DATA FOR GROSS ALPHA, GROSS BETA, GROSS RADIUM AS RADIUM-226, AND URANIUM IN GROUND AND SURFACE WATERS IN THE UNITED STATES, MID-1954 THROUGH 1965.

By V.J. Janzer, G.W. Stanley, H.K. Long,
J.W. Farrar, and K.A. Brezina

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ABSTRACT

This report presents previously unpublished radiochemical data for approximately 3,000 ground-water and surface-water samples collected from 47 states during mid-1954 through 1965. Data are reported for approximately 1,900 ground-water and 1,100 surface-water samples. Data for gross alpha, gross beta, gross radium as radium-226, and natural uranium concentrations are given for most samples.

These data provide information regarding the background radioactivity levels in many of the Nation's waters before much of the large scale testing of nuclear weapons by the major world powers. These data also may be useful for identifying and evaluating long-term variations and trends.

INTRODUCTION

The late 1940's and early 1950's were a time of rapid nuclear weapon development and testing (Smyth, 1946; Jungk, 1958). These tests resulted in the widespread distribution of short- and long-lived radionuclides in the environment (Fradkin, 1989). Concern about the presence of these radionuclides in the environment, especially in ground and surface waters, resulted in the development of laboratory capabilities for analyzing radionuclides in water by the U.S. Geological Survey. The first U.S. Geological Survey laboratory capabilities were developed (about 1953) in Washington, D.C., for the determination of tritium and uranium in water samples. A second laboratory capability was developed (about 1954) at the Denver Federal Center in Colorado for the determination of gross alpha, gross beta, and gross radium in water samples.

From mid-1954 through 1965, the U.S. Geological Survey collected several thousand natural ground- and surface-water samples from across the United States for analysis of selected radionuclides. Results of radium and uranium analyses for 561 ground-water samples were published by Scott and Barker (1962). Analytical results for most of the samples collected during the 1954-1965 period, however, were not published.

This report presents the previously unpublished radiochemical data obtained by analyzing approximately 3,000 ground- and surface-water samples collected from 47 states during mid-1954 through 1965. No samples were collected from Delaware, New Hampshire, or Vermont. Sample-site and radiochemical data are presented for about 1,900 ground-water samples and 1,100 surface-water samples.

Although the data presented in this report may not meet present-day criteria for sample identification and analytical quality assurance, these analyses nevertheless constitute a valuable historical data base and may be useful for identifying and evaluating long-term variations and trends. The samples generally were collected from natural, relatively pristine sources.

During the initial phases of the radiochemical-data-acquisition efforts, sampling locations were only vaguely identified for many of the samples that were collected. In addition, new analytical instrumentation was being acquired and tested, and new analytical methods were being developed. These reasons may explain, in part, why these data were not published at that time.

Beginning in 1964, radiochemical data of a comparable nature were collected monthly for many of the Nation's major rivers, as part of a Radiochemical Surveillance Network project conducted by the U.S. Geological Survey. Additional radiochemical data also were collected by the same project at more than 50 Hydrologic Benchmark Network stations on small, relatively pristine streams. These data are available through the National Water Data Storage and Retrieval System (WATSTORE), the U.S. Geological Survey's automated data-storage and data-retrieval system.

SAMPLE COLLECTION AND PRESERVATION

Collection of ground-water samples generally was accomplished by allowing the tap or pump to run for several minutes before collecting a sample, preferably without visible turbidity. All samples were collected in 1-gal borosilicate glass bottles. From about the mid-1950's through the early 1960's, samples were preserved by the addition of 2 to 3 mL of a glacial acetic acid and chloroform mixture. The preservative was added to minimize precipitate formation and algal and bacterial growth. Surface-water samples were collected by dipping water from a well-mixed, representative part of the stream. Turbid ground-water and all surface-water samples were filtered in the laboratory prior to analysis, and samples were usually analyzed within 1 to 2 months after collection.

In the early 1960's, water sampling bottles were changed from glass to polyethylene. This was done to reduce costs, eliminate breakage in shipment, and to simplify handling. In the mid-1960's, unpublished laboratory studies indicated that most well aerated surface-water samples remained stable for 6 months or more without the use of the acetic acid-chloroform preservative. Preservative use was, therefore, discontinued for most surface-water samples, but they were stored in the dark to reduce algal and bacterial growth. Ground-water samples also were generally collected and stored without preservatives. Occasionally, however, ground-water samples containing reduced iron

or other salts required the addition of hydrochloric or nitric acid to decrease the pH to 1 or less. This usually prevented the formation of precipitates. Extremely saline thermal ground-water samples occasionally required the addition of measured quantities of distilled water to prevent salt precipitation.

RADIOCHEMICAL CALIBRATION STANDARDS AND ANALYSES

A variety of calibration standards have been recommended and used by various agencies throughout the years for gross-alpha and gross-beta (beta-gamma) determinations. Problems inherent in the use of multiple calibration standards, and the lack of comparability of sample analyses obtained when using different standards, were described in detail by Janzer (1980). The practice of multiple calibration-standard use, however, continues.

Analyzing laboratories rarely indicate the calibration standards used when gross radiochemical data are reported. Reliable conversion factors generally are not known or applicable to compensate for the differences of the alpha and beta energies associated with various isotopes, and the differences of the absorption characteristics of dissolved-solids residues that are obtained from water samples of different composition.

Since 1954, the U.S. Geological Survey has used natural uranium as the standard of choice for gross-alpha calibration and measurements, and all gross-alpha results in this report are based on the use of this calibration standard. Natural uranium (acetate) with the equilibrium, undepleted isotopic abundances of uranium-234, uranium-235, and uranium-238 were used for the preparation of calibration counting planchets. Uranium isotope abundances were determined by alpha spectrometry as described by Edwards (1968). Gross-alpha concentrations were expressed in terms of the weight equivalent of natural uranium (micrograms of natural uranium per liter), which would yield the same activity in the water sample.

Scott and Barker (1962) noted that gross-beta concentrations given in their report were determined and reported in terms of thallium-204 as the calibration standard. Strontium-90/yttrium-90 became the standard of choice for the U.S. Geological Survey about or shortly after 1957. Details of the analytical procedures used for determining gross-beta radioactivity were described by Barker and Robinson (1963). Cesium-137 became more commonly used as a gross-beta calibration standard beginning in the early 1960's. U.S. Geological Survey gross-beta results were reported in terms of both of the commonly used calibration standards strontium-90/yttrium-90 and cesium-137 after about mid-1965.

Thallium-204 decays by beta emission (β^-) with a maximum energy of 0.766 MeV. Strontium-90 decays by beta emission (β^-) with a maximum energy of 0.546 MeV. The strontium-90 decay is accompanied by simultaneous β^- decay of an equilibrium amount of the short-lived yttrium-90 daughter, which decays with a β^- maximum energy of 2.27 MeV. Cesium-137 decays 6.5 percent by β^- with a 1.176 MeV maximum and 93.5 percent with a 0.514 MeV maximum (Lederer and others, 1968). There is no simple direct way of converting gross beta measurement results based on one standard to results obtained using other standards.

Janzer (1980) reported experimental results, using natural uranium and americium-241 as gross-alpha calibration standards, which showed that gross-alpha measurements differed by as much as 100 percent when equivalent water samples were analyzed. Differences in gross-beta measurements of equivalent water samples, as a result of using strontium-90/yttrium-90 versus cesium-137 standards, varied from 0 to 25 percent depending on the evaporated dissolved-solids-residue thickness in the counting planchets.

There may be some concern regarding the validity and comparability of gross-radioactivity analyses made in the mid-1950's with analyses made at later dates. Comparing the variety of calibration standards in use today with those used in the mid-1950's, differences of as much as 100 percent in the analytical results obtained for the same sample by different laboratories may not be uncommon. Even with differences of these magnitudes, however, gross-radioactivity analyses can be quite useful as indicators of change or to identify areas where water is possibly contaminated by radionuclides. A lack of appreciable gross radioactivity in water samples from a specific area commonly obviates the need for repetitive sampling and more complex and costly analyses.

ANALYTICAL PROCEDURES

Gross-alpha and gross-beta analyses given in tables 1 and 2 of this report were performed by evaporating measured aliquots of the filtered samples to dryness in platinum or Teflon[1] evaporating dishes. On the basis of the specific conductance of the untreated sample, an aliquot volume was selected to yield a weight of no more than 150 mg of dissolved-solids residue after evaporation. Repetitively using several-mL volumes of distilled water and a rubber policeman, the dissolved-solids residue was quantitatively transferred to ringed aluminum or stainless-steel counting planchets.

Calibration standards were prepared to provide self absorption curves for varying weights of residue up to about 150 mg. These standards contained measured quantities of a calibration isotope and varying volumes of simulated natural water to yield a range of dissolved-solid residues. The resulting series of standards and samples were counted using low-background, thin-window counters to provide the data needed to prepare calibration curves and for sample analysis. Blanks were used to determine long-term average background counting levels. Gross-alpha and gross-beta error estimates (95-percent confidence limits) were based on counting statistics as described by Barker and Robinson (1963). Reproducibility in preparing counting planchets was estimated to have had a standard deviation of about 10 percent. Details of the procedures for preparing gross-alpha and gross-beta calibration curves were given by Janzer (1980).

Gross radium as radium-226 was determined using a barium-sulfate precipitation procedure described by Barker and Johnson (1964). A certified radium-226 solution standard obtained from the National Bureau of Standards was used for calibration purposes. All radium isotopes present in a filtered

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[1]Use of trade names in this report is for identification purposes only and does not constitute endorsement by the U.S. Geological Survey.

water sample were coprecipitated with the barium sulfate. The precipitate was removed by filtration through a membrane filter and the filter was then mounted on a counting planchet. After drying, the filter and the retained barium-sulfate precipitate was covered with a thin plastic film, and then allowed to age several weeks to allow ingrowth of short-lived daughters. The aged samples and standards were then counted using the same low-background, thin-window counters as were the gross-alpha and gross-beta samples. All alpha activity determined in the barium-sulfate precipitate was reported as radium-226.

Error estimates of the radium determinations were given by Barker and Johnson (1964) as follows: "The two standard deviation level is probably about 0.1 pCi for samples containing 0.1-0.5 pCi of radium per liter and about 20 percent for samples containing more than 0.5 pCi of radium per liter."

All elemental uranium present in a sample, without regard to the isotopic abundances, was determined using a fluorometric procedure detailed by Barker and others (1965). A small aliquot of water (maximum volume of 7 mL) was evaporated to dryness in a platinum planchet. The dissolved-solids residue was then fused with a mixed sodium-potassium/carbonate-fluoride flux to form a pellet. After cooling, fluorescence of the pellet was determined using ultraviolet light. Spiked samples with added uranium were used to correct for quenching effects resulting from the presence of heavy metals or other impurities in the samples. Standards and blanks prepared in similar fashion enabled measurements of uranium as low as 0.4 mg/L. When analyzing highly saline samples, aliquots of only fractions of a milliliter may have been used, and uncertainties in the analyses were greatly multiplied when concentrations were expressed in terms of liter volumes.

Uranium analyses performed by the fluorometric technique are subject to quenching errors caused by the presence of interfering heavy metals. Error estimates given by Barker and others (1965) for uranium analyses ranged from -6 to +8 percent for water samples containing 60 to 916 mg/L dissolved solids and spiked to a concentration of 10.0 mg/L uranium. The water samples used had previously been determined to be free of uranium. Uranium recovery from equivalent water samples spiked to a final concentration of 2.0 mg/L uranium was found to range from -37 to +27 percent of the spiking concentration.

Error estimates used for uranium data in this report appear to have been ±0.4 mg/L for uranium concentrations less than 5 mg/L and ±10 percent for uranium concentrations greater than 5 mg/L.

TABLE DESCRIPTIONS

Sample-site information for tables 1 (ground water) and 2 (surface water) was obtained from the original laboratory records, and when available, includes the state, county, location of point of collection, and date and time sampled. In table 1, the nearest community, owner or operator of the sampled wells, water-yielding unit, depth of well, and water temperature are listed when possible. In table 2, the river or stream from which the samples were collected and the discharge at the time of sampling are listed when possible.

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Table 1.-- ***Sample-site data and radiochemical***

(ft, feet; Temp, temperature; °C, degrees Celsius; pCi/L, picocuries per liter; fluor., fluorometric;

County	Nearest community	Location of point of collection	Owner or operator	Date sampled
ALABAMA				
Montgomery	Montgomery	Dayst plant, finished water	Dayst plant	8/29/61
Montgomery	Montgomery	Court Street plant, finished water	City of Montgomery	8/29/61
ALASKA				
- -	Delta Junction	Fort Greely, Nuclear Power Reactor Supply, Drilled well no. 2, discharge pipe	Fort Greely	11/4/59
- -	Delta Junction	Fort Greely, Nuclear Power Reactor Supply, Drilled well no. 1, discharge pipe	Fort Greely	11/20/59
- -	Point Hope	Town water supply, Point Hope	Town of Point Hope	7/30/60
ARIZONA				
Graham	Pima	Mack Well	- -	e. 05/54
Pima	Tucson	Well no. 7	- -	e. 05/54
Greenlee	Duncan	Duncan	- -	e. 12/54
Pinal	Mammouth	5 mi SE. of Mammouth	- -	e. 12/54
Coconino	Flagstaff	6 mi SW. of Flagstaff	- -	e. 01/55
Yavapai	Chino Valley	3 mi N. of Chino Valley	- -	e. 01/55
Coconino	Oraibi	22 mi SW. of Oraibi	- -	e. 04/55
Coconino	Tuba City	8 mi S. of Tuba City	- -	e. 04/55
Coconino	Tuba City	15 mi SE. of Tuba City	- -	e. 04/55
Coconino	Tuba City	7 mi E. of Tuba City	- -	e. 04/55
Coconino	Tuba City	16 mi SE. of Tuba City	- -	e. 04/55
Coconino	Tuba City	5 mi W. of Tuba City	- -	e. 04/55
Coconino	Oraibi	15 mi SW. of Oraibi	- -	e. 04/55
Coconino	Tuba City	13 mi S. of Tuba City	- -	e. 04/55
Coconino	- -	9 mi NE. of Inscription House	- -	e. 04/55
Coconino	Oraibi	12 mi SW. of Oraibi	- -	e. 04/55
Coconino	- -	2 mi SW. of Inscription House	- -	e. 04/55
Coconino	The Gap	8 mi N. of The Gap	- -	e. 04/55
Coconino	Kaibito	NE. of Kaibito	- -	e. 06/55
Apache	Rough Rock	NE. of Rough Rock	- -	e. 06/55
Coconino	Shonto	W. of Shonto	- -	e. 06/55
Navajo	Shonto	N. of Shonto	- -	e. 06/55
Navajo	- -	8 mi SW. of Shungopovi Day School	- -	e. 06/55
Coconino	Kaibito	Kaibito	- -	e. 06/55
Navajo	Kayenta	SE. of Kayenta	- -	e. 06/55
Coconino	Tuba City	E. of Tuba City	- -	e. 06/55
Apache	Rough Rock	NE. of Rough Rock	- -	e. 06/55
Apache	Rough Rock	SE. of Rough Rock	- -	e. 06/55
Coconino	The Gap	N. of The Gap	- -	e. 06/55
Coconino	- -	S. of Inscription House	- -	e. 06/55
Navajo	Chilchinbito	NE. of Chilchinbito	- -	e. 06/55
Apache	Mexican Water	S. of Mexican Water	- -	e. 08/55
Apache	Rock Point	SE. of Rock Point Trading Post	U.S. Indian Service	7/28/55
Navajo	Kayenta	SE. of Kayenta	U.S. Indian Service	7/28/55
Coconino	Page	40 mi E. of Page	- -	e. 08/55

data for selected ground-water samples

U, uranium; µg/L, micrograms per liter; Sr-90, strontium-90; Y-90, yttrium-90;
--, no data; < , less than; > , greater than; e., estimated; mi, miles)

Time (24 hour)	Water-yielding unit	Depth of well (ft)	Temp (°C)	Gross alpha; U-natural (µg/L)	Gross beta; Sr-90/Y-90 (pCi/L)	Radium-226 planchet (pCi/L)	U-natural; direct fluor. (µg/L)
--	--	--	--	--	2.9 ± 0.4	0.1 ± 0.1	< 0.1
--	--	--	--	--	2.7 ± 0.4	0.1 ± 0.1	< 0.1
1030	--	332	4	< 0.7	6.2 ± 1	< 0.1	1.1 ± 0.1
1537	--	332	4.5	1.6 ± 0.5	3.8 ± 0.8	< 0.1	1.1 ± 0.1
--	Beach gravels	> 6	e. 3	< 1.1	2.6 ± 0.4	< 0.2	< 0.1
--	--	--	--	--	< 140	0.3	1.1
--	--	--	--	--	< 17	0.1	6.1
--	--	--	--	--	< 23	< 0.1	15.0
--	--	--	--	--	< 11	0.1	0.7
--	--	--	--	--	< 7	1.0	0.5
--	--	--	--	--	< 7	< 0.1	1.0
--	--	--	--	--	18	0.1	13.0
--	--	--	--	--	70	< 0.1	27.0
--	--	--	--	--	17	0.3	2.6
--	--	--	--	--	< 14	0.1	2.9
--	--	--	--	--	< 14	< 0.1	0.1
--	--	--	--	--	< 7	< 0.1	2.9
--	--	--	--	--	< 17	0.2	2.4
--	--	--	--	--	< 7	0.1	12.0
--	--	--	--	--	< 8	< 0.1	0.4
--	--	--	--	--	29	0.5	0.2
--	--	--	--	--	< 8	< 0.1	0.9
--	--	--	--	--	< 7	0.1	0.9
--	--	--	--	--	8	< 0.1	1.1
--	--	--	--	--	22	< 0.1	24.0
--	--	--	--	--	24	< 0.1	1.1
--	--	--	--	--	< 7	< 0.1	< 0.1
--	--	--	--	--	< 14	0.2	4.6
--	--	--	--	--	< 7	< 0.1	0.3
--	--	--	--	--	< 11	< 0.1	2.5
--	--	--	--	--	< 7	< 0.1	0.7
--	--	--	--	--	36	< 0.1	8.7
--	--	--	--	--	< 170	< 0.1	14.0
--	--	--	--	--	13	< 0.1	0.2
--	--	--	--	--	< 8	< 0.1	0.6
--	--	--	--	--	< 17	< 0.1	0.9
--	--	--	--	--	< 8	0.2	2.8
--	Redwall Limestone	641	20.5	--	24	< 0.1	17.0
--	Navajo Sandstone	900	24.5	--	< 11	< 0.1	1.7
--	--	--	--	--	23	0.1	1.0

Table 1.-- *Sample-site data and radiochemical*

County	Nearest community	Location of point of collection	Owner or operator	Date sampled
ARIZONA (cont.)				
Apache	Mexican Water	S. of Mexican Water	- -	e. 08/55
Gila	Globe	Globe	City of Globe	e. 01/56
Cochise	Douglas	Douglas	City of Douglas	e. 12/55
Yuma	Yuma	Yuma	City of Yuma	e. 01/56
Pima	Tucson	SW. of Tucson	- -	e. 03/56
Graham	Clifton	Clifton	- -	e. 03/56
Cochise	Dragoon	Dragoon	- -	e. 03/56
Pinal	Casa Grande	3 mi W. of Casa Grande	- -	e. 03/56
Yuma	Roll	7.5 mi E. and 2 mi N. of Roll	- -	e. 03/56
Mohave	Chloride	City of Chloride	City of Chloride	e. 03/56
Graham	Fort Thomas	Fort Thomas	- -	e. 03/56
Pinal	Casa Grande	3 mi S. and 0.5 mi E. of Casa Grande		e. 02/57
Pinal	Coolidge	3 mi and 1.5 mi E. of Coolidge	- -	e. 02/57
Pinal	Coolidge	2.75 mi NE. and 6.5 mi N. of Coolidge	- -	e. 02/57
Pinal	- -	- -	- -	e. 02/57
Pinal	Sacaton	3 mi N. and 1 mi E. of Sacaton	- -	e. 02/57
Pinal	Coolidge	1.25 mi N. and 0.5 mi E. of Coolidge	- -	e. 02/57
Pinal	Coolidge	2.75 mi N. and 0.5 mi W. of Coolidge	- -	e. 02/57
Pinal	Coolidge	1.25 mi N. and 0.5 mi E. of Coolidge	- -	e. 02/57
Pinal	Coolidge	3 mi N. and 1.5 mi E. of Coolidge	- -	e. 02/57
Pinal	Coolidge	0.5 mi N. and 2 mi E. of Coolidge	- -	e. 02/57
Pinal	Coolidge	3 mi S. and 0.5 mi E. of Casa Grande	- -	e. 02/57
Pinal	Coolidge	1.25 mi N. and 3.25 mi E. of Coolidge	- -	e. 02/57
Cochise	Bisbee	Bisbee	- -	e. 03/57
Maricopa	Glendale	Glendale	- -	e. 03/57
Maricopa	Buckeye	Buckeye	City of Buckeye	e. 03/57
Pinal	Casa Grande	5.75 mi N. and 2 mi E. of Casa Grande	- -	e. 03/57
Pinal	Casa Grande	9 mi W. and 5.5 mi S. of Casa Grande	- -	e. 03/57
Pinal	Coolidge	2 mi S. and 2 mi W. of Coolidge	- -	e. 03/57
Pinal	Casa Grande	9.5 mi W. and 5 mi N. of Casa Grande	- -	e. 03/57
Pinal	Coolidge	6 mi S. of Coolidge	- -	e. 03/57
Pinal	Eloy	4 mi N. and 1 mi E. of Eloy	- -	e. 03/57
Pinal	Coolidge	5.5 mi S. and 4.5 mi W. of Coolidge	- -	e. 03/57
Pinal	Coolidge	2 mi S. and 2 mi E. of Coolidge	- -	e. 03/57
Maricopa	Mesa	T. 6 S., R. 4 E., Sec. 24, NW1/4	John W. Dotts, Sr.	e. 12/57
Pinal	Eloy	T. 6 S., R. 7 E., Sec. 36, NE1/4	J. W. Blake	11/7/57
Pinal	Stanfield	T. 7 S., R. 4 E., Sec. 16, SW1/4	Connelly and Marsh	11/7/57
Pinal	Eloy	5 mi W. and 1 mi N. of Eloy	- -	e. 01/58
Pinal	Casa Grande	5 mi W. of Casa Grande	- -	e. 01/58
Pinal	Eloy	1.5 mi N. and 2 mi E. of Eloy	- -	e. 01/58
Pinal	Stanfield	4.5 mi W. of Stanfield	- -	e. 01/58
Pinal	Casa Grande	5.5 mi W. and 2 mi S. of Casa Grande	- -	e. 01/58
Pinal	- -	- -	- -	e. 01/58
Pinal	Maricopa	2 mi E. of Maricopa	- -	e. 01/58
Pinal	Maricopa	6 mi S. and 4 mi W. of Maricopa	- -	e. 01/58
Pinal	Maricopa	6 mi E. and 2 mi S. of Maricopa	- -	e. 01/58
Maricopa	Peoria	4 mi S. of Peoria	- -	e. 03/58
Maircopa	Goodyear	Goodyear	- -	e. 03/58
Maricopa	Litchfield	Litchfield	- -	e. 03/58
Maricopa	Peoria	1 mi E. of Peoria	- -	e. 03/58

data for selected ground-water samples--Continued

Time (24 hour)	Water-yielding unit	Depth of well (ft)	Temp (°C)	Gross alpha; U-natural (µg/L)	Gross beta; Sr-90/Y-90 (pCi/L)	Radium-226 planchet (pCi/L)	U-natural; direct fluor. (µg/L)
--	--	--	--	--	< 11	0.1	3.2
--	--	--	--	--	29	0.1	3.6
--	--	--	--	--	< 34	< 0.1	3.8
--	--	--	--	--	< 45	0.2	6.9
--	--	--	--	--	< 140	1.5	11.0
--	--	--	--	--	< 490	13.0	0.9
--	--	--	--	--	< 11	0.1	< 0.1
--	--	--	--	--	< 110	< 0.1	64.0
--	--	--	--	--	< 68	0.2	0.9
--	--	--	--	--	< 240	0.3	12.0
--	--	--	--	--	< 14	< 0.1	0.4
--	--	--	--	--	< 68	1.8	17.0
--	--	--	--	--	< 85	0.1	7.7
--	--	--	--	--	< 17	0.1	3.4
--	--	--	--	--	< 110	< 0.1	15.0
--	--	--	--	--	< 110	0.1	11.0
--	--	--	--	--	< 68	0.2	4.6
--	--	--	--	--	< 17	0.1	2.9
--	--	--	--	--	< 68	< 0.1	11.0
--	--	--	--	--	< 110	< 0.1	6.7
--	--	--	--	--	< 85	0.1	34.0
--	--	--	--	--	< 68	0.9	13.0
--	--	--	--	--	< 85	< 0.1	15.0
--	--	--	--	--	< 14	0.1	0.7
--	--	--	--	--	< 23	< 0.1	0.5
--	--	--	--	--	< 85	0.1	2.6
--	--	--	--	--	< 17	< 0.1	1.9
--	--	--	--	--	< 45	< 0.1	20.0
--	--	--	--	--	< 85	< 0.1	33.0
--	--	--	--	--	< 68	0.2	8.3
--	--	--	--	--	< 68	< 0.1	10.0
--	--	--	--	--	< 17	0.1	3.0
--	--	--	--	--	< 45	0.1	6.3
--	--	--	--	--	< 68	< 0.1	20.0
--	--	--	--	8.9	< 50	0.1	7.0
--	--	452	27	< 6.0	< 38	0.1	5.2
--	Alluvium	905	30.5	20.0	< 38	< 0.1	15.0
--	--	--	--	< 4.0	< 25	< 0.1	1.6
--	--	--	--	26.0	< 130	0.1	29.0
--	--	--	--	< 28.0	< 50	0.1	6.1
--	--	--	--	14.0	< 30	0.2	24.0
--	--	--	--	< 17.0	< 94	0.1	3.2
--	--	--	--	13.0	< 19	0.2	5.1
--	--	--	--	< 8.0	< 38	0.1	0.5
--	--	--	--	15.0	< 38	0.2	2.6
--	--	--	--	12.0	< 50	0.1	15.0
--	--	--	--	11.0	< 50	< 0.1	2.1
--	--	--	--	9.0	< 34	< 0.1	0.2
--	--	--	--	< 4.0	< 17	< 0.1	3.8
--	--	--	--	3.0	< 19	< 0.1	2.3

Table 1.-- *Sample-site data and radiochemical*

County	Nearest community	Location of point of collection	Owner or operator	Date sampled
ARIZONA (cont.)				
Maricopa	Scottsdale	Scottsdale	--	e. 03/58
Maricopa	Cashion	Cashion	--	e. 03/58
Maricopa	Beardsley	Beardsley	--	e. 03/58
Maricopa	Litchfield	Litchfield	--	e. 03/58
Maricopa	Deer Valley	Deer Valley	--	e. 03/58
Maricopa	Beardsley	4 mi SW. of Beardsley	--	e. 03/58
Maricopa	Beardsley	Beardsley	--	e. 04/58
Maricopa	--	--	--	e. 04/58
Maricopa	Perryville	Perryville	--	e. 04/58
Maricopa	Paradise Valley	Paradise Valley	--	2/6/58
Maricopa	Litchfield	6 mi W. of Litchfield	--	2/10/58
Maricopa	Marinette	Marinette	--	2/10/58
Maricopa	Lehi	Lehi	--	2/7/58
Maricopa	Beardsley	3 mi S. of Beardsley	--	e. 04/58
Pinal	Casa Grande	3 mi S. and 4 mi E. of Casa Grande	--	e. 04/58
Pinal	Casa Grande	5.5 mi S. of Casa Grande	--	e. 04/58
Pinal	Stanfield	5.5 mi E. and 6 mi S. of Stanfield	--	2/17/58
Pinal	Casa Grande	3 mi S. of Casa Grande	--	2/18/58
Pinal	Maricopa	3 mi SE. of Maricopa	--	2/17/58
Pinal	Casa Grande	1.5 mi S. and 4 mi E. of Casa Grande	--	e. 04/58
Pinal	Stanfield	2.5 mi W. and 1.5 mi S. of Stanfield	--	e. 04/58
Pinal	Stanfield	3 mi S. and 3.5 mi E. of Stanfield	--	2/17/58
Maricopa	--	--	--	2/25/58
Maricopa	Scottsdale	Scottsdale	--	2/28/58
Maricopa	Phoenix	Phoenix	City of Phoenix	7/27/61
Pima	Tucson	Composite of wells at plant no. 1, well no. 1, 3, 7, 9-21	City of Tucson	1/10/62
Pima	Tucson	Composite of wells at plant no. 3, well no. 1, 2, 4	City of Tucson	1/10/62
Maricopa	Phoenix	Composite of wells in Verde Well Field	City of Phoenix	1/11/62
Maricopa	Phoenix	Scottsdale well no. 36	City of Phoenix	1/11/62
Pima	Tucson	Composite of Upper Santa Cruz wells, S. of Municipal Airport	City of Tucson	1/10/62
Apache	--	T. 40 N., R. 29 E., Sec. 9, SE1/4 Dry Farm Wash, spring	Navajo Indian Reservation	10/21/62
Coconino	Wahweap National Monument	T. 42 N., R. 8 E., Sec. 36, SW1/4	National Park Service	3/28/63
Coconino	Wahweap National Monument	T. 42 N., R. 8 E., Sec. 35, NE1/4 Wahweap National Monument, well no. 5	Merritt, Champa, and Scott Inc., New York	3/28/63
ARKANSAS				
Izard	Melbourne	1 mi E. of Melbourne	--	e. 10/54
Montgomery	Norman	E. of Arkansas Highway 27, Norman	--	e. 10/54
Saline	--	Arkansas Highway 9	--	e. 10/54
Sharp	Cave City	Cave City, N. of County line	--	e. 10/54
White	Bald Knob	4 mi SE. of Bald Knob	--	e. 12/55
Drew	Monticello	7 mi NE. of Monticello	--	e. 01/58
Drew	Monticello	3 mi NE. of Monticello	--	e. 01/58
Jefferson	Pine Bluff	Pine Bluff, well no. 11	--	e. 12/55
Columbia	Magnolia	3 mi E. of Magnolia	--	e. 01/58

data for selected ground-water samples--Continued

Time (24 hour)	Water-yielding unit	Depth of well (ft)	Temp (°C)	Gross alpha; U-natural (µg/L)	Gross beta; Sr-90/Y-90 (pCi/L)	Radium-226 planchet (pCi/L)	U-natural; direct fluor. (µg/L)
--	--	--	--	8.0	< 17	< 0.1	6.9
--	--	--	--	28.0	< 50	0.1	6.6
--	--	--	--	< 2.0	< 11	< 0.1	2.8
--	--	--	--	< 2.0	< 10	< 0.1	2.3
--	--	--	--	8.0	< 34	< 0.1	2.9
--	--	--	--	< 2.0	< 10	< 0.1	2.4
--	--	--	--	< 3.0	< 11	< 0.1	4.0
--	--	--	--	< 3.0	15	< 0.1	2.3
--	--	--	--	< 3.0	< 11	< 0.1	2.4
--	--	--	--	< 3.0	< 8	< 0.1	4.2
--	--	--	--	< 2.0	< 10	< 0.1	1.7
--	--	--	--	< 3.0	< 17	< 0.1	1.5
--	--	--	--	< 2.0	< 38	< 0.1	1.5
--	--	--	--	< 3.0	< 17	< 0.1	3.0
--	--	--	--	< 4.0	< 38	0.1	8.7
--	--	--	--	64.0	< 84	< 0.1	38.0
--	--	--	--	4.5	41	< 0.1	4.2
--	--	--	--	52.0	< 84	0.1	41.0
--	--	--	--	28.0	< 45	0.1	11.0
--	--	--	--	48.0	62	0.2	37.0
--	--	--	--	< 6.0	< 38	< 0.1	15.0
--	--	--	--	5.0	< 19	< 0.1	9.2
--	--	--	--	6.0	< 38	0.1	7.3
--	--	--	--	14.0	< 34	0.1	7.4
--	--	--	28	< 15.0	11 ± 2	< 0.1	1.3 ± 0.1
--	--	--	22	--	7.7 ± 1.2	< 0.1	6.2 ± 0.6
--	--	--	21	--	< 1.1	< 0.1	1.6 ± 0.2
--	--	--	20	--	5.7 ± 0.9	0.2 ± 0.1	2.6 ± 0.3
--	Alluvium	1000	29	--	21 ± 3	0.4 ± 0.1	5.5 ± 0.5
--	--	--	24.5	--	5.3 ± 0.8	0.1 ± 0.1	7.3 ± 0.7
--	Salt Wash Sandstone Member of Morrison Formation	--	--	--	5.1 ± 0.8	0.6 ± 0.1	3.2 ± 0.4
--	Navajo Sandstone	705	22	--	25 ± 4	0.1 ± 0.1	7.2 ± 0.7
--	Navajo Sandstone	625	23	--	25 ± 4	< 0.1	6.6 ± 0.7
--	--	--	--	--	< 7	0.1	0.3
--	--	--	--	--	< 7	0.1	0.3
--	--	--	--	--	< 7	0.4	0.3
--	--	--	--	--	9	0.1	< 0.1
--	--	--	--	--	< 110	1.9	0.2
--	--	--	--	--	< 140	1.7	17.0
--	--	--	--	--	< 170	7.1	69.0
--	--	--	--	--	< 11	0.3	0.1
--	--	--	--	--	< 17000	99.0	0.7

Table 1.-- *Sample-site data and radiochemical*

County	Nearest community	Location of point of collection	Owner or operator	Date sampled
ARKANSAS (cont.)				
Garland	Hot Springs National Park	Hot Springs National Park at heat exchange unit	--	e. 06/56
Garland	Hot Springs National Park	Hot Springs National Park, collected at the pump	--	e. 06/56
		Hot Springs National Park, well no. 2	--	e. 06/56
Pike	Murfreesboro	Murfreesboro	--	e. 02/57
Poinsett	Lepanto	Lepanto	--	e. 02/57
Conway	Morrilton	Morrilton	City of Morrilton	2/28/58
Pope	Atkins	Atkins	City of Atkins	2/28/58
Lonoke	Cabot	Cabot	City of Cabot	2/27/58
Calhoun	Thornton	Thornton	City of Thorton	3/6/58
Ouachita	Camden	Naval Ammunition Depot, Camden	--	3/6/58
Bradley	Warren	Warren	City of Warren	3/6/58
Ouachita	Bearden	Bearden	--	3/6/58
Crittenden	Turrell	Turrell	Town of Turrell	3/7/58
Searcy	Marshall	Marshall	City of Marshall	3/4/58
Crittenden	Marion	Marion	City of Marion	3/7/58
Benton	Pea Ridge	Pea Ridge	--	8/21/58
Benton	Gravette	Gravette	--	8/21/58
Benton	Rogers	Rogers	--	8/21/58
CALIFORNIA				
Solano	Winters	W. of Winters	--	e. 06/54
Fresno	Fresno	SW. of Fresno	--	e. 06/54
Kern	Edwards	4 mi S. of Edwards	--	e. 06/54
Sonoma	Santa Rosa	12 mi SE. of Santa Rosa	--	e. 10/54
Sonoma	Cloverdale	11.5 mi E. of Cloverdale	--	e. 10/54
Siskiyou	Ager	3 mi NE. of Ager, 3 mi SW. of Bogus School	--	e. 11/54
San Diego	Pala	2 mi E. of Pala	--	e. 12/54
Santa Barbara	Santa Maria	SW. of Santa Maria	--	e. 12/55
Sacramento	Sacramento	Sacramento	--	e. 12/55
San Bernardino	Shoshone	25 mi SW. of Shoshone	--	e. 03/56
Inyo	Tecopa	5 mi N. of Tecopa	--	e. 03/56
San Bernardino	Nipton	17 mi W. of Nipton	--	e. 03/56
Inyo	Death Valley Junction	30 mi W. of Death Valley Junction	--	e. 03/56
San Bernardino	Nipton	12 mi W. of Nipton	--	e. 03/56
Imperial	Westmorland	33 mi NW. of Westmorland	--	e. 03/56
Imperial	Westmorland	30 mi N. of Westmorland	--	e. 03/56
San Bernardino	Redlands	NE. of Redlands	--	e. 03.56
Modoc	Eagleville	4 mi S. of Eagleville	--	e. 02/57
Sacramento	Sacramento	Sacramento	--	e. 02/57
Los Angeles	Long Beach	Long Beach	--	e. 02/57
Santa Barbara	Carpinteria	Carpinteria	--	e. 02/57
Kern	Randsburg	0.5 mi E. of Randsburg	--	e. 03/57
Santa Barbara	Solvang	Center of Solvang	--	4/9/58
Santa Barbara	Santa Barbara	3 mi W. of Santa Barbara	--	4/8/58
Kern	Ridgecrest	Ridgecrest	--	3/5/58
San Bernardino	Twentynine Palms	Twentynine Palms	--	4/7/58
Sacramento	Sacramento	Sacramento	--	5/29/58
Sacramento	Sacramento	Sacrramento	--	5/29/58
Tulare	--	--	--	5/22/58
Kern	Arvin	Arvin	--	5/29/58

data for selected ground-water samples--Continued

Time (24 hour)	Water-yielding unit	Depth of well (ft)	Temp (°C)	Gross alpha; U-natural (µg/L)	Gross beta; Sr-90/Y-90 (pCi/L)	Radium-226 planchet (pCi/L)	U-natural; direct fluor. (µg/L)
--	--	--	--	--	< 7	1.8	--
--	--	--	--	--	< 7	0.8	--
--	--	--	--	--	< 7	1.1	--
--	--	--	--	--	< 23	0.6	< 0.1
--	--	--	--	--	< 7	< 0.1	< 0.1
--	--	--	--	3.7	< 17	0.3	0.4
--	--	--	--	< 3.0	< 13	0.2	0.4
--	--	--	--	< 1.0	< 7	0.5	0.1
--	--	--	--	3.1	< 7	0.3	< 0.1
--	--	--	--	< 2.0	< 8	0.2	0.1
--	--	--	--	< 4.0	< 17	0.1	0.1
--	--	--	--	< 1.0	< 13	0.3	0.2
--	--	--	--	< 2.0	< 8	0.1	1.3
--	--	--	--	13.0	< 17	1.8	6.3
--	--	--	--	< 2.0	< 8	< 0.1	0.2
--	--	--	--	--	26	1.5	0.4 ± 0.1
--	--	--	--	--	< 40	2.8	0.2 ± 0.1
--	--	--	--	--	11	< 0.1	3.1 ± 0.3
--	--	--	--	--	< 14	< 0.1	0.6
--	--	--	--	--	< 14	< 0.1	4.2
--	--	--	--	--	< 7	< 0.1	4.1
--	--	--	--	--	6	< 0.1	< 0.1
--	--	--	--	--	< 340	0.1	0.6
--	--	--	--	--	< 480	1.7	1.2
--	--	--	--	--	< 23	< 0.1	5.6
--	--	--	--	--	< 17	0.2	0.1
--	--	--	--	--	< 17	< 0.1	0.3
--	--	--	--	--	< 140	< 0.1	16.0
--	--	--	--	--	< 85	0.2	5.2
--	--	--	--	--	< 27	0.8	11.0
--	--	--	--	--	30	5.7	1.5
--	--	--	--	--	< 34	< 0.1	37.0
--	--	--	--	--	< 850	0.3	6.5
--	--	--	--	--	< 170	1.2	< 0.1
--	--	--	--	--	37	< 0.1	5.6
--	--	--	--	--	< 17	< 0.1	0.1
--	--	--	--	--	< 8	0.1	0.2
--	--	--	--	--	< 11	< 0.1	1.8
--	--	--	--	--	< 23	0.1	1.5
--	--	--	--	--	< 85	0.6	32.0
--	--	--	--	< 14.0	< 49	0.2	12.0
--	--	--	--	< 12.0	< 43	1.0	8.7
--	--	--	--	< 5.0	< 19	< 0.1	4.0
--	--	--	--	< 3.0	< 8	< 0.1	3.7
--	--	--	--	< 3.0	< 9	< 0.1	0.1 ± 0.1
--	--	--	--	< 4.0	< 12	< 0.1	0.2 ± 0.1
--	--	--	--	< 4.0	< 12	< 0.1	2.4 ± 0.2
--	--	--	--	< 7.0	< 27	< 0.1	12.0 ± 1.0

Table 1.-- *Sample-site data and radiochemical*

County	Nearest community	Location of point of collection	Owner or operator	Date sampled
CALIFORNIA (cont.)				
Inyo	Death Valley Junction	California Highway Department well, Death Valley Junction	California Division of Highways	3/15/60
Colusa	--	Bayers pumps	--	10/14/60
Inyo	Coso Junction	T. 22 S., R. 39 E., sec 4, SE1/4, Cosco Hot Springs dug well	U.S. Naval Ordinance Testing Station,China Lake	5/23/61
Fresno	Fresno	Fresno	City of Fresno	7/19/61
Santa Clara	San Jose	San Jose, composite	San Jose Water Department	7/20/61
Los Angeles	Los Angeles	Mono-Owens	City of Los Angeles	7/25/61
Sacramento	Sacramento	Sacramento, finished water	City of Sacramento	7/26/61
Los Angeles	Long Beach	Long Beach, composite of 7 wells, lab tap	City of Long Beach	1/23/62
Inyo	Death Valley Junction	T. 25 N., R. 6 E., sec. 18, NE1/4, 3 mi E. of Death Valley Junction	--	8/18/62
Inyo	Death Valley Junction	T. 27 N., R. 4 E., sec. 27, 11 mi NW. of Death Valley Junction	Mr. Mor and Mr. Van Der of Pismoe Beach, California	8/18/62
Inyo	Lida, Nevada	T. 9 S., R. 40 E., sec. 1, 24 mi S. of Lida, Nevada, springs	--	1/29/59
Inyo	Death Valley	Death Valley Park Headquarters spring	--	1/26/59
Inyo	Death Valley	T. 15 S., R. 46 E., sec. 1, SE1/4, at Keane Vander mine	--	1/29/59
Inyo	--	T. 27 N., R. 1 E., sec. 4, NW1/4, spring at mouth of Cow Creek	--	1/28/59
Inyo	Death Valley	Death Valley, springs	--	1/26/59
Inyo	--	T. 17 S., R. 46 E. sec. 5, W. side of Borax Camp	--	1/26/59
Inyo	Death Valley	T. 24 N., R. 1 E., Death Valley, Bennetts well	--	1/30/59
Inyo	Death Valley	T. 16 S., R. 46 E., sec. 6, NW1/4, McLean spring	--	1/26/59
Inyo	--	T. 28 N., R. 1 E., sec. 17, SW1/4, N. side of Borax Camp	--	1/28/59
Inyo	Death Valley Junction	Death Valley Junction	--	1/27/59
San Bernadino	Trona	T. 26 S., R. 43 E., sec. 34, NW1/4, SE. of Trona at Searles Lake	--	1/25/59
Inyo	Death Valley	T. 24 N., R. 2 E., Bad Water Spring	--	1/30/59
Inyo	--	T. 26 N., R. 5 E., sec. 5, NW1/4, Franklin well	--	1/27/59
Inyo	Death Valley	T. 27 N., R. 1 E., sec. 3, NE1/4, Cow Creek Springs	--	1/28/59
COLORADO				
Jefferson	Arvada	Well no. 42	City of Arvada	e. 06/54
Baca	Blain	Gas pump well	--	e. 06/54
Phillips	Holyoke	Holyoke	--	e. 06/54
Huerfano	Walsenburg	Walsenburg	--	e. 06/54
Logan	Fleming	Turbine well	--	e. 06/54
Huerfano	La Veta	La Veta	--	e. 06/54
Mesa	Grand Junction	Grand Junction		e. 06/55
Garfield	Glenwood Springs	Glenwood Springs	--	e. 06/55
Mesa	Grand Junction	Grand Junction	--	e. 06/55
Pitkin	Carbondale	S. of Carbondale	--	e. 06/55

data for selected ground-water samples--Continued

Time (24 hour)	Water-yielding unit	Depth of well (ft)	Temp (°C)	Gross alpha; U-natural (µg/L)	Gross beta; Sr-90/Y-90 (pCi/L)	Radium-226 planchet (pCi/L)	U-natural; direct fluor. (µg/L)
--	Alluvium	160	21	< 5.3	22 ± 3	< 0.1	6.7 ± 0.7
--	--	--	--	6.9 ± 3.3	5.1 ± 0.8	0.1 ± 0.1	0.1 ± 0.1
--	--	5	46	< 53.0	27 ± 4	0.5 ± 0.1	5.3 ± 0.5
--	--	--	--	< 6.0	12 ± 2	< 0.1	0.5 ± 0.1
--	--	--	--	< 10.0	1.9 ± 0.3	< 0.1	0.5 ± 0.1
--	--	--	--	< 6.1	5.2 ± 0.8	< 0.1	4.8 ± 0.5
--	--	--	--	< 3.9	3.1 ± 0.5	< 0.1	< 0.1
1500	--	--	--	--	3.9 ± 0.6	0.1 ± 0.1	< 0.1
--	--	27.5	19.5	< 29.0	21 ± 3	< 0.5	11.0 ± 1.0
--	Sand and gravel	300	22	< 22.0	20 ± 3	< 0.1	4.2 ± 0.4
--	Tertiary sediments and volcanic ash	--	--	< 6.7	6.5 ± 5.2	< 0.1	< 0.1
--	Tertiary and Paleozoic rocks, undivided	--	--	16.0 ± 14	28 ± 4.2	3.4 ± 0.7	1.3 ± 0.1
--	Precambrian rocks, undivided	--	--	77.0 ± 67	89 ± 17	2.3 ± 0.3	0.4 ± 0.1
--	Playa deposits and alluvium	--	--	< 29.0	150 ± 58	0.1 ± 0.1	9.3 ± 0.9
--	--	--	--	8.1 ± 5.8	24 ± 6.9	< 0.1	2.7 ± 0.3
--	Valley fill	--	--	< 110	470 ± 100	1.0 ± 0.2	3.7 ± 0.4
--	Valley fill	--	--	< 2.1	< 2.6	0.1 ± 0.1	0.7 ± 0.1
--	Alluvium	3	--	< 72.0	350 ± 58	0.3 ± 0.1	2.8 ± 0.3
--	Playa deposits	--	--	< 270	2100 ± 32	0.2 ± 0.1	13.0 ± 1.3
--	Valley fill	--	--	< 9.0	19 ± 5.2	< 0.1	4.6 ± 0.5
--	Salt deposits	--	--	< 2500	36000 ± 5400	18.0 ± 4.0	220 ± 22
--	Precambrian rocks, undivided	--	--	< 120	< 130	0.2 ± 0.1	2.8 ± 0.3
--	Valley fill	--	--	< 20.0	95 ± 13	0.1 ± 0.1	4.8 ± 0.5
--	Tertiary sediments and volcanics	--	--	< 4.8	29 ± 4	0.1 ± 0.1	3.1 ± 0.3
--	--	--	--	--	< 7.0	0.7	0.1
--	--	--	--	--	18.0	4.4	11.0
--	--	--	--	--	14.0	0.1	3.9
--	--	--	--	--	< 34.0	0.3	0.6
--	--	--	--	--	< 14.0	< 0.1	6.8
--	--	--	--	--	< 17.0	< 0.1	0.1
--	--	--	--	--	< 28.0	0.1	0.1
--	--	--	--	--	1600	26.0	0.2
--	--	--	--	--	< 17.0	0.3	0.1
--	--	--	--	--	< 110	0.1	1.6

Table 1.-- *Sample-site data and radiochemical*

County	Nearest community	Location of point of collection	Owner or operator	Date sampled
COLORADO (cont.)				
Montezuma	Towaoc	Towaoc	- -	e. 06/55
El Paso	Monument	3 mi E. of Monument	- -	e. 09/55
El Paso	Monument	5 mi SE. of Monument	- -	e. 09/55
El Paso	Monument	Monument	- -	e. 09/55
El Paso	Monument	2 mi NE. of Monument	- -	e. 09/55
El Paso	Monument	2.5 mi E. of Monument	- -	e. 09/55
Douglas	Larkspur	Larkspur	- -	e. 09/55
El Paso	Monument	1 mi E. of Monument	- -	e. 09/55
El Paso	Monument	3 mi SE. of Monument	- -	e. 09/55
Douglas	Greenland	Greenland Ranch	- -	e. 09/55
Douglas	Greenland	SE. of Greenland	- -	e. 09/55
Douglas	Greenland	E. of Greenland	- -	e. 09/55
Douglas	Greenland	SE. of Greenland	- -	e. 09/55
Douglas	- -	- -	- -	e. 09/55
Douglas	Greenland	SE. of Greenland	- -	e. 09/55
El Paso	Greenland	SE. of Greenland	- -	e. 09/55
Douglas	Greenland	SE. of Greenland	- -	e. 09/55
El Paso	Monument	NE. of Monument	- -	e. 09/55
Douglas	Greenland	SE. of Greenland	- -	e. 09/55
El Paso	Monument	Monument	- -	e. 09/55
Douglas	Greenland	SE. of Greenland	- -	e. 09/55
El Paso	Monument	N. of Monument	- -	e. 09/55
Douglas	Greenland	SE. of Greenland	- -	e. 09/55
El Paso	Monument	E. of Monument	- -	e. 09/55
El Paso	Monument	NE. of Monument	- -	e. 09/55
Douglas	Greenland	SE. of Greenland	- -	e. 09/55
Jefferson	Denver	W. of Denver	- -	e. 09/55
Jefferson	Arvada	1 mi NW. of Arvada	- -	e. 09/55
Jefferson	Star Springs	Well, Star Springs	- -	e. 09/55
Pitkin	Redstone	Redstone	- -	e. 11/55
Kit Carson	Flagler	Flagler	- -	e. 01/56
Kit Carson	Burlington	Burlington no. 2	City of Burlington	e. 01/56
Kit Carson	Stratton	Stratton	- -	e. 01/56
Jackson	Kadoka	Kadoka	City of Kadoka	e. 01/56
El Paso	Colorado Springs	10 mi N. of Colorado Springs	- -	e. 04/56
Yuma	Yuma	Yuma	- -	e. 02/57
Yuma	Wray	Wray	- -	e. 02/57
Prowers	Wiley	Wiley	Town of Wiley	e. 02/57
Douglas	Castle Rock	6 mi SW. of Castle Rock	- -	e. 06/57
El Paso	Monument	2 mi S. of Monument	- -	e. 06/57
Douglas	Greenland	7.5 mi ENE. of Greenland	- -	e. 06/57
El Paso	Greenland	6 mi SE. of Greenland	- -	e. 06/57
Jefferson	Westminster	76th Street and railroad	- -	e. 01/56
Jefferson	Westminster	Fox Hills no. 1, 76th Street and railroad	- -	e. 01/56
Adams	Thornton	Thornton	- -	e. 01/58
Adams	Thornton	Shallow well no. 3	- -	e. 01/56
Adams	Thornton	Thornton	- -	e. 01/56
Arapahoe	Denver	Well D, SE. of Denver	City of Denver	e. 01/58
Arapahoe	Littleton	Littleton, well no. 4	City of Littleton	e. 01/58
Arapahoe	Littleton	Fox Hills, well no. 1	City of Littleton	e. 01/56

data for selected ground-water samples--Continued

Time (24 hour)	Water-yielding unit	Depth of well (ft)	Temp (°C)	Gross alpha; U-natural (µg/L)	Gross beta; Sr-90/Y-90 (pCi/L)	Radium-226 planchet (pCi/L)	U-natural; direct fluor. (µg/L)
--	--	--	--	--	< 17.0	0.4	0.2
--	--	--	--	--	< 5.0	0.4	0.1
--	--	--	--	--	< 5.0	0.4	< 0.1
--	--	--	--	--	< 7.0	0.4	0.2
--	--	--	--	--	< 7.0	0.7	0.2
--	--	--	--	--	< 5.0	0.5	0.1
--	--	--	--	--	< 8.0	0.2	< 0.1
--	--	--	--	--	< 5.0	0.6	0.1
--	--	--	--	--	< 5.0	0.8	0.3
--	--	--	--	--	8.0	1.3	< 0.1
--	--	--	--	--	< 17.0	3.9	1.0
--	--	--	--	--	< 14.0	1.4	1.5
--	--	--	--	--	< 7.0	0.2	0.1
--	--	--	--	--	< 8.0	1.8	2.5
--	--	--	--	--	6.0	0.8	0.3
--	--	--	--	--	< 5.0	0.3	< 0.1
--	--	--	--	--	< 7.0	0.7	0.2
--	--	--	--	--	6.0	0.7	0.2
--	--	--	--	--	10.0	1.2	< 0.1
--	--	--	--	--	< 5.0	0.5	0.1
--	--	--	--	--	8.0	1.3	0.2
--	--	--	--	--	7.0	1.0	0.1
--	--	--	--	--	< 8.0	2.2	0.5
--	--	--	--	--	5.0	0.2	< 0.1
--	--	--	--	--	7.0	0.6	0.1
--	--	--	--	--	< 5.0	0.5	0.1
--	--	--	--	--	< 27.0	0.1	0.1
--	--	--	--	--	< 68.0	0.5	0.2
--	--	--	--	--	27.0	0.6	0.1
--	--	--	--	--	< 7.0	< 0.1	0.7
--	--	--	--	--	< 17.0	0.2	13.0
--	--	--	--	--	< 17.0	0.3	16.0
--	--	--	--	--	< 14.0	0.2	7.0
--	--	--	--	--	< 68.0	0.5	2.8
--	--	--	--	--	< 7.0	1.0	1.6
--	--	--	--	--	19.0	0.2	6.5
--	--	--	--	--	< 11.0	0.1	6.0
--	--	--	--	--	< 110	11.0	0.4
--	--	--	--	--	9.0	0.8	0.3
--	--	--	--	--	< 7.0	0.2	0.3
--	--	--	--	--	24.0	0.1	0.6
--	--	--	--	--	< 15.0	0.1	0.3
--	--	--	--	--	< 17.0	0.2	0.2
--	--	--	--	--	< 38.0	0.2	0.1
--	--	--	--	--	< 34.0	0.1	< 0.1
--	--	--	--	--	< 38.0	0.1	34.0
--	--	--	--	--	< 11.2	< 0.1	< 0.1
--	--	--	--	--	< 19.0	0.2	4.2
--	--	--	--	--	< 23.0	0.3	12.0
--	--	--	--	--	< 25.0	< 0.1	< 0.1

Table 1.-- *Sample-site data and radiochemical*

County	Nearest community	Location of point of collection	Owner or operator	Date sampled
COLORADO (cont.)				
Denver	Denver	Well E	City of Denver	e. 01/58
Jefferson	Waterton	N. of Waterton and Kassler Filter Plant	- -	e. 01/58
Douglas	Sedalia	T. 7 S., R. 67 W., sec. 6, 5 mi NE. of Sedalia	- -	e. 01/58
Douglas	Castle Rock	Castle Rock	- -	2/4/58
Douglas	Franktown	T. 8 S., R. 66 W., sec. 10	- -	2/4/58
Arapahoe	Parker	T. 5 S., R. 65 W., sec. 33 10 mi NE. of Parker	- -	2/5/58
Arapahoe	Parker	12 mi NE. of Parker	- -	e. 02/58
Douglas	Louvens	- -	- -	e. 02/58
Douglas	Castle Rock	- -	- -	e. 02/58
Baca	Pritchett	15 mi NE. of Pritchett	- -	e. 06/58
Las Animas	Kim	1.25 mi NE. of Kim	- -	e. 06/58
Baca	Pritchett	10 mi SW. of Pritchett	- -	4/2/58
Baca	Pritchett	20 mi SW. of Pritchett	- -	4/2/58
Baca	Pritchett	9 mi NW. of Pritchett	- -	4/2/58
Baca	Pritchett	11 mi S. of Pritchett	- -	4/2/58
Washington	Akron	1 mi SW. of Akron	- -	5/23/58
Washington	Otis	Otis	- -	5/23/58
Prowers	Wiley	Wiley	- -	6/6/58
Douglas	Louviers	Louviers	- -	e. 02/58
Douglas	Castle Rock	Castle Rock	- -	e. 02/58
Baca	Pritchett	15 mi NE. of Pritchett	- -	e. 06/58
Las Animas	Kim	1.25 mi NE. of Kim	- -	e. 06/58
Baca	Pritchett	10 mi SW. of Pritchett	- -	4/2/58
Baca	Pritchett	20 mi SW. of Pritchett	- -	4/2/58
Baca	Pritchett	9 mi NW. of Pritchett	- -	4/2/58
Baca	Pritchett	11 mi S. of Pritchett	- -	4/2/58
Washington	Akron	1 mi SW. of Akron	- -	4/23/58
Washington	Otis	Otis	- -	5/23/58
Prowers	Wiley	Wiley	- -	6/6/58
San Juan	Silverton	Opening of caved-in Yukon mine, 3 mi W. of Silverton	- -	10/25/59
La Plata	Trimble	Spigot at Trimble Springs	William M. Burcell, Durango	10/25/59
Archuleta	- -	Quintana Canyon Spring pipe	Jicarilla Apache	10/21/59
Archuleta	- -	Butcher Spring	U.S. Forest Service	10/21/59
La Plata	Red Mesa	T. 33 N., R. 11 W., sec. 8, SW1/4, pool over spring, Iron Springs Gulch, 5 mi E. of Red Mesa	Ute Indians	10/24/59
La Plata	Trimble	Pikerton Springs, 4 mi N. of Trimble Springs	H. J. Zeigler	10/26/59
Hinsdale	Pagosa Springs	T. 38 N., R. 3 W., sec. 32, NW1/4, 40 mi N. of Pagosa Springs	- -	10/21/59
La Plata	Red Mesa	Soda Springs, T. 32 N., R. 12 W., sec. 1, SE1/4, 6 mi SE. of Red Mesa	- -	10/24/59
Prowers	Wiley	Wiley	- -	6/6/58
Baca	Buckeye	Buckeye	- -	6/5/58
Prowers	Granada	Granada	- -	6/6/58
Arapahoe	Englewood	Englewood	- -	7/31/58
Montezuma	Towaoc	1 mi SW. of Towaoc	- -	7/18/58

data for selected ground-water samples--Continued

Time (24 hour)	Water-yielding unit	Depth of well (ft)	Temp (°C)	Gross alpha; U-natural (µg/L)	Gross beta; Sr-90/Y-90 (pCi/L)	Radium-226 planchet (pCi/L)	U-natural; direct fluor. (µg/L)
--	--	--	--	--	< 19.0	0.2	7.4
					22.0	0.2	2.4
--	--	--	--	--	21.0	24.0	1.1 ± 0.1
--	--	--	--	--	< 11.0	1.0	0.8 ± 0.1
--	--	--	--	--	< 8.0	0.4	0.5 ± 0.1
930	--	--	--	--	< 8.0	0.2	0.1 ± 0.1
--	--	--	--	--	< 25.0	0.4	1.0
--	--	--	--	8.2	< 13.0	2.3	2.3
--	--	--	--	3.7	10.0	0.6	0.4
--	--	--	--	41	69.0	8.4	0.6
--	--	--	--	16	< 48.0	1.9	< 0.1
--	--	--	--	27	14.0	5.3	7.2
--	--	--	--	5.8	< 17.0	1.5	12.0
--	--	--	--	< 7	26.0	0.7	5.5
--	--	--	--	23	27.0	3.3	10.0
--	--	--	--	14	< 19.0	0.3	14.0
--	--	--	--	< 4	< 10.0	0.2	4.4
--	--	--	--	130	< 84.0	14.0	0.6 ± 0.1
--	--	--	--	8.2	< 13.0	2.3	2.3
--	--	--	--	3.7	10.0	0.6	0.4
--	--	--	--	41	69.0	8.4	0.6
--	--	--	--	16	< 48.0	1.9	< 0.1
--	--	--	--	27	14.0	5.3	7.2
--	--	--	--	5.8	< 17.0	1.5	12.0
--	--	--	--	< 7	26.0	0.7	5.5
--	--	--	--	23	27.0	3.3	10.0
--	--	--	--	14	< 19.0	0.3	14.0
--	--	--	--	< 4	< 10.0	0.2	4.4
--	--	--	--	130	< 84.0	14.0	0.6 ± 0.1
--	Silicic volcanic rocks	--	15	7.3 ± 6.1	22 ± 6	0.2 ± 0.1	0.3 ± 0.1
--	Precambrian	4	40	45 ± 31	120 ± 20	6.2 ± 1.2	0.6 ± 0.1
--	--	--	8	< 2.2	4.8 ± 2.1	3.0 ± 0.6	0.4 ± 0.1
--	--	--	9.5	3.6 ± 2.1	8.9 ± 1.3	0.1 ± 0.1	< 0.1
--	--	--	13.5	< 53	150 ± 50	1.4 ± 0.3	24 ± 2
--	--	--	33	120 ± 70	220 ± 30	28.0 ± 6.0	2.4 ± 0.2
--	--	3	6.5	< 1.1	5.1 ± 1.6	< 0.1	0.9 ± 0.1
--	--	--	15.5	< 27	34 ± 19	3.6 ± 0.7	0.2 ± 0.1
--	--	--	--	27	< 108	6.6	0.7 ± 0.1
--	--	--	--	13	27.0	2.8	12 ± 1
--	--	--	--	10	32.0	2.4	0.3 ± 0.1
--	--	--	--	--	< 37.0	0.1	< 0.1
--	--	--	--	--	< 40.0	0.7	3.0 ± 0.3

Table 1.-- *Sample-site data and radiochemical*

County	Nearest community	Location of point of collection	Owner or operator	Date sampled
COLORADO (cont.)				
Prowers	Lamar	Lamar	--	e. 10/58
Prowers	Holly	Holly	--	10/2/58
Eagle	Burns	7 mi NE. of Burns	--	10/18/58
Douglas	Sedalia	T. 7 S., R. 67 W., sec. 3, NE1/4,	--	10/5/59
Douglas	Sedalia	5 mi NE. of Sedalia	--	10/13/59
Archuleta	Pagosa Springs	T. 35 N., R. 2 W., sec. 13, SW1/4, Conoco Well	Auboy Fowler	10/22/59
La Plata	Ignacio	Ignacio	El Paso Natural Gas Co.	10/26/59
Archuleta	Chromo	T. 32 N., R. 1 E., sec. 2, SW1/4, 2 mi E. of Chromo	Irwin Crowley, Chromo	10/22/59
La Plata	--	T. 36 N., R. 11 W., Copper Age Mine	Bear Creek Mining Company, Denver	10/20/59
Archuleta	Pagosa Springs	T. 35 N., R. 1 W., sec 18, SE1/4, 1 mi SE. of Pagosa Springs	Sean Mantray	10/22/59
La Plata	Bondad	Bondad	Forest Flora, Bondad	10/25/59
Adams	Derby	T. 2 N., R. 67 E., sec. 26, NW1/4, 2.5 mi N. of Derby	--	12/16/59
Douglas	Sedalia	T. 6 S., R. 67 W., sec. 27, SW1/4, 5 mi NE. of Sedalia	Vic Ramer	12/18/60
Bent	Las Animas	T. 23 S., R. 52 W., sec. 10, SE1/4 NE1/4	City of Las Animas	2/27/60
Larimer	Wellington	T. 10 N., R. 69 W., sec. 23, SE1/4, 8 mi NW. of Wellington	Buckeye Land and Livestock, Eaton	3/22/60
Boulder	Marshall	Marshall	--	5/20/60
La Plata	Bayfield	T. 36 N., R. 6 W., sec. 16, Graham Creek Campground Spring, 10 mi. N. of Bayfield	U.S. Forest Service	10/26/59
Mineral	Pagosa Springs	Spring, T. 37 N., R. 1 W., sec. 36, NE1/4, 10 mi NE. of Pagosa Springs	Frank Teal, Pagosa Springs	10/26/59
Jefferson	Conifer	2 mi NW. of Conifer	W. E. Gallan, Morrison	7/19/60
Jefferson	Denver	T. 4 S., R. 70 W., sec. 23, SE1/4, W. of Denver, N. of Morrison	Alex Rooney, Golden	7/22/60
Jefferson	Denver	T. 5 S., R. 69 W., sec. 18, SE1/4, SW. of Denver	--	7/26/60
Crowley	Crowley	T. 21 S., R. 58 W., sec. 26, NE1/4	--	8/3/60
Otero	Cheraw	T. 22 S., R. 55 W., sec. 25, NE1/4	--	8/3/60
Otero	Manzanola	T. 22 S., R. 58 W., sec. 26, NW1/4	--	8/3/60
Otero	Swink	T. 23 S., R. 56 W., sec. 25, SW1/4	--	8/5/60
Weld	Greeley	T. 5 N., R. 61 W., sec. 11, NE1/4, ESE. of Barnesville, NE. of Greeley	Jack B. Bain, Ft. Morgan	8/12/60
Boulder	Boulder	T. 1 N., R. 71 W., sec. 24, NE1/4	Jacob L. Dickens, Boulder	8/12/60
Jefferson	Golden	Golden water supply from Squaw Mountain	--	e. 10/60
Jefferson	--	Mt. Vernon Country Club, well water	--	e. 11/60
El Paso	Fountain	Well on school property	--	10/4/60
Weld	Grover	T. 10 N., R. 61 W., sec. 5, NE1/4	--	10/7/60

data for selected ground-water samples--Continued

Time (24 hour)	Water-yielding unit	Depth of well (ft)	Temp (°C)	Gross alpha; U-natural (µg/L)	Gross beta; Sr-90/Y-90 (pCi/L)	Radium-226 planchet (pCi/L)	U-natural; direct fluor. (µg/L)
--	--	--	--	--	29.0	3.1	0.6 ± 0.1
--	--	--	--	--	< 18.0	0.8	1.5 ± 0.2
--	--	--	--	--	88.0	< 0.1	0.5 ± 0.1
--	Dawson Arkose	801	--	37 ± 19	64 ± 10	23 ± 5	0.9 ± 0.1
--	--	--	--	5.4 ± 2.9	14.0 ± 2	1.3 ± 0.3	0.2 ± 0.1
--	Dakota Sandstone	301	60	80 ± 35	130 ± 20	6.3 ± 1.2	0.5 ± 0.1
--	--	130	11.5	4.1 ± 1.9	8.8 ± 2.8	0.3 ± 0.1	< 0.1
--	--	--	20.5	< 4.7	35 ± 5	0.2 ± 0.1	< 0.1
--	--	1700	--	73 ± 38	62 ± 9	7.2 ± 1.4	11 ± 1
--	Mancos Shale	70	8	6.6 ± 4.7	17 ± 4	1.2 ± 0.2	24 ± 2
--	Sandstone	30	15.5	< 3.9	18 ± 4	0.2 ± 0.1	17 ± 2
--	--	--	--	< 57	73 ± 11	0.2 ± 0.1	2.1 ± 0.2
--	--	--	--	3.7 ± 2.6	9.3 ± 1.4	0.3 ± 0.1	0.6 ± 0.1
--	Cheyenne Sandstone Member of Purgatoire Formation	--	--	13 ± 9	31 ± 5	0.5 ± 0.1	0.2 ± 0.1
1900	Hygiene Sandstone Member of Pierre Shale	1600	13.5	27 ± 17	43 ± 9	8.6 ± 1.7	0.9 ± 0.1
--	--	--	--	< 1.8	8.6 ± 1.3	0.1 ± 0.1	0.1 ± 0.1
--	--	--	8	< 3	3.8 ± 2.9	0.2 ± 0.1	3.7 ± 0.4
--	Silicic volcanic rocks	--	--	< 0.9	2.9 ± 2.4	2.0 ± 0.4	0.1 ± 0.1
--	--	183	--	54 ± 24	33 ± 5	0 ± 0	52 ± 5
--	Dakota Sandstone	275	14	7.2 ± 4	9.1 ± 1.4	2.0 ± 0.4	< 0.1
--	Dakota Sandstone	360	11.5	< 1	5.2 ± 0.8	1.5 ± 0.3	< 0.1
--	Cheyenne Sandstone and Dakota Sandstone	1432	24	32 ± 20	30 ± 4	2.6 ± 0.5	0.1 ± 0.1
--	Cheyenne Sandstone	850	23.5	12 ± 7	26 ± 4	4.1 ± 0.8	< 0.1
--	Cheyenne Sandstone and Dakota Sandstone	1365	28	27 ± 14	24 ± 4	5.3 ± 1.1	< 0.1
--	Cheyenne Sandstone and Dakota Sandstone	769	21.5	7.9 ± 6.7	13 ± 2	2.3 ± 0.5	0.2 ± 0.1
--	Hygiene Sandstone Member of Pierre Shale	1500	18	< 11	12 ± 2	0.3 ± 0.1	0.3 ± 0.1
--	Hygiene Sandstone Member of Pierre Shale	100	13.5	< 1.3	3.5 ± 0.5	0.2 ± 0.1	0.4 ± 0.1
--	--	--	--	< 0.1	4.0 ± 0.6	--	--
--	--	--	--	< 0.7	6.1 ± 0.9	--	--
--	--	--	11.5	5.9 ± 3.5	14 ± 2	0.2 ± 0.1	7.4 ± 0.7
--	--	220	--	< 1.9	7.3 ± 1.1	< 0.1	0.6 ± 0.1

Table 1.-- *Sample-site data and radiochemical*

County	Nearest community	Location of point of collection	Owner or operator	Date sampled
COLORADO (cont.)				
Weld	New Raymer	New Raymer	--	10/7/60
Montrose	Uravan	Uravan city well	City of Uravan	10/10/60
Costilla	Jaroso	Jaroso Elementary School	School District	10/19/60
El Paso	Woodland Park	Infiltration gallery	--	10/4/60
Baca	Springfield	T. 30 N., R. 46 E., sec. 30, SE1/4	--	11/23/60
Otero	La Junta	T. 24 S., R. 55 W., sec. 1, NW1/4, NE. of La Junta	City of La Junta	12/14/60
Bent	Las Animas	T. 23 N., R. 52 E., sec. 10, NW1/4	City of Las Animas	12/113/60
Boulder	Eldorado Springs	T. 1 S., R. 71 W., sec. 25, SE1/4, spring overflow pipe	Jack W. Fowler	4/9/60
Fremont	Canon City	T. 17 S., R. 73 W., sec. 3, NW1/4, 25 mi NW. of Canon City, Taylor Soda Spring	Frank Christopher	9/15/60
Ouray	Ouray	Ouray city spring	City of Ouray	10/10/60
Park	Fairplay	T. 9 S., R. 77 W., sec. 28, SW1/2, spring	Town of Fairplay	2/14/61
Delta	Orchard City	T. 14 S., R. 95 W., sec. 35, spring	Orchard City	2/15/61
Gilpin	Blackhawk	T. 2 N., R. 72 E., sec. 31, NE1/4 SE1/4 SW1/4, spring	Town of Blackhawk	3/11/61
Montrose	Nucla	T. 48 N., R. 15 W., 7 mi N. of Nucla	--	9/24/62
Dolores	Dunton	Dunton Hot Springs	E. B. Roscio, Dolores	10/28/62
Dolores	Dolores	1 mi up Geyser pack trail, Geyser Spring	--	10/26/62
Dolores	Dunton	300 ft W. of Hotel at spring orifice	E. B. Roscio, Dolores	10/27/62
Routt	Steamboat Springs	T. 5 N., R. 82 W., sec. 16, NW1/4 SE1/4SE1/4, 15 mi SE. of Steamboat Springs at orifice	--	7/25/63
Boulder	Boulder	3 mi W. of Boulder, Soda Springs	--	10/15/63
Pueblo	Pueblo	T. 20 S., R. 67 W., sec. 15, W. of Pueblo	City of Pueblo	12/12/60
Lincoln	Limon	T. 9 S., R. 56 W., sec. 18, SW1/4	Town of Limon	1/28/61
Montezuma	Pleasant View	T. 39 N., R. 17 W., sec 31, SW1/4 SE1/4, Pleasant View School	--	2/6/61
Alamosa	Alamosa	T. 37 N., R. 10 E., sec. 11, SW1/4, well No. 2	City of Alamosa	2/14/61
Moffat	Maybell	T. 7 N., R. 95 W., sec. 32, NE1/4, from tap in cafe	A. Kalbrein, Maybell	2/16/61
Pitkin	Aspen	T. 10 S., R. 84 W., sec. 18, NW1/4	City of Aspen	2/16/61
Jackson	Walden	T. 9 N., R. 79 W., sec. 21, SW1/4	City of Walden	2/17/61
Moffat	Artesia	T. 3 N., R. 103 W., sec. 6, SE1/4, composite of 3 wells	Town of Artesia	2/16/61
Gunnison	Gunnison	T. 50 N., R. 1 W., sec. 35, SE1/4	City of Gunnison	2/15/61
Jackson	Rand	T. 6 N., R. 78 W., sec 30, SW1/4	Rand School District No. 5	2/17/61
Otero	La Junta	T. 27 S., R. 54 W., sec. 34, SW1/4, S. of La Junta	Lou Gallagher La Junta	4/4/61
Pueblo	Pueblo	T. 21 S., R. 65 W., sec. 1, NE1/4	Clark's Mineral Water Company	6/21/61

data for selected ground-water samples--Continued

Time (24 hour)	Water-yielding unit	Depth of well (ft)	Temp (°C)	Gross alpha; U-natural (µg/L)	Gross beta; Sr-90/Y-90 (pCi/L)	Radium-226 planchet (pCi/L)	U-natural; direct fluor. (µg/L)
--	--	--	--	< 10	< 11.0	0.4 ± 0.1	0.7 ± 0.1
--	Kayenta Formation	--	--	9.7 ± 5.6	26 ± 4	0.4 ± 0.1	12 ± 1
--	Alamosa Formation	--	12	2.1 ± 1.2	3.5 ± 0.6	0.5 ± 0.1	1.6 ± 0.2
--	Granite and alluvium	--	9.5	0.7 ± 0.5	2.6 ± 0.4	0.1 ± 0.1	0.1 ± 0.1
--	Dakota Sandstone	--	15.5	7.8 ± 4.0	13 ± 2	2.0 ± 0.4	4.6 ± 0.5
--	Terrace gravels	40	15	26 ± 12	36 ± 5	0.1 ± 0.1	2.1 ± 2.0
--	Arkansas River	30	15	14 ± 7	39 ± 6	6.7 ± 1.3	0.4 ± 0.1
--	--	--	24.5	8.8 ± 5.5	10 ± 2	0.2 ± 0.1	2.0 ± 0.2
--	--	--	14	990 ± 510	1200 ± 200	460 ± 90	960 ± 100
--	San Juan Silica	--	5	1.4 ± 1.2	1.9 ± 0.3	< 0.1	0.1 ± 0.1
--	Alluvium of Beaver Creek	--	1.5	10 ± 8	6.2 ± 0.9	< 0.1	5.7 ± 0.5
--	--	--	4.5	< 1.9	4.7 ± 0.7	< 0.1	< 0.1
--	Precambrian granite gneiss	--	4.5	< 2.6	3.4 ± 0.5	0.1 ± 0.1	0.2 ± 0.1
--	Entrada Sandstone	--	15.5	--	220 ± 30	3.7 ± 0.7	< 0.4
930	--	--	43.5	--	24 + 4	1.5 ± 0.3	< 0.4
1030	--	--	28	--	34 ± 5	3.3 ± 0.7	0.4 ± 0.4
1630	--	--	13	--	4.0 ± 0.6	< 0.1	< 0.4
--	--	--	4.5	--	9.5 ± 1.4	1.6 ± 0.3	0.5 ± 0.4
--	Plutonic rocks	--	14.5	--	100 ± 20	1.3 ± 0.3	29 ± 3
--	Dakota Sandstone and Cheyenne Sandstone	500	18	26 ± 13	120 ± 20	17 ± 3	1.6 ± 0.2
--	Valley alluvium	30	13	< 6.1	16 ± 2	0.1 ± 0.1	11 ± 1
--	Junction Creek Sandstone	1000	15.5	12 ± 7	24 ± 4	0.4 ± 0.1	11 ± 1
--	Alamosa Formation	1500	26	< 0.8	6.3 ± 1.0	< 0.1	0.5 ± 0.1
--	Browns Park Formation	60	--	< 7.7	6.5 ± 1.0	< 0.1	0.4 ± 0.1
--	Alluvium and terrace deposits	159	9.5	6.8 ± 4.8	10 ± 2	0.3	16 ± 2
--	Michigan Creek Alluvium	29	--	< 8.6	8.9 ± 1.3	< 0.1	6.2 ± 0.6
--	Entrada Sandstone	1000	--	< 11	2.4 ± 0.4	0.2 ± 0.1	0.5 ± 0.1
--	Quaternary alluvium	65	7	< 8	2.3 ± 0.3	0.1 ± 0.1	1.7 ± 0.2
--	Coalmont Formation	149	--	< 7	4.6 ± 0.7	0.6 ± 0.1	3.4 ± 0.3
--	Morrison Formation	100	--	< 46	30 ± 5	1.3 ± 0.3	16 ± 2
--	Fountain Formation	1425	26	100 ± 60	79 ± 12	11 ± 2	< 0.1

Table 1.-- *Sample-site data and radiochemical*

County	Nearest community	Location of point of collection	Owner or operator	Date sampled
COLORADO (cont.)				
Pueblo	Undercliffe	T. 23 S., R. 63 W., sec. 21, SW1/4	Union Land and Gauging Co. Avondale	6/23/61
Pueblo	Pueblo	T. 21 S., R. 65 W., sec. 16, NE1/4, SW. edge of Pueblo	Chet Haga, La Vista Hills	6/22/61
Clear Creek	Bergen Park	T. 4 S., R. 72 W., sec. 14, SE1/4, 3 mi W. of Bergen Park	J. O. Johnson	6/23/61
Bent	Las Animas	T. 23 S., R. 52 W., sec. 16, SW1/4,SW1/4	U.S. Geological Survey	7/18/61
Bent	Las Animas	T. 23 S., R. 52 W., sec. 16, SW1/4, SW. of Las Animas	U.S. Geological Survey	7/31/61
Montezuma	Mancos	T. 36 N., R. 14 W., sec. 29, SE1/4, 7 mi W. of Mancos	Mesa Verde Enterprises, Mancos	7/18/61
Bent	Las Animas	T. 23 S., R. 52 W., sec. 10, NW1/4	City of Las Animas	7/25/61
Mineral	Wagon Wheel Gap	T. 40 N., R. 1 E., sec. 2, NE1/4, 9 mi SE. of Creede, pool over Wagon Wheel Gap Spring	Allen R. Phipps, Denver	11/4/61
Bent	Las Animas	T. 23 S., R. 53 W., sec. 16, SW1/4, near SW. Las Animas	U.S. Geological Survey	7/18/61
Bent	Las Animas	T. 23 S., R. 52 W., sec. 3, SE1/4	Wayne Nelson Las Animas	7/27/61
Bent	Las Animas	T. 23 S., R. 52 W., sec. 16, SW1/4	U.S. Geological Survey Ground Water Branch	8/1/61
Prowers	Lamar	Lamar	- -	e. 10/61
Bent	Las Animas	T. 23 S., R. 52 W., sec. 16, SW1/4, SW1/4	U.S. Geological Survey	8/18/61
Denver	Denver	Moffat Filter Plant	- -	8/28/61
Bent	Ninaview	T. 27 S., R. 52 W., sec 22, SW1/4, Dry Ice Plant	Emerald Oil and Carbonic Company	8/21/61
Clear Creek	Bergen Park	T. 4 S., R. 72 W., sec. 14, SE1/4, 3 mi W. of Bergen Park	J. O. Johnson	10/22/61
Bent	Las Animas	2 .5 mi W. of Las Animas	Kerls Wagner	11/1/61
Otero	Timpas	12 mi SSW. of Timpas	Pete Aquerre	12/5/61
Jefferson	- -	Rocky Mountain Arsenal waste disposal well	- -	11/27/61
Arapahoe	Deer Trail	T. 4 S., R. 59 W., sec. 31, NE1/4	U.S. Air Force	2/13/62
Arapahoe	Deer Trail	T. 4 S., R. 59 W., sec. 31, NE1/4	U.S. Air Force	2/13/62
Elbert	Elizabeth	T. 8 S., R. 64 W., sec. 33, NW1/4	U.S. Air Force	2/13/62
Elbert	Elizabeth	T. 8 S., R. 64 W., sec. 33, NW1/4	U.S. Air Force	2/13/62
Arapahoe	- -	T. 5 S., R. 64 W., sec. 36, NE1/4, missile site	U.S. Air Force	2/12/62
Arapahoe	- -	T. 5 S., R. 63 W., sec. 29, NE1/4, missile site	U.S. Air Force	2/12/62
Arapahoe	- -	T. 5 S., R. 63 W., sec. 29, NE1/4, missile site	U.S. Air Force	2/12/62
Arapahoe	- -	T. 5 S., R. 65 W., sec. 5, N1/2, missile site	U.S. Air Force	2/12/62
Arapahoe	- -	T. 5 S., R. 65 W., sec. 5, NW1/4, missile site	U.S. Air Force	2/12/62
Arapahoe	- -	T. 5 S., R. 64 W., sec. 20, NW1/4, missile site	U.S. Air Force	2/12/62

data for selected ground-water samples--Continued

Time (24 hour)	Water-yielding unit	Depth of well (ft)	Temp (°C)	Gross alpha; U-natural (µg/L)	Gross beta; Sr-90/Y-90 (pCi/L)	Radium-226 planchet (pCi/L)	U-natural; direct fluor. (µg/L)
--	Dakota Sandstone and Cheyenne Sandstone	234	19	130 ± 80	72 ± 11	17 ± 3	1.3 ± 0.1
--	Dakota Sandstone	500	20	330 ± 170	150 ± 20	31 ± 6	0.1 ± 0.1
--	Precambrian rocks, undivided	32	--	--	12 ± 2	< 0.1	1.0 ± 0.1
--	Triassic sandstone rocks, undivided	1014	24	< 13	4.1 ± 0.6	0.3 ± 0.1	17 ± 2
--	Cheyenne Sandstone	395	18.5	< 27	18 ± 3	3.1 ± 0.6	0.2 ± 0.1
--	Junction Creek Sandstone	1370	10	78 ± 33	38 ± 6	9.8 ± 1.5	0.8 ± 0.1
--	Dakota Sandstone and Cheyenne Sandstone	314	16.5	< 44	12 ± 2	1.2 ± 0.2	0.1 ± 0.1
--	--	--	--	--	36 ± 5	4.9 ± 1.0	< 0.4
--	--	1014	24	< 14	4.5 ± 0.7	0.5 ± 0.1	13 ± 1
--	Arkansas River Alluvium	--	18.5	< 80	28 ± 4	< 0.1	40 ± 4
--	Morrison Formation and Entrada Sandstone	1014	19	< 140	29 ± 4	1.2 ± 0.2	5.3 ± 0.5
--	--	--	--	< 19	7.4 ± 1.1	0.1 ± 0.1	7.5 ± 0.7
--	Dakota Sandstone	1014	18.5	< 29	18 ± 3	2.9 ± 0.6	0.1 ± 0.1
--	--	--	--	< 1.7	3.3 ± 0.5	< 0.1	0.2 ± 0.1
--	--	170	16	--	23 ± 4	1.6 ± 0.3	14 ± 2
--	Precambrian rocks, undivided	74	--	--	5.6 ± 0.8	< 0.1	0.4 ± 0.1
--	--	185	16	--	13 ± 2	0.2 ± 0.1	0.1 ± 0.1
--	Dakota Sandstone	300	--	--	110 ± 20	7.1 ± 1.4	< 0.1
--	Precambrian gneiss	11975	126.5	< 1200	1700 ± 300	840 ± 160	0.3 ± 0.1
--	--	506	15.5	--	2.4 ± 0.4	0.1 ± 0.1	< 0.1
--	Basal Laramie Formation and Fox Hills Sandstone	515	15	--	6.0 ± 0.9	0.2 ± 0.1	< 0.1
--	Dawson Arkose	1562	18.5	--	14 ± 2	8.3 ± 1.7	3.8 ± 0.4
--	Dawson Arkose	1532	18.5	--	4.5 ± 0.7	0.3 ± 0.1	0.3 ± 0.1
--	Fox Hills Sandstone	1880	29	--	3.0 ± 0.4	0.2 ± 0.1	0.2 ± 0.1
--	Dawson Arkose and Fox Hills Sandstone	1804	17	--	4.8 ± 0.7	0.5 ± 0.1	0.4 ± 0.1
--	Dawson Arkose and Fox Hills Sandstone	1804	23	--	4.9 ± 0.7	0.2 ± 0.1	0.3 ± 0.1
--	Dawson Arkose	2101	26.5	--	4.6 ± 0.7	0.3 ± 0.1	< 0.1
--	Fox Hills Sandstone	1574	25	--	3.8 ± 0.6	0.2 ± 0.1	< 0.1
--	Dawson Arkose and Fox Hills Sandstone	2084	22	--	11 ± 2	0.3 ± 0.1	< 0.1

Table 1.-- *Sample-site data and radiochemical*

County	Nearest community	Location of point of collection	Owner or operator	Date sampled
COLORADO (cont.)				
Arapahoe	- -	T. 5 S., R. 64 W., sec. 20, NW1/4 missile site	U.S. Air Force	e. 02/62
Park	Guffey	T. 1 S., R. 73 W., sec. 23, NE1/4, 0.9 mi S. of Guffey, 150 ft W. of road, Yellow Soda Spring	George Wesh	6/28/61
Elbert	Elizabeth	T. 8 S., R. 65 W., sec. 10 SW1/4, ranch house 3 mi W. of Elizabeth	Sun Appabosas Rocky Cliff Ranch	3/22/64
Prowers	Hartman	T. 22 S., R. 43 W., sec. 27, NW1/4 NW1/4SW1/4, 1.5 mi W. and 0.5 mi S. of Hartman, composite of 3 wells	Siclebawer	8/16/64
Prowers	Granada	T. 23 S., R. 43 W., sec. 4, SE1/4,SE1/4 SE1/4, 3 mi E. of Granada, at pump	Marvin Willhite	8/7/64
Prowers	Lamar	T. 22 S., R. 45 W., sec. 30, SW1/4 SW1/4NW1/4, 5 mi E. of Lamar	Richard H. Nevius	8/5/64
Prowers	Bristol	T. 22 S., R. 43 W., sec. 9, SE1/4 SW1/4SE1/4, 3 mi NE. of Briston, composite of 4 wells	J. T. Reedy	8/6/64
Prowers	Holly	T. 23 S., R. 41 W., sec. 29, NW1/4 NW1/4SW1/4, 3 mi SE. of Holly	M. C. McCormick, Holly	8/3/64
Prowers	Holly	T. 23 S., R. 42 W., sec. 32, NW1/4 SE1/4SW1/4, 4 mi SW. of Holly	Joe Dorenkamp, Holly	8/13/64
Prowers	Holly	T. 22 S., R. 42 W., sec. 33, NE1/4 NW1/4NE1/4, 3 mi N. of Holly, pump	J. C. Romer, Holly	8/4/64
Prowers	Granada	T. 22 S., R. 44 W., sec. 32, NE1/4 SE1/4SW1/4, 4 mi NW. of Granada	X-Y Ranch, Granada	8/12/64
Prowers	Lamar	T. 22 S., R. 45 W., sec. 23, NW1/4 NW1/4NW1/4, 9 mi NE. of Lamar	Wilger Brothers, Bristol	8/9/64
Prowers	Lamar	T. 22 S., R. 46 W., sec. 11, SE1/4 SE1/4SW1/4, 4 mi NE. of Lamar	J. L. Touchstone, Dimmit, Texas	8/4/64
Prowers	Granada	T. 22 S., R. 44 W., sec. 35., SE1/4 SW1/4SW1/4, 1 mi NW. of Granada	John E. Schlager, Granada	8/6/64
Prowers	Lamar	T. 22 S., R. 46 W., sec 30, NW1/4 SW1/4SE1/4, 1 mi N. of Lamar	A. H. Filkins	8/4/64
Prowers	Lamar	T. 22 S., R. 46 W., sec. 16, NE1/4 NE1/4NW1/4, 3 mi NE. of Lamar	K. C. Lamle, Lamar	6/4/64
Prowers	Wiley	T. 22 S., R. 47 W., sec. 6, NE1/4 NE1/4NE1/4, 1 mi NW. of Wiley, composite of 3 wells	Don and Elizabeth Ullam, Wiley	8/4/64
Prowers	Lamar	T. 22 S., R. 46 W., sec. 26, NW1/4 NE1/4NW1/4, 3 mi NE. of Lamar	C. L. Wetter	8/4/64
Prowers	Lamar	T. 22 S., R. 46 W., sec. 2, NE1/4 NE1/4, 6 mi NE. of Lamar, composite of 2 wells	D. J. Ellenberger, Lamar	8/4/64
Prowers	Lamar	T. 22 S., R. 47 W., sec. 27, NE1/4 NW1/4NW1/4, 2.5 mi NW. of Lamar	Joe Oliver, Lamar	8/4/64
Prowers	Lamar	T. 22 S., R. 47 W., sec. 30, SW1/4 SE1/4, 6 mi W. of Lamar	Hinton Hunter, Lamar	8/4/64
Prowers	Lamar	T. 22 S., R. 47 W., sec. 27, SE1/4 SE1/4NW1/4, 2 mi W. of Lamar	James Hanagan, Lamar	8/4/64
Prowers	Lamar	T. 22 S., R. 47 W., sec. 21, SE1/4 SW1/4SW1/4, 3.5 mi NW. of Lamar	W. A. Dillon, Lamar	8/4/64

data for selected ground-water samples--Continued

Time (24 hour)	Water-yielding unit	Depth of well (ft)	Temp (°C)	Gross alpha; U-natural (µg/L)	Gross beta; Sr-90/Y-90 (pCi/L)	Radium-226 planchet (pCi/L)	U-natural; direct fluor. (µg/L)
--	Dawson Arkose and Fox Hills Sandstone	2082	15.5	--	8.4 ± 1.3	0.2 ± 0.1	0.1 ± 0.1
--	Precambrian gneiss-schist	4	11.5	< 1230	150 ± 20	21 ± 4	44 ± 4
--	Dawson Arkose	3	13	--	4.1 ± 0.4	0.4 ± 0.1	2.9 ± 0.4
--	Quaternary valley fill	67.4	15	--	--	--	82 ± 8
--	Quaternary valley fill	82	13.5	--	--	--	42 ± 4
1810	Quaternary valley fill	49	14	--	--	--	41 ± 4
--	Quaternary valley fill	49	16.5	--	--	--	64 ± 6
--	Quaternary valley fill	33	18	--	--	--	12 ± 1
	Quaternary valley fill	90	15.5	--	--	--	19 ± 2
--	Quaternary valley fill	124	15.5	--	--	--	54 ± 5
--	Quaternary valley fill	--	15.5	--	--	--	29 ± 3
--	Quaternary valley fill	109	15.5	--	--	--	37 ± 4
1850	--	135	14	--	--	--	110 ± 10
1800	Quaternary valley fill	64	14	--	--	--	30 ± 3
1630	--	42	13.5	--	--	--	110 ± 10
1730	Quaternary valley fill	111	14	--	--	--	130 ± 13
--	Quaternary valley fill	33-35	16	--	--	--	84 ± 8
1930	Quaternary valley fill	57	--	--	--	--	110 ± 10
1820	Quaternary valley fill	60	14.5	--	--	--	75 ± 8
1500	Quaternary valley fill	47	--	--	--	--	110 ± 10
1850	Quaternary valley fill	40	--	--	--	--	100 ± 10
1515	--	35	--	--	--	--	120 ± 10
1850	Quaternary valley fill	34	--	--	--	--	120 ± 10

Table 1.-- *Sample-site data and radiochemical*

County	Nearest community	Location of point of collection	Owner or operator	Date sampled
COLORADO (cont.)				
Prowers	Lamar	T. 22 S., R. 45 W., sec. 18, SE1/4 NW1/4NW1/4, 5 mi NE. of Lamar	Harry C. Nevius, Lamar	8/5/64
Prowers	Wiley	T. 22 S., R. 47 W., sec. 17, SW1/4, 1 mi S. of Wiley	Thomas E. Jagers, Wiley	8/4/64
Bent	Wiley	T. 21 S., R. 48 W., sec. 24, SE1/4 NW1/4, 3.5 mi NW. of Wiley	Robert Tempel, Wiley	8/4/64
Prowers	Granada	T. 23 S., R. 43 W., sec. 6, SW1/4 NW1/4SW1/4, N. of Granada	X-M Ranch, Granada	8/19/64
Pueblo	Pueblo	T. 20 S., R. 62 W., sec. 22, SW1/4 SE1/4NE1/4, Pueblo Army Depot	U.S. Army	8/19/64
Pueblo	Boone	T. 21 S., R. 61 W., sec. 17, NE1/4 NW1/4SW1/4, Boone	- -	8/19/64
Pueblo	Boone	T. 21 S., R. 61 W., sec. 24, SW1/4 SE1/4SE1/2, SE. of Boone	- -	8/19/64
Prowers	Granada	T. 22 S., R. 44 W., sec. 21, SE1/4 SE1/4NE1/4, NW. of Granada	Jess Rink, Bristol	8/19/64
Prowers	- -	T. 22 S., R. 45 W., sec. 10, 11, 3, composite of 5 wells	Leabert Brazell, Lamar	8/19/64
Prowers	Lamar	T. 23 S., R. 46 W., sec. 3, SW1/4 NE1/4SE1/4, S. of Lamar	City of Lamar	8/18/64
Prowers	Lamar	T. 22 S., R. 45 W., sec. 4, NE. of Lamar	J. K. Sherwood, Bristol	8/19/64
Prowers	Lamar	T. 23 S., R. 46 W., sec. 10, SW1/4 SE1/4SE1/4, S. of Lamar	City of Lamar	8/18/64
Prowers	Granada	T. 23 S., R. 44 W., sec. 3, NW1/4, SE1/4SW1/4, W. of Granada	C. A. Hobbs, Abiline, Kansas	8/18/64
Prowers	Lamar	T. 22 S., R. 46 W., sec. 15, NW1/4 SW1/4SW1/4, NE. of Lamar	Frank Ray, Lamar	8/19/64
Prowers	Lamar	T. 22 S., R. 45 W., sec. 23, NW1/4 NW1/4NW1/4, NE. of Lamar	Wilder Brothers, Bristol	8/19/64
Prowers	Lamar	T. 22 S., R. 45 W., sec. 23, SW1/4, SE1/2SW1/4, NE. of Lamar	Mary C. Smith, Lamar	8/19/64
Prowers	Lamar	T. 22 S., R. 45 W., sec. 13, SE1/4 SW1/4SE1/2, NE. of Lamar	Tanaka	8/19/64
Prowers	Lamar	T. 22 S., R. 45 W., sec. 22, SW1/4 NE1/2NE1/4, NE. of Lamar	Mary C. Smith, Lamar	8/19/64
Prowers	Lamar	T. 22 S., R. 45 W., sec. 32, NE1/4 E. of Lamar	Lamar Farms	8/18/64
Prowers	Lamar	T. 22 S., R. 44 W., sec. 22, NW1/4 NW1/4NW1/4, E. of Lamar	Chester Cruickshank	8/19/64
Prowers	Lamar	T. 23 S., R. 46 W., sec. 22, NW1/4 NE1/4NW1/4, S. of Lamar	City of Lamar	8/18/64
Prowers	Holly	T. 23 S., R. 42 W., sec. 4, NW1/4 SW1/4NW1/4, NW. of Holly	W. E. Hartshorn, Holly	8/19/64
Prowers	Holly	T. 23 S., R. 42 W., sec. 2, NW1/4 SW1/4SE1/4, N. of Holly	C. F. Schmidt, Holly	8/19/64
Prowers	Holly	T. 23 S., R. 42 W., sec. 8, SW1/4 NW1/4NW1/4, NW. of Holly	W. E. Hartshorn, Holly	8/19/64
Prowers	Lamar	T. 22 S., R. 46 W., sec. 30, SE1/4 SE1/4SE1/4	City of Lamar, Power and Light Company	8/19/64
Prowers	Lamar	T. 23 S., R. 45 W., sec. 1, NW1/4 NW1/4NW1/4, E. of Lamar	S. W. Beggs, Lamar	8/18/64

data for selected ground-water samples--Continued

Time (24 hour)	Water-yielding unit	Depth of well (ft)	Temp (°C)	Gross alpha; U-natural (µg/L)	Gross beta; Sr-90/Y-90 (pCi/L)	Radium-226 planchet (pCi/L)	U-natural; direct fluor. (µg/L)
1530	Quaternary valley fill	98	15	--	--	--	59 ± 6
--	Quaternary valley fill	40	14.5	--	--	--	120 ± 10
1700	Quaternary valley fill	45-47	14.5	--	--	--	200 ± 20
--	Quaternary valley fill	75	14	--	--	--	32 ± 3
--	--	--	15.5	--	--	--	4.9 ± 0.5
--	--	--	13.5	--	--	--	32 ± 3
--	Quaternary valley fill	--	13.5	--	--	--	30 ± 3
--	Quaternary valley fill	125	15	--	--	--	140 ± 10
1355	Quaternary valley fill	120	16	--	--	--	22 ± 2
1550	Quaternary valley fill	82	16.5	--	--	--	6.1 ± 0.6
1305	Quaternary valley fill along Big Sandy Creek	43	14	--	--	--	30 ± 3
1600	Quaternary valley fill along Clay Creek	66	16.5	--	--	--	4.2 ± 0.4
1900	Quaternary valley fill	53	13.5	--	--	--	33 ± 3
--	Quaternary valley fill	80	14	--	--	--	140 ± 10
1345	Quaternary valley fill	109	15	--	--	--	35 ± 4
1325	Quaternary valley fill	--	14	--	--	--	3.5 ± 0.4
1745	Quaternary valley fill	82	15	--	--	--	68 ± 7
1340	Quaternary valley fill	13	17	--	--	--	17 ± 2
1800	Quaternary valley fill	82	14.5	--	--	--	25 ± 3
--	Quaternary valley fill along Wolf Creek	60	15.5	--	--	--	17 ± 2
--	Quaternary valley fill along Clay Creek	49	16.5	--	--	--	4.2 ± 0.4
1800	Quaternary valley fill	138	15	--	--	--	96 ± 10
--	Quaternary valley fill along Wild Horse Creek	91	14	--	--	--	180 ± 20
--	Quaternary valley fill	--	14.5	--	--	--	66 ± 7
--	Quaternary valley fill	61	15	--	--	--	25 ± 3
1815	Quaternary valley fill	53	15	--	--	--	24 ± 2

Table 1.-- *Sample-site data and radiochemical*

County	Nearest community	Location of point of collection	Owner or operator	Date sampled
COLORADO (cont.)				
Pueblo	Avondale	T. 21 S., R. 62 W., sec. 4, NW1/4 NE1/4NW1/4, Avondale	--	8/19/64
Pueblo	Boone	T. 21 S., R. 61 W., sec. 7, NE1/4 NE1/4NE1/4, S. of Boone	--	8/19/64
Pueblo	Fowler	T. 22 S., R. 60 W., sec. 11, NW1/4 SE1/4NW1/4, WNW. of Fowler	--	8/19/64
Pueblo	Fowler	T. 21 S., R. 61 W., sec. 26, NW1/4 NW1/4NW1/4, WNW. of Fowler, discharge pipe, 1.5 mi from well	--	8/19/64
Pueblo	Avondale	T. 21 S., R. 62 W., sec. 2, SW1/4 SW1/4SW1/4, ESE. Avondale	--	8/19/64
Prowers	Granada	T. 23 S., R. 43 W., sec. 21, SW1/4 SE1/4SE1/4, SE. of Granada	Patterson	8/19/64
Prowers	Lamar	T. 22 S., R. 47 W., sec. 23, NE1/4 NW1/4NE1/4, NW. of Lamar	F. K. Rayand James Wagner, Lamar	8/19/64
Prowers	Granada	T. 23 S., R. 43 W., sec. 14, NE1/4 SW1/4SE1/4, E. of Granada	Amity Land and Milling Company	8/19/64
Prowers	Holly	T. 23 S., R. 42 W., sec. 24, NE1/4 NE1/4SW1/4, SW. of Holly	Joseph Dorenkamp, Holly	8/19/64
Prowers	Lamar	T. 22 S., R. 47 W., sec. 30, SW1/4 SE1/4SW1/4, W. of Lamar	Hinton Hunter, Lamar	8/19/64
Prowers	Holly	T. 23 S., R. 42 W., sec. 14, NW1/4 SW1/4SW1/4, Holly	N. F. Allenbaugh, Holly	8/19/64
Prowers	Granada	T. 22 S., R. 44 W., sec. 19, NE1/4 SW1/4NE1/4N, W. of Granada	Fred Towne	8/19/64
Bent	Big Bend	T. 21 S., R. 48 W., sec. 14, NE1/4 SE1/4SE1/4, 1.75 mi NW. of Big Bend	R. Temple	8/18/64
Bent	Prowers	T. 22 S., R. 48 W., sec. 34, NE1/4 SE1/4NE1/4, 1 mi NW. of Prowers	H. Downing	8/18/64
Bent	Prowers	T. 22 S., R. 48 W., sec. 35, SE1/4 NW1/4SW1/4, 0.5 mi N. of Prowers	J. Broyles	8/18/64
Bent	Hasty	T. 22 S., R. 49 W., sec. 28, NW1/4 SW1/4NE1/4, 2 mi E. of Hasty	Warren Smith	8/18/64
Bent	Fort Lyons	T. 22 S., R. 51 W., sec. 21, NW1/4 SW1/4NE1/4, 2 mi NE. of Fort Lyons	Roy Cooper	8/18/64
Bent	Las Animas	T. 22 S., R. 51 W., sec. 31, SW1/4 SW1/4SW1/4, 3 mi NE. of Las Animas	T. Maruyama	8/18/64
Bent	Las Animas	T. 22 S., R. 51 W., sec. 32, NE1/4 NE1/4NE1/4, 5 mi NE. of Las Animas	Alvin Spady	8/18/64
Bent	Las Animas	T. 22 S., R. 52 W., sec. 25, NE1/4 SW1/4NW1/4, 4 mi NE. of Las Animas	J. E. Grier	8/18/64
Bent	Las Animas	T. 22 S., R. 52 W., sec. 26, NW1/4 NE1/4SW1/4, 3.5 mi N. of Las Animas	David Jenkins	8/18/64
Bent	Las Animas	T. 22 S., R. 52 W., sec. 31, SW1/4 NW1/4SW1/4, 4 mi NW. of Las Animas	F. Slack	8/19/64
Bent	Las Animas	T. 22 S., R. 52 W., sec. 33, NW1/4 SW1/4NW1/4, 2.5 mi NW. of Las Animas	August Miller	8/19/64
Bent	Las Animas	T. 22 S., R. 52 W., sec. 35, SW1/4 NW1/4SW1/4, 1.5 mi N. of Las animas	Robert Jessup	8/19/64
Bent	Las Animas	T. 22 S., R. 53 W., sec. 24, NW1/4 SW1/4NW1/4, 7.5 mi NW. of Las Animas, composite of 2 wells	Alvin Spady	8/19/64

data for selected ground-water samples--Continued

Time (24 hour)	Water-yielding unit	Depth of well (ft)	Temp (°C)	Gross alpha; U-natural (µg/L)	Gross beta; Sr-90/Y-90 (pCi/L)	Radium-226 planchet (pCi/L)	U-natural; direct fluor. (µg/L)
--	Quaternary valley fill	--	13.5	--	--	--	12 ± 1
--	Quaternary valley fill	--	14	--	--	--	23 ± 2
--	Quaternary valley fill	--	--	--	--	--	57 ± 6
--	Quaternary valley fill	--	16	--	--	--	3.4 ± 0.4
--	Quaternary valley fill	--	14	--	--	--	7.6 ± 0.8
--	Dakota Sandstone and CheyenneSandstone	900	23	--	--	--	0.5 ± 0.4
--	Quaternary valley fill	31.5	16.5	--	--	--	130 ± 10
1700	Quaternary valley fill	63	14	--	--	--	49 ± 5
--	Quaternary valley fill	68	--	--	--	--	44 ± 4
--	Quaternary valley fill	40	14	--	--	--	100 ± 10
--	Quaternary valley fill	30	15	--	--	--	61 ± 6
--	Quaternary valley fill	138	15	--	--	--	13 ± 1
--	Quaternary valley fill	51	13.5	--	--	--	170 ± 20
--	Quaternary valley fill	25.8	15	--	--	--	99 ± 10
--	Quaternary valley fill	9.3	15	--	--	--	34 ± 3
--	Quaternary valley fill	36	17	--	--	--	72 ± 7
--	Quaternary valley fill	48.9	14	--	--	--	43 ± 4
--	Quaternary valley fill	40.7	13.5	--	--	--	110 ± 10
--	Quaternary valley fill	70	14	--	--	--	34 ± 3
--	Quaternary valley fill	68	13.5	--	--	--	62 ± 6
--	Quaternary valley fill Greenhorn Limestone	20	13	--	--	--	76 ± 8
--	Quaternary valley fill	56	--	--	--	--	69 ± 7
--	Quaternary valley fill	58.4	14.5	--	--	--	93 ± 9
--	Quaternary valley fill	--	--	--	--	--	71 ± 7
--	Quaternary valley fill	40.6	14	--	--	--	18 ± 2

Table 1.-- *Sample-site data and radiochemical*

County	Nearest community	Location of point of collection	Owner or operator	Date sampled
COLORADO (cont.)				
Bent	Las Animas	T. 22 S., R. 53 W., sec. 26, NE1/4 SW1/4SW1/4, 5 mi NW. of Las Animas	Alvin Spady	8/19/64
Bent	Las Animas	T. 22 S., R. 53 W., sec. 32, SE1/4 SE1/4SW1/4, 5 mi NW. of Las Animas	D. Klusman	8/19/64
Bent	Las Animas	T. 22 S., R. 53 W., sec. 35, NW1/4 NE1/4SE1/4, 4 mi NW. of Las Animas	Alvin Spady	8/19/64
Bent	Prowers	T. 23 S., R. 48 W., sec. 6, SE1/4 NE1/4NW1/4, 3.5 mi W. of Prowers	Broyles	8/18/64
Bent	Prowers	T. 23 S., R. 49 W., sec. 12, NW1/4 NE1/4NE1/4, 5 mi W. of Prowers	Sniff Brothers	8/18/64
Bent	Las Animas	T. 23 S., R. 52 W., sec. 4, NW1/4 NW1/4NW1/4, 5 mi E. of Las Animas	Veterans Administration Fort Lyons Veterans Hospital	8/18/64
Bent	Las Animas	T. 23 S., R. 51 W., Sec. 18, NE1/4 NW1/4NW1/4, 3.25 mi E. of Las Animas	J. Davidson	8/19/64
Bent	Las Animas	T. 23 S., R. 51 W., sec. 18, SE1/4 NE1/4NE1/4, 3.75 mi SE. of Las Animas	J. Potter	8/19/64
Bent	Las Animas	T. 23 S., R. 52 W., sec. 3, SE1/4 SW1/4NE1/4, City line, Las Animas	Patterson's Market	8/19/64
Bent	Las Animas	T. 23 S., R. 52 W., sec. 4, SE1/4 NE1/4SW1/4, 0.5 mi NW. of Las Animas	J. Pritchard	8/19/64
Bent	Las Animas	T. 23 S., R. 52 W., sec. 6, NW1/4 NW1/4SE1/4, 3.5 mi NW. of Las Animas	Clay Martin	8/19/64
Bent	Las Animas	T. 23 S., R. 52 W., sec. 10, NW1/4 NW1/4SW1/4, W. side of Las Animas, well no. 2	City of Las Animas	8/19/64
Bent	Las Animas	T. 23 S., R. 52 W., sec. 11, SE1/4 NE1/4SW1/4, 1 mi E. of Las Animas	John Brooks	8/19/64
Bent	Las Animas	T. 23 S., R. 52 W., sec. 15, SE1/4 SE1/4SW1/4, 2 mi S. of Las Animas	Las Animas Cemetary	8/19/64
Bent	Las Animas	T. 23 S., R. 52 W., sec. 16, SW1/4 SW1/4NW1/4, 2 mi SW. of Las Animas	Alvin Spady	8/18/64
Bent	Las Animas	T. 23 S., R. 52 W., sec. 18, NE1/4 NW1/4NW1/4, 3 mi W. of Las Animas	Wagner	8/19/64
Bent	Las Animas	T. 23 S., R. 53 W., sec. 2, NE1/4 NW1/4SW1/4, 5 mi W. of Las Animas	Clyde Dawn	8/19/64
Bent	Las Animas	T. 23 S., R. 53 W., sec. 2, SW1/4 NE1/4SW1/4, 5 mi W. of Las Animas	Clyde Dawn	8/19/64
Bent	Las Animas	T. 23 S., R. 53 W., sec. 4, SW1/4 NW1/4NW1/4, 7.5 mi W. of Las animas	John Wadhams	8/19/64
Bent	Las Animas	T. 23 S., R. 53 W., sec. 9, NW1/4 NW1/4NE1/4, 7.5 mi W. of Las Animas	John Wadhams	8/19/64
Bent	Las Animas	T. 23 S., R. 53 W., sec. 10, SE1/4 SE1/4NE1/4, 5.5 mi W. of Las Animas	H. A. Berry	8/19/64
Bent	Las Animas	T. 23 S., R. 53 W., sec. 12, NE1/4 SW1/4SW1/4, 4 mi W. of Las Animas	C. Turner	8/19/64
Otero	La Junta	T. 23 S., R. 54 W., sec. 24, NW1/4 NW1/4SW1/4, 8 mi NE. of La Junta	Forest Harmon	8/20/64
Otero	La Junta	T. 23 S., R. 55 W., sec. 32, SE1/4 SW1/4NE1/4, 2.5 mi NW. of La Junta	W. Shelton	8/20/64
Otero	La Junta	T. 23 S., R. 55 W., sec. 31, NE1/4 NW1/4SW1/4, 4 mi NW. of La Junta	W. Shelton	8/20/64

data for selected ground-water samples--Continued

Time (24 hour)	Water-yielding unit	Depth of well (ft)	Temp (°C)	Gross alpha; U-natural (µg/L)	Gross beta; Sr-90/Y-90 (pCi/L)	Radium-226 planchet (pCi/L)	U-natural; direct fluor. (µg/L)
--	Quaternary valley fill	41	13	--	--	--	16 ± 2
--	Quaternary valley fill	25.9	15.5	--	--	--	52 ± 5
--	Quaternary valley fill	29	13	--	--	--	54 ± 5
--	Quaternary valley fill	47.5	15.5	--	--	--	24 ± 2
--	Quaternary valley fill	18.8	14	--	--	--	11 ± 1
--	Quaternary valley fill	35	14.5	--	--	--	75 ± 8
--	Quaternary valley fill	45	14	--	--	--	21 ± 2
--	Quaternary valley fill	18	16.5	--	--	--	17 ± 2
--	Quaternary valley fill	22	15.5	--	--	--	44 ± 4
--	Quaternary valley fill	28	14	--	--	--	30 ± 3
--	Quaternary valley fill	22.5	11.5	--	--	--	42 ± 4
--	Quaternary valley fill	21.5	15	--	--	--	41 ± 4
--	Quaternary valley fill	12.5	14.5	--	--	--	61 ± 6
--	Quaternary valley fill	21.9	16	--	--	--	58 ± 6
--	Quaternary valley fill	40	14	--	--	--	78 ± 8
--	Quaternary valley fill	37.8	14	--	--	--	74 ± 7
--	Quaternary valley fill	18.5	15.5	--	--	--	85 ± 9
--	Quaternary valley fill	27.2	14.5	--	--	--	80 ± 8
--	Quaternary valley fill	20	13.5	--	--	--	130 ± 10
--	Quaternary valley fill	25.7	13.5	--	--	--	88 ± 9
--	Quaternary valley fill	25	13	--	--	--	23 ± 2
--	Quaternary valley fill	39.8	13.5	--	--	--	42 ± 4
--	Wisconsin age terrace deposits	36	14	--	--	--	31 ± 3
--	Wisconsin age terrace deposits	35.9	14	--	--	--	82 ± 8
--	Wisconsin age terrace deposits	41.7	14	--	--	--	60 ± 6

Table 1.-- *Sample-site data and radiochemical*

County	Nearest community	Location of point of collection	Owner or operator	Date sampled
COLORADO (cont.)				
Bent	Big Bend	T. 21 S., R. 48 W., sec. 25, NW1/4 NW1/4NW1/4, 0.5 mi W. of Big Bend	Guy Coffey	8/20/64
Bent	Las Animas	T. 22 S., R. 53 W., sec. 28, SW1/4 SW1/4NW1/4, 8 mi NW. of Las Animas	R. M. Kintigh	8/20/64
Otero	Cheraw	T. 22 S., R. 54 W., sec. 20, NW1/4 NW1/4SE1/4, 1.75 mi NE. of Cheraw	A. J. McWhirt	8/20/64
Otero	Cheraw	T. 22 S., R. 54 W., sec. 29, NW1/4 NW1/4NW1/4, 1.25 mi NE. of Cheraw	Dr. Ray Estep	8/20/64
Otero	La Junta	T. 23 S., R. 54 W., sec. 13, NW1/4 NW1/4SE1/4, 8.5 mi NE. of La Junta	H. Frank, Jr.	8/19/64
Otero	La Junta	T. 23 S., R 54 W., sec. 16, SE1/4 SE1/4SE1/4, 6 mi NE. of La Junta	Ehrlich	8/20/64
Otero	La Junta	T. 24 S., R. 55 W., sec. 2, NW1/4 SW1/4NE1/4, 0.5 mi N. of La Junta reservoir inlet, composite of 4 wells	AT and SF Railroad	8/20/64
Pueblo	Pueblo	T. 21 S., R. 64 W., sec. 1, NW1/4 SW1/4SW1/4, Pueblo	- -	9/2/64
Pueblo	Pueblo	T. 21 S., R. 64 W., sec. 3, SE1/4 NW1/4NW1/4, Pueblo	- -	9/2/64
Pueblo	Pueblo	T. 21 S., R. 64 W., sec. 1, NW1/4 SW1/4SW1/4, Pueblo	- -	9/2/64
Pueblo	Pueblo	T. 21 S., R. 63 W., sec. 9, SW1/4 SW1/4SW1/4, Pueblo	Austin, Albrecht, Hartman and Patterson	9/2/64
Pueblo	Pueblo	T. 21 S., R. 63 W., sec. 7, SE1/4 SW1/4SW1/4, Pueblo	Charles Genova	9/2/64
Pueblo	Pueblo	T. 21 S., R. 63 W., sec. 3, NE1/4 SW1/4NE1/4, Pueblo	- -	9/2/64
Pueblo	Pueblo	T. 21 S., R. 63 W., sec. 5, SE1/4 NW1/4NW1/4, Pueblo	- -	9/2/64
Pueblo	Pueblo	T. 21 S., R. 64 W., sec. 14, NE1/4 NE1/4NE1/4, Pueblo	- -	9/2/64
Otero	- -	T. 23 S., R. 56 W., sec. 23, SW1/4 SW1/4SW1/4	Hugh Brown	8/27/64
Otero	Swink	T. 23 S., R. 56 W., sec. 23, NE1/4 NE1/4SW1/4, N. of Swink	Paul D. Scott	8/27/64
Otero	- -	T. 23 S., R. 56 W., sec. 15, NW1/4 SE1/4NE1/4	L. R. Russell	8/27/64
Otero	Swink	T. 23 S., R. 56 W., sec. 36, NW1/4 SW1/4NW1/4, S. of Swink	Hanagan Brothers	8/27/64
Rio Blanco	Meeker	T. 1 S., R. 96 W., sec. 10, SE1/4 SE1/4, 30 mi SW. of Meeker	Colorado Department of Game and Fish	10/10/64
Pueblo	- -	T. 19 S., R. 65 W., sec. 36, NW1/4 SE1/4SE1/4, Tap water in house	- -	10/14/64
Fremont	- -	T. 19 S., R. 68 W., sec. 20, NE1/4 NE1/4NW1/4, Sump in excavation for foundation	Ideal Cement	10/15/64
Fremont	- -	T. 19 S., R. 69 W., sec. 13, SE1/4 NE1/4SE1/4	- -	10/15/64
Fremont	- -	T. 19 S., R. 69 W., sec. 17, NE1/4 NW1/4SE1/4	- -	10/15/64
Fremont	- -	T. 19 S., R. 69 W., sec. 21, NW1/4 NE1/4NE1/4	- -	10/15/64

data for selected ground-water samples--Continued

Time (24 hour)	Water-yielding unit	Depth of well (ft)	Temp (°C)	Gross alpha; U-natural (µg/L)	Gross beta; Sr-90/Y-90 (pCi/L)	Radium-226 planchet (pCi/L)	U-natural; direct fluor. (µg/L)
--	Quaternary valley fill	44	13.5	--	--	--	100 ± 10
--	Quaternary valley fill	32	13.5	--	--	--	11 ± 1
--	Quaternary valley fill	38.5	13	--	--	--	140 ± 10
--	Quaternary valley fill	44.5	13.5	--	--	--	180 ± 20
--	Wisconsin age terrace deposits	35	15	--	--	--	29 ± 3
--	Wisconsin age terrace deposits	56.1	14.5	--	--	--	25 ± 3
--	Quaternary valley fill	34 & 51	16.5	--	--	--	13 ± 1
--	--	--	--	--	--	--	41 ± 4
--	--	--	14	--	--	--	52 ± 5
--	--	--	14.5	--	--	--	81 ± 8
--	Quaternary terrace deposits	51.5	13.5	--	--	--	71 ± 7
--	Quaternary terrace deposits	65.4	14.5	--	--	--	67 ± 7
--	--	--	13.5	--	--	--	48 ± 5
--	--	--	14.5	--	--	--	39 ± 4
--	--		15.5	--	--	--	36 ± 4
--	Wisconsin age terrace deposits	50	13.5	--	--	--	42 ± 4
--	Quaternary valley fill	35	13.5	--	--	--	25 ± 3
--	Quaternary valley fill	46	13	--	--	--	38 ± 4
--	Quaternary valley fill	50.5	13.5	--	--	--	78 ± 8
--	Green River Formation	3000	26.5	--	15 ± 2	0.2 ± 0.1	< 0.4
--	Quaternary valley fill	--	14.5	--	--	--	39 ± 4
--	Quaternary valley fill	--	18.5	--	--	--	24 ± 2
--	Quaternary valley fill	--	19	--	--	--	8.1 ± 0.8
--	--	--	14.5	--	--	--	8.2 ± 0.8
--	Quaternary valley fill	--	15.5	--	--	--	6.9 ± 0.7

Table 1.-- *Sample-site data and radiochemical*

County	Nearest community	Location of point of collection	Owner or operator	Date sampled
COLORADO (cont.)				
Pueblo	- -	T. 20 S., R. 64 W., sec. 18, SW1/4 NW1/4NE1/4	- -	10/14/64
Pueblo	- -	T. 20 S., R. 65 W., sec. 33, SE1/4 SW1/4NE1/4, Water holes	- -	10/16/64
Pueblo	- -	T. 20 S., R. 65 W., sec. 34, NE1/4 SE1/4NW1/4	- -	10/16/64
Pueblo	- -	T. 20 S., R. 65 W., sec. 36, NE1/4 SW1/4SW1/4	Southern Colorado Power Company	10/16/64
Pueblo	- -	T. 20 S., R. 65 W., sec. 36, NW1/4 NE1/4NE1/4	Mountain Ice and Coal Co.	10/16/64
Pueblo	- -	T. 20 S., R. 67 W., sec. 14, SW1/4 SE1/4SE1/4	Opal Jackson	10/15/64
Pueblo	- -	T. 21 S., R. 64 W., Sec. 5, NE1/4 NW1/4NW1/4	- -	10/16/64
Pueblo	- -	T. 21 S., R. 64 W., sec. 5, NW1/4 SW1/4SW1/4	Steel City Boat and Club Lake	10/16/64
Pueblo	- -	T. 21 S., R. 64 W., sec. 6, NE1/4 NE1/4NE1/4, Lawn spigot	Walters Beer Company	10/16/64
Pueblo	- -	T. 21 S., R. 65 W., sec. 5, NW1/4 NE1/4NW1/4	- -	10/16/64
Rio Blanco	Meeker	T. 1 S., R. 97 W., sec. 11, SE1/4 30 mi SE. of Meeker	Colorado Department of Game and Fish	12/9/64
FLORIDA				
Martin	- -	T. 38 N., R. 38 E., sec. 1, NE1/4 Carlton Ranch, artesian well	- -	12/8/60
Duval	Jacksonville	Main Street Station, finished water	City of Jacksonville	8/29/61
Dade	Miami	Hialeah plant, finished water	- -	8/23/61
Dade	Miami	Alexander Orr, Jr. Filter Plant, finished water	- -	8/23/61
Pinellas	St. Petersburg	Cosme well field, 23 wells, finished water	- -	8/21/61
Martin	Okeechobee	T. 38 S., R. 38 E., sec. 14, NW1/4 E. of Okeechobee, artesian well	Rubin Carlton, Ft. Pierce	10/23/61
Martin	Stuart	T. 39 S., R. 41 E., sec. 2, SE1/4 S. of Stuart, artesian well	R. M. Harris Ranch, Stuart	10/24/61
Martin	Indiantown	T. 39 S., R. 38 E., sec. 23, NW1/4, NW. of Indiantown, arteiian well	Joe Adams	10/25/61
Martin	Stuart	T. 38 S., R. 39 E., sec. 5, SE1/4, W. of Stuart, artesian well	Allapattah Cattle Co.	10/24/61
Martin	Stuart	T. 38 S., R. 40 E., sec. 9, SW1/4, W. of Stuart, artesian well	William J. Matheson	10/24/61
Martin	Port Sewall	Port Sewall, artesian well	Sunrise Inn, Port Sewall	10/24/61
Martin	Okeechobee	T. 38 S., R. 38 E., sec. 1, NE1/4, E. of Okeechobee, artesian well	Rubin Carlton, Ft. Pierce	10/23/61
Martin	Indiantown	T. 39 S., R. 38 E., sec. 23, SW1/4, artesian well	Joe Adams, Miami	10/25/61
Martin	Okeechobee	T. 38 S., R. 37 E., sec. 24, NE1/4, E. of Okeechobee, artesian well	H. C. Williamson, Indiantown	10/23/61
Martin	Stuart	T. 39 S., R. 40 E., sec. 13, SE1/4, SW. of Stuart, artesian well	Allens Ranch, Stuart	10/25/61
Martin	Stuart	T. 38 S., R. 39 E., sec. 19, NE1/4, W. of Stuart, artesian well	Allapattah Cattle Co.	10/24/61

data for selected ground-water samples--Continued

Time (24 hour)	Water-yielding unit	Depth of well (ft)	Temp (°C)	Gross alpha; U-natural (µg/L)	Gross beta; Sr-90/Y-90 (pCi/L)	Radium-226 planchet (pCi/L)	U-natural; direct fluor. (µg/L)
--	Quaternary valley fill	--	14.5	--	--	--	16 ± 2
--	Quaternary terrace deposits	--	20.5	--	--	--	12 ± 1
--	Quaternary valley fill	--	14.5	--	--	--	16 ± 2
--	Quaternary valley fill	--	22	--	--	--	5.2 ± 0.5
--	Quaternary valley fill	--	16.5	--	--	--	14 ± 1
--	Quaternary valley fill	--	17	--	--	--	6.1 ± 0.6
--	Quaternary valley fill	--	16	--	--	--	30 ± 3
--	Quaternary valley fill	--	15.5	--	--	--	17 ± 2
--	Quaternary valley fill	--	17	--	--	--	22 ± 2
--	Quaternary valley fill	--	14	--	--	--	14 ± 1
--	Green River Formation	3051	15.5	--	250 ± 38	4.7 ± 0.9	< 0.4
--	--	835	33	28 ± 16	62 ± 9	10 ± 2	< 0.1
--	--	--	25	--	4.7 ± 0.7	0.3 ± 0.1	< 0.1
--	--	--	--	--	2.7 ± 0.4	< 0.1	0.2 ± 0.1
--	--	--	--	--	5.2 ± 0.8	0.1 ± 0.1	0.2 ± 0.1
--	--	--	--	--	9.9 ± 1.5	0.4 ± 0.1	0.1 ± 0.1
--	--	792	28	--	23 ± 4	1.3 ± 0.3	< 0.1
--	--	1315	23.5	--	220 ± 30	1.4 ± 0.3	< 0.1
--	--	1120	26.5	--	30 ± 4	6.4 ± 1.3	< 0.1
--	--	777	30	--	28 ± 4	2.1 ± 0.4	< 0.1
--	--	958	26	--	59 ± 9	1.5 ± 0.3	0.4 ± 0.1
--	--	1020	24.5	--	25 ± 4	0.4 ± 0.1	< 0.1
--	--	843	33	--	36 ± 5	4.8 ± 1.0	< 0.1
--	--	1278	29	--	17 ± 2	1.1 ± 0.2	< 0.1
--	--	1050	27	--	16 ± 2	0.5 ± 0.1	0.3 ± 0.3
--	--	990	26.5	--	24 ± 3	0.8 ± 0.2	0.4 ± 0.1
--	--	695	29.5	--	46 ± 7	2.9 ± 0.6	0.9 ± 0.1

County	Nearest community	Location of point of collection	Owner or operator	Date sampled
FLORIDA (cont.)				
Martin	Stuart	T. 38 S., R. 39 E., sec. 5, SE1/4, W. of Stuart, artesian well	Allapattah Cattle Co.	10/24/61
Orange	Cocoa	T. 24 S., R. 32 E., sec. 11, Cocoa	City of Cocoa	1/9/63
Brevard	Titusville	T. 21 S., R. 35 E., sec. 32, Titusville	City of Titusville	1/8/63
Brevard	Cape Canaveral	T. 21 S., R. 37 E., sec. 31, SW1/4, Merritt Island	U.S. Geological Survey, Tallahassee	1/7/63
Brevard	Cape Canaveral	T. 21 S., R. 37 E., sec. 21, Merritt Island	U.S. Government, Cape Canaveral	1/8/63
Brevard	Eau Gallie	T. 27 S., R. 37 E., sec. 17, Eau Gallie	City of Eau Gallie	1/9/63
Brevard	Cape Canaveral	T. 22 S., R. 37 E., sec. 17, NW1/4, Merritt Island	U.S. Government, Cape Canaveral	1/8/63
Brevard	Cape Canaveral	T. 22 S., R. 37 E., sec. 13, near N. gate, Cape Canaveral	U.S. Geological Survey, Titusville	2/12/63
Brevard	Titusville	T. 21 S., R. 36 E., sec. 20, SW1/4, 4 mi E. of Titusville	U.S. Geological Survey, Tallahassee	3/19/63
Brevard	Orsino	T. 22 S., R. 37 E., sec. 31, SW1/4, across from Orsino Post Office	U.S. Geological Survey, Tallahassee	e. 03/63
Brevard	Cape Canaveral	T. 21 S., R. 37 E., sec. 31, NW1/4	U.S. Government, Cape Canaveral	3/18/63
Brevard	- -	T. 23 S., R. 38 E., sec. 29, N1/2, Air Force Missile Test Center	U.S. Geological Survey	3/19/63
GEORGIA				
Chatham	Savannah	Well no. 2	City of Savannah	8/30/61
Chatham	Savannah	ID Supply	City of Savannah	8/30/61
Fulton	Atlanta	Hamphill filter plant	- -	8/31/61
HAWAII				
Kauai	Kealia	5.5 mi W. of Kealia, Moalepe tunnel overflow pipe	Kauai County Water Supply Board	8/17/62
Kauai	Lihue	Maraleha tunnel overflow pipe	Kauai County Water Supply Board	8/17/62
Honolulu	Honolulu	Kaimuki pumping station, Well no. 7A-H	Honolulu County and City Water Supply Board	8/29/62
Honolulu	Honolulu	Beretania pumping station, Well no. 88A-I	Honolulu County and City Water Supply Board	8/29/62
Honolulu	Honolulu	Kalihi underground station, shaft and basal tunnel	Honolulu County and City Water Supply Board	8/29/62
Hawaii	Kawaihae	Lat 20°2' N., long 155°47' W., Kawaihae	State of Hawaii Division of Water and Land, Honolulu	6/25/63
IDAHO				
Custer	Challis	T. 12 N., R. 22 E., sec. 24, 74 mi S. of Salmon	- -	e. 08/54
- -	Bear	16 mi NE. of Bear	- -	e. 08/54
Owyhee	Bruneau	T. 7 S., R. 6 E., sec. 9, NW1/4NE1/4, 6 mi. SSE of Bruneau	- -	e. 08/54
Owyhee	Bruneau	T. 6 S., R. 5 E., sec. 24, Bruneau	- -	e. 08/54
- -	Agiley	T. 2 N., R. 18 E., 2.5 mi. SW of Agiley	- -	e. 08/54
Bingham	Blackfoot	Blackfoot	- -	e. 08/54
Custer	Clayton	T. 11 N., R. 17 E., sec. 27, SE1/4 SE1/4, E. of Clayton	- -	e. 09/54

data for selected ground-water samples--Continued

Time (24 hour)	Water-yielding unit	Depth of well (ft)	Temp (°C)	Gross alpha; U-natural (µg/L)	Gross beta; Sr-90/Y-90 (pCi/L)	Radium-226 planchet (pCi/L)	U-natural; direct fluor. (µg/L)
--	--	853	31	--	34 ± 5	2.7 ± 0.5	0.8 ± 0.4
930.0	Limestone, Floridan	790	22	--	14 ± 2	1.4 ± 0.3	< 0.4
1600.0	sand, gravel and shells	110	--	--	1.2 ± 0.2	0.2 ± 0.1	< 0.4
1430.0	Sand	13	24.5	--	18 ± 3	3.0 ± 0.6	< 0.4
930.0	Sand	14	--	--	180 ± 30	0.6 ± 0.1	1.0 ± 0.4
1130.0	Sand and shells	44	--	--	1.9 ± 0.3	0.9 ± 0.2	< 0.4
1330.0	Sand	15	--	--	3.2 ± 0.5	1.0 ± 0.2	< 0.4
--	Sand	11	26	--	27 ± 4	0.1 ± 0.1	< 0.4
--	Sand	8.6	23	--	9.2 ± 1.4	0.6 ± 0.1	0.8 ± 0.4
--	Sand and shells	15	21.5	--	5.4 ± 0.8	0.3 ± 0.1	< 0.4
--	Floridan aquifer	230	23.5	--	12 ± 2	1.4 ± 0.3	< 0.4
--	Sand and shells	8.2	20	--	9.4 ± 1.4	0.2 ± 0.1	< 0.4
--	--	--	--	--	2.9 ± 0.4	0.1 ± 0.1	< 0.1
--	--	--	25.5	--	6.0 ± 0.9	0.1 ± 0.1	< 0.1
--	--	--	21.5	--	3.3 ± 0.5	< 0.1	< 0.1
--	Waimea Canyon Basalt	--	19.5	--	1.6 ± 0.2	< 0.1	0.2 ± 0.2
--	--	--	19	--	1.4 ± 0.2	< 0.1	< 0.1
--	Koolau Basalt	300	22.5	--	1.8 ± 0.3	< 0.1	< 0.1
--	Koolau Basalt	600	21.5	--	2.6 ± 0.4	< 0.1	< 0.1
--	Koolau Basalt	--	25.5	--	4.6 ± 0.7	< 0.1	< 0.1
--	--	1043	36	--	12 ± 2	< 0.1	< 0.4
--	--	--	--	--	< 7	0.2	0.6
--	--	--	--	--	< 5	< 0.1	0.2
--	--	--	--	--	< 14	< 0.1	< 0.1
--	--	--	--	--	< 14	< 0.1	< 0.1
--	--	--	--	--	< 14	< 0.1	< 0.1
--	--	--	--	--	< 34	0.2	3.4
--	--	--	--	--	< 34	13	0.2

Table 1.-- *Sample-site data and radiochemical*

County	Nearest community	Location of point of collection	Owner or operator	Date sampled
IDAHO (cont.)				
Custer	Clayton	N. of Clayton	- -	e. 09/54
Custer	- -	Lucky Custer Mine	- -	e. 09/54
Custer	Stanley	T. 10 N., R. 13 E., sec. 3, SW1/4 between upper and lower Stanley	- -	e. 09/54
Custer	- -	T. 11 N., R. 15 E., Robinson, Bar Ranch	- -	e. 09/54
Custer	Clayton	T. 11 N., R. 16 E., W. of Clayton on U.S. Highway 93	- -	e. 09/54
Valley	Alpha	N. of Alpha	- -	e. 10/54
Valley	McCall	S. of McCall	- -	e. 10/54
Valley	Roseberry	Roseberry	- -	e. 10/54
Valley	Cascade	SE. City Limits of Cascade	- -	e. 10/54
Valley	Cascade	Halfway between Cascade and Donnelly	- -	e. 10/54
Gooding	Hagerman	T. 7 S., R. 14 E., sec. 18, near Hagerman	- -	e. 04/55
Gooding	Bliss	Near Bliss	- -	e. 04/55
Jerome	Twin Falls	N. of Twin Falls	- -	e. 04/55
Gooding	Buhl	T. 9 S., R. 14 E., sec. 2, N. of Buhl	- -	e. 04/55
Elmore	Featherville	4.5 mi S. of Featherville	- -	e. 07/55
Elmore	Atlanta	2 mi E. of Atlanta	- -	e. 07/55
Boise	Boise	T. 4 N., R. 6 E., E. of Boise	- -	e. 07/55
Owyhee	Rogerson	49 mi SW. of Rogerson	- -	e. 07/56
Owyhee	- -	Delamar Mine, mill tunnel	- -	e. 07/56
Bingham	Atomic City	Atomic City	- -	e. 11/56
Minidoka	Minidoka	Minidoka	- -	e. 11/56
Elmore	Boise	Neimeyer Forest camp E. of Boise	- -	e. 07/55
Lincoln	- -	Owlnza Station	- -	e. 11/56
Lincoln	Richfield	Richfield	- -	e. 11/56
Gooding	Wendell	Wendell	- -	e. 11/56
Minidoka	Rupert	Rupert	- -	e. 11/56
Lincoln	Shoshone	Shoshone	- -	e. 11/56
Blaine	American Falls	21 mi from American Falls	- -	e. 11/56
Bingham	Aberdeen	Aberdeen	- -	e. 11/56
Jerome	Jerome	Jerome	- -	e. 11/56
Jerome	Eden	8.5 mi N. of Eden	- -	e. 11/56
Bingham	Liberty	Near Liberty	- -	e. 11/56
Gooding	Gooding	Gooding	- -	e. 11/56
Blaine	Minidoka	10 mi E. of Minidoka	- -	e. 11/56
Bingham	Rivie	Rivie	- -	e. 11/56
Jerome	Eden	Eden	- -	e. 12/56
Owyhee	Grandview	4 mi SE. of Grandview	- -	e. 04/57
Owyhee	Grandview	T. 4 S., R. 2 E., sec. 32, NW1/4SE1/4, 9 mi WNW. of Grandview	- -	e. 04/57
Bingham	Taber	Taber	- -	e. 05/57
Blaine	Minidoka	10 mi E. of Minidoka	- -	e. 05/57
Lincoln	Kimima	Kimima	- -	e. 05/57
Lemhi	Cobalt	8 mi W. of Cobalt	- -	e. 07/57
Fremont	- -	2.75 mi E. of Macks Inn	- -	e. 08/57
Jefferson	Roberts	2 mi NE. of Roberts	- -	e. 08/57
Bonneville	Ririe	S. of Ririe	- -	e. 08/57
Madison	Rexsburg	T. 6 N., R. 36 E., sec. 30, NE1/4, 7 mi W. of Rexbury	- -	7/14/59
Jefferson	Monteview	3 mi W.and 3 mi N. of Mud Lake	- -	e. 05/57

data for selected ground-water samples--Continued

Time (24 hour)	Water-yielding unit	Depth of well (ft)	Temp (°C)	Gross alpha; U-natural (µg/L)	Gross beta; Sr-90/Y-90 (pCi/L)	Radium-226 planchet (pCi/L)	U-natural; direct fluor. (µg/L)
--	--	--	--	--	< 7	0.5	0.7
--	--	--	--	--	< 14	0.1	0.1
--	--	--	--	--	< 7	< 0.1	< 0.1
--	--	--	--	--	< 8	< 0.1	< 0.1
--	--	--	--	--	< 7	< 0.1	4.6
--	--	--	--	--	< 5	0.2	0.2
--	--	--	--	--	< 5	< 0.1	< 0.1
--	--	--	--	--	< 5	0.1	0.2
--	--	--	--	--	< 7	< 0.1	0.7
--	--	--	--	--	< 7	< 0.1	< 0.1
--	--	--	--	--	< 8	< 0.1	--
--	--	--	--	--	< 8	< 0.1	--
--	--	--	--	--	< 17	< 0.1	3.0
--	--	--	--	--	< 14	< 0.1	2.1
--	--	--	--	--	< 8	< 0.1	< 0.1
--	--	--	--	--	< 11	< 0.1	0.2
--	--	--	--	--	< 5	0.1	5.9
--	--	--	--	--	< 5	0.4	0.5
--	--	--	--	--	< 45	1.0	5.3
--	--	--	--	--	< 9	< 0.1	1.2
--	--	--	--	--	< 11	< 0.1	1.1
--	--	--	--	--	< 8	0.1	0.1
--	--	--	--	--	< 9	< 0.1	1.0
--	--	--	--	--	< 11	< 0.1	2.7
--	--	--	--	--	< 11	< 0.1	1.3
--	--	--	--	--	< 34	0.2	0.1
--	--	--	--	--	< 11	< 0.1	2.7
--	--	--	--	--	< 17	< 0.1	1.3
--	--	--	--	--	< 27	0.2	1.7
--	--	--	--	--	< 14	< 0.1	1.6
--	--	--	--	--	< 14	< 0.1	4.5
--	--	--	--	--	< 23	< 0.1	1.7
--	--	--	--	--	< 17	< 0.1	3.5
--	--	--	--	--	< 17	< 0.1	1.3
--	--	--	--	--	< 34	0.3	0.4
--	--	--	--	--	< 23	< 0.1	2.7
--	--	--	--	--	25	0.3	0.1
--	--	--	--	--	23	0.6	0.1
--	--	--	--	--	< 14	< 0.1	2.8
--	--	--	--	--	< 17	< 0.1	1.1
--	--	--	--	--	< 11	< 0.1	1.2
--	--	--	--	--	170	0.4	1.6
--	--	--	--	2.9	< 7	< 0.1	0.6
--	--	--	--	1.8	< 19	0.1	< 0.1
--	--	--	--	--	< 14	< 0.1	1.2
--	--	--	--	< 0.7	18 ± 3	0.1 ± 0.1	0.5 ± 0.1
--	--	--	--	--	< 76	< 0.1	3.3

Table 1.-- *Sample-site data and radiochemical*

County	Nearest community	Location of point of collection	Owner or operator	Date sampled
IDAHO (cont.)				
Clark	Dubois	NE. corner of Dubois	- -	e. 05/57
Jefferson	Monteview	1.9 mi E. and 3 mi N. of Mud Lake	- -	e. 05/57
Jefferson	Hamer	2 mi N. and 1.8 mi W. of Hamer	- -	e. 05/57
Clark	Dubois	5.5 mi N. and 1.5 mi E. of Dubois	- -	e. 05/57
Jefferson	Terreton	5.5 mi N. and 1.5 mi E. of Terreton	- -	e. 05/57
Jefferson	Terreton	0.5 mi E. of Terreton	- -	e. 05/57
Jefferson	Monteview	7 mi N. and 2.5 mi W. of Monteview	- -	e. 05/57
Jefferson	Monteview	1 mi N. and 2.5 mi W. of Monteview	- -	e. 08/57
Madison	- -	- -	- -	e. 05/57
Bonneville	- -	- -	- -	e. 07/57
Jefferson	- -	- -	- -	e. 07/57
Bonneville	- -	- -	- -	e. 07/57
Jefferson	Terreton	6 mi E. and 1.5 mi S. of Terreton	- -	e. 07/57
Teton	Driggs	Driggs	- -	e. 07/57
Jefferson	Hamer	4.5 mi N. and 4 mi E. of Hamer	- -	e. 07/57
Fremont	Ashton	18 mi NNW. of Ashton	- -	e. 07/57
Jefferson	Hamer	11 mi N. and 4 mi W. of Hamer	- -	e. 07/57
Bingham	- -	- -	- -	e. 08/57
Madison	- -	- -	- -	e. 08/57
Bonneville	- -	- -	- -	e. 08/57
Bonneville	- -	- -	- -	e. 08/57
Gooding	Bliss	Bliss	- -	e. 08/57
Camas	Fairfield	5 mi NE. of Fairfield	- -	e. 08/57
Camas	Fairfield	7 mi ESE. of Fairfield	- -	e. 08/57
Bingham	Fort Hall	Fort Hall	- -	e. 08/57
Jefferson	Roberts	S. of Roberts	- -	e. 08/57
Bingham	Springfield	N. of Springfield	- -	e. 08/57
Bingham	Firth	S. of Firth	- -	e. 08/57
Power	Rockland	N. of Rockland	- -	e. 08/57
Butte	Arco	City of Arco	- -	e. 08/57
Fremont	St. Anthony	City of St. Anthony	- -	e. 08/57
Jefferson	Monteview	2 mi W. of Monteview	- -	e. 08/57
Jefferson	Monteview	2 mi N. and 2.5 mi E. of Monteview	- -	e. 08/57
Clark	Kilgore	2 mi W. of Kilgore	- -	e. 08/57
Madison	Rexburg	City of Rexburg	- -	e. 08/57
Butte	Howe	2.5 mi N. and 0.5 mi W. of Howe	- -	e. 08/57
Camas	Fairfield	W. of Fairfield	- -	e. 08/57
Minidoka	Rupert	Rupert	- -	e. 11/57
Minidoka	Minidoka	Minidoka	- -	e. 11/57
Jerome	Eden	8 mi NW. of Eden	- -	e. 11/57
Jerome	Eden	Eden	- -	e. 11/57
Lincoln	Dietrich	12 mi E. of Dietrich, Owinza Station	- -	e. 11.57
Lincoln	Richfield	Richfield	- -	e. 11/57
Gooding	Wendell	City of Wendell	- -	e. 11/57
Gooding	Gooding	Gooding	- -	e. 11/57
Gooding	Hagerman	T. 6 S., R. 13 E., sec. 36, NW1/4, 4 mi N. of Hagerman, Malad Spring	Idaho Power Company Boise	8/23/82
Gooding	Hagerman	T. 7 S., R. 13 E., sec. 18, NW1/4, 2 mi E. of Hagerman, Big Spring	City of Hagerman and Fish Hatchery	9/10/62
Jerome	Hansen	T. 10 S., R. 18 E., sec. 4, 5 mi N. of Hansen, Devils Washbowl Spring	- -	9/10/62

data for selected ground-water samples--Continued

Time (24 hour)	Water-yielding unit	Depth of well (ft)	Temp (°C)	Gross alpha; U-natural (µg/L)	Gross beta; Sr-90/Y-90 (pCi/L)	Radium-226 planchet (pCi/L)	U-natural; direct fluor. (µg/L)
--	--	--	--	--	< 13	< 0.1	1.2
--	--	--	--	--	< 8	< 0.1	< 0.1
--	--	--	--	--	< 15	< 0.1	1.0
--	--	--	--	--	< 25	< 0.1	1.1
--	--	--	--	--	< 9	< 0.1	1.1
--	--	--	--	--	< 38	< 0.1	2.4
--	--	--	--	--	< 19	< 0.1	1.2
--	--	--	--	--	< 100	< 0.1	3.8
--	--	--	--	--	< 18	< 0.1	1.0
--	--	--	--	--	< 18	< 0.1	0.9
--	--	--	--	--	< 30	< 0.1	0.8
--	--	--	--	--	< 18	< 0.1	1.2
--	--	--	--	--	< 14	< 0.1	1.0
--	--	--	--	--	< 15	< 0.1	1..5
--	--	--	--	--	< 14	< 0.1	0.7
--	--	--	--	--	6	0.1	0.1
--	--	--	--	--	< 14	< 0.1	1.0
--	--	--	--	47	< 23	< 0.1	2.9
--	--	--	--	--	< 18	< 0.1	0.9
--	--	--	--	--	< 23	0.1	1.5
--	--	--	--	--	< 23	< 0.1	2.1
--	--	--	--	--	< 14	< 0.1	0.3
--	--	--	--	1.6	< 13	0.2	0.5
--	--	--	--	< 0.4	< 9	< 0.1	0.1
--	--	--	--	3	< 13	< 0.1	1.6
--	--	--	--	1.3	< 12	< 0.1	1.3
--	--	--	--	--	< 15	< 0.1	1.8
--	--	--	--	5.8	< 35	< 0.1	4.9
--	--	--	--	--	< 12	< 0.1	0.1
--	--	--	--	--	< 12	0.2	3.3
--	--	--	--	--	< 8	< 0.1	0.4
--	--	--	--	--	53	< 0.1	4.3
--	--	--	--	--	35	< 0.1	8.4
--	--	--	--	--	< 8	< 0.1	0.3
--	--	--	--	< 4	< 12	< 0.1	1.7
--	--	--	--	< 5	< 18	0.1	1.8
--	--	--	--	< 4	< 12	0.1	1.0
--	--	--	--	< 6	< 34	0.2	0.1
--	--	--	--	< 3	< 11	< 0.1	1.6
--	--	--	--	4.9	< 11	0.1	2.3
--	--	--	--	7.2	< 17	< 0.1	4.8
--	--	--	--	< 3	< 7	0.1	1.5
--	--	--	--	3	< 19	< 0.1	3.3
--	--	--	--	< 3	< 8	< 0.1	2.3
--	--	--	--	10	< 11	< 0.1	5.3
--	Snake River Group	--	--	--	5.7 ± 0.9	< 0.1	2.7 ± 0.4
--	Snake River Group	--	--	--	5.2 ± 0.8	< 0.1	2.8 ± 0.4
--	Snake River Group	--	--	--	12.0 ± 2.0	0.2 ± 0.1	7.1 ± 0.7

Table 1.-- *Sample-site data and radiochemical*

County	Nearest community	Location of point of collection	Owner or operator	Date sampled
IDAHO (cont.)				
Bingham	Thomas	5.3 mi W. of Thomas	- -	e. 11/57
Bingham	Tabor	Tabor	- -	e. 11/57
Bingham	Atomic City	Atomic City	- -	e. 11/57
Lincoln	Shoshone	Shoshone	- -	e. 11/57
Jerome	Jerome	Jerome	- -	e. 11/57
Fremont	Big Springs	Big Springs	- -	9/4/59
Bingham	Aberdeen	Aberdeen	- -	e. 11/57
Lincoln	Kumima	Kumima	- -	e. 11/57
Owyhee	- -	T. 14 S., R. 9 E., sec. 2, NW1/4	U.S. Bureau of Land Management	8/22/62
Twin Falls	Castleford	T. 10 S., R. 12 E., sec. 11, SE1/4, 9 mi W. of Castleford	Anton Potucek, Buhl	8/22/62
Jerome	Twin Falls	3 mi N. of Twin Falls, Blue Lake Spring	- -	8/23/62
Minidoka	Blaine	- -	U.S. Bureau of Reclamation	9/25/62
Butte	National Reactor Test Site	T. 4 N., R. 30 E., sec. 22, NW1/4 SE1/4, well no. 17	U.S. Government	12/3/62
Butte	National Reactor Test Site	T. 3 N., R. 29 E., sec. 19, SW1/4 NW1/4, well no. 22	U.S. Government	11/26/62
Butte	National Reactor Test Site	T. 6 N., R. 31 E., sec. 13, SE1/4 NW1/4, well no. 24	U.S. Geological Survey and Atomic Energy Commission	12/3/62
Butte	National Reactor Test Site	T. 6 N., R. 31 E., sec. 27, NE1/4 NW1/4, well no. 7	U.S. Geological Survey	11/28/62
--	- -	T. 9 S., R. 14 E., sec. 2, NE1/4, Clear Lake Spring, Nihart Monument	Idaho Power Company	8/23/62
Butte	National Reactor Test Site	T. 4 N., R. 30 E., sec. 7, U.S. Geological Survey well no. 7	U.S. Geological Survey and Atomic Energy Commission	12/3/62
Bingham	National Reactor Test Site	T. 1 S., R. 30 E., sec. 15, NW1/4 SW1/4, well no. 19	U.S. Geological Survey and Atomic Energy Commission	12/3/62
Butte	Howe	T. 5 N., R. 29 E., sec. 23, SW1/4 SE1/4, well no. 19	U.S. Geological Survey	12/11/62
Butte	National Reactor Test Side	T. 2 N., R. 28 E., sec. 35, NE1/4 SE1/4, well no. 9	- -	12/6/62
Butte	National Reactor Test Site	T. 4 N., R. 31 E., sec. 16, NE1/4SE1/4;. U.S. Geological Survey well no. 6	U.S. Geological Survey	12/31/62
Gooding	Hagerman	T. 8 S., R. 14 E., sec. 8, SE1/4, 6 mi. S. of Hagerman, Thousand Springs outlet	Idaho Power Company	8/23/62
Owyhee	Mountain Home	55 mi S. of Mountain Home	Atomic Energy Commission, Las Vegas, Nevada	7/4/63
Owyhee	Mountain Home	55 mi S. of Mountain Home	Atomic Energy Commission,	7/13/63
Owyhee	Mountain Home	70 mi S. of Mountain Home	Atomic Energy Commission	8/6/63
Owyhee	Bruneau	S. of Bruneau	Atomic Energy Commission, Mercury, Nevada	9/1/63
ILLINOIS				
Winnebago	Rockford	4 wells, Rockford	City of Rockford	8/23/61
INDIANA				
Crawford	English	Rock well	- -	10/16/58
Crawford	English	Rock well (dam)	- -	10/16/58
Crawford	English	Rock well	- -	10/28/58
Crawford	English	Rock well (dam)	- -	10/16/58
Crawford	English	Rock well	- -	10/28/58

data for selected ground-water samples--Continued

Time (24 hour)	Water-yielding unit	Depth of well (ft)	Temp (°C)	Gross alpha; U-natural (µg/L)	Gross beta; Sr-90/Y-90 (pCi/L)	Radium-226 planchet (pCi/L)	U-natural; direct fluor. (µg/L)
--	--	--	--	< 5	< 23	< 0.1	3.2
--	--	--	--	3	< 8	< 0.1	2.2
--	--	--	--	< 3	< 7	< 0.1	2.0
--	--	--	--	< 4	< 11	< 0.1	3.4
--	--	--	--	< 4	< 11	< 0.1	2.9
--	Silicic volcanic rock	--	--	1 ± 0.8	6 ± 1	0.1 ± 0.1	0.9 ± 0.1
--	--	--	--	< 5	< 17	0.2	2.5
--	--	--	--	< 3	< 8	0.1	1.7
--	Idavada Volcanics, Silica volcanic rock	682	21.5	--	8 ± 1	0.1 ± 0.1	1.0 ± 0.2
--	Idavada Volcanics, Silica volcanic rock	375	24	--	23 ± 3	< 0.1	1.8 ± 0.2
--	Snake River Group	--	26	--	8.0 ± 1.2	< 0.1	3.1 ± 0.3
--	Basalt	435	13.5	--	5.2 ± 0.8	< 0.1	2.0 ± 0.4
--	Basalt	497	11	--	--	--	0.8 ± 0.4
--	--	658	12	--	--	--	< 0.4
--	--	326	9.5	--	--	--	< 0.4
--	--	1200	14.5	--	--	--	< 0.4
--	Snake River Group	--	14	--	4.3 ± 0.6	< 0.1	2.0 ± 0.2
--	--	634	11.5	--	--	--	< 0.4
--	--	752	15	--	--	--	1.6 ± 0.4
--	--	401	--	--	--	--	1.3 ± 0.4
--	Basalt	654	11	--	--	--	< 0.4
--	--	620	--	--	--	--	< 0.4
--	Snake River Group	--	14.5	--	6.5 ± 0.9	< 0.1	2.0 ± 0.2
--	Idavada Volcanics	1039	--	--	15.0 ± 2.0	< 0.1	7.5 ± 0.8
--	Idavada Volcanics	1400	39	--	7.5 ± 1.1	1.4 ± 0.3	1.2 ± 0.4
--	Idavada Volcanics	1400	43.5	--	12 ± 2	0.6 ± 0.1	8.8 ± 0.9
--	Rhyolitic, Latite & Dacite	1400	47	--	6 ± 1	1.1 ± 0.2	5.1 ± 0.5
--	--	--	14.5	--	7.3 ± 1.1	2.5 ± 0.5	0.6 ± 0.1
--	--	--	--	--	60	4.9	0.2 ± 0.1
--	--	--	--	--	< 53	1.8	0.1 ± 0.1
--	--	--	--	38 ± 28	< 158	11.0 ± 1.6	0.5 ± 0.1
--	--	--	--	--	< 78	2.5	0.1 ± 0.1
--	--	--	--	14 ± 9	< 97	1.4 ± 0.3	0.1 ± 0.1

Table 1.-- *Sample-site data and radiochemical*

County	Nearest community	Location of point of collection	Owner or operator	Date sampled
INDIANA (cont.)				
Crawford	English	Rock well	--	e. 10/58
Wabash	Richvalley	T. 27 N., R. 5 E., sec. 23, NE1/4	Marde Baranell	6/17/59
Adams	Berne	T. 25 N., R. 15 E., sec. 4, NE1/4	--	6/10/59
Jefferson	Madison	T. 4 N., R. 10 W., sec. 35, NW1/4, NE1/4	--	6/22/59
Huntington	Warren	T. 26 N., R. 10 E., sec. 19, NE1/4	--	6/17/59
Lake	Gary	T. 36 N., R. 9 W., sec. 24, NW1/4	--	6/11/59
Miami	Peru	T. 27 N., R. 4 E., sec. 21, SE1/4	--	6/8/59
Dearborn	Dillsboro	T. 5 N., R. 3 W., sec. 12, SW1/4	--	6/30/59
Vermillion	Newport	3 mi SW. of Newport	--	5/22/60
St. Joseph	South Bend	Coquillard Well, tap in pump house	Municipal	4/5/62
St. Joseph	South Bend	Oliver Well no. 1, Oliver Pumping Station	Municipal	4/5/62
St. Joseph	South Bend	Pin Hook Well no. 3, 1 of 4, tap in pump house	Municipal	4/5/62
St Joseph	South Bend	Wells no. 5 and no. 7, tap in North station pump house	Municipal	4/4/62
Lake	East Chicago	T. 37 N., R. 9 W., sec. 32, NE1/4	--	6/12/59
IOWA				
Story	Nevada	Nevada	--	e. 05/54
Clinton	Clinton	Clinton	--	e. 05/54
Jasper	Monroe	2.5 mi W. of Monroe	--	e. 05/55
Delaware	Edgewood	Edgewood	--	e. 05/55
Clayton	Millville	Millville	--	e. 05/55
Carroll	Breda	Breda	--	e. 05/55
Calhoun	Manson	Manson	--	e. 12/55
Poweshiek	Malcom	10 mi N. and 0.5 mi W. of Malcom	--	e. 11/55
Marshall	Ferguson	Ferguson	--	e. 04/57
Jefferson	Glasgow	Glasgow	--	e. 04/57
Cerro Gordo	Thornton	Thornton	--	3/13/58
Madison	Earlham	Earlham	--	3/11/58
Jackson	Maquoketa	Maquoketa	--	3/12/58
Black Hawk	La Porte City	La Porte City	--	3/12/58
Polk	Grimes	Grimes	--	3/11/58
Lucas	Russell	Russell	--	3/12/58
Louisa	Morning Sun	Morning Sun	--	3/11/58
Allamakee	Postville	Postville	--	3/12/58
Adair	Adair	Adair	--	3/11/58
Ida	Holstein	Holstein	--	3/13/58
Story	Nevada	Nevada	--	7/22/58
Story	Nevada	Nevada	--	7/22/58
Marshall	State Center	State Center	--	7/22/58
Warren	Indianola	Indianola	--	7/22/58
Louisa	Morning Sun	Morning Sun	--	7/24/58
Clinton	Clinton	Clinton	--	7/30/58
Washington	Crawfordsville	Crawfordsville, tap at Menefee res.	The Menefee's	8/16/59
Grundy	Wellsburg	T. 88 N., R. 18 W., sec. 14, NW1/4	--	1/15/60
Clinton	Wheatland	T. 81 N., R. 1 E., sec. 10, NW1/4	--	1/8/60
Poweshiek	Grinnell	T. 80 N., R. 16 W., sec. 16, NW1/4	--	1/22/60
Washington	Wellman	T. 77 N., R. 9 W., sec. 24, NE1/4	--	1/21/60
Jefferson	Fairfield	T. 72 N., R. 10 W., sec. 24, SE1/4	--	1/21/60
Linn	Marion	T. 83 N., R. 6 W., sec. 6, NE1/4	--	1/25/60

data for selected ground-water samples--Continued

Time (24 hour)	Water-yielding unit	Depth of well (ft)	Temp (°C)	Gross alpha; U-natural (µg/L)	Gross beta; Sr-90/Y-90 (pCi/L)	Radium-226 planchet (pCi/L)	U-natural; direct fluor. (µg/L)
--	--	--	--	--	< 52	4	. ± 0.1
--	Limestone	856-864	--	320 ± 200	260 ± 130	100 ± 20	0.1 ± 0.1
--	Limestone	--	--	1100 ± 700	960 ± 520	690 ± 140	0.1 ± 0.1
--	Limestone	--	--	19 ± 15	47 ± 15	4 ± 1	0.2 ± 0.1
--	Limestone	--	--	430 ± 230	140 ± 100	150 ± 30	0.1 ± 0.1
--	Sandy dolomite	--	--	91 ± 47	130 ± 20	21 ± 4	0.1 ± 0.1
--	Limestone	--	--	240 ± 160	220 ± 80	47 ± 9	0.3 ± 0.1
--	Trenton Limestone	--	--	64 ± 49	138 ± 70	15 ± 3	< 0.1
--	--	--	--	1500 ± 1000	2200 ± 300	620 ± 120	0.6 ± 0.1
--	--	--	12	--	4.7 ± 0.7	0.3 ± 0.1	0.2 ± 0.1
--	--	--	12	--	7 ± 1	< 0.1	1.7 ± 0.2
--	--	--	12	--	6.7 ± 1.0	0.1 ± 0.1	0.2 ± 0.1
--	--	--	12	--	10.0 ± 1.0	0.1 ± 0.1	0.3 ± 0.1
--	--	--	--	< 11	120.0 ± 20.0	17.0 ± 3.0	0.4 ± 0.1
--	--	--	--	--	53	4.1	0.3
--	--	--	--	--	6	< 0.1	0.2
--	--	--	--	--	< 23	1.6	< 0.1
--	--	--	--	--	< 17	0.7	0.1
--	--	--	--	--	< 23	0.2	0.9
--	--	--	--	--	< 7	1.0	6.2
--	--	--	--	--	< 19	0.3	0.3
--	--	--	--	--	< 45	0.2	0.1
--	--	--	--	--	< 68	2.7	1.3
--	--	--	--	--	< 85	0.8	0.1
--	--	--	--	8.3	< 23	1.6	0.3
--	--	--	--	< 23	< 84	1.6	0.3
--	--	--	--	25	< 17	2.9	0.4
--	--	--	--	< 8	< 23	0.4	< 0.1
--	--	--	--	< 5	< 17	0.3	< 0.1
--	--	--	--	16	< 34	4.3	0.5
--	--	--	--	49	57	8.6	< 0.1
--	--	--	--	8.9	< 17	1.6	0.4
--	--	--	--	27	110	2.5	0.5
--	--	--	--	53	< 57	6.8	3.0
--	--	--	--	29	94	7.8	0.5 ± 0.1
--	--	--	--	23	51	4.4	0.4 ± 0.1
--	--	--	--	48	< 43	7.2	0.6 ± 0.1
--	--	--	--	58	50	7.0	0.4 ± 0.1
--	--	--	--	67	< 67	8.9	0.1 ± 0.1
--	--	--	--	--	47	5.3	0.2 ± 0.1
--	--	--	--	15 ± 9	32 ± 7	1.9 ± 0.4	0.5 ± 0.1
--	--	--	--	18 ± 10	45 ± 7	5.6 ± 1.1	0.9 ± 0.1
--	--	--	--	15 ± 9	24 ± 4	2.1 ± 0.4	0.5 ± 0.1
--	--	--	--	14 ± 9	33 ± 5	3.7 ± 0.7	0.6 ± 0.1
--	--	--	--	19 ± 11	45 ± 7	5.2 ± 1.0	0.5 ± 0.1
--	--	--	--	27 ± 18	28 ± 4	13 ± 2	1.6 ± 0.2
--	--	--	--	15 ± 8	31 ± 5	4.0 ± 0.8	0.5 ± 0.1

Table 1.-- *Sample-site data and radiochemical*

County	Nearest community	Location of point of collection	Owner or operator	Date sampled
IOWA (cont.)				
Cerro Gordo	Mason City	T. 96 N., R. 20 W., sec. 3, NW1/4, tap 10 ft from pump	Mason City	3/3/60
Fayette	Oelwein	T. 91 N., R. 9 W., sec. 22, SW1/4, 10 ft from pump	City of Oelwein	3/14/60
Henry	Mt. Pleasant	Mt. Pleasant	--	4/27/60
Tama	--	--	--	5/2/60
Howard	Cresco	T. 99 N., R. 11 W., sec. 26, NE1/4 NE1/4	--	12/1/60
Greene	Jefferson	T. 83 N., R. 30 W., sec. 8, SW1/4 NW1/4NW1/4	--	12/8/60
Webster	Ft. Dodge	T. 89 N., R. 28 W., sec. 19, SW1/4 SE1/4NE1/4	--	12/6/60
Kossuth	Algona	T. 95 N., R. 29 W., sec. 2, SW1/4 SE1/4, well no. 4, tap 10 ft from pump	City of Algona	12/7/60
Henry	New London	T. 71 N., R. 5 W., sec. 25, SW1/4	City of New London	2/23/61
Polk	Des Moines	Testing tap	Municipal	1/22/62
KANSAS				
Greeley	Bethany	Bethany	--	e. 06/54
Crawford	Girard	Girard	--	e. 06/54
Rice	Bushton	Bushton	--	e. 06/54
Sedgwick	Wichita	Wichita	--	e. 06/54
Graham	Bogue	7.5 mi W. and 2.5 mi E. of Bogue	--	e. 12/54
Meade	Fowler	Fowler, well no. 2	--	e. 12/54
Lane	Dighton	Dighton, well no. 7	--	e. 12/54
Phillips	Agra	Agra, well no. 3	--	e. 01/55
Lyon	Allen	Allen	--	e. 11/55
Marshall	Summerfield	Summerfield	--	e. 11/55
Washington	Mahaska	Mahaska	--	e. 11/55
Russell	Paradise	Paradise	--	e. 11/55
Dickinson	Hope	Hope	--	e. 02/57
Clay	Longford	Longford	--	e. 02/57
Clay	Green	Green	--	e. 02/57
Wabaunsee	Eskridge	Eskridge	--	3/19/58
Dickinson	Herington	Herington	--	3/20/58
Sedgwick	Cheney	Cheney	--	3/20/58
McPherson	McPherson	McPherson	--	3/20/58
Douglas	Baldwin City	Baldwin City	--	3/19/58

data for selected ground-water samples--Continued

Time (24 hour)	Water-yielding unit	Depth of well (ft)	Temp (°C)	Gross alpha; U-natural (µg/L)	Gross beta; Sr-90/Y-90 (pCi/L)	Radium-226 planchet (pCi/L)	U-natural; direct fluor. (µg/L)
--	Prairie du Chien Group, Jordan Sandstone & St. Lawrence Member of Trempealeau Formation	1220	12	16 ± 8	32 ± 5	5.8 ± 1.2	0.4 ± 0.1
--	Prairie du Chien Group, Jordan Sandstone & St. Lawrence Member of Trempealeau Formation	1417	--	6.8 ± 4.7	20 ± 3	2.6 ± 0.5	0.4 ± 0.1
--	--	--	--	46 ± 25	50 ± 8	14 ± 3	1.1 ± 0.1
--	--	--	19	< 4	26 ± 4	4.7 ± 0.9	0.7 ± 0.1
--	Jordan Sandstone and St. Lawrence Member of Trempealeau Formation	--	9.5	6 ± 3	12 ± 2	0.7 ± 0.1	4.9 ± 0.5
--	Jordan Sandstone and St. Lawrence Member of Trempealeau Formation	--	15.5	< 5	32 ± 4	3.6 ± 0.7	< 0.1
--	Jordan Sandstone and St. Lawrence Member of Trempealeau Formation	--	15.5	29 ± 13	51 ± 8	7.6 ± 1.5	0.5 ± 0.1
--	Jordan Sandstone	1885	11	< 4	24 ± 4	2.9 ± 0.6	0.3 ± 0.1
--		1170	13	< 51	14 ± 2	0.9 ± 0.2	0.8 ± 0.1
--	--	--	6	--	5.6 ± 0.8	< 0.1	1.9 ± 0.2
--	--	--	--	--	19	0.2	13
--	--	--	--	--	< 34	8.9	0.5
--	--	--	--	--	< 7	1.2	2.9
--	--	--	--	--	< 8	0.4	1.0
--	--	--	--	--	< 23	2.3	7.6
--	--	--	--	--	< 11	0.2	5.5
--	--	--	--	--	< 17	0.4	11
--	--	--	--	--	17	1.6	8.2
--	--	--	--	--	< 45	0.2	4.5
--	--	--	--	--	< 45	0.1	33
--	--	--	--	--	< 68	2.7	0.1
--	--	--	--	--	< 45	0.5	74
--	--	--	--	--	< 68	0.2	1.4
--	--	--	--	--	< 7	1.8	2.1
--	--	--	--	--	< 23	0.4	2.1
--	--	--	--	< 15	< 45	0.1	2.2
--	--	--	--	< 19	< 57	0.4	2.5
--	--	--	--	< 5	< 14	0.7	0.5
--	--	--	--	< 6	< 23	0.1	1.3
--	--	--	--	< 3	< 7	0.4	< 0.1

Table 1.-- *Sample-site data and radiochemical*

County	Nearest community	Location of point of collection	Owner or operator	Date sampled
KANSAS (cont.)				
Leavenworth	Tonganoxie	Tonganoxie	- -	3/19/58
Marion	Florence	Florence	- -	3/20/58
Osage	Overbrook	Overbrook	- -	3/19/58
Cherokee	Treece	T. 35 S., R. 23 E., sec. 13, NW1/4	- -	2/17/59
Cherokee	West Mineral	T. 32 S., R. 23 E., sec. 6, SE1/4	- -	2/17/59
Crawford	Pittsburg	T. 30 S., R. 25 E., sec. 19, SE1/4, Well No. 3	- -	2/16/59
Crawford	McCune	T. 31 S., R. 22 E., sec. 17, NE1/4	- -	2/17/59
Cherokee	Weir	T. 31 S., R. 24 E., sec. 27, SE1/4	- -	2/16/59
Cherokee	Columbus	T. 33 S., R. 23 E., sec. 13, NW1/4	- -	2/17/59
Crawford	Walnut	T. 29 S., R. 21 E., sec. 14, SE1/4, S. of Walnut	- -	2/16/59
Crawford	Girard	T. 29 S., R. 23 E., sec. 24, SE1/4	- -	2/16/59
Crawford	Cherokee	T. 31 S., R. 24 E., sec. 18, SE1/4	- -	2/16/59
Cherokee	Baxter Springs	T. 34 S., R. 24 E., sec. 36, SE1/4	- -	2/17/59
Crawford	Walnut	T. 28 S., R. 22 E., sec. 20, SW1/4	- -	2/16/59
Cherokee	Pittsburg	T. 32 S., R. 25 E., sec. 31, NE1/4, S. of Pittsburg	- -	2/17/59
Crawford	Arcadia	T. 28 S., R. 25 E., sec. 1, SW1/4	- -	2/16/59
Cherokee	Galena	T. 34 S., R. 25 E., sec. 24, NW1/4	- -	2/17/59
Crawford	Frontenac	T. 30 S., R. 25 E., sec. 4, SW1/4	- -	2/16/59
Crawford	Arma	T. 29 S., R. 25 E., sec. 5, SW1/4	- -	2/16/59
Stanton	Johnson	T. 27 S., R. 39 W., sec. 13, NE1/4, 20 mi NE. of Johnson	- -	4/3/59
Sedgwick	Wichita	Finished water from water plant	City of Wichita	2/13/62
Grant	Ulysses	T. 28 S., R. 38 W., sec. 7, NE1/4, NW1/4	Dale H. Williams	7/14/62
Hamilton	- -	T. 23 S., R. 43 W., sec. 21, NE1/4 NW1/4SW1/4	C. R. Huser	8/3/64
LOUISIANA				
Parish				
Rapides	Alexandria Bayou	Alexandria	City of Alexandria	e. 05/54
Ouachita	Monroe	West Monroe	- -	e. 05/54
Lincoln	Ruston	Ruston	- -	e. 05/55
Vernon	Leesville	Leesville	- -	e. 05/55
De Soto	Mansfield	Mansfield	- -	e. 05/55
Beauregard	De Ridder	De Ridder	- -	e. 05/55
Rapides	Boyce	Boyce	- -	e. 11/55
Bossier	Benton	Benton	- -	e. 11/55
Natchitoches	Natchitoches	Natchitosches	- -	e. 02/57
Tangipahoa	Hammond	Hammond	- -	e. 02/57
Vernon	Leesville	Leesville	- -	e. 03/58
Rapides	Pineville	Pineville	- -	e. 03/58
Rapides	Alexandria	Alexandria		2/7/58
Morehouse	Bastrop	Bastrop	- -	2/6/58
Bossier	- -	T. 22 N., R. 14 W., sec. 13, SW1/4, NW1/4	- -	e. 02/58
Calcasiue	Lake Charles	Lake Charles	- -	e. 02/58
Washington	Franklinton	Franklinton	- -	2/26/58
East Feliciana	Slaughter	Slaughter	- -	2/26/58
West Baton Rouge	Port Allen	Port Allen	- -	2/26/58
Washington	Franklinton	Franklinton	- -	2/26/58

data for selected ground-water samples--Continued

Time (24 hour)	Water-yielding unit	Depth of well (ft)	Temp (°C)	Gross alpha; U-natural (µg/L)	Gross beta; Sr-90/Y-90 (pCi/L)	Radium-226 planchet (pCi/L)	U-natural; direct fluor. (µg/L)
--	--	--	--	< 5	< 12	0.5	0.5
--	--	--	--	< 5	< 17	0.2	2.3
--	--	--	--	< 8	< 34	2.1	0.6
--	Roubidoux Formation	--	--	19 ± 10	30 ± 4	4.1 ± 0.8	0.1 ± 0.1
--	Roubidoux Formation	--	--	16 ± 10	46 ± 7	6.0 ± 1.2	0.1 ± 0.1
--	Roubidoux Formation	--	--	7 ± 5	20 ± 3	3.0 ± 0.6	< 0.1
--	Roubidoux Formation	--	--	29 ± 15	47 ± 7	5.9 ± 1.2	0.1 ± 0.1
--	Roubidoux Formation	--	--	7.2 ± 4.7	18 ± 3	1.3 ± 0.3	0.1 ± 0.1
--	Roubidoux Formation	--	--	20 ± 10	30 ± 4	2.8 ± 0.6	0.1 ± 0.1
--	Swan Creek sandstone	--	--	12 ± 9	44 ± 7	4.8 ± 0.8	0.1 ± 0.1
--	Roubidoux Formation	--	--	59 ± 28	82 ± 12	17 ± 3	< 0.1
--	Roubidoux Formation	--	--	9.2 ± 5.8	19 ± 3	2.5 ± 0.5	0.4 ± 0.1
--	Roubidoux Formation	--	--	8.7 ± 4.6	11 ± 2	2.9 ± 0.6	0.2 ± 0.1
--	Swan Creek sandstone	--	--	36 ± 19	62 ± 9	< 0.1	0.1 ± 0.1
--	Swan Creek sandstone	--	--	9.4 ± 5.1	17 ± 3	1.5 ± 0.3	0.3 ± 0.1
--	Roubidoux Formation	--	--	25 ± 15	34 ± 5	4.8 ± 1.0	< 0.1
--	Roubidoux Formation	--	--	4.4 ± 2.7	8.3 ± 1.2	1.4 ± 0.3	1.3 ± 0.1
--	Roubidoux Formation	--	--	11 ± 7	17 ± 3	3.2 ± 0.6	< 0.1
--	Roubidoux Formation	--	--	13 ± 9	25 ± 4	6.4 ± 1.3	< 0.1
--	Dakota Sandstone and Cheyenne Sandstone	--	--	11 ± 7	35 ± 5	1.2 ± 0.2	16 ± 2
--	--	--	--	--	5 ± 1	< 0.1	0.5 ± 0.1
--	Cretaceous rock, undivided	624	19.5	--	8 ± 1	0.5 ± 0.1	5.9 ± 0.6
--	Quaternary valley fill	--	14.5	--	--	--	44 ± 4
--	--	--	--	--	< 14	< 0.1	< 0.1
--	--	--	--	--	< 14	0.2	0.5
--	--	--	--	--	< 8	< 0.1	< 0.1
--	--	--	--	--	< 5	0.2	0.1
--	--	--	--	--	28	0.5	< 0.1
--	--	--	--	--	< 5	0.1	0.1
--	--	--	--	--	< 3400	43	0.2
--	--	--	--	--	< 68	0.2	0.2
--	--	--	--	--	< 34	0.1	< 0.1
--	--	--	--	--	< 8	0.1	0.1
--	--	--	--	4.8	< 8	0.9	0.2
--	--	--	--	< 3	11	0.1	0.3
--	--	--	--	< 5	< 25	0.6	0.2
--	--	--	--	< 7	< 34	< 0.1	< 0.1
--	--	--	--	2	< 8	0.2	0.2
--	--	--	--	< 2	< 11	0.3	< 0.1
--	--	--	--	< 3	< 13	0.1	0.1
--	--	--	--	< 2	< 8	< 0.1	< 0.1
--	--	--	--	< 4	< 12	< 0.1	0.2
--	--	--	--	2.5	8	0.2	0.3

Table 1.-- *Sample-site data and radiochemical*

County	Nearest community	Location of point of collection	Owner or operator	Date sampled
LOUISIANA (cont.)				
La Salle	Urania	T. 10 N., R. 2 E., sec. 18, NE1/4	- -	1/23/59
Orleans	New Orleans	Algiers treatment plant, finished water	City of New Orleans	7/21/61
Caddo	Shreveport	McNeill Street treatment plant	City of Shreveport	7/27/61
Caddo	Kealdie	T. 14 N., R. 15 W., sec. 5, SW1/4, 3 mi NW. of Kealdie	- -	1/23/59
Orleans	New Orleans	Carrolton Street treatment plant, finished water	City of New Orleans	7/21/61
MAINE				
Cumberland	Raymond	Raymond	- -	8/4/58
Cumberland	North Windham	North Windham	- -	8/4/58
Cumberland	Raymond	Raymond	- -	8/4/58
Cumberland	Raymond	Raymond	- -	8/4/58
Cumberland	Raymond	Raymond	- -	8/4/58
MARYLAND				
Washington	Sharpsburg	Tap	- -	4/29/59
Washington	Sharpsburg	Pump	- -	4/29/59
Washington	Sharpsburg	Pump	- -	4/29/59
Washington	Sharpsburg	Tap	- -	4/29/59
Washington	Sharpsburg	Pump	- -	4/30/59
Washington	Sharpsburg	Spring	Town of Sharpsburg	4/29/59
Washington	Sharpsburg	Tap from spring	- -	4/30/59
MICHIGAN				
Chippewa	Brimley	T. 46 N., R. 2 W., sec. 8, NE1/4	- -	4/7/59
Chippewa	Sault St. Marie	T. 47 N., R. 1 E., sec. 21, NE1/4	- -	4/7/59
Marquette	Big Bay	T. 51 N., R. 27 W., sec.15, NW1/4, SE 1/4	- -	4/10/59
Marquette	Negaunee	T. 47 N., R. 24 W., sec. 24, NW1/4 kitchen tap	- -	4/9/59
Alger	Munising	T. 46 N., R. 19 W., sec. 3, SE1/4, SE1/4	- -	4/9/59
Allegan	Holland	T. 4 N., R. 14 W., sec. 15, NE1/4	- -	6/15/59
Manistee	Manistee	T. 27 N., R. 17 W., sec. 25, SW1/4, 5 mi S. of Manistee	- -	6/16/59
Gratiot	St. Louis	T. 12 N., R. 3 W., sec. 24, NW1/4 SW1/4, NW. of St. Louis	- -	6/18/59
Marquette	Negaunee	T. 47 N., R. 26 W., sec. 6, SW1/4, Bunker Hill Mine	- -	1/13/60
Houghton	Painesdale	T. 54 N., R. 34 W., sec. 31, NW1/4	- -	1/13/60
MINNESOTA				
Hennepin	Minneapolis	Minneapolis, Dayton Company, no. 3	Dayton Company	e. 10/54
Olmsted	Rochester	Franklin Station, S. well	- -	e. 10/54
Ramsey	St. Paul	Great Northern Railway well no. 2	- -	e. 10/54
Hennepin	Wayzeta	Hennepin County well no. 4	- -	e. 10/54
Itasca	Grand Rapids	T. 55 N., R. 25 W., sec. 17	- -	e. 10/54
Lyon	Marshall	Marshall Post Office	- -	e. 11/55
Meeker	Watkins	Village of Watkins	- -	e. 11/55
Nobles	Worthington	Worthington	- -	e. 11/55

data for selected ground-water samples--Continued

Time (24 hour)	Water-yielding unit	Depth of well (ft)	Temp (°C)	Gross alpha; U-natural (µg/L)	Gross beta; Sr-90/Y-90 (pCi/L)	Radium-226 planchet (pCi/L)	U-natural; direct fluor. (µg/L)
--	Cockfield Formation in Claiborne Group	320	--	< 4.5	72.0 ± 4.2	2.8 ± 0.6	0.6 ± 0.1
--	--	--	--	< 5.1	6.2 ± 0.9	< 0.1	0.2 ± 0.1
--	--	--	--	< 3.7	5.7 ± 0.9	< 0.1	< 0.1
--	Wilcox Group	115	--	< 0.4	1.5 ± 0.5	< 0.1	0.1 ± 0.1
--	--	--	--	< 4.4	6.3 ± 0.9	0.1 ± 0.1	< 0.1
--	--	--	--	2.9	< 8	< 0.1	0.2 ± 0.1
--	--	--	--	< 1	< 7	0.1	1.0 ± 0.1
--	--	--	--	48	110	1	34 ± 3
--	--	--	--	550	660	52	960 ± 96
--	--	--	--	110	54	0.1	110 ± 11
--	Elbrook Limestone	--	--	< 3	< 4.2	0.6 ± 0.1	4.3 ± 0.4
--	Conococheague Limestone	--	--	< 5	6.6 ± 2.6	0.3 ± 0.1	3.7 ± 0.4
--	Conococheague Limestone	--	--	< 3	19.0 ± 4.2	0.3 ± 0.1	4.3 ± 0.4
--	Elbrook Limestone	--	--	< 4	4.0 ± 2.6	0.4 ± 0.1	3.2 ± 0.3
--	Conococheague Limestone	--	--	< 3	15.0 ± 4.2	0.2 ± 0.1	4.1 ± 0.4
--	Conococheague Limestone	--	--	< 2	6.6 ± 4.2	0.3 ± 0.1	2.9 ± 0.3
--	Conococheague Limestone	--	--	< 2	< 4.2	0.2 ± 0.1	3.5 ± 0.4
--	Sandstone	365-405	--	34 ± 16	49 ± 7	0.8 ± 0.2	39 ± 4
--	Cambrian rocks, undivided	114-230	--	550 ± 220	440 ± 70	80 ± 16	5.8 ± 0.6
--	Jacobsville Sandstone	50-150	--	6.9 ± 3.9	8.0 ± 1.2	2.8 ± 0.6	< 0.1
--	Jacobsville Sandstone	--	--	1.6 ± 0.8	4.0 ± 0.6	0.2 ± 0.1	1.0 ± 0.1
--	Jacobsville Sandstone	--	--	2.2 ± 1.7	4.5 ± 0.6	0.3 ± 0.1	1.7 ± 0.2
--	Salina Formation	2108	--	2100 ± 1800	4100 ± 600	1000 ± 200	0.2 ± 0.1
--	Sylvania Sandstone Group	2526-2599	--	< 2400	5200 ± 1600	280 ± 60	0.2 ± 0.1
--	Traverse Group and Dundee Formations	2917-3458	--	< 1700	4100 ± 600	1200 ± 200	0.1 ± 0.1
	--	--	--	35 ± 17	16 ± 2	0.1 ± 0.1	2.6 ± 0.3
--	--	--	--	< 3.1	4.3 ± 0.6	< 0.1	0.1 ± 0.1
--	--	--	--	--	< 17	1.6	1.2
--	--	--	--	--	< 17	1.1	1.6
--	--	--	--	--	< 8	2.1	< 0.1
--	--	--	--	--	< 17	0.8	0.1
--	--	--	--	--	< 14	2.6	0.2
--	--	--	--	--	< 85	1.2	0.2
--	--	--	--	--	< 17	0.3	0.7
--	--	--	--	--	< 34	0.3	6.9

Table 1.-- *Sample-site data and radiochemical*

County	Nearest community	Location of point of collection	Owner or operator	Date sampled
MINNESOTA (cont.)				
Redwood	Wanda	T. 110 N., R. 36 W., sec. 19, SE1/4	Village of Wanda	3/27/57
Murray	Fulda	T. 105 N., R. 40 W., sec. 25, NW1/4	Village of Fulda	3/27/57
Lake	Two Harbors	T. 54 N., R. 9 W., sec. 27, NW1/4	Division of State Parks, Department of Conservation	5/14/57
Lyon	Tracy	T. 109 N., R. 40 W., sec. 23, NE1/4 well no. 3	NSP Co.	8/20/57
Yellow Medicine	Hanley Falls	Hanley Falls	- -	2/10/58
Redwood	Milroy	Milroy	- -	2/11/58
Lyon	Minneota	Minneota	- -	2/11/58
Lyon	Lynd	Camden State Park	- -	2/11/58
Lyon	Marshall	T. 111 N., R. 41 W., sec. 8	- -	12/13/58
Nobles	Adrian	Adrian	- -	6/10/58
Nobles	Round Lake	Round Lake	- -	6/10/58
Nobles	Worthington	Worthington	- -	6/10/58
Mower	Austin	T. 130 N., R. 18 W., sec. 26, SE1/4, spring, Todd Park	City of Austin	12/9/60
Nobles	Rushmore	Rushmore	- -	6/10/58
Nobles	Worthing	Worthington	- -	6/10/58
Freeborn	Albert Lea	T. 102 N., R. 21 W., sec. 9, SW1/4, well no. 3	City of Albert Lea	12/9/60
Freeborn	Albert Lea	T. 102 N., R. 21 W., sec. 9, SW1/4, well no. 2	City of Albert Lea	12/9/60
Faribault	Wells	T. 103 N., R. 24 W., sec. 9, SW1/4	City of Wells	12/8/60
Mower	Austin	T. 103 N., R. 18 W., sec. 26, SE1/4, Todd Park	City of Austin	12/9/60
Faribault	Blue Earth	T. 102 N., R. 27 W., sec. 17, NW1/4	Blue Earth Co-op Creamery	12/8/60
Ramsey	St. Paul	McCarron Station Water Plant, finished water	- -	7/31/61
Hennepin	Minneapolis	Minneapolis, finished water	City of Minneapolis	7/31/61
Hennepin	Minneapolis	Minneapolis, finished water	City of Minneapolis	7/31/61
Rock	Hardwick	T. 104 N., R. 45 W., Sec. 35, NW1/4 NW1/4NE1/4, Hardwick	- -	e. 11/58
Murray	Fulda	T. 105 N., R. 40 W. sec 25, NW1/4	- -	e. 11/58
Pipestone	Pipestone	T. 106 N., R. 46 W., sec. 1, NW1/4 NE1/4SE1/4, N. Pipestone, well no. 4	- -	e. 11/58
MISSISSIPPI				
Chickasaw	Houston	Houston	- -	e. 12/54
Lafayette	Oxford	City well no. 2	- -	e. 12/54
Rankin	Brandon	7 mi SE. of Brandon	- -	e. 12/54
Itawamba	Fulton	City well no. 3	- -	e. 12/54
Washington	- -	- -	- -	e. 12/55
Covington	Collins	Collines	- -	e. 12/55
Jefferson Davis	Prentiss	Prentiss	- -	e. 12/55
Lauderdale	Meridian	Meridian	- -	e. 12/55
Jackson	Pascagoula	Pascagoula	- -	6/9/58
Lee	Nettleton	Nettleton	- -	6/18/58
Lamar	Purvis	T. 2 N., R. 16 W., sec. 12, 9 mi W. of Purvis, observation well	- -	4/17/61

data for selected ground-water samples--Continued

Time (24 hour)	Water-yielding unit	Depth of well (ft)	Temp (°C)	Gross alpha; U-natural (µg/L)	Gross beta; Sr-90/Y-90 (pCi/L)	Radium-226 planchet (pCi/L)	U-natural; direct fluor. (µg/L)
--	Cretaceous sandstone	190	10	< 1	< 45	0.2	0.4
--	Precambrian crystalline rocks	1300	10.5	51	< 85	3.5	8.9
--	Keweenawan Super Group	501	6.5	--	< 100	< 0.1	< 0.1
--	Cretaceous sandstone	638	13.5	--	< 50	0.9	0.3
--	--	--	--	< 6	< 38	0.2	< 0.1
--	--	--	--	< 12	< 67	0.8	0.1
--	--	--	--	< 11	< 76	0.1	0.1
--	--	--	--	--	< 67	0.1	0.7
--	--	--	--	--	< 45	0.2	0.7
--	--	--	--	13	32	< 0.1	21.0 ± 2.1
--	--	--	--	< 35	< 84	0.2	12.0 ± 1.2
--	--	--	--	< 8	< 27	0.2	9.9 ± 1.0
--	Cedar Valley Limestone	60	8.5	< 1.8	3.4 ± 0.5	0.3 ± 0.1	1.1 ± 0.1
--	--	--	--	< 26	< 76	0.7	2.4 ± 0.2
--	--	--	--	< 20	< 57	0.3	9.3 ± 0.9
--	Limestone	700	9.5	< 2.8	11 ± 2	2.2 ± 0.4	0.1 ± 0.1
--	Limestone	306	10	< 2.8	10 ± 2	1.9 ± 0.4	0.2 ± 0.1
--	Jordan Sandstone	700	8.5	17 ± 14	22 ± 3	2.8 ± 0.5	0.2 ± 0.1
--	Cedar Valley Limestone	112	8.5	< 2	4.0 ± 0.6	0.5 ± 0.1	1.4 ± 0.1
--	St. Peter Sandstone	313	10.5	25 ± 12	21 ± 3	4.2 ± 0.8	0.1 ± 0.1
--	--	--	--	--	11 ± 2	0.1 ± 0.1	< 0.1
--	--	--	24.5	< 3.2	4.1 ± 0.6	< 0.1	0.1 ± 0.1
--	--	--	26.5	< 3.0	4.1 ± 0.6	< 0.1	< 0.1
--	--	440	--	11 ± 5	< 16	3.4 ± 0.5	2.4 ± 0.2
--	Quartzite	1300	--	44 ± 25	< 78	3.9 ± 0.6	13.0 ± 1.3
--	--	416	--	11 ± 10	< 26	2.3 ± 0.3	3.4 ± 0.3
--	--	--	23.5	--	< 17	0.1	0.1
--	--	--	23.5	--	< 5	0.4	0.1
--	--	--	23.5	--	< 14	< 0.1	< 0.1
--	--	--	23.5	--	< 5	0.3	0.1
--	--	--	--	--	< 45	0.1	0.1
--	--	--	--	--	< 5	0.2	0.1
--	--	--	--	--	< 5	0.1	< 0.1
--	--	--	--	--	< 11	< 0.1	< 0.1
--	--	--	--		< 25	< 0.1	0.2 ± 0.1
--	--	--	--		10	0.1	< 0.1
--	Hattiesburg Clay	889	--	0.6 ± 0.4	13 ± 2	< 0.5	< 0.1

County	Nearest community	Location of point of collection	Owner or operator	Date sampled
MISSISSIPPI (cont.)				
Lamar	Purvis	T. 2 N., R. 16 W., sec. 12, SE1/4, 20 mi W. of Purvis, observation well	Atomic Energy Commission, Hydrologic Division, Hattiesburg	4/12/61
Lamar	Purvis	T. 2 N., R. 16 W., sec. 12, 10 mi W. of Purvis, aquifer no. 2	Atomic Energy Commission, Humble Hibernia	4/15/61
Lamar	- -	T. 2 N., R. 16 W., sec. 14, observation well	Atomic Energy Commission, Hattiesburg	4/30/61
Lamar	Purvis	T. 2 N., R. 16 W., sec. 12, 15 mi. W. of Purvis, aquifer no. 4 of Tatum dome	Atomic Energy Commission, Hattiesburg	4/28/61
Lamar	Purvis	T. 2 N., R. 16 W., sec. 14, 12 mi W. of Purvis, observation well no 4 at Tatum Dome	Atomic Energy Commission Hattiesburg	5/6/61
Lamar	Tatum Dome	Observation well, aquifer no. 3	Atomic Energy Commission, Hattiesburg	5/9/61
Lamar	Tatum Dome	Aquifer no. 2	Atomic Energy Commission	5/15/61
Lamar	Tatum Dome	Aquifer no. 3	Atomic Energy Commission	5/26/61
Lamar	Tatum Dome	T. 2 N., R. 15 W., sec. 14, SW1/4, aquifer no. 4	Atomic Energy Commission	5/19/61
Lamar	Purvis	T. 2 N., R. 15 W., sec. 14, SE1/4, 10 mi W. of Purvis	Layne Texas Water Well	5/26/60
Lamar	Lumberton	T. 1 N., R. 14 W., sec. 31, SW1/4, hydrant outside of Beester pumphouse	Town of Lumberton	9/12/61
Marion	Columbia	Columbia	Town of Columbia	9/12/61
Lamar	Purvis	T. 2 N., R. 14 W., sec. 8, SE1/4, tap at well	Town of Purvis	9/12/61
Lamar	Tatum Dome	T. 2 N., R. 16 W., sec. 12, aquifer no. 1	Atomic Energy Commission, Hattiesburg	5/29/61
Lamar	Tatum Dome	T. 2 N., R. 16 W., sec. 14, aquifer no. 2 at discharge pipe	Atomic Energy Commission, Hattiesburg	5/29/61
Lamar	Purvis	T. 2 N., R. 16 W., sec. 14, SW1/4, 10 mi W. of Purvis, aquifer no. 1 end of discharge pipe	Atomic Energy Commission	6/7/61
Lamar	Purvis	T. 2 N., R. 16 W., sec. 12, SE1/4, 10 mi W. of Purvis, aquifer no. 5	Atomic Energy Commission, Hattiesburg	6/9/61
Lamar	Purvis	T. 2 N., R. 16 W., sec. 14, SW1/4, 10 mi W. of Purvis, observation well	Atomic Energy Commission	6/18/61
Lamar	Lumberton	T. 2 N., R. 15 W., sec. 14, SW1/4, aquifer no. 4 at Tatum Dome	Atomic Energy Commission	5/19/61
Lamar	Sumrall	T. 5 N., R. 15 W., sec. 7, NW1/4	City of Sumrall	1/23/62
Lamar	Purvis	T. 1 N., R. 16 W., sec. 8, NE1/4, 12-14 mi SW. of Purvis	Gulf Oil Company	1/25/62
Lamar	Purvis	T. 2 N., R. 14 W., sec. 35, NW1/4, 4 mi SE. of Purvis	J. O. Baker	1/25/62
Marion	Sumrall	T. 2 S., R. 17 W., sec. 7, SW1/4, 7.5 mi SE. of Sumrall, flowing well	Hub School, Marion County	1/24/62

data for selected ground-water samples--Continued

Time (24 hour)	Water-yielding unit	Depth of well (ft)	Temp (°C)	Gross alpha; U-natural (µg/L)	Gross beta; Sr-90/Y-90 (pCi/L)	Radium-226 planchet (pCi/L)	U-natural; direct fluor. (µg/L)
730	Hattiesburg Clay and Pascagoula Clay	1095	--	2.3 ± 1.3	10 ± 2	2.8 ± 0.6	1.0 ± 0.1
--	Miocene rocks, undivided	6010	23.5	< 1.3	10 ± 2	5.7 ± 1.1	2.1 ± 0.2
--	Miocene rocks, undivided	1060	25	0.5 ± 0.4	0.0 ± 0.9	< 0.1	< 0.1
--	--	2550	33.5	< 6.7	23 ± 4	< 0.5	0.1 ± 0.1
715	Miocene rocks, undivided	1005	25	0.7 ± 0.4	6.2 ± 0.9	0.2 ± 0.1	0.2 ± 0.1
--	--	1,230-1310	29	< 10	6.4 ± 0.4	1.6 ± 1.3	0.7 ± 0.1
--	--	925-955 1,060-1150	26	< 1.7	2.7 ± 0.4	0.2 ± 0.1	< 0.1
--	--	--	30.5	< 39	12 ± 2	0.7 ± 0.1	0.8 ± 0.1
--	Vicksburg Group	1960	32	< 40	49 ± 7	0.4 ± 0.1	0.5 ± 0.1
--	Miocene Sand	366	21.6	< 5	3.5 ± 0.5	0.4 ± 0.1	0.1 ± 0.1
--	Miocene rocks, undivided	1005	25	< 5.4	3.2 ± 0.5	< 0.1	< 0.1
--	--	500	22	< 1	4.3 ± 0.6	0.1 ± 0.1	0.2 ± 0.1
--	Quaternary terrace deposit	35	21	< 0.8	4.6 ± 0.7	0.3 ± 0.1	0.1 ± 0.1
--	--	--	25.5	< 5.8	2.4 ± 0.4	0.2 ± 0.1	0.6 ± 0.1
--	--	1000	25	< 2.2	5.3 ± 0.8	< 0.1	0.2 ± 0.1
--	--	--	24	< 4.3	5.5 ± 0.8	0.2 ± 0.1	0.4 ± 0.1
--	Camerina limestone member of Cook Mountain Formation	2,230-2401	35.5	< 420	220 ± 30	5.5 ± 1.1	0.2 ± 0.1
--	Camerina limestone member of Cook Mountain Formation	2622	33	< 710	< 140	8.1 ± 1.6	1.4
--	Vicksburg Group	2622	32	< 21	10 ± 2	0.2 ± 0.1	0.4 ± 0.1
--	--	400	20	3.3 ± 2.1	4.4 ± 0.7	0.2 ± 0.1	0.6 ± 0.1
--	--	425	--	0.3 ± 0.2	1.6 ± 0.2	0.1 ± 0.1	0.1 ± 0.1
--	--	250	20.5	0.9 ± 0.7	3.1 ± 0.5	0.3 ± 0.1	0.8 ± 0.1
--	--	1025	25	< 1.4	2.5 ± 0.4	< 0.1	0.2 ± 0.1

County	Nearest community	Location of point of collection	Owner or operator	Date sampled
MISSISSIPPI (cont.)				
Lamar	Hattiesburg	T. 4 N., R. 15 W., sec. 31, SE1/4, 13-14 mi SWS. of Hattiesburg	Lawrence Nobles	1/23/62
Lamar	Purvis	T. 3 N., R. 14 W., sec. 28, SE1/4	Pontiac Eastern, Purvis	5/11/62
Hinds	Jackson	Jackson Treatment Plant, finished water	- -	4/30/62
Lamar	Purvis	T. 2 N., R. 16 W., sec. 14, NE1/4, 9 mi W. of Purvis, Tatum Salt Dome, well no. HT-3	Atomic Energy Commission, Hattiesburg	3/20/64
MISSOURI				
Iron	Ironton	T. 34 N., R. 4 E., sec. 32, E. of First Street, N. of Polk Street	- -	e. 10/54
Jasper	Carthage	Well no. 1	- -	e. 12/54
Jasper	Joplin	Joplin	- -	e. 01/55
MONTANA				
Park	Livingston	T. 2 S., R. 9 E., sec. 21, SE1/4 NE1/4, 1.2 mi W. of Livingston	- -	e. 09/54
Hill	Box Elder	T. 29 N., R. 13 E., sec. 5, SW1/4 SW1/4, 8 mi W. of Box Elder	- -	e. 09/54
Park	Livingston	Livingston	City of Livingston	e. 12/55
Blaine	Chinook	T. 33 N., R. 20 E., sec. 34, SE1/4, SE1/4	- -	e. 06/54
Park	- -	Hunter's Hot Spring	- -	e. 07/56
Big Horn	Lodge Grass	T. 6S, R. 35 E., sec. 13, SW1/4 NE1/4, Lodge Grass	- -	e. 09/54
Gallaatin	West Yellowstone	T. 13 S., R. 4 E., sec. 23, NW 1/4, 5 mi. WNW. of W. Yellowstone, Deepwell Ranch	- -	9/4/59
Ravalli	Hamilton	Hamilton	- -	e. 12/55
Gallatin	- -	T. 12 N., R. 5 E., sec. 7, NW1/4, Corey Spring	- -	9/3/59
Sweet Grass	Big Timber	Big Timber	City of Big Timber	e. 12/55
Gallatin	Horse Butte	T. 12 S., R. 4 E., sec. 35, NE1/4, spring on S. side of Horse Butte	- -	9/4/59
Park	Wilsall	4 mi SW. of Wilsall	- -	e. 07/56
Gallatin	Westend	3 mi NW. of Westend	- -	e. 07/56
Park	Clyde Park	1.5 mi N. of Clyde Park	- -	e. 07/56
Gallatin	Clyde Park	12 mi W. of Clyde Park	- -	e. 07/56
Gallatin	Sedan	1 mi NE. of Sedan	- -	e. 07/56
Sweet Grass	Big Timber	1 mi NW. of Big Timber	- -	e. 07/56
Sweet Grass	McLeod	1 mi NE. of McLeod	- -	e. 07/56
Park	Wilsall	Wilsall	- -	e. 07/56
Gallatin	Sedan	7.5 mi S. of Sedan	- -	e. 07/56
Gallatin	Sedan	5 mi SW. of Sedan	- -	e. 07/56
Park	- -	Yellowstone National Park	- -	e. 07/56
Park	Clyde Park	4 mi SE. of Clyde Park	- -	e. 07/56
Sweet Grass	Big Timber	4.5 mi NW. of Big Timber	- -	e. 07/56
Park	Springdale	8 mi NW. of Springdale	- -	e. 07/56
Sweet Grass	Springdale	6.5 mi S. of Springdale	- -	e. 07/56
Meagher	Ringling	4.5 mi N. of Ringling	- -	e. 07/56
Park	Wilsall	8 mi E. of Wilsall	- -	e. 07/56
Park	Clyde Park	5 mi SW. of Clyde Park	- -	e. 07/56
Park	Clyde Park	12 mi E. of Clyde Park	- -	e. 08/56
Sweet Grass	Springdale	NE. of Springdale	- -	e. 09/56

data for selected ground-water samples--Continued

Time (24 hour)	Water-yielding unit	Depth of well (ft)	Temp (°C)	Gross alpha; U-natural (µg/L)	Gross beta; Sr-90/Y-90 (pCi/L)	Radium-226 planchet (pCi/L)	U-natural; direct fluor. (µg/L)
--	--	724	16.5	< 0.8	4.6 ± 0.7	0.2 ± 0.1	< 0.1
--	Catahoula Sandstone	820	--	< 0.9	1.8 ± 0.3	0.1 ± 0.1	0.1 ± 0.1
--	--	--	--	--	21 ± 3	0.1 ± 0.1	0.1 ± 0.1
--	--	1062	35.5	--	< 7.3	0.4 ± 0.1	< 0.4
--	--	--	--	--	< 14	2.3	0.2
--	--	--	--	--	< 11	0.5	0.6
--	--	--	--	--	< 7	2.2	0.2
--	--	--	--	--	< 34	0.1	21.0
--	--	--	--	--	< 340	1.9	0.1
--	--	--	--	--	19	< 0.1	0.9
--	--	--		--	< 68	0.3	1.0
--	--	--	--	--	< 17	< 0.1	< 0.1
--	--	--	--	--	< 45	< 0.1	0.2
--	--	--	--	3.4 ± 2.0	6.9 ± 1.0	0.3 ± 0.1	1.6 ± 0.2
--	--	--	--	--	< 11	< 0.1	1.2
--	--	--	--	3.6 ± 2.6	< 3.3 ± 1.8	0.1 ± 0.1	1.0 ± 0.1
--	--	--	--	--	< 11	< 0.1	1.5
--	--	--	--	11 ± 6	20 ± 3	2.2 ± 0.4	0.6 ± 0.1
--	--	--	--	--	< 17	< 0.1	1.7
--	--	--	--	--	< 11	< 0.1	0.5
--	--	--	--	--	< 17	< 0.1	4.6
--	--	--	--	--	< 11	< 0.1	0.7
--	--	--	--	--	< 17	< 0.1	1.5
--	--	--	--	--	< 17	< 0.1	1.3
--	--	--	--	--	< 17	< 0.1	0.6
--	--	--	--	--	< 45	< 0.1	0.1
--	--	--	--	--	< 11	< 0.1	0.6
--	--	--	--	--	< 14	0.1	0.2
--	--	--	--	--	95	0.1	< 0.1
--	--	--	--	--	< 23	< 0.1	3.9
--	--	--	--	--	< 17	< 0.1	1.4
--	--	--	--	--	< 17	0.1	1.7
--	--	--	--	--	< 17	< 0.1	1.5
--	--	--	--	--	< 45	4.9	0.4
--	--	--	--	--	< 23	0.1	0.7
--	--	--	--	--	< 17	< 0.1	1.4
--	--	--	--	--	< 11	< 0.1	0.5
--	--	--	--	--	< 17	< 0.1	1.8

County	Nearest community	Location of point of collection	Owner or operator	Date sampled
MONTANA (cont.)				
Park	Clyde Park	10 mi NE. of Clyde Park	- -	e. 09/56
Park	Springdale	9 mi NW. of Springdale	- -	e. 09/56
Park	Cllyde Park	14 mi NE. of Clyde Park	- -	e. 07/56
Park	Livingston	10 mi NE. of Livingston	- -	e. 09/56
Gallatin	Maudlow	Maudlow	- -	e. 08/56
Deer Lodge	Anaconda	W. Edge of Anaconda	- -	e. 04/57
Powell	Garrison	Anderson Phosphate Mine	- -	e. 04/57
Jefferson	Whitehall	Whitehall	- -	e. 04/57
Richland	Sidney	Sidney	- -	5/15/58
Roosevelt	Wolf Point	Wolf Point	- -	5/14/58
Yellowstone	Billings	Billings	- -	6/12/58
Phillips	Malta	Malta	- -	5/14/58
Custer	Miles City	Miles City	- -	6/11/58
NEBRASKA				
Banner	- -	T. 19 N., R. 54 W., sec. 30	- -	e. 09/54
Sioux	Crawford	T. 29 N., R. 53 W., sec. 19, 25 mi SW. of Crawford	- -	e. 09/54
Knox	Crofton	NW. of Crofton	- -	e. 09/54
Cass	Louisville	2 mi E. of Louisville	- -	e. 10/54
Banner	Harrisburg	Harrisburg	- -	e. 10/55
Otoe	Douglas	Douglas	City of Douglas	e. 10/55
Burt	Oakland	Oakland	City of Oakland	e. 11/55
Hamilton	Aurora	Aurora	City of Aurora	e. 04/57
Chase	Imperial	Imperial	City of Imperial	e. 05/57
Butler	David City	T. 15 N., R. 3 E., sec. 19, NE1/4, Well # 4	David City	5/2/57
Lancaster	Hallam	Hallam	Village of Hallam	e. 11/56
Howard	St. Paul	St. Paul	- -	5/8/58
Garfield	Burwell	Burwell	- -	5/7/58
Washington	Blair	Blair	- -	7/8/58
Burt	Lyons	Lyons	City of Lyons	7/8/58
Wayne	Wayne	Wayne	City of Wayne	7/9/58
Pierce	Plainview	Plainview	City of Plainwview	7/9/58
Holt	Atkinson	Atkinson	City of Atkinson	7/9/58
Cherry	Valentine	Valentine	City of Valentine	7/10/58
Frontier	Curtis	Curtis	City of Curtis	7/11/58
Lancaster	Lincoln	Lincoln public supply, testing tap	Municipal	1/23/62
NEVADA				
Clark	Las Vegas	W. of Las Vegas	- -	e. 06/54
Elko	Elko	Elko	- -	e. 06/54
Nye	Currant	14 mi SW. of Currant	- -	e. 06/54
Nye	Pahrump	7 mi SE. of Pahrump	- -	e. 02/55
Esmeralda	Dyer	Dyer	- -	e. 03/55
White Pine	Ruth	Ruth	- -	e. 04/55
Lyon	Smith	11 mi N. of Smith	- -	e. 04/55
Nye	Lathrop Wells	Wells about 14 mi W. of Lathrop	- -	e. 03/58
Nye	Rhyolite	N. of Rhyolite, Red Fox Mine	- -	e. 03/56
Pershing	Lovelock	15 mi E. of Lovelock	- -	e. 04/56
Lander	Battle Mountain	Battle Mountain	- -	e. 04/56
Humboldt	Winnemucca	Winnemucca	- -	e. 04/56

data for selected ground-water samples--Continued

Time (24 hour)	Water-yielding unit	Depth of well (ft)	Temp (°C)	Gross alpha; U-natural (µg/L)	Gross beta; Sr-90/Y-90 (pCi/L)	Radium-226 planchet (pCi/L)	U-natural; direct fluor. (µg/L)
--	--	--	--	--	< 14	< 0.1	0.6
--	--	--	--	--	< 17	0.2	1.1
--	--	--	--	--	< 11	< 0.1	< 0.1
--	--	--	--	--	< 45	< 0.1	0.8
--	--	--	--	--	< 23	0.1	1.2
--	--	--	--	0.5	< 11	< 0.1	1.6
--	--	--	--	5	< 8	2.1	2.7
--	--	--	--	15	< 34	0.2	15.0
--	--	--	--	< 9	< 30	0.2	4.7 ± 0.5
--	--	--	--	27	< 57	0.1	1.2 ± 0.1
--	--	--	--	16	< 63	< 0.1	12.0 ± 1.2
--	--	--	--	< 12	< 34	< 0.1	11.0 ± 1.1
--	--	--	--	< 13	< 34	0.5	0.2 ± 0.1
--	--	--	--	--	< 11	0.2	7.0
--	--	--	--	--	< 14	< 0.1	3.8
--	--	--	--	--	< 34	1.2	< 0.1
--	--	--	--	--	< 140	1.3	2.4
--	--	--	--	--	< 23	0.1	16.0
--	--	--	--	--	< 45	0.2	0.4
--	--	--	--	--	< 34	1.4	0.2
--	--	--	--	1.3	< 17	< 0.1	2.6
--	--	--	--	8.2	< 11	0.2	4.4
--	leistocene rocks, undivide	424	13.5	--	< 23	0.8	1.0
--	David City Formation	--	--	< 5.5	< 26	1.1 ± 0.2	4.4 ± 0.4
--	--	--	--	6	28	0.9	13.0
--	--	--	--	< 5	< 19	0.3	5.4
--	--	--	--	--	< 19	0.8	< 0.1
--	--	--	--	--	< 18	0.5	1.3 ± 0.1
--	--	--	--	--	47	0.1	11.0 ± 1.1
--	--	--	--	--	< 13	< 0.1	3.0 ± 0.3
--	--	--	--	--	< 7	0.3	4.0 ± 0.4
--	--	--	--	--	25	0.3	2.8 ± 0.3
--	--	--	--	--	< 13	0.4	5.7 ± 0.6
--	Pleistocene sands and gravels	--	--	--	14 ± 2	0.3 ± 0.1	5.2 ± 0.5
--	--	--	--	--	20	0.3	2
--	--	--	--	--	16	< 0.1	5
--	--	--	--	--	11	< 0.1	1.5
--	--	--	--	--	< 14	0.1	1.6
--	--	--	--	--	< 14	0.6	22
--	--	--	--	--	< 34	1.1	3.7
--	--	--	--	--	< 8	2.5	0.5
--	--	--	--	--	< 23	< 0.1	4.7
--	--	--	--	--	< 17	< 0.1	8.2
--	--	--	--	--	< 14	0.1	2.7
--	--	--	--	--	17	0.1	3.1
--	--	--	--	--	25	< 0.1	6.2

County	Nearest community	Location of point of collection	Owner or operator	Date sampled
NEVADA (cont.)				
Elko	Tuscarora	0.25 mi W. of Tuscarora	--	e. 07/56
Elko	Midas	9 mi E. of Midas	--	e. 07/56
Elko	Jarbridge	Jarbridge	--	e. 07/56
Elko	Midas	3 mi SW. of Midas	--	e. 07/56
Elko	Owyhee	30 mi WNW. of Owyhee	--	e. 07/56
Washoe	Reno	12 mi S. of Reno	--	e. 02/57
Nye	Round Mountain	12 mi NW. of Round Mountain	--	e. 02/57
Nye	Mercury	N. of Mercury, Nevada Test Site U12E.03 tunnel	Atomic Energy Commission	12/3/59
Nye	Mercury	N. of Mercury, Nevada Test Site, White Rock Spring	Atomic Energy Commission	1/29/60
Nye	Mercury	N. of Mercury, Nevada Test Site, Captin Jack Spring	--	5/1/59
Nye	Yucca Flats	Yucca Flats	--	e. 04/57
Nye	Yucca Flats	Supply well no. 3	--	e. 04/57
Nye	Frenchman Flat	Frenchman Flat	--	e. 04/57
Nye	Frenchman Flat	Well no. 5B	--	e. 04/57
Nye	Frenchman Flat	Supple well 5C	--	e. 04/57
Mineral	Hawthorne	Hawthorne	City of Hawthorne	e. 05/57
Douglas	Gardnerville	Gardnerville	City of Gardnerville	e. 06/57
Nye	Tonopah	Tonopah	City of Tonopah	e. 06/57
Elko	Mountain City	0.5 mi W. of Mtn. City, Test hole no. 19	--	e. 06/57
Nye	Water Town	Water Town	--	e. 10/57
Nye	--	Nevada Test Site	--	e. 10/57
Lincoln	--	Between Penoger Valley and Groom Lake	--	e. 10/57
Nye	Lathrop Wells	Lathrop Wells	--	e. 10/57
Nye	Mercury	Kawich Valley, Wheelbarrow Peak, Indian Springs	--	e. 11/60
Nye	Nevada Test Site	Cane Spring	--	e. 11/60
Nye	Mercury	N. of Mercury	--	e. 02/58
Nye	Mercury	Field no. B, N. of Mercury	--	3/24/58
Nye	Mercury	Field no. 3, Nevada Test Site, N. of Mercury	--	3/24/58
Nye	Mercury	Field no. 5C, Nevada Test Site, N. of Mercury	--	3/24/58
Nye	Lathrop Wells	N. of Lathrop Wells	--	e. 03/58
Nye	Lathrop Wells	T. 15 N., R. 50 E., sec. 19, NW1/4	--	4/26/58
Nye	Lathrop Wells	Nevada Test Site J-12, N. of Lathrop Wells	--	e. 05/58
Nye	Mercury	Field no. 6A, Nevada Test Site, S. of Mercury	--	4/27/58
Nye	Mercury	Nevada Test Site 5A, N. of Mercury	--	e. 04/58
Nye	Mercury	T. 52 E., R. 8 S, sec. 17 SW. of Mercury	--	4/27/58
Lincoln	Mercury	Nevada Test Site W-2, NE. of Mercury	--	4/25/58
Lincoln	Mercury	Nevada Test Site W-1, NE. of Mercury T. 49 E., R. 14 S., sec. 15, NE1/4	--	4/25/58
Nye	Lathrop Wells	NE1/4, W. of Lathrop Wells	--	4/24/58
Nye	Lathrop Wells	Nevada Test Site J-11, N. of Lathrop Wells	--	4/24/58

data for selected ground-water samples--Continued

Time (24 hour)	Water-yielding unit	Depth of well (ft)	Temp (°C)	Gross alpha; U-natural (µg/L)	Gross beta; Sr-90/Y-90 (pCi/L)	Radium-226 planchet (pCi/L)	U-natural; direct fluor. (µg/L)
--	--	--	--	--	< 68	0.2	3.3
--	--	--	--	--	29	2.3	0.1
--	--	--	--	--	15	1.0	0.1
--	--	--	--	--	10	< 0.1	< 0.1
--	--	--	--	--	< 9	< 0.1	2.5
--	--	--	--	--	< 110	0.3	< 0.1
--	--	--	--	--	< 17	0.2	< 0.1
--	Piapi Canyon Group	--	--	13 ± 6	11 ± 2	0.1 ± 0.1	1.7 ± 0.2
--	Piapi Canyon Group	--	--	6.4 ± 4.1	56 ± 8	0.1 ± 0.1	3.6 ± 0.4
--	Piapi Canyon Group	--	--	7.0 ± 4.4	20 ± 3	2.5 ± 0.5	1.0 ± 0.1
--	--	--	--	2.4	8	< 1	1.3
--	--	--	--	4.4	< 14	< 0.2	3.1
--	--	--	--	13	25	< 0.2	13.0
--	--	--	--	5.3	35	< 0.2	4.8
--	--	--	--	4.2	< 17	< 0.2	4.3
--	--	--	--	--	45	0.1	7.6
--	--	--	--	--	< 11	< 0.1	1.3
--	--	--	--	--	< 11	< 0.1	5.7
--	--	--	--	93	48	10	62
--	--	--	--	< 4	< 15	< 0.1	1.0
--	--	--	--	< 4	< 12	< 0.1	0.2
--	--	--	--	15	101	0.1	5.8
--	--	--	--	2	< 19	< 0.1	1.6
--	--	--	--	8.2 ± 4.5	12 ± 2	0.8 ± 0.5	4.5 ± 0.4
--	--	--	18.4	2.5 ± 1.3	8.4 ± 1.1	< 0.1	0.8 ± 0.1
--	--	--	--	< 4	< 19	0.2	0.5
--	--	--	--	< 5	18	0.1	6.7
--	--	--	--	< 5	< 22	< 0.1	7.1
--	--	--	--	11 ± 5	< 16	< 0.1	7.4
--	--	--	--	< 2	24	0.1	< 0.1
--	--	--	--	< 4	< 17	< 0.1	3.1
--	--	--	--	< 2	< 13	0.1	0.2
--	--	--	--	< 7	< 34	< 0.1	0.2
--	--	--	--	--	< 25	< 0.1	19
--	--	--	--	5 ± 4	< 17	< 0.1	0.7
--	--	--	--	< 4	< 15	< 0.1	1.0
--	--	--	--	< 3	< 14	0.3	0.4
--	--	--	--	14 ± 4	< 15	< 0.1	1.5
--	--	--	--	< 3	< 34	0.1	2.5

County	Nearest community	Location of point of collection	Owner or operator	Date sampled
NEVADA (cont.)				
Nye	Mercury	N. of Mercury	- -	4/28/58
Nye	Mercury	Nevada Test Site 10, NW. of Mercury	- -	e. 05/58
Nye	Mercury	N. of Mercury	- -	6/6/58
Nye	Mercury	N. of Mercury	- -	7/21/58
Story	Carson City	Carson City	- -	8/5/58
Nye	Rainier Mesa	Nevada Test Site, Rainier Mesa Tunnel U12B	- -	e. 09/58
Nye	Rainier Mesa	Nevada Test Site, Rainier Mesa Tunnel U12E	- -	9/12/58
Nye	Rainier Mesa	Nevada Test Site, Tunnel U12B.04	- -	e. 10/58
Nye	Jackass Flats	Nevada Test Site	- -	e. 03/59
Nye	Mercury	N. of Mercury	- -	10/11/58
Nye	Nevada Test Site	Granite Test Hole, Area 15, Nevada Test Site	- -	4/6/59
Washoe	Reno	T. 18 N., R. 20 E., sec. 27, SW1/4 SE1/4, S. of Reno	- -	3/29/59
Nye	Mercury	N. of Mercury	- -	4/30/59
Nye	Pahrump	2 mi N. of Pahrump	- -	4/29/59
Nye	Pahrump	T. 20 S., R. 52 E., sec. 36, NW1/4, 6 mi W. of Pahrump	- -	4/29/59
Nye	Pahrump	T. 20 S., R. 52 E., sec. 6, SE1/4, 10 mi. W. of Pahrump in Stewart Valley	- -	4/29/59
Nye	Pahrump	T. 21 S., R. 54 E., sec. 9, NE1/4, 6.5 mi SE. of Pahrump	- -	4/29/59
Clark	Pahrump	T. 21 S., R. 54 E., sec. 15, SW1/4, 8 mi SE. of Pahrump	- -	4/29/59
Nye	Pahrump	T. 19 S., R. 52 E., sec. 36, NW1/4, 5 mi NW. of Pahrump	- -	4/29/59
Nye	Pahrump	T. 20 S., R. 52 E., sec. 22, NE1/4, 6 mi W. of Pahrump	- -	4/29/59
Nye	Pharump	T. 21 S., R. 53 E., sec. 12, SW1/4, 4.5 mi S. of Pahrump	- -	4/29/59
Nye	Pahrump	T. 19 S., R. 53 E., sec. 9, NW1/4, 8 mi N. of Pahrump	- -	4/29/59
Nye	Pahrump	T. 19 S., R. 53 E., sec. 21, NE1/4, 6 mi N. of Pahrump	- -	4/29/59
--	Ash Meadows	T. 18 S., R. 51 E., sec. 30, NE1/4 NW1/4NE1/4, 1 mi E. of Ash Meadows	Ben Isaac, Death Valley Junction, California	7/27/62
Lincoln	Mercury	50 mi N. of Mercury, Waterton 3, near Groom Lake	Atomic Energy Commission	e. 10/62
Nye	Nevada Test Site	Yucca Flats	- -	12/2/58
Nye	Nevada Test Site	Rainier Mesa	- -	e. 12/58
Nye	Nevada Test Site	Frenchman Flat - 5C	- -	12/9/58
Nye	Nevada Test Site	Jackass Flats - J-11	- -	e. 12/58
Nye	Nevada Test Site	Rainier Mesa	- -	1/22/59
Nye	Nevada Test Site	Rainier Mesa	- -	1/22/59
Clark	- -	Army 6D UTM	- -	e. 03/59
Nye	Nevada Test Site	Rainier Mesa U12E Tunnel seep from tunnel well	- -	e. 03/59

data for selected ground-water samples--Continued

Time (24 hour)	Water-yielding unit	Depth of well (ft)	Temp (°C)	Gross alpha; U-natural (µg/L)	Gross beta; Sr-90/Y-90 (pCi/L)	Radium-226 planchet (pCi/L)	U-natural; direct fluor. (µg/L)
--	--	--	--	--	< 15	< 0.1	2.1
--	--	--	--	< 3	26	0.3	0.5
--	--	--	--	< 3	10	0.2	1.1
--	--	--	--	9.4	< 15	0.1	1.5 ± 0.2
--	--	--	--	--	13	0.1	26 ± 3
--	--	--	--	< 2.1	< 12	< 0.1	0.7 ± 0.1
--	--	--	--	5.0 ± 4.5	< 7	0.3	1.3 ± 0.1
--	--	--	--	--	< 8	--	--
--	Piapi Canyon Group	820	--	3.1 ± 2.3	10.0 ± 1.7	0.1 ± 0.1	0.5 ± 0.1
--	--	--	--	3.6 ± 2.3	< 13	0.2	1.1 ± 0.1
--	Granite	--	--	98 ± 83	41 ± 10	2.4 ± 0.5	13.0 ± 1.3
--	Alluvium	--	--	< 4.9	15 ± 2	< 0.1	0.2 ± 0.1
--	Piapi Canyon Group	--	--	2.5 ± 2.2	20 ± 3	0.1 ± 0.1	0.7 ± 0.1
--	Alluvial fill	--	--	1.8 ± 1.7	7.1 ± 1.1	0.2 ± 0.1	1.6 ± 0.2
--	--	--	--	3.4 ± 2.9	5.7 ± 0.9	0.4 ± 0.1	1.7 ± 0.2
--	Alluvial fill	--	--	< 5.2	54 ± 8	2.9 ± 0.6	3.9 ± 0.4
--	Alluvial fill	--	--	< 8.5	13 ± 2	2.0 ± 0.4	5.7 ± 0.6
--	Alluvial fill	--	--	3.0 ± 2.1	6.4 ± 1.0	0.1 ± 0.1	1.7 ± 0.2
--	Alluvium	--	--	6.2 ± 3.4	3.2 ± 0.5	0.1 ± 0.1	1.4 ± 0.1
--	Alluvial fill	--	--	< 2	13 ± 2	0.1 ± 0.1	2.8 ± 0.3
--	Alluvial fill	--	--	< 1.8	4.5 ± 0.8	< 0.1	2.2 ± 0.2
--	--	--	--	2.3 ± 2.1	13 ± 2	0.1 ± 0.1	2.1 ± 0.2
--	Alluvial fill	--	--	< 1.8	4.4 ± 0.8	0.1 ± 0.1	1.3 ± 0.1
--	Lake beds	--	21	< 6.3	13 ± 2	< 0.1	0.2 ± 0.1
1215	Quaternary talus	375	23.5	< 8.5	7.5 ± 1.1	< 0.1	1.7 ± 0.4
--	Piapi Canyon Group	--	--	6.1 ± 3.7	14	< 0.1	2.3 ± 0.2
--	Piapi Canyon Group	1943	--	< 2.8	< 16	1.7 ± 0.2	0.1 ± 0.1
--	Valley fill	1200	--	< 3.5	21.0 ± 2.6	0.1 ± 0.1	6.2 ± 0.6
--	Piapi Canyon Group	--	--	< 5.7	23.0 ± 5.2	< 0.1	2.7 ± 0.3
--	Piapi Canyon Group	--	--	270 ± 150	10000 ± 1500	8.2 ± 1.6	31 ± 3
--	Piapi Canyon Group	--	--	52 ± 27	95 ± 14	0.1 ± 0.1	1.6 ± 0.2
--	Valley fill	300	--	< 2	7.0 ± 1.7	0.6 ± 0.1	0.3 ± 0.1
--	Piapi Canyon Group	--	--	8.2 ± 7	8700 ± 1300	0.8 ± 0.2	0.5 ± 0.1

County	Nearest community	Location of point of collection	Owner or operator	Date sampled
NEVADA (cont.)				
Nye	Yucca Flat	2 mi NE. of Baldoon Junction Y	Atomic Energy Commission	1/9/61
Nye	- -	Spector range quad N4040.5 E573.5	W. R. White, Las Vegas	1/10/61
Nye	Mercury	Nevada Test Site, 40 mi NW. of Mercury, U12B.07 shaft	Atomic Energy Commission	2/14/61
Nye	Nevada Test Site	Area 3	U.S. Geological Survey and Atomic Energy Commission	2/10/61
Nye	Nevada Test Site	U12E.06 Sta. 1351	Atomic Energy Commission	1/24/61
Nye	Nevada Test Site	U12E-03 Sta. 468	- -	1/24/61
Nye	Mercury	20 mi N. of Mercury C-2	Atomic Energy Commission	3/27/61
Nye	Nevada Test Site	Tunnel U12E.02	Atomic Energy Commission	5/3/61
Nye	Nevada Test Site	Tunnel above "B" U12E.02	Atomic Energy Commission	05/3-5/61
Nye	Nevada Test Site	Tunnel U12E, main drift fracture seep	Atomic Energy Commission	e. 05/61
Nye	Nevada Test Site	Yucca Flat Hole B	Atomic Energy Commission	e. 05/61
Nye	Nevada Test Site	U12E.05, at cove B	Atomic Energy Commission	05/3-5/61
Nye	Nevada Test Site	U.12E-03 drift	Atomic Energy Commission	05/1-3/61
Nye	Nevada Test Site	7.3 mi NW. of Baldoon Junction 4	Atomic Energy Commission	6/30/61
Nye	Mercury	7 mi W. and 7 mi N. of Mercury, hole F	Atomic Energy Commission	5/30/61
Nye	- -	Stockade wash Long range #1	Atomic Energy Commission	6/8/61
Nye	- -	Stockade wash	Atomic Energy Commission	6/9/61
Nye	Beatty	T. 13 S., R. 47 E., sec. 35, N1/2, 11 mi SW. of Beatty AEC#1	Nuclear Engineering Co. Pleasanton, California	7/17/61
Nye	Mercury	15 mi NW. of Mercury, USGS test well F	Atomic Energy Commission	8/17/61
Nye	Nevada Test Site	Nevada Test Site Well C	Atomic Energy Commission	9/1/61
Nye	Nevada Test Site	U12B W, Top of shaft	Atomic Energy Commission	8/11/61
Nye	Nevada Test Site	U12B	Atomic Energy Commission	8/9/61
Nye	Nevada Test Site	Nevada Test Site	Atomic Energy Commission	e. 11/61
Nye	Nevada Test Site	Nevada Test Site well A	Atomic Energy Commission	e. 12/61
Nye	Nevada Test Site	Nevada Test Site well C	Atomic Energy Commission	1/19/62
Nye	Rainier Mesa	U12N tunnel Fault zone	Atomic Energy Commission	3/16/62
Nye	Nevada Test Site	Nevada Test Site #3	Atomic Energy Commission	e. 12/61
Nye	Mercury	Nevada Test Site well J12	Atomic Energy Commission	3/31/62
Nye	Mercury	40 mi N. of Mercury	Atomic Energy Commission	3/27/61
Nye	Mercury	Yucca Flat, 20 mi N. of Mercury, well C	Atomic Energy Commission	4/25/62
Nye	Mercury	Yucca Flat, 22 mi N. of Mercury, well 3	Atomic Energy Commission	4/25/62
Nye	Mercury	Yucca Flat, 38 mi N. of Mercury, well 2	Atomic Energy Commission	4/25/62
Nye	Mercury	Frenchman Flat, 8 mi N. of Mercury well 5A	Atomic Energy Commission	4/25/62
Nye	Mercury	Yucca Flat, 28 mi N. of Mercury, well A	Atomic Energy Commission	4/25/62
Nye	Mercury	Frenchman Flat, 8 mi N. of Mercury well 5D	Atomic Energy Commission	4/25/62
Nye	Mercury	Frenchman Flat, 8 mi N. of Mercury well 5C	Atomic EnergyCommission	4/25/62
Clark	Indian Springs	6 mi E. of Frenchman Lake GWTW3	Atomic Energy Commission	5/10/62
Nye	Nevada Test Site	Nevada Test Site well F	Atomic Energy Commission	6/17/62
Nye	Nevada Test Site	Area 3 well A	Atomic Energy Commission	6/29/62
Nye	Desert Rock	3 mi SW. of Desert Rock	Atomic Energy Commission	7/10/62
Nye	Desert Rock	3 mi SW. of Desert Rock	Atomic Energy Commission	7/15/62
Nye	Nevada Test Site	Area 401	Atomic Energy Commission	7/19/62

data for selected ground-water samples--Continued

Time (24 hour)	Water-yielding unit	Depth of well (ft)	Temp (°C)		Gross alpha; U-natural (µg/L)	Gross beta; Sr-90/Y-90 (pCi/L)		Radium-226 planchet (pCi/L)	U-natural; direct fluor. (µg/L)
--	--	1950	--		5.5 ± 4.7	58 ± 9		0.9 ± 0.2	14 ± 1
--	Sand and gravel	135	22		5.1 ± 3.4	12 ± 2	<	0.5	2.9 ± 0.3
--	Piapi Canyon Group	620	19.5	<	4.5	7.5 ± 0.5		1.0 ± 0.8	3.2 ± 0.3
--	Piapi Canyon Group	2440	43.5	<	12	11 ± 2		1.0 ± 0.8	2.0 ± 0.2
--	--	--	--		6.9 ± 3.6	8.8 ± 1.3		--	--
--	--	--	--		8.9 ± 4.4	10 ± 2		--	--
--	Limestone	1700	35	<	8.6	25 ± 4		4.9 ± 1.0	0.2 ± 0.1
--	Piapi Canyon Group	--	--	<	1	9.0 ± 1.3		2.0 ± 0.4	0.6 ± 0.1
--	Piapi Canyon Group	--	--	<	2	47000 ± 7000		2.1 ± 0.4	2.8 ± 0.3
--	Piapi Canyon Group	--	--		4.2 ± 1.8	30 ± 5		0.3 ± 0.1	4.7 ± 0.5
--	Piapi Canyon Group	1676	26	<	29	6.5 ± 1.0	<	0.5	0.6 ± 0.1
--	Piapi Canyon Group	625	--	<	28	310 ± 50	<	0.1	1.5 ± 0.1
--	Piapi Canyon Group	809.5	--	<	5.4	36 ± 5		0.2 ± 0.1	0.2 ± 0.1
--	Piapi Canyon Group	2373	30.5	<	98	50 ± 8	<	0.1	2.5 ± 0.4
--	Piapi Canyon Group	1700	22	<	16	9.2 ± 1.4		0.2 ± 0.1	2.8 ± 0.3
--	Tertiary tuff	3731	20	<	20	15 ± 2		0.5 ± 0.1	3.1 ± 0.6
--	Paleozoic dolomite	3730	--	<	13	5.9 ± 0.9		0.3 ± 0.1	1.8 ± 0.2
--	Boulder bed	573	--	<	110	18 ± 3		0.2 ± 0.1	8.0 ± 0.8
--	Tuff	1695	33.5	<	100	78 ± 12		0.5 ± 0.1	9.3 ± 0.9
--	Limestone, dolomite	1701	36.5	<	32	21 ± 3		1.3 ± 0.3	7.5 ± 0.8
--	--	--	--		11 ± 5	370 ± 60		1.1 ± 0.2	0.1 ± 0.1
--	--	--	--	<	1.6	1600 ± 200		3.9 ± 0.8	0.3 ± 0.1
--	--	1940	30	<	12	17 ± 2		0.3 ± 0.1	2.8 ± 0.3
--	Alluvium	1870	26		7.6 ± 5.5	17 ± 3	<	0.2	6.6 ± 0.7
--	Paleozoic limestone	1700	36		14 ± 9	21 ± 3		1.4 ± 0.3	6.8 ± 0.7
1312	Piapi Canyon Group	--	15		2.1 ± 1.5	4.3 ± 0.6		0.3 ± 0.1	0.7 ± 0.1
--	Tuff	1800	24.5		5.7 ± 4.2	12 ± 2	<	0.2	3.8 ± 0.4
1000	Piapi Canyon Group	887	25		3.8 ± 2.5	5.8 ± 0.9	<	0.1	0.6 ± 0.1
--	Quartzite and carbonates	6001	35		12 ± 6	25 ± 4		1.5 ± 0.3	2.7 ± 0.3
1100	Dolomitic limestone	1201	36.5		19 ± 9	21 ± 3		1.1 ± 0.2	7.3 ± 0.7
1430	Piapi Canyon Group	1799	22		7.8 ± 4.1	9.3 ± 1.4	<	0.1	3.3 ± 0.3
1115	Dolomitic limestone	3421	34	<	3.1	7.7 ± 1.2		0.5 ± 0.1	1.0 ± 0.1
1600	Piapi Canyon Group	894	23.5	<	6.4	11 ± 2	<	0.1	15 ± 2
1430	Quaternary talus	1870	27		5.7 ± 2.9	9.6 ± 1.4	<	0.1	4.4 ± 0.4
1520	Quaternary talus	890	25	<	3.8	12 ± 2	<	0.1	5.7 ± 0.6
1545	Quaternary talus	1189	24	<	4.8	9.5 ± 1.4	<	0.1	5.6 ± 0.6
--	Pogonip Group	1860	38		13 ± 8	17 ± 2		2.0 ± 0.4	2.8 ± 0.3
--	Dolomite	3400	64.5	<	6.7	16 ± 2		4.5 ± 0.9	0.2 ± 0.1
--	Quaternary and Tertiary alluvium	1870	27		5.8 ± 3.9	11 ± 2	<	0.1	4.7 ± 0.5
--	Paleozoic limestone and dolomite	1953	33.5	<	4.1	7.6 ± 1.1		0.3 ± 0.1	2.3 ± 1.1
--	Windfall carbonates	1050	31.5	<	4.1	7.9 ± 1.2		0.5 ± 0.1	2.5 ± 0.3
--	Dacite	186	22	<	2.9	9.4 ± 1.4	<	0.1	0.4 ± 0.1

County	Nearest community	Location of point of collection	Owner or operator	Date sampled
NEVADA (cont.)				
Nye	Nevada Test Site	Rainier Mesa, E. tunnel U12E tunnel roof drip	- -	e. 03/59
Clark	Army well	- -	- -	e. 01/59
Nye	Ash Meadows	T. 18 S., R. 51 E., sec. 19, NE1/4, Big Spring, Ash Meadows, Drain	- -	1/27/59
Nye	Death Valley Junction, California	T. 18 S., R. 50 E., sec. 5, SE1/4, 8 mi NE. of Death Valley Junction, California, Carson Slough	- -	1/27/59
Nye	Nevada Test Site	Frenchman Flat	Atomic Energy Commission	2/4/59
Nye	Rainier Mesa	Nevada Test Site, U12E-03 415' into 03 drift drip from tunnel	- -	5/20/59
Nye	Mercury	E. tunnel, Nevada Test Site 50 mi N. of Mercury, fracture from right well, 03 drift of U12E 03	- -	5/27/59
Nye	- -	Nevada Test Site, U12E.04 Tunnel (roof drip)	- -	6/2/59
Nye	- -	U12E-40+75, E. tunnel system (fault zone)	- -	6/1/59
Nye	Rainier Mesa	Nevada Test Site, U12E-02, E. tunnel 497'	- -	- -
Nye	Lathrop Wells	T. 15 S., R. 50 E., sec. 19, NW1/4	- -	6/26/59
Nye	Rainier Mesa	Nevada Test Site, U12E-4805, E. tunnel Fracture seep	- -	6/24/59
Nye	Mercury	Nevada Test Site, U12E-03, 50 mi N. of Mercury 11 + 86	- -	7/10/59
Nye	Nevada Test Site	Area 15, Marble test no. 1	- -	7/11/59
Nye	Mercury	50 mi N. of Mercury, U12E-54+32 tunnel fracture	- -	7/18/59
Nye	Mercury	Nevada Test Site, E. tunnel of drift Sta. 435	- -	9/20/59
Nye	Mercury	Nevada Test Site, U12A-M	- -	11/4/59
Nye	Mercury	N. of Mercury	- -	e. 10/59
Nye	Mercury	45 mi N. of Mercury	- -	e. 11/59
Lincoln	Mercury	NE. of Mercury	- -	e. 11/59
Nye	Mercury	45 mi N. of Mercury	- -	e. 11/59
Nye	Mercury	45 mi N. of Mercury	- -	e. 11/59
Nye	Mercury	N. of Mercury, U12E.03 tunnel 920	Atomic Energy Commission	e. 12/59
Nye	Mercury	N. of Mercury, U12E.04 tunnel PER Tunnel 302	Atomic Energy Commission	1/7/60
Nye	Nevada Test Site	E. tunnel, 12E.07 415 fault zone	- -	e. 04/60
Nye	Nevada Test Site	U12E tunnel 1905 fracture seep	- -	4/28/60
Nye	Mercury	50 mi N. of Mercury	- -	5/5/60
Nye	Yucca Flat	Hole E	- -	7/31/60
Nye	Nevada Test Site	U12E.06 tunnel floor	- -	8/12/60
Nye	Mercury	Yucca Valley, granite shaft, area 15 900'	- -	8/15/60
Nye	Mercury	28 mi N. of Mercury, test well	Atomic Energy Commission	9/21/60
Nye	Mercury	35 mi N. of Mercury, test well	Atomic Energy Commission	10/1/60
Nye	Mercury	47 mi N. of Mercury, test well	Atomic Energy Commission	e. 10/60

data for selected ground-water samples--Continued

Time (24 hour)	Water-yielding unit	Depth of well (ft)	Temp (°C)		Gross alpha; U-natural (µg/L)	Gross beta; Sr-90/Y-90 (pCi/L)		Radium-226 planchet (pCi/L)	U-natural; direct fluor. (µg/L)
--	Piapi Canyon Group	--	--		6.3 ± 4.0	16.0 ± 2.6	<	0.1	0.5 ± 0.1
--	Valley fill	540	--		8.1 ± 6.1	9.4 ± 3.5		0.2 ± 0.1	1.4 ± 0.1
--	Valley fill	--	--	<	5	16.0 ± 3.5		0.1 ± 0.1	2.6 ± 0.3
--	--	--	--	<	4	8.5 ± 3.5	<	0.1	4.5 ± 0.4
--	Piapi Canyon Group	--	--	<	8.6	4.5 ± 2.6		1.9 ± 0.4	18.0 ± 1.8
--	--	415	--		22 ± 12	11 ± 2		0.4 ± 0.1	2.1 ± 0.2
--	--	--	--		16 ± 8	27 ± 4		0.3 ± 0.1	1.6 ± 0.2
--	Piapi Canyon Group	--	--		1.2 ± 0.9	280 ± 40	<	0.5	0.2 ± 0.1
--	Piapi Canyon Group	--	--		8.3 ± 5.0	23 ± 3		0.9 ± 0.2	2.2 ± 0.2
--	--	497	--		--	39000 x 1000		15 ± 3	15 ± 2
--	Quaternary alluvium	--	--		6.7 ± 4.3	9.4 ± 3.5	<	0.5	3.4 ± 0.3
--	Piapi Canyon Group	--	--		7.9 ± 5.1	69 ± 10		0.7 ± 0.1	4.9 ± 0.5
--	Piapi Canyon Group	--	--	<	4.2	49 ± 7	<	0.5	3.7 ± 0.4
--	Paleozoic marble	--	--	<	3.8	8.9 ± 1.3		0.2 ± 0.1	2.2 ± 0.2
--	Piapi Canyon Group	--	--		11 ± 6	15 ± 2		0.2 ± 0.1	4.2 ± 0.4
--	--	--	--		11 ± 7	30 ± 4		0.3 ± 0.1	0.9 ± 0.1
--	--	--	--		4.4 ± 2.9	80 ± 12	<	0.5	5.7 ± 0.6
--	--	--	--		4.7 ± 3.1	5.5 ± 1.4		0.6 ± 0.5	2.7 ± 0.3
--	--	--	--		3.4 ± 2.4	6.4 ± 1.0		0.3 ± 0.1	0.5 ± 0.1
--	--	--	--		7.9 ± 6.7	11 ± 2	<	0.1	2.2 ± 0.2
--	--	--	--		5.4 ± 2.9	10 ± 1		0.3 ± 0.1	0.8 ± 0.1
--	--	--	--		11 ± 7	13 ± 2		0.3 ± 0.3	4.3 ± 0.4
--	Piapi Canyon Group	--	--		6.0 ± 3.5	43 ± 6		0.2 ± 0.1	0.8 ± 0.1
--	Piapi Canyon Group	--	--		2.2 ± 1.3	3.7 ± 0.5	<	0.5	0.4 ± 0.1
--	Piapi Canyon Group	--	--		13 ± 7	13 ± 2		0.4 ± 0.1	6.4 ± 0.6
--	Piapi Canyon Group	--	--		--	32 ± 5		0.3 ± 0.1	13 ± 1
--	--	--	--		27 ± 14	32 ± 5		5.1 ± 1.0	26 ± 3
--	Piapi Canyon Group	1875	42		3.9 ± 2.8	4.7 ± 0.7	<	0.5	2.5 ± 0.2
--	Piapi Canyon Group	--	16.5		10 ± 6	18 ± 3		1.1 ± 0.5	10 ± 1
--	Paleozoic granite	--	19		52 ± 23	32 ± 5		1.2 ± 0.5	12 ± 1
--	Alluvium	1870	26		6.6 ± 3.9	15 ± 2	<	0.5	4.7 ± 0.5
--	Piapi Canyon Group	560	--		2.4 ± 1.8	8.1 ± 1.2	<	0.5	1.7 ± 0.2
--	Piapi Canyon Group	1107	15.5	<	1.5	8.0 ± 1.2	<	0.5	0.9 ± 0.1

Table 1-- *Sample-site data and radiochemical*

County	Nearest community	Location of point of collection	Owner or operator	Date sampled
NEVADA (cont.)				
Nye	- -	Stockade wash Hole 1	Atomic Energy Commission	8/11/62
Nye	Amargosa Valley	T. 16 S., R. 48 E., sec. 36, SE1/4	Helen Watson, Lathrop Wells	8/18/62
Nye	Amargosa Valley	T. 16 S., R. 49 E., sec. 9, SW1/4	Theo E. Selbach, California	8/19/62
Nye	Amargosa Valley	T. 17 S., R. 50 E., sec. 29, SE1/4	Nye County Land Co. La Jolla, California	8/18/62
Nye	Amargosa Valley	T. 16 S., R. 48 E., sec. 23, NW1/4	Harold Gillespie Los Angeles, California	8/19/62
Nye	Amargosa Valley	T. 16 S., R. 48 E., sec. 17, NE1/4	M. J. H. Overhalser California	8/18/62
Nye	Amargosa Valley	T. 16 S., R. 49 E., sec. 35, NW1/4	M. Ed McCoy, Lathrop Wells	8/18/62
Nye	Amargosa Valley	T. 16 S., R. 50 E., sec. 7, SW1/4	L. C. Cook, Lathrop Wells	8/18/62
Clark	Cactus Springs	3 mi W. of Cactus Springs well 4	Atomic Energy Commission	9/13/62
Nye	Mercury	Yucca Flat, 20 mi N. of Mercury, well C	Atomic Energy Commission	e. 10/62
Nye	Mercury	28 mi N. of Mercury, Yucca Valley GWTW A	Atomic Energy Commission	e. 10/62
Nye	Mercury	32 mi W. of Mercury TW6 J13	Atomic Energy Commission	1/1/63
Nye	Mercury	40 mi NE. of Mercury TW8	Atomic Energy Commission	1/5/63
Nye	Mercury	50 mi NW. of Mercury TW8	Atomic Energy Commission	1/11/63
Nye	- -	Area 401	Atomic Energy Commission	2/19/63
Clark	Indian Springs	10 mi W. of Indian Springs	Atomic Energy Commission	2/26/63
Nye	Mercury	Yucca Valley, 28 mi N. of Mercury well A	Atomic Energy Commission	9/23/63
Nye	Mercury	Yucca Valley, 38 mi N. of Mercury well 2	Atomic Energy Commission	9/23/63
Nye	Mercury	Yucca Valley, 20 mi N. of Mercury well C1	Atomic Energy Commission	9/23/63
NEW MEXICO				
Eddy	Loving	T. 23 S., R. 31 E., sec. 17, SW1/4 NW1/4, 17 mi E. of Loving	- -	2/4/59
Eddy	Loving	T. 23 S., R. 31 E., sec. 26, SW1/4 SE1/4, 20 mi E. of Loving	- -	2/4/59
Eddy	Loving	T. 25 S., R. 29 E., sec. 16, SE1/4, SE1/4, SE1/4, 12 mi S. and 4 mi. E. of Loving	- -	2/5/59
Eddy	Loving	T. 23 S., R. 30 E., sec. 19, SW1/4 NE1/4, 11 mi E. of Loving	- -	2/6/59
Eddy	Loving	T. 25 S., R. 30 E., sec. 21, SW1/4 SW1/4, SE1/4, 12 mi S. and 10 mi E. of Loving	Anaconda Company	2/5/59
Eddy	Grants	T. 12 N., R. 10 W., sec. 8, SW1/4	Anaconda Company	2/3/59
Eddy	Carlsbad	T. 23 S., R. 31 E., sec. 29, NW1/4, SE. of Carlsbad	- -	e. 10/58
Eddy	Malaga	T. 24 S., R. 30 E., sec. 8, NW1/4, E. of Malaga	- -	e. 10/58
NEW YORK				
Wayne	Lyons	Composite of well and Junius ponds	Village of Lyons	e. 10/58
Wayne	Lyons	Lyons	Village of Lyons	e. 10/58
Wayne	Lyons	Composite of well and Junius ponds	Village of Lyons	e. 10/58
Wayne	Lyons	Composite of well and Junius ponds well 5545	Village of Lyons	e. 10/58
Wayne	Lyons	Lyons well PS	Village of Lyons	e. 10/58
--	Jamaica	Wells no. 8, 8A, 17A, 31	Jamaica Water Supply Co.	5/16/62

data for selected ground-water samples--Continued

Time (24 hour)	Water-yielding unit	Depth of well (ft)	Temp (°C)	Gross alpha; U-natural (µg/L)	Gross beta; Sr-90/Y-90 (pCi/L)	Radium-226 planchet (pCi/L)	U-natural; direct fluor. (µg/L)
--	Dolomite	4206	31.5	25 ± 20	9.0 ± 1.3	1.9 ± 0.4	1.6 ± 0.2
--	Limestone	407	--	< 16	11 ± 2	< 0.1	2.9 ± 0.3
--	--	300	24	< 8	8.4 ± 1.2	< 0.1	1.5 ± 0.2
--	Gravel	470.7	19.5	< 20	17 ± 3	0.3 ± 0.1	4.0 ± 0.4
--	--	330	24	< 7.9	8.9 ± 1.3	< 0.1	2.2 ± 0.2
--	Gravel	--	24	< 19	18 ± 3	0.4 ± 0.1	6.2 ± 0.6
--	Sand and gravel	325	24.5	< 16	16 ± 2	< 0.1	1.6 ± 0.2
--	Gravel and boulders	200	--	< 16	12 ± 1	< 0.1	1.4 ± 0.2
945	Limey dolomite	1500	25.5	< 8	2.9 ± 0.4	0.2 ± 0.1	0.5 ± 0.2
1000	Dolomitic limestone	1650	36.5	< 21	30 ± 4	1.3 ± 0.3	7.2 ± 0.7
1430	Quaternary talus	1870	27	< 9	13 ± 2	< 0.1	4.8 ± 0.5
800	Piapi Canyon Group	3488	30.5	< 6.7	7.2 ± 1.1	0.1 ± 0.1	0.7 ± 0.4
--	Tertiary tuff	5489.5	29.5	--	5.2 ± 0.8	< 0.1	0.4 ± 0.4
--	Rhyolite and welded tuff	1872	27	< 4.7	4.9 ± 0.7	0.2 ± 0.1	0.8 ± 0.4
--	Dacite	172	--	< 12	9.4 ± 1.4	0.2 ± 0.1	1.6 ± 0.4
--	Fractured carbonates	1300	--	< 29	4.1 ± 0.6	0.1 ± 0.1	0.6 ± 0.4
1440	Quaternary tatus	1870	27	--	10 ± 2	< 0.1	4.2 ± 0.4
1315	Paleozoic Dolomitic Limestone	3421	34.5	--	11 ± 2	0.2 ± 0.1	0.5 ± 0.4
1520	Paleozoic dolomite	1650	37	--	11 ± 2	< 0.1	6.3 ± 0.6
--	Gatuna Formation	--	--	62 ± 57	100 ± 15	0.1 ± 0.1	8.6 ± 0.9
--	Triassic red beds	--	--	100 ± 56	210 ± 32	0.8 ± 0.2	16.0 ± 1.6
--	Culebra Dolomite Member c Rustler Formation	--	--	16 ± 12	98 ± 15	0.1 ± 0.1	6.6 ± 0.7
--	Gatuna Formation	--	--	< 21	72 ± 11	0.6 ± 0.1	9.5 ± 0.9
--	Gatuna Formation	--	--	43 ± 37	74 ± 11	0.2 ± 0.1	6.2 ± 0.6
--	Yeso Formation	--	--	< 18	160 ± 20	0.2 ± 0.1	2.8 ± 0.3
--	Alluvium	--	--	23 ± 19	25 ± 4	< 0.1	9.0 ± 0.9
--	Alluvium	--	--	3 ± 2	3.1 ± 1.7	0.1 ± 0.1	2.8 ± 0.3
--	--	--	--	7.0 ± 5.6	< 39	< 0.1	0.5 ± 0.1
--	--	--	--	< 320	< 1200	13 ± 2	2.8 ± 0.3
--	--	--	--	< 3.9	< 40	< 0.1	0.6 ± 0.1
--	--	--	--	< 36	< 259	1.3 ± 0.2	1.0 ± 0.1
--	--	--	--	280 ± 210	< 1200	16 ± 2	0.6 ± 0.1
--	--	600	13.5	--	3.5 ± 0.5	0.1 ± 0.1	1.0 ± 0.1

County	Nearest community	Location of point of collection	Owner or operator	Date sampled
NEW YORK (cont.)				
Cattaraugus	--	Western New York Nuclear Service Center	New York State Office of Atomic Development	5/14/62
Cattaraugus	--	Western New York Nuclear Service Center	New York State Office of Atomic Development	5/15/62
Cattaraugus	--	Western New York Nuclear Service Center	New York State Office of Atomic Development	5/12/62
Cattaraugus	--	Western New York Nuclear Service Center	New York State Office of Atomic Development	7/27/62
Cattaraugus	--	Western New York Nuclear Service Center	New York State Office of Atomic Development	7/27/62
Cattaraugus	--	Western New York Nuclear Service Center	New York State Office of Atomic Development	7/27/62
Cattaraugus	--	Western New York Nuclear Service Center	New York State Office of Atomic Development	7/27/62
[1] Usage of State of New York				
NORTH DAKOTA				
Cattaraugus	--	Western New York Nuclear Service Center	New York State Office of Atomic Development	7/27/62
Wayne	Lyons	Composite from Junius ponds and wells	Village of Lyons	e. 11/59
Ramsey	Devils Lake	Devils Lake	--	e. 05/54
Morton	Mandan	Mandan	--	e. 09/54
Mountrail	Stanley	Stanley	--	e. 09/54
Cavalier	Landgon	Langdon	--	e. 11/54
Pembina	St. Thomas	St. Thomas	--	e. 11/54
Pembina	St. Thomas	St. Thomas	--	e. 06/56
Nelson	Michigan	Michigan	--	e. 08/56
Grand Forks	Grand Forks	4.1 mi W. of Grand Forks airport	--	e. 08/56
Morton	New Salem	New Salem	--	e. 04/57
Stark	Belfield	Belfield	--	e. 04/57
Hettinger	New England	New England	--	11/7/58
Benson	Leeds	Leeds	--	5/28/58
Emmons	Strasburg	Strasburg	City of Strasburg	6/24/58
Burke	Lignite	T. 163 N., R. 92 W., sec. 34, NW1/4 NE1/4, NW. of Lignite	--	e. 04/59
Williams	Grenora	T. 158 N., R. 102 W., sec. 30, SW1/4, SE1/4NE1/4, 8 mi S. of Grenora	Norbert Kueffler, Grenora	4/30/64
Ward	Makoti	Sec. 29, NE1/4NE1/4NW1/4, Makoti	James Stafslien, Makoti	4/30/64
Divide	Noonan	T. 160 N., R. 95 W., sec. 10, SE1/4, NW1/4NW1/4, 13 mi S. of Noonan	Orrie Skarphol, Noonan	4/30/64
Ward	Minot	T. 154 N., R. 84 W., sec. 1, SE1/4 SE1/4SE1/4	Frank Novak, Minot	5/1/64
Williams	Alamo	T. 159 N., R. 99 W., sec. 21, SE1/4	Ray Anderson, Alamo	4/30/64
Divide	Crosby	T. 163 N., R. 98 W., sec. 17, SE1/4 SE1/4, 6 mi W. and 3 mi N. of Crosby	Everet Hanson., Ambrose	4/30/64
OHIO				
Champaign	Mechanicsville	S. of Mechanicsville	--	4/19/60
Montgomery	Dayton	Tap in laboratory	Municipal	5/14/62
OKLAHOMA				
Cleveland	Norman	Norman	--	e. 05/54
Ottawa	Miami	Miami	--	e. 06/54

data for selected ground-water samples--Continued

Time (24 hour)	Water-yielding unit	Depth of well (ft)	Temp (°C)	Gross alpha; U-natural (µg/L)	Gross beta; Sr-90/Y-90 (pCi/L)	Radium-226 planchet (pCi/L)	U-natural; direct fluor. (µg/L)
--	Glacial till	10.6	13	--	5.5 ± 0.8	< 0.1	0.1 ± 0.1
--	Glacial outwash	10.6	21.5	--	2.4 ± 0.4	0.2 ± 0.1	0.3 ± 0.1
--	Glacial outwash	27.7	17	--	5.3 ± 0.7	0.1 ± 0.1	1.0 ± 0.1
1120	Clacial deposits	10.5	19.5	--	--	< 0.1	--
1535	Machias Shale [1]	156	12	--	--	< 0.4	--
1250	Glacial deposits	21.4	16	--	--	< 0.1	--
1345	Glacial deposits	10.5	18	--	--	< 0.1	--
1535	Machias Shale [1]	156	12	--	4.5 ± 0.6	0.6 ± 0.1	0.6 ± 0.1
1535	--	--	10	< 3.2	6.5 ± 3.3	< 0.1	0.6 ± 0.1
--	--	--	--	--	58	0.5	0.4
--	--	--	--	--	< 68	0.2	0.2
--	--	--	--	--	< 68	< 0.1	0.4
--	--	--	--	--	< 110	< 0.1	0.3
--	--	--	--	--	< 1700	35	0.5
--	--	--	--	--	< 1700	74	0.6
--	--	--	--	--	< 34	< 0.1	< 0.1
--	--	--	--	--	< 170	0.4	0.3
--	--	--	--	--	170	0.1	0.3
--	--	--	--	--	< 85	0.2	1.0
--	Lignite	--	--	< 6	< 53	0.7 ± 0.1	0.8 ± 0.1
--	--	--	--	< 50	< 170	0.3	< 0.1
--	--	--	--	--	< 30	0.3	0.4 ± 0.1
--	Mission Canyon Limestone	6236	--	< 1800	8500 ± 1300	67 ± 13	0.1 ± 0.1
--	Lignite bed	110	6.5	--	11 ± 2	0.6 ± 0.1	< 0.4
--	Coal	254	7	--	< 15	< 0.1	< 0.4
--	Tongue River Member of Fort Union Formation (coal)	320	7	--	< 10	0.3 ± 0.1	< 0.4
--	Coal	240	8.5	--	< 7.3	0.1 ± 0.1	< 0.4
--	Lignite bed	140	8	--	5.4 ± 0.8	0.2 ± 0.1	< 0.4
--	Tongue River Member of Fort Union Formation	70	--	--	< 19	0.2 ± 0.1	< 0.4
--	--	--	12	4.3 ± 3.7	5 ± 3	0.9 ± 0.2	2.3 ± 0.2
--	--	--	18	--	7 ± 1	0.1 ± 0.1	< 0.1
--	--	--	--	--	< 7	0.3	9.7
--	--	--	--	--	19	3.5	0.2

County	Nearest community	Location of point of collection	Owner or operator	Date sampled
OKLAHOMA (cont.)				
Texas	Guymon	Guymon	--	e. 06/54
Rogers	Claremore	Claremore	--	e. 10/54
Mayes	Salina	2 mi S. of Salina	--	e. 10/54
Choctaw	Hugo	Hugo	--	e. 01/55
Beaver	Beaver	Beaver	--	e. 01/55
Murray	Sulphur	S. of Sulphur	--	e. 01/55
Murray	Sulphur	Sulphur	--	e. 01/55
Caddo	Hinton	Hinton	City of Hinton	e. 04/56
Seminole	Seminole	Seminole	--	e. 04/56
Caddo	Cyril	2.5 mi from Cyril	--	e. 03/57
Caddo	Cement	E. of Cement	--	e. 02/57
Roger Mills	Cheyenne	5 mi S. and 2 mi W. of Cheyenne	--	2/19/58
Washita	Burns Flat	2 mi N. of Burns Flat	--	2/19/58
Woodward	Quinlan	Quinlan	City of Quinlan	2/20/58
Ottawa	Miami	Miami	--	e. 02/58
Murray	Sulphur	Sulphur	--	3/4/58
Cleveland	Norman	Norman	--	3/5/58
Oklahoma	Del City	Del City	--	3/4/58
Carter	Ardmore	8.5 mi NW. of Ardmore	--	2/4/58
Pontotoc	Fittstown	2 mi W. of Fittstown	--	3/4/58
Caddo	Cement	Cement	--	3/3/58
Tulsa	Tulsa	Tulsa treatment plant, finished water	--	7/27/61
Nowata	Nowata	NE. of Nowata	--	e. 12/58
Nowata	Nowata	NE. of Nowata	--	e. 12/58
OREGON				
Baker	--	1 mi N. of Haines	--	e. 05/55
Jefferson	--	SE. of Madras	--	e. 05/55
Wheeler	--	NE. of Mitchell	--	e. 05/55
Benton	--	Near Monroe	--	e. 05/55
Lake	--	5 mi NW. of Lakeview	--	e. 11/55
Harney	--	9 mi N. of Andrews	--	e. 11/55
Columbia	--	5 mi SW. of Scappoose	--	e. 11/55
Harney	--	1.1 mi N. of Denio, Nevada	--	e. 07/56
Malheur	--	0.25 mi SE. of Sheaville	--	e. 07/56
Lake	--	2 mi N. of Lakeview	--	e. 02/57
Josephine	--	Cave Junction	--	e. 02/57
Harney	--	Andrews	--	e. 02/57
Crook	--	Near Fife and Hampton	--	e. 01/57
Harney	--	Burns	--	e. 01/57
Kalmath	--	Merrill	--	4/16/58
Deschutes	--	Hampton	--	4/18/58
Marion	--	St. Paul	--	4/14/58
Multnomah	--	S. of Fairview	--	5/5/58
Multnomah	--	E. of Portland	--	4/22/58
Linn	--	Lebanon	--	4/14/58
Washington	--	Tigard	--	4/21/58
Jefferson	--	Madras	--	4/18/58
Jackson	--	7 mi SE. of Butte Falls	--	4/16/58
Klamath	--	SW. of Chiloquin	--	4/17/58
Umatill	Pilot Rock	Pilot Rock	--	6/18/58

data for selected ground-water samples--Continued

Time (24 hour)	Water-yielding unit	Depth of well (ft)	Temp (°C)	Gross alpha; U-natural (µg/L)	Gross beta; Sr-90/Y-90 (pCi/L)	Radium-226 planchet (pCi/L)	U-natural; direct fluor. (µg/L)
--	--	--	--	--	< 7	0.1	9.4
--	--	--	--	--	< 1700	390	0.4
--	--	--	--	--	< 1700	230	0.3
--	--	--	--	--	< 14	2.4	0.1
--	--	--	--	--	< 14	0.3	4.3
--	--	--	--	--	< 17	0.3	1.3
--	--	--	--	--	< 27	4.1	0.3
--	--	--	--	--	< 34	0.4	7.4
--	--	--	--	--	< 11	0.7	< 0.1
--	--	--	--	--	< 23	0.3	2.2
--	--	--	--	--	37	2.0	120
--	--	--	--	--	< 17	0.2	1.7
--	--	--	--	--	< 19	0.3	0.8
--	--	--	--	--	< 13	0.2	1.9
--	--	--	--	22	< 25	4.0	0.3
--	--	--	--	15	< 17	2.8	0.2
--	--	--	--	10	27	0.1	45
--	--	--	--	2.4	< 19	0.2	0.3
--	--	--	--	< 1..4	< 23	0.7	< 0.1
--	--	--	--	8..8	< 25	0.8	1.0
--	--	--	--	35	91	3.4	170
--	--	--	29	< 3.5	3.4 ± 0.5	< 0.1	0.2 ± 0.1
--	Bluejacket Sandstone Member of Boggy Formation	--	--	510 ± 25	680 ± 170	85 ± 13	1.4 ± 0.1
--	Arbuckle Limestone	--	--	1100 ± 840	< 1000	410 ± 62	0.3 ± 0.1
--	--	--	25.5	--	< 8	< 0.1	< 0.1
--	--	--	25.5	--	< 14	0.2	0.6
--	--	--	25.5	--	< 23	< 0.1	0.7
--	--	--	25.5	--	< 5	< 0.1	< 0.1
--	--	--	24.5	--	< 7	0.1	0.1
--	--	--	25	--	< 140	1.7	0.1
--	--	--	25	--	< 1100	5.9	0.2
--	--	--	--	--	< 11	0.7	0.1
--	--	--	--	--	16	< 0.1	0.1
--	--	--	--	--	< 34	0.1	0.5
--	--	--	--	--	< 7	< 0.1	< 0.1
--	--	--	--	--	< 17	0.1	0.3
--	--	--	--	--	< 17	< 0.1	1.2
--	--	--	--	--	< 0.8	0.1	0.3
--	--	--	--	< 4	< 11	< 0.1	0.2 ± 0.1
--	--	--	--	< 3	< 10	< 0.1	0.6 ± 0.1
--	--	--	--	< 4	< 12	< 0.1	0.2 ± 0.1
--	--	--	--	< 2	< 7	1.2	0.1 ± 0.1
--	--	--	--	< 3	< 8	< 0.1	0.8 ± 0.1
--	--	--	--	< 2	< 7	< 0.1	0.3 ± 0.1
--	--	--	--	< 3	< 8	< 0.1	0.1 ± 0.1
--	--	--	--	< 5	19	< 0.1	0.9 ± 0.1
--	--	--	--	< 2	< 8	< 0.1	0.7 ± 0.1
--	--	--	--	< 4	< 13	< 0.1	< 0.1
--	--	--	--	4.8	32	< 0.1	2.0 ± 0.2

County	Nearest community	Location of point of collection	Owner or operator	Date sampled
OREGON (cont.)				
Umatilla	Hermiston	SW. Hermiston	- -	6/17/58
Umatilla	Hermiston	Hermiston	- -	6/17/58
Morrow	Lexington	NE. of Lexington	- -	6/17/58
Morrow	Boardman	5 mi S. of Boardman	- -	6/16/58
Morrow	Boardman	Boardman	- -	6/17/58
Umatilla	Pendleton	SE. Pendleton	- -	6/18/58
Umatilla	Athena	Athena	- -	6/17/58
Morrow	Lexington	Lexington	- -	6/16/58
Morrow	Heppner	12 mi SE. of Heppner	- -	6/16/58
Wasco	The Dalles	The Dalles	- -	7/31/58
Umatilla	Milton-Freewater	Milton-Freewater	- -	8/1/58
Wasco	The Dalles	S. of the Dalles	- -	7/30/58
Umatilla	Milton-Freewater	Milton-Freewater	- -	8/1/58
Klamath	Sprague River	4 mi E. of Sprague River	- -	8/6/58
Wasco	The Dalles	S. of The Dalles	- -	7/30/58
Wasco	The Dalles	Near The Dalles	- -	7/31/58
Klamath	Beatty	2.5 mi NW. of Beatty	- -	8/6/58
Wasco	The Dalles	The Dalles	- -	7/30/58
Klamath	Sprague River	0.8 mi E. of Sprague River	- -	8/6/58
Kalmath	Chiloquin	4.5 mi S. of Chiloquin	- -	8/7/58
Harney	Andrews	T. 36 S., R. 36 E., 6 mi N. of White Horse Ranch	- -	9/25/58
SOUTH CAROLINA				
Aiken	Augusta	Savannah River plant	DuPont Corporation	1/17/61
Aiken	Aiken	1.1 mi W. of Town Creek	- -	11/25/58
Aiken	Aiken	14 mi NE. of Aiken	- -	11/13/58
SOUTH DAKOTA				
Pennington	Rapid City	8 mi SW. of Rapid City	- -	e. 06/54
Pennington	Rapid City	U.S. Air Base	- -	e. 06/54
Fall River	Hot Springs	Hot Springs, V.A. Center	- -	e. 06/54
Minnehaha	- -	- -	- -	e. 06/54
Fall River	Minnekahta	NW. of Minnekahta	- -	e. 12/55
Harding	Buffalo	Buffalo	- -	e. 03/57
Meade	Sturgis	SW. of Sturgis	- -	e. 03/57
Fall River	Edgemont	Edgemont	- -	e. 09/57
Buffalo	Fort Thompson	Fort Thompson	- -	8/27/58
Bon Homme	Springfield	T. 93 N., R. 60 W., sec. 24, SW1/4, fire hydrant	- -	2/20/59
Sully	Onida	T. 114 N., R. 77 W., sec. 11, NE1/4, tap 100' from well	- -	1/22/59
Ziebach	Dupree	T. 113 N., R. 21 E., sec. 30, SE1/4, Dupree City Park, tap	City of Dupree	1/23/59
Fall River	Hot Springs	8 mi NW. of Hot Springs, tap	- - - -	12/17/58
TENNESSEE				
Shelby	Memphis	Memphis, finished water	- -	9/15/61
Shelby	Memphis	Memphis, Sheahan pump, finished water	- -	9/15/61
Shelby	Memphis	Memphis, finished water	- -	9/15/61
Roane	Oak Ridge	Spring above cooling tower	- -	e. 05/62

data for selected ground-water samples--Continued

Time (24 hour)	Water-yielding unit	Depth of well (ft)	Temp (°C)	Gross alpha; U-natural (µg/L)	Gross beta; Sr-90/Y-90 (pCi/L)	Radium-226 planchet (pCi/L)	U-natural; direct fluor. (µg/L)
--	--	--	--	< 3.7	14	< 0.1	0.3 ± 0.1
--	--	--	--	< 3.6	14	< 0.1	< 0.1
--	--	--	--	< 4.4	15	< 0.1	< 0.1
--	--	--	--	< 4.6	< 13	< 0.1	< 0.1
--	--	--	--	< 6	< 19	< 0.1	10 ± 1
--	--	--	--	< 3	8.3	< 0.1	0.1 ± 0.1
--	--	--	--	< 3.3	< 8	< 0.1	< 0.1
--	--	--	--	3.7	< 13	< 0.1	0.1
--	--	--	--	--	6.2	< 0.1	0.4 ± 0.1
--	--	--	--	--	< 10	< 0.1	0.1 ± 0.1
--	--	--	--	--	< 5	< 0.1	< 0.1
--	--	--	--	--	< 7	< 0.1	0.5 ± 0.1
--	--	--	--	--	< 5	< 0.1	0.1 ± 0.1
--	--	--	--	--	< 5	< 0.1	< 0.1
--	--	--	--	--	8.6	0.1	< 0.1
--	--	--	--	--	13.0	< 0.1	< 0.1
--	--	--	--	--	< 4.0	< 0.1	< 0.1
--	--	--	--	--	< 9.0	< 0.1	< 0.1
--	--	--	--	--	< 5.0	0.1	< 0.1
--	--	--	--	--	< 5.0	< 0.1	< 0.1
--	--	--	--	2.9 ± 2.9	28.0 ± 3.5	0.2 ± 0.1	2.9 ± 0.3
--	--	220	--	1.0 ± 0.6	1.9 ± 0.3	0.2 ± 0.1	< 0.1
--	--	--	--	--	< 12	0.4 ± 0.1	< 0.1
--	--	--	--	--	< 13	2.0 ± 0.2	0.1 ± 0.1
--	--	--	--	--	< 10	0.3	1.1
--	--	--	--	--	< 17	2.0	6.4
--	--	--	--	--	< 68	0.4	7.1
--	--	--	--	--	< 17	2.2	8.1
--	--	--	--	--	< 68	3.4	< 0.1
--	--	--	--	--	< 34	0.3	0.3
--	--	--	--	--	< 17	0.1	1.0
--	--	--	--	36	< 47	3.0	5.1
--	--	--	--	--	< 74	1.4	< 0.1
--	Dakota Sandstone	200	--	< 9.3	53 ± 8	1.3 ± 0.3	< 0.1
--	--	--	--	< 8.5	12 ± 10	0.4 ± 0.1	0.1 ± 0.1
--	--	--	--	< 7.4	7.1 ± 6.9	0.1 ± 0.1	0.3 ± 0.1
--	Pahasapa Limestone	--	--	7.3 ± 3.4	9.0 ± 1.7	0.6 ± 0.2	3.9 ± 0.4
--	--	500	--	--	3.3 ± 0.5	0.3 ± 0.1	< 0.1
--	--	--	--	--	2.5 ± 0.4	0.1 ± 0.1	< 0.1
--	--	--	--	--	1.9 ± 0.3	0.2 ± 0.1	< 0.1
--	Knox Dolomite and Chickamauga Limestone	--	17	--	1.1 ± 0.1	< 0.1	0.2 ± 0.1

County	Nearest community	Location of point of collection	Owner or operator	Date sampled
TEXAS				
Concho	Eden	Eden	--	e. 06/54
Tarrant	Fort Worth	17 mi E. of Fort Worth	--	e. 06/54
Hale	Plainview	Plainview	--	e. 06/54
Zavala	Crystal City	Crystal City	--	e. 06/54
Tarrant	Fort Worth	Fort Worth	--	e. 11/54
Tarrant	Fort Worth	Fort Worth	--	e. 12/54
Tarrant	Fort Worth	Fort Worth	--	e. 12/54
Tarrant	Fort Worth	Fort Worth	--	e. 12/54
Tarrant	Fort Worth	Fort Worth	--	e. 12/54
Tarrant	Fort Worth	Fort Worth	--	e. 12/54
Tarrant	Fort Worth	Fort Worth	--	e. 12/54
Tarrant	Fort Worth	Fort Worth	--	e. 12/54
Tarrant	Fort Worth	Fort Worth	--	e. 12/54
Hudspeth	Dell City	2 mi N. and 2.5 mi W. of Dell City	--	e. 12/54
San Saba	San Saba	15 mi S. of San Saba	--	e. 01/55
Mitchell	Colorado City	Colorado City	--	e. 01/55
Uvalde	Uvalde	1 mi N. of Uvalde	--	e. 01/55
Tarrant	Fort Worth	Fort Worth	--	e. 01/55
Tarrant	Fort Worth	Fort Worth	--	e. 01/55
Tarrant	Fort Worth	Fort Worth	--	e. 01/55
Tarrant	Fort Worth	Fort Worth	--	e. 01/55
Jeff Davis	Valentine	Valentine	--	e. 01/55
Brewster	Alpine	Alpine	--	e. 01/55
Floyd	Floydada	10 mi NE. of Floydada	--	e. 06/55
Briscoe	Quitaque	8 mi NW. of Quitaque	--	e. 06/55
Floyd	Dougherty	10 mi NE. of Dougherty	--	e. 06/55
Castro	Dimmit	Dimmit	--	e. 06/55
Armstrong	Claude	W. Fifth, Claude	--	e. 07/55
Parmer	Muleshoe	12 mi NE. of Muleshoe	--	e. 06/55
Randall	Canyon	SE. of Canyon	--	e. 06/55
Randall	Canyon	First Avenue and Fourth Street	--	e. 06/55
Lamb	Muleshoe	8 mi NE. of Muleshoe	--	e. 06/55
Hale	Plainview	NW. of Plainview	--	e. 06/55
Castro	Hart	3 mi SW. of Hart	--	e. 06/55
Deaf Smith	Hereford	3 mi N. of Hereford	--	e. 06/55
Lamb	Littlefield	4.9 mi SE. of Littlefield	--	e. 06/55
Swisher	Kress	Kress	--	e. 06/55
Briscoe	Silverton	Silverton	--	e. 06/55
Potter	Amarillo	Amarillo	--	e. 06/55
Lamb	Hart Camp	2.1 mi N. of Hart Camp	--	e. 06/55
Swisher	Happy	4.5 mi W. of Happy	--	e. 06/55
Parmer	Friona	2 mi W. of Friona	--	e. 06/55
Floyd	Lockney	5 mi NW. of Lockney	--	e. 07/55
Randall	Amarillo	SW. of Amarillo	--	e. 07/55
Carson	Panhandle	Panhandle	--	e. 07/55
Bailey	Muleshoe	8.5 mi NW. of Muleshoe	--	e. 07/55
Oldham	Vega	Vega	--	e. 07/55
Hale	Plainview	11 mi S. of Plainview	--	e. 07/55
Johnson	Cleburne	14 mi SW. of Cleburne	Dr. H. C. Allison, Smithfield	e. 10/55
Travis	Manor	Manor	--	e. 12/55

data for selected ground-water samples--Continued

Time (24 hour)	Water-yielding unit	Depth of well (ft)	Temp (°C)	Gross alpha; U-natural (µg/L)	Gross beta; Sr-90/Y-90 (pCi/L)	Radium-226 planchet (pCi/L)	U-natural; direct fluor. (µg/L)
--	--	--	--	--	36	6.1	0.2
--	--	--	--	--	< 10	0.2	0.1
--	--	--	--	--	< 8	0.1	6.2
--	--	--	--	--	< 8	1.2	0.2
--	--	--	23	--	< 34	0.3	--
--	--	--	23	--	< 1.4	0.1	--
--	--	--	23	--	< 27	0.2	--
--	--	--	23	--	< 34	0.5	--
--	--	--	23	--	< 23	0.1	--
--	--	--	23	--	9	0.1	--
--	--	--	23	--	< 23	< 0.1	--
--	--	--	23.5	--	< 23	< 0.1	--
--	--	--	23.5	--	13	0.1	--
--	--	--	23.5	--	< 45	0.2	--
--	--	--	23.5	--	< 85	2.6	11
--	--	--	23.5	--	< 17	0.2	0.5
--	--	--	23.5	--	< 27	1.1	1.4
--	--	--	24	--	24	0.2	1
--	--	--	23.5	--	< 8	0.1	--
--	--	--	23.5	--	11	< 0.1	--
--	--	--	23.5	--	12	0.1	--
--	--	--	23.5	--	< 11	0.1	--
--	--	--	24	--	< 8	< 0.1	0.9
--	--	--	23.5	--	< 11	< 0.1	2.1
--	--	--	26.5	--	31	0.2	8.2
--	--	--	26.5	--	< 23	0.1	7.8
--	--	--	26.5	--	< 68	0.1	3.6
--	--	--	26	--	< 17	0.1	5.8
--	--	--	26	--	< 17	0.2	7.2
--	--	--	26	--	< 17	0.1	6.9
--	--	--	26	--	< 17	0.2	3.1
--	--	--	26	--	< 23	0.9	6.7
--	--	--	26	--	< 17	0.1	7.4
--	--	--	26	--	< 23	0.1	4.8
--	--	--	26	--	< 17	0.2	6.0
--	--	--	26	--	23	0.2	3.5
--	--	--	26	--	< 34	0.3	10
--	--	--	25.5	--	< 17	0.3	5.8
--	--	--	26	--	< 23	0.4	9.0
--	--	--	26.5	--	< 17	0.8	6.7
--	--	--	26.5	--	< 17	0.1	3.9
--	--	--	27	--	26	0.1	5.0
--	--	--	27	--	< 17	0.2	4.2
--	--	--	27	--	< 23	0.2	8.3
--	--	--	27	--	< 17	0.1	6.6
--	--	--	27.5	--	< 17	0.3	5.4
--	--	--	27.5	--	< 23	0.2	3.6
--	--	--	27.5	--	< 34	0.1	5.0
--	--	--	27	--	17	< 0.1	0.9
--	--	--	--	--	--	--	0.1
--	--	--	--	--	< 68	8.6	< 0.1

Table 1-- *Sample-site data and radiochemical*

County	Nearest community	Location of point of collection	Owner or operator	Date sampled
TEXAS (cont.)				
Karnes	Kenedy	Kenedy, water well no. 5	--	e. 12/55
Karnes	Karnes City	Karnes City, water well no. 3	--	e. 01/56
Ector	Goldsmith	Goldsmith	--	e. 09/56
Hockley	Levelland	6 mi E. of Levelland	--	e. 09/56
Terry	Brownfield	10 mi S. of Brownfield	--	e. 09/56
Gaines	Seminole	13.5 mi W. of Seminole	--	e. 09/56
Lynn	New Home	8 mi W. of New Home	--	e. 04/56
Martin	Stanton	Stanton	--	e. 04/56
Andrews	Andrews	15 mi SW. of Andrews	--	e. 09/56
Lubbock	Shallowater	1.5 mi N. of Shallowater	--	e. 09/56
Lubbock	Idalou	5 mi S. of Idalou	--	e. 09/56
Cochran	Morton	6.2 mi W. of Morton	--	e. 09/56
Crosby	Ralk	4 mi E. of Ralk	--	e. 09/56
Andrews	Andrews	6 mi E. of Andrews	--	e. 09/56
Martin	Lamesa	15.5 mi SW. of Lamesa	--	e. 09/56
Gaines	Seminole	18 mi E. and 7 mi N. of Seminole	--	e. 09/56
Dawson	Lamesa	12 mi N. of Lamesa	--	e. 09/56
Terry	Brownfield	10 mi WNW of Brownfield	--	e. 09/56
Midland	Midland	7.5 mi N. of Midland	--	e. 09/56
Yoakum	Denver City	6 mi E. and 1 mi N. of Denver City	--	e. 09/56
Cochran	Morton	7 mi SSW. of Morton	--	e. 09/56
Dawson	Lamesa	10 mi S. on U.S. Highway 87 from Lamesa	--	e. 09/56
Yoakum	Bronco	1.6 mi E. of Bronco	--	e. 09/56
Lynn	O'Donnell	6 mi NE. of O'Donnell	--	e. 09/56
Glasscock	Stanton	12 mi S. of Stanton	--	e. 09/56
Howard	Big Spring	5 mi N. of Big Spring	--	e. 09/56
Winkler	Kermit	Kermit	--	e. 02/57
Crane	Crane	8 mi NW. of Crane	--	e. 02/57
Goliad	Goliad	Goliad	--	e. 02/57
Williamson	Taylor	Taylor cooling tower	City of Taylor	4/1/60
Sherman	Statford	Hugoton Field, S. of Stratford	--	6/23/61
Harris	Houston	E. end of well field, composite	City of Houston	7/25/61
Harris	Houston	Tap from resevoir, SW. plant, composite	City of Houston	7/25/61
Harris	Houston	Heights well field, composite	City of Houston	e. 09/61
El Paso	El Paso	Canutillo Station, composite	City of El Paso	1/18/62
El Paso	El Paso	Mesa Station, composite	City of El Paso	1/18/62
El Paso	El Paso	Airport Station, composite	City of El Paso	1/18/62
Nueces	Corpus Christi	Cunningham Treatment Plant, composite	City of El Paso	1/31/62
Bailey	Lubbock	NW. of Lubbock, Sand Hills well field composite	City of Lubbock	2/14/62
Bexar	San Antonio	Market Street Station, composite	City of San Antonio	2/8/62
Lubbock	Lubbock	14 mi NW. of Lubbock, Shallow Water Field	City of Lubbock	2/14/62
Carson	Amarillo	Composite	City of Amarillo	2/12/62
Potter and Randa	Amarillo	SW. of City Station, composite	City of Amarillo	2/12/62
Lubbock	Lubbock	NE. well from Main Plant	City of Lubbock	2/14/62
Jasper	Evadale	Neches	--	3/29/62

[2] Usage of State of Texas

data for selected ground-water samples--Continued

Time (24 hour)	Water-yielding unit	Depth of well (ft)	Temp (°C)	Gross alpha; U-natural (µg/L)	Gross beta; Sr-90/Y-90 (pCi/L)	Radium-226 planchet (pCi/L)	U-natural; direct fluor. (µg/L)
--	--	--	--	--	< 68	0.2	15
--	--	--	--	--	< 45	0.8	0.2
--	--	--	--	--	< 34	0.3	5.9
--	--	--	--	--	< 34	< 0.1	11
--	--	--	--	--	< 45	0.1	11
--	--	--	--	--	< 34	0.3	2.7
--	--	--	--	--	< 34	< 0.1	12
--	--	--	--	--	< 45	< 0.1	6.3
--	--	--	--	--	< 34	0.1	1.9
--	--	--	--	--	< 68	0.1	11
--	--	--	--	--	< 45	0.2	12
--	--	--	--	--	< 45	0.1	5.5
--	--	--	--	--	< 17	0.2	7.4
--	--	--	--	--	< 23	0.1	3.4
--	--	--	--	--	< 45	0.8	12
--	--	--	--	--	< 45	1.4	19
--	--	--	--	--	< 45	0.1	8.2
--	--	--	--	--	< 34	< 0.1	3.1
--	--	--	--	--	< 45	< 0.1	7.6
--	--	--	--	--	< 34	0.1	3.8
--	--	--	--	--	< 34	< 0.1	4.8
--	--	--	--	--	< 34	< 0.1	9.2
--	--	--	--	--	< 34	0.2	3.1
--	--	--	--	--	< 680	0.2	48
--	--	--	--	--	< 34	0.1	28
--	--	--	--	--	< 23	0.8	4.1
--	--	--	--	--	< 11	0.2	1.6
--	--	--	--	--	< 14	< 0.1	1.9
--	--	--	--	--	< 68	0.5	3.5
--	Sligo Formation	3356	42.5	< 8.1	< 8.6	1.4 ± 0.3	0.2 ± 0.1
--	--	2700	--	< 155	35 ± 5	1.9 ± 0.4	< 0.1
--	--	--	--	< 17	2.8 ± 0.4	0.3 ± 0.1	0.1 ± 0.1
--	Lissie Formation and Willis Sand	--	--	10 ± 8	7.4 ± 1.1	0.8 ± 0.1	2.2 ± 0.2
--	Lissie Formation and Willis Sand	--	--	< 12	23 ± 3	1.3 ± 0.2	3.6 ± 0.4
--	Santa Fe Group [2]	--	--	--	1.9 ± 0.3	0.5 ± 0.5	0.1 ± 0.1
--	Bolson-fill sediments	--	--	--	14 ± 2	0.2 ± 0.1	3.4 ± 0.3
--	Bolson-fill sediments	--	--	--	13 ± 2	0.1 ± 0.1	5.4 ± 0.5
--	--	--	14	--	13 ± 2	0.1 ± 0.1	0.9 ± 0.1
--	Ogallala Formation	220	--	--	7.4 ± 1.1	0.3 ± 0.1	3.0 ± 0.3
--	Edwards Limestone	--	--	--	2.5 ± 0.4	0.3 ± 0.1	0.3 ± 0.1
--	Ogallala Formation	115	--	--	130 ± 2	1.9 ± 0.4	250 ± 30
--	Ogallala Formation	850	18	--	8.8 ± 1.3	1.0 ± 0.2	4.9 ± 0.4
--	Ogallala Formation	307	11.5	--	8.6 ± 1.3	0.5 ± 0.1	7.4 ± 0.7
--	Ogallala Formation	--	--	--	35 ± 5	0.1 ± 0.1	13 ± 1
1530	--	--	19	--	17 ± 3	< 0.1	< 0.1

County	Nearest community	Location of point of collection	Owner or operator	Date sampled
TEXAS (cont.)				
El Paso	El Paso	Nevins Station, composite	City of El Paso	4/24/62
El Paso	El Paso	Lower Valley well	City of El Paso	4/24/62
Lubbock	Lubbock	Shallow Water well	City of Lubbock	4/24/62
Duval	Freer	Hillcrest Courts	N.T. Renshaw	5/30/63
Duval	Freer	17 mi SW. on Caldwell Ranch	Clarence Priour	5/30/63
Duval	- -	1 mi NE. of Palangana Dome, well no. 4	Pittsburg Plate Glass Company	5/30/63
Duval	- -	Wiederkehr Ranch	Woodrow Wiederkehr	5/25/63
Duval	Freer	8 mi SSE. of Freer	City of Freer	5/23/63
Duval	- -	1 mi W. of Palangana Dome, well # 10	Pittsburg Plate Glass Co.	5/30/63
Kent	Jayton	6 mi N. of Jayton	C. C. York, Jayton	1/13/64
Kent	Girard	4.5 mi W. of Girard	W. A. Perry, Girard	1/31/64
King	Guthrie	9.5 mi S. of Guthrie	Leo Ballard, Guthrie	1/15/64
Kent	Jayton	2 mi W. of Jayton	G. H. Hoggard, Jayton	1/14/64
Stonewall	Aspermont	15 mi NW. of Aspermont	W. S. Proctor, Aspermont	1/15/64
Stonewall	Aspermont	16 mi NW. of Aspermont	Wayne McMeans, Aspermont	1/15/64
Kent	Jayton	3 mi N. of Jayton	Z. L. McAteer, Jayton	1/16/64
Stonewall	Aspermont	16 mi NW. of Aspermont	L. L. Rodgers	1/15/64
Stonewall	Aspermont	16 mi NW. of Aspermont	Homer Hodges	1/15/64
Stonewall	Aspermont	13 mi NW. of Aspermont	Raymond Altman, Aspermont	1/15/64
Dickens	Gilpin	3 mi N. of Gilpin	Austin Watson, Spur	1/13/64
Kent	Girard	5 mi S. of Girard	J. G. Page, Girard	1/13/64
Stonewall	Swenson	10 NW. of Swenson	Houston Ward, Aspermont	1/15/64
Kent	Jayton	3 mi E. of Jayton	H. J. Goswick, Jayton	1/15/64
Kent	Jayton	2 mi NE. of Jayton	Mrs. E. E. York, Jayton	1/15/64
Stonewall	Jayton	10 mi E. of Jayton	J. D. Patterson, Aspermont	1/15/64
Stonewall	Jayton	12 mi E. of Jayton	J. D. Patterson, Aspermont	1/15/64
Stonewall	Swenson	12 mi N. of Swenson	J. O. Penrod, Aspermont	1/15/64
Kent	Jayton	3 mi NE. of Jayton	Mrs. E. E. York, Jayton	1/14/64
Stonewall	Aspermont	20 mi W. of Aspermont	Houston Ward, Aspermont	1/13/64
Harris	Houston	Houston, city tap	City of Houston	e. 06/54
Tarrant	Fort Worth	Fort Worth	- -	e. 01/55
UTAH				
Cache	Cache Junction	0.25 mi E. of Cache Junction	- -	e. 06/54
Weber	Ogden	1 mi SW. of Ogden	- -	e. 06/54
Weber & Box Elde	Ogden	7 mi N. of Ogden, county line	- -	e. 06/54
Salt Lake	Salt Lake City	2340 S. Redwood Road	- -	e. 06/54
Millard	Delta	5 mi N. of Delta	- -	e. 06/54
Sevier	Venice	Venice School	- -	e. 06/54
Washington	Zion Canyon	Weeping Rock	- -	e. 06/54
Beaver	Minersville	4 mi W. and 4 mi S. of Minersville	- -	e. 06/54
Salt Lake	Salt Lake City	Salt Lake City	- -	e. 07/55
Davis	- -	T. 2 N., R. 1 W., sec. 34	- -	e. 07/55
Davis	- -	T. 2 N., R. 1 W., sec. 35	- -	e. 06/55
Davis	- -	T. 2 N., R. 1 W., sec. 36	- -	e. 08/55
Davis	- -	T. 2 N., R. 1 W., sec. 35	- -	e. 06/55
Davis	- -	T. 2 N., R. 1 W., sec. 35	- -	e. 06/55
Davis	- -	T. 2 N., R. 1 W., sec. 18	- -	e. 06/55

data for selected ground-water samples--Continued

Time (24 hour)	Water-yielding unit	Depth of well (ft)	Temp (°C)	Gross alpha; U-natural (µg/L)	Gross beta; Sr-90/Y-90 (pCi/L)	Radium-226 planchet (pCi/L)	U-natural; direct fluor. (µg/L)
--	Bolson-fill sediments	--	--	--	11 ± 1	0.1 ± 0.1	2.9 ± 0.3
--	Bolson-fill sediments	704	--	--	20 ± 3	0.1 ± 0.1	4.7 ± 0.5
--	Ogallala Formation	--	16.5	130 ± 70	170 ± 30	0.8 ± 0.2	230 ± 20
--	Soledad Conglomerate Member of Catahoula Tuff	--	--	--	53 ± 8	--	25 ± 3
--	--	400	--	--	25 ± 4	--	0.4 ± 0.4
--	--	360-375	--	--	12 ± 2	--	1.5 ± 0.4
--	Soledad Conglomerate Member of Catahoula Tuff	--	--	--	90 ± 14	--	1.5 ± 0.4
--	Catahoula Tuff	650	--	--	37 ± 6	--	7.0 ± 0.7
--	--	600	--	--	11 ± 2	--	2.6 ± 0.4
--	--	60	11	--	< 6	< 0.1	4.4 ± 0.4
--	--	160	7	--	57 ± 8	1.1 ± 0.2	4.4 ± 0.4
--	--	28	15.5	--	19 ± 3	0.2 ± 0.1	10 ± 1
--	--	58	--	--	< 7.4	0.5 ± 0.1	2.7 ± 0.3
--	--	40	19.5	--	13 ± 2	0.3 ± 0.1	14 ± 1
--	--	50	13	--	14 ± 2	0.1 ± 0.1	24 ± 2
--	--	30	13	--	49 ± 7	0.2 ± 0.1	< 0.4
--	--	60	16.5	--	7 ± 1	0.1 ± 0.1	10 ± 1
--	--	57	18.5	--	20 ± 3	0.4 ± 0.1	14 ± 1
--	--	68	13.5	--	4.9 ± 0.7	0.4 ± 0.1	1.3 ± 0.4
--	--	75	11	--	13 ± 2	0.1 ± 0.1	10 ± 1
--	--	153	5.5	--	< 9.8	0.8 ± 0.2	9.2 ± 0.9
--	--	37	12	--	22 ± 3	0.2 ± 0.1	18 ± 2
--	--	150	18.5	--	< 39	0.1 ± 0.1	3.2 ± 0.4
--	--	14	13	--	67 ± 10	< 0.1	28 ± 3
--	--	141	--	--	< 29	0.7 ± 0.1	8.5 ± 0.9
--	--	60	18.5	--	41 ± 6	0.2 ± 0.1	70 ± 7
--	--	48	17	--	24 ± 2	1.5 ± 0.3	34 ± 3
--	--	254	18	--	< 19	1.1 ± 0.2	13 ± 1
--	--	175	18.5	--	< 10	0.2 ± 0.1	8.5 ± 0.8
--	--	--	--	--	< 8	1.2	0.1
--	--	--	--	--	< 34	0.2	--
--	--	--	--	--	18	5	0.1
--	--	--	--	--	10	0.4	0.1
--	--	--	--	--	1500	39	0.3
--	--	--	--	--	< 8	0.1	0.1
--	--	--	--	--	< 4	0.1	1.4
--	--	--	--	--	< 8	< 0.1	4.1
--	--	--	--	--	< 34	< 0.1	0.8
--	--	--	--	--	< 85	5.2	0.4
--	--	--	--	--	< 17	< 0.1	0.8
--	--	--	--	--	< 45	0.2	2.4
--	--	--	--	--	< 34	< 0.1	2
--	--	--	--	--	< 68	< 0.1	1.6
--	--	--	--	--	< 34	0.2	5.8
--	--	--	--	--	< 34	0.2	2.5
--	--	--	--	--	200	0.1	8.1

County	Nearest community	Location of point of collection	Owner or operator	Date sampled
UTAH (cont.)				
Davis	- -	T. 2 N., R. 1 W., sec. 36	- -	e. 08/55
Davis	- -	T. 2 N., R. 1 W., sec. 35	- -	e. 08/55
Davis	- -	T. 2 N., R. 1 W., sec. 36	- -	e. 08/55
Davis	Mill Pond	T. 2 N., R. 1 W., sec. 35	- -	e. 08/55
Davis	- -	T. 2 N., R. 1 W., sec. 35	- -	e. 08/55
Davis	- -	T. 2 N., R. 1 W., sec. 31	- -	e. 08/55
Davis	- -	T. 2 N., R. 1 W., sec. 18	- -	e. 08/55
Davis	- -	T. 2 N., R. 1 W., sec. 31	- -	e. 08/55
Davis	- -	T. 2 N., R. 1 W., sec. 34	- -	e. 08/55
Beaver	Milford	Milford	City of Milford	e. 12/55
Davis	Sunset	Sunset	Town of Sunset	e. 12/55
Salt Lake	Murray	E. of Murray	- -	e. 12/55
Weber	Roy	2 mi W. of Roy	- -	e. 01/57
Tooele	Dugway Proving Grounds	Dugway Proving Grounds	- -	e. 03/57
Davis	Layton	N. limits of Layton	- -	e. 04/57
Juab	Dugway	SW. of Dugway	- -	e. 05/57
Box Elder	Willard	3 mi S. of Willard	- -	e. 07/57
Box Elder	Willard	4.5 mi SW. of Willard	- -	e. 07/57
Weber	Plain City	1.5 mi N. of Plain City	- -	e. 07/57
Weber	Plain City	2 mi N. of Plain City	- -	e. 07/57
Weber	Plain City	2 mi N. of Plain City	- -	e. 07/57
Weber	Plain City	1.5 mi NE. of Plain City	- -	e. 07/57
Weber	Plain City	2.5 mi NE. of Plain City	- -	e. 07/57
Weber	Plain City	2 mi NE. of Plain City	- -	e. 07/57
Weber	Plain City	3 mi NW. of Plain City	- -	e. 07/57
Weber	Plain City	1 mi NE. of Plain City	- -	e. 07/57
Weber	Plain City	1.5 mi E. of Plain City	- -	e. 07/57
Weber	Plain City	1 mi NW. of Plain City	- -	e. 07/57
Weber	Plain City	7 mi W. of Plain City	- -	e. 07/57
Weber	Plain City	4.5 mi SW. of Plain City	- -	e. 07/57
Weber	Plain City	1.5 mi NE. of Plain City	- -	e. 07/57
Weber	Plain City	7 mi SW. of Plain City	- -	e. 07/57
Weber	Plain City	2.5 mi NE. of Plain City	- -	e. 07/57
Weber	Plain City	1 mi S. of Plain City	- -	e. 07/57
Tooele	Wednover	4 mi ESE. of Windover	- -	e. 07/57
Box Elder	Brigham City	12 mi S. of Brigham City	- -	e. 07/57
San Juan	Glen Canyon	Glen Canyon	- -	4/22/59
San Juan	Glen Canyon	- -	- -	4/23/59
San Juan	Glen Canyon	Lake Canyon	- -	4/22/59
San Juan	Glen Canyon	Cataract Canyon	- -	4/23/59
Salt Lake	Salt Lake City	N. of Salt Lake City, treatment plant	Salt Lake City	7/12/61
Salt Lake	Salt Lake City	Salt Lake City, reservoir pumping station	Salt Lake City	7/12/61
Sale Lake	Salt Lake City	Big Cottonwood Canyon, treatment plant	Salt Lake City	7/12/61
Salt Lake	Salt Lake City	Little Cottonwood Treatment Plant, SE. of Salt Lake City	Metropolitan Water District, Salt Lake City	7/12/61
Utah	- -	Bergin Mine	- -	e. 09/63
Utah	- -	Bergin Mine	- -	e. 09/63
Utah	- -	Bergin Mine	- -	e. 09/63

data for selected ground-water samples--Continued

Time (24 hour)	Water-yielding unit	Depth of well (ft)	Temp (°C)	Gross alpha; U-natural (µg/L)	Gross beta; Sr-90/Y-90 (pCi/L)	Radium-226 planchet (pCi/L)	U-natural; direct fluor. (µg/L)
--	--	--	--	--	< 45	< 0.1	2.3
--	--	--	--	--	< 34	0.2	2.8
--	--	--	--	--	< 34	0.1	3.6
--	--	--	--	--	< 34	0.2	2.9
--	--	--	--	--	< 34	0.2	3.5
--	--	--	--	--	< 34	0.2	7.1
--	--	--	--	--	150	0.1	12
--	--	--	--	--	< 17	0.1	1.5
--	--	--	--	--	< 85	0.4	2.3
--	--	--	--	--	< 17	< 0.1	5.9
--	--	--	--	--	< 17	0.4	< 0.1
--	--	--	--	--	< 14	< 0.1	1.0
--	--	--	--	--	< 17	0.2	< 0.1
--	--	--	--	--	< 34	< 0.1	3.1
--	--	--	--	--	< 17	0.2	5.3
--	--	--	--	--	< 680	1.5	11
--	--	--	--	17.4	< 76	0.5	< 0.1
--	--	--	--	6.2	< 47	0.5	< 0.1
--	--	--	--	--	< 100	0.2	< 0.1
--	--	--	--	0.4	< 8	< 0.1	0.6
--	--	--	--	--	< 38	2.6	< 0.1
--	--	--	--	7.3	< 47	0.3	< 0.1
--	--	--	--	--	< 14	0.2	< 0.1
--	--	--	--	--	< 50	0.7	< 0.1
--	--	--	--	3.9	< 24	0.8	< 0.1
--	--	--	--		< 88	0.9	< 0.1
--	--	--	--		< 160	2.0	< 0.1
--	--	--	--	8.5	< 50	0.5	< 0.1
--	--	--	--		170	--	--
--	--	--	--	0.7	< 15	0.1	< 0.1
--	--	--	--	38.1	< 140	1.7	< 0.1
--	--	--	--	--	< 23	0.5	< 0.1
--	--	--	--	5.9	< 38	0.3	< 0.1
--	--	--	--	0.7	< 18	< 0.1	0.8
--	--	--	--	909	< 3500	2.6	0.1
--	--	--	--	62.3	1400	71	0.4
--	Navajo Sandstone	--	--	< 0.7	4.1 ± 0.7	0.1 ± 0.1	0.4 ± 0.1
--	Wingate Sandstone	--	--	< 1.1	4.0 ± 0.6	0.2 ± 0.1	1.1 ± 0.1
--	Kayenta Formation	--	--	0.9 ± 0.7	4.6 ± 0.7	0.1 ± 0.1	0.5 ± 0.1
--	Rico Formation	--	--	< 23	130 ± 20	15 ± 3	1.4 ± 0.1
1430	--	--	18.5	< 7.5	1.2 ± 0.2	< 0.1	0.8 ± 0.1
930	--	--	18	< 10	3.6 ± 0.5	< 0.1	2.8 ± 0.3
1200	--	--	12	< 5.2	1.8 ± 0.3	< 0.1	0.5 ± 0.1
1030	--	--	15.5	< 7.5	3.8 ± 0.6	< 0.1	0.8 ± 0.1
--	--	--	--	--	--	--	1.1 ± 0.4
--	--	--	--	--	--	--	< 0.4
--	--	--	--	--	--	--	2.4 ± 0.4

Table 1-- *Sample-site data and radiochemical*

County	Nearest community	Location of point of collection	Owner or operator	Date sampled
UTAH (cont.)				
Grand	Cisco	T. 24 S., R. 24 E., 32 mi S. of Cisco, Sulfer Spring	- -	9/23/62
VIRGINIA				
Carroll	Hilltown	Hilltown, pump spigot	Gwium	e. 03/60
WASHINGTON				
San Juan	East Sound	East Sound, Orcas Island	- -	e. 12/54
Whatcom	Concrete	9 mi N. of Concrete	- -	e. 12/54
Snohomish	Everett	10 mi SE. of Everett	- -	e. 01/55
Grant	Moses Lake	Moses Lake	- -	e. 01/56
Clark	Vancouver	Vancouver	- -	e. 01/56
Lewis	Napavine	Napavine	- -	e. 03/57
Kittitas	Ellensburg	Ellensburg	- -	e. 04/57
Whitman	Pullman	Pullman	- -	3/28/57
Stevens	Colville	Colville	- -	e. 06/58
Okanogan	Okanogan	Okanogan	- -	e. 06/58
Whitman	Albion	Albion	- -	3/28/58
Whatcom	Blaine	Blaine	- -	3/26/58
Grant	Moses Lake	Near Moses Lake	- -	e. 06/58
King	Horizon View	Horizon View	- -	4/11/58
Thurston	Olympia	6 mi E. of Olympia	- -	4/17/58
Thurston	Rochester	4 mi NW. of Rochester	- -	4/17/58
Thurston	Olympia	6 mi E. of Olympia	- -	4/20/58
Walla Walla	Walla Walla	SW. of Walla Walla	- -	8/1/58
Spokane	Spokane	T. 25 N., R. 45 E., sec. 11, NE1/4, NW1/4	- -	7/26/61
Spokane	Spokane	T. 25 N., R. 43 E., sec. 11, SE1/4 NE1/4, Spokane	- -	7/26/61
WEST VIRGINIA				
Wirt	Creston	2 mi S. of Creston	- -	12/3/58
Braxton	Orlando	3 mi NW. of Orlando	- -	11/11/58
Kanawha	Sissonville	1 mi SW. of Sissonville	- -	1/15/59
Roane	Peniel	1 mi W. of Peniel	- -	3/4/59
WISCONSIN				
Outagamie	Kaukauna	Kaukauna	- -	e. 02/58
Fond du Lac	Campbellsport	Campbellsport	- -	e. 02/58
Fond du Lac	Campbellsport	Campbellsport	- -	11/4/58
Dane	Madison	Finished water, composite of 4 wells	- -	8/1/61
Outagamie	Kaukauna	Kaukauna	- -	11/5/58
Grant	Dickeyville	Near Dickeyville	- -	9/28/61
Grant	Crow Branch	T. 5 N., R. 1 W., sec. 23, SW1/4, NE1/4	Gene Knutson Farm	9/26/61
Grant	Tennyson	T. 3 N., R. 3 W., sec. 36, NE1/4 SE1/4, Piguitte's no. 2 mine	- -	9/25/61
Grant	Potosi	SW. edge of Potosi, spring	- -	9/25/61
WYOMING				
Sauk	Devil's Lake	T. 11 N., R. 1 E., sec. 12, SE1/4, SW1/4 N. Shore of Devil's Lake, spring	- -	9/20/61
Richland	West Lima	Johnson's Hill	- -	9/22/61
Richland	- -	T. 9 N., R. 1 E., sec. 4, NW1/4 SE1/4, spring	- -	9/22/61

data for selected ground-water samples--Continued

Time (24 hour)	Water-yielding unit	Depth of well (ft)	Temp (°C)	Gross alpha; U-natural (µg/L)	Gross beta; Sr-90/Y-90 (pCi/L)	Radium-226 planchet (pCi/L)	U-natural; direct fluor. (µg/L)
--	Paradox Member of Hermosa Formation	--	--	--	94 ± 14	0.4 ± 0.1	5.6 ± 0.6
--	--	--	--	< 0.2	2.2 ± 0.9	< 0.1	--
--	--	--	--	--	< 11	0.1	0.1
--	--	--	--	--	< 5	< 0.1	0.1
--	--	--	--	--	< 5	< 0.1	0.2
--	--	--	--	--	< 14	< 0.1	< 0.1
--	--	--	--	--	14	< 0.1	0.2
--	--	--	--	--	< 7	< 0.1	< 0.1
--	--	--	--	--	12	< 0.1	< 0.1
--	--	--	--	< 4	< 11	< 0.1	< 0.1
--	--	--	--	< 4	< 12	0.2	2.9
--	--	--	--	7.8	< 17	< 0.1	20.0
--	--	--	--	< 4	< 15	< 0.1	1.2
--	--	--	--	< 3	< 7	0.1	0.6
--	--	--	--	< 5	< 14	< 0.1	5.3
--	--	--	--	< 3	14	< 0.1	0.2
--	--	--	--	< 2	< 8	< 0.1	< 0.1
--	--	--	--	< 2	< 7	< 0.1	< 0.1
--	--	--	--	< 2	< 8	< 0.1	< 0.1
--	--	--	--	--	14.1	0.3	0.1 ± 0.1
--	Gravel	145	9	< 6.2	3.0 ± 0.4	< 0.1	3.9 ± 0.4
--	Gravel	45	9	< 6.1	3.1 ± 0.5	< 0.1	3.7 ± 0.4
--	Burgoon Sandstone	--	--	2000 ± 1600	< 1900	710 ± 110	0.3 ± 0.1
--	Upper Pocono Sandstone and lower Greenbrier Limestone	--	--	< 2400	9400 ± 1400	32.0 ± 6.4	74.0 ± 7.4
--	Oriskany Sandstone	--	--	14 ± 8	29 ± 4	2.5 ± 0.5	0.1 ± 0.1
--	Burgoon Sandstone	--	--	2600 ± 1600	6200 ± 1000	1100 ± 200	< 0.1
--	--	--	--	25	< 38	3.2 ± 0.5	0.5
--	--	--	--	33	< 25	1.3 ± 0.3	0.8
--	--	--	--	--	--	0.9	--
--	--	--	--	< 12	28 ± 4	1.0 ± 0.2	0.5 ± 0.1
--	--	--	--	--	--	5.1 ± 1.0	--
--	St. Peter Sandstone	--	--	--	6.5 ± 1.0	< 0.1	0.6 ± 0.1
--	Prairie du Chien Group	--	--	--	1.7 ± 0.3	0.2 ± 0.1	0.4 ± 0.1
--	Galena Dolomite	--	--	--	12 ± 2	1.0 ± 0.2	0.8 ± 0.1
--	Platteville Formation	--	--	--	7.8 ± 1.2	< 0.1	0.4 ± 0.1
--	Rocks of early Proterozoic age	--	--	--	3.1 ± 0.5	0.2 ± 0.1	8.8 ± 0.9
--	Rocks of St. Croixan Series	--	--	--	3.1 ± 0.5	0.3 ± 0.1	0.2 ± 0.1
--	Rocks of St. Croixan Series	--	--	--	3.1 ± 0.5	< 0.1	< 0.1

County	Nearest community	Location of point of collection	Owner or operator	Date sampled
WYOMING (cont.)				
Dane	Black Earth	T. 11 N., R. 6 E., sec. 12, SW1/4 NW1/4, 4 mi S. of Black Earth	Mr. Wittmers	9/20/61
Washakie	Ten Sleep	1.5 mi N. of Ten Sleep	--	9/28/54
Campbell	Gillette	5 mi E. of Gillette	--	9/28/54
Fremont	Riverton	Riverton	--	9/28/54
Washakie	Worland	3.5 mi S. of Worland	--	9/28/54
Vinta	Lyman	Lyman	--	e. 10/54
Fremont	--	T. 29 N., R. 98 W., sec. 35, NW1/4, Lithia Springs	--	8/20/55
Platte	Wheatland	T. 24 N., R. 68 W., sec. 12, SE1/4 NW1/4, Wheatland no. 6	--	e. 10/55
Carbon	Rawlins	Rawlins no. 3	--	e. 10/55
Cheyenne	Cheyenne	T. 13 N., R. 68 W., sec. 34, SE1/4 NE1/4SE1/4, Cheyenne State no. 5	--	e. 10/55
--	--	T. 40 N., R. 79 W., sec. 22, SE1/4 NE1/4, Salt Creek no. 13	--	e. 10/55
--	--	T. 3 N., R. 1 W., Sec. 5, NW1/4 NE1/4, Steamboat Butte	--	e. 10/55
Goshen	Torrington	Torrington	--	e. 04/57
Weston	Newcastle	Newcastle	--	e. 04/57
Fremont	Riverton	50 mi E. of Riverton	--	e. 05/57
Natrona	Edgerton	Edgerton	--	e. 05/57
--	--	T. 45 N., R. 60 W., sec. 31, SW1/4, spring	--	e. 10/57
--	--	Salt Springs	--	e. 10/57
Niobrara	Lusk	Lusk	--	4/8/58
Platte	Chugwater	Chugwater	--	4/8/58
Campbell	Gillette	Gillette	--	4/9/58
Weston	Osage	Near Osage	--	4/9/58
Crook	Hulett	Hulett	--	4/9/58
Campbell	Gillette	E. of Gillette	--	4/9/58
Carbon	Rawlins	Rawlins	--	4/13/58
Hot Springs	Thermopolis	Big Spring near Thermopolis	--	4/11/58
Albany	Laramie	Laramie	--	4/22/58
Carbon	Shirley Basin	Well no. 4, Shirley Basin	Utah Mining Corporation	7/29/59
Carbon	Shirley Basin	Well no. 3, Shirley Basin	Utah Mining Corporation	7/29/59
Carbon	Shirley Basin	2 mi N. of Shirley Basin, spring	Utah Mining Corporation	7/29/59
Carbon	Shirley Basin	Shirley Basin, spring	Utah Mining Corporation	7/30/59
Carbon	Shirley Basin	T. 28 N., R. 78 W., sec. 28, NW1/4, Shirley Basin	Utah Mining Corporation	9/9/59
Carbon	Shirley Basin	T. 28 N., R. 78 W., sec. 28, SE1/4, Shirley Basin, well no. 4	Utah Mining Corporation	9/11/59
Carbon	Shirley Basin	T. 28 N., R. 78 W., sec. 33, NW1/4 Shirley Basin	--	11/11/59
Carbon	Shirley Basin	T. 28 N., R. 78 W., sec. 28, NW1/4, Shirley Basin	--	11/6/59
Carbon	Medicine Bow	27 mi N. of Medicine Bow	--	3/9/60
Carbon	Shirley Basin	T. 27 N., R. 78 W., sec. 14, NW1/4, Shirley Basin	Kerr McGee	4/5/60
Carbon	Shirley Basin	T. 28 N., R. 78 W., sec. 28, NW1/4, well no. 4, Shirley Basin	Utah Mining Corporation	4/4/60

data for selected ground-water samples--Continued

Time (24 hour)	Water-yielding unit	Depth of well (ft)	Temp (°C)	Gross alpha; U-natural (µg/L)	Gross beta; Sr-90/Y-90 (pCi/L)	Radium-226 planchet (pCi/L)	U-natural; direct fluor. (µg/L)
--	Dolomite	--	--	--	1.3 ± 0.2	< 0.1	< 0.1
--	--	--	--	--	< 14	0.9	4.1
--	--	--	--	--	< 14	0.3	< 0.1
--	--	--	--	--	< 17	0.2	< 0.1
--	--	--	--	--	< 85	0.2	3.9
--	--	--	--	--	< 34	0.9	0.8
--	--	--	--	--	--	< 0.1	--
--	--	--	--	--	29	< 0.1	14
--	--	--	--	--	< 5	0.3	< 0.1
--	--	--	--	--	< 8	0.2	1.5
--	--	--	--	--	< 170	2.1	< 0.1
--	--	--	--	--	< 1100	12	< 0.1
--	--	--	--	< 1	< 34	0.7	1.8
--	--	--	--	--	50	0.1	< 0.1
--	--	--	--	2500	1100	40	2100
--	--	--	--	--	< 23	< 0.1	0.7
--	--	--	--	< 22	< 70	0.4	12
--	--	--	--	< 420	< 1700	0.7	17
--	--	--	--	4.5	< 12	< 0.1	11
--	--	--	--	< 4	31	0.1	12
--	--	--	--	< 6	< 17	0.3	< 0.1
--	--	--	--	< 5	19	0.2	2.2
--	--	--	--	12	< 25	1.7	22
--	--	--	--	< 13	< 38	0.4	9.4
--	--	--	--	33	76	3.5	24
--	--	--	--	83	217	17	0.2
--	--	--	--	< 4	< 12	0.1	1.8
--	Wind River Formation	--	--	67 ± 30	110 ± 20	19 ± 4	19 ± 2
--	Wind River Formation	--	--	18 ± 10	40 ± 6	8.5 ± 1.7	16 ± 2
--	Wind River Formation	--	--	3.6 ± 2.5	19 ± 3	< 0.1	19 ± 2
--	Arikaree Formation	--	--	5 ± 3	12 ± 2	0.4 ± 0.1	7.8 ± 0.8
--	Wind River and White River Formations	--	--	28 ± 13	57 ± 9	1.9 ± 0.4	76 ± 8
--	Wind River and White River Formations	--	--	51 ± 26	150 ± 20	15 ± 3	17 ± 2
--	--	--	--	44 ± 22	48 ± 7	6.8 ± 1.4	14 ± 1
--	Wind River Formation	--	--	14 ± 8	29 ± 4	5.2 ± 1.0	15 ± 2
--	--	--	--	17 ± 10	25 ± 4	--	--
--	Wind River Formation	150	10	260 ± 100	380 ± 60	100 ± 20	14 ± 1
--	Wind River and White River Formations	460	9	50 ± 23	65 ± 10	8.7 ± 1.8	17 ± 2

Table 1-- *Sample-site data and radiochemical*

County	Nearest community	Location of point of collection	Owner or operator	Date sampled
WYOMING (cont.)				
Carbon	Shirley Basin	T. 28 N., R. 78 W., sec. 28, NE1/4 SE1/4, well no. 7, Shirley Basin	Utah Mining Corporation	4/14/60
Carbon	Shirley Basin	T. 27 N. R. 79 W., sec. 16, SW1/4, Shirley Basin	--	7/6/60
Carbon	Shirley Basin	Shirley Basin	--	7/6/60
Carbon	Shirley Basin	T. 27 N., R. 79 W., sec. 16, NW1/4, Shirley Basin	--	7/7/60
Carbon	Shirley Basin	T. 27 N., R. 79 W., sec. 9, SE1/4, Shirley Basin	--	7/6/60
Carbon	Shirley Basin	T. 27 N., R. 79 W., sec. 9, SE1/4, Shirley Basin	--	7/6/60
Carbon	Shirley Basin	T. 27 N., R. 79 W., sec. 10, NW1/4, Shirley Basin	--	7/7/60
Carbon	Shirley Basin	T. 27 N., R. 79 W., sec. 11, NE1/4,	--	7/7/60
Carbon	Shirley Basin	T. 27 N., R. 79 W., sec. 11, SE1/4, Shirley Basin	--	7/7/60
Carbon	Shirley Basin	T. 28 N., R. 78 W., sec. 22, NE1/4, Shirley Basin, spring	--	6/7/60
Carbon	Shirley Basin	T. 28 N., R. 79 W., sec. 21, NE1/4, Shirley Basin	--	8/5/60
Carbon	Shirley Basin	T. 28 N., R. 78 W., sec. 20, NE1/4, spring, Shirley Basin	--	8/5/60
Albany	Shirley Basin	T. 27 N., R. 76 W., sec. 18, SW1/4, spring, Shirley Basin	--	8/28/60
Albany	Shirley Basin	T. 28 N., R. 77 W., sec. 1, NE1/4, spring, Shirley Basin	Taylor Ranch	9/4/60
Carbon	Shirley Basin	T. 28 N., R. 80 W., sec. 28, spring, 1 mi. S. and 0.25 mi W. of intersection of Shirley Basin Road and Wyoming Highway 487	--	9/15/60
Albany	Shirley Basin	T. 28 N., R. 76 W., sec. 19, 3 ft from road, spring, Shirley Basin	--	9/12/60
Albany	Shirley Basin	T. 27 N., R. 76 W., sec. 17, SW1/4, 1 mi. W. & 1 mi S. of Haladay Ranch, spring	--	9/12/60
Carbon	Shirley Basin	T. 28 N., R. 78 W., sec. 22, 1 mi. NW of Utah Mining, Sasso and Simmons camp	--	9/14/60
Carbon	Shirley Basin	T. 28 N., R. 79 W., sec. 29, N. of Shirley Basin Ridge Road, 3 mi from Wyoming Highway 487	--	9/15/60
Carbon	Shirley Basin	T. 28 N., R. 61 W., sec. 8, SW1/4, Old Dalling Ranch, W. side of Shirley Basin	--	9/10/60
Carbon	Shirley Basin	T. 27 N., R. 80 W., sec. 13, SE1/4, spring, Shirley Basin	--	9/10/60
Carbon	Shirley Basin	T. 28 N., R. 78 W., sec. 28, NW1/4, well no. 4, Shirley Basin	Utah Mining Corporation	7/5/60
Carbon	Shirley Basin	T. 27 N., R. 78 W., sec. 9, NW1/4, Shirley Basin	--	7/29/60
Carbon	Shirley Basin	T. 28 N., R. 78 W., sec. 28, NW1/4, well no. 4, Shirley Basin	Utah Mining Corporation	9/2/60
Carbon	Shirley Basin	Shirley Basin	Utah Mining Corporation	9/8/60
Carbon	Shirley Basin	T. 28 N., R. 78 W., sec. 28, well no. 9, Shirley Basin	Utah Mining Corporation	9/15/60

data for selected ground-water samples--Continued

Time (24 hour)	Water-yielding unit	Depth of well (ft)	Temp (°C)	Gross alpha; U-natural (µg/L)	Gross beta; Sr-90/Y-90 (pCi/L)	Radium-226 planchet (pCi/L)	U-natural; direct fluor. (µg/L)
--	--	--	--	32 ± 17	42 ± 6	1.4 ± 0.3	15 ± 2
--	--	100		--	--	2.4 ± 0.5	30 ± 3
--	--	120	9	--	--	0.7 ± 0.1	8.3 ± 0.8
--	--	135	--	--	--	1.1 ± 0.2	0.5 ± 0.1
--	--	130	--	--	--	2.9 ± 0.6	420 ± 40
--	--	150	--	--	--	4.7 ± 0.9	380 ± 40
--	--	180	--	--	--	1.5 ± 0.3	20 ± 2
--	--	180	--	--	--	0.5 ± 0.2	6.4 ± 0.6
--	--	160	--	--	--	2.8 ± 0.6	65 ± 6
--	White River Formation	--	7	9.5 ± 5.1	16 ± 2	0.3 ± 0.1	25 ± 2
--	White River Formation	--	6	--	28 ± 4	0.3 ± 0.1	52 ± 5
--	White River Formation	--	12	8.1 ± 4.2	18 ± 3	3.5 ± 0.7	19 ± 2
--	White River Formation	--	11.5	8.6 ± 4.8	29 ± 4	0.4 ± 0.1	22 ± 2
--	White River Formation	--	6.5	--	8.7 ± 1.3	0.8 ± 0.2	12 ± 1
--	White River Formation	--	10	4.6 ± 2.4	11 ± 2	0.5 ± 0.1	0.4 ± 0.1
--	White River Formation	--	9	4.0 ± 2.5	10 ± 2	0.2 ± 0.1	5.2 ± 0.5
--	White River Formation	--	15	17 ± 9	28 ± 4	1.2 ± 0.2	15 ± 2
--	White River Formation	55	9	--	32 ± 5	1.2 ± 0.2	61 ± 6
--	White River Formation	--	8	21 ± 11	19 ± 3	1.5 ± 0.3	1.9 ± 0.2
--	Granite	--	11	--	4.5 ± 0.7	1.9 ± 0.4	42 ± 4
--	Wind River Formation	--	--	< 23	3.9 ± 0.6	0.1 ± 0.1	0.1 ± 0.1
--	Wind River and White River Formations	460	9.5	50 ± 24	48 ± 7	18 ± 4	14 ± 1
--	Wind River Formation	250	9	5.5 ± 4.4	8.8 ± 1.3	0.8 ± 0.2	0.3 ± 0.1
--	Wind River and White River Formations	480	10	55 ± 28	36 ± 5	17 ± 3	10 ± 1
--	Wind River Formation	--	10.5	--	5200 ± 790	1700 ± 340	25000 ± 2000
--	Wind River and White River Formations	435	10	56 ± 28	47 ± 7	8.1 ± 1.2	39 ± 4

Table 1-- *Sample-site data and radiochemical*

County	Nearest community	Location of point of collection	Owner or operator	Date sampled
WYOMING (cont.)				
Albany	Shirley Basin	T. 26 N., R. 77 W., sec. 12, Cram Ranch, 5.5 mi SW. of Hines place, Shirley Basin	--	9/13/60
Carbon	Shirley Basin	T. 27 N., R. 78 W., sec. 28, well no. 11, Shirley Basin	Utah Construction Company	9/10/60
Carbon	Shirley Basin	T. 28 N., R. 79 W., sec. 7, 0.25 mi NE. of Shirley Basin	--	9/10/60
Albany	Shirley Basin	T. 28 N., R. 77 W., sec. 2, NW1/4, NW. of Shirley Basin, spring	Taylors Ranch	9/12/60
Carbon	Shirley Basin	T. 27 N., R. 78 W., sec. 9, NW1/4, Tidewater Pit and Shirley Basin, 5 mi S. of Utah Construction Company	--	9/11/60
Carbon	Shirley Basin	T. 27 N., R. 77 W., sec. 36, SW1/4, 1 mi E. of Hines Ranch, Shirley Basin	--	9/8/60
Carbon	Shirley Basin	T. 27 N., R. 79 W., sec. 36, SW1/4, SW. of Utah Construction Company, spring, Shirley Basin	--	9/11/60
Albany	Shirley Basin	T. 28 N., R. 76 W., sec. 6, SW1/4, 1 block NW. of stucco house, NW. corner of Shirley Basin, spring	--	9/12/60
Carbon	Shirley Basin	T. 26 N., R. 80 W., sec. 1, 1 mi. NW of Shirley Basin reservoir, spring	--	9/13/60
Carbon	Shirley Basin	T. 27 N., R. 79 W., sec. 9, SE1/4, Shirley Basin	--	9/15/60
Carbon	Shirley Basin	T. 27 N., R. 79 W., sec. 15, NW1/4, Shirley Basin	--	9/15/60
Carbon	Shirley Basin	T. 27 N., R. 79 W., sec. 11, SW1/4, Shirley Basin	--	9/15/60
Carbon	Shirley Basin	T 28 N., R. 78 W., sec. 28, NW1/4, Shirley Basin, well 1-B, Utah Construction Company wash house	Utah Construction Company	9/15/60
Natrona	Shirley Basin	T. 29 N., R. 77 W., sec. 32, NW1/4, NE of Utah Construction Company, spring	--	9/9/60
Natrona	Shirley Basin	T. 29 N., R. 77 W., sec. 32, SW1/4, NE1/4, NE. of Utah Construction Company, spring	--	9/9/60
Carbon	Shirley Basin	T. 28 N., R. 77 W., sec. 1, NW1/4, spring, NE. part of Shirley Basin	Tobin Ranch	9/11/60
Albany	Shirley Basin	T. 27 N., R. 76 W., sec. 18, NE1/4, SE. corner of Shirley Basin	Holiday Ranch	9/12/60
Albany	Shirley Basin	T. 27 N., R. 79 W., sec. 15, SW1/4, Spar claim	--	e. 09/60
Carbon	Shirley Basin	T. 28 N., R. 78 W., sec. 28, NW1/4, well no. 7	Utah Mining Company	9/8/60
Carbon	Shirley Basin	T. 27 N., R. 79 W., sec. 1, SW1/4, Shirley Basin	--	e. 09/60
Carbon	Shirley Basin	T. 28 N., R. 78 W., sec. 28, NW1/4 SW1/4, Utah shaft house, well no. 14	--	9/8/60
Fremont	Shoshoni	T. 3 N., R. 6 E., sec. 15, SW1/4 NW1/4, well no. 2	City of Shoshoni	10/27/60

data for selected ground-water samples--Continued

Time (24 hour)	Water-yielding unit	Depth of well (ft)	Temp (°C)	Gross alpha; U-natural (µg/L)	Gross beta; Sr-90/Y-90 (pCi/L)	Radium-226 planchet (pCi/L)	U-natural; direct fluor. (µg/L)
--	Thermopolis Shale	372	13.5	7.8 ± 3.4	17 ± 3	1.0 ± 0.1	4.7 ± 0.5
--	White River and Wind River Formations	435	10.5	--	160 ± 20	260 ± 50	47 ± 5
--	White River Formation	--	17	11 ± 8	68 ± 10	0.3 ± 0.1	0.6 ± 0.1
--	Wind River Formation	--	10	1.7 ± 1.3	7.7 ± 1.2	0.2 ± 0.1	2.7 ± 0.3
--	White River Formation	--	10	74 ± 37	58 ± 9	10 ± 2	3.5 ± 0.4
--	Niobrara Formation	--	11	< 23	68 ± 10	0.3 ± 0.1	3.2 ± 0.3
--	Wind River Formation and Steele Shale	--	--	7.8 ± 4.6	8.2 ± 1.2	0.4 ± 0.1	0.5 ± 0.1
--	White River Formation and Madison Limestone	--	10	4.6 ± 2.6	< 1.3	0.5 ± 0.1	8.3 ± 0.8
--	Wind River Formation	--	13.5	30 ± 19	40 ± 6	0.1 ± 0.1	< 0.1
--	Wind River Formation	--	10	38 ± 19	35 ± 5	3.4 ± 0.7	16 ± 2
--	Wind River Formation	--	10	72 ± 36	50 ± 8	8.4 ± 1.9	91 ± 9
--	Wind River Formation	--	9.5	39 ± 20	30 ± 5	2.0 ± 0.4	26 ± 3
--	Wind River and White River Formations	--	12	110 ± 52	60 ± 9	2.1 ± 0.3	67 ± 7
--	Arikaree Formation	--	18.5	2.7 ± 2.1	11 ± 2	0.8 ± 0.1	2.0 ± 0.2
--	Arikaree Formation	--	18.5	--	9.1 ± 1.4	0.8 ± 0.1	1.6 ± 0.2
--	White River Formation	--	6	--	11 ± 2	0.6 ± 0.1	18 ± 2
--	White River Formation	22	5.5	--	37 ± 6	1.2 ± 0.2	38 ± 4
--	--	--	10	--	66 ± 10	11 ± 2	120 ± 10
--	Wind River and White River Formations	460	9.5	--	20 ± 3	6.3 ± 1.3	15 ± 2
--	--	--	9	--	9.2 ± 1.4	0.3 ± 0.1	7.5 ± 0.8
--	Wind River and White River Formations	480	10	--	210 ± 30	28 ± 6	20 ± 2
--	Wind River Formation	--	--	5.7 ± 3.3	4.1 ± 0.6	1.0 ± 0.1	0.1 ± 0.1

Table 1-- *Sample-site data and radiochemical*

County	Nearest community	Location of point of collection	Owner or operator	Date sampled
WYOMING (cont.)				
Fremont	Riverton	R. 1 N., R. 4 E., sec. 27, SE1/4, SW1/4	City of Riverton	10/21/60
Fremont	Pavillion	T. 3 N., R. 2 E., sec. 7, SW1/4 SW1/4, well no. 1	Midvale Irrigation	10/29/60
Fremont	North Portal	T. 4 N., R. 3 E., sec. 36, SW1/4,NE1/4 Tenny Farm	W. L. Marlatt, Riverton	10/29/60
Fremont	Moneta	T. 37 N., R. 91 W., sec. 23, NE1/4 SW1/4, tap water	--	10/18/60
Fremont	Kinnear	T. 2 N., R. 2 E., sec. 18, NE1/4, SE1/4	Kinnear Post Office	11/1/60
Carbon	Shirley Basin	T. 28 N., R. 78 W., sec. 28, NW1/4, well no. 7	Utah Mining Corporation	3/9/61
Carbon	Shirley Basin	T. 28 N., R. 78 W., sec. 28, NW1/4	Utah Mining Corporation	6/6/61
Johnson	Buffalo	T. 51 N., R. 83 W., sec. 4, NW1/4, SW1/4, NW. of Buffalo	Clarence Tarbet	6/31/61
Sheridan	Ulm	T. 54 N., R. 81 W., sec. 14, NE1/4 SW1/4	School	8/29/61
Sheridan	Leiter	T. 56 N., R. 78 W., sec. 22, NE1/4 SW1/4	Buffalo Land and Cattle Company	6/30/61
Sheridan	Sheridan	T. 57 N., R. 80 W., sec. 31, NW1/4 NW1/4, NE. of Sheridan	Charley Scrutchfield	8/29/60
Sheridan	Sheridan	T. 58 N., R. 20 W., sec. 30, NE1/4 SW1/4, N. of Sheridan	Cleo Moreland	8/29/61
Fremont	Riverton	T. 33 N., R. 90 W., sec. 23, NW1/4 SW1/4, 53 mi E. of Riverton	Utah Construction Company	9/19/61
Carbon	Shirley Basin	T. 28 W., R. 78 W., sec. 28, well no. 7	Utah Construction Company	10/4/61
Sweetwater	Green River	T. 18 N., R. 110 W., sec. 17, NW1/4, 24 mi W. of Green River	Covey's Little America	4/16/62
Sweetwater	West Green River	T. 19 N., R. 110 W., sec. 22, SW1/4, 27 mi W. of Green River, Westvaco Mine	FMC Corporation	4/11/62
Sweetwater	Green River	T. 18 N., R. 107 W., sec. 22, NE1/4, Green River Brewery	Dr. E. A. Gaenssion, Green River	4/13/62
Sweetwater	Green River	T. 20 N., R. 109 W., sec. 18, NE1/4, 20 mi NW. of Green River	Stauffer Chemical Company	4/13/62
Carbon	Shirley Basin	T. 28 N., R. 78 W., sec. 28	Utah Mining Corporation	7/6/62
Carbon	Medicine Bow	T. 28 N., R. 82 W., sec. 22, SE1/4, NW. of Medicine Bow	--	11/9/62
Carbon	Medicine Bow	T. 28 N., R. 82 W., sec. 36, SE1/4, NW. of Medicine Bow	Gas Hills Uranium Company	11/8/62
Carbon	Medicine Bow	T. 27 N., R. 81 W., sec. 6, NW1/4, NW. of Medicine Bow	Gas Hills Uranium Company	11/8/62
Carbon	Medicine Bow	T. 28 N. R. 81 W., sec. 31, SW1/4, NW. of Medicine Bow	Gas Hills Uranium Company	11/8/62
Natrona	Shirley Basin	T. 29 N., R. 79 W., sec. 34, NW1/4, spring	--	10/3/61
Carbon	Shirley Basin	T. 27 N., R. 78 W., sec. 4, SE1/4	Tidewater Oil Company	10/1/61
Converse	--	T. 29 N., R. 75 W., sec. 28, La Prele Creek Ranger Station, Cold Spring	U.S. Forest Service	8/25/62
Natrona	Shirley Basin	T. 29 N., R. 80 W., sec. 22, NW1/4, spring	--	9/1/62

data for selected ground-water samples--Continued

Time (24 hour)	Water-yielding unit	Depth of well (ft)	Temp (°C)	Gross alpha; U-natural (µg/L)	Gross beta; Sr-90/Y-90 (pCi/L)	Radium-226 planchet (pCi/L)	U-natural; direct fluor. (µg/L)
--	Wind River Formation	544	14	2.7 ± 2.0	3.8 ± 0.6	0.3 ± 0.1	0.2 ± 0.1
--	Wind River Formation	500	--	6.5 ± 4.1	3.8 ± 0.6	0.2 ± 0.1	0.2 ± 0.1
--	Wind River Formation	120	--	98 ± 46	56 ± 8	0.8 ± 0.1	84 ± 8
--	Wind River Formation	265	--	12 ± 8	< 8	0.3 ± 0.1	< 0.1
--	Wind River Formation	494	--	7.2 ± 3.8	8.9 ± 1.3	1.4 ± 0.3	< 0.1
1200	Wind River and White River Formations	460	9	48 ± 22	40 ± 6	12.0 ± 2.0	21 ± 2
--	Wind River and White River Formations	460	9	53 ± 28	29 ± 4	9.7 ± 1.9	24 ± 2
--	--	205	14	--	--	--	4 ± 0
--	Wasatch Formation	110	--	--	--	--	< 0.1
--	Fort Union Formation	165	15	--	--	--	< 0.1
--	Wasatch Formation	160	11	--	--	--	< 0.1
--	Fort Union Formation	480	13	--	--	--	< 0.1
--	Cloverly Formation	1048	20	--	12 ± 2	2.1 ± 0.4	0.2 ± 0.1
--	Wind River and White River Formations	--	9	--	29 ± 4	7.7 ± 1.5	25 ± 3
--	Wasatch Formation	2150	16	--	43 ± 6	1.0 ± 0.2	< 0.1
--	Wilkins Peak Member of Green River Formation	1500	--	3000 ± 1700	3800 ± 600	260 ± 50	2100 ± 210
--	Tipton Shale Member of Green River Formation	764	16	--	61 ± 9	0.3 ± 0.1	0.9 ± 0.1
--	Laney Member of Green River Formation	1645	9	--	570 ± 80	17 ± 3	5.2 ± 0.5
--	Wind River Formation	460	9.5	--	30 ± 3	6.7 ± 1.3	34 ± 3
--	White River Formation	556	--	--	7 ± 1	0.3 ± 0.1	1.7 ± 0.4
--	Wind River Formation	240	--	--	7.7 ± 1.2	0.5 ± 0.1	< 0.4
--	White River Formation	185	--	--	8.1 ± 1.2	1.3 ± 0.3	0.6 ± 0.4
--	Wind River Formation	--	--	--	23 ± 3	5.2 ± 1.0	< 0.4
--	White River and Arikaree Formations	--	6	--	9.5 ± 0.1	0.1 ± 0.1	9.7 ± 1.9
--	Wind River Formation	--	9	--	1200 ± 200	260 ± 50	12 ± 1
--	Sherman Diorite	--	10	--	3.3 ± 0.5	0.5 ± 0.1	1.0 ± 0.4
--	White River Formation	--	10	--	14 ± 2	0.2 ± 0.1	18 ± 2

County	Nearest community	Location of point of collection	Owner or operator	Date sampled
WYOMING (cont.)				
Carbon	Shirley Basin	Shirley Basin, mine drainage	Utah Mine and Construction Co	10/4/62
Carbon	Medicine Bow	T. 27 N., R. 82 W., sec. 20, SE1/4, NW. of Medicine Bow, spring	--	11/12/62
Carbon	Medicine Bow	T. 28 N., R. 81 W., sec. 33, NW1/4, NW. of Medicine Bow, seeping spring	Gas Hills Uranium Company	11/9/62
Carbon	Medicine Bow	T. 28 N., R. 82 W., sec. 34, SE1/4, NW. of Medicine Bow, flowing spring	Gas Hills Uranium Company	11/12/62
Carbon	Medicine Bow	T. 28 N., R. 81 W., sec. 31, NE1/4, NW. of Medicine Bow, seeping spring	Gas Hills Uranium Company	11/9/62
Carbon	Medicine Bow	T. 26 N., R. 85 W., sec. 21, NE1/4, W. of Medicine Bow, flowing spring	Carl Anderson, Mills	11/10/62
Carbon	Medicine Bow	T. 28 N., R. 82 W., sec. 35, SE1/4, NW. of Medicine Bow, springs	Gas Hills Uranium Company	11/9/62
Carbon	Medicine Bow	T. 28 N., R. 81 W., sec. 33, SE1/4, NW. of Medicine Bow, spring	Gas Hills Uranium Company	11/9/62
Carbon	Medicine Bow	T. 27 N., R. 82 W., sec. 24, SE1/4, NW. of Medicine Bow, seeping spring	Gas Hills Uranium Company	11/12/62
Carbon	Medicine Bow	T. 27 N., R. 81 W., sec. 11, SW1/4, NW. of Medicine Bow, spring	Gas Hills Uranium Company	11/13/62
Carbon	Medicine Bow	T. 28 N., R. 81 W., sec. 32, NW1/4, NW. of Medicine Bow, spring	Gas Hills Uranium Company	11/9/62
Carbon	Medicine Bow	T. 28 N., R. 85 W., sec. 20, NE1/4, W. of Medicine Bow, spring	Gas Hills Uranium Company	11/10/62
Carbon	Medicine Bow	T. 26 N., R. 84 W., sec. 9, SW1/4, W. of Medicine Bow, spring	--	11/10/62
Carbon	Medicine Bow	T. 27 N., R. 82 W., sec. 22, NE1/4, NW. of Medicine Bow, spring	--	11/12/62
Carbon	Medicine Bow	T. 26 N., R. 85 W., sec. 1, SE1/4, spring	--	12/3/62
Carbon	Alcova	T. 28 N., R. 82 W., sec. 17, NW1/4, 100 ft W. of Old Demorest spring	--	11/30/62
Carbon	Medicine Bow	T. 27 N., R. 81 W., sec. 6, SW1/4, NW. of Medicine Bow	Gas Hills Uranium Company	11/8/62
Carbon	Medicine Bow	T. 27 N., R. 82 W., sec. 1, NE1/4, NW. of Medicine Bow	Gas Hills Uranium Company	11/8/62
Carbon	Medicine Bow	T. 28 N., R. 82 W., sec. 28, NE1/4, NW of Medicine Bow, 400 ft S. of Reservoir	Gas Hills Uranium Company	12/1/62
Carbon	Medicine Bow	T. 27 N., R. 81 W., sec. 10, SW1/4, NW. of Medicine Bow	Gas Hills Uranium Company	11/23/62
Carbon	Medicine Bow	T. 28 N., R. 81 W., sec. 30, NW1/4, NW. of Medicine Bow	Gas Hills Uranium Company	12/1/62
Fremont	Riverton	T. 33 N., R. 90W., sec. 28, SW1/4, 50 mi SE. of Riverton	Ormsbee Development	11/19/62
Fremont	Riverton	T. 33 N., R. 90 W., sec. 32, NE1/4, 50 mi SE. of Riverton	Federal Partners	11/19/62
Carbon	Alcova	T. 26 N., R. 85 W., sec. 36, SW1/4, S. of Alcova	--	6/26/63
Natrona	Alcova	T. 29 N., R. 83 W., sec. 28, NW1/4, S. of Alcova, spring	--	12/3/62
Carbon	Alcova	T. 28 N., R. 83 W., sec. 5, SW1/4, S. of Alcova, W. side of Canyon Creek, spring	--	12/3/62

data for selected ground-water samples--Continued

Time (24 hour)	Water-yielding unit	Depth of well (ft)	Temp (°C)	Gross alpha; U-natural (µg/L)	Gross beta; Sr-90/Y-90 (pCi/L)	Radium-226 planchet (pCi/L)	U-natural; direct fluor. (µg/L)
--	Wind River Formation	--	--	--	19000 ± 3000	2200 ± 400	49000 ± 5000
--	Wind River Formation	--	--	--	13 ± 2	< 0.1	< 0.4
--	White River Formation	--	--	--	14 ± 2	0.6 ± 0.1	5.3 ± 0.5
--	White River Formation	--	--	--	6.3 ± 0.9	0.2 ± 0.1	6.4 ± 0.6
--	White River Formation	--	--	--	35 ± 5	0.4 ± 0.1	14 ± 1
--	--	--	--	--	5.2 ± 0.7	0.1 ± 0.1	0.6 ± 0.4
--	White River Formation	--	--	--	9.3 ± 1.4	< 0.1	9.2 ± 0.9
--	White River Formation	--	--	--	38 ± 6	< 0.1	4.0 ± 0.4
--	Wind River Formation	--	--	--	50 ± 5	0.2 ± 0.1	0.2 ± 0.2
--	Wind River Formation	--	--	--	8.4 ± 1.2	0.8 ± 0.2	2.2 0.4
--	White River Formation	--	--	--	34 ± 5	0.3 ± 0.1	4.1 ± 0.4
--	--	--	--	--	4.0 ± 0.6	0.1 ± 0.1	1.0 ± 0.4
--	White River Formation	--	--	--	9.8 ± 1.5	0.1 ± 0.1	12 ± 1
--	Wind River Formation	--	--	--	20 ± 3	0.2 ± 0.1	1.9 ± 0.4
--	White River Formation	--	--	--	88 ± 13	0.3 ± 0.1	4.0 ± 0.4
--	White River Formation	--	--	--	4.3 ± 0.6	< 0.1	4.4 ± 0.4
--	Wind River Formation	165	--	--	8.6 ± 1.3	1.4 ± 0.3	< 0.4
--	Wind River Formation	160	--	--	7.2 ± 1.1	0.7 ± 0.1	< 0.4
--	White River Formation	510	--	--	25 ± 04	2.0 ± 0.4	1.6 0.4
--	Wind River Formation	260	--	--	86 ± 13	2.4 ± 0.5	2.7 ± 0.4
--	White River Formation	540	--	--	13 ± 2	1.0 ± 0.2	0.9 ± 0.4
--	Wind River Formation	105	--	--	46 ± 7	11 ± 2	2.0 ± 0.4
--	Wind River Formation	207	--	--	35 ± 5	6.2 ± 1.2	< 0.4
--	--	500	--	--	41 ± 6	0.1 ± 0.1	8.1 ± 0.8
--	White River Formation	--	--	--	140 ± 20	0.3 ± 0.1	8.6 ± 0.9
--	--	--	--	--	13 ± 2	0.4 ± 0.1	12 ± 1

County	Nearest community	Location of point of collection	Owner or operator	Date sampled
WYOMING (cont.)				
Carbon	Medicine Bow	T. 27 N., R. 82 W., sec. 17, SW1/4, NW. of Medicine Bow, spring in N. Wolf Canyon	--	11/29/62
Carbon	Alcova	T. 28 N., R. 82 W., sec. 10, NE1/4, S. of Alcova, spring above reservoir	--	11/30/62
Carbon	Medicine Bow	T. 27 N., R. 82 W., sec. 8, NE1/4, NW. of Medicine Bow, spring	--	11/29/62
Carbon	Medicine Bow	T. 28 N., R. 81 W., sec. 26, NW1/4, spring at head of Stinking Spring Creek	--	12/1/62
Carbon	Alcova	T. 28 N., R. 83 W., sec. 24, NE1/4, SE. of Alcova, Josendal Springs	--	12/3/62
Carbon	Alcova	T. 27 N., R. 85 W., sec. 23, NE1/4, SW. of Alcova, Deweese Creek spring	--	12/3/62
Carbon	Alcova	T. 28 N., R. 82 W., sec. 4, NE1/4, S. of Alcova, spring	--	11/30/62
Carbon	Medicine Bow	T. 28 N., R. 81 W., sec. 8, NW1/4, N. of Medicine Bow, spring	--	12/1/62
Carbon	Medicine Bow	T. 27 N., R. 82 W., sec. 11, SW1/4, NW. of Medicine Bow, spring	--	11/29/62
Carbon	Medicine Bow	T. 27 N., R. 80 W., sec. 7, NW1/4, NW. of Medicine Bow, spring	--	11/24/62
Natrona	Alcova	T. 29 N., R. 82 W., sec. 28, SW1/4, SE. of Alcova, spring	Sanford Cattle Company	6/27/63
Carbon	--	T. 25 N., R. 81 W., sec. 31, NW1/4, spring	--	7/11/63
Carbon	--	T. 25 N., R. 81 W., sec. 31, NW1/4, spring	--	7/11/63
Carbon	--	T. 25 N., R. 81 W., sec. 30, SW1/4, spring	Manning	7/11/63
Carbon	--	T. 25 N., R. 81 W., sec. 31, NW1/4, spring	Manning	7/11/63
Carbon	--	T. 25 N., R. 81 W., sec. 31, NW1/4, spring	--	7/11/63
Carbon	--	T. 25 N., R. 82 W., sec. 36, NE1/4, spring	--	7/19/63
Carbon	Smith Park	T. 24 N., R. 82 W., sec. 1, NW1/4, spring	Union Pacific Railroad	7/11/63
Converse	--	T. 37 N., R. 73 W., north pasture	Dick Hornbuckle	e. 03/64
Natrona	--	Globe underground mine	Globe Mining, Gas Hills	7/16/64
Natrona	--	Globe underground mine	Globe Mining, Gas Hills	7/16/64
Natrona	--	Globe underground mine, no. 4 settling pond	Globe Mining, Gas Hills	7/16/64
Natrona	--	Globe underground mine, discharge pipe	Globe Mining, Gas Hills	7/16/64
Natrona	Natrona	--	Globe Mining, Gas Hills	7/16/64
Natrona	--	Globe mine	Globe Mining, Gas Hills	7/16/64
Fremont	Lysite	T. 39 N., R. 92 W., sec. 11, N. of Lysite, oil well	--	10/13/64
Carbon	Kortes Dam	T. 26 N., R. 84 W., sec. 24, NE1/4, W. of Kortes Dam, spring	--	7/19/63

data for selected ground-water samples--Continued

Time (24 hour)	Water-yielding unit	Depth of well (ft)	Temp (°C)	Gross alpha; U-natural (µg/L)	Gross beta; Sr-90/Y-90 (pCi/L)	Radium-226 planchet (pCi/L)	U-natural; direct fluor. (µg/L)
--	White River Formation	--	--	--	25 ± 4	1.1 ± 0.2	0.9 ± 0.4
--	White River Formation	--	--	--	16 ± 2	0.2 ± 0.1	3.7 ± 0.4
--	Wind River Formation	--	--	--	55 ± 8	2.4 ± 0.5	1.1 ± 0.4
--	--	--	--	--	25 ± 4	2.5 ± 0.5	1.0 ± 0.4
--	White River Formation	--	--	--	8 ± 1	0.3 ± 0.1	6.2 ± 0.6
--	--	--	--	--	18 ± 3	< 0.1	13 ± 1
--	White River Formation	--	--	--	16 ± 2	< 0.1	5.8 ± 0.6
--	White River Formation	--	--	--	4.5 ± 0.6	< 0.1	1.1 ± 0.4
--	--	--	--	--	47 ± 7	0.6 ± 0.1	0.8 ± 0.1
--	Wind River Formation	--	--	--	46 ± 7	0.9 ± 0.2	0.4 ± 0.4
--	White River Formation	--	--	--	21 ± 3	0.4 ± 0.1	0.7 ± 0.4
--	--	--	--	--	9.0 ± 1.4	0.3 ± 0.1	25.0 ± 2.0
--	--	--	--	--	8.8 ± 1.0	0.3 ± 0.1	26.0 ± 3.0
--	Tensleep Sandstone	--	--	--	9.7 ± 1.5	0.4 ± 0.1	20.0 ± 2.0
--	--	--	--	--	11 ± 2	0.2 ± 0.1	26.0 ± 3.0
--	--	--	--	--	12 ± 2	0.2 ± 0.1	22.0 ± 2.0
--	--	--	--	--	9.4 ± 1.4	0.3 ± 0.1	28.0 ± 3.0
--	--	--	--	--	8.3 ± 1.2	0.2 ± 0.1	17.0 ± 2.0
--	--	--	--	--	9.7 ± 1.4	--	< 0.4
--	Wind River Formation	--	9.5	--	--	1.9 ± 0.4	2.5 ± 0.4
--	Wind River Formation	--	10	--	--	2100 ± 400	4400 ± 400
--	Wind River Formation	--	18.5	--	--	840 ± 120	2400 ± 200
--	Wind River Formation	--	12	--	--	850 ± 170	3800 ± 400
--	Cloverly Formation	537	14.5	--	--	0.9 ± 0.2	0.5 ± 0.4
--	Tensleep Sandstone	1668	38.5	--	--	69 ± 14	< 0.4
--	--	--	13	--	45 ± 7	4.6 ± 0.9	< 0.4
--	--	--	--	--	3.8 ± 0.6	< 0.1	0.4 ± 0.4

Table 1-- *Sample-site data and radiochemical*

County	Nearest community	Location of point of collection	Owner or operator	Date sampled
WYOMING (cont.)				
Fremont	- -	T. 32 N., R. 90 W., sec. 11, NE1/4 NE1/4NE1/4, Cameron Spring	- -	7/19/63
Carbon	Alcova	SE. of Alcova, flowing spring	- -	10/10/63
Carbon	Shirley Basin	T. 28 N., R. 78 W., sec. 8, NW1/4, trailer camp	Utah Mining and Construction Company	9/6/63
Sweetwater	Rock Springs	T. 16 N., R. 107 W., sec. 22, SE1/4 SE1/4SE1/4	National Park Service, Dutch John, Utah	9/20/63
Fremont	Atlas Mines	Atlas Mines	- -	10/3/63
Fremont	Atlas Mines	Atlas Mines, mine seep	- -	10/3/63
Fremont	Atlas Mines	Lisbon shaft, mine seep	Atlas Minerals	10/3/63
Fremont	Riverton	Atlas Mine, West mine face	Atlas Minerals	10/3/63
Fremont	- -	Atlas Mine, mine face	Atlas Minerals	10/3/63
Sweetwater	- -	T. 19 N., R. 110 W., sec. 21, SE1/4 SE1/4, Westvaco Mine	Intermountain Chemical Company	10/22/63
Fremont	- -	T. 33 N., R. 90 W., sec. 32, NE1/4 NE1/4NE1/4, Federal Camp Well	Federal	1/15/64
Fremont	- -	T. 33 N., R. 90 W., sec. 28, NE1/4 NE1/4, service station faucet	Marvin Hammer	1/14/64
Fremont	- -	T. 33 N., R. 90 W., sec. 22, E1/2, well no. 8	Lucky Mc	1/15/64
Fremont	- -	T. 32 N., R. 91 W., faucet in Western Nuclear Office	Western Nuclear	1/14/64
Fremont	- -	T. 33 N., R. 90 W., sec. 24, NW1/4	Lucky Mc	1/15/64
Fremont	- -	T. 33 N., R. 90 W., sec. 23, NW1/4 SW1/4	Lucky Mc	1/15/64
Fremont	- -	T. 33 N., R. 90 W., sec. 28, SE1/4, federal well no. 13	Federal	1/15/64
Fremont	- -	T. 32 N., R. 91 W., end of discharge pipe	Western Nuclear	1/14/64
Converse	- -	T. 37 N., R. 73 W., sec. 5, NW1/4, Roy's draw	Dick Hornbuckle	e. 03/64
Converse	- -	T. 38 N., R. 73 W., sec. 32, NW1/4, bull pasture	Dick Hornbuckle	e. 03/64
Converse	- -	T. 38 N., R. 73 W., sec. 32, NW1/4, bull pasture	Dick Hornbuckle	e. 03/64
Converse	- -	T. 38 N., R. 73 W., sec. 27, SW1/4, Harris pasture	Dick Hornbuckle	e. 03/64
Converse	- -	T. 37 N., R. 73 W., Turner pasture	Dick Hornbuckle	e. 03/64
Converse	- -	T. 37 N., R. 73 W., Schmuck pasture	Dick Hornbuckle	e. 03/64
Converse	- -	T. 37 N., R. 73 W., water tap at uranium pit laboratory, Hornbuckle Ranch	Dick Hornbuckle	e. 03/64

data for selected ground-water samples--Continued

Time (24 hour)	Water-yielding unit	Depth of well (ft)	Temp (°C)	Gross alpha; U-natural (µg/L)	Gross beta; Sr-90/Y-90 (pCi/L)	Radium-226 planchet (pCi/L)	U-natural; direct fluor. (µg/L)
--	Wind River Formation	--	9	--	10 ± 2	0.4 ± 0.1	14.0 ± 1.0
--	White River Formation	--	--	--	9.4 ± 1.4	0.1 ± 0.1	4.6 ± 0.5
--	Wind River and White River Formations	--	--	--	23 ± 3	6.9 ± 1.4	28 ± 3
--	Wasatch Formation	990	--	--	20 ± 3	0.1 ± 0.1	< 0.4
--	Wind River Formation	410	11	--	57 ± 9	20 ± 4	28 ± 3
--	Wind River Formation	45	9.5	--	4500 ± 700	2400 ± 500	36 ± 4
--	Wind River Formation	400	9.5	--	4200 ± 600	2200 ± 400	1100 ± 100
--	Wind River Formation	--	--	--	180 ± 30	77 ± 15	13 ± 1
--	Wind River Formation	--	10	--	240 ± 40	120 ± 20	63 ± 6
--	Tipton Shale Member of Green River Formation	--	26.5	--	< 9.8	0.2 ± 0.1	< 0.4
--	Wind River Formation	338	--	--	28 ± 4	5.1 ± 1.0	< 0.4
--	Wind River Formation	84	9	--	64 ± 10	23 ± 5	13 ± 1
--	Cloverly Formation	1498	23	--	< 3.9	0.7 ± 0.1	< 0.4
--	--	--	9	--	150 ± 20	70 ± 14	11 ± 1
--	Tensleep Sandstone	1389	12.2	--	250 ± 40	120 ± 20	< 0.4
--	Cloverly Formation	1048	6	--	5.0 ± 0.8	1.8 ± 0.4	0.8 ± 0.4
--	Wind River Formation	295	10	--	44 ± 7	11 ± 2	7 ± 1
--	Wind River Formation	365	2	--	310 ± 50	93 ± 19	390 ± 40
--	--	--	--	--	12 ± 2	--	< 0.4
--	--	--	--	--	12 ± 2	--	< 0.4
--	--	--	--	--	11 ± 2	--	< 0.4
--	--	--	--	--	21 ± 3	--	< 0.4
--	--	--	--	--	33 ± 5	--	10 ± 1
--	--	--	--	--	24 ± 4	--	25 ± 2
--	--	--	--	--	10 ± 2	--	< 0.4

Table 2.-- ***Sample-site data and radiochemical***

(cu ft/s, cubic feet per second: U, uranium;
Y-90 , yttrium-90; pCi/L, picocuries per liter;

County	Location of point of collection	River or stream
ALABAMA		
Jefferson	Putnam station, Birmingham	Inland Lake at Putnam station
Jefferson	Birmingham	Cahaba River
Mobile	Mobile	Tap water from filter plant laboratory
ALASKA		
--	Kukpuk drainage, Point Hope	Pond no. 6
- -	Gage at Project Chariot camp site, Point Hope	Ogotoruk Creek
- -	Lagoon at mouth of creek, Project Chariot camp site, Point Hope	Ogotoruk Creek
- -	Kukpuk drainage, Point Hope	Pond no. 1
- -	10 mi NE. of Kivalina	Wulik River
- -	NW. of Kotzebue, 0.5 mi from Chukchi Sea	Kisimulowk Creek
- -	Mouth of Ahgahyoukuka Creek, Point Hope	Ahgahyoukuka Creek
- -	Lagoon at mouth of creek, Project Chariot, Point Hope	Ogotoruk Creek
- -	0.25 mi upstream from Kukpuk, N. of Project Chariot site, Point Hope	Ipewik River
- -	Project Chariot, Point Hope	Ogotoruk Creek
- -	NE. of Project Chariot site, Point Hope	Kukpuk River
- -	125 mi NW. of Kotzebue	Chukchi Sea
- -	2 mi S. of Point Hope	Chukchi Sea
- -	16 mi ENE. of Point Hope	Kukpuk River
- -	59 mi ENE. of Point Hope	E. branch of Ipewik River
- -	14 mi NW. of Kivalina, 750 ft downstream from springs, 600 ft upstream from mouth of lagoon	Covreruk Springs
- -	75 mi N. of Kotzebue, at source of Noatak River	Kelly River
- -	Project Chariot camp site, Point Hope	Ogotoruk Creek
- -	Project Chariot camp site, Point Hope	Ogotoruk Creek
- -	Project Chariot camp site, Point Hope	Ogotoruk Creek
--	Project Chariot camp site, Point Hope	Ogotoruk Creek
- -	Kotzebue	Stubbys Creek
- -	16 mi ENE. of Point Hope, lat 68°20' N., long 166°12'W.	Kukpuk River
- -	Project Chariot, midway along S. shore, Point Hope	Lagoon no. 4
- -	7 mi N. of Kivalina, lat 67°48' N., long 164°35'W.	Kivalina River
- -	Rampart	Yukon River
- -	1.2 mi upstream, Point Hope	Ogotoruk Creek
- -	Near Weisner's Trading Center, Rampart	Yukon River
- -	Rampart, lat 65.5° N., long 150° W.	Yukon River
- -	Rampart	Yukon River
- -	Kukpuk drainage, E. shore of pond, Point Hope	West pond
- -	3 mi NE. of Project Chariot site, 500 ft upstream, Point Hope	Nusoaruk Creek
- -	Point Hope	Kukpuk River
ARIZONA		
- -	Sump	Spring
Gila	Travertine Springs	Travertine Springs
Gila	Orange Springs	Orange Springs
Apache	5 mi NE. of Lukachukai, Navajo Indian Reservation	Wide Lake
Pinal	Kelvin	Gila River
Yuma	Yuma	Colorado River
Pinal	Kelvin	Gila River
Pinal	Kelvin	Gila River
Pinal	Kelvin	Gila River

data for selected surface-water samples

µg/L, micrograms per liter; Sr-90, strontium-90; fluor., fluorometric; mi, miles; e., estimated; <, less than)

Date sampled	Time (24 hour)	Discharge (cu ft/s)	Gross alpha; U-natural (µg/L)	Gross beta; Sr-90/Y-90 (pCi/L)	Radium-226 planchet (pCi/L	U-natural; direct fluor. (µg/L)
8/29/61	--	--	--	1.8 ± 0.3	< 0.1	< 0.1
8/29/61	--	--	--	2.6 ± 0.4	< 0.1	0.2 ± 0.1
4/27/62	--	--	--	11 ± 2	< 0.1	0.1 ± 0.1
8/4/59	--	--	< 0.2	29 ± 4	< 0.5	< 0.1
8/6/59	--	--	< 0.3	4.8 ± 1	< 0.5	< 0.1
8/20/59	--	--	0.5 ± 0.4	6.2 ± 1	< 0.5	0.1 ± 0.1
8/4/59	--	--	< 0.5	18 ± 3	0.4 ± 0.1	< 0.1
8/7/59	1000	--	< 1.1	2.7 ± 0.4	0.1 ± 0.1	0.4 ± 0.1
8/15/59	--	--	0.4 ± 0.3	6 ± 1	< 0.5	< 0.1
8/25/59	--	--	< 0.3	4.7 ± 1.3	< 0.1	0.4 ± 0.1
8/29/59	--	--	< 0.4	5.3 ± 0.8	< 0.2	0.1 ± 0.1
9/1/59	--	--	< 0.3	7.5 ± 1.1	0.1 ± 0.1	0.2 ± 0.1
8/28/59	--	--	< 0.3	5.4 ± 0.8	< 0.1	< 0.1
9/1/59	--	--	< 1	6.6 ± 1	0.9 ± 0.1	0.3 ± 0.1
8/24/59	--	--	< 161	210 ± 170	0.2 ± 0.1	4.2 ± 0.4
9/2/59	1100	--	< 130	390 ± 170	0.4 ± 0.1	3.2 ± 0.3
8/29/59	1600	--	< 0.9	9.9 ± 1	< 0.5	0.3 ± 0.1
9/7/59	1100	--	< 1.3	4.8 ± 1.3	< 0.1	0.4 ± 0.1
9/9/59	--	--	8 ± 8	< 10	0.2 ± 0.1	0.5 ± 0.1
9/9/59	1000	--	< 1	1.5 ± 1	0.1 ± 0.1	0.4 ± 0.1
8/04-11/59	--	--	< 0.2	5.6 ± 2.6	< 0.5	< 0.1
7/13-20/59	--	--	< 0.2	5.1 ± 2.6	< 0.5	< 0.1
8/15-27/59	--	--	< 0.3	4 ± 2.6	< 0.5	0.1 ± 0.1
7/22/59-8/2/59	--	--	< 0.2	6 ± 2.6	< 0.5	< 0.1
8/3/60	--	--	< 0.4	7.4 ± 1.1	< 0.2	0.2 ± 0.1
5/30/60	--	8000	< 0.2	7.7 ± 1.1	< 0.1	< 0.1
9/5/60	--	--	< 4	39 ± 6	0.1 ± 0.1	0.1 ± 0.1
e. 11/60	--	--	1.9 ± 1.2	1.9 ± 1.2	< 0.1	0.2 ± 0.1
4/19/61	--	--	< 5.6	3.6 ± 0.5	0.1 ± 0.1	1.4 ± 0.1
5/7/61	--	10	0.5 ± 0.3	7.2 ± 1	< 0.1	< 0.1
5/27-6/18/61	--	--	--	2.8 ± 0.4	< 0.1	0.4 ± 0.1
9/17/61	1450	--	--	2.9 ± 0.4	0.1 ± 0.1	0.5 ± 0.1
6/6/61	1545	476000	< 4.6	3.2 ± 0.5	0.3 ± 0.1	0.4 ± 0.1
7/12/61	--	--	< 1.1	6.8 ± 1	< 0.1	< 0.1
7/11/61	--	0	< 5.8	2.5 ± 0.4	0.1 ± 0.1	0.2 ± 0.1
8/17/61	1000	200	< 5.5	1.5 ± 0.2	< 0.1	0.2 ± 0.1
7/28/55	--	--	--	20	< 0.1	2
e. 02/56	--	--	--	< 1700	162	13
e. 02/56	--	--	--	< 1700	220	14
8/24/58	--	--	< 0.6	85	0.2	0.2 ± 0.1
10/26/60	--	--	< 1.5	49 ± 7	0.2 ± 0.1	0.1 ± 0.1
2/15/61	--	575	< 50	14 ± 2	0.3 ± 0.1	0.6 ± 0.1
11/1-17/60	--	14-17	--	--	< 0.1	--
10/21-31/60	--	15-20	--	--	--	2 ± 0.2
10/20/60	1700	18	< 57	31 ± 4	--	--

Table 2.-- *Sample-site data and radiochemical*

County	Location of point of collection	River or stream
ARIZONA (cont.)		
Yuma	Flow from both Colorado River and well on Mohawk drain, Yuma	- -
Yuma	Yuma, P/C Sta. 5210	Colorado River
Yuma	Yuma	Colorado River
Maricopa	Phoenix	Verde River
Winkleman	Winkleman	Gila River
Chinle	T. 9 N., R. 10 W., sec. 32, Chinle Valley	Temporary pond
CALIFORNIA		
Placer	0.5 mi S. of Homewood	Lake Tahoe
San Mateo	Pipeline no. 2	San Andreas Reservoir
Alameda	Orinda Plant, Oakland	Mokalumne River
- -	Ney Springs	Ney Springs
Santa Barbara	2 mi SW. of Santa Barbara	Veronica Springs
--	5 mi ENE. of Huntington Lake	Huntington Lake
Fresno	3 mi N. of Shaver Lake	Shaver Lake
Siskiyou	Aqua de Ney	Spring
Inyo	T. 28 N., R. 1 E., sec. 36, SW 1/4 NE 1/4	Nevares Spring
San Joaquin	Vernalis	San Joaquin River
San Joaquin	Vernalis	San Joaquin River
Siskiyou	Klamath	Klamath River
Colusa	T. 13 N., R. 1 E., sec. 22, at Boyers pump, Colusa	Sacramento River
Colusa	T. 13 N., R. 1 E., sec. 22, 15 mi NW. of Knights Landing	Sacramento River
San Joaquin	Left bank of river, Vernalis	San Joaquin River
Los Angeles	La Verne	Colorado River water
San Mateo	San Francisco	Crystal Springs Reservoir
San Diego	Alvarado Treatment Plant, San Diego	Colorado River water
Mono	Mono Lake	Mono Lake
Inyo	10 mi S. of Death Valley Junction	Amargosa River
San Bernadino	Bristol Lake	Bristol Lake
COLORADO		
Jefferson	1 mi W. of Golden	Clear Creek
Clear Creek	Idaho Springs	Clear Creek
Clear Creek	Lawson	Clear Creek
Clear Creek	N. fork of Clear Creek	Clear Creek
Jefferson	1 mi W. of Morrison	Bear Creek
Jefferson	Waterton Bridge	South Platte River
Jefferson	Sheridan Boulevard Bridge	Clear Creek
Jefferson	Youngfield Street Bridge	Clear Creek
Jefferson	2 mi W. of Golden, gaging station	Clear Creek
Jefferson	Golden, gaging station	Clear Creek
Jefferson	1650 Winfield Drive, Golden	Rain sample
Garfield	Between Basalt and Carbondale	Roaring Fork River
Summit	Dillon	Blue River
Eagle	Wolcott	Eagle River
Eagle	Eagle	Eagle River
Eagle	1.6 mi below Lime Creek confluence, Meredith	Fryingpan Creek
Eagle	1.6 mi below Lime Creek confluence, Meredith	Fryingpan Creek
Garfield	Gaging station, Glenwood Springs	Roaring Fork River
Pitkin	2.5 mi below Basalt	Roaring Fork River
Pitkin	Aspen	Roaring Fork River

data for selected surface-water samples --Continued

Date sampled	Time (24 hour)	Discharge (cu ft/s)	Gross alpha; U-natural (µg/L)	Gross beta; Sr-90/Y-90 (pCi/L)	Radium-226 planchet (pCi/L	U-natural; direct fluor. (µg/L)
5/11/61	1030	--	< 60	11 ± 2	0.1 ± 0.1	7.6 ± 0.8
12/20/60	1035	967	10 ± 5	24 ± 4	0.2 ± 0.1	6.7 ± 0.7
7/20/61	--	1030	--	17 ± 3	4.5 ± 0.9	6.6 ± 0.7
7/27/61	--	--	< 15	7 ± 1	< 0.1	1.4 ± 0.1
3/27/62	--	--	--	13 ± 2	< 0.1	1.2 ± 0.1
9/8/65	1200	--	--	--	--	19 ± 2
e. 10/57	--	--	< 1	59	0.1	< 0.1
1/31/62	--	--	--	11 ± 2	0.1 ± 0.1	0.3 ± 0.1
1/30/62	--	--	--	4.1 ± 0.6	< 0.1	< 0.1
e. 05/58	--	--	< 182	< 1133	--	6
4/8/68	--	--	460	< 756	1.2	660
9/23/58	--	--	--	17	--	--
e. 11/58	--	--	--	15	--	--
e. 09/59	--	--	< 172	< 260	0.3 ± 0.1	0.2 ± 0.1
3/14/60	--	--	< 4.1	24 ± 4	2.4 ± 0.5	1.9 ± 0.2
10/14/60	--	--	4.9 ± 3.6	13 ± 2	1.2 ± 0.2	5.1 ± 0.5
3/9/61	--	--	21 ± 16	11 ± 2	0.1 ± 0.1	8 ± 0.8
8/3/61	1400	--	< 3.8	1.5 ± 0.2	< 0.1	< 0.1
3/13/61	--	--	< 3.2	1.9 ± 0.3	< 0.1	< 0.1
5/4/61	1430	--	< 3.2	1.9 ± 0.3	< 0.1	0.2 ± 0.1
5/4/61	--	--	< 21	14 ± 2	0.3 ± 0.1	7.1 ± 0.7
1/24/62	1700	--	--	18 ± 3	0.3 ± 0.1	8.6 ± 0.9
1/31/62	--	--	--	6.8 ± 1	< 0.1	0.2 ± 0.1
1/24/62	1200	--	--	16 ± 2	0.2 ± 0.1	6.9 ± 0.7
2/3/59	--	--	< 450	2000 ± 260	0.5 ± 0.1	350 ± 35
e. 04/59	--	--	15 ± 15	27 ± 6.9	0.1 ± 0.1	11 ± 1.1
e. 07/59	--	--	3700 ± 3700	10000 ± 1500	650 ± 130	1.5 ± 0.2
e. 05/54	--	--	--	< 20	< 0.1	2.1
5/20/54	--	--	--	< 10	0.6	2.1
e. 05/54	--	--	--	< 10	< 0.1	1.8
e. 05/54	--	--	--	< 10	< 0.1	1.5
e. 05/54	--	--	--	< 10	< 0.1	1
e. 05/54	--	--	--	< 10	< 0.1	1.7
e. 05/54	--	--	--	13	0.5	4.8
e. 05/54	--	--	--	10	0.4	0.8
e. 03/55	--	--	--	32	0.5	5.3
3/29/55	--	--	--	23	0.2	2.6
3/31/55	--	--	--	2690	0.6	0.3
e. 10/55	--	--	--	--	0.2	3
e. 10/55	--	--	--	18	0.3	0.7
e. 10/55	--	--	--	< 34	0.1	1.5
e. 10/55	--	--	--	< 34	0.3	2.2
e. 11/55	--	--	--	--	< 0.1	0.6
e. 11/55	--	--	--	< 7	< 0.1	0.5
e. 11/55	--	--	--	< 17	0.1	3.6
e. 11/55	--	--	--	< 14	0.1	3.5
e. 11/55	--	--	--	< 5	< 0.1	1.9

Table 2.-- ***Sample-site data and radiochemical***

County	Location of point of collection	River or stream
COLORADO (cont.)		
Pitkin	Norrie	Fryingpan Creek
Pitkin	Gaging station	N. fork of Fryingpan Creek
Eagle	Gaging station	Lime Creek
Pitkin	2 mi upstream from Basalt	Fryingpan Creek
Pitkin	1.1 mi upstream from Basalt	Roaring Fork River
Pitkin	Aspen	Hunter Creek
Pitkin	Aspen	Castle Creek
Pitkin	3 mi upstream from confluence	Maroon Creek
Pitkin	Woody Creek	Roaring Fork
Pitkin	At confluence with Roaring Fork	Snowmass Creek
Garfield	Cattle Creek	Roaring Fork River
Pitkin	Gaging station, Norrie	Fryingpan Creek
Pitkin	Gaging station, Norrie	N. fork of Fryingpan Creek
Pitkin	Thomasville	Lime Creek
Pitkin	Upstream from Basalt	Fryingpan Creek
Pitkin	Upstream from Basalt	Roaring Fork River
Pitkin	Aspen Power Station	Castle Creek
Pitkin	1 mi above confluence	Maroon Creek
Pitkin	Railroad trestle, Woody Creek	Roaring Fork River
Pitkin	0.25 mi upstream from Snowmass	Snowmass Creek
Pitkin	Colorado Highway 82, Cattle Creek	Roaring Fork River
Pitkin	Near gaging station, Aspen	Roaring Fork River
Pitkin	Between Thomasville and Meredith	Fryingpan Creek
Pitkin	1.3 mi below Thomasville	Fryingpan Creek
Pitkin	1.3 mi below Thomasville	Fryingpan Creek
Eagle	2 mi below Basalt	Roaring Fork River
Garfield	Glenwood Springs	Roaring Fork River
Denver	1200 S. Tennyson, Denver	Rain sample
Pitkin	Gaging station, Norrie	Fryingpan Creek
Pitkin	Gaging station, Norrie	N. Fork of Fryingpan Creek
Pitkin	Gaging station, Thomasville	Lime Creek
Pitkin	Upstream from Basalt	Fryingpan Creek
Pitkin	Upstream from Basalt	Roaring Fork River
Pitkin	At Aspen Power Station	Castle Creek
Pitkin	Aspen	Maroon Creek
Pitkin	Railroad trestle, Woody Creek	Roaring Fork River
Pitkin	Snowmass	Snowmass Creek
Garfield	Bridge 8 mi SE. of Glenwood Springs on Colorado Highway 82 Cattle Creek	Roaring Fork River
Pitkin	1.3 mi below Thomasville	Fryingpan Creek
Pitkin	2 mi below Basalt	Roaring Fork River
Garfield	Gaging station in Riverside Park, Glenwood Springs	Roaring Fork River
Jefferson	Waterton Bridge	South Platte River
Jefferson	Trout farm, Morrison	Bear Creek
Boulder	Bridge, Boulder	Boulder Creek
Jefferson	3.8 mi W. on Colorado Highway 72 from junction of Colorado Highways 72 and 93	Coal Creek
Boulder	Bridge on Colorado Highway 7	Left Hand Creek
Boulder	Town bridge, Eldorado Springs	South Boulder Creek
Jefferson	Gaging station, Golden	Clear Creek
Boulder	Bridge, Lyons	St. Vrain Creek

data for selected surface-water samples --Continued

Date sampled	Time (24 hour)	Discharge (cu ft/s)	Gross alpha; U-natural (µg/L)	Gross beta; Sr-90/Y-90 (pCi/L)	Radium-226 planchet (pCi/L	U-natural; direct fluor. (µg/L)
e. 11/55	--	--	--	< 5	< 0.1	0.2
e. 11/55	--	--	--	< 5	0.1	0.1
e. 11/55	--	--	--	< 14	< 0.1	0.8
e. 11/55	--	--	--	< 14	0.1	0.7
e. 11/55	--	--	--	< 14	0.1	3.6
e. 11/55	--	--	--	< 7	0.1	0.5
e. 11/55	--	--	--	< 17	0.1	2.4
e. 11/55	--	--	--	< 17	0.1	0.8
e. 11/55	--	--	--	< 17	0.1	1.1
e. 11/55	--	--	--	< 23	< 0.1	1.3
e. 11/55	--	--	--	< 34	< 0.1	3.1
e. 07/56	--	--	--	--	--	0.2
e. 07/56	--	--	--	--	--	0.4
e. 06/56	--	--	--	11	< 0.1	0.2
e. 07/56	--	--	--	--	0.1	0.3
e. 07/56	--	--	--	--	--	0.7
e. 06/56	--	--	--	9	--	0.6
e. 06/56	--	--	--	7	--	0.3
e. 06/56	--	--	--	7	--	0.5
e. 06/56	--	--	--	7	--	0.3
e. 06/56	--	--	--	< 7	0.1	3.1
e. 06/56	--	--	--	< 7	< 0.1	0.7
e. 06/56	--	--	--	< 7	< 0.1	0.2
e. 07/56	--	--	--	--	--	0.2
e. 07/56	--	--	--	--	0.1	0.3
e. 06/56	--	--	--	8	< 0.1	0.6
e. 06/56	--	--	--	10	< 0.1	0.6
7/18/56	--	--	--	5800	--	--
e. 08/56	--	--	--	--	--	0.1
e. 08/56	--	--	--	--	--	0.2
e. 08/56	--	--	--	--	--	0.4
e. 08/56	--	--	--	--	--	0.5
e. 08/56	--	--	--	--	--	2.9
e. 08/56	--	--	--	--	--	1.2
e. 08/56	--	--	--	--	--	0.5
e. 08/56	--	--	--	--	--	1.3
e. 08/56	--	--	--	--	--	1.3
e. 08/56	--	--	--	--	--	3.7
e. 08/56	--	--	--	--	--	0.3
e. 08/56	--	--	--	--	--	2.3
e. 08/56	--	--	--	--	--	2.4
e. 05/57	--	--	1.1	8	< 0.1	0.4
e. 05/57	--	--	1.4	10	< 0.1	0.2 ± 0.1
e. 05/57	--	--	1.6	10	0.1	0.4 ± 0.1
e. 05/57	--	--	3.4	12	0.3	0.6 ± 0.1
e. 05/57	--	--	0.8	24	0.2	0.7 ± 0.1
e. 05/57	--	--	0.7	9	0.2	0.5 ± 0.1
e. 05/57	--	--	0.4	8	0.4	0.4 ± 0.1
e. 05/57	--	--	2.4	22	0.2	0.6 ± 0.1

Table 2.-- ***Sample-site data and radiochemical***

County	Location of point of collection	River or stream
COLORADO (cont.)		
Jefferson	Gage	Clear Creek
Boulder	Gaging station, Eldorado Springs	South Boulder Creek
Boulder	SW. of Rocky Flats	Coal Creek
Jefferson	Gaging station, Morrison	Bear Creek
Boulder	Oroville gaging station	Boulder Creek
Boulder	Gaging station	Left Hand Creek
Jefferson	Gaging station, Golden	Clear Creek
Boulder	Gaging station, Lyons	St. Vrain Creek
Eagle	Gypsum	Eagle River
Summit	Dillon	Blue River
Summit	E. of Dillon	Snake River
Eagle	5 mi N. of Dotsero	Colorado River
Chaffee	Granite	Arkansas River
Arapahoe	T. 5 S., R. 65 W., sec. 29, 12 mi NE. of Parker	- -
Jefferson	Bear Creek	Bear Creek
Boulder	Boulder	Boulder Creek
Boulder	Boulder	Left Hand Creek
Jefferson	Waterton	South Platte River
Jefferson	Clear Creek	Clear Creek
Boulder	Lyons	South St. Vrain
Boulder	Eldorado Springs	South Boulder Creek
Jefferson	Coal Creek Canyon	Coal Creek
Jefferson	Bridge at Trout Ranch, Morrison	Bear Creek
Jefferson	Gage at Waterton Bridge	South Platte River
Boulder	Gage at Boulder Creek, Eldorado Springs	South Boulder Creek
Boulder	Gage at Left Hand Creek, Boulder	Left Hand Creek
Boulder	3.1 mi above Coal Creek Canyon entrance	Coal Creek
Boulder	Gaging station, Boulder	Boulder Creek
Boulder	Gaging station, Lyons	St. Vrain Creek
Boulder	Gage above Boulder Canyon entrance	Left Hand Creek
Boulder	Oroville gaging station	Boulder Creek
Jefferson	Gaging station above Golden	Clear Creek
Boulder	Gaging station, Lyons	St. Vrain Creek
Jefferson	3.8 mi W. on Colorado Highway 72 from junction of Colorado Highways 93 and 72	Coal Creek
Jefferson	Gaging station, Morrison	Bear Creek
Boulder	Gaging station, Eldorado Springs	South Boulder Creek
Jefferson	Gaging station, Waterton	South Platte River
Boulder	Springdale	Curie Springs
Jefferson	0.5 mi S. of Morrison, 500 ft W. of West Soda Lake	Spring
--	300 ft above South Platte, across from lodge site	Strontia Springs
Boulder	7 mi W. of Nederland	Caribou Peat Bog
Boulder	Stream next to Springdale springs	Curie Springs
Boulder	Curie Springs	Curie Springs
Boulder	Gaging station, Boulder Creek, Boulder	Boulder Creek
Boulder	Gaging station, Boulder	Left Hand Creek
Jefferson	3.1 mi above Coal Creek Canyon entrance	Coal Creek
Boulder	Gaging station above Eldorado Springs	South Boulder Creek
Boulder	Gaging station on South St. Vrain Creek, Lyons	South St. Vrain Creek
Jefferson	Gaging station at Bear Creek, Morrison	Bear Creek

data for selected surface-water samples

Date sampled	Time (24 hour)	Discharge (cu ft/s)	Gross alpha; U-natural (µg/L)	Gross beta; Sr-90/Y-90 (pCi/L)	Radium-226 planchet (pCi/L	U-natural; direct fluor. (µg/L)
6/12/57	- -	- -	- -	< 7	0.1	0.2 ± 0.1
e. 10/57	- -	- -	- -	26	- -	0.7 ± 0.1
e. 10/57	- -	- -	0.3	41	- -	0.4 ± 0.1
e. 10/57	- -	- -	< 5	71	- -	0.6 ± 0.1
e. 10/57	- -	- -	- -	19	- -	0.3 ± 0.1
e. 10/57	- -	- -	- -	36	- -	2.5 ± 0.3
e. 10/57	- -	- -	- -	111	- -	0.2 ± 0.1
e. 10/57	- -	- -	- -	6	- -	1.8 ± 0.2
e. 10/57	- -	- -	- -	59	- -	- -
e. 10/57	- -	- -	- -	< 19	- -	- -
e. 10/57	- -	- -	- -	25	- -	- -
e. 10/57	- -	- -	- -	< 19	- -	- -
e. 10/57	- -	- -	- -	< 18	- -	- -
e. 03/58	- -	- -	- -	< 25	0.4	1 ± 0.1
e. 02/58	- -	- -	< 1	< 8	< 0.1	1.2
e. 02/58	- -	- -	< 1	< 8	< 0.1	0.3
e. 02/58	- -	- -	21	< 8	0.9	8.7
e. 02/58	- -	- -	3.3	< 8	< 0.1	2.4
e. 02/58	- -	- -	2.9	< 8	0.1	2
e. 02/58	- -	- -	< 1	< 8	< 0.1	0.7
e. 02/58	- -	- -	0.4	< 8	< 0.1	1.1
e. 02/58	- -	- -	< 1	< 8	< 0.1	0.2
e. 06/57	- -	- -	0.3	12	< 0.1	0.1 ± 0.1
e. 06/57	- -	- -	0.5	25	< 0.1	0.3 ± 0.1
e. 06/57	- -	- -	0.9	12	< 0.1	0.3 ± 0.1
e. 06/57	- -	- -	1.5	94	< 0.1	0.7 ± 0.1
e. 06/57	- -	- -	1.4	85	< 0.1	0.6 ± 0.1
e. 06/57	- -	- -	0.4	11	< 0.1	0.2 ± 0.1
e. 06/57	- -	- -	1.6	15	< 0.1	0.3 ± 0.1
e. 06/57	- -	- -	0.4	163	< 0.1	0.3 ± 0.1
e. 06/57	- -	- -	< 0.2	21	< 0.1	< 0.1
e. 06/57	- -	- -	8.2	< 8	< 0.1	0.2 ± 0.1
e. 07/57	- -	- -	0.1	11	0.1	0.2 ± 0.1
e. 07/57	- -	- -	0.3	9	< 0.1	0.5 ± 0.1
e. 07/57	- -	- -	0.6	25.1	< 0.1	0.1 ± 0.1
e. 07/57	- -	- -	0.8	21	0.2	0.3 ± 0.1
e. 07/57	- -	- -	1.9	15	< 0.1	0.6 ± 0.1
e. 07/57	- -	- -	15	2090	18.9	4
e. 07/57	- -	- -	14.4	< 23	0.8	8.3
e. 07/57	- -	- -	- -	< 380	7.3	< 0.1
e. 07/57	- -	- -	- -	- -	- -	0.1
e. 07/57	- -	- -	0.2	36.7	< 0.1	0.2
e. 07/57	- -	- -	3.5	< 158	9.2	0.6
e. 07/57	- -	- -	0.1	54	< 0.1	0.1 ± 0.1
e. 07/57	- -	- -	0.3	56	0.1	0.3 ± 0.1
e. 07/57	- -	- -	0.7	64	< 0.1	0.5 ± 0.1
e. 07/57	- -	- -	0.9	21	< 0.1	0.3 ± 0.1
e. 07/57	- -	- -	0.4	47	0.1	0.1 ± 0.1
e. 07/57	- -	- -	4.3	69	< 0.1	0.1 ± 0.1

Table 2.-- *Sample-site data and radiochemical*

County	Location of point of collection	River or stream
COLORADO (cont.)		
Jefferson	Gaging station at Clear Creek	Clear Creek
Jefferson	Gage at Kassler Filter Plant	South Platte River
Jefferson	Rain at Denver Federal Center, Lakewood	Rain sample
Jefferson	Waterton gage	South Platte River
Jefferson	Morrison	Bear Creek
Jefferson	Golden	Clear Creek
Jefferson	SW. of Rocky Flats	Coal Creek
Boulder	- -	South Boulder Creek
Boulder	Oroville gaging station	Boulder Creek
Boulder	Gaging station	Left Hand Creek
Boulder	Lyons	St. Vrain Creek
Jefferson	Gaging station, Waterton	South Platte River
Boulder	5 mi from Left Hand Canyon entrance, Boulder	Curie Springs
Boulder	Near Colorado Highway 7, near Left Hand Creek	Pond
Jefferson	1800 S. Garrison, Lakewood	Small lake
Douglas	Riverside Acres, near Plum Creek	Pond
Jefferson	W. Quincy and Kipling, Littleton	Harrison Lake
Jefferson	Kassler filter plant	South Platte River
Jefferson	Morrison	Bear Creek
Boulder	Jamestown	Left Hand Creek
Boulder	Lyons	St. Vrain River
Jefferson	- -	Coal Creek
Jefferson	Golden	Clear Creek
Boulder	Boulder	Boulder Creek
Douglas	Riverside Acres	Plum Creek
Boulder	Eldorado Springs	South Boulder Creek
Garfield	Cattle Creek	Roaring Fork River
Pitkin	- -	Crystal River
Pitkin	- -	Fryingpan Creek
Pitkin	- -	Snowmass Creek
Pitkin	Woody Creek	Roaring Fork River
Pitkin	- -	Maroon Creek
Pitkin	- -	Castle Creek
Archuleta	Above Sand Creek, Pagosa Springs	E. fork of San Juan River
Archuleta	1 mi above Pagosa Springs	San Juan River
Archuleta	Gage at Rio Blanco, Pagosa Springs	Rio Blanco
Archuleta	200 ft above mouth of Rio Blanco, Trujillo	Rio Blanco
Archuleta	At highway bridge above gage station, Edith	Navajo River
Archuleta	Arboles	San Juan River
Archuleta	At old highway bridge foundations, Piedra	Piedra River
Archuleta	At bridge on U.S. Highway 160 E. of Chimney Rock	Devil Creek
La Plata	1 mi above confluence with Vallecito Reservoir	Los Pinos River
La Plata	Above reservoir at bridge	Vallecito Creek
La Plata	Stilling pool of Vallecito Reservoir	Los Pinos River
La Plata	Gage at Spring Creek, La Boca	Spring Creek
San Juan	Howardsville gage	Animas River
San Juan	50 ft below old bridge Colorado Highway 550, S. Silverton	Mineral Creek
La Plata	Highway bridge, Bakers Bridge	Animas River
La Plata	Gage, W. of Hermosa	Hermosa Creek
La Plata	Gaging station, Durango	Animas River

data for selected surface-water samples

Date sampled	Time (24 hour)	Discharge (cu ft/s)	Gross alpha; U-natural (µg/L)	Gross beta; Sr-90/Y-90 (pCi/L)	Radium-226 planchet (pCi/L	U-natural; direct fluor. (µg/L)
e. 07/57	--	--	--	26.3	< 0.1	0.2 ± 0.1
e. 07/57	--	--	2.2	36	< 0.1	0.8 ± 0.1
7/26/57	1525	--	--	306	--	--
e. 08/57	--	--	2.6	48	< 0.1	--
e. 08/57	--	--	0.4	46	< 0.1	0.5 ± 0.1
e. 08/57	--	--	1.1	13	0.1	1.1 ± 0.1
e. 08/57	--	--	0.7	17	< 0.1	0.7 ± 0.1
e. 08/57	--	--	0.9	14	< 0.1	0.7 ± 0.1
e. 08/57	--	--	0.5	< 7	< 0.1	--
e. 08/57	--	--	--	23	0.2	2.3 ± 0.2
e. 08/57	--	--	--	51	10	--
e. 08/57	--	--	< 13	220	0.1	--
e. 02/58	--	--	240	230	29	7
4/9/58	1430	--	--	20	--	--
4/9/58	930	--	--	25	--	--
4/9/58	1015	--	--	45	--	--
4/9/58	1040	--	--	< 17	--	--
4/9/58	930	--	--	9	< 0.1	2.6 ± 0.3
4/9/58	1050	--	--	17	< 0.1	1.6 ± 0.2
4/9/58	1315	--	--	16	0.5	26 ± 3
4/9/58	1445	--	--	8.2	< 0.1	1.2 ± 0.1
4/9/58	1200	--	--	< 8	--	0.5 ± 0.1
4/9/58	1130	--	--	13	< 0.1	1.7 ± 0.2
4/9/58	1300	--	--	14	< 0.1	< 0.1
4/9/58	1015	--	--	< 8	0.1	2.6 ± 0.3
4/9/58	1220	--	--	< 8	< 0.1	0.5 ± 0.1
e. 07/58	--	--	--	--	--	5.2
e. 07/58	--	--	--	--	--	1.7
e. 07/58	--	--	--	--	--	1.1
e. 07/58	--	--	--	--	--	1.5
e. 07/58	--	--	--	--	--	2.1
e. 07/58	--	--	--	--	--	1.1
e. 07/58	--	--	--	--	--	3
9/19/58	1530	--	< 1	8.4	0.1	0.2 ± 0.1
9/19/58	1320	--	< 0.5	26	0.2	0.1 ± 0.1
9/16/58	910	--	< 1	7	0.2	< 0.1
9/19/58	--	--	2.9 ± 1.8	29	1.2	0.2 ± 0.1
9/19/58	1200	--	< 1.6	15	0.1	0.2 ± 0.1
9/17/58	1810	--	< 1.7	15	0.3	0.3 ± 0.1
9/18/58	--	--	< 1.1	23	0.1	0.7 ± 0.1
9/18/58	--	--	< 4.2	< 20	0.3	0.9 ± 0.1
9/17/58	1540	--	< 0.4	5.6	0.4	0.1 ± 0.1
9/17/58	--	--	< 0.4	7	0.4	0.2 ± 0.1
9/17/58	1620	--	0.8 ± 0.5	12	0.2	0.2 ± 0.1
9/17/58	1805	--	2.4 ± 1.6	15	0.3	0.7 ± 0.1
9/17/58	0	--	1.5 ± 1.2	12	0.1	0.4 ± 0.1
9/17/58	0	--	2.3 ± 1.7	< 10	0.1	< 0.1
9/17/58	1	--	1 ± 0.8	11 ± 2	0.2 ± 0.1	0.1 ± 0.1
9/17/58	1	--	< 4.1	< 18	< 0.1	1.6 ± 0.2
9/18/58	0	--	< 1.7	< 16	0.1	1.2 ± 0.1

Table 2.-- ***Sample-site data and radiochemical***

County	Location of point of collection	River or stream
COLORADO (cont.)		
La Plata	1 mi W. of confluence, Durango	Lightner Creek
La Plata	At gage, Bondad	Florida River
La Plata	Gage between Bondad and Cedar Hill, New Mexico	Animas River
La Plata	Animas River below mill, Durango	Animas River
Jefferson	Gage at Kassler Filter Plant	South Platte River
Jefferson	Morrison gage	Bear Creek
Jefferson	Gaging station, Golden	Clear Creek
Jefferson	3.1 mi above Coal Creek Canyon entrance	Coal Creek
Boulder	Gage, Eldorado Springs	South Boulder Creek
Boulder	Gaging station, Boulder	Boulder Creek
Boulder	Gage, Left Hand Creek	Left Hand Creek
Boulder	Gaging station	South St. Vrain
La Plata	Gaging station, Durango	Animas River
Archuleta	1 mi above Pagosa Springs	San Juan River
La Plata	Below Durango	Animas River
Archuleta	0.25 mi above railroad station, Arboles	San Juan River
San Juan	Highway bridge, Howardsville	Animas River
La Plata	Bondad	Animas River
La Plata	Above Vallecito Reservoir	Los Pinos River
San Juan	Silverton	Cement Creek
San Juan	1 mi N. of Silverton	Mineral Creek
San Juan	Gaging station, Howardsville	Animas River
La Plata	Gaging station, Durango	Animas River
Archuleta	Pagosa Springs	San Juan River
Archuleta	Arboles	San Juan River
La Plata	Downstream from Durango	Animas River
San Juan	Below Mineral Creek confluence, Silverton	Animas River
La Plata	Bakers Bridge	Animas River
La Plata	Downstream from Bondad	Animas River
San Miguel	Placerville	San Miguel River
Montezuma	Dolores	Dolores River
La Plata	Vallecito Reservoir, source is Los Pinos River	Pool of Vallecito Reservoir
Archuleta	Pagosa Springs	East fork of San Juan River
La Plata	Above reservoir, source is Vallecito Creek	Vallecito Reservoir
Archuleta	Pagosa Springs	San Juan River
Archuleta	Arboles	San Juan River
San Juan	Gaging station, Howardsville	Animas River
La Plata	Gaging station, Durango	Animas River
La Plata	Below mill, Durango	Animas River
La Plata	U.S. Highway 550 bridge, Bondad	Animas River
La Plata	Gaging station, Durango	Florida River
La Plata	Above confluence, Bondad	Florida River
La Plata	Above Vallecito Reservoir	Los Pinos River
La Plata	Above Vallecito Reservoir	Vallecito Creek
La Plata	Vallecito Reservoir, source is Los Pinos River	Stilling pool, Vallecito Reservoir
La Plata	T. 35 N., R. 9 W., effluent pond, Durango	Effluent Pond
Prowers	450 ft upstream from U.S. Highways 50 and 287, Lamar bridge	- -
Garfield	0.75 mi W. of Glenwood Springs	Gamba Hot Springs
Montrose	12 mi SW. of Gapord	Poison Spring
Montrose	T. 46 N., R. 16 W., Dry creek at bridge, 50 ft above San Miguel River W. of Naturita	Dry creek

data for selected surface-water samples

Date sampled	Time (24 hour)	Discharge (cu ft/s)	Gross alpha; U-natural (µg/L)	Gross beta; Sr-90/Y-90 (pCi/L)	Radium-226 planchet (pCi/L	U-natural; direct fluor. (µg/L)
9/18/58	0	--	5.1 ± 2.9	33 ± 5	< 0.1	1.3 ± 0.1
9/18/58	0	--	< 1.4	19 ± 3	0.2 ± 0.1	1.5 ± 0.2
9/18/58	--	--	79 ± 61	110	9.9	63 ± 6
9/18/58	--	--	--	--	20 ± 3	--
10/30/58	--	--	--	36	0.1	3.5 ± 0.4
10/30/58	--	--	--	22	< 0.1	0.5 ± 0.1
10/30/58	--	--	--	30	< 0.1	1 ± 0.1
10/30/58	--	--	--	10	< 0.1	0.3 ± 0.1
10/30/58	--	--	--	< 8	< 0.1	0.5 ± 0.1
10/30/58	--	--	--	14	< 0.1	0.2 ± 0.1
10/30/58	--	--	--	18	0.1	4 ± 0.4
10/30/58	--	--	--	15	< 0.1	0.5 ± 0.1
2/27/59	--	--	< 2.4	14 ± 2	0.1 ± 0.1	1.4 ± 0.1
2/25/59	--	--	1.1 ± 0.8	12 ± 2	< 0.1	0.2 ± 0.1
2/27/59	--	--	300 ± 130	350 ± 50	39 ± 8	120 ± 10
2/25/59	--	--	< 2.1	45 ± 7	0.2 ± 0.1	0.3 ± 0.1
2/27/59	--	--	< 1.4	7.8 ± 1.2	0.1 ± 0.1	0.1 ± 0.1
2/26/59	--	--	--	--	54.6 ± 8.2	--
5/14/59	--	--	< 0.2	66 ± 10	0.3 ± 0.1	0.3 ± 0.1
e. 05/59	--	--	1.4 ± 1.3	67 ± 10	0.3 ± 0.1	0.3 ± 0.1
5/13/59	--	--	0.8 ± 0.7	46 ± 7	0.3 ± 0.1	0.4 ± 0.1
5/13/59	--	--	< 0.6	43 ± 7	0.1 ± 0.1	0.3 ± 0.1
5/14/59	--	--	1.9 ± 1.3	44 ± 7	0.4 ± 0.1	0.9 ± 0.1
e. 05/59	--	--	< 0.3	42 ± 6	0.2 ± 0.1	0.1 ± 0.1
5/14/59	--	--	1.8 ± 1.2	35 ± 5	0.4 ± 0.1	0.2 ± 0.1
5/14/59	--	--	180 ± 100	280 ± 40	46 ± 9	49 ± 5
5/13/59	--	--	1.5 ± 1.2	38 ± 6	0.2 ± 0.1	0.6 ± 0.1
5/14/59	--	--	2.1 ± 1.4	57 ± 9	0.1 ± 0.1	0.6 ± 0.1
5/14/59	--	--	210 ± 100	490 ± 70	95 ± 19	110 ± 10
e. 08/59	--	--	--	--	0.2 ± 0.1	--
e. 08/59	--	--	--	--	0.9 ± 0.1	--
5/14/59	--	--	< 0.6	35 ± 5	< 0.1	0.5 ± 0.1
e. 09/59	--	--	0.8 ± 0.7	51 ± 8	0.3 ± 0.1	< 0.1
e. 05/59	--	--	0.7 ± 0.5	97 ± 15	0.2 ± 0.1	0.4 ± 0.1
6/16/59	--	--	0.9 ± 0.7	21 ± 3	< 0.1	0.2 ± 0.1
6/16/59	--	--	0.7 ± 0.6	21 ± 3	0.1 ± 0.1	0.1 ± 0.1
6/18/59	--	--	< 4	16 ± 2	< 0.1	0.2 ± 0.1
6/18/59	--	--	< 0.7	16 ± 2	0.1 ± 0.1	0.3 ± 0.1
6/18/59	--	--	41 ± 18	59 ± 9	4.6 ± 0.9	52 ± 5
6/17/59	--	--	35 ± 17	56 ± 8	4.9 ± 0.9	39 ± 4
6/18/59	--	--	0.6 ± 0.6	18 ± 3	< 0.1	0.9 ± 0.1
6/17/59	--	--	5.9 ± 3.3	24 ± 4	< 0.1	1.7 ± 0.2
6/18/59	--	--	< 0.2	16 ± 2	0.1 ± 0.1	0.2 ± 0.1
6/18/59	--	--	0.3 ± 0.2	27 ± 4	< 0.1	0.3 ± 0.1
6/18/59	--	--	< 0.3	23 ± 3	< 0.1	0.4 ± 0.1
10/20/59	--	3	#### ± 23000	49000 ± 7000	2000 ± 400	48000 ± 5000
1/31/60	--	--	56 ± 25	36 ± 6	0.1 ± 0.1	75 ± 8
2/23/60	--	--	--	--	280	--
5/3/60	--	--	3.3 ± 1.9	5.6 ± 0.8	0.3 ± 0.1	0.2 ± 0.1
10/10/60	1500	--	< 23	50 ± 8	0.1 ± 0.1	12 ± 1

Table 2.-- ***Sample-site data and radiochemical***

County	Location of point of collection	River or stream
COLORADO (cont.)		
Jefferson	Roof of Building 25, Denver Federal Center, Lakewood	Snow sample
Boulder	T. 1 N., R. 71 W., sec. 26, gage near Jamestown	Left Hand Creek
Jefferson	T. 3 S., R. 70 W., sec. 32, NE1/4, gage near Golden	Clear Creek
Jefferson	T. 6 S., R. 69 W., sec. 34, NE1/4, gage at Kassler Filter Plant	South Platte River
Jefferson	4 mi W. from junction of Colorado Highways 72 and 93	Coal Creek
Boulder	T. 1 S., R. 71 W., sec. 26, near Eldorado Springs	South Boulder Creek
Boulder	T. 1 N., R. 71 W., sec. 35, Boulder	Boulder Creek
Jefferson	T. 4 S., R. 70 W., sec. 35, SW1/4, Morrison	Bear Creek
Larimer	T. 5 N., R. 70 W., sec. 10, NW1/4, 6 mi E. of Drake at dam	Big Thompson River
Boulder	T. 3 N., R. 70 W., sec. 17, Lyons gage	South St. Vrain Creek
Larimer	T. 8 N., R. 70 W., sec. 15, 8.5 mi NW. of Ft. Collins, at gage	Cache La Poudre River
Lake	Leadville	Hotel Vendome tap
Huerfano	Walsenburg	Cucharas River
Otero	Rocky Ford	Arkansas River
Pueblo	Pueblo	Arkansas River
El Paso	Manitou Springs	- -
Fremont	Canon City	Arkansas River
Las Animas	Trinidad	Purgatoire River
- -	Finished water, Marston Lake	Marston Lake
Denver	Kassler Filter Plant	South Platte River
Gilpin	T. 3 S., R. 72 W., sec. 7, NW1/4, above confluence with Chase Gulch, Blackhawk	North Clear Creek
Huerfano	T. 28 S., R. 70 W., sec. 28, W. flank of Mt Mestas, 20 ft from top of glacier	Glacial ice
Gilpin	T. 3 S., R. 73 W., sec. 1, NW 1/4, 1.5 mi N. of Central City, above culvert from mouth of canyon	North Clear Creek
Boulder	T. 1 S., R. 73 W., sec. 21, NE 1/4, Eldora, opposite U.S. Geological Survey bench mark	Middle Boulder Creek
Gilpin	T. 3 S., R. 72 W., sec. 7, NW 1/4, Blackhawk, at culvert 75 ft W of North Clear Creek	Chase Gulch
Gilpin	T. 3 S., R. 72 W., sec. 7, SW 1/4, Blackhawk, above confluence with North Clear Creek	Gregory Gulch
Gilpin	T. 3 S., R. 72 W., sec. 28, NE 1/4, 5 mi E. of Blackhawk, above confluence with North Clear Creek	Russell Gulch
Jefferson	T. 3 S., R. 72 W., sec. 36, SW 1/4, 13 mi W. of Golden, above confluence with North Clear Creek	North Clear Creek
Montezuma	T. 35 N., R. 20 W., sec. 3, NW 1/4, 25 mi W. of Cortez, 0.25 mi above confluence with Yellow Jacket Creek	McElmo Creek
Montezuma	T. 32 N., R. 20 W., 45 mi SW. of Cortez, below bridge of U.S. 40	San Juan River
Montezuma	T. 36 N., R. 20 W., sec. 34, SW 1/4, 25 mi W. of Cortez, 500 ft above confluence with McElmo Creek	Yellow Jacket Creek
Garfield	T. 6 S., R. 89 W., sec. 9, Glenwood Springs gage	Colorado River
Eagle	Gypsum	Eagle River
Summit	Above Green Mountain Reservoir	Blue River
Eagle	Redcliff	Eagle River
Grand	Near Grand Lake	Colorado River
Grand	Above Williams Fork Reservoir	Williams Fork
Eagle	Ruedi	Fryingpan River
Pitkin	Placita	Crystal River
Pitkin	T. 9 S., R. 88 W., sec. 9, NE 1/4, gage 7 mi N of Redstone	Crystal River
Grand	Kremmling	Colorado River

data for selected surface-water samples

Date sampled	Time (24 hour)	Discharge (cu ft/s)	Gross alpha; U-natural (µg/L)	Gross beta; Sr-90/Y-90 (pCi/L)	Radium-226 planchet (pCi/L	U-natural; direct fluor. (µg/L)
3/3/61	1300	--	--	6.2 ± 0.9	--	--
6/27/61	1120	--	2.9 ± 1.6	4.4 ± 0.7	0.3 ± 0.1	2.6 ± 0.3
6/27/61	905	--	2.1 ± 1.6	4.6 ± 0.7	0.1 ± 0.1	1.3 ± 0.1
6/27/61	755	--	< 3.4	3.2 ± 0.5	0.1 ± 0.1	1.6 ± 0.2
6/27/61	950	--	4 ± 2.6	3.4 ± 0.5	0.1 ± 0.1	1.1 ± 0.1
6/27/61	1020	--	1.5 ± 1	3 ± 0.4	< 0.1	0.8 ± 0.1
6/27/61	1055	--	< 1	2.6 ± 0.4	0.1 ± 0.1	0.7 ± 0.1
6/27/61	635	--	< 1.1	3 ± 0.4	< 0.1	0.9 ± 0.1
6/27/61	1320	--	< 1.5	16 ± 2	0.1 ± 0.1	1.8 ± 0.2
6/27/61	1150	--	< 0.8	6.7 ± 1	0.1 ± 0.1	0.1 ± 0.1
6/27/61	1540	--	1.6 ± 1.3	3.4 ± 0.5	< 0.1	0.5 ± 0.1
8/24/61	--	--	< 4.7	2.8 ± 0.4	< 0.1	0.6 ± 0.1
e. 10/61	--	--	< 3.7	2.5 ± 0.4	< 0.1	0.4 ± 0.1
e. 10/61	--	--	< 70	20 ± 3	2 ± 0.4	0.7 ± 0.5
e. 10/61	--	--	< 15	16 ± 2	0.6 ± 0.2	1 ± 0.1
e. 10/61	--	31544	< 1.1	2.6 ± 0.4	< 0.1	< 0.1
e. 10/61	--	--	< 5.7	7.6 ± 1.2	0.1 ± 0.1	2.6 ± 0.3
e. 10/61	--	--	< 2	1.3 ± 0.2	0.1 ± 0.1	0.6 ± 0.1
8/28/61	--	--	< 5.6	4.8 ± 0.7	< 0.1	1.7 ± 0.1
8/29/61	--	--	< 7.1	6.8 ± 1	0.9 ± 0.2	2.8 ± 0.3
10/15/63	--	--	--	6.1 ± 0.9	0.8 ± 0.2	2.3 ± 0.4
7/19/73	--	--	--	5.5 ± 0.8	3.6 ± 0.7	1.9 ± 0.2
10/15/63	--	--	--	2.6 ± 0.4	9.2 ± 1.8	< 0.4
10/15/63	--	--	--	7.9 ± 1.2	< 0.1	< 0.4
11/15/63	--	--	--	17 ± 3	0.2 ± 0.1	2.9 ± 0.4
10/15/63	--	--	--	21 ± 3	< 0.1	< 0.4
10/15/63	--	--	--	21 ± 3	0.1 ± 0.1	0.9 ± 0.4
10/15/63	--	--	--	7.4 ± 1.1	0.1 ± 0.1	1.1 ± 0.4
11/3/63	--	--	--	< 10	0.1 ± 0.1	11 ± 1
11/2/63	--	--	--	12 ± 2	0.1 ± 0.1	4 ± 0.4
11/3/63	--	--	--	15 ± 2	0.1 ± 0.1	4.1 ± 0.4
10/31/63	730	--	--	--	--	2.6 ± 0.4
10/30/63	1120	--	--	--	--	3 ± 0.4
10/31/63	1310	--	--	--	--	1.9 ± 0.4
10/30/63	1000	--	--	--	--	1.2 ± 0.4
11/1/63	820	--	--	--	--	0.5 ± 0.4
10/31/63	1700	--	--	--	--	1.1 ± 0.4
10/30/63	1400	--	--	--	--	< 0.4
10/30/63	1335	--	--	--	--	0.5 ± 0.4
10/30/63	1615	--	--	--	--	0.8 ± 0.4
10/31/63	1430	--	--	--	--	2 ± 0.4

County	Location of point of collection	River or stream
COLORADO (cont.)		
Jackson	Northgate	North Platte River
Grand	T. 4 N., R. 81 W., sec. 20, SE 1/4, gage 17 mi NW of Kremmling	Muddy Creek
Grand	T. 4 N., R. 76 W., sec. 12, gage 5 mi NW of Grand Lake below below Baker Gulch	Colorado River
Eagle	T. 75 S., R. 80 W., sec. 6, gage 3 mi. S. of Redcliff	Homestake Creek
Grand	Gage, near Granby	Colorado River
Summit	T. 5 S., R. 78 W., sec. 34, NE 1/4, SW 1/4, gage 0.5 mi W of Frisco	Tenmile Creek
Garfield	T. 6 S., R. 89 W., sec. 9, gage at Glenwood Springs	Roaring Fork River
Eagle	T. 5 S., R. 86 W., sec. 6, 1.5 mi W. of Dotsero	Colorado River
Summit	Near Dillon	Snake River
Grand	Near Winter Park	Fraser River
Boulder	T. 2 N., R. 72 W., sec. 20, SE 1/4, Ward, 10 ft downstream from confluence of South St. Vrain Creek and Beaver Creek	South St. Vrain Creek
Boulder	Near Ward	South St. Vrain Creek
Douglas	T. 7 S., R. 66 W., sec. 33, SE 1/4 NE 1/4, at bridge near Franktown	Cherry Creek
Jefferson	Near Plainview	Coal Creek
Jefferson	Near Golden	Clear Creek
Larimer	Near Livermore	N. fork of Cache La Poudre River
Larimer	Estes Park	Big Thompson River
Larimer	Near Drake	Big Thompson River
Jefferson	South Platte	South Platte River
Jefferson	Morrison	Bear Creek
Larimer	Near mouth of canyon, Ft. Collins	Cache La Poudre River
Boulder	Near Arodell	Boulder Creek
Yuma	T. 5 S. R. 44 W., sec. 36, SW 1/4, Hale	Landsman Creek
Yuma	T. 5 S., R. 44 W., sec. 13, SW 1/4, SE 1/4, gaging station	S. Fork Republican River
Mesa	T. 1 N., R. 2 W., sec. 20, SW 1/4 SE 1/4, highway bridge, Fruita	Colorado River
Routt	T. 6 N., R. 84 W., sec. 17, Steamboat Springs gaging station	Yampa River Springs
Mesa	T. 8 S., R. 97 W., sec. 23, SW 1/4, SW 1/4, De Beque	Colorado River
Moffat	T. 7 N., R. 98 W., sec. 20, NE 1/4 NW 1/4, Lily gaging station	Little Snake River
Rio Blanco	T. 1 N., R. 95 W., sec. 31, Meeker gaging station	White River
Rio Blanco	Buford gaging station	White River
Mesa	T. 2 S., R. 1 E., sec. 14, Grand Junction gaging station	Gunnison River
Rio Blanco	T. 1 N., R. 93 W., sec. 30, NE 1/4, Meeker gaging station	White River
Routt	T. 9 N., R. 85 W., sec. 28, Clark gaging station	Elk Rier
Mesa	T. 10 S., R. 97 W., sec. 18, SW 1/4 , NW 1/4, Cameo gaging station	Plateau Creek
Garfield	T. 5 S., R. 92 W., sec. 18, NW 1/4 NE 1/4, Rifle gaging station	Rifle Creek
Moffat	T. 6 N., R. 95 W., sec. 2, NW 1/4, Maybell gaging station	Yampa River
Moffat	At bridge near Maybell	Yampa River
Grand	T. 2 S., R. 75 W., sec. 4, NE 1/4, Winter Park gaging station	Fraser River
Mineral	T. 41 N., R. 1 E., sec. 35, SE 1/4 SW 1/4, Wagon Wheel gaging station	Goose Creek
Mineral	T. 41 N., R. 1 E., sec. 35, NE 1/4 NW 1/4, Wagon Wheel Gap gaging station	Rio Grande River
Gunnison	T. 49 N., R. 1 W., sec. 11, SW 1/4 NE 1/4, Gunnison gaging station	Tomichi Creek
Archuleta	T. 32 N., R. 4 W., sec. 17, SW 1/4 SE 1/4, Carracas gaging station	San Juan River
Montrose	T. 46 N., R. 15 W., sec. 19, SW 1/4 SE 1/4, Naturita gaging station	San Miguel River
Archuleta	T. 35 N., R. 2 W., sec. 13, S 1/2, Pagosa Springs gaging station	San Juan River
Archuleta	T. 33 N., R. 5 W., sec. 21, SW 1/4 NE 1/4, Arboles gaging station	Piedra River
La Plata	T. 33 N., R. 9 W., sec. 31, S 1/2, Bondad gaging station	Florida River
La Plata	T. 32 N., R. 9 W., sec. 7, La Plata gaging station near Cedar Hill, New Mexico	Animas River
Archuleta	T. 34 N., R. 4 W., sec. 17, NW 1/4 NW 1/4, Piedra gaging station	Piedra River

data for selected surface-water samples

Date sampled	Time (24 hour)	Discharge (cu ft/s)	Gross alpha; U-natural (µg/L)	Gross beta; Sr-90/Y-90 (pCi/L)	Radium-226 planchet (pCi/L	U-natural; direct fluor. (µg/L)
11/1/63	--	--	--	--	--	2.2 ± 0.4
10/31/63	1535	--	--	--	--	1.1 ± 0.4
11/1/63	745	--	--	--	--	< 0.4
10/30/63	930	--	--	--	--	< 0.4
11/1/64	700	--	--	--	--	0.6 ± 0.4
10/31/63	1000	--	--	--	--	1.5 ± 0.4
10/31/63	630	--	--	--	--	3.6 ± 0.4
10/30/63	1140	--	--	--	--	2.3 ± 0.4
10/31/63	1100	--	--	--	--	0.7 ± 0.4
11/1/63	1445	--	--	--	--	47 ± 5
12/13/63	--	--	--	13 ± 2	< 0.1	< 0.4
12/13/63	1400	--	--	--	--	< 0.4
12/12/63	1000	--	--	--	--	0.6 ± 0.4
12/12/63	1600	--	--	--	--	< 0.4
12/12/63	1500	--	--	--	--	4 ± 0.4
12/13/64	430	--	--	--	--	8.1 ± 0.8
12/13/64	1200	--	--	--	--	< 0.4
12/13/63	1100	--	--	--	--	< 0.4
12/12/63	1200	--	--	--	--	3 ± 0.4
12/12/63	1400	--	--	--	--	2.7 ± 0.4
12/13/63	1000	--	--	--	--	2.3 ± 0.4
12/13/63	1515	--	--	--	--	2.1 ± 0.4
12/28/63	1000	--	--	--	--	8.8 ± 0.9
12/28/63	1015	--	--	--	--	9.1 ± 0.9
1/14/64	915	--	--	--	--	10 ± 1
1/12/64	1445	--	--	--	--	0.6 ± 0.4
1/14/64	1230	--	--	--	--	5 ± 0.5
1/13/64	--	--	--	--	--	3.4 ± 0.4
1/14/64	1515	--	--	--	--	1.5 ± 0.4
1/14/64	1700	--	--	--	--	0.5 ± 0.4
1/14/64	1030	--	--	--	--	6.2 ± 0.6
1/14/64	1600	--	--	--	--	0.7 ± 0.4
1/12/64	1545	--	--	--	--	< 0.4
1/14/64	1130	--	--	--	--	7 ± 0.7
1/14/64	1400	--	--	--	--	6.8 ± 0.7
1/13/64	1130	--	--	--	--	1.2 ± 0.4
1/22/64	1300	--	--	8.8 ± 1.3	0.1 ± 0.1	1.3 ± 0.4
3/10/64	1020	--	--	13 ± 2	0.2 ± 0.1	43 ± 4
3/13/64	1745	--	--	20 ± 3	< 0.1	< 0.4
3/13/64	1800	--	--	3.1 ± 0.5	< 0.1	< 0.4
3/11/64	1020	--	--	--	--	5.3 ± 0.5
3/13/64	1045	--	--	--	--	0.4 ± 0.4
3/11/64	1530	--	--	--	--	1.4 ± 0.4
3/13/64	1230	--	--	--	--	< 0.4
3/13/64	900	--	--	--	--	0.8 ± 0.4
3/12/64	1730	--	--	--	--	3 ± 0.4
3/12/64	1715	--	--	--	--	3.3 ± 0.4
3/13/64	745	--	--	--	--	0.7 ± 0.4

Table 2.– ***Sample-site data and radiochemical***

County	Location of point of collection	River or stream
COLORADO (cont.)		
Montezuma	T. 32 N., R. 17 W., sec. 18, NW 1/4, Towaoc gaging station	Mancos River
Montezuma	T. 37 N., R. 15 W., sec. 16, Dolores gaging station	Dolores River
Ouray	T. 47 N., R. 8 W., sec. 17, NW 1/4, Colona gaging station	Uncompahgre River
Delta	T. 14 S., R. 95 W., sec. 34, S 1/2, Cory gaging station	Tongue Creek
La Plata	T. 35 N., R. 9 W., sec. 20, Durango gaging station	Animas River
Delta	T. 15 S., R. 96 W., sec. 13, SW 1/4, Delta gaging station	Uncompahgre River
Rio Grande	T. 39 N., R. 8 E., sec. 19, Monte Vista gaging station	Rio Grande River
Montezuma	T. 35 N., R. 20 W., sec. 2 NE 1/4 NW 1/4, Ismay Trading Post gaging station	McElmo Creek
Conejos	T. 33 N., R. 11 E., sec. 22, Lobatos gaging station	Rio Grande River
Conejos	T. 33 N., R. 7 E., sec. 34, SE 1/4, Mogote gaging station	Conejos River
Archuleta	Edith	Navajo River
Rio Grande	Del Norte	Rio Grande River
Conejos	T. 36 N., R. 6 E., sec. 8, Capulin gaging station	Alamosa Creek
Montrose	T. 47 N., R. 17 W., sec. 2, NE 1/4 SW 1/4, Uravan gaging station	San Miguel River
Costilla	San Luis	Culebra Creek
Conejos	Near Lasauses	Conejos River
Gunnison	T. 50 N., R. 1 W., sec. 34, SE 1/4 SE 1/4, Gunnison gaging station	Gunnison River
Dolores	T. 39 N., R. 11 W., sec. 15, SW 1/4, Rico gaging station	Dolores River
Clear Creek	T. 3 S., R. 74 W., sec. 27, SE 1/4 NW 1/4 NW1/4, Clear Creek	W. fork of Clear Creek
Clear Creek	T. 4 S., R. 74 W., sec. 4, NW 1/4 NW 1/4 SW 1/4, below Georgetown	Clear Creek
Clear Creek	T. 3 S., R. 74 W., sec. 27, NE 1/4 SE 1/4, Lawson	Clear Creek
Jefferson	T. 4 S., R. 70 W., sec. 35, SW 1/4 SE 1/4, Morrison gaging station	Bear Creek
Routt	T. 9 N., R. 85 W., sec. 28, Clark gaging station	Elk River
Jefferson	T. 7 S., R. 70 W., sec. 25 SE 1/4, South Platte gaging station	South Platte River
Routt	T. 6 N., R. 84 W., sec. 17, Steamboat Springs gaging station	Yampa River
Moffat	T. 7 N., R. 98 W., sec. 20, NE 1/4 NW 1/4, Lily gaging station	Little Snake River
Jefferson	T. 2 S., R. 71 W., sec. 13, NE 1/4 SE 1/4, Plainview gaging station	Coal Creek
Moffat	T. 6 N., R. 95 W., sec. 2, NW 1/4, Maybell gaging station	Yampa River
Rio Blanco	T. 1 N., R. 95 W., sec. 31, Meeker gaging station	White River
Rio Blanco	T. 1 S., R. 91 W., sec. 9, NW 1/4, Buford below gage	White River
Rio Blanco	T. 1 N. R 93 W., sec. 30, NE 1/4, Meeker gage	White River
Montezuma	T. 37 N., R. 15 W., sec. 16, Dolores	Dolores River
La Plata	T. 37 N., R. 6 W., sec. 16, NW 1/4, Vallecito Creek benchmark	Vallecito Creek
Montezuma	T. 39 N., R. 11 W., sec. 15, SW 1/4, Rico gaging station	Dolores River
Montrose	T. 48 N., R. 18 W., sec. 36, NE 1/4, 1 mi above confluence of Dolores River and San Miguel River, Uravan	Dolores River
Delta	T. 14 S., R. 95 W., sec. 34, S 1/2, Cory gaging station	Tongue Creek
Mesa	T. 10 S., R. 97 W., sec. 18, SW 1/4 NW 1/4, Cameo gaging station	Plateau Creek
Ouray	T. 47 N., R. 8 W., sec. 17, NW 1/4, Colona gaging station	Uncompahgre River
Rio Grande	T. 39 N., R. 8 E., sec. 19, Monte Vista gaging station	Rio Grande River
Delta	T. 15 S., R. 96 W., sec. 13, SW 1/4, Delta gaging station	Uncompahgre River
Mesa	T. 8 S., R. 97 W., sec. 23, SW 1/4 SW 1/4, De Beque gaging station	Colorado River
Mesa	T. 2 S., R. 1 E., sec. 14, Grand Junction gaging station	Gunnison River
Mesa	T. 1 N., R. 2 W., sec. 29, SW 1/4 SE 1/4, Fruita gaging station	Colorado River
Archuleta	T. 33 N., R. 5 W., sec. 21, SW 1/4 NE 1/4, Arboles gaging station	Piedra River
Rio Grande	T. 40 N., R. 5 E., sec. 29, NW 1/4, Del Norte gaging station	Rio Grande River
Conejos	T. 36 N., R. 6 E., sec. 8, Terrace Reservoir gaging station	Alamosa Creek
Eagle	T. 6 S., R. 80 W., sec. 19, SE 1/4, Red Cliff gaging station	Eagle River
Costilla	San Luis gaging station	Culebra Creek
La Plata	T. 33 N., R. 9 W., Bondad gaging station	Florida River

data for selected surface-water samples

Date sampled	Time (24 hour)	Discharge (cu ft/s)	Gross alpha; U-natural (µg/L)	Gross beta; Sr-90/Y-90 (pCi/L)	Radium-226 planchet (pCi/L	U-natural; direct fluor. (µg/L)
3/12/64	1205	--	--	--	--	7.1 ± 0.7
3/12/64	810	--	--	--	--	0.9 ± 0.4
3/11/64	1330	--	--	--	--	1.7 ± 0.4
3/11/64	745	--	--	--	--	14 ± 1
3/12/64	600	--	--	--	--	0.5 ± 0.4
3/11/64	710	--	--	--	--	18 ± 2
3/14/64	800	--	--	--	--	< 0.4
3/12/64	1400	--	--	--	--	16 ± 2
3/14/64	1230	--	--	--	--	0.8 ± 0.4
3/14/64	1115	--	--	--	--	< 0.4
3/13/64	1335	--	--	--	--	< 0.4
3/14/64	645	--	--	--	--	0.6 ± 0.4
3/14/64	915	--	--	--	--	< 0.4
3/11/64	1610	--	--	--	--	3.4 ± 0.4
3/14/64	1330	--	--	--	--	8.6 ± 0.9
3/14/64	1500	--	--	--	--	1.1 ± 0.4
3/11/64	1045	--	--	--	--	1.6 ± 0.4
3/12/64	930	--	--	--	--	< 0.4
4/8/64	1130	--	--	--	--	0.9 ± 0.4
4/8/64	1100	--	--	--	--	1.4 ± 0.4
4/8/64	1030	--	--	--	--	1.4 ± 0.4
5/6/64	1000	--	--	--	--	0.5 ± 0.4
5/6/64	1700	--	--	--	--	< 0.4
5/6/64	1100	--	--	--	--	1.9 ± 0.4
5/6/64	1600	--	--	--	--	< 0.4
5/7/64	700	--	--	--	--	2.8 ± 0.4
5/6/64	900	--	--	--	--	0.6 ± 0.4
5/7/64	600	--	--	--	--	1.1 ± 0.4
5/7/64	1330	--	--	15 ± 2	< 0.1	0.8 ± 0.4
5/7/64	1540	--	--	13 ± 2	0.1 ± 0.1	0.4 ± 0.4
5/7/64	1430	--	--	13 ± 2	< 0.1	0.5 ± 0.4
5/13/64	830	--	--	33 ± 5	0.5 ± 0.1	0.4 ± 0.4
5/12/64	1500	--	--	27 ± 4	0.1 ± 0.1	0.6 ± 0.4
5/13/64	1000	--	--	39 ± 6	0.1 ± 0.1	0.6 ± 0.4
5/13/64	1500	--	--	37 ± 6	0.7 ± 0.1	2.9 ± 0.3
5/14/64	1000	--	--	--	--	0.7 ± 0.4
5/14/64	1330	--	--	--	--	1.6 ± 0.4
5/13/64	1745	--	--	--	--	0.6 ± 0.4
5/11/64	1840	--	--	--	--	< 0.4
5/14/64	930	--	--	--	--	7 ± 0.7
5/14/64	1400	--	--	--	--	2 ± 0.4
5/14/64	1100	--	--	--	--	5.5 ± 0.6
5/14/64	1200	--	--	--	--	5 ± 0.5
5/12/64	1220	--	--	--	--	< 0.4
5/12/64	545	--	--	--	--	< 0.4
5/11/64	1745	--	--	--	--	< 0.4
5/16/64	800	--	--	--	--	1 ± 0.4
5/11/64	1300	--	--	--	--	6.9 ± 0.7
5/12/64	1715	--	--	--	--	2.7 ± 0.4

County	Location of point of collection	River or stream
COLORADO (cont.)		
Gunnison	T. 50 N., R. 1 W., sec. 34, SE 1/4 SE 1/4, Gunnison gaging station	Gunnison River
Garfield	T. 5 S., R. 92 W., sec. 18, NW 1/4 NE 1/4, Rifle gaging station	Rifle Creek
Mineral	T. 41 N., R. 1 E., sec. 35, NE 1/4, Wagon Wheel Gap gaging station	Rio Grande River
Eagle	T. 5 S., R. 85 W., sec. 5, NW 1/4, Gypsum gaging station	Eagle River
Archuleta	T. 34 N., R. 4 W., sec. 17, NW 1/4 NW 1/4, Piedra gaging station	Piedra River
Montrose	T. 47 N., R. 17 W., sec. 2, NE 1/4 SW 1/4, Uravan gaging station	San Miguel River
Gunnison	T. 49 N., R. 1 W., sec. 11, SW 1/4 NE 1/4, Gunnison gaging station	Tomichi Creek
La Plata	T. 32 N., R. 9 W., sec. 7, gage near Cedar Hill, New Mexico	Animas River
Conejos	T. 33 N., R. 11 E., sec. 22, Lobatos gaging station	Rio Grande River
Montezuma	T. 32 N., R. 17 W., sec. 18, NW 1/4, Towaoc gaging station	Mancos River
Archuleta	T. 32 N., R. 1 W., sec. 24, NW 1/4, Edith gaging station	Navajo River
Jackson	T. 7 N., R. 77 W., sec. 27, NE 1/4 NE 1/4, Gould gaging station	N. fork of Michigan River
Archuleta	T. 35 N., R. 2 W., sec. 13, S 1/2, Pagosa Springs gaging station	San Juan River
Archuleta	T. 32 N., R. 4 W., sec. 17, SW 1/4 SE 1/4, Curracas gaging station	San Juan River
Mineral	T. 41 N., R. 1 E., sec. 35, SE 1/4 SW 1/4, Wagon Wheel gaging station	Goose Creek
La Plata	T. 35 N., R. 9 W., sec. 20, Durango gaging station	Animas River
Jackson	T. 11 N., R. 80 W., sec. 11, SE 1/4 SW 1/4, Northgate gaging station	North Platte River
Conejos	T. 33 N., R. 7 E., sec. 34, SE 1/4, Mogote gaging station	Conejos River
Grand	T. 1 N., R. 81 W., sec. 23, SW 1/4 NE 1/4, Kremmling gaging station	Colorado River
Grand	T. 2 S., R. 75 W., sec. 4, NE 1/4, Winter Park gaging station	Fraser River
Montrose	T. 46 N., R. 15 W., sec. 19, SW 1/4 SE 1/4, Naturila gaging station	San Miguel River
Conejos	T. 35 N., R. 11 E., sec. 2 and sec. 11, Lasauses gaging station	Conejos River
Eagle	T. 5 S., R. 86 W., sec. 6, Dotsero gaging station	Colorado River
Clear Creek	T. 3 S., R. 74 W., sec. 27, SE 1/4 NW 1/4 NW 1/4, Empire gaging station	
Grand	T. 4 N., R. 76 W., sec. 12, NW1/4NE1/4SW1/4, Baker Gulch gaging station	Colorado River
Grand	T. 2 N., R. 76 W., sec. 22, NW 1/4 SW 1/4, Granby gaging station	Colorado River
Grand	T. 3 N., R. 76 W., sec. 13, SW 1/4 NE 1/4, Grand Lake gaging station	Colorado River
Clear Creek	T. 4 S., R. 74 W., sec. 4, NW1/4NW1/4SW1/4, Georgetown gaging station	Clear Creek
Eagle	T. 8 S., R. 84 W., sec. 18, NW 1/4, Ruedi gaging station	Fryingpan Creek
Pitkin	T. 10 S., R. 88 W., sec. 31, SE 1/4, Placita gaging station	Crystal River
Grand	T. 1 N., R. 78 W., sec. 31, SW 1/4, Parshall gaging station	Williams Fork River
Pitkin	T. 9 S., R. 88 W., sec. 9, NE 1/4, Redstone gaging station	Crystal River
Summit	T. 5 S., R. 78 W., sec. 34, NE 1/4 SW 1/4, Frisco gaging station	Tenmile Creek below North Fork
Summit	T. 2 S., R. 79 W., sec. 34, S 1/2, Green Mountain Reservoir gaging station	Blue River
Garfield	T. 6 S., R. 89 W., sec. 9, SE 1/4 SW 1/4 NW 1/4, Glenwood Springs gaging station	Roaring Fork River
Eagle	T. 7 S., R. 80 W., sec. 6, Red Cliff gaging station	Homestake Creek
Summit	T. 5 S., R. 77 W., sec. 17, SW 1/4, Dillon gaging station	Snake River
Boulder	T. 2 N., R. 72 W., sec. 20, SE 1/4 NW 1/4, Ward gaging station	South St. Vrain Creek
Larimer	T. 8 N., R. 70 W., sec. 15, NW 1/4 NW 1/4, Mouth of Canyon, Ft. Collins gaging station	Cache La Poudre River
Larimer	T. 9 N., R. 70 W., sec. 33, SE 1/4 ,NW 1/4, Livermore gaging station	N. Fork Cache La Poudre River
Boulder	T. 1 N., R. 71 W., sec. 34, SW 1/4 NE 1/4, Orodell gaging station	Boulder Creek
Jefferson	T. 3 S., R. 70 W., sec. 32, NE 1/4, Golden gaging station	Clear Creek
Larimer	T. 5 N., R. 72 W., sec. 30, NW 1/4 NW 1/4, Estes Park gaging station	Big Thompson River
Larimer	T. 5 N., R. 70 W., sec. 10, NW 1/4, Drake gaging station	Big Thompson River
Grand	R. 75 W., Stream above U.S. Highway 40	Current Creek
Grand	R. 75 W., Stream above Fraser River	Robert Creek
Grand	R. 75 W., Stream above Robert Creek	Fraser River
Grand	R. 75 W., Stream above U.S. Highway 40	Second Creek
Grand	R. 75 W., Stream above Fraser River	Flora Creek

data for selected surface-water samples

Date sampled	Time (24 hour)	Discharge (cu ft/s)	Gross alpha; U-natural (µg/L)	Gross beta; Sr-90/Y-90 (pCi/L)	Radium-226 planchet (pCi/L	U-natural; direct fluor. (µg/L)
5/14/64	600	--	--	--	--	0.5 ± 0.4
5/14/64	1500	--	--	--	--	3.9 ± 0.4
5/12/64	650	--	--	--	--	< 0.4
5/15/64	630	--	--	--	--	2 ± 0.4
5/12/64	1300	--	--	--	--	< 0.4
5/13/64	1400	--	--	--	--	0.8 ± 0.4
5/14/64	700	--	--	--	--	4.5 ± 0.4
5/12/64	1700	--	--	--	--	1.7 ± 0.4
5/11/64	1400	--	--	--	--	2.9 ± 0.4
5/13/64	715	--	--	--	--	6.8 ± 0.7
5/12/64	930	--	--	--	--	< 0.4
5/15/64	1430	--	--	--	--	0.5 ± 0.4
5/12/64	830	--	--	--	--	< 0.4
5/12/64	1130	--	--	--	--	< 0.4
5/12/64	630	--	--	--	--	< 0.4
5/13/64	540	--	--	--	--	0.8 ± 0.4
5/15/64	1300	--	--	--	--	1.1 ± 0.4
5/11/64	1500	--	--	--	--	< 0.4
5/15/64	1115	--	--	--	--	3.6 ± 0.4
5/15/64	1630	--	--	--	--	3.5 ± 0.4
5/13/64	1320	--	--	--	--	0.4 ± 0.4
5/11/64	1615	--	--	--	--	< 0.4
5/15/64	600	--	--	--	--	1.5 ± 0.4
5/27/64	1245	--	--	--	--	< 0.4
5/27/64	1200	--	--	--	--	0.5 ± 0.4
5/27/64	1215	--	--	--	--	< 0.4
5/27/64	1000	--	--	--	--	0.5 ± 0.4
5/28/64	800	--	--	--	--	0.4 ± 0.4
5/28/64	630	--	--	--	--	< 0.4
5/27/64	1400	--	--	--	--	1 ± 0.4
5/28/64	600	--	--	--	--	0.4 ± 0.4
5/27/64	1700	--	--	--	--	8.7 ± 0.7
5/27/64	1500	--	--	--	--	1 ± 0.4
5/28/64	500	--	--	--	--	0.8 ± 0.4
5/27/64	1800	--	--	--	--	0.4 ± 0.4
5/27/64	1600	--	--	--	--	0.9 ± 0.4
5/26/64	1430	--	--	--	--	< 0.4
5/26/64	1115	--	--	--	--	0.8 ± 0.4
5/26/64	1100	--	--	--	--	8.8 ± 0.9
5/26/64	1600	--	--	--	--	< 0.4
5/26/64	1700	--	--	--	--	0.6 ± 0.4
5/26/64	1300	--	--	--	--	0.6 ± 0.4
5/26/64	1200	--	--	--	--	0.4 ± 0.4
6/26/64	--	--	--	--	--	0.9 ± 0.4
6/26/64	--	--	--	--	--	0.8 ± 0.4
6/26/64	--	--	--	--	--	0.7 ± 0.4
6/26/64	--	--	--	--	--	1.5 ± 0.4
6/26/64	--	--	--	--	--	0.7 ± 0.4

County	Location of point of collection	River or stream
COLORADO (cont.)		
Grand	R. 75 W., River above bridge on U.S. Highway 40	Fraser River
Grand	R. 75 W., Stream above U.S. Highway 40	First Creek
Grand	R. 75 W., Stream above Fraser River	Eva Creek
Grand	R. 75 W., Stream above Fraser River	Parsenu Creek
Grand	R. 75 W., River abover Parsenu Creek	Fraser River
Grand	T. 2 S., R. 75 W., Stream above Fraser River	Parry Creek
Grand	T. 2 S., R. 75 W., River above Jim Creek	Fraser River
Grand	T. 2 S., R. 75 W., Stream above Fraser River	Jim Creek
Grand	T. 2 S., R. 75 W., Stream above private road near Fraser River	Mary Jane Creek
Grand	T. 2 S., R. 75 W., Stream below U.S. Highway 40	Buck Creek
Grand	T. 2 S., R. 75 W., Stream above road near Idlewild Ranger station	Cooper Creek
Grand	T. 2 S., R. 75 W., Stream above U.S. Highway 40	Cub Creek
Grand	R. 75 W., River at gaging station	Fraser River
Chaffee	T. 50 N., R. 9 E., sec. 31, NE1/4, Salida gaging station	Arkansas River
Chaffee	T. 12 S., R. 79 W., 1 mi S. of Granite, end of spillway at U.S. Highway 24	Clear Creek
Chaffee	T. 49 N., R. 9 E., sec. 4, SW 1/4, 1 mi S. of Salida, at gaging station	S. Arkansas River
Fremont	T. 18 S., R. 70 W., sec. 31, SE 1/4, Canon City gaging station	Arkansas River
Prowers	T. 22 S., R. 46 W., sec. 30, SE 1/4, Lamar gaging station	Arkansas River
Pueblo	T. 21 S., R. 63 W., sec. 1, SW 1/4, 2 mi. W. of Avondale, bridge at U.S. Highway 50	Six Mile Creek
Bent	T. 22 S., R. 52 W., sec. 35, SW 1/4, 0.5 mi N. of Las Animas, at gaging station	Arkansas River
Otero	T. 22 S., R. 59 W., sec. 35, NW 1/4, 4 mi SE. of Fowler, at gage	Apishapa River
Prowers	T. 23 S., R. 41 W., sec. 17, NE 1/4, 3.75 mi E. of Holly, bridge at U.S. 50	Cheyenne River
Pueblo	T. 20 S., R. 64 W., sec. 30, SW 1/4, Pueblo gaging station	Fountain Creek
Bent	T. 23 S., R. 52 W., sec. 23, NE 1/4, 2.5 mi SE. of Las Animas, at gaging station	Purgatoire River
Otero	T. 23 S., R. 56 W., sec. 26, NE 1/4, 1 mi W. of Swink, bridge at U.S. Highway 50	Timpas Creek
Lake	T. 9 S., R. 81 W., sec. 13, 6 mi W. of Leadville, at gaging station	Lake Fork
Chaffee	T. 11 S., R. 79 W., sec. 31, SW 1/4, Granite gaging station	Arkansas River
Lake	T. 9 S., R. 80 W., sec. 11, SW 1/4, 2 mi NE. of Leadville, bridge at Colorado Highway 91	E. Fork Arkansas River
Lake	T. 11 S., R. 80 W., sec. 22, NE 1/4, Outlet of Twin Lakes spillway	Twin Lakes
Pueblo	T. 21 S., R. 60 W., sec. 31, NW 1/4, 1.25 mi W. of Nepesta, at gaging station	Arkansas River
Prowers	T. 22 S., R. 45 W., sec. 21, SW 1/4, 7 mi NE. of Lamar, bridge on Colorado Highway 196	Big Sandy Creek
Pueblo	T. 21 S., R. 63 W., Pueblo, bridge at U.S. Highway 50	St. Charles River
Bent	T. 23 S., R. 49 W., sec. 4, NW 1/4, John Martin Dam, at gaging station	Arkansas River
Pueblo	T. 20 S., R. 65 W., sec. 34, NW 1/4, Pueblo gaging station	Arkansas River
Pueblo	T. 21 S., R. 62 W., sec. 9, NE 1/4, Avondale, bridge at Colorado Highway 50	Unnamed drainage ditch
Lake	T. 11 S., R. 80 W., sec. 3, NE 1/4 NE 1/4, 7 mi S. of Leadville, bridge U.S. Highway 6-50	Irrigation ditch
Lake	T. 9 S., R. 80 W., sec. 28, NW 1/4, Leadville (Stringtown) bridge in railway station	California Gulch
Chaffee	T. 15 S., R. 78 W., sec. 14, SE 1/4, 0.5 mi S. of Nathrop, bridge at U.S. Highway 24	Chalk Creek
Bent	T. 22 S., R. 49 W., sec. 27, NE 1/4, 3 mi E. of Hasty, bridge on U.S. Highway 6-50	Lubers dralnage ditch
Chaffee	T. 49 N., R. 9 E., sec. 4, SW 1/4, Salida, bridge on U.S. Highway 6-50	Irrigation ditch

data for selected surface-water samples

Date sampled	Time (24 hour)	Discharge (cu ft/s)	Gross alpha; U-natural (µg/L)	Gross beta; Sr-90/Y-90 (pCi/L)	Radium-226 planchet (pCi/L	U-natural; direct fluor. (µg/L)
6/26/64	--	--	--	--	--	0.7 ± 0.4
6/26/64	--	--	--	--	--	< 0.4
6/26/64	--	--	--	--	--	1 ± 0.4
6/26/64	--	--	--	--	--	0.6 ± 0.4
6/26/64	--	--	--	--	--	0.9 ± 0.4
6/26/64	--	--	--	--	--	0.7 ± 0.4
6/26/64	--	--	--	--	--	0.5 ± 0.4
6/26/64	--	--	--	--	--	< 0.4
6/26/64	--	--	--	--	--	< 0.4
6/26/64	--	--	--	--	--	< 0.4
6/26/64	--	--	--	--	--	< 0.4
6/26/64	--	--	--	--	--	< 0.4
6/26/64	--	--	--	--	--	18 ± 2
6/29/64	1605	--	--	9.9 ± 1.5	< 0.1	2.2 ± 0.4
6/29/64	1450	--	--	12 ± 2	< 0.1	0.4 ± 0.4
6/29/64	1655	--	--	6.6 ± 1	0.1 ± 0.1	7.4 ± 0.7
6/29/64	1830	--	--	9.7 ± 1.5	< 0.1	2.3 ± 0.4
6/30/64	1550	--	--	33 ± 5	0.2 ± 0.1	59 ± 6
6/30/64	940	--	--	11 ± 2	0.1 ± 0.1	69 ± 7
6/30/64	1405	--	--	18 ± 3	0.5 ± 0.1	9.6 ± 1
6/30/64	--	--	--	28 ± 4	0.1 ± 0.1	28 ± 3
6/30/64	1700	--	--	42 ± 6	0.3 ± 0.1	90 ± 9
6/30/64	705	--	--	15 ± 2	0.1 ± 0.1	16 ± 2
6/30/64	1340	--	--	27 ± 4	0.1 ± 0.1	37 ± 4
6/30/64	--	--	--	16 ± 2	0.5 ± 0.4	14 ± 1
6/29/64	1305	--	--	15 ± 2	0.1 ± 0.1	< 0.4
6/29/64	1430	--	--	11 ± 2	0.4 ± 0.1	1.3 ± 0.4
6/29/64	1150	--	--	16 ± 2	1.8 ± 0.4	30 ± 3
6/29/64	--	--	--	13 ± 2	< 0.1	< 0.4
6/30/64	1035	--	--	39 ± 6	0.3 ± 0.1	3 ± 0.4
6/30/64	1705	--	--	46 ± 7	0.3 ± 0.1	94 ± 9
6/30/64	815	--	--	31 ± 5	0.1 ± 0.1	25 ± 2
6/30/64	1450	--	--	78 ± 12	0.2 ± 0.1	17 ± 2
6/30/64	635	--	--	34 ± 5	1.4 ± 0.3	1.8 ± 0.4
6/30/64	--	--	--	--	--	36 ± 4
6/29/64	1340	--	--	--	--	1.9 ± 0.4
6/29/64	1340	--	--	--	--	4.6 ± 0.5
6/29/64	1530	--	--	--	--	1.3 ± 0.4
6/30/64	--	--	--	--	--	120 ± 10
6/29/64	1655	--	--	--	--	4 ± 0.4

County	Location of point of collection	River or stream
COLORADO (cont.)		
Chaffee	T. 14 S., R. 78 W., sec. 8, SW 1/4, Buena Vista, bridge on U.S. Highway 24	Cottonwood Creek
Fremont	T. 48 N., R. 76 W., sec. 11, NW 1/4, 1 mi SE. of Howard, U.S. Highway 6-50	West Creek
Prowers	T. 22 S., R. 46 W., sec. 36, SW 1/4, 4.5 mi E. of Lamar, bridge on U.S. Highway 6-50	Clay Creek
Boulder	T. 1 S., R. 73 W., sec 21, NW 1/4, drainage culvert, Eldora	Mine dump on Middle
Boulder	T. 1 S., R. 73 W., sec. 21, NW 1/4, Eldora, N. bank below benchmark	Middle Boulder Creek
Clear Creek	T. 3 S., R. 74 W., sec. 27, SE 1/4 NW 1/4 NW 1/4, Lawson	W. of Fork Clear Creek
Jefferson	T. 3 S., R. 70 W., sec. 32, NE 1/4, Golden, SW. of gaging station	Clear Creek
Eagle	T. 6 S., R. 80 W., sec. 19, SE 1/4, Red Cliff	Eagle River
Clear Creek	T. 3 S., R. 74 W., sec. 26, NE1/4 SE 1/4 NE1/4, Lawson	Clear Creek
Summit	T. 6 S., R. 77 W., sec. 7, SW 1/4 SE 1/4 SE 1/4	Blue River
Eagle	T. 7 S., R. 80 W., sec. 6, NE 1/4 NE 1/4	Homestake Creek
Clear Creek	Lat 39°46'14" N., long 105°51'05" W., near S. portal of the Vasquez Tunnel	W. fork of Clear Creel
Park	T. 7 S., R. 74 W., sec. 10, NW 1/4	N. Fork of South Platte River
Summit	T. 6 S., R. 77 W., sec. 7, SE 1/4 SW 1/4 NE 1/4	Swan River
Summit	T. 5 S., R. 77 W., sec. 31, SE 1/4 SW 1/4 NE 1/4, Frisco	Blue River
Clear Creek	Lat 39°45'46" N., long 105°43'37" W., 400 ft. SE. of Empire Guard Station	W. Fork of Clear Creek
Summit	T. 8 S., R. 78 W., sec. 1, NE 1/4 NE 1/4	Blue River
Clear Creek	Lat 39°46'12" N., long 105°48'52" W., 25 ft above confluence with W. Fork Clear Creek, Berthoud Falls	Woods Creek
Clear Creek	T. 4 S., R. 74 W., sec. 4, NW 1/4 NW 1/4 SW 1/4, below Georgetown	Clear Creek
Clear Creek	Lat 39°45'09" N., long 105°46'44" W., 200 ft above confluence with Woods Creek, Berthoud Falls	W. Fork of Clear Creek
Clear Creek	Lat 39°46'45" N., long 105°45'55" W., Clear Creek Campground	W. Fork of Clear Creek
Summit	T. 7 S., R. 78 W., sec. 7, NE1/4	Ten Mile Creek
Summit	T. 6 S., R. 78 W., sec. 19, SE 1/4 SE 1/4 SE 1/4	W. Ten Mile Creek
Summit	T. 5 S., R. 78 W., sec. 13, SE 1/4 NE 1/4 SE 1/4, Frisco	Dillon Reservoir
Summit	T. 5 S., R. 77 W., sec. 31, NE 1/4 SW 1/4 SW 1/4, Frisco	Dillon Reservoir
Summit	T. 6 S., R. 78 W., sec. 29, NW 1/4 NW 1/4	Ten Mile Creek
Clear Creek	Lat 39°45'09" N., long 105°48'38" W., 200 ft below confluence with W. Fork Clear Creek, Berthoud Falls	W. Fork of Clear Creek
Clear Creek	T. 3 S., R. 74 W., sec. 29, NW 1/4 SE 1/4 SW 1/4, Empire	Mad Creek
Eagle	T. 7 S., R. 79 W., sec. 19, SE 1/4 SW 1/4	E. Fork of Eagle River
Summit	T. 7 S., R. 77 W., sec. 7, NE 1/4 SE 1/4	Blue River
Eagle	T. 7 S., R. 80 W., sec. 27, SE 1/4 NW 1/4 NE 1/4	Mitchell Creek
Summit	T. 5 S., R. 77 W., sec. 21, NE 1/4 SW 1/4 SE 1/4, Dillon	Dillon Reservoir
Lake	T. 9 S., R. 80 W., sec. 14, NW 1/4 NE 1/4 NW 1/4, Leadville	E. Fork of Arkansas River
Eagle	T. 7 S., R. 80 W., sec. 15, SW 1/4 NE 1/4 SE 1/4	Eagle River
Eagle	T. 7 S., R. 80 W., sec. 10, SW 1/4 SW 1/4 SE 1/4	Resolution Creek
Jefferson	T. 7 S., R. 70 W., sec. 25, SW 1/4	N. Fork of South Platte River
Lake	T. 8 S., R. 80 W., sec. 28, NE 1/4 SW 1/4 NE 1/4	Tennessee Creek
Jefferson	T. 7 S., R. 70 EW, sec. 25, SE 1/4	South Platte River
Jefferson	T. 9 S., R. 70 W., sec. 30, NE 1/4 NW 1/4 NW 1/4	Wigwam Creek
Jefferson	T. 9 S., R. 70 W., sec. 21, SE 1/4 NW 1/4 NW 1/4	South Platte River
Summit	T. 5 S., R. 78 W., sec. 34, NE 1/4 SW 1/4	Ten Mile Creek
Jefferson	T. 8 S., R. 71 W., sec. 1, SE 1/4 NE 1/4 SE 1/4	Buffalo Creek
Summit	T. 7 S., R. 79 W., sec. 13, SW 1/4 NE 1/4	Ten Mile Creek
Park	- -	N. Fork of South Platte River
Chaffee	T. 49 N., R. 8 E., sec. 10, SW 1/4 SW 1/4 NE 1/4, Poncha Springs	South Arkansas River
Boulder	T. 1 S., R. 73 W., sec. 22, SW 1/4 NW 1/4 NW 1/4, Eldora	Middle Boulder Creek

data for selected surface-water samples

Date sampled	Time (24 hour)	Discharge (cu ft/s)	Gross alpha; U-natural (µg/L)	Gross beta; Sr-90/Y-90 (pCi/L)	Radium-226 planchet (pCi/L		U-natural; direct fluor. (µg/L)
6/29/64	1520	--	--	--	--		1.6 ± 0.4
6/29/64	1725	--	--	--	--	<	0.4
6/30/64	1645	--	--	--	--		19 ± 2
7/16/64	--	--	--	--	0.4 ± 0.1		1.1 ± 0.4
7/16/64	--	--	--	--	0.1 ± 0.1	<	0.4
10/6/65	1025	--	--	--	--		0.8 ± 0.4
10/6/65	900	--	--	--	--		1.5 ± 0.4
9/29/65	1630	--	--	--	--		6.4 ± 0.6
10/6/65	950	--	--	--	--		1.1 ± 0.4
9/29/65	1145	--	--	--	--	<	0.4
9/29/65	1730	--	--	--	--		1.3 ± 0.4
10/6/65	1300	--	--	--	--		0.4 ± 0.4
9/24/65	1100	--	--	--	--		0.4 ± 0.4
9/29/65	1200	--	--	--	--	<	0.4
9/29/65	1310	--	--	--	--		0.5 ± 0.4
10/6/65	1050	--	--	--	--		0.9 ± 0.4
9/29/65	1050	--	--	--	--		1.5 ± 0.4
10/6/65	1155	--	--	--	--		1.1 ± 0.4
10/6/65	1007	--	--	--	--		1.2 ± 0.4
10/6/65	1150	--	--	--	--		0.4 ± 0.4
10/6/65	1100	--	--	--	--		0.6 ± 0.4
9/29/65	1450	--	--	--	--		3.7 ± 0.4
9/29/65	1400	--	--	--	--		0.9 ± 0.4
9/30/65	1200	--	--	--	--		1.4 ± 0.4
9/29/65	1300	--	--	--	--		0.6 ± 0.4
9/29/65	--	--	--	--	--		1.6 ± 0.4
10/6/65	1	--	--	--	--	<	0.4
10/6/65	1345	--	--	--	--	<	0.4
9/20/65	1000	--	--	--	--		36 ± 4
9/29/65	1110	--	--	--	--		0.9 ± 0.4
9/29/65	1600	--	--	--	--	<	0.4
9/30/65	1300	--	--	--	--		1.4 ± 0.4
9/30/65	730	--	--	--	--		16 ± 2
9/30/65	900	--	--	--	--		14 ± 2
9/30/65	915	--	--	--	--		0.9 ± 0.4
9/24/65	1515	--	--	--	--		1.6 ± 0.4
9/30/65	745	--	--	--	--	<	0.4
9/24/65	1500	--	--	--	--		0.8 ± 0.4
9/24/65	1330	--	--	--	--	<	0.4
9/24/65	1345	--	--	--	--		3.5 ± 0.4
9/29/65	1340	--	--	--	--		1.5 ± 0.4
9/24/65	1210	--	--	--	--	<	0.4
9/29/65	1500	--	--	--	--		6.5 ± 0.6
9/24/65	1015	--	--	--	--	<	0.4
11/16/65	1430	--	--	--	--		4.3 ± 0.4
11/24/65	1300	--	--	--	--	<	0.4

Table 2.-- ***Sample-site data and radiochemical***

County	Location of point of collection	River or stream
COLORADO (cont.)		
Boulder	T. 1 S., R. 72 W., sec. 18, NE 1/4 NW 1/4 SE 1/4, Nederland	Barker Reservoir
Chaffee	T. 14 S., R. 77 W., sec. 18, SW 1/4 SW 1/4 SE 1/4, Buena Vista	Trout Creek
Gilpin	T. 3 S., R. 72 W., sec. 17, SE 1/4 SE 1/4 NW 1/4, Black Hawk	North Clear Creek
Gilpin	T. 1 S., R. 73 W., sec. 36, SE 1/4 SE 1/4, Rollinsville	South Boulder Creek
Chaffee	T. 50 N., R. 7 E., sec. 28, SE 1/4 NE 1/4, Maysville	N. Fork of South Arkansas River
Boulder	T. 1 N., R. 71 W., sec. 33, SW 1/4 SE 1/4 NW 1/4, Boulder	Keystone Gulch
Chaffee	Lat 38°48'20" N., long 106°14'47" W., Buena Vista	Middle Cottonwood Creek
Fremont	T. 19 S., R. 71 W., sec. 10, SW 1/4 SW 1/4 SW 1/4, Canyon City	Grape Creek
Boulder	T. 1 N., R. 72 W., sec. 36, SW 1/4 NE 1/4 NW 1/4, Boulder	North Boulder Creek
Gilpin	T. 3 S., R. 72 W., sec. 36, SW 1/4 NE 1/4, Black Hawk	North Clear Creek
Chaffee	T. 11 S., R. 79 W., sec. 31, SW 1/4, Granite gaging station	Arkansas River
Chaffee	T. 14 S., R. 79 W., sec. 21, SE 1/4 SE 1/4, Buena Vista	Cottonwood Creek
Fremont	T. 18 S., R. 70 W., sec. 31, SE 1/4 SE 1/4, SW. gage station, Canyon City	Arkansas River
Gilpin	T. 3 S., R. 73 W., sec. 1, NW 1/4 SW 1/4 NE 1/4, Central City	North Clear Creek
Chaffee	T. 15 S., R. 79 W., sec. 25, NW 1/4 NW 1/4, Mount Princeton Hot Springs	Chalk Creek
Boulder	T. 1 N., R. 71 W., sec. 34, SW 1/4 NE 1/4 SW. gage station, Boulder	Boulder Creek
Chaffee	Lat 36°46'55" N., long 106°16'45" W., Buena Vista	Cottonwood Lake
Saguache	T. 48 N., R. 8 E., sec. 7, NW 1/4 SE 1/4, Villa Grove	Kerber Creek
Boulder	T. 1 N., R. 71 W., sec. 33, SE 1/4 NW 1/4 SE 1/4, Boulder	Bummers Gulch
Chaffee	T. 49 N., R. 9 E., sec. 14, NE 1/4, Salida	Arkansas River
Chaffee	Lat 36°33'10" N., long 106°17'47" W., Garfield	Middle Fork of South Arkansas River
Chaffee	T. 50 N., R. 9 E., sec. 31, NE 1/4, SW. gaging station, Salida	Arkansas River
Boulder	T. 1 N., R. 72 W., sec. 36, SW 1/4 NE 1/4 SW 1/4, Boulder	Middle Boulder Creek
Chaffee	Lat 38°32'58" N., long 106°15'28" W., Garfield	South Arkansas River
Chaffee	T. 49 N., R. 8 E., sec. 16, NE 1/4 NE 1/4, Poncha Springs	Poncha Creek
Park	T. 9 S., R. 77 W., sec. 34, SW 1/4 SW 1/4 NW 1/4, Fairplay	Middle Fork of South Platte River
Chaffee	Lat 36°46'05" N., long 106°18'14" W., Buena Vista	South Cottonwood Creek
Chaffee	T. 12 S., R. 80 W., sec. 12, SE 1/4 SW 1/4 NE 1/4, Granite	Clear Creek
Eagle	T. 2 S., R. 85 W., sec. 15, NE 1/4, Burns	Cabin Creek
Eagle	T. 2 S., R. 84 W., sec. 8, SW 1/4, below Alkali Creek, Burns	Colorado River
Saguache	T. 48 N., R. 5 E., sec. 9, NW 1/4, Sargents	Tomichi Creek
Park	T. 12 S., R. 75 W., sec. 8, NW 1/4 SE 1/4 SE 1/4, Hartsel	South Fork of South Platte River
Gunnison	T. 49 N., R. 2 E., sec. 33, SW 1/4, Gunnison	Cochetopa Creek
Eagle	T. 2 S., R. 84 W., sec. 28, NE 1/4, Burns	Big Alkali Creek
Eagle	T. 4 S., R. 86 W., sec. 4, SW1/4, Sweetwater Station	Sweetwater Creek
Eagle	T. 2 S., R. 83 W., sec. 28, NE 1/4	Colorado River
Eagle	T. 3 S., R. 85 W., sec. 5, NW 1/4, Sylvan Station	Colorado River
Eagle	T. 4 S., R. 86 W., sec. 30, SE 1/4, Dotsero	Deep Creek
Eagle	T. 4 S., R. 86 W., sec. 31, NE 1/4, Dotsero	Colorado River
Gunnison	T. 51 N., R. 1 E., sec. 22, SW. gaging station, Almont	East River
Eagle	T. 4 S., R. 86 W., sec. 3, SW 1/4, Sweetwater Station	Colorado River
Eagle	T. 5 S., R. 86 W., sec. 6, SW. gaging station, Dotsero	Colorado River
Eagle	T. 13 S., R. 68 W., sec. 25, SW 1/4 NW 1/4 SW 1/4, Manitou Springs	Fountain Creek
Gunnison	T. 49 N., R. 1 W., sec. 11, SW 1/4 NE 1/4, SW. gaging station, Gunnison	Tomichi Creek
Eagle	T. 2 S., R. 82 W., sec. 7, SW 1/4, Radium	Colorado River
Gunnison	T. 50 N., R. 1 W., sec. 34, SE 1/4 SE 1/4, SW. gaging station, Gunnison	Gunnison River
Gunnison	T. 49 N., R. 2 E., sec. 13, NE 1/4 NE 1/4 NW 1/4, Parlin	Alder Creek
Gunnison	T. 49 N., R. 3 E., sec. 8, SW 1/4 NE 1/4 NW 1/4, Parlin	Quartz Creek

data for selected surface-water samples

Date sampled	Time (24 hour)	Discharge (cu ft/s)	Gross alpha; U-natural (µg/L)	Gross beta; Sr-90/Y-90 (pCi/L)	Radium-226 planchet (pCi/L	U-natural; direct fluor. (µg/L)
11/24/65	1230	--	--	--	--	< 0.4
11/17/65	1430	--	--	--	--	8.6 ± 0.9
11/24/65	1430	--	--	--	--	2.4 ± 0.4
11/24/65	1330	--	--	--	--	0.6 ± 0.4
11/17/65	630	--	--	--	--	0.4 ± 0.4
11/24/65	1115	0	--	--	--	1 ± 0.4
11/17/65	1100	--	--	--	--	2.4 ± 0.4
11/16/65	1130	--	--	--	--	2.7 ± 0.4
11/24/65	1200	--	--	--	--	0.5 ± 0.4
11/24/65	1500	--	--	--	--	1 ± 0.4
11/17/65	1245	--	--	--	--	1.3 ± 0.4
11/17/65	1030	--	--	--	--	3.3 ± 0.4
11/16/65	1030	--	--	--	--	6.4 ± 0.6
11/24/65	1400	--	--	--	--	< 0.4
11/17/65	930	--	--	--	--	1.9 ± 0.4
11/24/65	1100	--	--	--	--	1.5 ± 0.4
11/17/65	1200	--	--	--	--	0.8 ± 0.4
11/16/65	1545	--	--	--	--	< 0.4
11/24/65	1105	0	--	--	--	8.2 ± 0.8
11/16/65	1330	--	--	--	--	5.4 ± 0.5
11/17/65	745	--	--	--	--	< 0.4
11/16/65	1400	--	--	--	--	8.3 ± 0.8
11/24/65	1205	3	--	--	--	0.6 ± 0.4
11/17/65	700	--	--	--	--	3 ± 0.4
11/16/65	1445	--	--	--	--	0.5 ± 0.4
11/17/65	1530	--	--	--	--	3.5 ± 0.4
11/17/65	1115	--	--	--	--	1.8 ± 0.4
11/17/65	1300	--	--	--	--	0.4 ± 0.4
12/8/65	1600	--	--	--	--	3.9 ± 0.4
12/8/65	1530	--	--	--	--	2.2 ± 0.4
12/9/65	1220	--	--	--	--	1.3 ± 0.4
12/10/65	900	--	--	--	--	4 ± 0.4
12/9/65	1420	--	--	--	--	2.3 ± 0.4
12/8/65	1535	--	--	--	--	4.8 ± 0.5
12/9/65	830	--	--	--	--	0.8 ± 0.4
12/8/65	1230	--	--	--	--	1.1 ± 0.4
12/8/65	1700	--	--	--	--	1.4 ± 0.4
12/9/65	730	--	--	--	--	0.8 ± 0.4
12/9/65	700	--	--	--	--	1.5 ± 0.4
12/9/65	1600	--	--	--	--	0.5 ± 0.4
12/9/65	800	--	--	--	--	1.1 ± 0.4
12/9/65	630	--	--	--	--	1.4 ± 0.4
12/10/65	1000	--	--	--	--	1.2 ± 0.4
12/9/65	1700	--	--	--	--	7.6 ± 0.8
12/8/65	1200	--	--	--	--	1.3 ± 0.4
12/9/65	1630	--	--	--	--	0.8 ± 0.4
12/9/65	1345	--	--	--	--	1.1 ± 0.4
12/9/65	1330	--	--	--	--	1.7 ± 0.4

Table 2.-- *Sample-site data and radiochemical*

County	Location of point of collection	River or stream
COLORADO (cont.)		
Gunnison	T. 51 N., R. 1 E., sec. 22, SW. gaging station, Almont	Taylor River
CONNECTICUT		
Hartford	N. Main tap water, West Hartford	Nepaug and Barkhamsted Reservoirs
New Haven	Sullivan Drug store tap water, New Haven	Lake Gaillard Reservoir
Fairfield	Fire station on Jackman Ave., Bridgeport	Easton Reservoir
Fairfield	Bridgeport hydrologic laboratory tap water	Hemlock Reservoir
New Haven	Whitney filter plant, New Haven	--
DISTRICT OF COLUMBIA		
--	Washington	Potomac River
FLORIDA		
Dixie	U.S. Highway 19, Wilcox	Suwannee River
Jackson	Bridge near Chattahoochee	Apalachicola River
Orange	Bridge near Christmas	St. Johns River
Orange	Bridge near Christmas	St. Johns River
Jackson	Bridge on U.S. Highway 90, Chattahoochee	Apalachicola River
Orange	Christmas	St. Johns River
Orange	Bridge near Christmas	St. Johns River
Duval	Jacksonville, finished water, tap in plant, Main Street Station	--
Jackson	Chattachoochee	Apalachicola River
Gilchrist	Wilcox	Suwannee River
Hillsborough	Tampa water plant, finished water	Hillsborough River
Brevard	T. 27 S., R. 36 E., sec. 9, Melbourne	Lake Washington
Dixie	Bridge on U.S. Highway 19, near Wilcox, above gaging station	Suwannee River
Brevard	T. 21 S., R. 35 E., sec. 35, SW1/4, Titusville	Indian River
Brevard	T. 21 S., R. 37 E., sec. 7	Indian River Lagoon
Brevard	T. 22 S., R. 37 E., sec. 3, SE 1/4, N. side of Orisino Causeway	Banana Creek
Brevard	T. 22 S., R. 37 E., sec. 7, SW 1/4	Banana Creek
GEORGIA		
Wayne	Bridge on U.S. Highway 301 near Jesup, Doctortown gage	Altamaha River
Wayne	U.S. Highway 301 near Jesup, Doctortown gage	Altamaha River
Wayne	1 mi upstream from Doctortown gage, on U.S. Highway 301, Jesup	Altamaha River
IDAHO		
Custer	SW. of Clayton	Slate Creek
Custer	T. 11 N., R. 14 E., sec. 21, SE 1/4, E. of Stanley	Basin Creek
Custer	T. 11 N., R. 15 E., sec. 19, SW 1/4, W. of Clayton on U.S. Highway 93	Spring
Custer	T. 11 N., R. 13 E., sec. 36, NW 1/4, E. of Stanley	Spring
Gooding	T. 4 S., R. 13 E., sec. 29, 10.1 mi N. of Bliss	Hot Sulfur Lake
Boise	T. 5 N., R. 9 E., E. of Boise	Middle Fork of Boise River
Boise	Twin Springs	Twin Springs
Custer	80 mi E. of Cascade	Cold Spring
Clark	Lidy Hot Springs	Lidy Hot Springs
Clark	0.5 mi S. of Blue Dome Store, Clark	Birch Creek
Clark	2.5 mi NW. of Spencer	Spring
Bannock	2.5 mi SE. of Downey	Downata Hot Springs
Franklin	6 mi N. of Mink Creek	Maple Grove Hot Spring
Butte	23 mi NW. of Howe	Little Lost River
Fremont	7 mi NNE. of Warm River	Warm River
Fremont	1.5 mi SW. of Macks Inn	Island Park Reservoir
Custer	12 mi SW. of Chilly	Big Lost River

data for selected surface-water samples

Date sampled	Time (24 hour)	Discharge (cu ft/s)	Gross alpha; U-natural (µg/L)	Gross beta; Sr-90/Y-90 (pCi/L)	Radium-226 planchet (pCi/L	U-natural; direct fluor. (µg/L)
12/9/65	1500	--	--	--	--	0.8 ± 0.4
4/16/62	1215	--	--	14 ± 2	< 0.1	< 0..1
5/14/62	--	--	--	9.4 ± 1.4	< 0.1	0.2 ± 0.1
e. 05/62	--	--	--	14 ± 2	< 0.1	< 0.1
6/1/62	--	--	--	14 ± 2	< 0.1	< 0.1
5/14/62	--	--	--	5.8 ± 0.9	< 0.1	0.2 ± 0.1
8/25/61	--	--	--	4.2 ± 0.6	0.2 ± 0.1	< 0.1
10/12/60	1720	--	1.1 ± 0.8	5 ± 0.8	0.3 ± 0.1	0.3 ± 0.1
10/12/60	1335	--	< 0.3	2.3 ± 0.3	< 0.1	0.1 ± 0.1
10/7/60	1400	--	0.9 ± 0.6	5.2 ± 0.8	0.1 ± 0.1	< 0.1
1/3/61	1225	900	< 2.2	12 ± 2	0.2 ± 0.1	0.2 ± 0.1
2/27/61	1300	--	< 1.2	3.7 ± 0.6	0.2 ± 0.1	0.2 ± 0.1
4/20/61	1225	--	< 2	11 ± 2	0.3 ± 0.1	0.1 ± 0.1
7/12/61	1235	300	--	2 ± 0.3	0.1 ± 0.1	0.7 ± 0.1
8/29/61	--	--	--	4.7 ± 0.7	0.3 ± 0.1	< 0.1
9/22/61	815	--	--	2.8 ± 0.4	< 0.1	0.2 ± 0.1
10/26/61	1530	--	--	2.6 ± 0.4	< 0.1	0.2 ± 0.1
1/12/62	1030	--	--	6.3 ± 0.9	< 0.1	0.4 ± 0.1
2/12/63	--	--	--	94 ± 13	0.2 ± 0.1	< 0.4
1/22/63	1005	6560	--	28 ± 4	0.1 ± 0.1	< 0.4
3/19/63	--	--	--	370 ± 60	0.8 ± 0.2	1.7 ± 0.2
3/19/63	--	--	--	260 ± 40	< 0.1	1 ± 0.1
3/19/63	--	--	--	270 ± 40	1.7 ± 0.3	2.7 ± 0.3
3/19/63	--	--	--	200 ± 30	1.4 ± 0.3	2.4 ± 0.2
10/13/60	1030	--	< 0.3	3.5 ± 0.5	0.1 ± 0.1	< 0.1
1/20/61	915	--	< 0.3	3.5 ± 0.5	< 0.1	< 0.1
4/3/62	1140	94600	--	18 ± 3	< 0.1	0.4 ± 0.1
e. 09/54	--	--	--	< 14	< 0.1	< 0.1
e. 08/54	--	--	--	< 10	0.1	< 0.1
e. 09/54	--	--	--	< 14	< 0.1	< 0.1
e. 09/54	--	--	--	< 11	< 0.1	< 0.1
e. 04/55	--	--	--	< 230	< 0.1	17
e. 07/55	--	--	--	< 7	< 0.1	1.7
e. 07/55	--	--	--	< 8	0.1	0.1
e. 07/56	--	--	--	< 17	--	--
e. 01/57	--	--	--	19	2.5	0.1
e. 05/57	--	--	--	< 8	0.1	1.4
e. 05/57	--	--	--	< 15	< 0.1	0.3
e. 07/57	--	--	--	< 14	12	0.6
e. 07/57	--	--	--	< 94	0.6	< 0.1
e. 07/57	--	--	--	19	0.1	0.3
e. 07/57	--	--	--	< 5	< 0.1	0.1
e. 08/57	--	--	--	< 0.7	< 0.1	0.2
e. 08/57	--	--	--	< 6	0.1	1

Table 2.-- *Sample-site data and radiochemical*

County	Location of point of collection	River or stream
IDAHO (cont.)		
Bingham	3 mi N. of Alridge	Wolverine Creek
Caribou	6.5 mi WNW. of Wayan	Spring
Power	3.5 mi NE. of Michaud	Spring
Bonneville	Near Swan Valley	Spring
Bonneville	Ozone	Spring
Camas	Fairfield	Camas Creek
Elmore	10 mi NE. of Mountain Home	Spring
Cassia	N. of Malta	Irrigation
Cassia	S. and E. of Malta	Irrigation
Butte	N. and E. of Corey	Spring
Blaine	At bridge 3 mi N. of U.S. Highway 26	Fish Creek
Bonneville	14 mi SE. of Iona	Willow Creek
Fremont	5 mi E. and .8 mi S. of Ashton	Fall River
Blaine	At Dam	Little Wood River
Teton	1 mi N. and 3.7 mi W. of Tetonia	Teton River
Blaine	SW. gaging station, Hailey	Big Wood River
Camas	N. of Fairfield	Soldier Creek
Valley	4.5 mi SSW. of Yellow Pine	Hot Spring
Elmore	King Hill	Snake River
Jefferson	3 mi upstream from Heise	Snake River
Jefferson	1.5 mi downstream Palisades Dam	Snake River
Caribou	- -	Mammoth Spring
ILLINOIS		
Winnebago	Rockford	P/C tank at steam plant
Cook	Northwestern University, Chicago	- -
Cook	Northwestern University, Chicago	- -
Cook	Northwestern University, Chicago	- -
Cook	Lake View pumping station, finished water from tap in laboratory	Lake Michigan
Cook	Chicago Avenue pumping station, 811 Michigan Ave., finished water from tap	Lake Michigan
Cook	Chicago, finished water	Lake Michigan
INDIANA		
Allen	Fort Wayne	St. Joseph River
Lake	Tap in Hobart Water Corp. Laboratory, Gary	Lake Michigan
Marion	Tap in Water Company laboratory, Indianapolis	Fall Creek
Marion	Tap in Water Company Laboratory, Indianapolis	White River
Vanderburgh	Tap in municipal laboratory, Evansville	Ohio River
KANSAS		
Riley	N. of Keats	Spring
Shawnee	Topeka	Tap water from filter plant
Wyandotte	Kansas City	Tap at water treatment plant
Crowley	Winfield	Walnut River
Riley	Manhatton, middle casement bridge	Big Blue River
Cherokee	Baxter Springs	Spring River
Butler	Towanda	Whitewater River
Crowley	Arkansas City, 100 ft below gage	Arkansas River
Hamilton	T. 23 S., R. 43 W., sec. 26, NW1/4, 1 mi S. of Coolidge	Arkansas River
Hamilton	T. 23 S., R. 43 W., sec. 26, NW1/4, near Coolidge, at Surface Water gage	Arkansas River
KENTUCKY		
Jefferson	Louisville, tap before district main	Ohio River

data for selected surface-water samples

Date sampled	Time (24 hour)	Discharge (cu ft/s)	Gross alpha; U-natural (µg/L)	Gross beta; Sr-90/Y-90 (pCi/L)	Radium-226 planchet (pCi/L	U-natural; direct fluor. (µg/L)
e. 08/57	--	--	--	< 23	< 0.1	1.5
e. 08/57	--	--	--	< 23	< 0.1	1.5
e. 08/57	--	--	--	< 38	< 0.1	1.4
e. 08/57	--	--	0.3	< 23	< 0.1	1.4
e. 08/57	--	--	--	< 19	< 0.1	2.2
e. 08/57	--	--	0.9	26	0.2	2.6
e. 08/57	--	--	--	< 14	0.1	< 0.1
e. 08/57	--	--	3.1	< 18	0.1	6.2
e. 08/57	--	--	--	< 13	0.1	1.4
e. 08/57	--	--	--	< 8	0.1	0.5
e. 08/57	--	--	--	30	< 0.1	0.6
e. 08/57	--	--	< 4	270	0.1	0.4
e. 08/57	--	--	< 2	28	< 0.1	0.7
e. 08/57	--	--	< 2	38	< 0.1	1.2
e. 08/57	--	--	< 4	140	< 0.1	0.6
e. 08/57	--	--	4.4	< 13	0.1	1.7
e. 09/57	--	--	1.1	< 7	0.2	1
9/9/58	--	--	--	< 9	< 0.1	< 0.1
7/13/59	--	--	2.1 ± 2	7 ± 1.1	0.2 ± 0.1	2.6 ± 0.3
7/14/59	--	--	1.9 ± 1.5	24 ± 4	0.1 ± 0.1	0.4 ± 0.1
7/14/59	--	--	1.5 ± 1.2	28 ± 4	< 0.1	0.3 ± 0.1
9/11/64	--	--	--	--	--	0.6 ± 0.4
8/23/61	--	--	--	7.3 ± 1.1	2.5 ± 0.5	0.6 ± 0.1
e. 01/58	--	--	--	31	--	--
e. 01/58	--	--	--	20	--	--
e. 01/58	--	--	--	< 23	--	--
8/24/61	--	--	--	3.2 ± 0.5	< 0.1	0.1 ± 0.1
8/24/61	--	--	--	8.2 ± 1.2	0.1 ± 0.1	0.1 ± 0.1
8/25/61	--	--	--	2.9 ± 0.4	< 0.1	0.2 ± 0.1
e. 11/61	--	--	--	7.1 ± 0.6	< 0.1	< 0.1
4/4/62	--	--	--	6.2 ± 0.9	< 0.1	0.3 ± 0.1
5/17/62	--	--	--	11 ± 2	< 0.1	1.3 ± 0.1
5/17/62	--	--	--	10 ± 2	0.1 ± 0.1	1.3 ± 0.1
5/16/62	--	--	--	6.7 ± 1	< 0.1	< 0.1
e. 06/54	--	--	--	< 7	0.2	1.5
3/9/62	1100	--	--	21 ± 0.3	< 0.1	< 0.1
3/15/62	--	--	--	26 ± 4	< 0.1	2.4 ± 0.2
5/7/64	--	--	--	17 ± 3	0.2 ± 0.1	1 ± 0.4
5/11/64	1355	--	--	25 ± 4	0.1 ± 0.1	1.4 ± 0.4
5/18/64	710	--	--	12 ± 2	0.3 ± 0.1	0.7 ± 0.4
5/20/64	1420	--	--	46 ± 7	0.7 ± 0.1	2.7 ± 0.4
5/25/64	1600	--	--	27 ± 4	0.2 ± 0.1	1.4 ± 0.4
6/30/64	1810	--	--	24 ± 0.4	0.1 ± 0.1	30 ± 3
8/3/64	--	--	--	--	--	31 ± 3
9/13/61	--	--	--	5.6 ± 0.8	< 0.1	0.4 ± 0.1

Table 2.-- ***Sample-site data and radiochemical***

County	Location of point of collection	River or stream
LOUISIANA		
Washington	Bridge on Louisiana Highway 10, Bogalusa	Pearl River
St. Charles	Ferry, Luling	Mississippi River
Rapides	Alexandria, at bridge	Red River
Washington	Bogalusa, at bridge	Pearl River
St. Charles	Ferry, Luling	Mississippi River
Rapides	Alexandria	Red River
St. Cahrles	Ferry, Luling	Mississippi River
Rapides	Alexandria	Red River
Rapides	Bridge on U.S. Highway 165, Alexandria	Red River
Washington	Bridge on Mississippi Highway 26, Bogalusa	Pearl River
St. Charles	Ferry, Luling	Mississippi River
Caddo	Cross Lake treatment plant, finished water, Shreveport	Cross Lake
Rapides	Alexandria	Red River
Washington	Bridge on Mississippi Highway 26, Bogalusa	Pearl River
West Baton Rouge	Ferry, Baton Rouge	Mississippi River
East Baton Rouge	Lula Street plant, Baton Rouge Water Works, tap water	- -
East Baton Rouge	Lafayette Street plant, Baton Rouge Water Works, finished water	- -
East Baton Rouge	Gout Street plant, finished water, Baton Rouge	- -
East Baton Rouge	Bankston Street plant, finished water, Baton Rouge	- -
MAINE		
Penobscot	West Enfield	Penobscot River
Androscoggin	150 ft below 9W gage, Turner Center	Nezinscot River
Somerset	North Anson	Carrabassett River
Penobscot	West Enfield	Penobscot River
Somerset	North Anson	Carrabassett River
Androscoggin	Turner Center	Nezinscot River
Penobscot	West Enfield	Penobscot River
Androscoggin	Turner Center	Nezinscot River
Somerset	North Anson	Carrabassett River
MARYLAND		
Washington	Bridge on U.S. Highway 522, Hancock	Potomac River
Washington	U.S. Highway 522, Hancock	Potomac River
Washington	Hancock	Potomac River
Baltimore	Montebello Plant, finished water, Baltimore	Gunpowder River
Baltimore	Baltimore	North Branch of Patapsco River
MASSACHUSETTS		
Middlesex	Chlorination station, tap, Weston	Norumbega Reservoir
Worcester	Olean Street chlorination station, tap, Worcester	Holder Reservoir no. 2
Hampden	Tap, Ludlow	Ludlow Reservoir
Hampden	Tap from line going to Provin Mountain Reservoir, Springfield	Cobble Mountain Reservoir
MICHIGAN		
Kent	Grand Rapids	Lake Michigan
Wayne	Detroit, finished water	Detroit River
Genesee	Flint, finished water	Flint River
MINNESOTA		
Anoka	Cableway station 203, Anoka	Mississippi River
Dakota	Hastings	Mississippi River
Stearns	Between U.S. Highway 52 bridge and Minnesota Highway 28 bridge, St. Cloud	Mississippi River
Blue Earth	Gage, Mankato	Minnesota River
Benton	Below power dam, Royalton	Mississippi River

data for selected surface-water samples

Date sampled	Time (24 hour)	Discharge (cu ft/s)	Gross alpha; U-natural (µg/L)	Gross beta; Sr-90/Y-90 (pCi/L)	Radium-226 planchet (pCi/L	U-natural; direct fluor. (µg/L)
10/18/60	--	--	2.2 ± 1.5	16 ± 2	0.2 ± 0.1	< 0.1
10/18/60	1000	--	2.2 ± 1.7	12 ± 2	0.1 ± 0.1	1.3 ± 0.1
10/26/60	--	--	2.4 ± 0.9	13 ± 2	0.2 ± 0.1	0.9 ± 0.1
2/15/61	--	--	2 ± 1.5	3.2 ± 0.5	0.1 ± 0.1	0.4 ± 0.1
2/17/61	--	--	< 9	2.7 ± 0.4	0.1 ± 0.1	0.8 ± 0.1
2/28/61	--	--	9.4 ± 3	2.6 ± 0.4	0.5 ± 0.1	0.6 ± 0.1
10/1-31/60	--	--	< 6.1	15 ± 2	--	0.8 ± 0.1
/11/60-11/14/60	--	--	< 21	8.8 ± 1.3	--	1.9 ± 0.2
6/1/61	--	--	< 11	7.9 ± 1.2	0.2 ± 0.1	1.2 ± 0.1
6/6/61	--	--	< 1.5	2.4 ± 0.4	0.1 ± 0.1	0.6 ± 0.1
7/5/61	--	--	< 6.2	6.3 ± 0.9	0.4 ± 0.1	0.3 ± 0.1
7/27/61	--	--	< 4.2	24 ± 4	0.1 ± 0.1	< 0.1
/02/61-05/06/61	--	--	--	--	--	0.4 ± 0.1
3/9/62	700	--	--	20 ± 3	0.3 ± 0.1	< 0.1
3/6/62	--	--	--	24 ± 4	0.2 ± 0.1	0.2 ± 0.1
3/30/62	--	--	--	1.4 ± 0.2	0.1 ± 0.1	< 0.1
3/30/62	--	--	--	1.3 ± 0.2	0.1 ± 0.1	< 0.1
3/30/62	--	--	--	1.8 ± 0.3	0.1 ± 0.1	< 0.1
4/24/62	--	--	--	1.9 ± 0.3	< 0.1	< 0.1
10/19/60	1420	--	< 0.3	4.4 ± 0.7	0.1 ± 0.1	0.3 ± 0.1
10/18/60	1515	--	< 0.2	3.6 ± 0.6	< 0.1	< 0.1
10/18/60	--	--	0.2 ± 0.2	2.3 ± 0.5	0.1 ± 0.1	< 0.1
4/25/61	--	43900	< 1.3	2.9 ± 0.4	< 0.1	< 0.1
4/18/61	--	2240	< 0.8	2 ± 0.3	< 0.1	< 0.1
4/14/61	--	1300	< 0.7	2.2 ± 0.3	< 0.1	< 0.1
6/21/61	--	--	< 1.6	5.6 ± 0.8	< 0.1	0.1 ± 0.1
6/8/61	--	138	< 1.8	4.5 ± 0.7	< 0.1	0.2 ± 0.1
6/19/61	--	500	< 1.6	2.7 ± 0.2	< 0.1	0.1 ± 0.1
1/9/61	1545		< 0.7	2.2 ± 0.3	< 0.1	0.2 ± 0.1
2/20/61	--	--	4.4 ± 2.6	5.5 ± 0.8	0.4 ± 0.1	0.6 ± 0.1
8/21/61	940	--	--	3.3 ± 0.2	< 0.1	0.1 ± 0.1
8/22/61	--	--	--	2.9 ± 0.4	0.1 ± 0.1	< 0.1
8/22/61	--	--	--	2.9 ± 0.4	0.1 ± 0.1	< 0.1
4/17/62	1430	--	--	24 ± 4	< 0.1	< 0.1
4/17/62	1030	--	--	36 ± 5	< 0.1	< 0.1
4/16/62	1730	--	--	6.5 ± 0.9	< 0.1	< 0.1
4/16/62	1545	--	--	6.6 ± 0.1	< 0.1	< 0.1
8/30/61	--	--	--	8.5 ± 1.3	0.1 ± 0.1	0.2 ± 0.1
9/1/61	--	--	--	2.8 ± 0.4	< 0.1	0.1 ± 0.1
8/31/61	--	--	--	3.1 ± 0.5	< 0.1	< 0.1
10/1/60	1200	--	4.3 ± 2.3	6.9 ± 1	< 0.1	0.4 ± 0.1
10/1/60	1030	--	2.8 ± 2.1	12 ± 2	0.1 ± 0.1	1 ± 0.1
10/2/60	1540	--	< 1.3	7.2 ± 1.1	0.1 ± 0.1	0.2 ± 0.1
5/21/64	1605	--	--	31 ± 5	0.2 ± 0.1	8.6 ± 0.9
5/18/64	1410	--	--	35 ± 5	0.1 ± 0.1	< 0.4

Table 2.-- *Sample-site data and radiochemical*

County	Location of point of collection	River or stream
MINNESOTA (cont.)		
Carlton	Gage, Scanlon	St. Louis River
MISSISSIPPI		
Lamar	10 mi W. of Purvis	Lower Half Moon Creek
Lamar	12 mi W. of Purvis	Little Creek
MISSOURI		
St. Louis	Tap from district main, Rocks plant, St. Louis	Mississippi River
St. Louis	Tap in main district line, Howard Bench pump station, St. Louis	Missouri River
Jackson	Kansas City Water Department, Kansas City	Missouri River
NEBRASKA		
Otoe	Composite sample, Nebraska City	Missouri River
Otoe	Composite sample, Nebraska City	Missouri River
Otoe	Composite sample, Nebraska City	Missouri River
Otoe	Composite sample, Nebraska City	Missouri River
Otoe	Composite sample, Nebraska City	Missouri River
Douglas	Tap from distribution system, Omaha	Missouri River
Dawson	Gage, Overton	Platte River
Otoe	Bridge, Nebraska City	Missouri River
NEVADA		
Nye	N. of Mercury	Roadside puddle
Lyon	T. 16 N., R. 21 E., sec. 1, SW1/4, E. of Dayton, Sutro Tunnel (tunnel portal)	--
Washoe	T. 17 N., R. 20 E., sec. 2, NE1/4, S. of Reno	N. Branch of Bailey Canyon
Esmeralda	15 mi W. of Lida	Pigeon Spring
Nye	6 mi N. of Beatty	Amargosa Hot Spring
Nye	Nevada Test Site, Mercury	White Rock Spring
Nye	2 mi N. of Beatty	Indian Springs
Nye	Pump intake, Barkleys Ranch, Beatty	Indian Spring
Nye	5 mi N. of Beatty	Crystal Spring
Nye	Nevada Test Site, Mercury	Cane Spring
Clark	2 mi W. of Goodsprings, Iron Gold Mine	--
Nye	20 mi E. of Lathrop Wells	Spring
Nye	Beatty Municipal Spring	Town of Beatty
Clark	Cactus Springs Station	Cactus Springs spring
Nye	Nevada Test Site	Mesa Spring
Nye	N. of Mercury	White Rock Spring
Nye	--	Cane Spring
Nye	Nevada Test Site, N. of Mercury	Tippipah Springs
Nye	Nevada Test Site, N. of Mercury	Oak Spring
Nye	Nevada Test Site, N. of Mercury	Indian Spring
Nye	Area 12, Nevada Test Site	White Rock Spring
Clark	T. 16 S., R. 55 1/2 E., sec. 11, NE1/4	Cactus Spring
Nye	Nevada Test Site, N. of Mercury	White Rock Spring
Nye	Nevada Test Site, N. of Mercury	Tippipah Springs
Nye	Tonopah	Butte Spring
--	Devils Hole	Spring
Washoe	T. 19 N., R. 20 E., sec. 12, SW1/4, E. of Sparks	Truckee River
Washoe	T. 19 N., R. 18 E., sec. 13, NE1/4, W. of Reno at Lawson	Truckee River
Nye	Yucca Playa, Nevada Test Site	Rainwater runoff
Nye	Nevada Test Site	Frenchman Lake
Nye	Nevada Test Site	Yucca Lake (playa rainwater)

data for selected surface-water samples

Date sampled	Time (24 hour)	Discharge (cu ft/s)	Gross alpha; U-natural (µg/L)	Gross beta; Sr-90/Y-90 (pCi/L)	Radium-226 planchet (pCi/L	U-natural; direct fluor. (µg/L)
5/19/64	825	--	--	43 ± 6	< 0.1	< 0.4
10/31/61	--	--	< 1	4.2 ± 0.6	0.5 ± 0.1	0.1 ± 0.1
10/31/61	--	--	< 5	6 ± 0.9	< 0.1	0.2 ± 0.1
10/19/61	1030	--	--	11 ± 2	< 0.1	1 ± 0.1
10/15/61	--	--	--	9.9 ± 1.5	0.1 ± 0.1	0.5 ± 0.1
7/26/61	1530	--	< 5.4	9.3 ± 1.4	0.5 ± 0.1	0.2 ± 0.1
10/31/60	1045	--	3.6 ± 2.2	12 ± 2	0.1 ± 0.1	1.8 ± 0.2
5/15/61	1030	--	< 8.8	11 ± 2	0.1 ± 0.1	3.5 ± 0.4
6/27/61	1010	--	< 9.5	10 ± 2	0.1 ± 0.1	3.3 ± 0.3
5/31/61	--	--	--	--	--	5.6 ± 0.6
06/1-30/61	--	--	--	--	--	4.2 ± 0.4
1/23/62	--	--	--	12 ± 2	< 0.1	2.6 ± 0.3
4/15/64	1130	--	--	23 ± 4	0.1 ± 0.1	15 ± 2
5/26/64	915	--	--	32 ± 5	0.7 ± 0.1	< 0.4
10/25/58	--	--	8 ± 6.7	2200	1.2	0.3 ± 0.1
4/16/59	--	--	12 ± 8	8.8 ± 1.3	0.1 ± 0.1	0.4 ± 0.1
4/17/59	--	--	< 22	1500 ± 200	0.3 ± 0.1	0.4 ± 0.1
e. 03/56	--	--	--	< 14	< 0.1	1.5
e. 03/56	--	--	--	< 27	0.6	10
e. 10/57	--	--	4.4	55	< 0.1	1.3
e. 03/56	--	--	--	17	< 0.1	5
e. 10/57	--	--	6.3	< 15	0.2	1.8
e. 03/56	--	--	--	< 17	< 0.1	2.4
e. 10/57	--	--	< 4	< 15	< 0.1	0.5
e. 03/56	--	--	--	< 140	4.9	110
e. 10/57	--	--	< 3	142	0.1	0.2
e. 03/56	--	--	--	< 17	< 0.1	4.5
e. 10/57	--	--	< 3	< 12	< 0.1	1.7
e. 10/57	--	--	7.4	7900	0.3	0.8
3/21/58	--	--	19 ± 3	77	1.3	3
3/24/58	--	--	< 4	< 15	< 0.1	3.7
e. 03/58	--	--	< 2	< 8	0.2	0.7
e. 04/58	--	--	< 2	< 12	< 0.1	0.4
5/1/58	--	--	4.6 ± 3.5	< 14	0.1	5.9
5/19/59	--	--	5 ± 3.1	29 ± 4	0.5 ± 0.1	1 ± 0.1
5/21/59	--	--	7.3 ± 7.2	3.8 ± 0.6	0.1 ± 0.1	1.6 ± 0.2
11/10/60	--	--	2.8 ± 0.9	22 ± 3	< 0.5	2.5 ± 0.2
11/9/60	--	--	3.8 ± 2.2	10 ± 2	0.3 ± 0.1	1.4 ± 0.1
11/10/60	--	--	< 1.5	6.1 ± 0.9	< 0.1	0.3 ± 0.1
6/29/61	--	--	< 12	11 ± 2	0.8 ± 0.2	2.7 ± 0.3
4/17/59	--	--	< 1.1	17 ± 3	< 0.1	0.7 ± 0.1
4/17/59	--	--	0.7 ± 0.3	9.2 ± 1.4	0.1 ± 0.1	0.2 ± 0.1
12/12/61	--	--	< 22	32 ± 5	< 0.1	0.2 ± 0.2
12/11/61	--	--	< 4.2	59 ± 9	< 0.1	0.5 ± 0.1
12/11/61	--	--	< 5.8	63 ± 9	< 0.5	1 ± 0.1

Table 2.-- ***Sample-site data and radiochemical***

County	Location of point of collection	River or stream
NEVADA (cont.)		
Lincoln	5.5 mi S. of Alamo	Upper Pharanagat Lake
Lincon	5.5 mi S. of Alamo	Upper Pharanagat Lake
Nye	T. 8 N., R. 57 W., 4 mi S. of U.S. Highway 6, Railroad Valley	Lake
White Pine	T. 16 N., R. 62 W., sec. 10, NW1/4, Kennecott Copper Company, Ruth	Waste pond
Nye	Nevada Test Site	Yucca Lake
Nye	1 mi W. of Well no. 5B, 2 mi E. of well no. 5A, Nevada Test Site	Frenchman Lake
Nye	5 mi E. of Well no. 5A, Nevada Test Site	Frenchman Lake
Nye	Forty Mile Canyon, just S. of Buckboard Mesa sta. 2	Streambed
Nye	Forty Mile Canyon, 9 mi N. of Well no J-12 sta. 2	Streambed
NEW JERSEY		
Mercer	Free bridge between Port Trenton and Morrisville, Pennsylvania	Delaware River
Hudson	Tap, Jersey City	Rockaway River (Boonton Reservoir)
Mercer	Bridge between Trenton and Morrisville, Pennsylvania	Delaware River
Mercer	Trenton	Delaware River
Essex	Tap, Newark	Pequannock System (5 interconnecting reservoirs)
Passaic	Passaic Valley Water Commission, tap, Paterson	Passaic-Wanaque System
Passaic	Wanaque Res, Passaic Valley Water Commission, tap, Paterson and Newark	Wanaque Reservoir
NEW YORK		
Saratoga	Mechanicville	Hudson River
Monroe	Rochester Gas and Electric Station no. 5, gage, Rochester	Genesee River
Saratoga	Mechanicville	Hudson River
- -	Fuera Bush, finished water	Alcove Reservoir
Erie	Buffalo, finished water	Lake Erie
Saratoga	Bridge between Mechanicville and Hemp Street Park	Hudson River
Monroe	Rochester Gas and Electric Station no. 5, gage, Rochester	Genesee River
Monroe	U.S.G.S. Gage Rochester Gas and Electric Station no. 5 gage, Rochester	Genessee River
Westchester	Tap in Pumping Station, Yonkers	Grassy Sprain Reservoir supply
Westchester	Tuckahoe Road and Mountaindale Road, Pumping Stations, Yonkers	Catskill supply
Westchester	Tap in Saw Mill Pumping Station, Yonkers	Saw Mill Reservoir supply
Westchester	Tap in Mobile gas station, Yonkers	Trap Falls Reservoir supply
Bronx	Tap in gate house of shaft no. 2 on City Tunnel no. 1, Bronx	Delaware and Catskill supply
Bronx	Tap in gate house no. 5, Jerome Park, Bronx	Crotona supply
Cattaraugus	Western New York Nuclear Service Center, Fox Valley Road	Buttermilk Creek
Cattaraugus	Western New York Nuclear Service Center, gaging station	Buttermilk Creek
Monroe	Cobbs Hill gate house tap, Rochester	Hemlock Lake
Monroe	Tap in laboratory on Dewey Avenue, Rochester	Lake Ontario Supply
Onondaga	Tap in City Hall basement, Syracuse	Skaneateles Lake
Cattaraugus	Western New York Nuclear Service Center, Fox Valley Road	Buttermilk Creek
Cattaraugus	Western New York Nuclear Service Center, gaging station	Buttermilk Creek
Cattaraugus	Western New York Nuclear Service Center, gage at bridge	Buttermilk Creek
Cattaraugus	Western New York Nuclear Service Center, gage at bridge	Buttermilk Creek
Cattaraugus	200 ft downstream from gaging station, near Riceville	Buttermilk Creek
Cattaraugus	Gage at bridge, Riceville	Buttermilk Creek
NORTH CAROLINA		
Edgecombe	Bridge on U.S. Highway 64, Tarboro, at gage	Tar River
Lenoir	On U.S. Highway 258, Kinston	Neuse River
Bladen	Lock no. 3, Tar Heel	Cape Fear River
Edgecombe	Bridge on U.S. Highway 64, Tarboro	Tar River
Lenoir	Kinston	Neuse River
Bladen	Lock no. 3, Tar Heel	Cape Fear River

data for selected surface-water samples

Date sampled	Time (24 hour)	Discharge (cu ft/s)	Gross alpha; U-natural (µg/L)	Gross beta; Sr-90/Y-90 (pCi/L)	Radium-226 planchet (pCi/L	U-natural; direct fluor. (µg/L)
7/2/62	1200	--	--	58 ± 9	< 0.1	14 ± 1
7/9/62	--	--	--	96 ± 14	< 0.1	11 ± 1
6/9/62	--	--	--	16000 ± 2000	< 0.5	7.6 ± 0.8
6/9/62	--	--	--	270 ± 40	1.5 ± 0.3	19 ± 2
9/27/62	--	--	< 1	110 ± 20	0.1 ± 0.1	< 0.4
9/27/62	--	--	< 4.8	100 ± 15	0.2 ± 0.1	< 0.1
9/26/62	--	--	< 27	250 ± 40	0.5 ± 0.1	0.2 ± 0.2
10/4/62	1030	--	5.3 ± 5.3	98 ± 15	--	1.3 ± 0.4
10/4/62	1345	--	< 4.5	230 ± 30	--	0.6 ± 0.4
3/24/61	--	--	< 2.5	3.6 ± 0.5	0.1 ± 0.1	< 0.1
4/3/62	1100	--	--	17 ± 2	< 0.1	0.1 ± 0.1
4/11/62	1450	--	--	14 ± 2	< 0.1	< 0.1
5/7/62	1320	--	--	7.5 ± 1.1	< 0.1	< 0.1
3/30/62	1030	--	--	16 ± 2	< 0.1	0.1 ± 0.1
4/3/62	--	--	--	11 ± 2	< 0.1	< 0.1
8/22/62	1535	--	--	14 ± 2	0.1 ± 0.1	0.2 ± 0.2
4/26/61	730	--	< 1.7	2.6 ± 0.4	0.1 ± 0.1	0.2 ± 0.1
5/3/61	1300	--	< 5.3	5.4 ± 0.8	0.3 ± 0.1	0.3 ± 0.1
8/17/61	1630	--	--	2.3 ± 0.4	< 0.1	< 0.1
8/17/62	--	--	--	4.5 ± 0.7	0.1 ± 0.1	< 0.1
8/22/61	--	--	--	5.1 ± 0.8	< 0.1	0.2 ± 0.1
5/23/61	1630	--	< 2	2.5 ± 0.4	< 0.1	0.2 ± 0.1
5/25/61	830	--	--	4.2 ± 0.6	0.3 ± 0.1	0.2 ± 0.1
7/26/61	1430	--	--	6.7 ± 1	--	0.1 ± 0.1
5/15/62	--	--	--	13 ± 2	< 0.1	0.1 ± 0.1
5/15/62	--	--	--	7.5 ± 1.1	< 0.1	0.1 ± 0.1
5/15/62	--	--	--	10 ± 2	0.2 ± 0.1	0.3 ± 0.1
5/15/62	--	--	--	22 ± 3	< 0.1	0.1 ± 0.1
5/16/62	--	--	--	9.5 ± 1.4	< 0.1	0.2 ± 0.1
e. 05/62	--	--	--	14 ± 2	< 0.1	0.2 ± 0.1
5/18/62	--	--	--	9.6 ± 1.4	< 0.1	0.1 ± 0.1
5/18/62	--	--	--	6.6 ± 1	< 0.1	0.2 ± 0.1
5/23/62	1320	--	--	7.9 ± 0.2	< 0.1	< 0.1
5/23/62	1130	--	--	6.1 ± 0.9	< 0.1	< 0.1
5/22/62	1500	--	--	7.3 ± 1	0.3 ± 0.1	< 0.1
7/27/62	1440	--	--	--	< 0.1	--
7/27/62	830	--	--	--	< 0.1	--
10/8/62	1510	--	--	--	< 0.1	--
10/8/62	1510	--	--	5.5 ± 0.8	0.1 ± 0.1	0.5 ± 0.4
2/4/63	1335	--	--	6.8 ± 1	0.2 ± 0.2	0.5 ± 0.4
5/7/63	1555	--	--	8.7 ± 1.3	< 0.2	< 0.4
3/4/62	1505	--	--	21 ± 3	0.1 ± 0.1	0.1 ± 0.1
3/3/62	1120	--	--	23 ± 3	0.2 ± 0.1	< 0.1
3/4/62	1245	--	--	18 ± 3	0.1 ± 0.1	< 0.1
5/19/62	--	--	--	12 ± 2	< 0.1	< 0.1
7/3/62	1140	--	--	29 ± 4	0.1 ± 0.1	< 0.1
11/13/62	1330	--	--	26 ± 4	0.2 ± 0.1	0.4 ± 0.4

County	Location of point of collection	River or stream
NORTH CAROLINA (cont.)		
Davidson	Yadkin College, at gage	Yadkin River
Davidson	Yadkin College, at U.S. Highway 64, at gage	Yadkin River
Lenoir	On U.S. Highway 258, Kinston, at gage	Neuse River
Bladen	Lock no 3, Tar Heel	Cape Fear River
Edgecombe	Bridge on U.S. Highway 64, Tarboro	Tar River
Davidson	Yadkin College	Yadkin River
Mecklenburg	Finished water, Charlotte	Catawba River
Guilford	Greensboro Treatment Plant	--
NORTH DAKOTA		
Kidder	Crystal Springs	Spring
Ramsey	Mission Bay, Devils Lake	Devils Lake
Ramsey	Devils Lake	Devils Lake
Ramsey	Devils Lake	Devils Lake
Ramsey	Creel Bay, Devils Lake	Devils Lake
Grand Forks	N. of Grand Forks	Red River
Grand Forks	Midstream, Grand Forks	Red River
Grand Forks	Below cable, midstream, Grand Forks	Red River
Grand Forks	Grand Forks, composite sample	Red River
Grand Forks	Grand Forks, composite sample	Red River
Pembina	Walhalla, midstream	Pembina River
Grand Forks	Grand Forks, left bank	Red River
Williams	Williston, gage at bridge	Missouri River
OHIO		
Summit	Tap in laboratory, Akron	Cuyahoga River
Cuyahoga	Tap in laboratory, Cleveland	Lake Erie
Mahoning	Tap in laboratory, Youngstown	Meander Creek
Hamilton	Tap in laboratory, Cincinnati	Ohio River
Franklin	Effluent pipe in basement of Morse Road plant, Columbus	Big Walnut Creek
Franklin	Tap in laboratory at Dublin Road plant, Columbus	Scioto River
Lucas	Tap in laboratory, Toledo	Lake Erie
OKLAHOMA		
Oklahoma	Oklahoma City	Lake Hefner
OREGON		
Morrow	Heppner	Willow Creek
Umatilla	8 mi E. of Pilot Rock	McKay Creek
Umatilla	1 mi W. of Gibbon	Umatilla River
Morrow	NE. Heppner	S. Fork of Butler Creek
Umatilla	4 mi NW. of Venison	N. Fork of Butler Creek
Klamath	Bridge at Beatty narrows	Sprague River
Malheur	N. of McDermitt, Nevada	Spring
Wasco	Mill Creek	N. Fork of Mill Creek
Klamath	2 mi W. of Beaver Marsh on U.S. Highway 97	Runoff from Cascade upland
Umatilla	Upstream from Milton-Freewater	Walla Walla River
Klamath	Big Springs at Leny Ranch	Big Springs
Klamath	8 mi E. of Chiloquin	Spring
Klamath	Spring Creek at Collier State Park	Spring
Harney	4 mi S. of White Horse Ranch, Andrews	Davidson Dam
Wasco	E. Fish Ladder, The Dalles	Columbia River
Klamath	Klamath	Kalmath River

data for selected surface-water samples

Date sampled	Time (24 hour)	Discharge (cu ft/s)	Gross alpha; U-natural (µg/L)	Gross beta; Sr-90/Y-90 (pCi/L)	Radium-226 planchet (pCi/L	U-natural; direct fluor. (µg/L)
3/7/63	--	--	--	33 ± 5	0.6 ± 0.1	0.7 ± 0.4
12/15/60	1105	--	0.8 ± 0.6	7.9 ± 1.2	0.1 ± 0.1	0.2 ± 0.1
12/1/60	1000	--	2.2 ± 1.2	9.6 ± 1.4	0.1 ± 0.1	0.4 ± 0.1
12/1/60	905	--	< 0.3	3.6 ± 0.5	< 0.1	0.2 ± 0.1
4/19/61	1540	--	< 1.6	3.3 ± 0.5	< 0.2	< 0.1
6/22/61	1540	--	4.9 ± 0.3	6.9 ± 1	0.6 ± 0.1	0.3 ± 0.1
8/15/61	--	--	< 1.5	3 ± 0.4	< 0.1	< 0.1
1/16/62	--	--	--	12 ± 2	0.3 ± 0.1	< 0.1
6/24/58	--	--	--	37	0.2	5.7 ± 0.6
10/20/59	1515	--	< 61	460 ± 70	--	--
10/4/59	1235	--	100 ± 70	340 ± 50	--	--
10/4/59	1405	--	< 42	320 ± 50	--	--
10/1/59	--	--	< 44	280 ± 40	--	--
10/24/60	--	--	< 3.3	14 ± 2	< 0.1	0.7 ± 0.1
4/17/61	1000	--	< 12	10 ± 2	0.1 ± 0.1	1.4 ± 0.1
7/8/61	1730	--	< 12	11 ± 2	0.4 ± 0.1	1.1 ± 0.1
07/01-31/61	--	--	--	--	--	2 ± 0.2
04/07-22/61	--	--	--	--	--	2.5 ± 0.2
4/15/64	820	--	--	29 ± 4	0.8 ± 0.2	1.8 ± 0.4
4/15/64	1215	--	--	53 ± 8	0.4 ± 0.1	1.3 ± 0.4
4/9/64	1830	--	--	18 ± 3	0.3 ± 0.1	2 ± 0.4
5/12/62	--	--	--	8.6 ± 0.4	< 0.1	0.1 ± 0.1
5/2/62	--	--	--	10 ± 2	< 0.1	0.3 ± 0.1
5/3/62	--	--	--	12 ± 2	< 0.1	< 0.1
5/15/62	--	--	--	5.3 ± 0.8	< 0.1	< 0.1
5/29/62	--	--	--	9.1 ± 1.4	0.1 ± 0.1	< 0.1
5/29/62	--	--	--	11 ± 2	0.1 ± 0.1	< 0.1
4/6/62	--	--	--	12	0.1 ± 0.1	0.1 ± 0.1
7/28/61	--	--	< 10	12 ± 2	< 0.1	0.3 ± 0.1
6/16/58	--	--	< 4	< 9	< 0.1	0.6 ± 0.1
6/18/58	--	--	< 1.3	7.5	< 0.1	0.1 ± 0.1
6/17/58	--	--	< 0.9	< 5	0.1	< 0.1
6/16/58	--	--	--	< 10	< 0.1	1.2 ± 0.1
6/16/58	--	--	--	< 8	0.1	0.5 ± 0.1
8/6/58	--	--	--	< 4	< 0.1	0.1 ± 0.1
8/6/58	--	--	--	< 10	< 0.1	0.7 ± 0.1
7/31/58	--	--	--	6.8	< 0.1	< 0.1
8/7/58	--	--	--	6.1	< 0.1	0.1 ± 0.1
8/1/58	--	--	--	< 5	< 0.1	0.1 ± 0.1
8/7/58	--	--	--	< 5	0.2	< 0.1
8/6/58	--	--	--	< 5	< 0.1	< 0.1
8/7/58	--	--	--	< 5	< 0.1	0.1 ± 0.1
9/25/58	--	--	< 1.7	14 ± 1.3	0.1 ± 0.1	0.3 ± 0.1
9/30/60	--	--	1.1 ± 0.8	17 ± 3	0.1 ± 0.1	1.4 ± 0.1
e. 01/61	--	--	< 0.8	4 ± 0.6	0.1 ± 0.1	0.1 ± 0.1

County	Location of point of collection	River or stream
OREGON (cont.)		
Wasco	The Dalles, composite sample	Columbia River
Wasco	The Dalles, composite sample	Columbia River
Wasco	The Dalles, composite sample	Columbia River
Wasco	Fish Ladder at the Dalles Dam, The Dalles	Columbia River
Klamath	Klamath Falls	Klamath River
Wasco	Fish Ladder at The Dalles Dam, The Dalles	Columbia River
Wasco	The Dalles, composite sample	Columbia River
Wasco	The Dalles, composite sample	Columbia River
Clackamas	Bull Run Headworks, Clackamas	Bull Run River
PENNSYLVANIA		
Bucks	Morrisville	Delaware River
Dauphin	Harrisburg	Susquehanna River
Dauphin	Harrisburg	Susquehanna River
Dauphin	Harrisburg	Susquehanna River
Philadelphia	Towesdale filter plant, tap from laboratory, Philadelphia	Delaware River
Allegheny	Pittsburgh water plant, Pittsburgh	Allegheny River
Philadelphia	Belmont filter plant, tap, Philadelphia	Schuylkill River
Erie	Chestnut Street plant, Erie	Lake Erie, finished water
Allegheny	South Pittsburgh Water Company, Pittsburgh	Monongahela River, finished water
Allegheny	South Pittsburgh Water Company, Pittsburgh	Monongahela River
RHODE ISLAND		
Providence	Tap in garage on Phoenix Avenue, Cranston	Scituate Reservoir
SOUTH CAROLINA		
Fairfield	Richtex, gaging station	Broad River
Fall River	Hot Springs	Springs
Fall River	4 mi WSW. from spring, Hot Springs	- -
Fall River	2 mi NNE> from spring, Hot Springs	- -
Fall River	0.5 mi W. of spring, Cascade Springs	- -
Fall River	1 mi W. of Hot Springs	- -
Hughes	Pierre gaging station	Missouri River
Beddle	Huron gaging station	James River
TENNESSEE		
Hancock	41.5 ml above U.S. Geological Survey gage at Arthur, 0.5 mi. above McDowell Shoal	Powell River
Davidson	Nashville	Cumberland River
Hamilton	Chattanooga, tap in water laboratory	Tennessee River
Anderson	Oak Ridge	Spring tributary to Scarborough Creek
Anderson	Oak Ridge	Spring tributary to E. Fork of Poplar Creek
Anderson	Oak Ridge	Spring near head of White Oak Creek
Anderson and Roan	Oak Ridge, county line	Spring tributary to Bear Creek
Anderson	Dossett	Bacon Springs
Roane	Oak Ridge, quarry	Spring tributary to Poplar Creek
Roane	Oak Ridge	Crystal Spring
Roane	Oak Ridge, 100 ft below spring ORNL	Spring above Building 1000
Anderson	Oak Ridge	Spring at City swimming pool
TEXAS		
Victoria	Victoria	Guadalupe River
Dallas	Costa View Pump Station, Dallas	Lavon Lake
Tarrant	North Topin Treatment Plant, Fort Worth, treated	Lake Worth
Dallas	Dallas, treated	Garza and Little Elm Reservoir
Dallas	Bachman Plant, Dallas, treated	Grapevine, Garza and Little Elm Res.

Date sampled	Time (24 hour)	Discharge (cu ft/s)	Gross alpha; U-natural (µg/L)	Gross beta; Sr-90/Y-90 (pCi/L)	Radium-226 planchet (pCi/L	U-natural; direct fluor. (µg/L)
10/01-15/60	--	--	0.8 ± 0.5	7.7 ± 1.2	< 0.1	1.1 ± 0.1
09/01-30/60	--	--	1.3 ± 0.7	7.1 ± 1.1	0.1 ± 0.1	1 ± 0.1
04/01-30/61	--	--	--	--	--	0.6 ± 0.1
3/31/61	810	--	< 3.4	14 ± 2	< 0.1	0.8 ± 0.1
5/9/61	1205	--	< 2.4	1.8 ± 0.3	< 0.1	0.2 ± 0.1
6/1/61	1030	--	< 2.3	7.3 ± 1.1	< 0.2	0.5 ± 0.1
05/01-19/61	--	--	--	--	--	0.1 ± 0.1
05/01-31/61	--	--	--	--	--	0.2 ± 0.1
1/8/62	930	--	< 0.3	18 ± 3	0.2 ± 0.1	0.2 ± 0.1
10/11/60	1230	--	0.4 ± 0.4	2.8 ± 0.4	0.5 ± 0.1	0.1 ± 0.1
3/16/61	1345	62100	< 3.1	2.5 ± 0.4	< 0.1	< 0.1
6/2/61	1100	21700	< 3.9	5.6 ± 0.8	< 0.2	0.2 ± 0.1
7/19/61	--	--		5 ± 0.8	0.4 ± 0.1	0.6 0.1
3/16/62	1030	--	--	13 ± 2	< 0.1	< 0.1
3/26/62	1630	--	--	7.7 ± 1.2	< 0.1	< 0.1
3/19/62	1500	--	--	9.6 ± 1.5	< 0.1	< 0.1
3/27/62	1300	--	--	8.8 ± 1.3	< 0.1	0.3 ± 0.1
3/26/62	1400	--	--	130 ± 20	< 0.1	< 0.1
3/11/63	900	--	--	15 ± 2	< 0	< 0.4
4/18/62	1230	--	--	6.4 ± 1	< 0.1	< 0.1
11/25/58	--	--	--	< 12	0.2 ± 0.1	0.1 ± 0.1
e. 11/57	--	--	19	< 50	0.4	7.5
e. 11/57	--	--	11.8	< 19	0.2	10
e. 11/57	--	--	52	< 76	< 0.1	6.3
e. 11/57	--	--	40	< 76	0.9	5.7
12/17/58	--	--	18 ± 14	20 ± 3.5	0.3 ± 0.1	4.4 ± 0.4
4/8/64	730	--	--	17 + 3	< 0.1	4.4 ± 0.4
5/22/64	1600	--	--	53 ± 8	0.1 ± 0.1	1.2 ± 0.4
3/20/59	--	--	--	8.5	--	--
9/13/61	--	--	--	2.3 ± 0.4	< 0.1	< 0.1
9/14/61	--	--	--	6.5 ± 1	< 0.1	0.5 ± 0.1
5/21/62	--	--	--	2.9 ± 0.4	0.1 ± 0.1	0.2 ± 0.1
5/21/62	--	--	--	3.5 ± 0.5	< 0.1	0.2 ± 0.1
5/23/62	--	332	--	2.2 ± 0.3	< 0.1	2 ± 0.1
5/22/62	--	--	--	8.6 ± 1.3	0.1 ± 0.1	17 ± 2
5/22/62	--	--	--	1.6 ± 0.2	< 0.1	0.2 ± 0.1
5/22/62	--	--	--	7.7 ± 1.2	< 0.1	0.4 ± 0.1
5/21/62	--	--	--	1.7 ± 0.2	< 0.1	0.2 ± 0.1
5/23/62	--	236	--	2.6 ± 0.4	0.1 ± 0.1	0.2 ± 0.1
5/22/62	--	--	--	3.1 ± 0.4	0.1 ± 0.1	0.2 ± 0.1
4/4/61	1330	--	< 12	5 ± 0.8	0.3 ± 0.1	0.8 ± 0.1
2/26/62	--	--	--	10 ± 2	< 0.1	0.3 ± 0.1
2/27/62	--	--	--	21 ± 3	0.4 ± 0.1	1.4 ± 0.1
3/22/62	--	--	--	11 ± 2	0.1 ± 0.1	0.2 ± 0.1
e. 05/62	--	--	--	12 ± 2	< 0.1	0.2 ± 0.1

Table 2.-- ***Sample-site data and radiochemical***

County	Location of point of collection	River or stream
TEXAS (cont.)		
Austin	Tap at Filter Plant no. 2	Tap, treated water
Tarrant	Fort Worth	River
Victoria	Victoria	Guadalupe River
--	Ruliff	Sabine River
Liberty	Romayor	Trinity River
Jasper	Evadale	Neches River
Fort Bend	Richmond	Brazos River
Liberty	Romayor	Trinity River
Jasper	Evadale	Neches River
Fort Bend	Richmond	Brazos River
--	Ruliff	Sabine River
Fort Bend	Richmond	Brazos River
Jasper	Evadale	Neches River
Liberty	Romayro	Trinity River
--	Ruliff	Sabine River
Harris	Houston	San Jacinto River
Liberty	Romayor	Trinity River
Fort Bend	Richmond	Brazos Rier
Victoria	Victoria	Guadalupe River
El Paso	El Paso Water Treatment Plant, treated water	Rio Grande River
Travis	Filter Plant no. 1, Austin	Colorado River
Stonewall	Dove Creek Salt Flats	Spring
Box Elder	6.8 mi WNW. of Corinne	Spring
Wayne	3 mi W. of Loa	Spring
Duchesne	Tabiona	Spring
Duchesne	Kamas	Mirror Lake
Weber	3 mi NW. of North Ogden	Spring (developed by well)
Grand	Dewey Bridge, Cisco	Colorado River
--	2 mi SW. of Hooper	E. Spring
Box Elder	4.5 mi SE. of Willard	Spring
San Juan	Mouth of San Juan River	San Juan River
Weber	Plain City	Weber River
Salt Lake	Salt Lake City	Jordan River
Box Elder	Promontory Point	Great Salt Lake
Box Elder	Brigham City	Bear River
Salt Lake	Mt. Dell Reservoir, Parleys Canyon, E. of Salt Lake City	Parleys Creek
Salt Lake	Big Cottonwood Canyon, SE. of Sale Lake City	Big Cottonwood Creek
Salt Lake	Salt Lake City, bridge on Twenty-first Street	Jordan River
Salt Lake	Kennicott drain, Salt Lake City	--
San Juan	T. 42 S., R. 19 E., bridge at Mexican Hat	San Juan River
Uintah	T. 10 S., R. 24 E., sec. 2, Watson	White River
Uintah	Randle gage	Duchesne River
Uintah	Ouray gage	Green River
Uintah	Cableway at Watson	White River
Sanpete	Bridge S. of Fayette	Sevier River
Millard	Bridge in Deseret	Sevier River
Sanpete	U.S. Highway 89 bridge N. of Fairview	San Pitch River
Piute	Gage below Piute Dam, Marysvale	Sevier River
Beaver	Beaver gage	Beaver River
Salt Lake	Bridge on Cudahy Lane, N. Salt Lake City	Jordan River
Uintah	T. 10 S., R. 24 E., sec. 2, Watson gaging station	White River

data for selected surface-water samples

Date sampled	Time (24 hour)	Discharge (cu ft/s)	Gross alpha; U-natural (µg/L)	Gross beta; Sr-90/Y-90 (pCi/L)	Radium-226 planchet (pCi/L	U-natural; direct fluor. (µg/L)
6/28/62	--	--	--	6.8 ± 1	< 0.1	< 0.1
e. 01/55	--	--	--	< 11	0.2	--
10/27/60	--	--	2.1 ± 1.5	6.9 ± 1	0.3 ± 0.1	0.2 ± 0.1
1/12/61	1130	--	1.1 ± 0.6	4.6 ± 0.7	0.1 ± 0.1	0.2 ± 0.1
1/11/61	1620	--	1.4 ± 0.8	6.2 ± 0.9	0.2 ± 0.1	0.5 ± 0.1
1/12/61	1000	--	0.5 ± 0.4	4.3 ± 0.6	0.1 ± 0.1	0.2 ± 0.1
1/11/61	--	--	< 7.4	8.9 ± 1.3	0.9 ± 0.2	< 0.1
4/5/61	1100	--	< 7.1	8.7 ± 1.3	0.3 ± 0.1	0.2 ± 0.1
4/16/61	1010	--	< 8.4	8.5 ± 1.3	0.1 ± 0.1	< 0.1
4/4/61	1645	--	< 19	9.4 ± 1.4	0.5 ± 0.1	0.3 ± 0.1
01/01-31/61	--	--	--	--	--	< 0.1
e. 01/61	--	--	--	--	--	1.2 ± 0.1
01/01-31/61	--	--	--	--	--	0.2 ± 0.1
01/01-31/61	--	--	--	--	--	0.3 ± 0.1
5/10/61	--	--	< 4.1	4 ± 0.6	0.2 ± 0.1	0.2 ± 0.1
7/24/61	--	--	< 2.9	4.6 ± 0.6	< 0.1	0.1 ± 0.1
3/29/62	1700	--	--	24 ± 4	0.1 ± 0.1	0.5 ± 0.1
3/30/62	1030	--	--	32 ± 5	0.2 ± 0.1	1.2 ± 0.1
3/30/62	1330	--	--	17 ± 3	0.1 ± 0.1	0.8 ± 0.1
4/24/62	--	--	--	24 ± 4	< 0.1	2.3 ± 0.2
6/28/62	--	--	--	7.2 ± 1	< 0.1	< 0.1
1/14/64	--	--	--	< 590	8.3 ± 1.7	< 0.4
e. 06/54	--	--	--	850	14	2.3
e. 11/54	--	--	--	< 7	< 0.1	1.5
e. 11/54	--	--	--	< 14	0.1	0.9
e. 11/54	--	--	--	< 5	0.1	< 0.1
e. 07/57	--	--	--	22	0.4	0.9
e. 07/57	--	--	6.7	< 25	5.5	2.8
e. 07/57	--	--	30.7	< 700	10	0.4
e. 07/57	--	--	--	< 15	0.1	0.2
4/21/59	--	--	76 ± 42	89 ± 13	2.5 ± 0.5	87 ± 9
11/8/61	1845	--	--	26 ± 4	< 0.1	0.7 ± 0.1
12/2/61	1600	--	--	94 ± 14	2.6 ± 0.5	4.3 ± 0.4
11/8/61	1115	--	--	6200 ± 900	0.5 ± 0.1	10 ± 1
11/8/61	--	--	--	66 ± 10	0.6 ± 0.1	0.5 ± 0.1
11/27/61	1130	--	--	21 ± 3	< 0.1	0.5 ± 0.1
12/27/61	1030	--	--	6.9 ± 1	0.1 ± 0.1	0.5 ± 0.1
7/19/62	1400	--	--	47 ± 7	0.3 ± 0.1	9.5 ± 1
11/3/61	1130	--	--	94 ± 14	0.6 ± 0.1	4.1 ± 0.4
11/2/63	--	--	--	16 ± 2	< 0.1	5.2 ± 0.5
1/13/64	1600	--	--	23 ± 3	0.2 ± 0.1	1.6 ± 0.4
1/20/64	1415	--	--	12 ± 0.2	< 0.1	10 ± 1
1/20/64	500	--	--	14 ± 2	0.1 ± 0.1	4.6 ± 0.5
1/22/64	1600	--	--	11 ± 2	< 0.1	1.6 ± 0.4
3/10/64	1525	--	--	19 ± 3	< 0.1	7.6 ± 0.8
3/12/64	1230	--	--	33 ± 5	0.1 ± 0.1	9.5 ± 1
3/8/64	1800	--	--	5.9 ± 0.8	0.2 ± 0.1	1.6 ± 0.4
3/9/64	1200	--	--	5.7 ± 0.8	0.1 ± 0.1	3 ± 0.4
3/12/64	830	--	--	0.7 ± 0.4	0.1 ± 0.1	0.7 ± 0.4
3/20/64	1320	--	--	32 ± 5	0.4 ± 0.1	29 ± 3
5/7/64	1030	--	--	19 ± 3	0.2 ± 0.1	0.7 ± 0.4

Table 2.-- ***Sample-site data and radiochemical***

County	Location of point of collection	River or stream
VIRGINIA		
Fauquier	4 mi W. of Hume	Surface spring no. 1
Fauquier	4 mi W. of Hume	Surface spring no. 2
Scott	5.5 mi upstream from U.S. Geological Survey gage, Speers Ferry, Clinchport	Clinch River
Scott	2.25 mi downstream from U.S. Geological Survey gage, Speers Ferry	Clinch River
Scott	Bridge at U.S. Geological Survey gage station, Gate City	Copper Creek
Fauquier	4 mi W. of Hume	Surface spring no. 3
Carroll	1 mi E. of junction with Virginia Highway 94 and County Highway 758	Spring
Grayson	Fries, at dam	New River
Fauquier	Gage at Remington	Rappahannock River
Halifax	Gage at Paces	Dan River
Charlotte	Gage near Randolph	Roanoke (Staunton) River
Fauquier	Gage at Remington, bridge on U.S. Highway 29	Rappahannock River
Halifax	Bridge at Paces	Dan River
Charlotte	Bridge at Randolph	Roanoke (Staunton) River
Halifax	Paces	Dan River
Charlotte	Randolph	Roanoke (Staunton) River
Charlotte	Gage at Randolph	Roanoke (Staunton) River
Halifax	Gage at Paces	Dan River
Fauquier	Bridge on U.S. Highway 15, Remington	Rappahannock River
Henrico	Danglasdale Road Filter Plant, Richmond	--
--	Thirty-seventh STreet Filter Plant, Norfolk	--
--	Moores Bridges Filter Plant, Norfolk	Finished water
WASHINGTON		
Clallam	Near Port Angeles	Sol Duc Hot Springs
King	Landsburg	Cedar River
King	2.5 mi W. of Renton	Cedar River
Pierce	2 mi S. of Puyallup	Green River
WISCONSIN		
Milwaukee	Milwaukee, finished water	Lake Michigan
Monroe	T. 18 N., R. 2 W., sec. 27, NE1/4SW1/4,	Stream
WYOMING		
Teton	Bisquit Basin of Upper Geyser Basin, Yellowstone National Park	Sapphire Pool
Teton	Below Black Dragon's Cauldron, Mud Volcano Mesa, Yellowstone National Park	Churning Cauldron
Teton	Lower Geyser Basin, Yellowstone National Park	Black Warrior Spring
Teton	Norris Basin, Yellowstone National Park	Echinos Geyser
Teton	West Thumb area, Yellowstone National Park	Abyss Pool
Teton	Upper Geyser Basin, Yellowstone National Park	Sprite Pool
Teton	Yellowstone National Park	Tortoise Shell Spring
Teton	Lower Basin, Yellowstone National Park	Leather Pool
Teton	Midway Basin, Yellowstone National Park	Excelsior Geyser
Park	Mammoth Hot Springs, Yellowstone National Park	Cleopatra Terrace pool
Teton	Upper Geyser Basin, Yellowstone National Park	Chinaman Spring
Carbon	33 mi N. of Medicine Bow, 1000 ft above Little Medicine Bow River	Unnamed tributary
Albany	35 mi N. of Medicine Bow	Irrigation
Albany	30 mi NE. of Medicine Bow	Sheep Creek
Carbon	30 mi N. of Medicine Bow, above ford	Little Medicine Bow River
Albany	15 mi NE. of Medicine Bow	Sheep Creek
Albany	15 mi N. of Medicine Bow	Little Medicine Bow River

data for selected surface-water samples

Date sampled	Time (24 hour)	Discharge (cu ft/s)	Gross alpha; U-natural (µg/L)	Gross beta; Sr-90/Y-90 (pCi/L)	Radium-226 planchet (pCi/L	U-natural; direct fluor. (µg/L)
1/31/59	--	--	< 0.4	2.7 ± 0.7	0.1 ± 0.1	2.6 ± 0.3
1/31/59	--	--	< 0.2	< 0.7	< 0.1	4.3 ± 0.4
3/18/59	1615	--	--	10	--	--
3/18/59	1500	--	--	8.1	--	--
3/19/59	1900	--	--	5.7	--	--
4/25/59	--	--	< 0.2	2.4 ± 0.4	0.2 ± 0.1	3.4 ± 0.3
e. 03/60	--	--	< 0.2	< 1.1	< 0.1	--
e. 03/60	--	--	< 4.4	2.1 ± 1.2	< 0.1	--
12/12/60	1725	--	0.3 ± 0.2	3.1 ± 0.5	< 0.1	0.1 ± 0.1
11/29/60	1015	--	< 0.5	2.3 ± 0.4	< 0.1	0.1 ± 0.1
11/29/60	1115	--	< 0.5	1.7 ± 0.3	< 0.1	0.3 ± 0.1
4/29/61	1600	--	< 2	3.4 ± 0.5	0.1 ± 0.1	< 0.1
6/22/61	--	--	< 2.2	5.1 ± 0.8	0.3 ± 0.1	0.4 ± 0.1
6/22/61	--	--	< 2.2	4.3 ± 0.6	0.2 ± 0.1	0.2 ± 0.1
12/19/61	1640	--	< 0.5	13 ± 2	< 0.1	0.7 ± 0.1
12/19/61	--	--	< 0.5	8.2 ± 1.2	0.4 ± 0.1	0.3 ± 0.1
3/12/62	--	--	--	37 ± 6	< 0.1	0.2 ± 0.1
3/13/62	--	--	--	19 ± 3	0.1 ± 0.1	0.2 ± 0.1
1/14/63	1345	--	--	12 ± 2	0.2 ± 0.1	< 0.4
1/16/62	--	--	--	6 ± 0.9	< 0.1	0.2 ± 0.1
1/17/62	--	--	--	13 ± 2	< 0.1	< 0.1
2/12/62	--	--	--	28 ± 4	0.2 ± 0.1	< 0.1
e. 02/55	--	--	--	< 8	< 0.1	< 0.1
7/26/61	925	--	< 1.3	1.2 ± 0.2	0.1 ± 0.1	< 0.1
7/25/61	1025	--	< 1	1.5 ± 0.3	< 0.1	< 0.1
1/4/62	1515	--	< 0.5	23 ± 3	0.2 ± 0.1	0.2 ± 0.1
8/2/61	--	--	< 5	2.9 ± 0.4	< 0.1	< 0.1
9/23/61	--	--	--	1.7 ± 0.3	< 0.1	< 0.1
9/5/59	--	--	< 7	22 ± 6	0.2 ± 0.1	0.5 ± 0.1
9/5/59	--	--	< 11	68 ± 10	0.1 ± 0.1	3.6 ± 0.4
9/1/59	--	--	2.6 ± 2.5	17 ± 3	0.3 ± 0.1	0.5 ± 0.1
9/3/59	--	--	30 ± 15	99 ± 15	3.3 ± 0.7	2.3 ± 0.2
9/5/59	--	--	< 7.3	25 ± 7	< 0.1	0.2 ± 0.1
9/1/59	--	--	< 5.7	19 ± 5	0.4 ± 0.1	1.1 ± 0.1
9/1/59	--	--	< 6.7	23 ± 6	< 0.1	< 0.1
9/5/59	--	--	11 ± 8	52 ± 7	1.3 ± 0.3	41 ± 4
9/5/59	--	--	< 7.6	16 ± 6	0.1 ± 0.1	0.6 ± 0.1
5/31/60	--	--	75 ± 36	120 ± 20	11 ± 2	0.3 ± 0.1
5/30/60	1700	--	< 5.7	27 ± 4	< 0.1	0.4 ± 0.1
7/26/60	--	--	410 ± 180	330 ± 50	28 ± 6	700 ± 70
7/26/60	--	0	11 ± 6	20 ± 3	3.3 ± 0.7	20 ± 2
7/25/60	--	--	< 16	13 ± 2	0.1 ± 0.1	6.2 ± 0.6
7/26/60	--	31632	320 ± 70	330 ± 50	25 ± 5	670 ± 70
7/26/60	--	--	6 ± 4.3	14 ± 2	0.4 ± 0.1	8.2 ± 0.8
7/25/60	1900	--	240 ± 110	220 ± 33	0.3 ± 0.1	410 ± 40

County	Location of point of collection	River or stream
WYOMING (cont.)		
Carbon	3 mi N. of Medicine Bow	Little Medicine Bow River
Carbon	3 m i N. of Medicine Bow, 1000 ft above Little Medicine Bow River	Unnamed tributary
Carbon	T. 27 N., R. 84 W., sec. 25, NW1/4, Shirley Basin, Pedro Mountains	Creek bottom
Carbon	T. 27 N., R. 81 W., sec. 8, NE1/4, NW. Medicine Bow	Standing pool
Carbon	T. 28 N., R. 82 W., sec. 16, NE 1/4, S. of Alcova, 0.5 mi. W. of McCune Spring	Springfed stream
Albany	T. 27 N., R. 74 W., 5 mi SW. of Toltec	North Laramie River
Albany	T. 25 N., R. 73 W., N. of bridge at Garrett	North Laramie River
Carbon	T. 28 N., R. 78 W., sec. 36, NW 1/4	Spring Creek
Carbon	T. 29 N., R. 80 W., 12 mi NW. of Medicine Bow	Difficulty Creek
Albany	T. 28 N., R. 76 W., 1 mi E. of Little Medicine	S. Prong of Little Medicine Bow River
Albany	T. 26 N., R. 83 W., sec. 1, SW 1/4, 6 mi E. of Leo	S. Fork of Sage Creek
Albany	T. 25 N., R. 74 W., 2 mi NW. of Garrett	Cow Creek
Albany	T. 28 N., R. 76 W., 1 mi E. of Little Medicine	N. Prong of Little Medicine Bow River
Converse	T. 30 N., R. 75 W., 20 mi S. of Glenrock	E. Box Elder Creek
Albany	T. 28 N., R. 76 W., 5 mi NW. of Little Medicine	N. branch of Little Medicine Bow River
Albany	T. 28 N., R. 74 W., 45 mi SW. of Douglas	La Bonte Creek
Converse	T. 29 N., R. 74 W., 35 mi SW. of Douglas	Gould Creek
Carbon	T. 27 N., R. 78 W., sec. 1, NW 1/4	Little Medicine Bow River
Carbon	T. 24 N., R. 81 W., 15 mi N. of Hanna	Troublesome Creek
Carbon	T. 24 N., R. 83 W., 15 mi S. of Leo	Austin Creek
Carbon	T. 26 N., R. 78 W., 28 mi N. of Medicine Bow	Little Medicine Bow River
Converse	T. 30 N., R. 75 W., 20 mi S. of Glenrock	Box Elder Creek
Carbon	4 mi E. of Medicine Bow, SW. gage	Medicine Bow River
Carbon	- -	Little Medicine Bow River
Albany	T. 27 N., R. 75 W., 45 mi N. of Rock River	Sheep Creek
Carbon	T. 26 N., R. 80 W., above bridge	Muddy Creek
Albany	2 mi SE. of Bosler	Big Laramie River
Carbon	T. 27 N., R. 78 W., sec. 14, NW 1/4, 500 ft S. of Artesian wells	Little Medicine Bow River
Carbon	T. 28 N., R. 78 W., sec. 30, SE 1/4	Little Medicine Bow River
Carbon	T. 28 N., R. 78 W., sec. 28, NE 1/4	Mine Creek
Carbon	T. 24 N., R. 81 W., 12 mi N. of Hana	Medicine Bow River
Converse	T. 32 N., R. 75 W., sec. 1, 10 mi SE. of Glenrock	- -
Albany	T. 25 N., R. 76 W., above reservoir	Sheep Creek
Natrona	T. 29 N., R. 84 W., sec. 24, SE 1/4, 0.5 mi below Pathfinder Dam	North Platte River
Carbon	T. 26 N., R. 84 W., sec. 22, NW 1/4	North Platte River
Converse	T. 31 N., R. 70 W., sec. 1, 0.5 mi W. of Orin	North Platte River
Natrona	T. 31 N., R. 79 W., 15 mi S. of Casper	Corral Creek
Carbon	T. 22 N., R. 66 W., sec. 13, SW 1/4, gage	North Plate River
Natrona	T. 30 N., R. 79 W., 18 mi S. of Casper	Bates Creek
Natrona	T. 30 N., R. 82 W., sec. 19, SW 1/4, Alcova	North Platte River
Natrona	T. 32 N., R. 77 W.	Muddy Creek
Converse	T. 31 N., R. 71 W., sec. 8, SW 1/4, 6 mi S. of Douglas	Spring (swimming pool)
Converse	T. 31 N., R. 73 W., sec. 6, 15 mi SW. of Douglas	LaPrele Creek
Converse	T. 29 N., R. 72 W., sec. 11, SW 1/4	LaBonte Creek
Natrona	T. 29 N., R. 77 W., sec. 16, NW 1/4, 25 mi SE. of Casper	Deer Creek
Albany	T. 28 N., R. 70 W., sec. 18, NE 1/4, 0.5 mi below confluence with Cripple Creek	Horseshoe Creek
Converse	T. 31 N., R. 72 W., 10 mi SW. of Douglas	Wagon Hound Creek
Carbon	T. 27 N., R. 78 W., sec. 22, SE 1/4, 25 mi N. of Medicine Bow	Sand Creek
Fremont	Atlas Mine	Effluent from settling basin

data for selected surface-water samples

Date sampled	Time (24 hour)	Discharge (cu ft/s)	Gross alpha; U-natural (µg/L)	Gross beta; Sr-90/Y-90 (pCi/L)	Radium-226 planchet (pCi/L	U-natural; direct fluor. (µg/L)
7/26/60	--	--	37 ± 19	47 ± 7	0.5 ± 0.1	62 ± 6
9/8/60	--	31632	180 ± 80	160 ± 24	18 ± 4	320 ± 30
9/9/60	--	--	1.3 ± 0.7	4.8 ± 0.7	0.4 ± 0.1	1.1 ± 0.1
11/13/62	--	--	--	85 ± 13	0.1 ± 0.1	0.4 ± 0.4
11/30/62	--	--	--	6.5 ± 1	0.1 ± 0.1	2.6 ± 0.4
7/10/63	--	--	--	87 ± 13	0.3 ± 0.1	13 ± 1
7/9/63	--	--	--	130 ± 20	0.3 ± 0.1	6.6 ± 0.7
7/12/63	--	--	--	1400 ± 200	37 ± 7	5700 ± 600
7/11/63	--	--	--	30 ± 4	0.2 ± 0.1	52 ± 5
6/10/63	--	--	--	86 ± 13	0.4 ± 0.1	7.3 ± 0.7
6/11/63	--	--	--	12 ± 2	0.3 ± 0.1	3.3 ± 0.4
6/9/63	--	--	--	36 ± 5	0.2 ± 0.1	5.3 ± 0.5
6/10/63	--	--	--	49 ± 7	0.3 ± 0.1	18 ± 2
6/9/63	--	--	--	50 ± 8	0.7 ± 0.1	0.7 ± 0.4
7/10/63	--	--	--	25 ± 4	0.9 ± 0.2	< 0.4
7/9/63	--	--	--	55 ± 8	0.1 ± 0.1	3.1 ± 0.4
7/9/63	--	--	--	16 ± 2	< 0.1	0.5 ± 0.4
7/12/63	--	--	--	400 ± 60	10 ± 2	1800 ± 200
7/11/63	--	--	--	30 ± 4	0.2 ± 0.1	41 ± 4
7/11/63	--	--	--	15 ± 2	0.1 ± 0.1	6.6 ± 0.7
7/10/63	--	--	--	260 ± 40	4.6 ± 0.9	720 ± 70
7/9/63	--	--	--	20 ± 3	0.2 ± 0.1	0.9 ± 0.4
7/10/63	--	--	--	31 ± 5	0.2 ± 0.1	5.2 ± 0.5
7/11/63	--	--	--	120 ± 20	0.5 ± 0.1	220 ± 20
7/10/63	--	--	--	38 ± 6	0.2 ± 0.1	3.2 ± 0.4
7/12/63	--	--	--	89 ± 13	0.2 ± 0.1	62 ± 6
7/9/63	--	--	--	44 ± 7	0.1 ± 0.1	7 ± 0.7
7/11/63	--	--	--	330 ± 50	7.7 ± 1.5	820 ± 80
7/12/63	--	--	--	30 ± 5	0.4 ± 0.1	24 ± 2
7/11/63	--	--	--	3000 ± 400	170 ± 30	7800 ± 800
7/11/63	--	--	--	63 ± 9	0.5 ± 0.1	43 ± 4
7/9/63	--	--	--	27 ± 4	0.2 ± 0.1	2 ± 0.4
7/12/63	--	--	--	93 ± 14	0.1 ± 0.1	2.5 ± 0.4
7/18/63	--	--	--	21 ± 3	0.1 ± 0.1	9.8 ± 1
7/18/63	--	--	--	21 ± 3	0.1 ± 0.1	9 ± 0.9
7/19/63	--	--	--	22 ± 3	0.3 ± 0.1	6 ± 0.6
7/18/63	--	--	--	9.4 ± 1.2	< 0.1	1 ± 0.4
7/18/63	--	--	--	21 ± 3	0.1 ± 0.1	8.3 ± 0.8
7/18/63	--	--	--	21 ± 3	0.3 ± 0.1	4.3 ± 0.4
7/18/63	--	--	--	25 ± 4	0.1 ± 0.1	8 ± 0.8
7/19/63	--	--	--	19 ± 3	0.2 ± 0.1	11 ± 1
7/19/63	--	--	--	46 ± 7	16 ± 3	6.8 ± 0.7
7/19/63	--	--	--	22 ± 3	0.3 ± 0.1	28 ± 3
7/19/63	--	--	--	15 ± 2	0.3 ± 0.1	20 ± 2
7/18/63	--	--	--	13 ± 2	0.1 ± 0.1	1.7 ± 0.4
7/19/63	--	--	--	9 ± 1	0.2 ± 0.1	2.4 ± 0.4
7/19/63	--	--	--	35 ± 5	0.3 ± 0.1	35 ± 4
9/6/63	--	--	--	5.1 ± 0.7	0.2 ± 0.1	2.7 ± 0.4
10/3/63	--	--	--	3100 ± 500	1200 ± 200	3400 ± 300

Table 2.-- ***Sample-site data and radiochemical***

County	Location of point of collection	River or stream
WYOMING (cont.)		
Carbon	4 mi E. of Medicine Bow, gage	Medicine Bow River
Carbon	T. 24 N., R. 81 W., sec. 34, NW 1/4, 12 mi N. of Hana gage	- -
Campbell	T. 42 N., R. 76 W., sec. 12	Spring
Campbell	T. 42 N. R. 76 W., sec. 12, 10 mi W. of Pine Tree, Taylor Ranch	
Campbell	T. 42 N. R. 76 W., sec. 12, 10 mi W. of Pine Tree, Taylor Ranch	Spring no. 1
Campbell	T. 42 N. R. 76 W., sec. 12, 10 mi W. of Pine Tree, Taylor Ranch	Spring no. 2
Campbell	T. 42 N. R. 76 W., sec. 12, 10 mi W. of Pine Tree, Taylor Ranch	Spring no. 2
Carbon	T. 24 N., R. 80 W., 12 mi NW. of Medicine Bow	Difficulty Creek
Albany	T. 28 N., R. 76 W., 2 mi E. of Little Medicine	N. prong of S. Fork of Little Medicine Bow River
Converse	T. 30 N., R. 74 W., 18 mi SW. of Douglas	La Prele Creek
Carbon	T. 22 N., R. 78W., sec. 2, SE 1/4, 4 mi E. of Medicine Bow	Rock Creek
Carbon	T. 22 N., R. 78 W., sec. 15, NE 1/4, 4 mi E. of Medicine Bow	Medicine Bow River
Carbon	T. 24 N., R. 81 W., sec. 34, NW 1/4 SW 1/4, 12 mi N. of Hanna	Medicine Bow River
Carbon	T. 28 N., R. 78 W., sec. 28, NE 1/4, 30 mi N. of Medicine Bow	Mine Creek
Natrona	T. 30 N., R. 82 W., sec. 19, SW 1/4, Alcove	North Platte River
Natrona	T. 29 N., R. 87 W., sec. 25, NE 1/4, 25 mi SW. of Alcova	Sweetwater River
Goshen	T. 23 N., R. 60 W., sec. 3, SE 1/4, 1 mi SE. of Henry, Nebraska	North Platte River
Carbon	T. 27 N., R. 76 W., sec. 1, NW 1/4, 30 mi N. of Medicine Bow	Little Medicine Bow River
Goshen	T. 26 N., R. 64 W., sec. 28, NE 1/4, 1.25 mi SW. of Fort Laramie	Laramie River
Natrona	T. 29 N., R. 84 W., sec. 24, SW 1/4, 9 mi SW. of Alcova, below Pathfinder Dam	North Platte River
Natrona	T. 31 N., R. 81 W., sec. 1, SE 1/4 SE 1/4, 7 mi SW. of Goose Egg	Bates Creek
Carbon	T. 28 N., R. 76 W., sec. 36, NW 1/4, 33 mi N. of Medicine Bow	Spring Creek
Platte	R. 27 N., R. 66 W., sec. 27, SE 1/4 SE 1/4, 0.5 mi W. of Guernsey, below Guernsey Dam	North Platte River
Carbon	T. 22 N., R. 66 W., sec. 13, SW 1/4 SW 1/4, 8 mi NE. of Sinclair, above Seminoe Reservoir	North Platte River
Converse	T. 31 N., R. 69 W., sec. 17, SW 1/4 S1/4, Orin	North Platte River
Carbon	T. 28 N., R. 77 W., sec. 30, SE 1/4, 35 mi N. of Medicine Bow	Little Medicine Bow River
Carbon	T. 23 N., R. 78 W., sec. 21, SE 1/4, 3 mi N. of Medicine Bow	Little Medicine Bow River
Carbon	T. 28 N., R. 78 W., sec. 1, NE 1/4, 28 mi N. of Medicine Bow	Little Medicine Bow River
- -	T. 23 N., R. 78 W., sec. 21, SE 1/4, station no. 1	- -
--	T. 26 N., R. 78 W., sec. 1, NW 1/4, station no. 2	- -
- -	T. 27 N., R. 78 W., sec. 1, NW 1/4, station no. 3	- -
- -	T. 28 N., R. 77 W., sec. 30, SE 1/4, station no. 4	Little Medicine Bow River
- -	T. 27 N., R. 75 W., Sheep Creek Station no. 2	Cottonwood Creek
Fremont	T. 28 N., R. 101 W., 100 ft above bridge on Wyoming Highway 28	Sweetwater River
Fremont	T. 29 N., R. 103 W., sec. 35, swamp feeding reservoir	Springs
Fremont	T. 29 N., R. 103 W., sec. 36	Reservoir
Fremont	T. 28 N., R. 103 W., sec. 2	Springs
Fremont	T. 28 N., R. 103 W., sec. 11	Springs
Fremont	T. 28 N., R. 103 W., sec. 11	Springs
Fremont	T. 28 N., R. 103 W., sec. 15	Springs
Fremont	T. 28 N., R. 103 W., sec. 22	Springs
Fremont	T. 27 N., R. 103 W., sec. 4, McCann Ranch	Springs
Fremont	T. 28 N., R. 103 W., sec. 22	Depression in draw
Fremont	T. 28 N., R. 103 W., sec. 16	Reservoir
Fremont	T. 28 N., R. 104 W., sec. 13	Reservoir
Fremont	T. 28 N., R. 104 W., sec. 14	Springs
Fremont	T. 28 N., R. 104 W., sec. 14	Reservoir
Fremont	T. 29 N., R. 103 W., sec. 32	Springs

data for selected surface-water samples

Date sampled	Time (24 hour)	Discharge (cu ft/s)	Gross alpha; U-natural (µg/L)	Gross beta; Sr-90/Y-90 (pCi/L)	Radium-226 planchet (pCi/L	U-natural; direct fluor. (µg/L)
e. 06/64	--	--	--	30 ± 4	0.8 ± 0.2	0.5 ± 0.4
e. 06/64	--	--	--	25 ± 4	0.7 ± 0.1	15 ± 2
e. 08/64	--	--	--	--	--	54 ± 5
10/21/64	--	--	--	--	--	45 ± 5
10/21/64	--	--	--	--	--	51 ± 5
10/21/64	--	--	--	--	--	54 ± 5
11/5/64	--	--	--	--	--	43 ± 4
11/5/64	--	--	--	--	--	7.3 ± 0.7
11/6/64	--	--	--	--	--	7.9 ± 0.8
11/11/64	--	--	--	13 ± 2	0.3 ± 0.1	28 ± 3
11/11/64	--	--	--	9.5 ± 1.4	0.1 ± 0.1	6.1 ± 0.6
11/11/64	--	--	--	38 ± 5.7	0.4 ± 0.1	77 ± 8
11/11/64	--	--	--	11000 ± 1600	51 ± 10	28000 ± 2800
11/11/64	--	--	--	21 ± 3.2	0.2 ± 0.1	14 ± 1
11/11/64	--	--	--	15 ± 2.3	< 0.1	20 ± 2
11/11/64	--	--	--	15 ± 2.3	0.1 ± 0.1	25 ± 3
11/11/64	--	--	--	260 ± 40	3.9 ± 0.8	920 ± 90
11/11/64	--	--	--	11 ± 1.7	< 0.1	21 ± 2
11/11/64	--	--	--	19 ± 2.9	< 0.1	34 ± 3
11/11/64	--	--	--	27 ± 4.1	0.2 ± 0.1	36 ± 4
11/11/64	--	--	--	700 ± 100	18 ± 3.6	2400 ± 240
11/11/64	--	--	--	16 ± 2.4	0.2 ± 0.1	13 ± 1
11/11/64	--	--	--	12 ± 1.6	0.2 ± 0.1	9.9 ± 1
11/11/64	--	--	--	18 ± 2.7	0.2 ± 0.1	17 ± 2
11/11/64	--	--	--	30 ± 4.5	5.1 ± 1	31 ± 3
11/11/64	--	--	--	160 ± 23	0.6 ± 0.1	630 ± 63
11/11/64	--	--	--	200 ± 30	4.2 ± 0.8	950 ± 95
e. 05/64	--	--	--	29 ± 4	1 ± 0.2	38 ± 4
e. 05/64	--	--	--	37 ± 6	1.8 ± 0.4	66 ± 6
e. 05/64	--	--	--	39 ± 6	1.8 ± 0.4	68 ± 7
5/26/64	--	--	--	140 ± 20	0.4 ± 0.1	2.3 ± 0.4
6/10/63	--	--	--	17 ± 2	0.1 ± 0.1	0.8 ± 0.4
--	--	--	--	--	--	2.5 ± 0.4
--	--	--	--	--	--	25 ± 3
--	--	--	--	--	--	3 ± 0.4
--	--	--	--	--	--	14 ± 1
--	--	--	--	--	--	< 0.4
--	--	--	--	--	--	5.3 ± 0.5
--	--	--	--	--	--	< 0.4
--	--	--	--	--	--	0.5 ± 0.4
--	--	--	--	--	--	9 ± 0.9
--	--	--	--	--	--	2.3 ± 0.4
--	--	--	--	--	--	2.1 ± 0.4
--	--	--	--	--	--	1 ± 0.4
--	--	--	--	--	--	0.5 ± 0.4
--	--	--	--	--	--	2.5 ± 0.4
--	--	--	--	--	--	4.4 ± 0.4

Table 2.-- ***Sample-site data and radiochemical***

County	Location of point of collection	River or stream
WYOMING (cont.)		
Fremont	T. 29 N., R. 103 W., sec. 34, 0.25 mi SW. of Chambers	Springs
Fremont	T. 29 N. R. 103 W., sec. 28, E. side of Prospect Mountain	Springs
Fremont	T. 29 N., R. 103 W., sec. 10	Lander Creek
Fremont	T. 28 N., R. 103 W., sec. 11	Halls Meadow Spring
Fremont	T. 28 N., R. 102 W., sec. 11	Spring
Fremont	T. 28 N., R. 103 W., sec. 15	Depression in bottom of draw
Fremont	T. 28 N., R. 103 W., sec. 24	Springs
Fremont	T. 28 N., R. 103 W., sec. 24	Large dugout springs
Fremont	T. 28 N., R. 103 W., sec. 24	Springs
Fremont	T. 27 N., R. 104 W., sec. 12	Reservoir
Fremont	T. 28 N., R. 104 W., sec. 21	Little Sandy Creek
Fremont	T. 28 N., R. 104 W., sec. 21	Little Mitchell Slough
Fremont	T. 29 N., R. 104 W., sec. 33, above bridge W. of Elkhorn Junction	Little Sandy Creek
Fremont	T. 29 N., R. 103 W., sec. 8	Stream issuing from springs
Fremont	T. 29 N., R. 103 W., sec. 35	Reservoir
Fremont	T. 29 N. R. 103 W., sec. 35	Reservoir
Fremont	T. 28 N., R. 102 W., sec. 6, near base of Bridger	Springs
Fremont	T. 28 N., R. 102 W., sec. 6, near base of Bridger	Springs
Fremont	T. 27 N., R. 102 W., sec. 1, N. of Pacific Butte	Pacific Springs
Fremont	T. 28 N., R. 102 W., sec. 32	Springs
Fremont	T. 28 N., R. 102 W., sec. 30	Swampy springs
Fremont	T. 28 N., R. 102 W., sec. 20	Springs
Fremont	T. 29 N., R. 102 W., sec. 33	Lander Creek
Fremont	T. 29 N., R. 103 W., sec. 14, Juel Ranch	Springs
Fremont	T. 30 N., R. 103 W., sec. 28	Springs
Fremont	T. 30 N., R. 103 W., sec. 34, tributary of Blucher Creek	Stream
Fremont	T. 30 N., R. 103 W., sec. 36, NE1/4	Springs
Fremont	T. 30 N., R. 103 W., sec. 36, SE1/4	Springs

data for selected surface-water samples

Date sampled	Time (24 hour)	Discharge (cu ft/s)	Gross alpha; U-natural (µg/L)	Gross beta; Sr-90/Y-90 (pCi/L)	Radium-226 planchet (pCi/L	U-natural; direct fluor. (µg/L)
--	--	--	--	--	--	7.7 ± 0.8
--	--	--	--	--	--	< 0.4
11/12/65	--	--	--	--	--	< 0.4
--	--	--	--	--	--	65 ± 7
--	--	--	--	--	--	5 ± 0.5
--	--	--	--	--	--	9.5 ± 1
--	--	--	--	--	--	< 0.4
--	--	--	--	--	--	7.1 ± 0.7
--	--	--	--	--	--	< 0.4
--	--	--	--	--	--	0.8 ± 0.4
--	--	--	--	--	--	0.9 ± 0.4
--	--	--	--	--	--	8.8 ± 0.9
--	--	--	--	--	--	< 0.4
--	--	--	--	--	--	< 0.4
--	--	--	--	--	--	2.9 ± 0.4
--	--	--	--	--	--	0.6 ± 0.4
--	--	--	--	--	--	2.6 ± 0.4
--	--	--	--	--	--	2.1 ± 0.4
--	--	--	--	--	--	4.4 ± 0.4
--	--	--	--	--	--	3 ± 0.4
--	--	--	--	--	--	1.3 ± 4
--	--	--	--	--	--	1.1 ± 0.4
--	--	--	--	--	--	0.4 ± 0.4
--	--	--	--	--	--	< 0.4
--	--	--	--	--	--	< 0.4
--	--	--	--	--	--	0.8 ± 0.4
--	--	--	--	--	--	0.4 ± 0.4
--	--	--	--	--	--	< 0.4

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