inch, set to 86 feet.

24/5-16J1. H. S. Karrasch. About 1 mile south of Factoria. Altitude about 300 feet. Drilled by H. O. Meyer, 1951.

Materials	Thickness (feet)	Depth (feet)
Tertiary rocks:		
Marine sedimentary beds:		
Siltstone	180	180

Casing, 6-inch, set to 45 feet.

24/5-16M1. Jack R. Cluck. Lake Heights Well No. 1. About 1.25 mile south of Factoria. Altitude about 65 feet. Drilled by J. J. Bell, 1951.

Materials	Thickness (feet)	Depth (feet)
Alluvium:		
Sandy soil	7	7
Gravel, sand and clay	2	9
Clay, brown, and gravel	10	19
Pleistocene and Tertiary deposits undifferentiated:		
Clay, blue, and gravel	17	36
"Shale", blue	4	40
Clay, blue	45	85
Clay, blue, sand and gravel, very hard	20	105
Clay, blue, "fat"	169	274
Sand and "shale", blue, intercalated	3	277

Casing, 6-inch, set to 277 feet.

Table 3.--Materials penetrated by representative wells.--Con.

24/5-16N1. Jack R. Cluck. Lake Heights Well No. 2. About 1.5 mile south of Factoria. Altitude about 225 feet. Drilled by H. O. Meyer, 1952.

Materials	Thickness (feet)	Depth (feet)
Orting gravel:		
Kitsap clay member:		
Sand.	7	7
Clay.	23	30
Clay and "hardpan".	80	110
Lower member:		
Gravel and "hardpan".	20	130
Gravel.	15	145
Peat.	1	146
Gravel and sand, coarse	4	150
"Hardpan", and silt.	20	170

Casing, 6-inch, set to 140 feet; screen, No. 20 slot, set from 140 to 150 feet.

24/5-18B1. M. I. Stucky. North end of Mercer Island. Altitude about 325 feet. Drilled by Bretz.

Materials	Thickness (feet)	Depth (feet)
Orting gravel:		
Kitsap clay member:		
Silt, brown, sand, and clay. . .	60	60
Sand, fine.	5	65
Clay, blue.	205	270

Casing, 48-inch, set to 60 feet. Test hole drilled from 65 to 270 feet.

24/5-18G1. M. E. Kristoferson. North end of Mercer Island. Altitude about 350 feet. Drilled by St. Peter, 1951.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Till:		
"Hardpan".	75	75
Advance outwash:		
Sand and gravel.	70	145

Casing, 20-inch, set to 145 feet; perforated from 125 to 145 feet.

Table 3.--Materials penetrated by representative wells.--Con.

24/5-19D1. O. P. Bonifaci. West side of Mercer Island. Altitude about 230 feet. Dug by owner, 1949.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Recessional outwash:		
Sand.	8	8
Till:		
"Hardpan"	2	10
Advance outwash:		
Sand and gravel	17	27

Casing, 30-inch, concrete tile, set to 27 feet.

24/5-19P1. Carl Alson. Mercer Island. Altitude about 300 feet. Drilled by Clyde Dorsten, 1953.

Vashon drift:		
Till:		
"Hardpan".	25	25
Advance outwash:		
Sand, coarse and gravel, fine .	6	31
Sand, coarse.	2	33
Sand, medium.	4	37
Sand, coarse.	2	39
Sand, medium	4	43

Casing, 6-inch, set to 43 feet. Perforated.

24/5-19P2. Carl Alson. Mercer Island. Altitude about 325 feet. Drilled by Clyde Dorsten, 1953.

Vashon drift:		
Till:		
"Hardpan".	50	50
Kitsap clay:		
Sand, fine	20	70
Clay, silty.	40	110
Clay, silty, interbedded with silt.	102	212

Casing, 6-inch, pulled back to 50 feet. Abandoned.

24/5-20H1. Oscar Granfelt. About 2 miles south of Factoria. Altitude about 240 feet. Drilled by H. O. Meyer, 1951.

Vashon drift:		
"Hardpan", porous.	100	100
Advance outwash:		
Sand.	80	180

Casing, 6-inch, set to 175 feet; screen, No. 14 slot, set from 174 to 180 feet.

Table 3.--Materials penetrated by representative wells.--Con.

24/5-23C1. Hilltop Community on Newcastle Hill. Altitude about 880 feet. Drilled by N. C. Jannsen, 1944.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Till:		
Clay, hard and roots	1	1
"Liquid mud"	12	13
"Clay hardpan" and gravel	11	24
Gravel, loose and mud	28	52
Tertiary rocks:		
Marine sedimentary beds:		
Sandstone, with streaks of clay, (shale?) water-bearing	260	312

Casing, 12-inch, set to 21 feet; 8-inch set to 65 feet.

24/5-24N2. Paschal. North slope of Newcastle Hill. Altitude about 1,115 feet. Drilled by H. O. Meyer, 1952

Tertiary rocks:		
Marine sedimentary beds:		
Brownish loose material	7	7
Sandstone	23	30
Hard layer	2	32
Sandstone	13	45
Clay, gray, some sand, very hard at 68 ft	23	68
Shale, gray	343	411
Sandstone, coarse	6	417
Shale, gray, siltstone in layers, water-bearing	43	460
Shale, gray	90	550

Abandoned.

24/5-24Q1. R. Dowling. North slope of Newcastle Hill. Altitude about 1,010 feet. Drilled by H. O. Meyer, 1951.

Vashon drift:		
Till:		
"Hardpan" and boulders	40	40
Tertiary rocks:		
Marine sedimentary beds:		
Shale	30	70
Sandstone, water-bearing	31	101

Casing, 6-inch, set to 60 feet.

Table 3.--Materials penetrated by representative wells.--Con.

24/5-24Q2. B. Price. North slope of Newcastle Hill. Altitude about 1,070 feet. Drilled by H. O. Meyer, 1952.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Till:		
Topsoil and boulders	15	15
Sand and gravel	3	18
Gravel and boulders	7	25
Advance outwash:		
Sand, brown	22	47
Gravel and sand, water-bearing	4	51
Clay	2	53
Tertiary rocks:		
Marine sedimentary beds:		
Shale	11	64
"Black rock"	21	85
Sandstone, brown	5	90
Sandstone, black, water-bearing	70	160
Sandstone, gray	40	200
Sandstone, purple	3	203

Casing, 6-inch, set to 74 feet.

24/5-29B1. H. O. Marshall. About 3 miles south of Factoria. Altitude about 260 feet. Dug.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Till:		
"Hardpan"	24	24
Advance outwash:		
Sand and gravel	4	28

Casing, 36-inch, set to 28 feet.

24/5-29K1. Joseph Chideak. About 3.25 miles south of Factoria. Altitude about 30 feet. Drilled by J. J. Bell, 1944.

Materials	Thickness (feet)	Depth (feet)
Admiralty drift:		
Clay, brown and gravel	40	40
"Hardpan"	10	50
Silt, blue and gravel	35	85
Gravel and "rock", blue, cemented	162	247
Clay, blue	3	250
Gravel and boulders, cemented	110	360
Clay, varicolored	20	380
Clay, blue	20	400

Casing, 6-inch, set to 80 feet.

Table 3.--Materials penetrated by representative wells.--Con.

24/5-29K2. Joseph Chideak. About 3.25 miles south of Factoria. Altitude about 25 feet. Drilled by J. J. Bell, 1944.

Materials	Thickness (feet)	Depth (feet)
Admiralty drift:		
Clay, brown, sandy	6	6
Clay, blue	16	22
Gravel and clay, water-bearing	5	27
Silt, blue	25	52
Gravel and clay, water-bearing	5	57
Clay, blue, hard	15	72

Casing, 6-inch, set to 72 feet; perforated from 40 to 60 feet.

24/5-29Q1. Ivan L. Shaw. About 3.5 miles south of Factoria. Altitude about 75 feet. Drilled by J. J. Bell.

Materials	Thickness (feet)	Depth (feet)
Admiralty drift:		
Clay	70	70
Sand and gravel, water-bearing	2	72

Casing, 6-inch, set to 72 feet.

24/5-32J1. A. A. Brewer. About 4 miles south of Factoria. Altitude about 330 feet. Drilled by J. J. Bell.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Till:		
"Hardpan" and clay	81	81
Advance outwash:		
Sand and gravel, dry	42	123
Orting gravel:		
Kitsap clay member:		
Sand, brown, hard, and clay	30	153
"Hardpan", blue	15	168
Lower member:		
Sand and gravel, brown, water-bearing	16	216
Sand, blue, water-bearing	29	245
Sand, brown, dirty, water-bearing	--	--

Casing, 6-inch, set to 240 feet; screen, No. 16 slot, set from 240 to 245 feet.

24/6-4E1. Jim Harvey. About 1 mile north of Pine Lake. Altitude about 375 feet. Drilled by H. O. Meyer.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Till:		
"Hardpan"	160	160
Advance outwash:		
Gravel, loose	26	186

Casing, 6-inch, set to 186 feet; perforated from 176 to 186 feet.

Table 3.--Materials penetrated by representative wells.--Con.

24/6-4N1. Pine Lake Community Club. Altitude about 417 feet. Drilled by H. O. Meyer, 1952.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Recessional outwash:		
Sand and gravel	2	2
Gravel, coarse	4	6
Till:		
"Hardpan"	14	20
Sand and "hardpan"	4	24
Sand, water-bearing	4	28
"Hardpan"	22	50
Gravel, dry	6	56
"Hardpan"	9	65
Advance outwash:		
Gravel, coarse and sand	23	88
Clay and sand	3	91
Sand and clay	2	93
Gravel, medium, and sand, yellow	31	124
Gravel, coarse	2	126
Gravel, fine, and sand	7	133
Sand and clay	5	138
Gravel and sand	1	139
Gravel, coarse	3	142
Sand and gravel	3	145
"Hardpan" and gravel, fine	3	148
Gravel, coarse	4	152
Gravel, sand and clay	3	155
Sand, coarse to fine	11	166
Sand, fine	18	184
Sand, brown	7	191
Sand, gray, water-bearing	6	197
Sand, gray, fine	10	207
Kitsap clay member:		
Clay, gray	15	222
"Hardpan", gray, coarse	8	230
"Hardpan", gravel, coarse, and clay	4	234
Clay, sand and gravel	2	236
Gravel, coarse, water-bearing	2	238
"Hardpan"	2	240
Gravel, coarse, water-bearing	7	247
"Hardpan"	1	248
Gravel	6	254
Clay and sand	5	261
Gravel	2	263
Clay and gravel	3	266
Clay, blue, and sand	4	270
Gravel, water-bearing	2	272
"Hardpan", clay and sand	1	273
Gravel and sand, coarse	6	279
"Hardpan", clay and sand	1	280

(continued next page)

Table 3.--Materials penetrated by representative wells.--Con.

24/6-4N1.--Continued

Materials	Thickness (feet)	Depth (feet)
Gravel and sand, coarse.	5	285
Sand, coarse, and gravel, fine .	6	291
Clay, gray, hard.	9	300

Casing, 10-inch, set to 261 feet; 8-inch, set from 250 to 300 feet; perforated, from 273 to 288 feet.

24/6-8D1. H. F. Woods. About 1 mile west of Pine Lake. Altitude about 407 feet. Drilled by H. O. Meyer, 1951.

Vashon drift:		
Till:		
Topsoil.	4	4
"Hardpan" and gravel	16	20
"Hardpan" and sand	20	40
Sand and clay.	16	56
Gravel	4	60
"Hardpan" and gravel	20	80
Advance outwash:		
Sand and gravel, fine, water-bearing	5	85
Gravel, fine, and sand.	12	97
Sand and clay.	13	110
Clay.	10	120
"Hardpan" and gravel.	8	128
Gravel.	4	132
Clay, blue, sand, and gravel, water-bearing	8	140
Sand and gravel, water-bearing . . .	8	148
Clay, blue.	3	151
Sand and clay, brown.	11	162
"Hardpan" and gravel.	6	168
Gravel, coarse.	7	175
"Hardpan" and clay.	4	179
Clay, water-bearing.	2	181
Gravel, coarse.	9	190
"Boulders".	1	191
Sand, gravel and clay	8	199
Gravel.	1	200
Orting gravel:		
Kitsap clay member:		
Clay and sand.	12	212
Clay, brown, and sand.	43	255
Clay, blue.	10	265
Clay, blue, sand and gravel	72	337

Casing, 6-inch, set to 300 feet; 4-inch, set from 275 to 334 feet.

Table 3.--Materials penetrated by representative wells.--Con.

24/6-8F1. Edwin Bond. About 1 mile southwest of Pine Lake. Altitude about 380 feet. Drilled by H. O. Meyer, 1950.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Till:		
Topsoil	2	2
"Hardpan"	26	28
"Hardpan" and gravel, coarse	22	50
Sand	5	55
Sand and clay	17	72
"Hardpan", "rock", large, and gravel, coarse	28	100
Clay	8	108
"Hardpan"	12	120
Clay and "hardpan"	20	140
Advance outwash:		
Gravel, loose, water-bearing	6	146
"Hardpan" and gravel	6	152
Clay and sand	21	173
Gravel, water-bearing	15	188
Orting gravel:		
Kitsap clay member:		
Sand, clay, water-bearing	5	193
Silt, water-bearing	5	198
Clay, laminated	22	220
Clay, hard	70	290
Silt	28	318
Clay, blue, laminated	12	330
Clay, gray, soft	6	336
Lower member:		
Gravel	6	342

Casing, 6-inch, set to 342 feet; perforated for 18 inches at about 340 feet.

24/6-8K1. Erickson & Sons. About 1 mile southwest of Pine Lake. Altitude about 428 feet. Dug by Erickson, 1931.

Vashon drift:		
Till:		
Topsoil	2	2
"Hardpan"	60	62
Advance outwash:		
Gravel, coarse, and sand	50	112
Puyallup sand:		
Sand	48	160
Sand, cemented	2	162
Sand, fine	10	172
Orting gravel:		
Kitsap clay member:		
Clay, blue	--	--

Casing, 32-inch, plastered to 160 feet, 12-inch from 160 to 172 feet.

Table 3.--Materials penetrated by representative wells.--Cont.

24/6-9A3. Bill Hanson. East shore of Pine Lake. Altitude about 425 feet. Drilled by H. O. Meyer, 1950.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Recessional outwash:		
Gravel	18	18
Till:		
"Hardpan" and gravel, coarse	17	35
"Hardpan"	15	50
Gravel and "hardpan"	15	65
Advance outwash:		
Sand and gravel	5	70
Gravel, water-bearing	18	88
Gravel, clean, and water	8	96

Casing, 6-inch.

24/6-9G1. R. J. Swenson. South shore of Pine Lake. Altitude about 400 feet. Drilled by H. O. Meyer.

Vashon drift:		
Till:		
"Hardpan"	85	85
Puyallup sand:		
Sand	26	111

Casing, 6-inch, set to 105 feet; screen, No. 10 slot, set from 105 to 111 feet.

24/6-9H1. G. Peterson. Southeast shore of Pine Lake. Altitude about 410 feet. Drilled by H. O. Meyer, 1950.

Vashon drift:		
Till:		
"Hardpan"	80	80
Advance outwash:		
Gravel, coarse, and sand	21	101

Casing, 6-inch, set to 101 feet.

Table 3.--Materials penetrated by representative wells.--Con.

24/6-10E1. A. M. Braydon. About 0.25 mile east of Pine Lake. Altitude about 430 feet. Drilled by H. O. Meyer, 1947.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Topsoil	3	3
Recessional outwash:		
Gravel	7	10
Advance outwash:		
Clay and sand	6	16
Gravel, water-bearing	8	24
Gravel and sand	20	44
Clay and sand	16	60
Gravel	84	144

Casing, 6-inch, set to 144 feet.

24/6-10Q1. H. Shultz. About 1.5 miles southeast of Pine Lake. Altitude about 390 feet. Drilled by H. O. Meyer.

Vashon drift:		
Till:		
Topsoil	4	4
"Hardpan"	27	31
Advance outwash:		
Sand and gravel, water-bearing	20	51

Casing, 6-inch, set to 51 feet.

24/6-10P1. Phillip Frink. About 1 mile southeast of Pine Lake. Altitude about 350 feet. Drilled by H. O. Meyer, 1952.

Vashon drift:		
Recessional outwash:		
Gravel	6	6
Till:		
"Hardpan"	12	18
"Hardpan" and gravel	12	30
"Hardpan", soft, water-bearing	1	31
"Hardpan" and gravel	18	49
Advance outwash:		
Sand, water-bearing	5	54
Gravel, water-bearing	5	59

Casing, 6-inch, set to 59 feet.

Table 3.--Materials penetrated by representative wells.--Con.

24/6-14P1. J. H. Mills. About 2.5 miles northeast of Issaquah. Altitude about 375 feet. Drilled by H.O. Meyer

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Till:		
"Hardpan"	10	10
Gravel	1	11
"Hardpan"	51	62
Advance outwash:		
Sand, brown, fine, and gravel, water-bearing	13	75
Sand, medium, and gravel, fine	20	95
Sand, coarse, and gravel, fine	6	101

Casing, 6-inch, set to 101 feet.

24/6-15B2. P. J. Hobbs. About 1.5 miles southeast of Pine Lake. Altitude about 410 feet. Drilled by H. O. Meyer, 1949.

Vashon drift:		
Till:		
Topsoil	3	3
"Hardpan"	5	8
Advance outwash:		
Sand and gravel	12	20
Gravel	5	25
Sand, clay, and gravel, fine	22	47
Sand, gravel, and clay, water-bearing	4	51
Sand and gravel, water-bearing	9	60

Casing, 4-inch, set to 60 feet.

24/6-16E1. R. G. Haldeman. About 3 miles north of Issaquah. Altitude about 150 feet. Drilled by H. O. Meyer.

Sorting gravel:		
Kitsap clay member:		
Clay, yellow	22	22
Clay, blue	13	35
Sand	1	36
Clay, blue	10	46
Sand	1	47
Clay, blue	53	100
Clay, blue, and sand	50	150
Silt and sand	34	184
Sand, coarse, water-bearing	16	200
Silt and clay	27	227

Casing, 6-inch, set to 191 feet; screen, set from 191 to 196 feet.

Table 3.--Materials penetrated by representative wells.--Con.

24/6-18E1. A. J. Peters, Jr. About 3 miles northwest of Issaquah. Altitude about 80 feet. Dug by A. J. Peters, Jr., 1952.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Till:		
Clay	6	6
"Hardpan"	18	24
Gravel, dry	6	30
Sand, gravel, and "hardpan"	5	35
"Hardpan" and sand, interbedded	5	40

24/6-19L1. A. Perrow. North slope of Newcastle Hill. Altitude about 750 feet.

Vashon drift:		
Till:		
"Hardpan"	66	66
Tertiary rocks:		
Marine sedimentary beds:		
Shale	1	67

24/6-19P1. Tiemeyer & Perrow. North slope of Newcastle Hill. Altitude about 750 feet. Drilled by J. J. Bell, 1953.

Vashon drift undifferentiated:		
Topsoil	2	2
Clay, brown, sand and pebbles	20	22
Tertiary rocks:		
Marine sedimentary beds:		
Shale, vari-colored	48	70
Sandstone, laminated, blue, water-bearing	75	145
Silt, hard, blue	105	250
Silt, hard, blue, and sand	5	255

Casing, 8-inch, set to 65 feet.

24/6-19R1. W. F. Tiemeyer. North slope of Newcastle Hill. Altitude about 725 feet. Dug by E. Miller.

Vashon drift:		
Till:		
"Hardpan"	24	24
Sand and gravel	3	27

Casing, 36-inch, set to 27 feet.

Table 3.--Materials penetrated by representative wells.--Con.

24/6-22H1. G. W. Sherrell. About 1.5 miles northeast of Issaquah. Altitude about 440 feet. Drilled by C. Olson.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Recessional outwash:		
Sand and gravel.	12	12
Till:		
"Hardpan".	39	51
Advance outwash:		
Sand and gravel.	3	54

Casing, 48-inch concrete tile set to 12 feet.

24/6-22L2. Bert Keleman. About 1.25 miles northeast of Issaquah. Altitude about 375 feet. Drilled by H. O. Meyer, 1950

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Recessional outwash:		
Topsoil.	3	3
"Boulders" and gravel.	12	15
Tertiary rocks:		
Marine sedimentary beds:		
Sandstone, shale, and clay, in alternate layers.	105	120
Gravel, loose, water-bearing	7	127
Sandstone.	11	138

Casing, 6-inch.

24/6-27D1. Lakeside Gravel Co. Issaquah. Altitude about 75 feet. Drilled by Safely.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Recessional outwash:		
Sand and gravel.	11	11
Till:		
"Hardpan".	9	20
Gravel, coarse, water-bearing. . . .	2	22
"Hardpan".	19	41
Advance outwash:		
Gravel, coarse, water-bearing. . . .	7	48
Gravel, medium, water-bearing. . . .	10.5	58.5

Casing, 12-inch.

Table 3.--Materials penetrated by representative wells.--Con.

24/6-27D2. Lakeside Gravel Co. Issaquah. Altitude about 80 feet. Drilled by L. R. Gaudio.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Recessional outwash:		
Sand and gravel	16	16
Till:		
Sand, brown, clay, and gravel	14	30
Advance outwash:		
Gravel, coarse, clean, brown	12	42
Gravel, coarse, black, muddy	4	46

Casing, 12-inch, set to 33 feet; screen, No. 100 slot, set from 31 to 42 feet.

24/6-27D3. Lakeside Gravel Co. Issaquah. Altitude about 75 feet. Drilled by L. R. Gaudio.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Till:		
"Hardpan"	30	30
Clay, yellow	1	31
Advance outwash:		
Sand	21	52
Gravel and sand, tight, water-bearing	10	62

Casing, 12-inch, set to 52 feet; screen, No. 100 slot, set from 52 to 62 feet.

24/6-27R2. Town of Issaquah. Altitude about 200 feet. Drilled by A. A. Day, 1948.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Recessional outwash:		
"Boulder slide"	32	32
Orting gravel:		
Kitsap clay member:		
Clay, blue	80	112
Tertiary rocks:		
Marine sedimentary beds:		
Sandstone and shale	78	190
Sand and gravel (conglomerate)	110	300

Casing, 8-inch, set to 280 feet; screen, set from 280 to 300 feet.

Table 3.--Materials penetrated by representative wells.--Con.

24/6-28J1. Issaquah Creamery Company. Issaquah. Altitude about 80 feet. Drilled by R. P. Safely, 1949.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Till:		
Topsoil	3	3
"Hardpan" and "rocks"	5	8
"Hardpan", yellow	17	25
Gravel, water-bearing	5	30
"Hardpan", clay, yellow, and gravel	2	32
Advance outwash:		
Gravel, fine, and sand	10	42
Gravel, fine, sand, brown, and "basalt", water-bearing	12	54

Casing, 12-inch, set to 54 feet; perforated from 40 to 50 feet.

24/7-4L1. Gordon Ransom. About 2 miles northwest of Fall City. Altitude about 85 feet. Dug, 1930.

Recent alluvium:		
Soil	11	11
Sand	8	19
Gravel	5	24
"Quicksand"	--	--

Casing, 24-inch, tile, set to 23 feet.

24/7-8J1. W. E. Boeing. About 1.75 miles west of Fall City. Altitude about 95 feet. Drilled by H. O. Meyer, 1952.

Vashon drift:		
Recessional outwash:		
Gravel	15	15
Admiralty drift:		
Clay, yellow	15	30
Sand, water-bearing	33	63
Clay and silt	35	98
Sand, fine	6	104
Silt, rocks, clay	16	120
Clay	10	130

Casing, 6-inch, set to 98 feet; screen, No. 10 slot, set from 98 to 104 feet.

Table 3.--Materials penetrated by representative wells.--Con.

24/7-9E1. F. Crittenden. About 2 miles west of Fall City. Altitude about 80 feet. Drilled by H. O. Meyer, 1946.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Till:		
"Hardpan", loose.	35	35
Advance outwash:		
Clay and sand.	15	50
Sand, coarse, sharp.	15	65

Casing, 6-inch, set to 59 feet; screen, set from 59 to 65 feet.

24/7-10C1. C. F. Alexander. About 1 mile north of Fall City. Altitude about 79 feet. Drilled by H. O. Meyer, 1951.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Till:		
Topsoil.	3	3
"Hardpan".	22	25
Advance outwash:		
Gravel.	27	52
Clay, blue.	--	--

Casing, 8-inch, set to 52 feet; perforated from 25 to 49 feet.

24/7-21A1. Mrs. Grace Johnson. About 1 mile southwest of Fall City. Altitude about 400 feet. Drilled by H. O. Meyer, 1951.

Materials	Thickness (feet)	Depth (feet)
Vashon drift, undifferentiated:		
Topsoil	3	3
Sand, brown, and clay.	15	18
Clay, blue, and sand.	72	90
Sand.	1	91
Clay, blue-gray.	9	100
Clay, gray, and sand.	50	150
Clay, brown.	10	160
Clay, soft, and sand.	24	184
Gravel, fine.	1	185
Clay and sand.	3	188
Gravel and clay, water-bearing. .	12	200
Gravel, water-bearing.	1	201
Clay, water-bearing.	44	245
Gravel, coarse, water-bearing . .	12	257
Clay, gray.	14	271
Sand.	12	283

Casing, 6-inch, set to 250 feet; 4-inch, set from 240 to 283 feet.

Table 3.--Materials penetrated by representative wells.--Con.

25/4-25G1. R. Reid. Bellevue. Altitude about 167 feet. Drilled by C. D. Marks, 1938.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Till:		
Topsoil	3	3
"Hardpan"	22	25
Admiralty drift:		
"Shot clay", blue	7	32
Clay, blue	20	52
Clay, blue, hard, slippery	8	60
Clay, blue, and sand, water-bearing	12	72
Clay, blue, sticky	8	80
"Shot clay", blue	2	82
Clay, blue, sandy	8	90
Clay, blue, and sandy layers	27	117
Clay, blue	11	128
Clay, blue, sticky	5	133
Clay, blue	1	134
Clay, blue, sandy, hard	11	145
Clay, blue, sticky	8	153
Clay, blue, sandy	10	163
Clay, blue, sticky	5	168
Clay, dry, "chippy"	7	175
Clay, blue, sticky	13	188
Clay, blue, hard	3	191
Clay, blue, soft	11	202
Clay, blue	4	206
Clay, blue, sticky	10	216
"Shale", blue, sand, hard	8	224
Silt, very fine	3	227
Clay, blue, dry	3	230
Clay, blue, sticky, soapy	1	231
Clay, blue, sticky	4	235
"Clay shale", blue	10	245
Clay, blue, sticky	12	257
"Shale", blue, cavey	4	261
"Shale", blue, hard	14	275
"Clay shale", blue, sticky	19	294
"Shale", blue, "chippy"	7	301
"Shale", blue, sticky, cavey	4	305
"Shale", blue, sticky	25	330
"Shale", blue, hard	16	346
"Shale", blue, soft	158	504
"Shot clay", and gravel, water-bearing	7	511
"Shale", blue, hard	19	530
Sand, fine	7	537
Sand, medium, rotten wood	5	542
Sand and gravel, coarse	2	544
Sand, fine, and gravel	7	551

(continued next page)

Table 3.--Materials penetrated by representative wells.--Con.

25/4-25G1.--Continued

Materials	Thickness (feet)	Depth (feet)
Sand, blue, fine	5	556
Gravel, coarse	1	557
Sand, coarse, and gravel	5	562
Gravel and clay	1	563

Casing, 10-inch, set to 300 feet; 8-inch, set from 300 to 535 feet; screen, 8-inch, set from 535 to 555 feet.

25/4-36A1. C. A. Glass. Bellevue. Altitude about 100 feet. Drilled by N. C. Jannsen, 1935.

Soil	10	10
Admiralty drift:		
Sand	2	12
Clay, blue	91	103
"Shale", blue	43	146
"Slate"	1	147
Sand, hard, muddy	5	152
"Shale", blue	10	162
Clay, blue	10	172
"Shale", blue	43	215
No record	30	245
"Shale"	7	252
"Shale", blue	32	284
"Quicksand"	1	285
"Quicksand" and clay, water-bearing	9	294

25/5-10C1. A. U. Chapman. About 1 mile north of Redmond. Altitude about 275 feet. Dug by Chapman.

Vashon drift:		
Till:		
Topsoil	6	6
"Hardpan"	3	9
Advance outwash:		
Sand	10	19
Gravel	30	49

Casing, 40-inch plaster.

Table 3.--Materials penetrated by representative wells.--Con.

25/5-1F1. Roy Markee. About 0.75 mile north of Redmond. Altitude about 350 feet. Dug by owner.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Till:		
Topsoil	4	4
"Hardpan"	1	5
Sand and gravel	7	12
"Hardpan"	1	13
Sand	10	23
"Hardpan"	--	--

Casing, 48-inch, plaster to 20 feet.

25/5-1R1. John G. Anderson. About 1 mile east of Redmond on road to Union Hill. Altitude about 45 feet. Drilled by H.O. Meyer.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Till:		
"Hardpan"	20	20
"Hardpan", clayey	15	35
Advance outwash:		
Sand and gravel	10	45

Casing, 6-inch, set to 45 feet; perforated, 18 inches near bottom of casing.

25/5-5H1. City of Kirkland, Well No. 6. Altitude about 244 feet. Drilled by L. R. Gaudio, 1952.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Advance outwash:		
Soil	2	2
Sand and some gravel, hardpacked, brown	18	20
Sand, fine, blue, water-bearing	7	27
Orting gravel:		
Kitsap clay member:		
Clay, sandy, blue	69	96
"Hardpan" and clay	19	115
Clay	4	119
Sand and gravel, dry	4	123
Clay, dark brown	17	140
Lower member:		
Sand, much wood, water-bearing	8	148
Sand and gravel, water-bearing	7	155
Sand, fine, dirty	10	165
Sand, fine, and gravel, fine	5	170
Sand and gravel	10	180
Sand and gravel, fine	10	190
Gravel and sand	18	208
"Hardpan"	--	--

Casing, 12-inch, set to 175 feet; 7-inch, set from 157 to 173½ feet; screen, No. 100 slot set from 173½ to 179 feet, No. 40 slot set from 179 to 189½ feet, No. 100 slot set from 189½ to 200 feet.

Table 3.--Materials penetrated by representative wells.--Con.

25/5-5R1. City of Kirkland, Well No. 7. Altitude about 240 feet. Drilled by L. R. Gaudio, 1952.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Till:		
Sand and gravel, cemented.	40	40
Advance outwash:		
Sand, loose, dirty, gray	15	55
Orting gravel:		
Kitsap clay member:		
Clay, brown, and sand.	5	60
Sand, fine, dirty, gray	35	95
Clay, gray.	10	105
Lower member:		
Sand, and some gravel, dirty, gray .	11	116
Sand and some gravel, lot of wood, gray.	12	128
Sand and gravel, loose, gray	14	142
Sand, fine, little gravel "hardpan", thin layer at 148 feet.	11	153
Sand and gravel, "rocks up to 3 inches, loose.	13	166
Sand and some gravel	3	169
Clay.	5	174
Sand and gravel, hardpacked.	16	190
Sand and gravel, coarse.	10	200
Sand and gravel, pebble size. . . .	7	207
Admiralty drift:		
Clay, gray.	8	215
Silt, gray.	10	225
Sand, medium, gray.	19	244
Silt with pebbles, gray.	11	255
Sand, medium, gray.	18	273

Casing, 12-inch, set to 158 feet; 7-inch set from 139 to 155 feet; 7-inch set from 160½ to 183½ feet; screen, No. 100 slot set from 155 to 160½ feet, No. 100 slot set from 183½ to 204 feet.

25/5-8P1. M. D. Howland. About 1 mile east of Hoghton. Altitude about 260 feet. Drilled.

Vashon drift:		
Till:		
"Hardpan", clayey.	30	30
Clay and gravel.	20	50
Advance outwash:		
Sand, black.	20	70

Casing, 4-inch.

Table 3.--Materials penetrated by representative wells.--Con.

25/5-10K2. I. A. Fladmark. About 1.5 miles west of Redmond on old black top road to Kirkland. Altitude about 370 feet. Drilled by H. O. Meyer, 1951.

Materials	Thickness (feet)	Depth (feet)
Puyallup sand:		
Sand.	12	12
Sand, coarse.	7	19
Sand and clay	6	25
Sand, coarse.	22	47
Gravel.	9	56
Sand.	8	64

Casing, 6-inch, set to 64 feet.

25/5-11M2. Fred Brown. About 1 mile west of Redmond on old road to Kirkland. Altitude about 300 feet. Drilled by H.O. Meyer, 1951.

Materials	Thickness (feet)	Depth (feet)
Orting gravel:		
Kitsap clay member:		
Clay, blue.	98	98
Gravel.	1	99
Clay.	11	110

Casing, 6-inch.

25/5-12D1. City of Redmond. City Park. Altitude about 47 feet. Drilled by H. O. Meyer.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Recessional outwash:		
Gravel, coarse, and sand.	18.5	18.5
Till:		
"Hardpan".	5.5	24
Gravel and sand, water-bearing. . .	1	25
"Hardpan".	5	30
Gravel, coarse, and sand, water-bearing	2	32
"Hardpan".	4	36
Gravel, clean, and sand, water-bearing	4	40
"Hardpan", and gravel, coarse . . .	1.5	41.5
Advance outwash:		
Gravel and sand, medium to coarse .	4.5	46
Gravel, coarse, and sand, coarse. .	10	56

Casing, 48-inch, set to 18 feet; 18-inch, set to 46 feet; 10-inch, set to 50 feet; screen, No. 60 slot, set from 50 to 56 feet. Gravel pack.

Table 3.--Materials penetrated by representative wells.--Con.

25/5-12G1. Frank Verral. About 0.75 mile east of Redmond. Altitude about 35 feet. Drilled by H. O. Meyer, 1950.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Recessional and advance outwash:		
Sand and gravel, dry.	7	7
Gravel, water-bearing.	5	12
Gravel and sand, dry.	10	22
Gravel, coarse, and sand, water-bearing.	3	25
Gravel and sand, loose, water-bearing.	6	31

Casing, 6-inch, set to 31 feet.

25/5-12G2. R. Gilbert. About 0.75 mile east of Redmond. Altitude about 35 feet. Drilled by H. O. Meyer, 1950.

Vashon drift:		
Recessional and advance outwash:		
Sand and gravel, dry.	7	7
Gravel, water-bearing	5	12
Gravel and sand, dry.	10	22
Gravel, coarse, and sand, water-bearing	3	25
Gravel and sand, loose, water-bearing	4	29

Casing, 6-inch, set to 29 feet.

25/5-14F1. A. T. Fleming. About 2 miles southwest of Redmond. Altitude about 335 feet. Drilled by H. O. Meyer, 1947.

Vashon drift:		
Till:		
Topsoil.	1.5	1.5
"Hardpan".	22.5	24
"Hardpan", sand and gravel water-bearing.	23	47
Advance outwash:		
Sand and gravel.	11	58
Orting gravel:		
Kitsap clay member:		
Clay, gray.	21	79
Silt, water-bearing.	18	97
Clay, gray.	23	120
Silt, water-bearing	20	140

Casing, 6-inch, set to 55 feet.

Table 3.--Materials penetrated by representative wells.--Con.

25/5-14H1. M. Corcoran. About 1 mile southwest of Redmond. Altitude about 190 feet. Dug by owner.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Till:		
Topsoil	3	3
"Hardpan"	23	26
Sand, black	--	--

Casing, 40-inch, brick to 26 feet.

25/5-14J1. G. Chandler. About 1.5 miles southwest of Redmond. Altitude about 230 feet. Drilled by H. O. Meyer, 1951.

Orting gravel:		
Kitsap clay member:		
Clay, yellow	12	12
Clay, blue	41	53
Clay, blue, sandy, water-bearing	3	56
Clay, blue	10	66
Sand, fine, and clay	4	70
Sand, fine, and clay	118	188
Gravel, water-bearing	4	192

Casing, 6-inch, set to 192 feet.

25/5-14P1. W. H. Hanson. About 2 miles southwest of Redmond. Altitude about 350 feet. Drilled by J. J. Bell, 1949.

Vashon drift:		
Till:		
Topsoil	3	3
"Hardpan", brown	16	19
Advance outwash:		
Sand and clay, brown	24	43
Sand and gravel, brown	16	59
Sand and gravel, brown, water-bearing	37	96

Casing, 6-inch, set to 96 feet.

25/5-15H2. W. H. Scott. About 1.75 miles southwest of Redmond. Altitude about 340 feet. Dug.

Vashon drift:		
Till:		
Topsoil	3	3
"Hardpan"	20	23
Orting gravel:		
Kitsap clay member:		
Clay	35	58
Sand, blue	2	60

Casing, 36-inch.

Table 3.--Materials penetrated by representative wells.--Con.

25/5-16B2. George Thomas. About 1.5 miles east of Houghton. Altitude about 520 feet. Drilled by H. O. Meyer, 1948.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Till:		
Topsoil	8	8
"Hardpan"	62	60
Puyallup sand:		
Sand	40	100
Sand and gravel, water-bearing	19	119

Casing, 6-inch, set to 113 feet; screen 6-inch, No. 14 slot, set from 113 to 119 feet.

25/5-17C1. Mrs. Dora Ewing. Near Houghton. Altitude about 260 feet. Drilled by N. C. Jannsen, 1930.

Vashon drift:		
Till:		
"Hardpan"	22	22
Advance outwash:		
Sand and gravel	23	45
Sand, water-bearing	2	47

Casing, 6-inch, set to 41 feet; screen, 6-inch, set from 41 to 47 feet.

25/5-17C3. Lake Washington Shipyard. At Houghton. Altitude about 230 feet. Drilled by J. J. Bell.

Vashon drift:		
Advance outwash:		
Sand, yellow	25	25
Sand and gravel, gray, water-bearing	10	35
Sand, fine	30	65
Orting gravel:		
Kitsap clay member:		
Peat and silt	2	67
Clay, sandy, laminated	5	72
Sand, blue, water-bearing	2	74
Clay, blue, silty	20	94
Clay, brown	2	96
Lower member:		
Sand and gravel, cemented, water-bearing	2	98
Gravel, coarse, water-bearing	6	104
Sand and gravel, loose	4	108
Sand and gravel, hard	7	115

Casing, 10-inch, set to 105 feet; screen, No. 30 slot, set from 105 to 115 feet.

Table 3.--Materials penetrated by representative wells.--Con.

25/5-17H2. D. Mason. Altitude about 375 feet. Drilled by H. O. Meyer.

Materials	Thickness (feet)	Depth (feet)
Dug-no record.	20	20
Puyallup sand:		
Sand, brown, medium.	40	60

Casing, 6-inch, set to 60 feet.

25/5-17J1. City of Kirkland, Well No. 5. Altitude about 380 feet. Drilled by H. O. Meyer, 1949.

Vashon drift:		
Advance outwash:		
Sand and "hardpan".	12	12
Quicksand.	28	40
Clay and sand.	8	48
"Hardpan" and sand.	4	52
Clay, water-bearing	4	56
Clay and sand.	17	73
Sand.	18	91
Clay.	2	93
Sand.	3	96
Sand and clay.	10	106
Sand and clay, water-bearing. . .	11	117
Sand, water-bearing.	2	119
Clay.	4	123
Sand, fine.	3	126
Sand, coarser, water-bearing. . .	3	129
Sand and clay.	4	133
"Hardpan" and clay.	10	143
Sand, water-bearing.	2	145
Sand and clay.	4	149
Clay.	6	155
Sand, water-bearing	10	165
Sand and clay.	10	175
"Hardpan", sand, gray and clay. .	3	178
Gravel.	22	200

Casing, 12-inch, set to 180 feet; screen, No. 30 slot, set from 180 to 200 feet.

Table 3.--Materials penetrated by representative wells.--Con.

25/5-17Q1. City of Kirkland, Well No. 1. Altitude 230.1 feet. Drilled by W. E. Petersen, 1943.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Advance outwash:		
Topsoil	10	10
Clay	10	20
Gravel and sand	10	30
Sand	5	35
Gravel, water-bearing	5	40
Sand	20	60
Orting gravel:		
Kitsap clay member:		
Clay	8	68
Sand, fine	12	80
Sand	20	100
Lower member:		
Gravel, water-bearing	8	108

Casing, 8-inch, set to 68 feet; 6-inch, set from 57 to 96 feet; screen, set from 96 to 108 feet.

25/5-17Q2. City of Kirkland, Well No. 4. Altitude about 225 feet. Drilled by Ralph Bennett, 1944.

Vashon drift:		
Advance outwash:		
Sand	25	25
Sand, coarse	13	38
Gravel, water-bearing	15	53
Sand, fine	3	56
Orting gravel:		
Kitsap clay member:		
Clay, blue	7	63
Sand	10	73
Clay	5	78
Sand	5	83
"Quicksand"	3	86
Clay	4	90
Lower member:		
Gravel, sand, and "rock"	18	108
Gravel, water-bearing	23	131

Casing, 10-inch, set to 111 feet; screen, 9-inch, No. 20 slot, set from 111 to 131 feet.

Table 3.--Materials penetrated by representative wells.--Con.

25/5-17R1. City of Kirkland, Well No. 2. Altitude 257.3 feet. Drilled by W. E. Peterson.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Advance outwash:		
Topsoil	10	10
Clay, brown	20	30
Sand, brown	30	60
Gravel and sand, water-bearing	10	70
Orting gravel		
Kitsap clay member:		
Clay, gray, sandy	40	110
Sand	25	135
"Hardpan"	2	137
Lower member:		
Gravel, water-bearing	11	148

Casing, 8-inch, set to 125 feet; screen, 6-inch, set from 126 to 148 feet.

25/5-19N1. Water District No. 68. Bellevue. Altitude about 65 feet. Drilled by L. R. Gaudio, 1950.

Admiralty drift:		
Soil	2	2
Clay	13	15
Clay and sand	7	22
"Hardpan"	10	32
Clay and sand, water-bearing	61	93
Sand and clay	6	99
Sand with clay	5	104
Sand and clay	76	180
Clay and sand, trace of gravel, fine	48	228
Sand	3	231
Clay with gravel, fine	10	241
Clay with sand	3	244
Clay with gravel, fine	22	266
Clay, gray	30	296
Clay, sand and gravel, fine	37	333
Sand and gravel, clean	4	337
Clay, sand and gravel, fine	11	348
Sand and gravel, fine	4	352
Clay, sand and gravel, fine	2	354
Sand, gravel and clay	24	378
Sand	17	395
Clay	5	400
Sand	5	405
Clay	3	408
Sand and gravel, hardpacked	27	435
Clay	65	500

Test hole.

Table 3.--Materials penetrated by representative wells.--Con.

25/5-19Q1. Henry Holland. Bellevue. Altitude about 345 feet. Drilled by N. C. Jannsen, 1933.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Till:		
Sand and "rock".	17	17
Sand, brown, and gravel. . . .	14	31
Sand, gray, and "boulders" . . .	14	45
Advance outwash:		
Sand.	22	67
Sand, gray.	59	126
Sand.	18	144

Casing, 6-inch, set to 144 feet.

25/5-20F1. Water District No. 68, Well No. 3. Bellevue. Altitude about 50 feet. Drilled by N. C. Jannasen, 1947

Vashon drift:		
Recessional outwash:		
Clay.	5	5
Sand.	10	15
Sand, coarse.	17	32
Clay.	8	40
Advance outwash:		
Sand.	10	50
Sand and gravel.	15	65
Gravel.	20	85
Sand, coarse.	46	131
Sand, coarse, and gravel	45	176
Gravel.	62	228
Admiralty drift:		
Clay.	16	244

Casing, 12-inch, set to 244 feet; perforated from 60 to 244 feet.

25/5-20Q1. L. R. Shaeffer. About 1.25 miles north of Midlakes. Altitude about 160 feet. Drilled by H. O. Meyer, 1952.

Orting gravel;		
Kitsap clay member		
Clay, yellow.	10	10
Clay, blue.	15	25
"Hardpan".	7	32
Sand and clay, water-bearing. .	3	35
Lower member:		
Sand and gravel, coarse, water-bearing.	5	40
Clay.	0.5	40.5
Gravel and sand, coarse, water-bearing.	5.5	46

(continued next page)

Table 3.--Materials penetrated by representative wells.--Con.

25/5-20Q1.--Continued

Materials	Thickness (feet)	Depth (feet)
Clay, soft.	1	47
Sand and gravel, coarse . . .	9	56
Clay, brown.	0.5	56.5
Sand and gravel, coarse . . .	8.5	65

Casing, 8-inch, set to 55 feet; screen, No. 100 slot set from 55 to 65 feet.

25/5-21E1. Lars Nelson. About 1.5 miles north of Midlakes. Altitude about 250 feet. Drilled by Ralph Bennett, 1947.

Vashon drift:		
Till:		
Topsoil.	4	4
"Hardpan".	40	44
Advance outwash:		
Clay and sand.	36	80
Gravel.	10	90

Casing, 6-inch, set to 84 feet; screen set from 84 to 90 feet.

25/5-21F1. T. R. Pike. About 2 miles northeast of Bellevue. Altitude about 475 feet. Bored by Tom Killian, 1951.

Puyallup sand:		
Sand.	38	38
Sand and gravel	2	40

Casing, 24-inch, set to 40 feet.

25/5-21L2. H. J. Brown. About 1.5 miles north of Midlakes. Altitude about 400 feet. Drilled by H. O. Meyer, 1950.

Vashon drift:		
Till:		
Topsoil.	2	2
Sand, clay, and "hardpan"	16	18
Gravel, coarse.	2	20
"Hardpan" and sand.	30	50
Clay and sand, water-bearing . .	6	56
Clay, sand, and gravel.	4	60
Gravel.	2	62
Clay, sand, and "hardpan". . . .	12	74
Clay and sand.	9	83
Sand and "hardpan", water-bearing	2	85
Clay.	3	88
"Hardpan", water-bearing.	10	98

(continued next page)

Table 3.--Materials penetrated by representative wells.--Con.

25/5-21L2.--Continued

Materials	Thickness (feet)	Depth (feet)
Puyallup sand:		
Sand.	7	105
Sand, water-bearing	3	108
Clay.	4	112
Sand, silty, water-bearing.	3	115
Clay, blue.	4	119
Gravel and sand, brown.	4	123
Sand, brown.	4	127
Sand, brown, and gravel, fine, water-bearing.	10	137
Sand, gray and gravel, fine, water-bearing.	8	145
"Mud".	--	--

Casing, 6-inch, set to 145 feet.

25/5-21M1. R. V. Holland. About 1.5 miles north of Midlakes. Altitude about 200 feet. Drilled by H. O. Meyer, 1951.

Vashon drift:		
Till:		
Topsoil.	4	4
"Hardpan" and gravel	12	16
Sand, clay and gravel, fine.	19	35
Orting gravel:		
Kitsap clay member:		
Sand, water-bearing.	2	37
Sand and clay, intercalated.	23	60
"Hardpan", water-bearing	4	64
Gravel, coarse, water-bearing.	4	68
Clay.	--	--

Casing, 6-inch, set to 68 feet.

25/5-21Q1. M. G. Clark. About 1.25 miles northeast of Midlakes. Altitude about 456 feet. Drilled by Clyde Dorsten, 1951.

Vashon drift:		
Till:		
Topsoil.	3	3
"Hardpan", gray.	77	80
Puyallup sand:		
Sand.	20	100

Casing, 6-inch, set to 100 feet; perforated from 90 to 100 feet.

Table 3.--Materials penetrated by representative wells.--Con.

25/5-23C2. C. L. Nichols. About 3 miles northeast of Midlakes. Altitude about 360 feet. Drilled by H. O. Meyer, 1951.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Till:		
"Hardpan" and gravel.	65	65
Advance outwash:		
Sand, coarse, and gravel, fine, water-bearing.	15	80

Casing, 6-inch, set to 80 feet.

25/5-23C3. Neze Boyd. About 3 miles north of Midlakes. Altitude about 365 feet. Drilled by L. R. Gaudio.

No record.	20	20
Vashon drift:		
Till:		
"Hardpan".	25	45
Advance outwash:		
Sand, dry.	14	59
Gravel, loose, dry.	10	69
Clay, brown, and sand	9	78
Sand and gravel, coarse.	10	88

Casing, 6-inch.

25/5-23J2. Donald A. Becker. About 2.5 miles southwest of Redmond. Altitude about 375 feet. Drilled by H. O. Meyer, 1950.

Vashon drift:		
Recessional outwash:		
Topsoil.	2	2
Gravel, loose, and "dirt". . . .	5	7
Till:		
"Hardpan" and gravel.	10	17
Clay and sand.	28	45
"Hardpan" and gravel.	15	60
Advance outwash:		
Gravel and sand, water-bearing . .	5	65
Sand, clay, and gravel.	4	69
Gravel, coarse, and sand, water-bearing	12	81

Casing, 6-inch, set to 81 feet.

Table 3.--Materials penetrated by representative wells.--Con.

25/5-23Q3. Gerald Petri. About 3 miles southwest of Redmond. Altitude about 410 feet. Drilled by H. O. Meyer, 1951.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Till:		
Topsoil	2	2
Sand and clay	7	9
"Hardpan", gravel, and clay	9	18
"Hardpan", gravel, clay, and sand	10	28
"Hardpan"	46	74
Advance outwash:		
Gravel, loose, dry	7	81
Clay, yellow, and gravel	15	96
Gravel, loose, water-bearing	4	100

Casing, 6-inch, set to 100.

25/5-23Q4. Morrie Estrada. About 2.5 miles east of Midlakes. Altitude about 390 feet. Drilled by H. O. Meyer, 1951.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Recessional outwash:		
Topsoil and gravel	3	3
Till:		
Clay, gravel, and "hardpan"	37	40
Clay and sand	15	55
Advance outwash:		
Gravel, dry, washed	40	95
Gravel, water-bearing	8	103

Casing, 6-inch, set to 103 feet.

25/5-24G1. Clarence Breedman. About 2.25 miles south of Redmond. Altitude about 100 feet. Drilled by Bryant & Billingsley, 1947.

Materials	Thickness (feet)	Depth (feet)
Orting gravel:		
Kitsap clay member:		
Silt, clayey	30	30
Sand, blue	10	40
Admiralty drift:		
Clay, blue	300	340
Till and wood	10	350

Could not be drilled deeper because of hard material reported as bedrock. Abandoned.

Table 3.--Materials penetrated by representative wells.--Con.

25/5-24M1. A. C. Pfunder. About 2.5 miles southwest of Redmond. Altitude about 360 feet. Drilled by H. O. Meyer, 1948.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Till:		
Topsoil	5	5
"Hardpan"	45	50
Gravel and "hardpan"	10	60
Advance outwash:		
Gravel, coarse, water-bearing	10	70
Sand and clay	10	80
Clay, blue	4	84
Gravel, water-bearing	10	94

Casing, 4-inch, set to 94 feet.

25/5-24R1. Alex Buchenroth. About 3 miles south of Redmond, west side of Sammamish Lake. Altitude about 160 feet. Drilled by H. O. Meyer, 1950.

Vashon drift:		
Till:		
Topsoil	3	3
Sand, gravel, and clay	27	30
Orting gravel:		
Kitsap clay member:		
Sand and clay, water-bearing	14	44
"Hardpan"	18	62
Lower member:		
Sand, red, dirty, water-bearing	8	70
Sand, gray, fine	5	75

Casing, 6-inch, set to 70 feet; screen, set from 70 to 75 feet.

25/5-26H1 E. H. Andrews. About 3 miles east of Midlakes. Altitude about 430 feet. Drilled by J. J. Bell, 1941.

Vashon drift:		
Till:		
Topsoil	2	2
"Hardpan", brown	10	12
"Hardpan, gray	48	60
Advance outwash:		
Sand, gray-brown, and gravel	50	110
Gravel, brown, cemented	27	137
Puyallup sand:		
Sand, brown, and clay	19	156
Sand, brown, silty, clay, "rocks" water-bearing	51	207
Sand, coarse, dirty	33	240

Casing, 6-inch, set to 232 feet; screen, 4-inch, set from 232 to 240 feet.

Table 3.--Materials penetrated by representative wells.--Con.

25/5-28B1. Harold Lee Becker. About 1.25 miles northeast of Midlakes. Altitude about 350 feet. Drilled by H. O. Meyer, 1951.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Advance outwash:		
Sand and gravel	46	46
"Rock"	2	48
Gravel, dry	4	52
Sand and gravel, water-bearing	16	68
Clay, and gravel, coarse	7	75
Sand and gravel, water-bearing	11	86
Clay and gravel	3	89
Gravel, water-bearing	1	90

Casing, 6-inch, set to 90 feet.

25/5-28M1. M. Shimoyama. About 0.25 mile north of Midlakes, east side of 116 Ave. N. E. Altitude about 180 feet. Drilled by H. O. Meyer, 1949.

Materials	Thickness (feet)	Depth (feet)
Orting gravel:		
Kitsap clay member:		
Soil	2	2
Sand and clay	14	16
Sand, brown, and clay	14	30
Sand, gray	5	35
Clay	5	40
Lower member:		
Gravel and sand	10	50
Gravel, water-bearing	18	68

Casing, 6-inch, set to 68 feet.

25/5-28Q1. John Weyand. About 0.5 mile east of Midlakes. Altitude about 180 feet. Drilled by H. O. Meyer, 1951.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Till:		
Topsoil	1	1
"Hardpan", water-bearing	24	25
Clay, yellow	2	27
"Hardpan"	14	41
Clay, water-bearing	4	45
"Hardpan"	32	77
Orting gravel:		
Lower member:		
Gravel, water-bearing	13	90
"Hardpan", sandy	3	93
Sand and gravel, water-bearing	24	117

Casing, 6-inch, set to 117 feet.

Table 3.--Materials penetrated by representative wells.--Con.

25/5-29P1. City of Bellevue, Well No. 1, Bellevue. Altitude about 170 feet. Drilled by N. C. Jannsen, 1946.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Advance outwash:		
Sand	20	20
Sand and "boulders", large	10	30
Sand, fine and gravel, fine	30	60
Sand and gravel, hardpacked	10	70
Gravel, hard, and "rock"	13	83
Sand and gravel	15	98
Orting gravel:		
Kitsap clay member:		
Clay, sandy	24	122
Lower member:		
Sand	48	170
Gravel, hardpacked	9	179
Gravel	8	187
Admiralty drift:		
Clay	60	247
Gravel, fine	15	262
Clay, sandy	16	278
Sand	13	291
Clay	59	350
Clay, sandy	60	410
Sand	40	450
Clay	10	460
Clay, sandy	80	540
Sand	10	550
Gravel, loose	6	556
Pleistocene or Tertiary(?) deposits undifferentiated:		
"Sandstone", hard	18	574
Gravel	10	584
Clay	12	596
Gravel	25	621
Clay	19	640
Sand	10	650
Sand, hard, and gravel	10	660
Clay	30	690
Sand, fine, and gravel	20	710
Clay	216	926
Clay, sandy	49	975
Clay, sticky	19	994
Sand and "shale", interbedded	26	1020
Sand, gravel, fine, and "shale" interbedded	95	1115
Clay, sandy	10	1125

Casing, 24-inch, set to 170 feet; 18-inch, set to 641 feet; 12-inch, set from 641 to 1,125 feet; perforated from 247 to 370 feet, from 530 to 621 feet, and from 974 to 1,115 feet.

Table 3.--Materials penetrated by representative wells.--Con.

25/5-32M1. Water District No. 68. Bellevue. Altitude about 70 feet. Drilled by L. R. Gaudio, 1950.

Materials	Thickness (feet)	Depth (feet)
Admiralty drift:		
Clay, brown.	5	5
Clay and gravel.	25	30
Sand and gravel.	7	37
Clay.	12	49
Clay, sandy	31	80
Sand, heaving.	18	98
Sand, fine.	44	142
Sand, coarse.	8	150
Sand, fine.	40	190
Sand and gravel	5	195
Sand, fine, and clay	30	225
Sand, hardpacked, and clay	22	247
Sand, hardpacked, and gravel	9	256
Sand, fine, and clay.	3	259
Sand, fine.	18	277
Sand, fine, loose.	5	282
Sand, hardpacked.	12	294
Sand, fine.	24	318
Sand and gravel.	2	320
Sand, loose.	5	325
Sand, hardpacked, and clay	34	359
Clay, gravel, and sand (Till?)	8	367
Clay and gravel (Till?).	18	385
Clay, blue.	40	425
Sand, hardpacked, and clay	20	445
Sand, hardpacked.	2	447
Clay, blue.	3	450
Sand, hardpacked.	15	465
Sand, hardpacked, and clay	15	480
Clay and gravel (Till?)	8	488
Clay, blue.	77	565

Casing, 10-inch, set to 294 feet; 8-inch, set from 294 to 494 feet. Test hole.

Table 3.--Materials penetrated by representative wells.--Con.

25/5-32N1. City of Bellevue, Well No. 2. Altitude about 25 feet. Drilled by N. C. Jannsen, 1947.

Materials	Thickness (feet)	Depth (feet)
Admiralty drift:		
Soil	10	10
Clay, sandy	10	20
"Hardpan", with streaks of gravel	60	80
Sand	70	150
Sand, coarse	20	170
Sand, fine	80	250
Sand, coarse	10	260
Sand, medium	30	290
Sand	10	300
Sand, coarse	10	310
Sand	10	320
Sand and clay	10	330
Sand and gravel	10	340
Gravel, coarse	25	365
Clay, blue	13	378
Sand and gravel	80	458
Sand, coarse	5	463
Sand, hardpacked	59	522
Pleistocene or Tertiary (?) depoists undifferentiated:		
Sand and clay, dry	533	1055

Casing, 12-inch, set to 1,055 feet, sealed below 485 feet; perforated from 270 to 475 feet.

25/5-33B1. P. Van Kleeck. About 0.5 mile east of Midlakes. Altitude about 175 feet. Dug by owner.

Vashon drift:		
Till:		
Topsoil	4	4
"Hardpan"	18	22
Gravel, unsorted, clean	15	37

Casing, 32-inch concrete tile, set to 37 feet.

25/5-33F2. R. Johnson. About 0.5 mile southeast of Midlakes. Altitude about 210 feet. Dug by owner.

Orting gravel:		
Kitsap clay member:		
Topsoil	2	2
Clay, blue	58	60
Lower member:		
Gravel	25	85

Casing, 66-inch, concrete.

Table 3.--Materials penetrated by representative wells.--Con.

25/5-33G1. W. Van Kleeck. About 1.75 mile southeast of Midlakes. Altitude about 230 feet. Drilled by H.O. Meyer, 1951.

Materials	Thickness (feet)	Depth (feet)
Orting gravel:		
Kitsap clay member:		
Topsoil and clay, yellow and blue. . .	18	18
Gravel, water-bearing.	2	20
Clay, blue, water-bearing.	60	80
Lower member:		
"Hardpan" and gravel.	6	86
Gravel.	14	100
"Hardpan".	2	102
Gravel, loose, water-bearing	4	106
Clay.	1	107
"Hardpan".	1	108
Gravel, unsorted, coarse, water-bearing	2	110
Clay.	--	--

Casing, 6-inch, set to 107 feet.

25/5-34G1. Bud Stringfellow. About 1.5 miles east of Midlakes. Altitude about 280 feet. Drilled by Clyde Dorsten, 1951.

Vashon drift:		
Recessional outwash:		
Topsoil.	10	10
Clay, blue.	28	38
Sand and gravel, water-bearing. . . .	8	46

Casing, 6-inch, set to 46 feet; perforated from 24 to 26 feet.

25/5-34G2. Bud Stringfellow. About 1.5 miles east of Midlakes. Altitude about 280 feet. Drilled by Clyde Dorsten, 1951.

Vashon drift:		
Topsoil.	10	10
Recessional outwash:		
Clay, blue	30	40
Sand and gravel, water-bearing	20	60
Orting gravel:		
Kitsap clay member:		
Clay, blue.	3	63

Casing, 6-inch, set to 60 feet; perforated from 40 to 60 feet.

Table 3.--Materials penetrated by representative wells.--Con.

25/5-34P1. L. Jackson. About 1.5 miles east of Wilburton. Altitude about 290 feet. Dug by Elmer Miller, 1947.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Till:		
Topsoil	6	6
"Hardpan"	24	30
Puyallup sand:		
Sand	20	50

Casing, 36-inch concrete tile, set to 50 feet.

25/5-34Q1. E. D. Orians. About 2.5 miles east of Bellevue. Altitude about 290 feet. Drilled by J. C. Maxwell, 1952.

Vashon drift:		
Recessional outwash:		
Clay, sandy	31	31
Gravel, dirty	?	?
Sand and gravel, clean	?	38

Casing, 6-inch, set to 38 feet.

25/5-35A2. Al Marilley. About 2.75 miles east of Midlakes. Altitude about 430 feet. Drilled by H. O. Meyer, 1949.

Dug, no record	147	147
Puyallup sand:		
Clay	25	172
Sand, fine, water-bearing	13	185
Sand, blue, fine, with pebbles, water-bearing	20	205
Sand, brown, coarse, and gravel	4	209

Casing, 6-inch, set to 209 feet.

25/5-35A3. R. Rasmussen. About 2.75 miles east of Midlakes. Altitude about 435 feet. Drilled by E. F. Axelson.

Vashon drift:		
Till:		
Soil	5	5
"Hardpan"	65	70
Puyallup sand:		
Gravel and sand, with clay	85	155
Gravel and sand, water-bearing	15	170
Sand, water-bearing	13	183

Casing, 8-inch.

Table 3.--Materials penetrated by representative wells.--Con.

25/6-7H1. John Landwater. About 2 miles east of Redmond. Altitude about 100 feet. Drilled by H. O. Meyer, 1948.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Recessional outwash:		
Gravel.	35	35
Admiralty drift:		
Clay, sand, and gravel.	15	50
Clay and sand, intercalated	170	220
Sand and gravel.	10	230
Clay.	30	260
Clay and gravel, intercalated . . .	27	287

Casing, 6-inch, set to 281 feet; screen, No. 14 slot, 6-inch set from 281 to 287 feet.

25/6-8Q1. M. O. Kallin. About 2.75 miles east of Redmond. Altitude about 345 feet. Dug by Elmer Miller.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Recessional outwash:		
Sand, dry, powdery.	11	11
Till:		
"Hardpan".	40	51
Orting gravel:		
Gravel, cemented with clay, dirty .	15	66
Sand, red, medium.	4	70
Gravel, cemented with clay, dirty .	2	72
Sand, red, medium.	4	76
Gravel, cemented with clay, dirty .	32	108
Admiralty drift:		
Sand, brown, medium, compact . . .	22	130

Casing, 48-inch, concrete, set to 130 feet.

25/6-9G1. J. F. Blashet. About 3½ miles east of Redmond. Altitude about 475 feet. Drilled by W. J. Bryant.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Topsoil.	2	2
"Hardpan" and clay	246	248
Orting gravel:		
Gravel and sand.	12	260

Casing, 6-inch, set to 260 feet; perforated from 250 to 260 feet.

Table 3.--Materials penetrated by representative wells.--Con.

25/6-16L1. M. V. Carlson. About 4 miles east of Redmond on road to Fall City. Altitude about 115 feet. Dug by owner.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Recessional outwash:		
Sand, hard	12	12
Gravel, medium, and sand, coarse	4	16

Casing, 40-inch, set to 16 feet.

25/6-16Q1. Carl Larson. About 4.5 miles east of Redmond on road to Fall City. Altitude about 140 feet. Dug by Elmer Miller.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Recessional outwash:		
Gravel	20	20
Clay, blue	10	30
Advance outwash:		
Gravel and sand, cemented	25	55

Casing, 36-inch, set to 55 feet.

25/6-20E2. W. L. Grange. About 3.5 Miles southeast of Redmond on road to Issaquah. Altitude about 50 feet. Drilled by E. F. Axelson, 1950.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Till:		
Clay, brown	30	30
"Hardpan"	5	35
Admiralty drift:		
Clay, blue, and "rocks"	68	103
Sand and gravel	2	105
Sand, fine	3	108

Casing, 6-inch, set to 102 feet; screen, 6-inch, set from 102 to 108 feet.

25/6-22C1. R. H. Lawson. About 5 miles east of Redmond on road to Fall City. Altitude about 130 feet. Drilled by N.C. Jannsen.

Materials	Thickness (feet)	Depth (feet)
Dug	37	37
Orting gravel:		
Lower member:		
Gravel, cemented	31	68
Admiralty drift:		
Clay	6	74
"Rocks"	2	76
Gravel, coarse, and sand	4	80
Clay and sand	38	118
Sand and gravel	11	129
Gravel and "rocks"	11	140
Gravel	5	145

Casing, 10-inch.

Table 3.--Materials penetrated by representative wells.--Con.

25/6-30B1. R. Strout. About 3 miles south of Redmond on west side of Sammamish Lake. Altitude about 150 feet. Drilled by H. O. Meyer, 1948

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Till:		
Topsoil	7	7
"Hardpan", tight	38	45
Gravel and "rocks"	7	52
Orting gravel:		
Kitsap clay member:		
"Hardpan" and clay	8	60
Clay and sand	12	72
Sand and clay, water-bearing	8	80
Lower member:		
Sand and gravel, cemented with clay	4	84
Sand and gravel, cemented	4	88

Casing, 6-inch, set to 88 feet.

25/6-30C1. H. G. Wheeler. About 3 miles south of Redmond on west side of Sammamish Lake. Altitude about 170 feet. Drilled by H. O. Meyer, 1950.

No record	80	80
Orting gravel:		
Kitsap clay member:		
Clay and sand	35	115
Gravel, wood, stumps and dirt, water-bearing	2	117
Lower member:		
Gravel, cemented with silt, water-bearing	33	150
"Hardpan"	20	170

Casing, 6-inch, set to 150 feet.

25/6-32R2. Harry Paul. About 6 miles southeast of Redmond. Altitude about 340 feet. Drilled by H. O. Meyer, 1951.

Dug well	30	30
Vashon drift:		
Till:		
"Hardpan"	36	66
Puyallup sand:		
Sand and clay	4	70
Sand and gravel, water-bearing	25	95
Orting gravel:		
"Hardpan"	8	103
Gravel and sand	85	188

Casing, 6-inch, set to 188 feet.

Table 3.--Materials penetrated by representative wells.--Con.

25/6-33J1. Pine Lake Water Co. About 1 mile north of Pine Lake. Altitude about 430 feet. Drilled by J. J. Bell, 1944.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Till and advance outwash:		
"Hardpan".	65	65
"Semi-hardpan", brown, "rocks", boulders	150	215
Orting gravel:		
Lower member:		
Gravel, brown, cemented, water-bearing	3	218
"Semi-hardpan", brown.	54	272
Gravel, brown, cemented, water-bearing	8	280
Sand and "hardpan".	35	315

Casing, 6-inch, set to 292 feet; perforated from 215 to 218 feet, and from 272 to 280 feet.

25/7-6R1. Carnation Farm. Altitude about 63 feet. Drilled by A. A. Durand.

Recent alluvium:		
Topsoil and gravel, fine.	5	5
Pleistocene deposits undifferentiated:		
Clay, gray, and gravel.	28	33
Clay, gray, sand and gravel.	52	85
Sand.	20	105
Clay, blue, gumbo	50	155
Clay, blue, gumbo and sand	40	195
Clay, gray, heaving.	45	240
Clay, gray, and sand, heaving. . . .	5	245
Sand, hardpacked.	6	251
Clay, sandy.	34	285
Clay, sticky.	33	318
Clay, sandy	82	400
Sand, fine, gray, heaving.	85	485
Clay, gray, sticky.	65	550
Clay, gray, sandy.	20	570
Sand, fine to coarse, clay, shells, water-bearing.	10	580
Clay, sand, gravel, and cobbles, water-bearing.	10	590
Gravel, medium to coarse, and sand . .	32	622
Sand compacted.	8	630

Casing, 16-inch, set to 29 feet; 12-inch, set to 351 feet; 10-inch set from 537 to 561 feet; 8-inch, set from 532 to 630 feet; perforated from 595 to 618 feet.

Table 3.--Materials penetrated by representative wells.--Con.

25/7-18D1. J. W. Guthrie. About 2.5 miles northwest of Carnation. Altitude about 250 feet. Drilled by H.O. Meyer, 1952.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Advance outwash:		
Gravel	24	24
Sand, water-bearing	71	95
Sand and gravel, water-bearing	6	101

Casing, 6-inch, set to 101 feet.

25/7-20N1. E. Harper. About 2 miles southwest of Carnation. Altitude about 450 feet. Dug by E. Harper, 1951.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Till:		
"Hardpan"	24	24
Sand, clay, and gravel	16	40
Advance outwash:		
Gravel, coarse	5	45

Casing, 48-inch, set to 45 feet.

26/4-1E1. Henry LaFond. About 1 mile northwest of Kenmore. Altitude about 100 feet. Drilled by H. O. Meyer, 1949.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Till:		
Gravel and "hardpan"	16	16
"Hardpan"	8	24
Orting gravel:		
Kitsap clay member:		
Clay, blue	89	113
Lower member:		
Gravel and sand	6	119

Casing, 6-inch, set to 119 feet.

26/4-2E2. George Senty. About 1.5 miles northwest of Kenmore. Altitude about 250 feet. Drilled by E. F. Axelson.

Materials	Thickness (feet)	Depth (feet)
Orting gravel:		
Kitsap clay member:		
Topsoil	18	18
Clay, blue	212	230
Lower member:		
Gravel	2	232

Casing, 6-inch, set to 225 feet.

Table 3.--Materials penetrated by representative wells.--Con.

26/4-12J1. E. M. Jones. About 1 mile west of Bothel. Altitude about 20 feet. Drilled by H. O. Meyer, 1949.

Materials	Thickness (feet)	Depth (feet)
Recent alluvium:		
Peat	12	12
Vashon drift:		
Till:		
Sand and "hardpan"	18	30
Advance outwash:		
Sand, coarse	5	35
Sand, coarse, and gravel	5	40

Casing, 6-inch, set to 40 feet.

26/4-12M1. R. A. Pierce. Near Kenmore. Altitude about 25 feet.

Recent alluvium:		
Peat	4	4
Gravel	4	8
Sand and gravel	4	12

Casing, 96-inch.

26/4-13G1. R. M. Metheny. About 1.5 miles southeast of Kenmore. Altitude about 430 feet. Dug by J. Cain.

Vashon drift:		
Till:		
Topsoil	2	2
"Hardpan"	18	20
Puyallup sand:		
Sand	42	62

Casing, 30-inch, concrete tile set to 62 feet.

26/4-24C1. A. J. Menard. About 2 miles south of Kenmore. Altitude about 450 feet. Drilled by E. F. Axelson.

No record	60	60
Puyallup sand:		
Sand	30	90
Clay, blue	1	91

Casing, 6-inch, set to 90 feet.

Table 3.--Materials penetrated by representative wells.--Con.

26/4-24G1. H. Lister. About 2 miles southeast of Kenmore. Altitude about 440 feet.

Material	Thickness (feet)	Depth (feet)
Vashon drift:		
Till:		
Topsoil	2	2
"Hardpan"	62	64
Advance outwash:		
Gravel and sand	6	70

Casing, 36-inch, plaster to 55 feet, 30-inch, concrete tile, set from 55 to 70 feet.

26/4-24H1. W. Beckman. About 2 miles southeast of Kenmore. Altitude about 400 feet. Drilled by W. Peterson, 1924.

Material	Thickness (feet)	Depth (feet)
Vashon drift:		
Till:		
Topsoil	3	3
"Hardpan"	13	16
Puyallup sand:		
Sand	56	72
"Hardpan" and gravel	46	118

Casing, 5-inch, set to 118 feet.

26/4-25H1. E. R. Bertram. About 1 mile west of Juanita. Altitude about 400 feet. Dug by F. Young.

Material	Thickness (feet)	Depth (feet)
Vashon drift:		
Till:		
Topsoil	2	2
"Hardpan"	35	37
Advance outwash:		
Gravel and sand	3	40

Casing, 40-inch, set to 40 feet.

26/4-36C1. Water District No. 41. Champagne Point. Altitude about 65 feet. Drilled by J. J. Bell.

Material	Thickness (feet)	Depth (feet)
Admiralty drift:		
Topsoil	1	1
Clay, yellow	4	5
Clay, blue	7	12
Clay, sandy	6	18
Clay, blue	12	30
Clay, sandy, laminated	20	50
Sand, blue, water-bearing	23	73

Casing, 6-inch, set to 68 feet; screen, set from 68 to 73 feet.

Table 3.--Materials penetrated by representative wells.--Con.

26/5-1L1. E. H. Jones. About 0.5 mile northeast of Leota Lake. Altitude about 375 feet. Drilled by E. F. Axelson.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Till:		
Topsoil	5	5
"Hardpan"	25	30
Advance outwash:		
Gravel and sand	52	82

Casing, 6-inch, set to 82 feet.

26/5-5E1. Bothell Water District, Well No. 4. Altitude about 245 feet. Drilled by J. J. Bell, 1941.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Till:		
Topsoil	1.5	1.5
"Hardpan"	28.5	30
Sand and gravel, water-bearing	5	35
"Hardpan"	25	60
Orting gravel:		
Kitsap clay member:		
Clay, blue, hard	83	143
Sand, blue, hard, and clay	17	160
Sand, hard	22	182
Lower member:		
Gravel, cemented, water-bearing	7	189
Sand and gravel, loose	11	200
Gravel, hard	3	203
Sand and gravel, loose	17	220
Admiralty drift:		
Clay, blue, sticky	4	224

Casing, 8-inch, set to 224 feet; perforated from 198 to 217 feet.

26/5-5E2. Bothell Water District, Well No. 5. Altitude about 245 feet. Drilled by J. J. Bell, 1946

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Till:		
Topsoil	2	2
"Hardpan"	33	35
Sand, gray, silty, fine, water-bearing	23	58
Orting gravel:		
Kitsap clay member:		
Clay, blue	90	148
Sand, blue, hard, and gravel	42	190
Lower member:		
Gravel, cemented	11	201
Sand and gravel, loose	18	219
Gravel, cemented, water-bearing	8	227
Admiralty drift:		
Clay, blue	3	230

Casing, 8-inch, set to 227 feet; perforated from 211 to 226 feet.

Table 3.--Materials penetrated by representative wells.--Con.

26/5-5K1. Herseth. About 0.75 mile northeast of Bothell.
Altitude about 180 feet. Drilled by Kjorsvik and Anderson, 1951.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Till:		
Topsoil	2	2
"Hardpan"	94	96
Advance outwash:		
Sand and gravel	8	104
Orting gravel:		
Kitsap clay member:		
Clay, blue	23	127

Casing, 6-inch, set to 100 feet.

26/5-6B1. C. L. Johnson. About 1 mile north of Bothell.
Altitude about 150 feet. Drilled by Kjorsvik and Anderson, 1949

Orting gravel:		
Kitsap clay member:		
Clay, blue	98	98
Sand	2	100

Casing, 6-inch, set to 100 feet.

26/5-6P1. V. L. Barnes. About 0.75 mile northwest of Bothell.
Altitude about 210 feet. Drilled by E. F. Axelson.

Vashon drift:		
Till:		
"Hardpan", blue	57	57
Advance outwash:		
Gravel, coarse	--	--

Casing, 6-inch, set to 57 feet.

26/5-7F1. D. J. Dempsey. About 0.5 mile southwest of Bothell.
Altitude about 175 feet. Drilled by Kjorsvik and Anderson.

Vashon drift:		
Till:		
"Hardpan"	6	61
Advance outwash:		
Sand and gravel	4	65

Casing, 6-inch, set to 65 feet.

Table 3.--Materials penetrated by representative wells.--Con.

26/5-7G1. Bothell Water District. Altitude about 140 feet. Drilled by J. J. Bell.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Recessional outwash:		
Sand and gravel, loose	18	18
Till:		
"Hardpan", brown	6	24
"Hardpan", gray	44	68
Orting gravel:		
Lower member:		
Gravel, gray, cemented, dry	11	79
Gravel, water-bearing	1	80
Sand, silty, and "rocks"	15	95
Clay, blue	10	105
Gravel and sand, hard	2	107
Admiralty drift:		
Clay, blue, "rocks" and sand	76	183
Gravel, cemented, water-bearing	34	217
Clay, blue	140	357
"Shale", blue, hard	44	401
Sand, gravel and wood, dry	4	405
"Shale", blue	33	438
Till:		
Sand, clay, rocks, hard	24	462
Clay, blue	3	465

Destroyed.

26/5-7J2. M. E. Haller. About 0.5 mile southwest of Bothell. Altitude about 50 feet. Drilled by Kjorsvik and Anderson, 1947.

Orting gravel:		
Kitsap clay member:		
Clay, blue	84	84
Sand, fine	--	--

Casing, 6-inch, set to 84 feet.

26/5-8E2. Bothell Water District. Bothell. Altitude about 35 feet. Drilled by J. J. Bell.

Admiralty drift:		
Topsoil	1	1
Clay, yellow	11	12
Clay, blue	17	29
Gravel	1	40
Clay-shale, blue, hard	65	105
Sand, hard, and silt, fine	12	117
"Shale"	18	135
Sand, fine, water-bearing	1	136
"Sandstone", hard	24	160

Test hole.

Table 3.--Materials penetrated by representative wells.--Con.

26/5-8E3. Bothell Water District. Bothell, on south side of Sammamish River. Altitude about 50 feet. Drilled by J. J. Bell, 1937.

Materials	Thickness (feet)	Depth (feet)
Admiralty drift:		
Topsoil	1	1
Clay, brown	13	14
Clay, blue, silty	33	47
"Rocks", and sand, clean	3	50
Sand and gravel	3	53
Clay, blue	3	56

Casing, 8-inch, set to 56 feet; perforated from 48 to 54 feet.

26/5-9F1. North Creek Oil and Gas Co. Woodinville. Altitude about 25 feet. Drilled by C. E. Miller, 1935.

Pleistocene and Tertiary deposits, undifferentiated:		
Sand and logs	100	100
"Hardpan" and gravel, tight	332	432
Sand and gravel, gas, water-bearing	218	650
Clay and shale, dry	500	1150
Sand, intercalated with a hard compact lime	58	1208

Casing, 12-inch set to 100 feet; 10-inch, set to 332 feet; 8-inch, set to 218 feet; 6-inch, set to 440 feet; 5-inch, set to 58 feet.

26/5-9L1. Floyd Grater. Woodinville. Altitude about 100 feet. Dug by owner.

Vashon drift:		
Till:		
Soil	1	1
"Hardpan"	2	3
Clay, blue	10	13
Sand	2	15
"Hardpan"	--	--

Casing, 30-inch, set to 13 feet.

26/5-9N1. Roy Downs. About 0.5 mile south of Woodinville. Altitude about 200 feet.

Vashon drift:		
Till:		
"Hardpan"	21	21
Sand	5	26

Casing, 30-inch, set to 20 feet.

Table 3.--Materials penetrated by representative wells.--Con.

26/5-9R1. Buster Brown. About 0.5 mile south of Woodinville. Altitude about 100 feet. Drilled by N. C. Jannsen, 1931.

Materials	Thickness (feet)	Depth (feet)
Old well.	30	30
Orting gravel:		
Lower member:		
Gravel, cemented, and "boulders", small	21	51
Sand and gravel.	7	58
Sand, gravel and "rocks", small. .	4	62
Sand and gravel.	21	83
Admiralty drift:		
Clay.	11	94
Clay, blue.	6	100
Sand, fine, and clay, sandy . . .	8	108
Sand.	24	132
Clay, sticky.	153	285
Clay and "shale".	2	287
Sand, "shale" and gravel	15	302
Gravel, sand, cemented, and "rock".	6	308
Sand and gravel, cemented.	12	320
Clay, blue.	5	325
Sand.	7	332

Casing, 6-inch, set to 330 feet.

26/5-11K2. W. E. Napper. About 1.75 miles east of Woodinville. Altitude about 540 feet. Drilled by Kjorsvik & Anderson.

Vashon drift: Dug to 310 feet		
Till:		
"Hardpan.	150	150
Puyallup sand:		
Sand.	160	310
Drilled to 327 feet.		
Gravel.	7	317
Swamp deposit	10	327

Casing, none in dug hole to 150 feet; 6-inch, set from 0 to 317 feet.

26/5-11Q1. L. M. Rowan. About 2 miles east of Woodinville. Altitude about 440 feet. Dug by A. C. Early, 1949.

Vashon drift:		
Advance outwash:		
Sand.	20	20
Sand and gravel	160	180

Casing, 30-inch, set to 180 feet.

Table 3.--Materials penetrated by representative wells.--Con.

26/5-13M1. Gus B. Peterson. About 2 miles southeast of Woodinville. Altitude about 530 feet. Drilled by Kjorsvik & Anderson, 1951.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Till:		
Topsoil	3	3
"Hardpan"	90	93
Sand, fine, water-bearing	25	118
Clay, blue	?	?
"Hardpan"	?	250
Sand, fine, water-bearing	24	274

Casing, 4-inch, set to 270 feet; screen, 4-inch, set from 268 to 274 feet.

26/5-13N1. Frank Beaty. About 2 miles southeast of Woodinville. Altitude about 450 feet. Drilled by C. E. Miller, 1940.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Till:		
Topsoil	3	3
"Hardpan"	82	85
Advance outwash:		
Sand, loose, dry	15	100
Sand, and gravel, cemented	99	199
Puyallup sand:		
Sand, water-bearing	16.5	215.5

Casing, 8-inch, set to 85 feet; 6-inch, set from 85 to 211 feet; Screen, set from 211 to 215 feet.

26/5-14A1. A. and M. Rundquist. About 2 miles east of Woodinville. Altitude about 550 feet. Drilled by H. O. Meyer, 1951.

Materials	Thickness (feet)	Depth (feet)
No record	170	170
Vashon drift:		
Advance outwash:		
Gravel, dry, clean	15	185
"Boulders", quartz	1	186
Gravel	4	190
"Hardpan"	2	192
Gravel and sand	4	196
"Hardpan"	0.5	196.5
Gravel and sand, dry	23.5	220
Clay and "hardpan"	2	222
Gravel, dry	2	224
"Hardpan", and gravel	10	234
Sand, fine	10	244
"Hardpan"	2	246
Gravel and sand	3	249
Clay, sand, and gravel	3	252

(continued next page)

Table 3.--Materials penetrated by representative wells.--Con.

26/5-14A1.--Continued

Materials	Thickness (feet)	Depth (feet)
Gravel and sand, coarse, water-bearing.	6	258
Gravel, coarse, sand and silt.	6	264
"Hardpan", sand and gravel . .	4	268
Gravel, dry.	2	270
"Hardpan", sand and gravel . .	4	274
Gravel and sand, loose	4	278
"Hardpan".	1	279
Puyallup sand:		
Sand, fine to coarse.	24	303
Silt.	6	309

Casing, 6-inch, set to 165 feet; 5-inch, set to 297 feet; screen, No. 14 slot, set from 297 to 303 feet.

26/5-15R1. R. B. Fosburgh. About 1.5 miles south of Woodinville. Altitude about 60 feet. Drilled by Kjorsvik & Anderson.

Vashon drift:		
Recessional outwash:		
Topsoil.	3	3
Sand and gravel, coarse. . . .	62	65

Casing, 6-inch, set to 65 feet.

26/5-16K1. C. J. Grossman. About 1 mile south of Woodinville. Altitude about 290 feet. Dug C. J. Grossman.

Vashon drift:		
Till:		
Topsoil.	4	4
"Hardpan".	47	51
Puyallup sand:		
Sand, water-bearing.	3	54

Casing, 72-inch, set to 6 feet.

26/5-17D1. E. Horn. About 1 mile south of Bothell. Altitude about 455 feet. Drilled by J. J. Bell, 1946.

No record.	82	82
Orting gravel:		
Kitsap clay member:		
Clay, blue.	125	207
Sand, fine, silty, water-bearing	63	270
Sand.	10	280
Clay, blue.	30	310

Casing, 8-inch, set to 270 feet; screen, No. 10 slot, set from 270 to 280 feet.

Table 3.--Materials penetrated by representative wells.--Con.

26/5-18A2. D. A. Maydole. About 1 mile south of Bothell. Altitude about 50 feet. Drilled by H. O. Meyer, 1951.

Materials	Thickness (feet)	Depth (feet)
Admiralty drift:		
Clay, blue	92	92
Sand, coarse	9	101

Casing, 6-inch, set to 101 feet.

26/5-18E1. J. Milkay. About 1.5 miles south of Bothell. Altitude about 400 feet. Drilled by H. O. Meyer, 1951.

Materials	Thickness (feet)	Depth (feet)
Puyallup sand:		
Topsoil	3	3
Clay, sandy	39	42
Sand, water-bearing	5	47
Sand, silty	20	67
Clay	38	105

Casing, 6-inch, set to 62 feet; screen, No. 10 slot, set from 62 to 67 feet.

26/5-19A1. G. C. Lanphere. About 2 miles south of Bothell. Altitude about 230 feet. Drilled by W. B. Gemmil.

Materials	Thickness (feet)	Depth (feet)
Puyallup sand:		
Sand	146	146
"Quicksand"	30	176

Casing, 6-inch, set to 146 feet.

26/5-19L2. William Tormanen. About 1 mile northwest of Juanita. Altitude about 425 feet. Drilled by H. O. Meyer, 1951.

Materials	Thickness (feet)	Depth (feet)
Dug	60	60
Vashon drift:		
Till:		
"Hardpan"	34	94
Gravel	2	96
"Hardpan" and clay, blue	44	140
Advance outwash:		
Sand and gravel, with a few layers of "hardpan"	170	310
Sand, water-bearing	40	350
Admiralty drift:		
Clay	20	370
Clay, silty, water-bearing	24	294

Casing, 6-inch.

Table 3.--Materials penetrated by representative wells.--Con.

26/5-20J1. Francis Faulkner. About 1 mile northeast of Juanita. Altitude about 275 feet. Drilled by D. K. Schilling.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Till:		
Topsoil	4	4
"Hardpan"	4	8
Advance outwash:		
Sand and gravel	60	68

Casing, 5-inch, set to 68 feet.

26/5-20L2. G. G. Gaidos. About 1.5 miles north of Juanita. Altitude about 175 feet. Drilled by H. O. Meyer, 1949.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Advance outwash:		
Sand, brown	20	20
Sand, gray	9	29
Gravel, dry	3	32
Orting gravel:		
Kitsap clay member:		
Sand and clay, brown	23	55
Clay	3	58
Clay and sand, water-bearing	4	62
Lower member:		
Gravel, coarse, water-bearing	2	64
Gravel and sand, intercalated, water-bearing	10	74
Sand, coarse	1	75

Casing, 6-inch, set to 75 feet.

26/5-20M2. Dave Steiner. About 1 mile north of Juanita. Altitude about 140 feet. Drilled by H. O. Meyer, 1949.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Till:		
Topsoil	2	2
"Hardpan" and gravel	8	10
Advance outwash:		
Sand and gravel, fine	25	35
Sand and clay	10	45
Sand and gravel, water-bearing	25	70
Clay, blue	11	81
Sand, fine, water-bearing	3	84
Sand and gravel, fine, water-bearing	7	91

Casing, 4-inch, set to 85 feet; screen, No. 14 slot, set from 85 to 91 feet.

Table 3.--Materials penetrated by representative wells.--Con.

26/5-20N2. G. C. Hamilton. About 1 mile north of Juanita.
Altitude about 145 feet. Drilled by N. C. Jannsen, 1934.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Advance outwash:		
Sand and gravel, water-bearing	62	62
Sand	19	81
Clay	5	86

Casing, 6-inch, set to 86 feet; perforated from 73 to 79 Feet.

26/5-20N3. George Robbins. About 1 mile north of Juanita.
Altitude about 100 feet. Drilled by Pratt(?).

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Advance outwash:		
Sand	10	10
Admiralty drift:		
Clay	62.5	72.5
Gravel, cemented	0.5	73
Sand, gray	--	--

Casing, 3-inch, set to 73 feet.

26/5-20P1. E. A. Sharp. About 0.75 mile northeast of Juanita.
Altitude about 130 feet. Dug by owner.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Recessional outwash:		
Sand	12	12
Till:		
"Hardpan"	4	16
Advance outwash:		
Sand	17	33

Casing, 36-inch.

26/5-21K1. A. L. Dunn. About 2 miles south of Woodinville.
Altitude about 291 feet. Dug.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Till:		
Topsoil	4	4
"Hardpan"	20	24
Advance outwash:		
Clay, blue, and sand	30	54
Gravel	11	65

Casing, 36-inch, concrete tile, set to 65 feet.

Table 3.--Materials penetrated by representative wells.--Con.

26/5-21Q1. Peter Turtianen. About 2.25 miles south of Woodinville. Altitude about 310 feet. Dug by owner.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Till:		
"Hardpan".	30	30
Advance outwash:		
Sand.	60	90
Gravel.	10	100

Casing, 48-inch, set to 80 feet.

26/5-22A1. George Nelson. About 2 miles southwest of Woodinville. Altitude about 50 feet. Drilled by N. C. Jannsen, 1931.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Recessional outwash:		
Sand, and gravel, and "rocks". . . .	3	3
Sand and gravel.	33	36
Sand.	9	45
Advance outwash:		
Clay, sandy.	10	55
Clay, blue.	100	155
Sand and gravel.	2	157
Sand, coarse, and gravel	3	160
Sand and gravel.	20	180
Gravel and sand.	5	185
Gravel.	2	187
Gravel, coarse.	3	190

Casing, 6-inch, set to 160 feet.

26/5-22N1. G. M. Danenbauer. About 2.25 miles south of Woodinville. Altitude about 340 feet. Dug by Thorpe.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Till:		
"Hardpan", sand and gravel.	130	130
Advance outwash:		
Sand, water-bearing.	18	148

Casing, 48-inch, set to 148 feet.

Table 3.--Materials penetrated by representative wells.--Con.

26/5-23A1. H. M. Thomas. About 3 miles southeast of Woodinville. Altitude about 400 feet. Drilled by Kjorsvik and Anderson, 1944.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Till:		
"Hardpan".	50	50
Puyallup sand:		
Sand, water-bearing.	170	220
Orting gravel		
Kitsap clay member:		
Clay.	3	223
Sand, dry	100	323

Casing, 6-inch, set to 220 feet (Owner's memory log)

26/5-23P2. K. Abe. About 3 miles north of Redmond. Altitude about 75 feet. Drilled by E. F. Axelson.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Till:		
"Hardpan".	75	75
Advance outwash:		
Sand.	7	82

Casing, 6-inch, set to 82 feet.

26/5-25M1. Fred Miller. About 2.25 miles north of Redmond. Altitude about 275 feet. Drilled by Wilson, 1939.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Till:		
"Hardpan".	6	6
Puyallup sand:		
Sand, water-bearing.	90	96
Gravel, water-bearing. . . .	16	112

Casing, 6-inch, set to 100 feet.

26/5-25P1. A. Peterson. About 2.25 miles north of Remond. Altitude about 300 feet. Dug by T. Newbom, 1950.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Till:		
"Hardpan".	68	68
Advance outwash:		
Sand.	7	75

Casing, 36-inch, plastered to 70 feet.

Table 3.—Materials penetrated by representative wells.--Con.

26/5-26H2. A. H. Kemp. About 2.5 miles north of Redmond. Altitude about 100 feet. Drilled by H. O. Meyer, 1952.

Materials	Thickness (feet)	Depth (feet)
Admiralty drift:		
Clay.	150	150
Silt, coarse.	10	160
Clay.	20	180
Clay and silt	45	225

Casing, 6-inch.

26/5-27L1. B. Rusch. About 3 miles northwest of Redmond. Altitude about 90 feet. Dug by owner.

Orting gravel:		
Kitsap clay member:		
Clay,brown.	11	11
Clay, blue.	5.5	16.5
Sand, water-bearing	.5	17

Casing, 36-inch, set to 16 feet.

26/5-28D1. C. Arnold. About 1 mile east of Juanita. Altitude about 175 feet. Drilled by H. O. Meyer.

Vashon drift:		
Till:		
"Hardpan" and gravel.	40	40
Advance outwash:		
Gravel and sand.	11	51
Gravel, coarse.	3	54

Casing, 6-inch.

26/5-28J2. J. J. Yeyna. About 3 miles east of Juanita. Altitude about 200 feet.

Vashon drift:		
Recessional outwash:		
Sand and gravel.	17	17
Till:		
"Hardpan".	2	19
Advance outwash:		
Sand and gravel.	12.5	31.5
Sand, water-bearing.	2.5	34

Casing, 36-inch.

Table 3.--Materials penetrated by representative wells.--Con.

26/5-28M1. L. Eastham. About 1.5 miles east of Juanita. Altitude about 150 feet. Drilled by H. O. Meyer.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Till:		
Topsoil	6	6
"Hardpan"	30	36
Orting gravel:		
Kitsap clay member:		
Clay, sandy, water-bearing	4	40
Clay	88	128
Gravel and sand, water-bearing	2	130
Clay	18	148
Gravel, water-bearing	2	150
"Hardpan"	4	154
Clay	4	158
Sand and gravel, water-bearing	4	162
Clay	--	--

Casing, 6-inch, set to 158 feet.

26/5-28M2. Al Johns. About 1.5 miles east of Juanita. Altitude about 190 feet. Drilled by H. O. Meyer.

Vashon drift:		
Recessional outwash:		
Sand	7	7
Till:		
"Hardpan"	38	45
Advance outwash:		
Gravel, coarse, water-bearing	5	50
Orting gravel:		
Kitsap clay member:		
Clay	50	100
Silt and sand, water-bearing	10	110
Sand, coarse, water-bearing	10	120

Casing, 6-inch, set to 120 feet.

26/5-28P1. E. Cronhagen. About 1.25 miles east of Juanita. Altitude about 165 feet. Dug by owner.

Vashon drift:		
Till:		
"Hardpan"	10	10
Clay	2	12
Advance outwash:		
Sand, water-bearing	3	15

Casing, 36-inch, set to 14 feet.

Table 3.--Materials penetrated by representative wells.--Con.

26/5-29E1. W. E. Ferguson. About 0.5 mile northeast of Juanita. Altitude about 100 feet. Drilled by H. O. Meyer, 1947.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Till:		
Topsoil	8	8
Sand and clay	9	17
"Hardpan"	11	28
"Boulders" and gravel	3	31
Sand and gravel	7	38
"Hardpan", gray	10	48
Advance outwash:		
Gravel, water-bearing	2	50
Clay	4	54
Sand and clay	6	60
Orting gravel:		
Kitsap clay member:		
Clay and peat	6	66
Sand, water-bearing	4	70
Clay	1	71
Lower member:		
Sand, coarse, water-bearing	4	75

Casing, 6-inch, set to 70 feet; screen, No. 14 slot, set from 70 to 75 feet.

26/5-29L1. B. B. Reynolds. About 0.5 mile east of Juanita. Altitude about 160 feet. Dug by owner.

Vashon drift:		
Till:		
Topsoil	4	4
"Hardpan"	9	13
Sand	3	16

Casing, 30-inch, set to 16 feet.

26/5-29L2. Mc Lean. About 0.5 mile northeast of Juanita. Altitude about 225 feet. Drilled by H. O. Meyer.

Vashon drift:		
Till:		
Topsoil	6	6
"Hardpan"	6	12
Advance outwash:		
Sand and gravel	14	26
Orting gravel:		
Kitsap clay member:		
Sand and clay	40	66
Sand and gravel	4	70

(continued next page)

Table 3.--Materials penetrated by representative wells.--Con.

26/5-29L2.--Continued.

Materials	Thickness (feet)	Depth (feet)
Clay and sand, gray.	10	80
Sand.	5	85
Sand, brown, water-bearing . .	5	90
Sand, gray, and clay, water-bearing	5	95
Clay and sand, compact	37	132
Clay and sand, water-bearing .	2	134
Lower member:		
Gravel, coarse, water-bearing.	5	139

Casing, 6-inch, set to 139 feet.

26/5-29P2. R. M. Baughman. About 0.5 mile east of Juanita. Altitude about 250 feet. Drilled by H. O. Meyer.

Vashon drift:		
Till:		
"Hardpan" and clay.	60	60
Advance outwash:		
Sand, red, water-bearing.	38	98
Orting gravel:		
Kitsap clay member:		
Clay.	26	124
Sand.	1	125
Clay.	3	128
Sand and gravel, water-bearing. .	1	129
Clay.	11	140
Sand and gravel, water-bearing. .	5	145
Clay.	30	175

Casing, 6-inch, set to 110 feet. Gravel fill to bottom.

26/5-29Q1. E. H. Ramin. Altitude about 245 feet. Dug by Newton Veeder.

Vashon drift:		
Till:		
Topsoil.	1.5	1.5
"Hardpan".	3	4.5
Clay, sandy.	48.5	53

Casing, 24-inch.

Table 3.--Materials penetrated by representative wells.--Con.

26/5-30G1. Town of Juanita, Water District No. 72. Altitude about 120 feet. Drilled by R. J. Strasser, 1948.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Recessional outwash:		
Topsoil	8	8
Gravel, loose	12	20
Orting gravel		
Lower member:		
"Sandstone", yellow	11	31
"Boulders"	4	35
"Conglomerate", brown, and gravel, scattered	43	78
Admiralty drift:		
Clay, gray, hard	40	118
Sand, gray, runny	7	125
Clay, brown, hard	16	141
Sand, gray, coarse	9	150
Clay, brown, hard	15	165
Sand, gray, fine, water-bearing	12	177
"Sandstone", gray	29	206
Silt, gray, soft	19	225
Clay, gray, sticky	19	244
Clay, gray	230	474
Gravel, cemented	26	500
Clay, gray, sticky	20	520
Gravel, cemented	15	535
Clay, gray, sticky	12	547

Casing, 18-inch, set to 160 feet; 10-inch, set from 160 to 184 feet; perforated from 164 to 184 feet; gravel pack, 16 yards at perforation.

26/5-30G3. E. J. Bouchard, Juanita. Altitude about 120 feet. Drilled by M. C. Jannsen, 1929.

Vashon drift:		
Recessional outwash:		
Sand	14	14
Sand and gravel	8	22
Admiralty drift:		
Clay, sandy	15	37
Clay	5	42
Sand, water-bearing	4	46

Casing, 6-inch, set to 46 feet.

Table 3.--Materials penetrated by representative wells.--Con.

26/5-30M1. Miller. About 0.75 mile west of Juanita. Altitude about 400 feet. Drilled by D. K. Schilling.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Till:		
"Hardpan".	60	60
Puyallup sand:		
Sand, gravel at 180 feet	120	180
Orting gravel:		
Kitsap clay member:		
Clay, or silt, blue.	170	350
Lower member:		
Sand and gravel, water-bearing	4	354

Casing, 6-inch.

26/5-30N1. D. Reine. About 0.75 mile west of Juanita. Altitude about 375 feet. Dug by owner.

Puyallup sand:		
Sand, with clay lenses.	50	50

Casing, 48-inch, concrete tile, set to 50 feet.

26/5-31K1. Stephen Thein. Rose Point, west of Juanita Golf Course. Altitude about 20 feet. Drilled by H. O. Meyer, 1949.

Vashon drift:		
Recessional outwash:		
Topsoil.	7	7
Sand, water-bearing.	2	9
Gravel and sand.	12	21
Admiralty drift:		
Clay.	2	23
Peat, brown.	10	33
Sand, compact.	--	--

Test hole, destroyed.

26/5-32R1. City of Kirkland, well No. 8. Altitude about 325 feet. Drilled by L. R. Gaudio, 1952.

Puyallup sand:		
Sand, brown, fine to medium.	69	69
Orting gravel:		
Kitsap clay member:		
Clay, blue.	21	90
Sand, fine, gray.	16	106
Clay, blue.	29	135
Clay, sand and gravel, gray.	32	167

(continued next page)

Table 3.--Materials penetrated by representative wells.--Con.

26/5-32R1.--Continued.

Materials	Thickness (feet)	Depth (feet)
Orting gravel:		
Kitsap clay member:		
Clay, blue-gray	12	179
Sand, coarse, gray	5	184
Clay, light brown to green	15	199
Sand, gray	7	206
Clay, gray	13	219
"Hardpan", gray	37	256
Lower member:		
Sand, muddy and gravel, gray	5	261
Gravel, cemented	1	262
Sand and gravel, coarse	3	265
"Hardpan"	1	266
Sand and gravel, coarse	7	273
Sand, fine and gravel, coarse	10	283
"Hardpan"	3	286
Sand and gravel	18	304
Sand, fine and clay, blue	5	309

Casing, 12-inch, set to 263 feet, 7-inch set from 243 to 263 feet. Screen 7-inch No. 50 slot set from 263 to 279 feet. No. 70 slot set from 279 to 289½ feet. No. 50 slot set from 289½ to 299 feet.

26/5-33A1. W. J. Nicholson. About 2 miles east of Juanita. Altitude about 350 feet. Dug by owner.

Vashon drift:		
Till:		
Topsoil	2	2
"Hardpan"	7	9
Puyallup sand:		
Sand, stratified	38	47
Sand, compact, tight	3	50
Gravel, water-bearing	1	51
Sand, stratified	6	57

Casing, 48-inch, concrete, set to 3 feet.

26/5-34E1. O. Staley. About 2 miles east of Juanita. Altitude about 235 feet. Dug by Elmer Miller.

Vashon drift:		
Recessional outwash:		
Sand	6	6
Till:		
"Hardpan"	22	28
Sand, dry	9	37
Sand, water-bearing	2	39
"Hardpan"	--	--

Casing, 36-inch, concrete tile, set to 38 feet.

Table 3.--Materials penetrated by representative wells.--Con.

26/5-36C1. C. B. Streeter. About 2 miles north of Redmond. Altitude about 320 feet. Dug by Early.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Till:		
"Hardpan".	56	56
Puyallup sand:		
Sand.	13	69
Clay.	--	--

Casing, 36-inch.

26/6-8G2. O. E. Kelting. About 1 mile east of Cottage Lake. Altitude about 285 feet. Dug by John Bloom.

Vashon drift:		
Till:		
"Hardpan".	41	41
Advance outwash:		
Gravel.	4	45

Casing, 44-inch, set to 44 feet.

26/6-9A1. W. A. Barnes. About 2.25 miles east of Cottage Lake. Altitude about 435 feet.

Vashon drift:		
Till:		
"Hardpan".	33	33
Advance outwash:		
Sand and gravel.	4	37

Casing, 24-inch, set to 37 feet.

26/6-9G1. G. M. Brown. About 2 miles east of Cottage Lake. Altitude about 400 feet. Dug by owner.

Vashon drift:		
Recessional outwash:		
Sand.	5	5
Till:		
"Hardpan".	14	19
Sand, fine	5	24

Table 3.--Materials penetrated by representative wells.--Con.

26/6-9L1. L. E. Hall. About 1.75 miles east of Cottage Lake. Altitude about 450 feet. Dug by L. E. Hall.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Till:		
Topsoil	4	4
"Hardpan"	21	25
Advance outwash:		
Sand and gravel	6	31

26/6-10M2. A. Engebrigtsen. About 2 miles west of Duvall. Altitude about 520 feet. Dug by Engebrigtsen.

Vashon drift:		
Till:		
"Hardpan"	45	45
Advance outwash:		
Gravel	3	48

26/6-12E1. James Wallace. About 1 mile northwest of Duvall. Altitude about 60 feet. Drilled by C. D. Marks.

Recent alluvium:		
River silt	35	35
Pleistocene deposits undifferentiated:		
Clay, blue	30	65
Sand, water-bearing	2	67
Muck, sandy	45	112
Clay, blue	43	155
Clay, blue, sticky	132	287
Clay, sandy	14	301
Sand, gritty, sharp, water-bearing	4	305

Casing, 6-inch.

26/6-13D1. Town of Duvall. Altitude about 65 feet. Drilled by C. D. Marks, 1940.

Vashon drift:		
Recessional outwash:		
Silt and clay	21	21
Till:		
"Hardpan"	76	97
Pleistocene deposits, undifferentiated:		
Clay, blue, "shot clay"	34	131
Clay, blue	71	202
Sand and gravel	13	215

Casing, 6-inch, set to 215 feet.

Table 3.--Materials penetrated by representative wells.--Con.

26/6-13M1. E. Pazer. About 0.5 mile south of Duvall. Altitude about 107 feet. Drilled by C. D. Marks. 1932.

Materials	Thickness (feet)	Depth (feet)
Admiralty drift:		
Clay, yellow	10	10
Clay and pebbles	2	12
Clay, blue	62	74
Clay, blue, sandy	34	108
Clay, blue, sticky	29	137
Clay, sandy, hard	18	155
Sand and gravel, coarse, hard	28	183
Clay, blue, and sand	2	185
Sand and gravel, fine	36	221
Clay, blue	2	223
"Sandstone"	4	227
Sand and gravel	6	233
Clay	1	234
Sand, blue, water-bearing	4	238

Casing, 6-inch, set to 238 feet.

26/6-15M1. S. E. Seims. About 2 miles west of Duvall. Altitude about 555 feet. Dug by owner.

Vashon drift:		
Till:		
"Hardpan"	14	14
Advance outwash:		
Gravel, coarse	4	18

26/6-19L1. M. S. Slettebo. About 3.5 miles north of Redmond. Altitude about 430 feet. Drilled by Kjorsvik & Anderson.

Vashon drift:		
Till:		
"Hardpan"	100	100
Puyallup sand:		
Clay	30	130
Sand and gravel, intercalated with clay	106	236

Casing, 8-inch, set to 224 feet; screen, No. 20 slot set from 224 to 236 feet.

Table 3.--Materials penetrated by representative wells.--Con.

26/6-20M1. C. M. Welch. About 4 miles northeast of Redmond. Altitude about 140 feet. Drilled by Kjorsvik & Anderson.

Materials	Thickness (feet)	Depth (feet)
Admiralty drift:		
Clay and silt.	65	65
Sand.	--	--

Casing, 6-inch, set to 65 feet.

26/6-20M2. C. H. Fordney. About 4 miles northeast of Redmond. Altitude about 145 feet. Drilled by Kjorsvik & Anderson.

Admiralty drift:		
Clay and silt.	72	72
Sand.	--	--

Casing, 6-inch, set to 72 feet.

26/6-20N1. R. Rigby. About 3.5 miles northeast of Redmond. Altitude about 130 feet. Drilled by W. E. Peterson.

Vashon drift:		
Recessional outwash:		
Sand.	43	43
Till:		
"Hardpan".	2	45
Advance outwash:		
Sand and gravel, coarse.	2	47

Casing, 6-inch, set to 47 feet.

26/6-20P1. A. Sather. About 3.5 miles northeast of Redmond. Altitude about 150 feet. Drilled by Kjorsvik & Anderson.

Vashon drift:		
Till:		
"Hardpan".	16	16
Sand and gravel.	2	18
"Hardpan".	35	53
Advance outwash:		
Sand and gravel.	13	65
Clay, blue.	--	--

Casing, 6-inch, set to 60 feet; screen, No. 14, set from 60 to 65 feet.

Table 3.--Materials penetrated by representative wells.--Con.

26/6-20Q1. James Madden. About 4 miles northeast of Redmond. Altitude about 200 feet. Drilled by W. B. Gemmil, 1946.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Till:		
"Hardpan"	29	29
Admiralty drift:		
Silt, buff	24	53
Sand and gravel	2	55
Silt, buff	107	162
Wood	1	163
Silt, buff	104	267

Casing, 6-inch, set to 267 feet. Driller blew casing at 53 feet with dynamite.

26/6-20R1. Bill Hieb. About 4.5 miles northeast of Redmond. Altitude about 300 feet. Drilled by J. C. Maxwell, 1952.

Vashon drift:		
Till:		
"Hardpan"	70	70
Advance outwash:		
Sand	8	78

Casing, 6-inch, set to 78 feet.

26/6-21P1. Ivan Scheel. About 5 miles northeast of Redmond. Altitude about 475 feet. Drilled by John Malcolm, 1952.

Vashon drift:		
Recessional outwash:		
Sand	12	12
Till:		
"Hardpan"	22	34
Sand and gravel	3	37
"Hardpan"	25	62
Advance outwash:		
Sand and gravel	33	95
Orting gravel:		
Kitsap clay member:		
Clay, blue	14	109

Casing, 6-inch, set to 99 feet; perforated from 74 to 99 feet.

Table 3.--Materials penetrated by representative wells.--Con.

26/6-21P2. O. E. Keehr. About 5 miles northeast of Redmond. Altitude about 440 feet. Drilled by John Malcolm, 1952.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Till:		
"Hardpan"	66	66
Advance outwash:		
Gravel, water-bearing	2	68
Orting gravel:		
Kitsap clay member:		
Clay, yellow	97	165
Lower member:		
Sand and gravel	15	180
Sand, fine	40	220

Casing, 8-inch, set to 220 feet; perforated from 165 to 180 feet.

26/6-24C1. O. E. Thayer. About 1 mile south of Duvall. Altitude about 110 feet. Drilled by C. D. Marks, 1932.

Vashon drift:		
Till:		
Clay, yellow	10	10
"Hardpan"	12	22
Advance outwash:		
Gravel	2	24
Admiralty drift:		
Clay, blue, shot	20	44
Clay, blue	3	47
Clay, blue and "boulders	28	75
Clay, blue, shot	49	154
Clay, blue, sandy	3	157
"Boulders"	5	162
Clay, blue	33	195
Clay, shot	17	212
Gravel	1	213
Clay, blue	10	223
Sand	1	224
Clay, blue	1	225
Gravel, fine	1	226
Clay, blue	21	247
Sand, fine	4	251

Table 3.--Materials penetrated by representative wells.--Con.

26/6-25C1. A. P. Winkelman. About 2 miles south of Duvall. Altitude about 75 feet. Drilled by H. O. Meyer.

Materials	Thickness (feet)	Depth (feet)
Vashon drift:		
Recessional outwash:		
Clay	9	9
Till and advance outwash:		
"Hardpan" and gravel	5	14
Gravel	1	15
Admiralty drift:		
Clay	20	35
Sand, water-bearing	10	45
Clay	20	65
Sand	3	68
Clay, blue	132	200

Casing, 6-inch, set to 45 feet.

26/6-25F1. Vern Pickering. Novelty. Altitude about 60 feet. Drilled by H. O. Meyer, 1950.

Vashon drift:		
Till:		
Topsoil	1	1
Clay, yellow	2	3
"Hardpan" and gravel	6	9
"Hardpan"	9	18
Boulders	2	20
Gravel, water-bearing	2	22
"Hardpan", water-bearing	20	42
Gravel and sand, water-bearing	2	44
"Hardpan", soft caves	4	48
"Hardpan", compact	10	58

Casing, 6-inch, set to 58 feet; perforated from 42 to 48 feet.

26/6-30F1. I. Brown. About 2.75 miles northeast of Redmond. Altitude about 100 feet. Drilled by N. C. Jannsen, 1932.

Admiralty drift:		
Clay, yellow	6	6
Clay, blue	34	40
"Quicksand"	3	43
Clay, blue	15	58
Boulders	1	59
Clay, blue, tough	13	72
Clay, blue	83	155
"Shale", water-bearing	7	162
Clay, blue	21	183

Casing, 6-inch, set to 162 feet.

Table 3.--Materials penetrated by representative wells.--Concluded.

26/6-30F2. L. Brown. About 2.75 miles northeast of Redmond. Altitude about 100 feet. Drilled by H. O. Meyer, 1951.

Materials	Thickness (feet)	Depth (feet)
Admiralty drift:		
Topsoil	2	2
Clay, yellow	10	12
Clay, blue, sandy	28	40
Sand, water-bearing	4	44
Silt, sandy	8	52
Sand, fine, and silt	3	55

Casing, 6-inch, set to 38 feet.

26/6-30G1. F. B. Sahlstrom. About 2.75 miles northeast of Redmond. Altitude about 100 feet. Dug by owner.

Admiralty drift:		
Topsoil	8	8
Clay, blue	42	50
Sand, fine	--	--

Casing, 27-inch, set to 22 feet; 6-inch, set from 22 to 50 feet.

26/6-30Q1. Ed Bower. About 1.25 miles northeast of Redmond. Altitude about 95 feet. Drilled by N. C. Jannsen, 1946

Admiralty drift:		
Topsoil	5	5
Clay, blue	28	33
Sand, water-bearing	19	52
Gravel, medium, water-bearing	1	53

Casing, 6-inch, set to 52 feet.

26/6-31L1. Stanley Robstad. About 1.5 miles northeast of Redmond. Altitude about 100 feet. Drilled by John Malcolm.

Vashon drift:		
Topsoil	8	8
"Hardpan"	3	11
Admiralty drift:		
Clay, blue	289	300
Sand, fine, silty	48	348
Gravel	5	353

Casing, 6-inch.

Table 4.--Chemical analyses of ground water from the Sammamish Lake area, King County, Wash. (Analyses by U. S. Geological Survey (USGS) and commercial laboratories (C), as indicated. Parts per million.

Well number	24/4-12M1	24/5-4D1	24/5-7F1	24/5-9C1	24/5-16M1	24/6-27R1
Analyst	C	C	C	C	C	USGS
Date of collection	1-24-51	11-2-50	1-24-52	5-17-50	7-6-48	8-20-51
Silica (Si_2O)	27	65	28	38	48	17
Aluminum (Al)	.01	<.1**	--	tr*	<.1	--
Iron (Fe) in solution	.05	.3	1.00	tr	<.1	.01
Iron (Fe) total	--	--	1.15	--	--	.07
Manganese (Mn) total	--	--	--	tr	--	.00
Calcium (Ca)	12	25	--	15	3.4	22
Magnesium (Mg)	12	19	--	11	1.4	3.5
Sodium (Na)	5.0	304	--	8.8	58	7.4
Potassium (K)	--	--	--	--	--	1.8
Bicarbonate (HCO_3)	75	501	123	112	155	94
Sulfate (SO_4)	18	1.0	0	5.9	.5	8.6
Chloride (Cl)	7.7	278	3.7	2.5	8.9	2.4
Fluoride (F)	.0	.4	--	--	--	.1
Nitrate (NO_3)	.4	0	--	.13	tr	.1
Dissolved solids:	137	963	141	135	205	109
Sum-ppm						
-tons/acre-foot	.19	1.3	.19	.18	.28	.15
Hardness as $CaCO_3$:						
Total	88	142	109	82	14	69
Noncarbonate	--	0	--	.0	--	0
Percent sodium	12	83	--	19	90	18
Specific conductance (micromhos at 25°C.)	--	--	--	--	--	162
pH	7.4	8.2	8.1	7.7	8.0	8.0
Depth of well (feet)	62	610	77	140	277	45

*tr trace

** Algae bloom

Table 4.--Chemical analyses of ground water from the Sammamish Lake area, King County, Washington--Con.

Well number	24/6-28J1	24/7-10C1	24/7-11L1	25/5-1B1	25/5-5H1	25/5-5R1
Analyst	USGS	USGS	USGS	C	C	C
Date of collection	8-20-51	8-24-51	8-20-51	4-24-51	8-26-52	9- 5-52
Silica (SiO_2)	22	19	47	30	58	49
Aluminum (Al)	--	--	--	.02	2.0	.4
Iron (Fe) in solution	.01	15	1.6	.07	2.2	2.02
Iron (Fe) Total	--	--	--	--	--	--
Manganese (Mn) total	.00	.00	.00	--	--	<.05
Calcium (Ca)	10	12	20	6.6	12	11
Magnesium (Mg)	3.3	4.3	6.8	6.5	6.4	6.4
Sodium (Na)	5.4	6.3	6.6	4.7	17	18
Potassium (K)	1.6	2.4	3.4	--	--	--
Bicarbonate (HCO_3)	47	69	104	50	101	98
Sulfate (SO_4)	6.3	1.0	5.4	4.8	1.3	1.5
Chloride	3.4	4.8	2.5	5.5	6.8	6.8
Fluoride (F)	.2	.2	.2	.00	0	0
Nitrate (NO_3)	3.5	2.5	.2	.09	0	0
Dissolved solids: Sum-ppm	79	102	145	75	151	121
-tons/acre-foot	.11	.14	.20	.10	.21	.16
Hardness as $CaCO_3$:						
Total	38	48	78	43	57	53
Noncarbonate	0	0	0	2.4	0	0
Percent sodium	22	21	15	20	40	43
Specific conductance (micromhos at 25°C)	105	120	175	--	--	--
pH	7.0	7.2	7.7	7.1	7.3	7.2
Depth of well (feet)	54	52	--	Spring	200	201

Table 4.--Chemical analyses of ground water from the Sammamish Lake area, King County, Washington--Con.

Well number	25/5-17Q1	25/5-20F1	25/5-21Q1	25/5-32N1	26/5-5E1	26/5-30G1	26/5-32R1
Analyst	C	C	USGS	C	USGS	C	C
Date of collection	11-20-43	11- 2-50	8-24-52	1-26-50	8-24-51	4-30-48	1-12-53
Silica (SiO_2)	29	38	33	44	47	57	63
Aluminum (Al)	--	<.1	--	0	--	.2	.03
Iron (Fe) in solution	--	.3	.02	<.1	.03	2.3	.25
Iron (Fe) Total	10	--	--	--	--	--	.75
Manganese (Mn) total	--	--	.00	--	.00	.1	tr
Calcium (Ca)	18	13	6.3	16	21	12	14
Magnesium (Mg)	7.5	9.6	6.2	10	8.4	11	8.7
Sodium (Na)	3.4	15	3.8	22	8.6	.9	12
Potassium (K)	--	--	1.4	--	4.0	--	--
Bicarbonate (HCO_3)	--	105	49	137	128	95	110
Sulfate (SO_4)	2.5	2.5	6.3	.2	1.7	<.1	1.2
Chloride (Cl)	5.2	10	4.1	13	2.9	1.4	4.1
Fluoride (F)	--	.4	.2	--	.3	--	0
Nitrate (NO_3)	0	0	.9	0	.7	--	0
Dissolved solids:							
Sum-ppm	120	141	86	176	158	141	135
-tons/acre-foot	.16	.19	.12	.24	.21	.19	.18
Hardness as $CaCO_3$:							
Total	60	71	41	88	87	72	71
Noncarbonate	--	0	1	--	0	0	0
Percent sodium	9	31	16	37	17	2.5	27
Specific conductance (micromhos at 25°C)	--	--	102	--	201	--	--
pH	7.4	7.8	7.2	7.8	7.2	7.2	7.0
Depth of well (feet)	108	244	100	1,055	230	184	304