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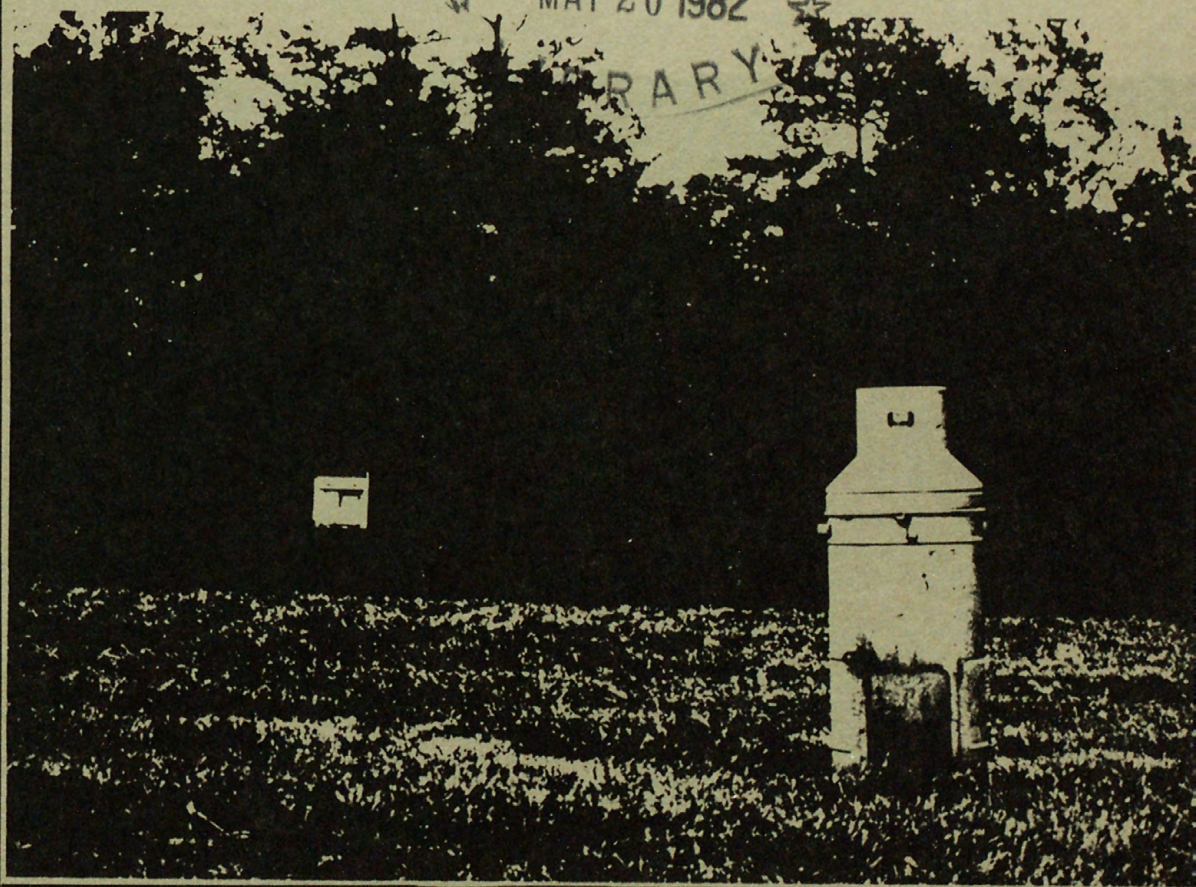
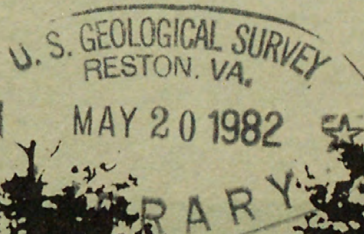
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PRECIPITATION DATA

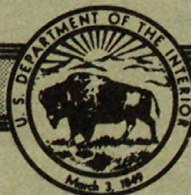
FOR BURIAL GROUNDS 5 AND 6,
OAK RIDGE NATIONAL LABORATORY,
TENNESSEE, 1976-1980



U.S. GEOLOGICAL SURVEY



OPEN-FILE REPORT 82-254



PREPARED IN COOPERATION WITH THE
UNITED STATES DEPARTMENT OF ENERGY

Cover photo: Rain gage at Burial Ground 5,
June 1979.

PRECIPITATION DATA

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By D. A. Webster, J. S. Beatty, P. M. Benjamin, and W. M. Trnum

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UNITED STATES DEPARTMENT OF ENERGY

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UNITED STATES DEPARTMENT OF THE INTERIOR

JAMES G. WATT, Secretary

GEOLOGICAL SURVEY

Dallas L. Peck, Director

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PRECIPITATION DATA FOR BURIAL GROUNDS 5 AND 6,
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ABSTRACT

As part of a hydrogeologic investigation, precipitation data were collected at two stations, one each in Burial Grounds 5 and 6 at the Oak Ridge National Laboratory, Tennessee. Daily, monthly, and annual values are reported herein for the period from January 1976 through December 1980. During this period, annual values ranged from about 25 percent above to about 25 percent below the calculated mean of 51.96 inches at Burial Ground 5 and 49.60 inches at Burial Ground 6.

INTRODUCTION

Solid waste materials contaminated by low levels of radioactivity commonly are disposed of by shallow trench burial in areas termed "burial grounds." As part of a hydrogeologic investigation of the burial grounds at Oak Ridge National Laboratory, personnel of the Geological Survey have operated two rain gages, one each in Burial Ground 5 and in Burial Ground 6, since 1976. Precipitation data have been collected to document recent hydrologic conditions at the disposal sites, to obtain information about the spatial and temporal variability of precipitation, to determine the gross amount of precipitation available for recharge to the ground-water reservoir, to correlate incidence of precipitation with changes in water levels in wells, and to use in numerical models that simulate the hydrologic system of the disposal areas.

This report presents the daily, monthly, and annual precipitation data recorded at each of the two stations during the five-year period 1976 through 1980. Also presented are the mean monthly and mean annual values for the two stations. Although the gages continue to be operated, the data collected during the 5-year period are being published at this time to serve the needs of the operators and managers of the burial grounds as well as the scientists who are performing various studies of these sites.

The stations are located about 1 mile apart in the Melton Valley area of Oak Ridge National Laboratory (fig. 1). Additional station data are:

	<u>Date of installation</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Approximate ground elevation (feet above National Geodetic Vertical Datum of 1929)</u>
Burial Ground 5	11-25-75	35°54'46"	84°18'44"	810
Burial Ground 6	1-20-76	35°54'17"	84°19'34"	805

The instruments used to record precipitation are weighing-bucket rain gages with analog recorders (front cover). In general, they have been serviced on a weekly basis throughout the 5-year interval.

EXPLANATION OF RECORD

The record of precipitation at the two stations is reported in tables 1, 2, and 3. Table 1 lists daily measurements at each station and monthly totals. Table 2 summarizes the monthly totals from table 1 and lists mean monthly values for the 5-year period. Table 3 provides a summation of the monthly data in table 2 and offers a mean annual value for the period of record.

Although continuous record at each station was desired, the records are incomplete owing to occasional interruptions in the operation of the instruments. Some of the interruptions were caused by recorder clock stoppages while others resulted from malfunctions of the recorder. For those periods of interruption resulting from clock stoppages, a record of cumulative precipitation was obtained and assigned to the days that the failure existed. For those periods when the operation of either rain gage was interrupted for reasons other than clock failure, no record of precipitation was obtained. As a result, several monthly and annual summations for individual stations fall short of representing total amounts of precipitation. In order to provide monthly and annual means for the 5-year period, a simple statistical average has been calculated that is based on the months of complete record.

The following symbols have been used in the tables to denote interruption in the operation of the rain gages:

- { - Clock failure; record spans time period bracketed.
- * - Record incomplete for that day, month, or year.
- M - Recorder malfunction; no record obtained for that date.

The absence of a measurement or a symbol indicates that no precipitation was recorded for that date.

All data are reported in inches. For those readers who prefer metric rather than English units, the measurements may be multiplied by 25.4 to obtain values in millimeters.

Table 1.--Measurements of daily precipitation at Burial Grounds 5 and 6,
Oak Ridge National Laboratory, Roane County, Tennessee

5 = Rain gage at Burial Ground 5; 6 = Rain gage at Burial Ground 6

1976	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE	
Day	5	6	5	6	5	6	5	6	5	6	5	6
1			0.25	0.25			0.02		0.57	0.57	0.19	0.28
2							0.01				0.18	0.07
3	0.73		0.17	0.19			0.01					
4						0.04						
5			0.10	0.13	0.44	0.44						
6					0.02				0.38	0.41		
7	0.25				0.01					0.04		
8					{ 1.10	0.50						
9	0.30					0.65						
10												
11		Gage installed ↓	0.04	0.04			0.16	0.13	0.45	0.42		
12					0.22	0.21	0.02					
13	0.70								0.06	0.09		
14									1.26	1.38		
15					0.02	0.04			1.17	1.06		
16					0.12	0.10			0.02	0.10		
17									0.16	{ 0.46		
18	0.02		1.54	1.53					0.50			
19	0.01										1.03	1.03
20	0.01				0.03	0.04					1.37	1.36
21			0.48	0.49	0.28	0.32	0.25	0.24				
22												
23												
24	0.57	0.42			0.08	0.16	0.03	0.04				
25	0.53	0.65			0.23	0.17	0.15	0.15				
26	1.42	1.49			0.20	0.20					0.06	0.07
27	0.05	0.02			0.04	0.05				0.02	0.03	0.02
28									1.53	1.40		0.39
29					1.10	{ 2.24			1.04	1.18	1.44	1.17
30			--	--	1.04		0.16	0.12			0.36	0.33
31			--	--	0.12	0.08	--	--			--	--
Monthly Total	4.59	2.58*	2.58	2.63	5.05	5.24	0.81	0.68	7.14	7.13	4.66	4.72

{ Clock failure

* Incomplete record

Table 1.--Measurements of daily precipitation at Burial Grounds 5 and 6,
Oak Ridge National Laboratory, Roane County, Tennessee--Continued

5 = Rain gage at Burial Ground 5; 6 = Rain gage at Burial Ground 6

1976	JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER	
Day	5	6	5	6	5	6	5	6	5	6	5	6
1					0.33	0.35						
2					0.08	0.09						
3	0.53	0.57										
4	0.80	0.93			0.22	0.33						
5												
6	0.05	0.05	0.57	0.57			0.65	0.63			1.17	1.14
7			0.02	0.05			0.02	0.06			0.35	0.37
8	0.10	0.05					0.55	0.39			0.02	
9	0.05	0.12			0.12	0.13	0.11	0.25				
10												
11									0.15	0.16	0.50	0.38
12	0.31	0.07									0.43	0.54
13												
14			0.01						0.14	0.04		
15	0.47	0.50	0.36	0.38	0.05	0.04			0.02	0.05	0.24	0.24
16	0.56	0.73										
17	0.07	0.05										
18												
19												
20					0.33	0.30	0.52	0.52			0.59	0.54
21												
22	0.76	0.28										
23												
24							0.42	0.44				
25			0.03	0.13			2.03	1.95			0.26	0.29
26			0.34	0.45	0.77	0.77			0.60	0.63	0.22	0.19
27			0.91	0.73	1.67	1.56			0.08	0.08		
28									1.10	1.08		
29			0.02	0.17	0.18	0.20			0.13	0.13		
30					0.05	0.05	0.73	0.72			0.13	0.40
31	0.05	0.10			--	--			--	--	0.37	0.18
Monthly Total	3.75	3.45	2.26	2.48	3.80	3.82	5.03	4.96	2.22	2.17	4.28	4.27

Table 1.--Measurements of daily precipitation at Burial Grounds 5 and 6,
Oak Ridge National Laboratory, Roane County, Tennessee--Continued

5 = Rain gage at Burial Ground 5; 6 = Rain gage at Burial Ground 6

1977	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE	
Day	5	6	5	6	5	6	5	6	5	6	5	6
1									0.35	0.38		
2							0.69	0.78				
3	0.06	0.09			0.10	0.10	0.95	0.90	0.61	0.76		
4	0.04	0.05			0.49	0.53	4.80	4.62				
5	0.16	0.14			0.02	0.02						
6	0.25	0.26			0.28	0.28						
7	0.15	0.15							0.51	1.05		
8												
9	0.31	0.28	0.01	0.02								
10	0.40	0.43										
11												
12			0.31	0.36	2.23	2.13				0.10	0.46	0.45
13			0.02									
14	0.36	0.35									0.80	0.73
15	0.02	0.04									0.18	
16	0.06	0.04										
17	0.10										0.04	0.04
18									0.06			
19					0.15	0.19					0.22	0.32
20					0.25	0.25			0.85	0.84	0.11	0.05
21						0.02					0.40	0.11
22					0.29	0.25	0.39	0.42	0.16	0.14	0.32	0.30
23			0.01	0.02			0.30	0.32	0.25	0.60	0.43	0.55
24	0.03		0.73	0.73					0.06	0.03	0.42	0.24
25	0.30								0.01	0.01	0.64	0.56
26	0.09	0.08									2.80	2.18
27		0.04	0.65	0.73								
28					0.22	0.22			0.03			
29			--	--	0.73	0.90						
30			--	--	0.45	0.18	0.07	0.12				
31			--	--			--	--			--	--
Monthly Total	2.33	2.35	1.73	1.86	5.21	5.07	7.20	7.16	2.89	3.91	6.82	5.53

{ Clock failure

Table 1.--Measurements of daily precipitation at Burial Grounds 5 and 6,
Oak Ridge National Laboratory, Roane County, Tennessee--Continued

5 = Rain gage at Burial Ground 5; 6 = Rain gage at Burial Ground 6

1977	JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER	
Day	5	6	5	6	5	6	5	6	5	6	5	6
1	0.26	0.26	0.05	0.03							0.02	0.05
2							0.05	0.08				
3									0.02	0.02		
4									0.18	0.17	0.72	0.77
5					0.23	0.33			0.92	0.94	0.17	0.20
6					0.04	0.07			0.35	0.35	0.08	0.06
7					1.72	1.88			0.10	0.10		
8			0.12				1.36	1.45			0.05	
9			0.56				0.60	0.64			0.25	0.33
10			0.01									
11			0.15	0.21								
12	0.18	0.11					0.04	0.05				0.03
13			0.23	0.33	0.75	0.65						
14			0.20	0.18	0.60	0.67					0.16	0.18
15			0.12	0.10	0.14	0.22						
16			0.04	0.10	0.83	0.71	0.11	0.14	0.45	0.50		
17			0.50	0.60	1.01	0.94			0.73	0.71	0.16	0.17
18											0.20	0.20
19					1.00	0.94						
20									0.05	0.09	0.02	0.03
21									1.29	1.13		
22	0.84	0.33							1.18	1.35		
23									0.12	0.10		
24			0.50	0.51							1.55	1.62
25	0.94	0.82			0.18	0.22	2.06	2.01			0.09	0.02
26					0.66	0.67	0.06	0.08				
27							0.02		0.38	0.38		
28									0.55	0.71		
29	0.23	0.23			0.88	0.94			1.12	1.14		
30									0.08		0.16	0.17
31					--	--			--	--	0.02	0.05
Monthly Total	2.45	1.75	2.48	2.79	8.04	8.24	4.30	4.45	7.52	7.69	3.65	3.88

{ Clock failure

Table 1.--Measurements of daily precipitation at Burial Grounds 5 and 6,
Oak Ridge National Laboratory, Roane County, Tennessee--Continued

5 = Rain gage at Burial Ground 5; 6 = Rain gage at Burial Ground 6

1978	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE	
Day	5	6	5	6	5	6	5	6	5	6	5	6
1	0.10	0.09			0.07	0.86			*	0.20		
2			0.13	0.13	0.34						1.09	1.20
3		0.02			0.41					0.03		
4				0.02			0.08	0.07	0.03	1.47		
5	0.08	0.11							1.64			
6	0.17	0.19					*					
7	0.01						M			0.24	0.27	0.21
8	1.45	1.45			0.52	0.55	M		0.80	0.95	2.94	3.08
9			*	0.03	1.07	1.10	M		0.02	0.02		
10			M		0.17	0.22	M					
11		0.01	M				M	0.45				
12			M	0.32	0.24	0.20	M		0.20	0.17	0.34	0.40
13	0.03	0.04	M	0.03			M		0.50	0.48	0.04	
14		0.01	M		0.81	0.84	M		0.18	0.22		
15	0.11	0.25	M				M		0.07	0.08		
16			M				M					
17	0.75	0.75	M		0.03	0.04	M	0.04				
18	0.19	0.15	M		0.04	0.05	M	1.38				
19	0.56	0.53	M				M				0.57	0.79
20		0.01	M				M	0.03				
21	0.27	0.31	M	0.05	0.25	0.29	M	0.09			0.19	0.22
22	*	0.07	M	0.16			M					
23	M	0.04	M	0.03			M		0.06	0.11		
24	*	0.50	M				M		0.65	0.53		
25	1.05	1.37	M		0.42	0.46	M	0.74				
26	0.93		M		0.04	0.03	M	0.29				
27	0.03	0.02	*				M					
28			0.18	0.23			M					
29			--	--			M					
30			--	--			M	0.31				
31			--	--			--	--			--	--
Monthly Total	5.73*	5.92	0.31*	1.00	4.41	4.64	0.08*	3.40	4.15*	4.50	5.44	5.90

{ Clock failure
* Incomplete record
M Gage malfunction

Table 1.--Measurements of daily precipitation at Burial Grounds 5 and 6,
Oak Ridge National Laboratory, Roane County, Tennessee--Continued

5 = Rain gage at Burial Ground 5; 6 = Rain gage at Burial Ground 6

1978	JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER	
Day	5	6	5	6	5	6	5	6	5	6	5	6
1		0.04					0.12	0.10				
2	0.50	0.59										
3	0.06	0.03									1.12	1.05
4			0.54	0.59			0.17	0.20			1.02	1.14
5			0.88	0.91								
6			0.67	0.21								
7			0.70	0.46					0.49	0.48	0.11	0.12
8									0.03	0.02	0.74	0.58
9	0.30	0.27	0.19	0.18							1.42	1.45
10					0.81	0.74						
11			0.45	0.49	0.39	0.49						
12			1.86	1.78								
13			0.12	0.12			0.11	0.12				
14			0.17	0.21	0.04	0.05	0.07	0.07				
15	1.60	1.64	0.24	0.05					0.15	0.16		
16	1.30	1.27	0.29	0.23					1.35	1.29	0.30	
17									0.74			
18										0.73		
19											0.16	0.15
20											0.69	0.55
21											0.22	0.29
22									0.21	0.24		
23					0.05	0.05			1.16	1.05		
24	0.34	0.45							0.02		0.30	0.24
25	0.94	1.11	0.99	0.90								
26			0.06	0.04								
27									0.34	0.20		
28										0.20		
29									0.83	0.82		
30			0.10	0.12	0.50	0.50			0.03		0.50	0.51
31	0.67	0.34	0.34	0.30	--	--			--	--	0.29	0.26
Monthly Total	5.71	5.74	7.60	6.59	1.79	1.83	0.47	0.49	5.35	5.19	6.87	6.58

{ Clock failure

Table 1.--Measurements of daily precipitation at Burial Grounds 5 and 6,
Oak Ridge National Laboratory, Roane County, Tennessee--Continued

5 = Rain gage at Burial Ground 5; 6 = Rain gage at Burial Ground 6

1979	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE	
Day	5	6	5	6	5	6	5	6	5	6	5	6
1	1.69	1.65		M			0.17	0.18			0.32	0.40
2	0.03	0.03		M			0.50	0.55			0.18	0.04
3			0.17	M	0.85	2.31	1.08*	1.10	0.22	0.22	1.39	1.34
4				M	1.50		M		1.05	1.17		
5				M			M					
6	1.02	1.05		M			M					
7	1.11	0.98	0.36	M	0.12	0.20	M	0.68				
8			0.47	M	0.09		M				0.29	0.61
9			0.24	M			M					
10				M	0.38							
11				M								
12			0.05	M			1.20	1.34				
13				M			0.68	0.45	0.38	0.30		
14				M	0.42							
15				M								
16				M								
17				M								
18			0.06	M								
19	0.27	0.22	0.37	M								
20	1.89	2.23		M					1.08	1.05		
21	0.32		0.19	*								
22	0.05		0.03	0.05					0.08	0.11		
23		0.55	0.35	0.38	0.96	0.40*			3.30	0.45	0.77	0.78
24	0.49		0.47	0.45	0.11	0.27	0.02			0.97*	0.15	0.03
25			1.37	1.25		0.02	0.55	0.48			0.44	0.31
26			0.06	0.05			0.33	0.38				
27	0.25		0.05	0.05					0.22	0.25		
28		0.23										
29			--	--								
30			--	--					0.21	0.20	0.32	0.38
31	0.06		--	--			--	--	2.24	2.25	--	--
Monthly Total	7.18	6.94	4.24	2.23*	4.43	3.20*	4.53*	5.16	8.78	6.97*	3.86	3.89

{ Clock failure
* Incomplete record
M Gage malfunction

Table 1.--Measurements of daily precipitation at Burial Grounds 5 and 6,
Oak Ridge National Laboratory, Roane County, Tennessee--Continued

5 = Rain gage at Burial Ground 5; 6 = Rain gage at Burial Ground 6

1979	JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER	
Day	5	6	5	6	5	6	5	6	5	6	5	6
1	0.06	0.09			0.07	0.13			0.88	0.85	*	
2					0.21	0.25			0.45	0.48	M	
3						0.09				0.02	*	
4							0.30	0.29				
5												
6											0.15	0.13
7	0.78	0.93	1.52	1.37								
8	0.06	0.05						0.02		0.02		
9	0.61	0.58					0.60	0.44	2.15	2.18		
10	0.28	0.34					0.31	0.52	0.35	0.39		
11												
12	0.25	0.35							0.02	0.02		
13	0.04	0.02			0.22	0.19	0.15	0.15			0.45	0.43
14	1.23	1.41			0.02	0.03						
15	1.02	1.04										
16												
17												
18					0.11	0.11						
19	0.58	1.03										
20	2.48	2.17			0.22	0.22						
21	1.88	1.73	0.04		1.41	1.37						
22	0.45	0.59	0.28	0.51			0.02	0.02				
23				*			0.40	0.43	1.30	1.20	0.28	0.30
24	0.03	0.03	0.08	M					0.35	0.46	0.80	0.80
25	0.43	0.42	0.17	M					0.65	0.40	0.05	0.05
26	0.15	0.11	1.65	M					0.05			
27	0.69	0.84		*	1.23	1.56						
28	0.21	0.26	0.63	0.60	0.40		0.04	0.04				
29							0.25	0.25				
30			0.15	0.16							0.23	0.20
31	0.21		0.03		--	--			--	--	0.13	0.13
Monthly Total												
	11.44	11.99	4.55	2.64*	3.89	3.95	2.07	2.16	6.20	6.02	2.09*	2.04

{ Clock failure
* Incomplete record
M Gage malfunction

Table 1.--Measurements of daily precipitation at Burial Grounds 5 and 6,
Oak Ridge National Laboratory, Roane County, Tennessee--Continued

5 = Rain gage at Burial Ground 5; 6 = Rain gage at Burial Ground 6

1980	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE	
Day	5	6	5	6	5	6	5	6	5	6	5	6
1	0.10	0.10										
2			0.24	0.15	0.13	0.09						
3			0.03	0.18	0.09	0.12	0.26	0.16				
4	0.73	0.70		0.02	0.08	0.03	0.21	0.25				
5					0.58	0.64			0.12	0.15		
6			0.12	0.09								
7	0.25	0.24	0.25	0.25	0.55	0.55			0.08	0.05		
8					0.76	0.79	0.34	0.37				
9			0.12	0.12								
10			0.30	0.28								
11	0.46	0.47										
12	0.01				0.08	0.05	0.72	0.65				
13	0.25	0.19			0.10	0.10	1.21	1.16				
14	0.10	0.12					0.08	0.14				
15	0.02		0.30	0.30			0.01	0.03				
16			0.19	0.19	0.06	0.15			0.02			
17	0.47	0.50			1.29	1.13			1.13			
18	1.35	1.30							0.32		1.40	0.37
19									0.10			0.53
20			0.09	0.08	2.87	2.70			0.48		0.45	
21			0.02	0.03	0.11	0.36						
22	1.33	1.31							0.31	0.26		
23	0.02	0.02							0.32	0.28	0.04	0.04
24					0.50	0.47	0.05	0.01		0.68	0.32	0.25
25							0.01	0.01			0.16	0.09
26							0.79	0.80				
27							0.13	0.13				
28					0.98	0.95						
29							0.23	0.08			0.02	0.03
30	0.11	0.11	--	--	0.02	0.03						
31	0.11	0.04	--	--	0.02	0.02	--	--			--	--
Monthly Total	5.31	5.10	1.66	1.69	8.22	8.18	4.04	3.79	3.69	3.27	0.91	0.94

{ Clock failure

Table 1.--Measurements of daily precipitation at Burial Grounds 5 and 6,
Oak Ridge National Laboratory, Roane County, Tennessee--Continued

5 = Rain gage at Burial Ground 5; 6 = Rain gage at Burial Ground 6

1980	JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER	
Day	5	6	5	6	5	6	5	6	5	6	5	6
1			0.17	0.27								
2					*	0.14	0.04	0.03				
3	1.06	0.99			M							
4			0.21	0.18	M				0.17	0.18		
5	0.08	0.02			M							
6	0.17	0.10			M	0.02						
7					M							
8					*							
9											1.18	1.16
10					1.09	0.91						
11	0.05	0.21										
12	0.19	0.05	0.18	0.22								
13												
14									0.05	0.03		
15			0.35	0.42					0.80	0.78		
16			0.01	0.04								
17			0.06	0.25	0.06	0.06			0.89	0.89		
18			0.01	0.01			0.95	0.99	0.04	0.05		
19			0.03	0.03							0.02	0.02
20	0.08			0.02		0.05						
21	0.35	0.12			0.19	0.23						
22	0.06	0.06										
23									0.71	0.74		
24					0.24	0.24	0.18	0.17	0.76	0.72	0.48	
25					0.30	0.33	0.23	0.22				
26									0.06	0.07		
27	0.44	0.39					0.32	0.34	0.65	0.60		
28					0.42	0.40						
29					0.08	0.11						
30					0.30	0.36					0.05	0.05
31			0.31	0.33	--	--			--	--		
Monthly Total	2.48	1.94	1.33	1.77	2.68*	2.85	1.72	1.75	4.13	4.06	1.73	1.68

{ Clock failure
* Incomplete record
M Gage malfunction

Table 2.--Summary of monthly precipitation at Burial Grounds 5 and 6,
Oak Ridge National Laboratory, Roane County, Tennessee

5 = Rain gage at Burial Ground 5; 6 = Rain gage at Burial Ground 6;
(n) = Number of monthly values used in calculation of monthly mean

	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE	
Year	5	6	5	6	5	6	5	6	5	6	5	6
1976	4.59	2.58*	2.58	2.63	5.05	5.24	0.81	0.68	7.14	7.13	4.66	4.72
1977	2.33	2.35	1.73	1.86	5.21	5.07	7.20	7.16	2.89	3.91	6.82	5.53
1978	5.73*	5.92	0.31*	1.00	4.41	4.64	0.08*	3.40	4.15*	4.50	5.44	5.90
1979	7.18	6.94	4.24	2.23*	4.43	3.20*	4.53*	5.16	8.78	6.97*	3.86	3.89
1980	5.31	5.10	1.66	1.69	8.22	8.18	4.04	3.79	3.69	3.27	0.91	0.94
Mean ^a	4.85	5.08	2.55	1.80	5.46	5.78	4.02	4.04	5.62	4.70	4.34	4.20
(n)	(4)	(4)	(4)	(4)	(5)	(4)	(3)	(5)	(4)	(4)	(5)	(5)
	JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER	
Year	5	6	5	6	5	6	5	6	5	6	5	6
1976	3.75	3.45	2.26	2.48	3.80	3.82	5.03	4.96	2.22	2.17	4.28	4.27
1977	2.45	1.75	2.48	2.79	8.04	8.24	4.30	4.45	7.52	7.69	3.65	3.88
1978	5.71	5.74	7.60	6.59	1.79	1.83	0.47	0.49	5.35	5.19	6.87	6.58
1979	11.44	11.99	4.55	2.64*	3.89	3.95	2.07	2.16	6.20	6.02	2.09*	2.04
1980	2.48	1.94	1.33	1.77	2.68*	2.85	1.72	1.75	4.13	4.06	1.73	1.68
Mean ^a	5.17	4.97	3.64	3.41	4.38	4.14	2.72	2.76	5.08	5.03	4.13	3.69
(n)	(5)	(5)	(5)	(4)	(4)	(5)	(5)	(5)	(5)	(5)	(4)	(5)

* Incomplete record

^a These values are based on those months for which complete records were obtained during the period 1976-1980.

Table 3.--Summary of annual precipitation at Burial Grounds 5 and 6,
Oak Ridge National Laboratory, Roane County, Tennessee

Year	Burial Ground 5 (inches)	Burial Ground 6 (inches)
1976	46.17	44.13*
1977	54.62	54.68
1978	47.91*	51.78
1979	63.26*	57.19*
1980	37.90*	37.02
Mean ^a	51.96	49.60

^a This value is the summation of the monthly means calculated
for each gage (see table 2).

* Incomplete record

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