

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

RECORDS OF WELLS AND WATER-LEVEL FLUCTUATIONS,
IN THE ABERDEEN-SPRINGFIELD AREA, BINGHAM AND
POWER COUNTIES, IDAHO IN 1954

By

HAROLD G. SISCO

OPEN-FILE REPORT. NOT REVIEWED FOR CONFORMANCE WITH
GEOLOGICAL SURVEY EDITORIAL STYLE.

PREPARED IN COOPERATION WITH THE IDAHO DEPARTMENT
OF RECLAMATION, MARK R. KULP, STATE RECLAMATION
ENGINEER, AND WITH IDAHO WATER DISTRICT 36,
LYNN CRANDALL, WATERMASTER

55-165
BOISE, IDAHO
JULY 1955

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INTRODUCTION

THIS REPORT CONTAINS RECORDS OF OBSERVATION WELLS AND WATER-LEVEL FLUCTUATIONS FOR THE CALENDAR YEAR 1954 IN THE ABERDEEN-SPRINGFIELD AREA, BINGHAM AND POWER COUNTIES, IDAHO. SYSTEMATIC OBSERVATIONS IN THE ABERDEEN-SPRINGFIELD AREA WERE BEGUN BY THE GEOLOGICAL SURVEY IN 1952. EACH YEAR A PROGRESS REPORT IS ISSUED AND THIS REPORT IS NUMBER 3 IN THE SERIES.^{1/}

^{1/} SHUTER, EUGENE, 1953, RECORDS OF WELLS AND WATER-LEVEL FLUCTUATIONS IN WESTERN BINGHAM COUNTY, IDAHO: U. S. GEOL. SURVEY MIMED. REPORT. 97 P., 1 FIG., 1 PL.

SISCO, HAROLD G, 1954, RECORDS OF WELLS, WATER-LEVEL FLUCTUATIONS, AND GROUND-WATER WITHDRAWALS IN THE ABERDEEN-SPRINGFIELD AREA, BINGHAM AND POWER COUNTIES, IDAHO: U. S. GEOL. SURVEY MIMED. REPORT, 50 P., 1 FIG., 1 PL.

WORK IN 1954 INCLUDED PERIODIC MEASUREMENTS OF THE DEPTH TO WATER IN 22 OBSERVATION WELLS AND OPERATING RECORDING GAGES IN 4 OTHER OBSERVATION WELLS. IN DECEMBER 1954 DRILLING OF THREE NEW OBSERVATION WELLS WAS STARTED ON THE SOUTH AND EAST SIDES OF THE AMERICAN FALLS RESERVOIR. RECORDING GAGES WILL BE INSTALLED IN TWO OF THE NEW WELLS. RECORDS OF THE WELLS WILL BE INCLUDED IN THE 1955 REPORT.

THE MAIN OBSERVATION-WELL NETWORK CENTERS ALONG AMERICAN FALLS RESERVOIR BETWEEN THE VILLAGE OF THOMAS AND THE TOWN OF AMERICAN FALLS, AND IS BOUNDED ON THE WEST BY THE ABERDEEN-SPRINGFIELD HIGHLINE CANAL AND ON THE EAST BY THE AMERICAN FALLS RESERVOIR (FIG. 1). THE MICHAUD FLATS AREA IS SOUTH OF THE RESERVOIR. THE LOCATIONS OF THE OBSERVATION WELLS AND OF IRRIGATION AND DOMESTIC WELLS INVENTORIED IN 1952 AND 1953 ARE SHOWN ON PLATE 1.

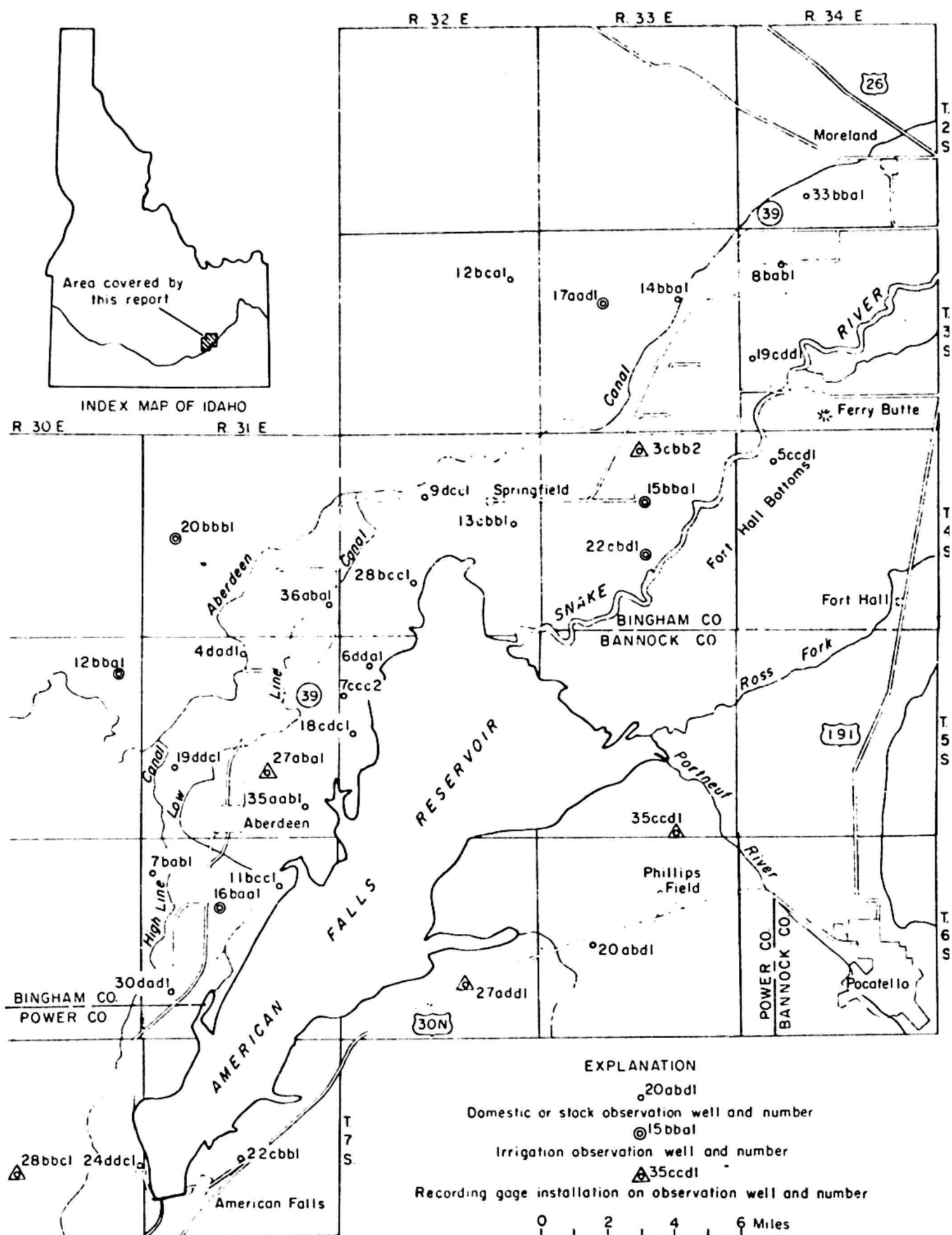


Figure 1.--Map showing location of observation wells in the Aberdeen-Springfield area.

TABLE 1.—RECORDS OF OBSERVATION WELLS IN WESTERN

ABBREVIATIONS:

DEPTH OF WELL: R, REPORTED DEPTH BELOW LAND SURFACE;
NOT VERIFIED BY MEASUREMENT.

TYPE OF PUMP: J, JET; L, LIFT; N, NO PUMP; T, SHAFT TURBINE.

USE OF WELL: D, DOMESTIC; I, IRRIGATION; O, OBSERVATION; S, STOCK

WELL NUMBER	OWNER	YEAR DRILLED	DEPTH IN FEET BELOW LAND SURFACE	CASING		TYPE OF PUMP
				DIAMETER (INCHES)	DEPTH (FEET)	
BINGHAM CO.						
2S-34E-33881	FRED SERR	1928	40	6	5	L
3S-33E-14881	F. J. WEBB	1949	R 50	6	3	L
22CD1	G. R. ATWOOD	-	50	6	-	L
3S-34E-88A1	GLEN CROUCH	1905	37	7	5	N
19CD1	HERB STROW	1937	R 55	6	-	L
4S-31E-22CD1	SAM HEANY	-	59	6	-	N
36BA1	ELDRIDGE (TEST WELL)	-	6	2	6	N
4S-32E-90C1	BOB CHANDLER	1921	105	6	105	J
12DD1	ROBERT HOUGHLAND	-	39	4	-	N
24CB1	CRYSTAL SPRINGS TROUT FARM	-	9	6	-	L
28CC2	O. E. NELSON	1911	9	6	-	N
4S-33E-18C1	HERBERT CRUMLEY	1940	47	6	6	L
158B2	ART VAN ORDEN	1951	48	16	-	T
22CB1	JOSEPHINE SHELMAN	1946	34	14	22	T
5S-31E-40A1	ERNEST UNDERWOOD	1950	81	8	8	L
190D1	DON DANCLIFF	-	61	-	-	J
27AB1	H. L. LOWE	1920	46	16	20	N
338D1	H. L. LOWE	1912	36	6	36	N
5S-31E-35AA1	MARIL BECK	1912	61	6	10	L
5S-32E-60D1	DAYTON MARTIN	-	21	6	-	L
7CC1	ABERDEEN SPRINGFIELD CANAL CO.	-	4	2	4	N
6S-31E-78A1	AIRPORT	-	97	8	-	T
118C1	ED PHILLIPS	-	54	6	-	N
16BA1	ABERDEEN SPRINGFIELD CANAL CO.	-	134	12	-	N
30DA1	BARTHALAMA	-	78	7	-	L
POWER CO.						
6S-33E-20AB1	EDNA LAVATTA KUTCH	-	151	5	-	N
7S-30E-12CA1	JESS MEADOWS	-	-	6	-	J
7S-31E-13DC1	PAUL EVANS	1912	78	5½	-	N

RECORDS OF OBSERVATION WELLS

TABLE 1 CONTAINS INFORMATION ABOUT THE LOCATION, OWNERSHIP, TYPE, DEPTH, AND USE OF THE OBSERVATION WELLS. DEPTHS TO WATER IN WELLS WHICH ARE MEASURED AT INTERVALS OF MORE THAN ONE DAY, REPRESENT DIRECT MEASUREMENTS BY STEEL TAPE. RECORDS OF DAILY WATER LEVELS ARE NOON DAILY READINGS FROM RECORDING-GAGE CHARTS. ALL MEASUREMENTS ARE REPORTED HEREIN IN FEET BELOW THE LAND-SURFACE DATUM AT THE WELL SITES. THE TERMS "LAND-SURFACE DATUM" AND "MEASURING POINT" ARE DEFINED IN EARLIER REPORTS, WHICH ALSO DESCRIBE THE METHOD OF NUMBERING BY WHICH WELLS ARE REFERRED TO IN THIS REPORT.

THE MEASURING POINT ALTITUDES GIVEN IN TABLE 1 ARE ONLY APPROXIMATE. ACCURATE LEVELING TO ALL THE WELLS PROBABLY WILL BE DONE IN THE FUTURE.

LONG-TERM RECORDS, HYDROGRAPHS FOR TWO WELLS IN BINGHAM COUNTY, ARE ILLUSTRATED BY HYDROGRAPHS (FIGS. 2 AND 3).

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BINGHAM AND POWER COUNTIES, IDAHO

CONVENTIONS:

DEPTH TO WATER: MEASURED DEPTHS TO WATER ARE GIVEN TO THE NEAREST ONE-TENTH OF A FOOT.

ALTITUDE OF MEASURING POINT: MEASURING-POINT ALTITUDES ARE GIVEN IN FEET ABOVE MEAN SEA-LEVEL DATUM.

Use OF WELL	DESCRIPTION	MEASURING POINT	
		ALTITUDE	DISTANCE ABOVE OR BELOW (-) LAND SURFACE DATUM (FT.)
0	1/2-IN. TAP HOLE IN PUMP BASE	-	1.5
0	HOLE IN N SIDE PUMP STAND	-	1.6
S,0	BOTTOM OF PUMP BASE	-	1.2
0	TOP OF CASING, E SIDE	-	0.2
0	LOW PLACE IN CASING	-	0.0
0	TOP OF CASING, S SIDE	-	0.5
0	TOP OF 2-IN. PIPE	4,406	1.2
D,0	HOLE IN CASING	4,434	-5.1
0	TOP OF CASING	-	0.5
0	DO	-	0.3
0	TOP OF CONCRETE	-	0.0
D,S,0	TOP OF CASING	-	1.0
I,0	1-IN. TAP HOLE IN PUMP BASE	-	1.0
I,0	BOTTOM HOLE IN CASING	-	0.0
0	TOP OF CASING	-	1.0
D,S,0	TAP HOLE IN PUMP BASE	4,428	1.0
0	TOP EDGE OF INSIDE CASING	-	-1.1
0	TOP OF CASING	4,401	0.5
S,0	TOP OF CASING	4,393	0.9
0	BASE OF PUMP	-	0.6
0	TOP OF DRIVE PIPE	-	0.8
0	LOWER EDGE OF PUMP BASE	-	0.5
0	TOP OF CASING	-	-9.2
0	TOP OF CONCRETE CRIBBING	4,393	0.0
0	TAP HOLE IN PUMP BASE	-	0.5
0	TOP OF CASING, S SIDE	-	0.2
D,S,0	TOP OF CASING, E SIDE	-	-2.0
0	TOP OF CASING, SW SIDE	-	0.0

WATER LEVELS IN OBSERVATION WELLS

BINGHAM COUNTY

2S-34E-33bb1. FRED SERR

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 14	29.3	JUNE 30	25.4	OCT. 22	27.1
FEB. 9	30.2	JULY 27	25.1	NOV. 17	29.3
APR. 6	30.4	AUG. 26	25.0	DEC. 8	29.0
JUNE 1	27.3	SEPT. 21	25.2		

3S-33E-14bb1. F. J. WEBB

FEB. 9	39.1	JULY 27	36.7	NOV. 17	38.1
APR. 6	40.3	AUG. 26	36.0	DEC. 8	38.6
JUNE 1	37.9	SEPT. 21	35.9		
30	37.4	OCT. 22	37.0		

3S-33E-22cd1. G. R. ATWOOD

JAN. 14	41.4	JUNE 1	40.4	AUG. 26	38.6
FEB. 9	41.8	30	38.6	SEPT. 21	38.9
APR. 6	42.9	JULY 27	39.1	OCT. 22	39.8

3S-34E-80A1. GLEN CROUCH

DAY	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE
1	23.6	24.7	25.0	25.4	25.5	19.6
2	23.8	24.7	25.1	25.5	25.6	19.6
3	23.8	24.7	25.1	25.4	25.4	19.3
4	24.0	24.7	25.2	25.4	25.4	18.9
5	24.0	24.7	25.2	25.4	25.3	19.0
6	23.9	24.8	25.1	25.5	25.2	19.0
7	23.8	24.8	25.2	25.6	25.0	18.8
8	24.0	24.8	25.1	25.5	24.7	18.7
9	24.1	24.6	25.0	25.5	24.4	18.9
10	24.1	24.6	24.9	25.6	24.1	19.3
11	24.0	24.7	25.0	25.6	23.8	19.5
12	24.0	24.6	25.2	25.6	23.5	19.4
13	24.0	24.6	25.3	25.5	23.3	19.5
14	23.9	24.6	25.3	25.5	23.2	19.5
15	24.0	24.8	25.2	25.7	22.8	19.2
16	24.1	24.8	25.1	25.7	22.6	19.2
17	23.9	24.7	25.0	25.6	22.2	19.4
18	24.1	24.8	25.3	25.5	21.8	19.3
19	24.1	25.0	25.2	25.5	21.5	19.1
20	24.2	24.9	25.2	25.6	21.3	19.0
21	24.4	24.9	25.3	25.6	21.0	18.9
22	24.3	25.1	25.3	25.6	20.7	18.7
23	24.1	25.1	25.1	25.5	20.6	18.6
24	24.2	24.9	25.1	25.5	20.2	18.6
25	24.3	24.9	25.3	25.5	19.8	18.5
26	24.4	24.8	25.4	25.5	19.9	18.3
27	24.5	25.1	25.4	25.4	20.1	18.3
28	24.5	25.0	25.3	25.4	20.0	18.2
29	24.5		25.3	25.4	19.7	18.1
30	24.7		25.4	25.3	19.9	
31	24.7		25.4		19.9	

3S-34E-88A1. GLEN CROUCH -- CONTINUED

DAY	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1		17.2	17.1	17.0	20.5	23.2
2		16.9	17.1	17.0	20.5	23.2
3		16.8	17.1	17.1	20.8	23.2
4		16.9	17.0	17.0	21.0	23.3
5		17.1	17.1	17.0	21.1	23.4
6		17.1	17.2	16.8	21.1	23.3
7		17.0	17.0	16.9	21.2	23.4
8		16.9	17.1	17.1	21.4	23.5
9		16.8	17.1	17.2	21.5	23.4
10		16.9	17.1	17.3	21.7	23.4
11		16.9	17.0	17.4	21.6	23.7
12		16.8	17.0	17.9	21.8	23.7
13		16.9	17.1	18.2	22.0	23.6
14		16.9	16.9	18.6	21.9	23.7
15		17.0	16.9	18.6	21.9	23.5
16		16.9	17.0	18.6	22.1	23.9
17		16.9	17.1	18.8	22.4	24.0
18		16.9	17.1	19.0	22.5	24.0
19		16.8	17.0	19.0	22.5	24.0
20		16.9	17.2	19.4	22.6	24.0
21		16.9	17.1	19.5	22.7	24.0
22		16.9	17.0	19.6	22.7	23.9
23		16.8	17.3	19.6	22.8	23.9
24		16.7	17.3	19.8	22.8	23.8
25		16.7	17.3	20.0	22.8	23.9
25		17.0	17.2	20.3	23.0	24.0
27	17.1	17.0	17.0	20.3	22.8	24.3
28	17.1	17.2	16.8	20.3	23.0	24.3
29	17.1	17.1	16.9	20.3	22.9	24.1
30	17.3	16.9	16.9	20.4	23.1	24.1
31	17.2	16.9		20.4		23.9

3S-34E-19cd1. HERB STROW

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 14	45.8	JUNE 30	42.0	OCT. 22	43.8
FEB. 9	46.3	JULY 27	42.1	NOV. 17	45.1
APR. 6	46.8	AUG. 26	41.2	DEC. 8	46.4
JUNE 1	43.1	SEPT. 21	41.8		

4S-31E-22cd1. SAM HEANY

JAN. 13	34.7	JUNE 29	35.1	OCT. 22	33.9
FEB. 9	35.2	JULY 28	34.2	NOV. 17	34.4
APR. 6	36.3	AUG. 26	33.7	DEC. 9	34.6
JUNE 1	35.5	SEPT. 22	33.6		

4S-31E-368a1. ELDRIDGE TEST WELL

DATE	WATER LEVEL	ALTI- TUDE	DATE	WATER LEVEL	ALTI- TUDE	DATE	WATER LEVEL	ALTI- TUDE
JAN. 13	DRY		JULY 28	0.6	4,406	NOV. 17	4.1	4,402
FEB. 9	DRY		AUG. 26	0.3	4,406	DEC. 9	5.3	4,401
JUNE 1	2.6	4,404	SEPT. 22	0.6	4,406			
29	1.9	4,404	OCT. 21	1.6	4,405			

4S-32E-9cd1. BOB CHANDLER

MAR. 10	35.3	4,403	JULY 28	32.6	4,406	NOV. 17	36.0	4,403
APR. 6	35.1	4,404	AUG. 26	31.0	4,408	DEC. 8	33.6	4,405
JUNE 1	32.4	4,406	SEPT. 22	30.2	4,408			
29	31.9	4,407	OCT. 22	32.8	4,406			

4S-32E-12DD1. ROBERT HOUGHLAND

DAY	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE
1	19.9	20.7	20.7	21.0	20.1	17.4
2	20.0	20.6	20.8	21.1	19.9	17.5
3	19.9	20.6	20.8	21.1	19.7	17.4
4	20.1	20.6	20.8	21.1	19.6	17.1
5	20.1	20.6	20.9	21.1	19.6	17.1
6	20.1	20.7	20.8	21.1	19.6	17.1
7	20.0	20.7	20.9	21.2	19.5	17.0
8	20.1	20.7	20.8	21.1	19.3	16.8
9	20.2	20.6	20.7	21.1	19.2	16.8
10	20.2	20.5	20.6	21.2	19.1	16.7
11	20.2	20.6	20.7	21.2	19.0	16.7
12	20.1	20.5	20.8	21.2	18.9	16.5
13	20.1	20.4	20.9	21.1	18.7	16.4
14	20.1	20.4	20.9	21.1	18.6	16.3
15	20.1	20.6	20.9	21.2	18.5	16.2
16	20.2	20.6	20.8	21.2	18.4	16.3
17	20.0	20.6	20.7	21.1	18.2	16.4
18	20.1	20.6	20.9	21.1	18.1	16.6
19	20.1	20.8	20.9	21.0	17.9	16.5
20	20.2	20.7	20.8	21.1	17.9	16.6
21	20.3	20.7	20.9	21.1	17.9	16.8
22	20.3	20.8	20.9	20.9	17.7	16.7
23	20.2	20.8	20.8	20.8	17.7	16.7
24	20.2	20.7	20.8	20.8	17.4	16.7
25	20.3	20.7	20.9	20.7	17.3	16.6
26	20.4	20.6	21.0	20.7	17.4	16.6
27	20.4	20.8	21.0	20.5	17.5	16.5
28	20.5	20.7	20.9	20.4	17.5	16.5
29	20.5		20.9	20.2	17.2	16.5
30	20.6		21.0	20.1	17.4	16.4
31	20.6		21.0		17.4	

4S-32E-12001. ROBERT HOUGHLAND -- CONTINUED

DAY	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	16.4	15.9	15.7	16.1	18.2	19.6
2	16.5	15.8	15.7	16.1	18.2	19.6
3	16.5	15.8	15.6	16.3	18.3	19.6
4	16.5	15.6	15.6	16.4	18.4	19.6
5	16.5	15.6	15.7	16.5	18.5	19.7
6	16.7	15.7	15.6	16.5	18.5	19.6
7	16.7	15.7	15.6	16.5	18.5	19.6
8	16.7	15.7	15.6	16.6	18.6	19.8
9	16.7	15.7	15.6	16.6	18.7	19.7
10	16.7	15.8	15.5	16.7	18.7	19.7
11	16.7	15.8	15.4	16.6	18.7	19.9
12	16.7	15.6	15.5	16.8	18.7	19.9
13	16.6	15.5	15.4	16.9	18.9	19.8
14	16.6	15.5	15.3	17.2	18.8	20.0
15	16.6	15.4	15.2	17.2	18.8	19.8
16	16.6	15.4	15.3	17.1	18.9	20.0
17	16.6	15.5	15.5	17.1	19.1	20.1
18	16.6	15.6	15.7	17.2	19.1	20.2
19	16.3	15.5	15.6	17.2	19.1	20.2
20	16.3	15.5	15.8	17.4	19.2	20.2
21	16.2	15.6	15.8	17.5	19.3	20.1
22	16.2	15.6	15.6	17.5	19.3	20.1
23	16.2	15.6	15.8	17.5	19.3	20.1
24	16.2	15.6	15.9	17.5	19.4	20.0
25	16.2	15.6	15.9	17.6	19.3	20.0
26	16.2	15.7	15.9	17.7	19.4	20.1
27	16.2	15.6	15.8	17.9	19.3	20.3
28	16.1	15.7	15.9	18.0	19.4	20.3
29	16.0	15.7	16.0	18.0	19.3	20.2
30	16.0	15.7	16.0	18.1	19.5	20.2
31	15.9	15.7		18.1		20.0

4S-32E-24CB1. CRYSTAL SPRINGS TROUT FARM

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 13	5.0	JUNE 1	4.3	SEPT. 22	3.6
FEB. 9	5.2	29	4.3	OCT. 22	4.4
MAR. 10	5.2	JULY 28	4.3	NOV. 17	4.9
APR. 6	5.5	AUG. 26	3.8	DEC. 8	5.4

4S-32E-28CG2. O. E. NELSON

DATE	WATER LEVEL	ALTI- TUDE	DATE	WATER LEVEL	ALTI- TUDE	DATE	WATER LEVEL	ALTI- TUDE
JAN. 13	7.8	4,362	JULY 28	2.1	4,368	NOV. 17	7.3	4,363
FEB. 9	DRY		AUG. 26	3.6	4,366	DEC. 9	7.9	4,362
APR. 6	DRY		SEPT. 22	0.4	4,370			
JUNE 1	3.0	4,367	OCT. 21	6.4	4,364			

4S-33E-18C1. HERBERT CRUMLEY

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JUNE 1	24.4	AUG. 26	23.7	NOV. 17	26.4
29	24.0	SEPT. 21	23.6	DEC. 8	27.0
JULY 27	24.0	OCT. 22	25.2		

4S-33E-15BB2. ART VAN ORDEN

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 14	30.2	JUNE 1	30.8	SEPT. 21	26.5
FEB. 9	31.2	29	30.3	OCT. 22	27.1
MAR. 10	32.0	JULY 27	30.4	NOV. 17	29.2
APR. 6	32.8	AUG. 26	29.5	DEC. 8	29.8

4S-33E-22CBI. JOSEPHINE SHELMAN

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 14	24.4	JULY 27	26.8	NOV. 17	23.8
FEB. 9	24.6	AUG. 26	26.8	DEC. 8	24.2
APR. 6	25.0	SEPT. 21	25.2		
JUNE 1	22.6	OCT. 22	23.2		

5S-31E-4Dai. ERNEST UNDERWOOD

JAN. 13	46.4	JUNE 1	48.7	SEPT. 22	44.9
FEB. 9	46.8	29	48.2	OCT. 21	45.4
MAR. 10	47.0	JULY 28	45.4	NOV. 17	46.1
APR. 6	48.5	AUG. 26	44.9	DEC. 9	47.1

5S-31E-19Ddi. DON DANCLIFF

DATE	WATER LEVEL	ALTI- TUDE	DATE	WATER LEVEL	ALTI- TUDE	DATE	WATER LEVEL	ALTI- TUDE
JAN. 13	40.4	4,387	JUNE 29	39.7	4,387	OCT. 21	39.4	4,388
FEB. 9	40.7	4,387	JULY 28	39.5	4,388	NOV. 17	41.0	4,386
MAR. 10	40.7	4,387	AUG. 26	39.0	4,388	DEC. 9	42.4	4,385
JUNE 1	40.5	4,387	SEPT. 21	39.0	4,388			

5S-31E-27a01. H. L. LOWE

DAY	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE
1					23.7	18.2
2					23.6	18.2
3					23.4	17.9
4						17.7
5					23.3	17.7
6				24.7	23.3	17.7
7				24.9	23.1	17.6
8				24.8	22.9	17.4
9				24.8	22.6	17.4
10		22.8		24.9	22.5	17.3
11		22.9		25.0	22.3	17.2
12		22.8		24.9	22.0	16.9
13		22.8		24.8	21.8	16.9
14	21.4	22.9		24.9	21.6	16.9
15	21.5	23.1		24.9	21.3	16.9
16	21.6	23.1		25.0	21.2	
17	21.5	23.0		25.0	21.0	
18	21.6	23.1		25.0	20.7	
19	21.7	23.4		24.8	20.5	
20		23.3		24.8	20.3	
21		23.2		24.8	20.1	
22		23.5		24.8	19.9	
23		23.4		24.7	19.7	
24		23.3		24.6	19.3	
25		23.3		24.4	19.0	
26		23.4		24.2	18.9	
27				24.1	18.9	
28				23.8	18.7	
29				23.6	18.3	16.7
30				23.7	18.5	16.2
31					18.3	

5S-31E-27A81. H. L. LOWE -- CONTINUED

DAY	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	16.1	13.3	11.9	12.5	15.3	18.4
2	16.0	13.1	11.9	12.6	15.4	18.4
3	15.9	13.2	11.8	12.9	15.6	18.4
4	15.9	13.2	11.7	13.0	15.8	18.6
5	15.9	13.2	11.7	13.1	15.9	18.7
6	15.8	13.0	11.7	13.2	15.9	18.6
7	15.8	12.9	11.5	13.3	16.0	18.8
8	15.6	12.8	11.5	13.5	16.2	18.9
9	15.4	12.7	11.4	13.5	16.3	18.8
10	15.3	12.7	11.1	13.5	16.4	18.9
11	15.3	12.8	11.0	13.4	16.4	19.2
12	15.2	12.6	11.0	13.5	16.6	19.3
13	15.1	12.5	11.0	13.6	16.8	19.1
14	15.0	12.3	10.7	13.8	16.7	19.4
15	14.8	12.2	10.8	13.7	16.8	19.2
16	14.7	12.0	10.8	13.4	17.0	19.6
17	14.6	12.0	11.1	13.4	17.2	19.7
18	14.4	11.8	11.4	13.4	17.3	19.8
19	14.2	11.8	11.4	13.3	17.4	19.8
20	14.0		11.6	13.7	17.5	19.8
21	14.0		11.6	13.8	17.6	19.8
22	13.9		11.5	13.9	17.7	19.8
23	13.7		11.8	14.0	17.8	19.8
24	13.6		11.9	14.2	17.8	19.8
25	13.5		12.0	14.4	17.8	20.0
26	13.4	11.7	12.0	14.7	18.0	20.1
27	13.4	11.8	12.0	14.8	17.9	20.4
28	13.4	11.9	12.1	14.9	18.0	20.3
29	13.2	12.0	12.3	15.0	18.0	20.2
30	13.3	11.9	12.4	15.1	18.3	20.2
31	13.4	12.0		15.2		20.2

5S-31E-338d1. H. L. LOWE

DATE	WATER LEVEL	ALTI- TUDE	DATE	WATER LEVEL	ALTI- TUDE	DATE	WATER LEVEL	ALTI- TUDE
JAN. 13	16.6	4,384	JUNE 1	10.7	4,390	SEPT. 22	12.0	4,388
FEB. 9	16.9	4,384	29	9.8	4,391	OCT. 21	13.1	4,387
MAR. 10	17.3	4,383	JULY 28	10.7	4,390	NOV. 17	15.2	4,385
APR. 6	17.6	4,383	AUG. 25	10.2	4,391	DEC. 9	16.0	4,384

5S-31E-35AA1. MARIL BECK

JAN. 13	22.7	4,369	JUNE 1	23.2	4,369	SEPT. 22	21.8	4,370
FEB. 9	23.4	4,368	29	24.1	4,368	OCT. 21	20.6	4,371
MAR. 10	23.5	4,368	JULY 28	20.8	4,371	NOV. 17	20.6	4,371
APR. 6	25.2	4,367	AUG. 25	20.3	4,372	DEC. 9	21.0	4,371

5S-32E-600d1. DAYTON MARTIN

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 13	5.3	JUNE 1	1.6	SEPT. 22	3.6
FEB. 9	4.1	29	1.6	OCT. 21	4.6
MAR. 10	4.3	JULY 28	2.1	NOV. 17	5.2
APR. 6	5.4	AUG. 26	3.0	DEC. 9	5.5

5S-32E-7CC1. ABERDEEN-SPRINGFIELD CANAL CO.

DATE	WATER LEVEL	ALTI- TUDE	DATE	WATER LEVEL	ALTI- TUDE	DATE	WATER LEVEL	ALTI- TUDE
JAN. 13	2.4	4,375	JUNE 1	2.5	4,375	SEPT. 22	2.6	4,374
FEB. 9	2.5	4,375	29	2.1	4,375	OCT. 21	2.5	4,375
MAR. 10	2.4	4,375	JULY 28	2.5	4,375	NOV. 17	2.5	4,375
APR. 6	DRY		AUG. 26	2.5	4,375	DEC. 9	2.5	4,375

6S-31E-7B1. AIRPORT

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 13	79.4	JUNE 1	79.8	SEPT. 22	78.6
FEB. 9	79.6	29	79.8	OCT. 21	78.7
MAR. 10	80.3	JULY 28	79.1	NOV. 17	79.2
APR. 6	80.7	AUG. 25	78.6	DEC. 9	79.2

6S-31E-11B1. ED. PHILIPS

MAR. 10	33.0	JULY 28	25.9	NOV. 17	29.4
APR. 6	33.4	AUG. 25	24.4	DEC. 9	30.7
JUNE 1	30.1	SEPT. 22	25.5		
29	28.8	OCT. 21	27.5		

6S-31E-16BA1. ABERDEEN-SPRINGFIELD CANAL CO.

DAY	JANUARY		FEBRUARY		MARCH	
	WATER LEVEL	ALTI- TUDE	WATER LEVEL	ALTI- TUDE	WATER LEVEL	ALTI- TUDE
1	15.0	4,379	15.6	4,378	15.8	4,378
2	15.1	4,378	15.6	4,378	15.9	4,378
3	15.1	4,378	15.6	4,378	15.8	4,378
4	15.1	4,378	15.6	4,378	15.9	4,378
5	15.1	4,378	15.6	4,378	15.8	4,378
6	15.1	4,378	15.6	4,378	15.8	4,378
7	15.1	4,378	15.6	4,378	15.9	4,378
8	15.2	4,378	15.7	4,378	15.9	4,378
9	15.2	4,378	15.6	4,378	15.8	4,378
10	15.2	4,378	15.6	4,378	15.8	4,378
11	15.2	4,378	15.6	4,378	15.9	4,379
12	15.2	4,378	15.6	4,378	16.0	4,378
13	15.2	4,378	15.6	4,378	15.9	4,378
14	15.3	4,378	15.7	4,378	15.9	4,378
15	15.3	4,378	15.7	4,378	15.9	4,378
16	15.3	4,378	15.7	4,378	15.9	4,378
17	15.3	4,378	15.6	4,378	15.9	4,378
18	15.4	4,378	15.7	4,378	16.0	4,378
19	15.3	4,378	15.8	4,378	16.0	4,378
20	15.4	4,378	15.7	4,378	16.0	4,378
21	15.5	4,378	15.7	4,378	16.0	4,378
22	15.4	4,378	15.8	4,378	16.0	4,378
23	15.4	4,378	15.8	4,378	15.9	4,378
24	15.4	4,378	15.7	4,378	16.0	4,378
25	15.5	4,378	15.8	4,378	16.0	4,378
26	15.5	4,378	15.7	4,378	16.0	4,378
27	15.5	4,378	15.9	4,378	16.0	4,378
28	15.5	4,378	15.8	4,378	16.0	4,378
29	15.6	4,378			16.0	4,378
30	15.6	4,378			16.1	4,377
31	15.6	4,378			16.0	4,378

6S-31E-168A1. ABERDEEN-SPRINGFIELD CANAL CO.--CONTINUED

DAY	APRIL		MAY		JUNE	
	WATER LEVEL	ALTI- TUDE	WATER LEVEL	ALTI- TUDE	WATER LEVEL	ALTI- TUDE
1	16.1	4,377	15.8	4,378	13.6	4,380
2	16.1	4,377	15.7	4,378	13.5	4,380
3	16.1	4,377	15.6	4,378	13.4	4,380
4	16.1	4,377	15.6	4,378	13.3	4,380
5	16.1	4,377	15.5	4,378	13.3	4,380
6	16.1	4,377	15.4	4,378	13.3	4,380
7	16.1	4,377	15.3	4,378	13.3	4,380
8	16.1	4,377	15.2	4,378	13.2	4,380
9	16.1	4,377	15.2	4,378	13.2	4,380
10	16.2	4,377	15.2	4,378	13.2	4,380
11	16.2	4,377	15.0	4,379	13.1	4,380
12	16.2	4,377	14.9	4,379	13.1	4,380
13	16.1	4,377	14.9	4,379	13.0	4,380
14	16.1	4,377	14.8	4,379	13.1	4,380
15	16.2	4,377	14.8	4,379	13.0	4,380
16	16.2	4,377	14.7	4,379	13.1	4,380
17	16.1	4,377	14.6	4,379	13.2	4,380
18	16.1	4,377	14.6	4,379	13.1	4,380
19	16.1	4,377	14.5	4,379	13.1	4,380
20	16.2	4,377	14.4	4,379	13.1	4,380
21	16.2	4,377	14.4	4,379	13.1	4,380
22	16.2	4,377	14.4	4,379	13.1	4,380
23	16.2	4,377	14.2	4,379	13.2	4,380
24	16.2	4,377	14.1	4,379	13.2	4,380
25	16.2	4,377	14.0	4,380	13.2	4,380
26	16.2	4,377	14.0	4,380	13.2	4,380
27	16.1	4,377	14.0	4,380	13.2	4,380
28	16.0	4,378	13.9	4,380	13.2	4,380
29	15.9	4,378	13.7	4,380	13.1	4,380
30	15.8	4,378	13.8	4,380	12.9	4,381
31			13.7	4,380		

6S-31E-16BA1. ABERDEEN-SPRINGFIELD CANAL CO. -- CONTINUED

DAY	JULY		AUGUST		SEPTEMBER	
	WATER LEVEL	ALTI- TUDE	WATER LEVEL	ALTI- TUDE	WATER LEVEL	ALTI- TUDE
1	13.0	4,381	12.0	4,382	11.5	4,382
2	13.0	4,381	12.0	4,382	11.5	4,382
3	12.9	4,381	12.0	4,382	11.4	4,382
4	12.9	4,381	12.0	4,382	11.4	4,382
5	12.9	4,381	12.1	4,381	11.4	4,382
6	12.9	4,381	12.1	4,381	11.4	4,382
7	12.9	4,381	12.0	4,382	11.3	4,382
8	12.8	4,381	12.0	4,382	11.3	4,382
9	12.8	4,381	11.9	4,382	11.3	4,382
10	12.8	4,381	11.9	4,382	11.2	4,382
11	12.8	4,381	11.9	4,382	11.2	4,382
12	12.7	4,381	11.9	4,382	11.3	4,382
13	12.7	4,381	11.9	4,382	11.4	4,382
14	12.6	4,381	11.8	4,382	11.4	4,382
15	12.5	4,381	11.8	4,382	11.3	4,382
16	12.5	4,381	11.8	4,382	11.4	4,382
17	12.4	4,381	11.8	4,382	11.5	4,382
18	12.4	4,381	11.8	4,382	11.6	4,382
19	12.3	4,381	11.7	4,382	11.7	4,382
20	12.2	4,381	11.7	4,382	11.9	4,382
21	12.3	4,381	11.8	4,382	11.9	4,382
22	12.3	4,381	11.8	4,382	11.9	4,382
23	12.1	4,381	11.7	4,382	12.1	4,381
24	12.1	4,381	11.7	4,382	12.1	4,381
25	12.1	4,381	11.6	4,382	12.1	4,381
26	12.2	4,381	11.7	4,382	12.1	4,381
27	12.2	4,381	11.7	4,382	12.1	4,381
28	12.2	4,381	11.7	4,382	12.2	4,381
29	12.1	4,381	11.7	4,382	12.2	4,381
30	12.1	4,381	11.6	4,382	12.2	4,381
31	12.0	4,382	11.6	4,382		

6S-31E-16BA1. ABERDEEN-SPRINGFIELD CANAL CO. -- CONTINUED

DAY	OCTOBER		NOVEMBER		DECEMBER	
	WATER LEVEL	ALTI- TUDE	WATER LEVEL	ALTI- TUDE	WATER LEVEL	ALTI- TUDE
1	12.3	4,381	13.7	4,380	14.8	4,379
2	12.3	4,381	13.8	4,380	14.8	4,379
3	12.3	4,381	13.9	4,380	14.8	4,379
4	12.3	4,381	13.9	4,380	14.9	4,379
5	12.4	4,381	13.9	4,380	14.9	4,379
6	12.4	4,381	14.0	4,380	14.9	4,379
7	12.4	4,381	14.0	4,380	15.0	4,379
8	12.5	4,381	14.1	4,379	15.0	4,379
9	12.5	4,381	14.1	4,379	15.0	4,379
10	12.5	4,381	14.2	4,379	15.1	4,378
11	12.5	4,381	14.2	4,379	15.2	4,378
12	12.7	4,381	14.2	4,379	15.1	4,378
13	12.8	4,381	14.3	4,379	15.1	4,378
14	12.9	4,381	14.2	4,379	15.2	4,378
15	12.8	4,381	14.3	4,379	15.1	4,378
16	12.8	4,381	14.4	4,379	15.3	4,378
17	12.9	4,381	14.4	4,379	15.3	4,378
18	12.9	4,381	14.4	4,379	15.3	4,378
19	12.9	4,381	14.4	4,379	15.3	4,378
20			14.5	4,379	15.3	4,378
21	13.1	4,380	14.5	4,379	15.3	4,378
22	13.1	4,380	14.5	4,379	15.3	4,378
23	13.2	4,380	14.6	4,379	15.4	4,378
24	13.3	4,380	14.6	4,379	15.4	4,378
25	13.4	4,380	14.6	4,379	15.4	4,378
26	13.5	4,380	14.7	4,379	15.4	4,378
27	13.5	4,380	14.7	4,379	15.5	4,378
28	13.5	4,380	14.7	4,379	15.4	4,378
29	13.6	4,380	14.7	4,379	15.4	4,378
30	13.6	4,380	14.8	4,379	15.5	4,378
31	13.7	4,380			15.5	4,378

6S-3IE-30dat. BARTHOLAMA

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 13	49.8	JUNE 1	46.1	SEPT. 22	42.9
FEB. 9	50.3	29	45.0	OCT. 21	45.2
MAR. 10	50.6	JULY 28	42.9	NOV. 17	47.0
APR. 6	51.2	AUG. 25	42.5	DEC. 9	48.0

POWER COUNTY

6S-33E-20AB1. EDNA LAVATTA KUTCH ^{1/}

DAY	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1		34.1		33.1	33.6	33.6
2		34.1	33.5	33.2	33.5	33.6
3		34.0	33.5	33.3	33.6	33.6
4		34.0	33.4	33.4	33.6	33.6
5		33.9	33.5	33.4	33.6	33.6
6		33.8	33.5	33.4	33.6	33.6
7	33.8	33.8	33.6	33.3	33.6	33.6
8	33.9	33.8	33.5	33.3	33.5	33.6
9	34.0	33.8	33.6	33.4	33.5	33.7
10	34.0	33.9	33.5	33.4	33.5	33.6
11	34.0	33.8	33.6	33.4	33.5	33.6
12	34.0	33.8	33.6	33.4	33.5	33.5
13	33.9	33.8	33.4	33.4	33.5	33.6
14	33.8	33.8	33.4	33.4	33.5	33.5
15	33.8	33.8	33.4	33.5	33.5	33.5
16	33.8	33.8	33.4		33.5	33.5
17	34.0	33.8	33.4		33.5	33.6
18	34.0	33.8	33.4		33.5	33.6
19	34.0	33.8	33.4		33.4	33.6
20	34.1	33.8	33.6		33.5	33.6
21	34.0	33.7	33.6		33.5	33.6
22	33.8	33.6	33.6		33.6	33.4
23	33.8		33.6		33.5	33.4
24	34.0		33.7		33.5	33.4
25	34.0		33.7		33.6	33.3
26	34.0		33.6		33.6	33.3
27	34.0		33.4		33.6	33.2
28	33.8		33.4	33.5	33.6	33.2
29	34.0		33.3	33.6	33.6	33.3
30	34.0		33.1	33.6	33.5	33.2
31				33.6	33.6	

^{1/} WATER LEVEL NOT PREVIOUSLY REPORTED: NOV. 24, 1953, 33.2.

6S-33E-20aB1. EDNA LAVATT KUTCH -- CONTINUED

DAY	OCTOBER	NOVEMBER	DECEMBER
1	33.2	33.2	33.4
2	33.2	33.1	33.4
3	33.2	33.2	33.4
4	33.2	33.2	33.4
5	33.5	33.2	33.5
6	33.4	33.2	33.4
7	33.4	33.2	33.4
8	33.4	33.2	33.5
9	33.3	33.2	33.4
10	33.2	33.3	33.4
11	33.1	33.2	33.5
12	33.3	33.2	33.5
13	33.2	33.3	33.4
14	33.3	33.2	33.5
15	33.3	33.2	33.4
16	33.2	33.2	33.6
17	33.2	33.4	33.6
18	33.3	33.4	33.6
19	33.2	33.3	33.6
20	33.3	33.4	33.5
21	33.2	33.4	33.5
22	33.2	33.3	33.5
23	33.2	33.4	33.5
24	33.2	33.4	33.5
25	33.1	33.3	33.5
26	33.2	33.4	33.6
27	33.2	33.3	33.6
28	33.2	33.4	33.6
29	33.2	33.3	33.6
30	33.2	33.4	33.5
31	33.1		33.5

7S-30E-12cat. JESS MEADOWS

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 10	49.7	SEPT. 22	46.2	DEC. 9	49.0
JUNE 1	44.0	OCT. 21	46.7		
AUG. 25	45.9	NOV. 17	48.2		

7S-31E-13cat. PAUL EVANS

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
SEPT. 20, 1950	60.3	INSTALLED RECORDER		DEC. 13, 1952	60.4
OCT. 26	60.2	OCT. 31, 1952	60.2	14	60.4
MAR. 2, 1951	59.9	DEC. 3	60.3	15	60.4
APR. 27	60.1	4	60.3	16	60.5
JUNE 28	59.9	5	60.2	17	60.4
AUG. 30	60.0	6	60.3	18	60.4
OCT. 27	60.2	7	60.3	19	60.4
JAN. 11, 1952	58.7	8	60.3	20	60.3
FEB. 27	59.8	9	60.3	21	60.4
APR. 18	59.7	10	60.3	22	60.4
JUNE 17	59.8	11	60.4		
AUG. 29	60.0	12	60.4		

7S-31E-13061. PAUL EVANS -- CONTINUED

1953	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE
1				60.1		60.0
2				60.1		60.0
3				60.1		60.0
4				60.1		60.0
5				60.0		59.9
6				59.9		59.9
7			60.4	59.9		59.9
8			60.3	60.0		60.0
9			60.2	60.1		60.0
10			60.1	60.1		60.0
11			60.2	60.1		60.1
12			60.2	60.1		60.0
13			60.2	60.0		60.1
14			60.3	60.1		60.0
15			60.2	60.2		60.0
16			60.2	60.0		59.9
17			60.2	59.9		60.0
18		60.2	60.2	60.2		59.9
19		60.3	60.0	60.2		59.9
20		60.3	60.0	60.1		60.0
21	60.4	60.4	60.1	60.0		60.0
22	60.4	60.2	60.2	60.0		60.0
23	60.4	60.2	60.2	60.0		60.0
24	60.4		60.2	60.1	59.9	60.0
25			60.1	60.1	60.0	60.0
26			60.2	60.1	60.0	59.9
27			60.2	60.0	60.0	60.0
28			60.0	59.9	59.9	59.9
29			60.0	60.0	59.9	59.9
30			60.1		60.0	60.0
31			60.1		60.0	

75-37E-13DC1, PAUL EVANS -- CONTINUED

1953 -- CONTINUED

DAY	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	60.0	60.1	60.3	60.3		60.4
2	59.9	60.1	60.3	60.4		60.4
3	59.8	60.1	60.4	60.5		60.4
4	60.0	60.2	60.4	60.4		60.4
5	60.0	60.2	60.3	60.4		60.6
6	60.0	60.2	60.3	60.3	60.4	60.4
7	60.0	60.1	60.3	60.4		60.4
8	60.0	60.1	60.3	60.4	60.6	60.6
9	60.0	60.1	60.3	60.4	60.5	60.6
10	60.0	60.1	60.3	60.3	60.4	60.5
11	60.0	60.2	60.3	60.3	60.5	60.6
12	60.0	60.1	60.3	60.3	60.4	60.6
13	60.0	60.1	60.3	60.4	60.4	60.7
14	60.0	60.1	60.3	60.4	60.4	60.5
15	60.0	60.1	60.2	60.4	60.5	60.5
16	60.0	60.2	60.2	60.4	60.3	60.5
17	60.0	60.2	60.2	60.4	60.4	60.5
18	60.0	60.2	60.4	60.3	60.5	60.5
19	60.0	60.2	60.4	60.4	60.5	60.5
20	60.0	60.2	60.3	60.4	60.4	60.4
21	60.1	60.1	60.3	60.4	60.5	60.5
22	60.1	60.2	60.3	60.5	60.4	60.6
23	60.0	60.2	60.4	60.4	60.4	60.6
24	60.0	60.1	60.4	60.3	60.6	60.6
25	60.0	60.2	60.3	60.5	60.6	60.6
26	60.1	60.2	60.3	60.5	60.5	60.5
27	60.1	60.2	60.3		60.5	60.5
28	60.1	60.2	60.3		60.6	60.4
29	60.1	60.2	60.4		60.6	60.5
30	60.1	60.3	60.4		60.3	60.6
31	60.1	60.3				60.6

7S-13E-130C1. PAUL EVANS — CONTINUED

1954 — CONTINUED

DAY	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	60.3	60.5	60.8	61.0	61.0	61.2
2	60.4	60.5	60.9	60.9	61.0	61.1
3	60.4	60.5	60.8	61.0	61.0	61.0
4	60.4	60.5	60.8	61.0	61.1	61.0
5	60.4	60.5	60.8	61.0	61.1	61.2
6	60.4	60.6	60.8	61.0	61.0	61.1
7	60.4	60.6	60.8	61.0	61.0	61.0
8	60.4	60.6	60.9	61.0	61.0	61.1
9	60.3	60.6	60.8	61.0	61.0	61.1
10	60.3	60.6	60.8	60.9	61.1	61.0
11	60.4	60.6	60.9	60.9	61.0	61.2
12	60.4	60.6	60.9	61.0	61.0	61.2
13	60.4	60.6	60.8	61.1	61.1	61.1
14	60.4	60.6	60.8	61.2	60.9	61.1
15	60.4	60.6	60.8	61.1	60.9	61.0
16	60.4	60.6	60.9	61.0		61.2
17	60.4	60.7	60.9	61.0		61.3
18	60.4	60.7	60.8		61.2	61.3
19	60.4	60.6	60.8		61.2	61.3
20	60.4	60.7	60.9		61.2	61.2
21	60.4	60.7	61.0	61.0	61.2	61.1
22	60.6	60.8	60.9	61.0	61.2	61.1
23	60.5	60.8	61.0	60.9	61.1	61.1
24	60.5	60.7	61.0	60.9	61.1	61.0
25	60.5	60.7	61.0	61.0	61.1	61.0
26	60.5	60.7	61.0	61.1	61.1	61.1
27	60.5	60.7	60.8	61.1	61.0	61.3
28	60.5	60.8	60.8	61.1	61.0	61.2
29	60.5	60.8	60.9	61.0	61.0	61.1
30	60.5	60.9	60.9	61.0	61.0	61.1
31	60.5	60.8		61.0		60.9

7S-31E-13061. PAUL EVANS -- CONTINUED

1954						
DAY	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE
1	60.3	60.6	60.4	60.4	60.4	60.3
2	60.5	60.6	60.5	60.4	60.5	60.4
3	60.4	60.5	60.5	60.4	60.4	60.2
4	60.6	60.5	60.5	60.4	60.3	60.2
5	60.6	60.5	60.5	60.4	60.3	60.2
6	60.5	60.6	60.4	60.4	60.3	60.3
7	60.4	60.6	60.5	60.5	60.3	60.3
8	60.5	60.6	60.4	60.3	60.2	60.2
9	60.5	60.4	60.2	60.3	60.2	60.2
10	60.6	60.3	60.2	60.4	60.3	60.3
11	60.4	60.4	60.3	60.4	60.3	60.3
12	60.4	60.3	60.5	60.4	60.3	60.2
13	60.4	60.3	60.6	60.3	60.3	60.3
14	60.4	60.4	60.5	60.3	60.3	60.3
15	60.4	60.6	60.4	60.4	60.3	60.3
16	60.5	60.5	60.3	60.5	60.3	60.3
17	60.3	60.4	60.2	60.3	60.3	60.3
18	60.4	60.4	60.5	60.2	60.3	60.4
19	60.4	60.6	60.4	60.2	60.3	60.3
20	60.5	60.5	60.4	60.3	60.2	60.3
21	60.6	60.4	60.4	60.4	60.2	60.3
22	60.5	60.6	60.4	60.3	60.3	60.3
23	60.3	60.6	60.3	60.2	60.4	60.3
24	60.4	60.4	60.2	60.2	60.3	60.3
25	60.5	60.4	60.5	60.2	60.2	60.3
26	60.5	60.2	60.5	60.3	60.2	60.3
27	60.6	60.5	60.5	60.2	60.3	60.3
28	60.6	60.5	60.4	60.2	60.3	60.4
29	60.5		60.3	60.3	60.2	60.4
30	60.6		60.4	60.2	60.3	60.3
31	60.6		60.5		60.4	