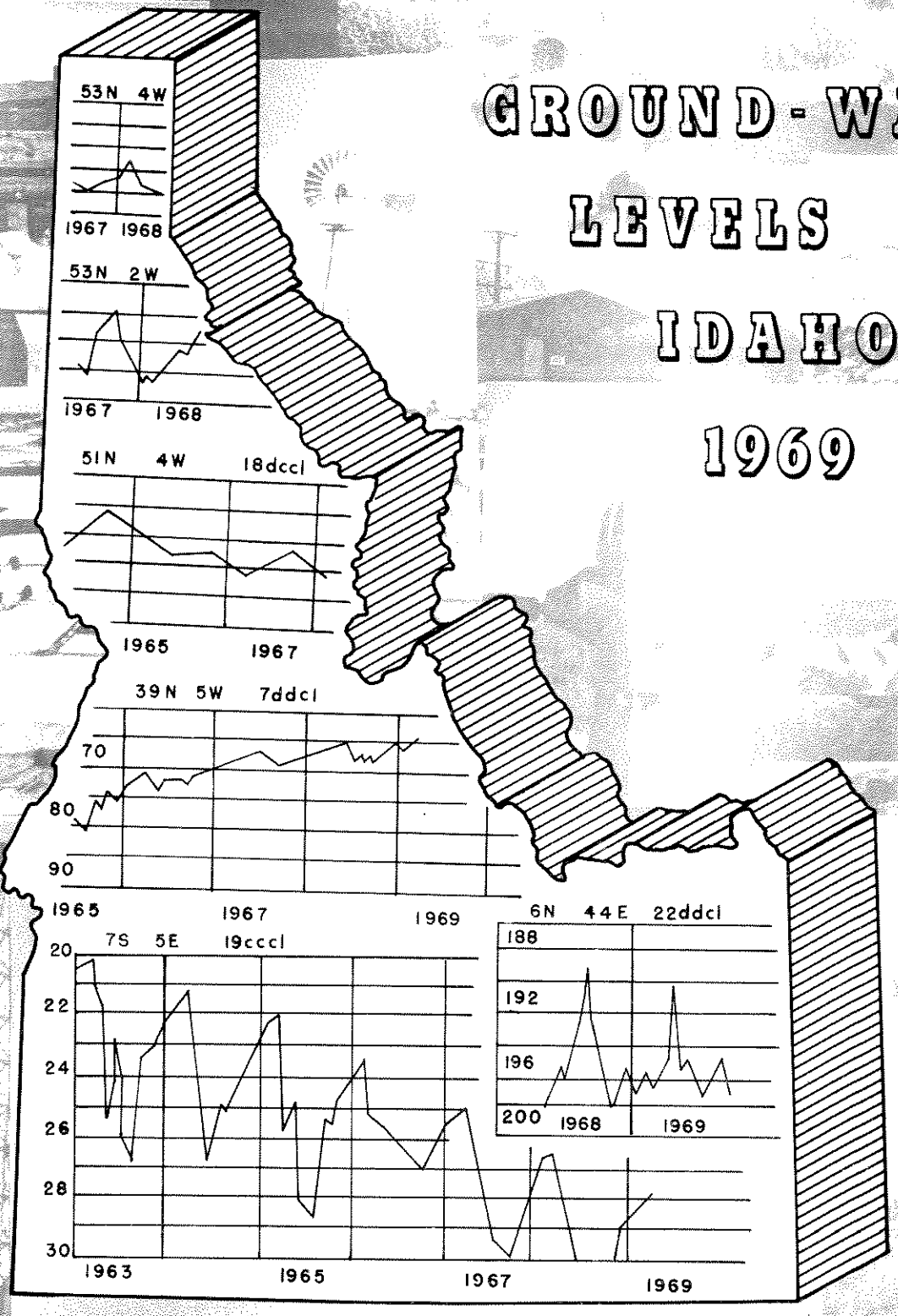
GROUND-WATER LEVELS IN IDAHO 1969



Water Information Bulletin No. 11

Idaho Department of Reclamation

July 1969

WATER INFORMATION BULLETIN NO. 11

GROUND-WATER LEVELS IN IDAHO, 1969

by

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United States Geological Survey

Prepared by the United States Geological Survey

in Cooperation with

The Idaho Department of Reclamation

Published by

Idaho Department of Reclamation

R. Keith Higginson

State Reclamation Engineer

July 1969

INTRODUCTION

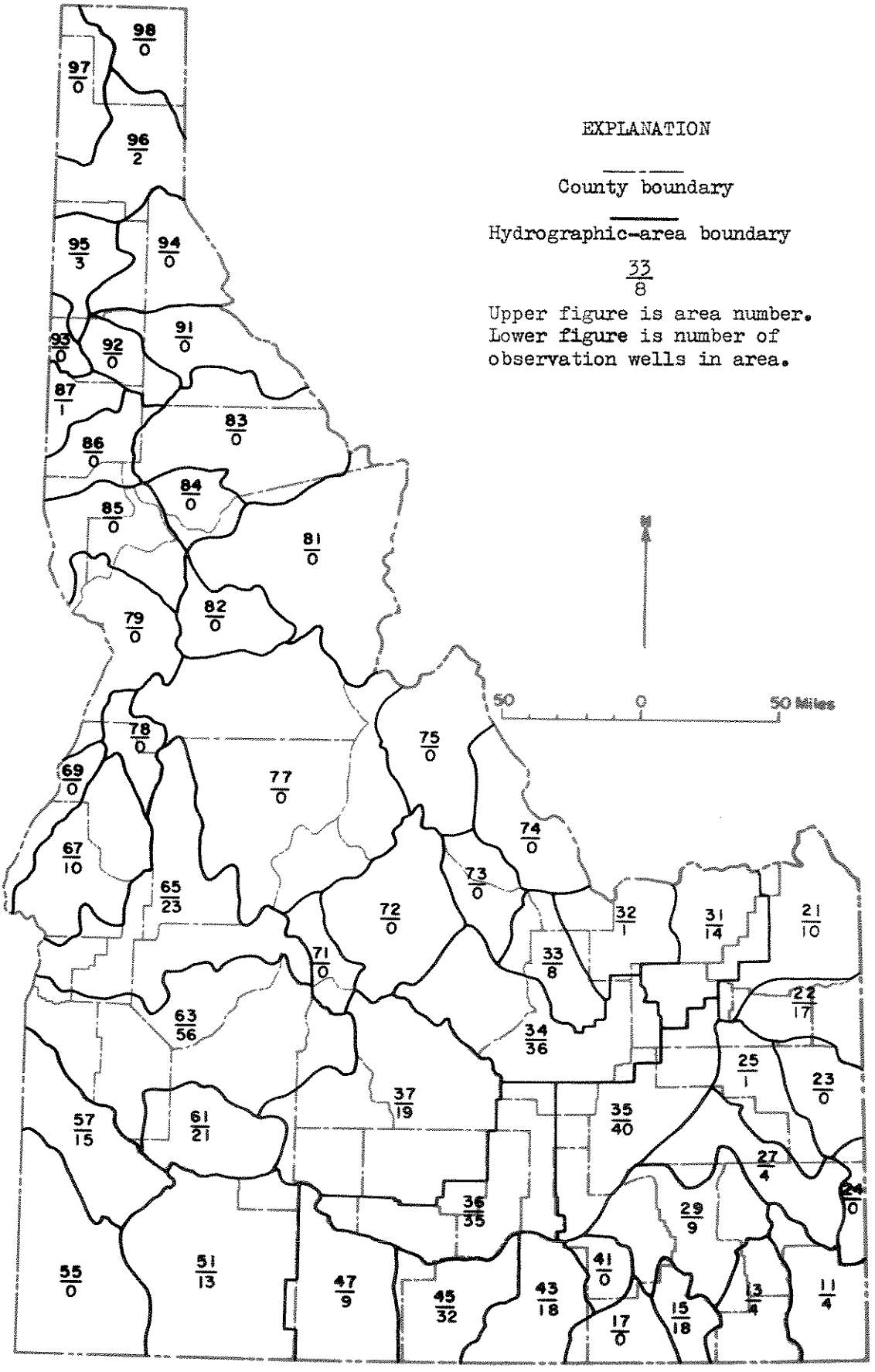
Ground-water levels in Idaho, as measured in wells, vary considerably depending on the geographic location of the well, the aquifer from which the well produces water, the quantity and rate of withdrawal from or in the vicinity of the well, and the time of year when water-level measurements are made. Long-term declines or rises in ground-water levels may result from climatic changes or changes in quantities pumped per unit of time.

An observation-well network designed to monitor changes in ground-water levels in 423 selected wells distributed throughout Idaho is being maintained by the U. S. Geological Survey in cooperation with the Idaho Department of Reclamation. All water levels measured by the U. S. Geological Survey are reported to the hundredths of a foot, some measurements made by the other agencies are reported to the nearest foot or tenths of a foot. The data collected are for use by well owners, water users, water managers, and other interested parties.

The purpose of this annual report is to present maps showing the location of all network wells in Idaho, the water levels measured in those wells during the spring of 1969, water-level changes occurring in the wells between the spring of 1968 and the spring of 1969, and hydrographs representative of water-level trends.

Water-level measurements for periods of record not given in this report are available from the U. S. Geological Survey and the Idaho Department of Reclamation in Boise, Idaho.

A list of reports released by the U. S. Geological Survey and the Idaho Department of Reclamation is included at the end of this report (pages 68-75).



Map of Idaho showing areas used in this report

A reference number (1-93) assigned to these reports is shown before each listing. These same reference numbers are shown under the title of each area map to indicate reports describing some aspect of the water resources of that area except that reports containing data applicable to the state as a whole are not referenced to specific areas.

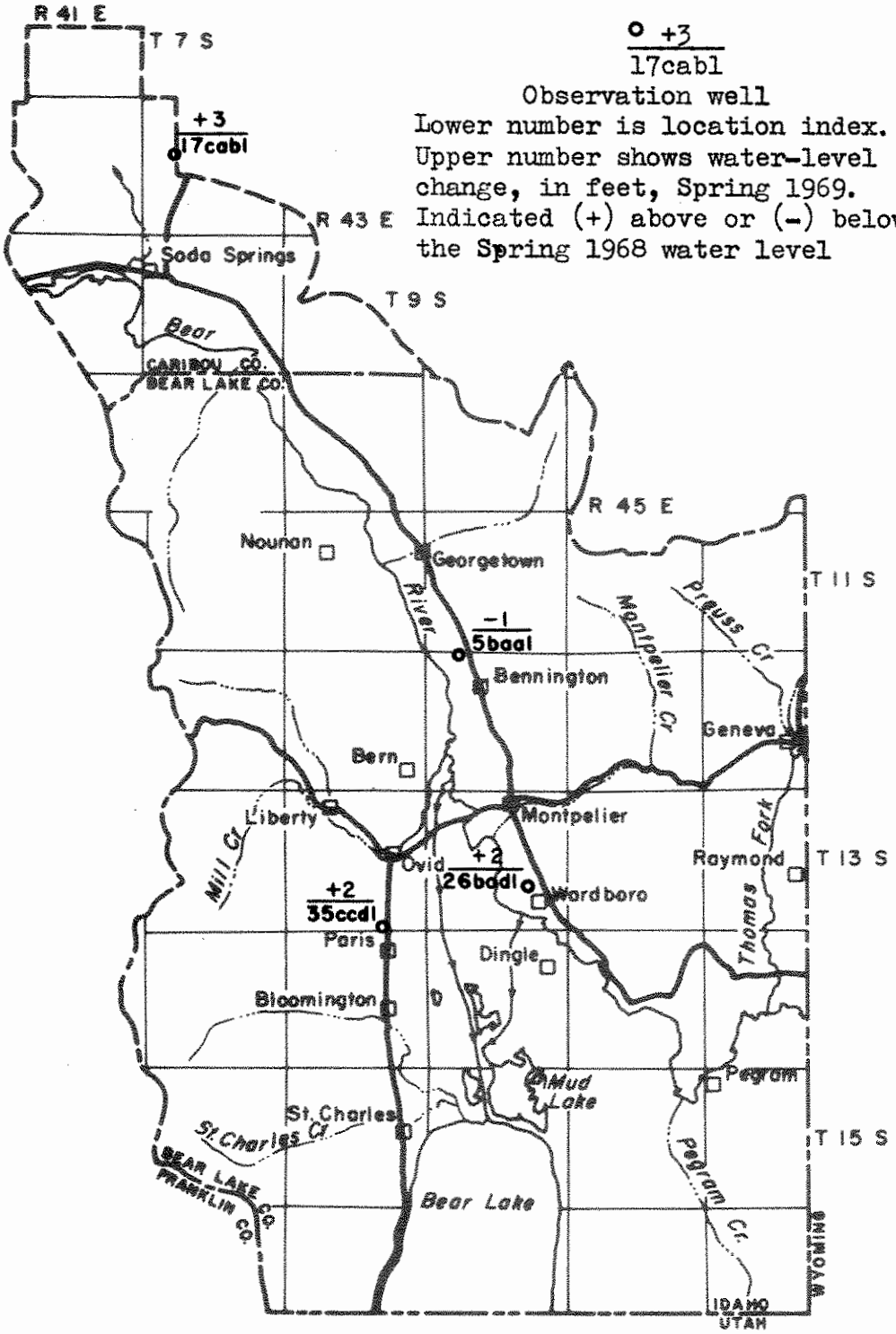
To facilitate presentation of the water-level contained in this report, the state is divided into the small areas shown on page 4. These are the same areas used by the Idaho Department of Reclamation for administration of water rights. Those areas containing observation wells are listed below:

Area	Page
11-Bear River above Alexander	6
13-Bear River-Alexander to State Line	8
15-Malad River	10
21-Henrys Fork	12
22-Teton River	14
25-Willow Creek	16
27-Blackfoot River	18
29-Portneuf River	20
31-Camas Creek and Mud Lake	22
32-Medicine Lodge and Birch Creeks	24
33-Little Lost River	26
34-Big Lost River and NRTS	28
35-Aberdeen-Springfield	32
36-Minidoka-Jerome	36
37-Wood Rivers	40
43-Raft River	42
45-Goose Creek-Rock Creek	44
47-Salmon Falls Creek	46
51-Bruneau River	48
57-Grand View to Homedale	50
61-Mountain Home	52
63-Boise River	54
65-Payette River	58
67-Weiser River	60
87-Palouse River	62
95-Lake Coeur d'Alene-Rathdrum Prairie	64
96-Pend Oreille	66

EXPLANATION

o +3
17cabl

Observation well
Lower number is location index.
Upper number shows water-level change, in feet, Spring 1969.
Indicated (+) above or (-) below the Spring 1968 water level



Base from U. S. Geological Survey, Idaho 1968

0 5 10 Miles

Observation wells and water-level data in area 11 - Bear River above Alexander.
Published report: 65.

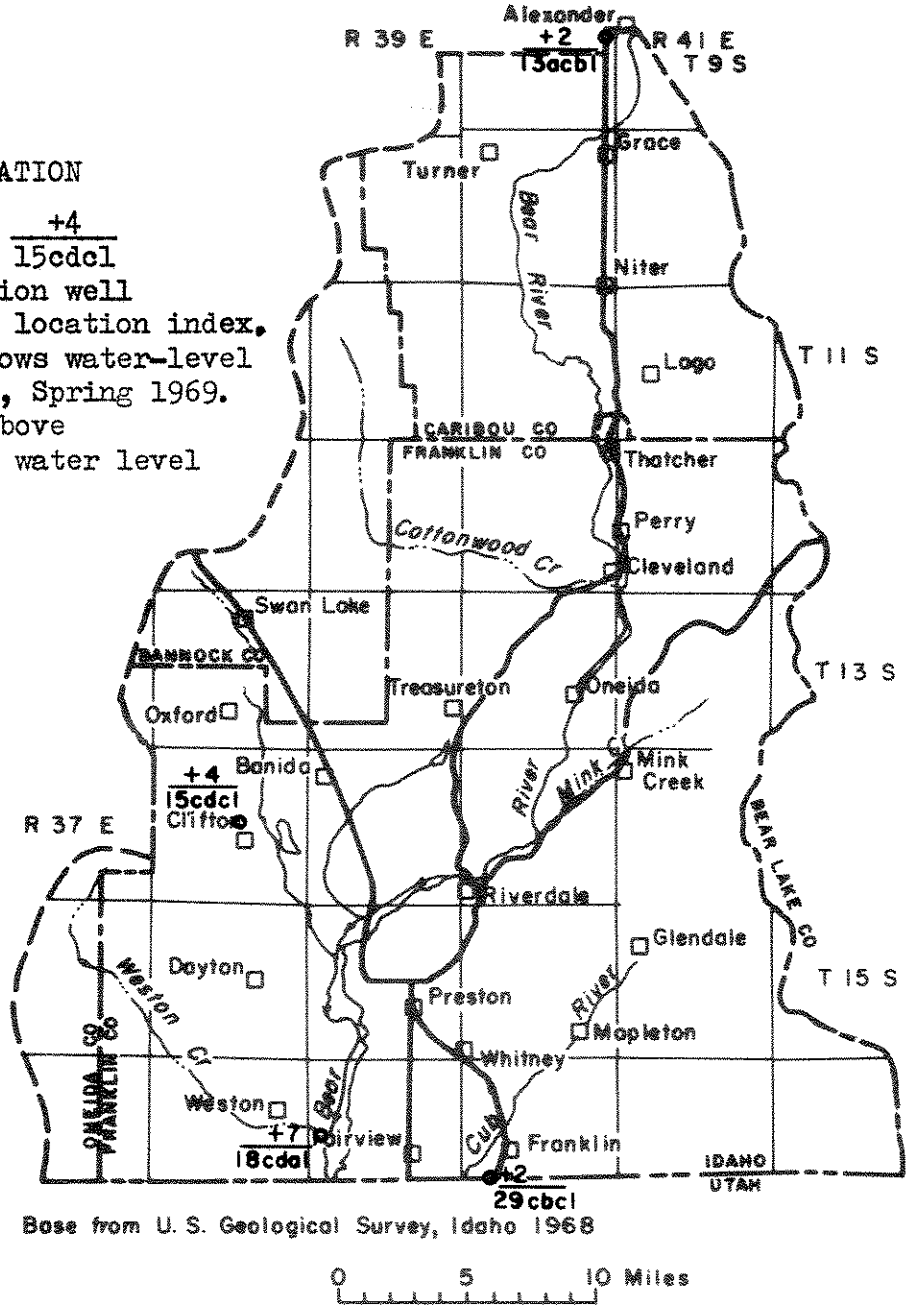
Well number	Date	Water level	Well number	Date	Water level
8S-42E-17cab1	4-25-69	97.00	13S-43E-35ccd1	4-25-69	15.41
12S-44E-5baa1	4-25-69	40.01	13S-44E-26bad1	4-25-69	22.42

Water levels, in feet below land surface, in area 11.

EXPLANATION

o +4 / 15cdcl

Observation well
Lower number is location index.
Upper number shows water-level change, in feet, Spring 1969.
Indicated (+) above the Spring 1968 water level



Base from U. S. Geological Survey, Idaho 1968

0 5 10 Miles

Observation wells and water-level data in area 13 - Bear River-Alexander to State Line
Published reports: 10, 50, and 51.

Well number	Date	Water level	Well number	Date	Water level
9S-40E-13acb1	4-25-69	267.10	16S-39E-18cda1	4-24-69	18.76
14S-38E-15cdc1	4-25-69	17.61	16S-40E-29cbc1	4-24-69	8.71

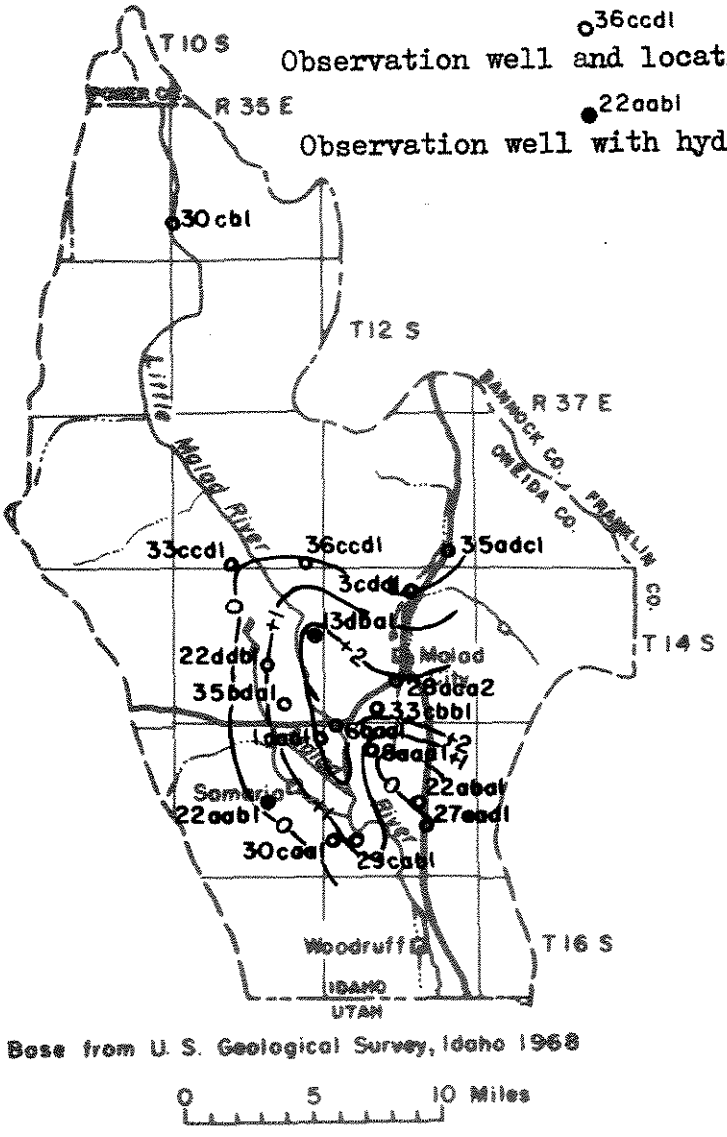
Water levels, in feet below land surface, in area 13.

EXPLANATION

—— +2 ——
Water-level change, in feet, Spring 1969. Indicated (+) above the Spring 1968 water level

o36ccdl
Observation well and location index

●22aabl
Observation well with hydrograph



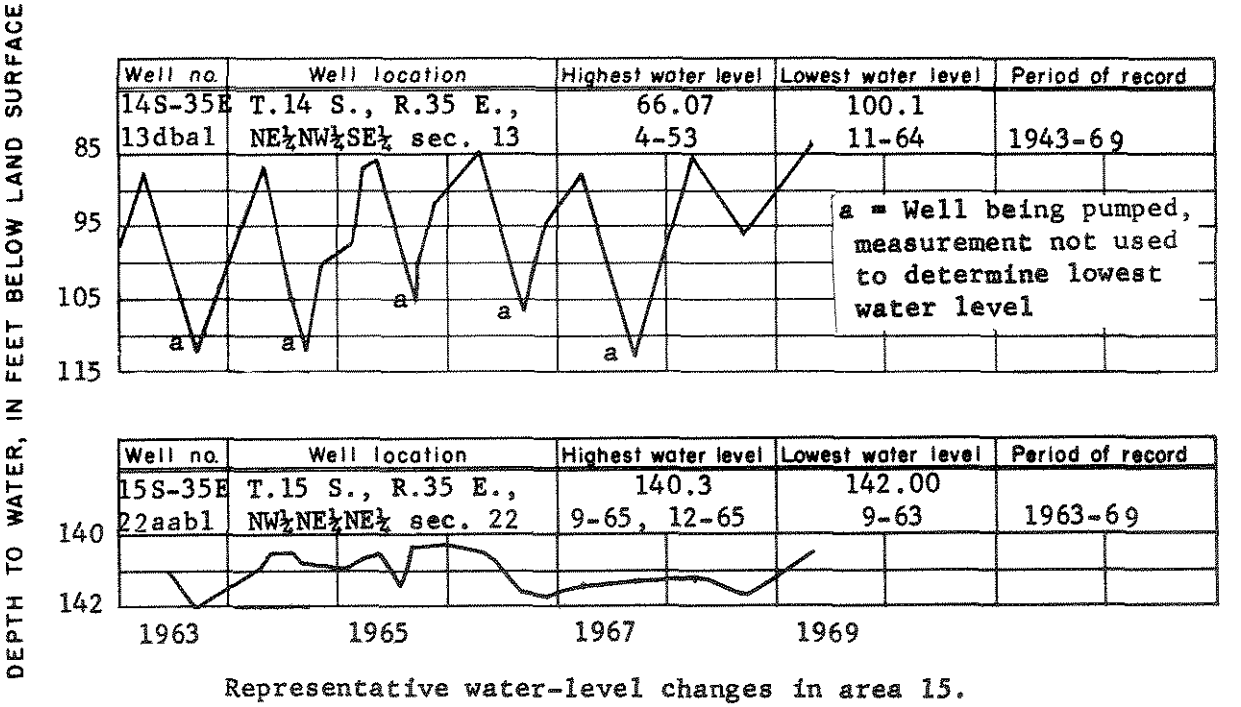
Base from U. S. Geological Survey, Idaho 1968

0 5 10 Miles

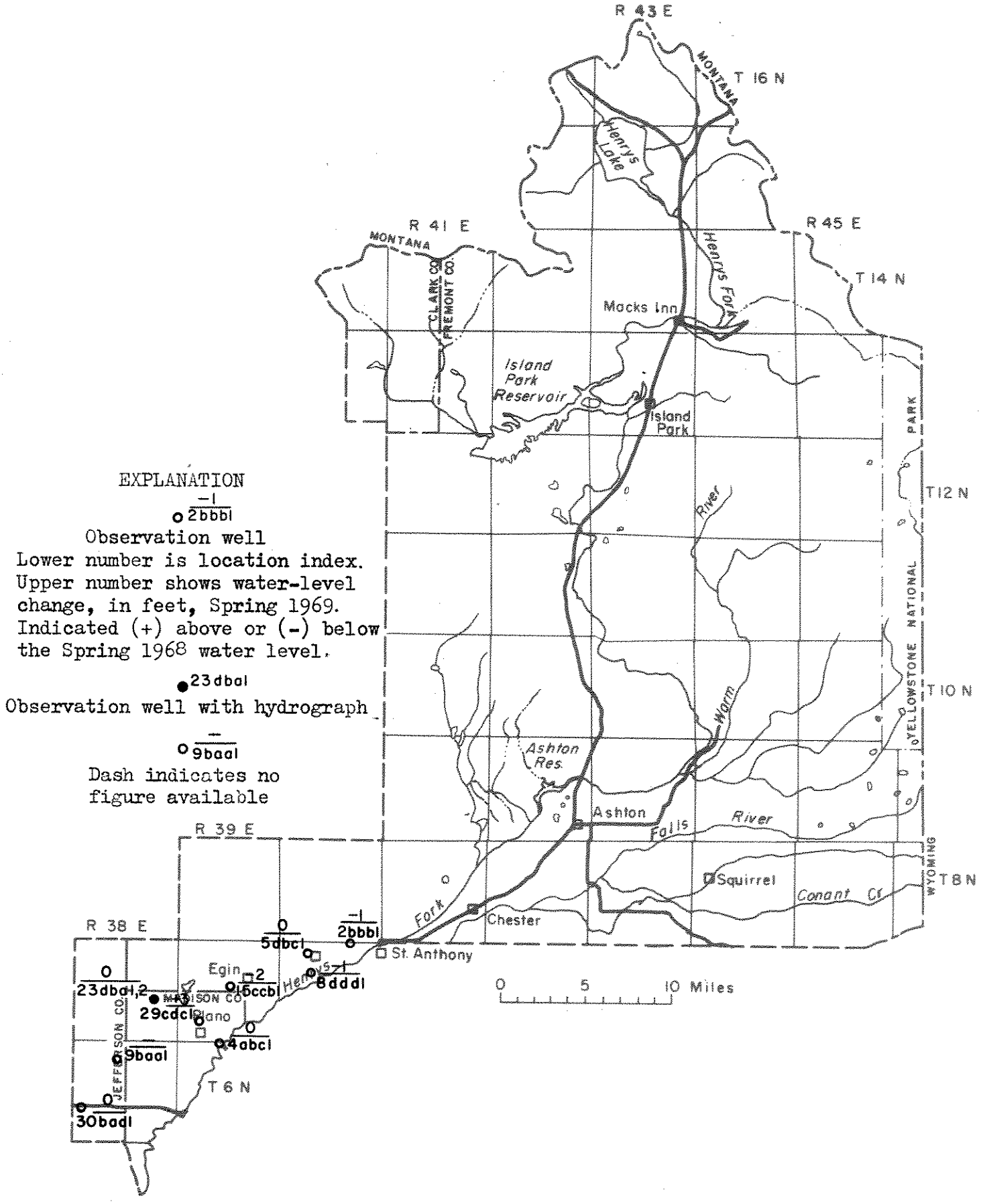
Changes in water level from Spring 1968 to Spring 1969 and location of observation wells in area 15 - Malad River. Published reports: 10, 50, 51, and 91.

Well number	Date	Water level	Well number	Date	Water level
11S-35E-30cb1	-	-	14S-36E-33cbb1	-	-
13S-35E-33ccd1	4-24-69	295.47	15S-35E-1daa1	4-24-69	+18.27
13S-35E-36ccd1	-	-	15S-35E-22aab1	4-24-69	140.57
13S-36E-35adc1	4-23-69	19.78	15S-36E-6baa1	4-24-69	+10.75
14S-35E-13dba1	4-24-69	83.14	15S-36E-8aaa1	4-23-69	20.77
14S-35E-22ddb1	4-24-69	95.38	15S-36E-22aba1	-	-
14S-35E-35bda1	4-24-69	+7.32	15S-36E-27aad1	4-24-69	46.77
14S-36E-3cdd1	4-23-69	104.59	15S-36E-29cab1	4-24-69	+9.22
14S-36E-28aca2	4-23-69	30.62	15S-36E-30caa1	4-24-69	28.23

Water levels, in feet below or above (+) land surface, in area 15.



Representative water-level changes in area 15.

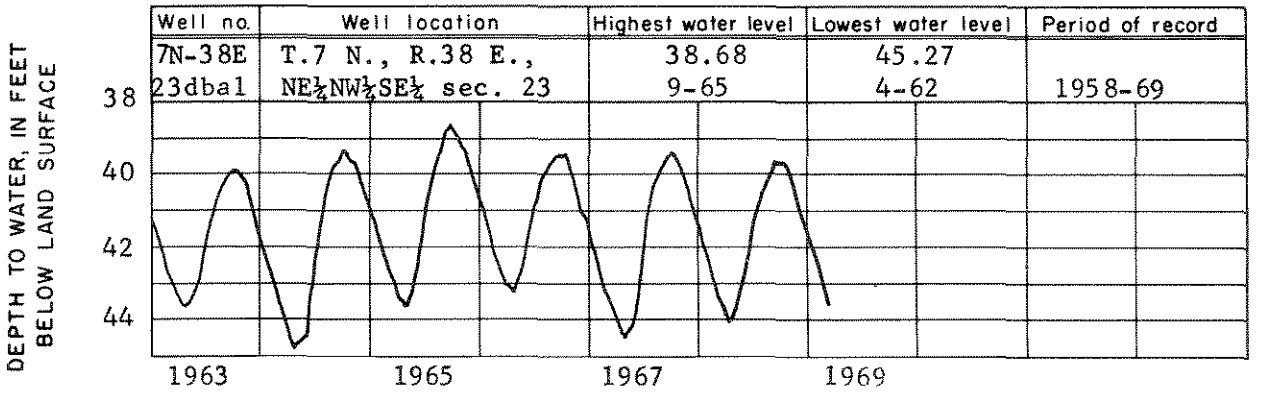


Base from U. S. Geological Survey, Idaho 1968

Observation wells and water-level data in area 21 - Henrys Fork.
Published reports: 5-7, 17, 24, 31, 34, 73, 74, and 89.

Well number	Date	Water level	Well number	Date	Water level
7N-38E-23dba1	3-20-69	43.82	7N-40E-5dbc1	3-24-69	12.19
7N-38E-23dba2	3-24-69	38.37	7N-40E-8ddd1	3-24-69	18.38
7N-39E-15ccb1	3-24-69	24.43	6N-38E-9baa1	5-5-69	132.42
7N-39E-29cdc1	3-24-69	12.84	6N-38E-30bad1	3-23-69	88.25
7N-40E-2bbb1	3-24-69	121.93	6N-39E-4abc1	3-24-69	15.97

Water levels, in feet below land surface, in area 21.



Representative water-level changes in area 21.

EXPLANATION

0
16daal

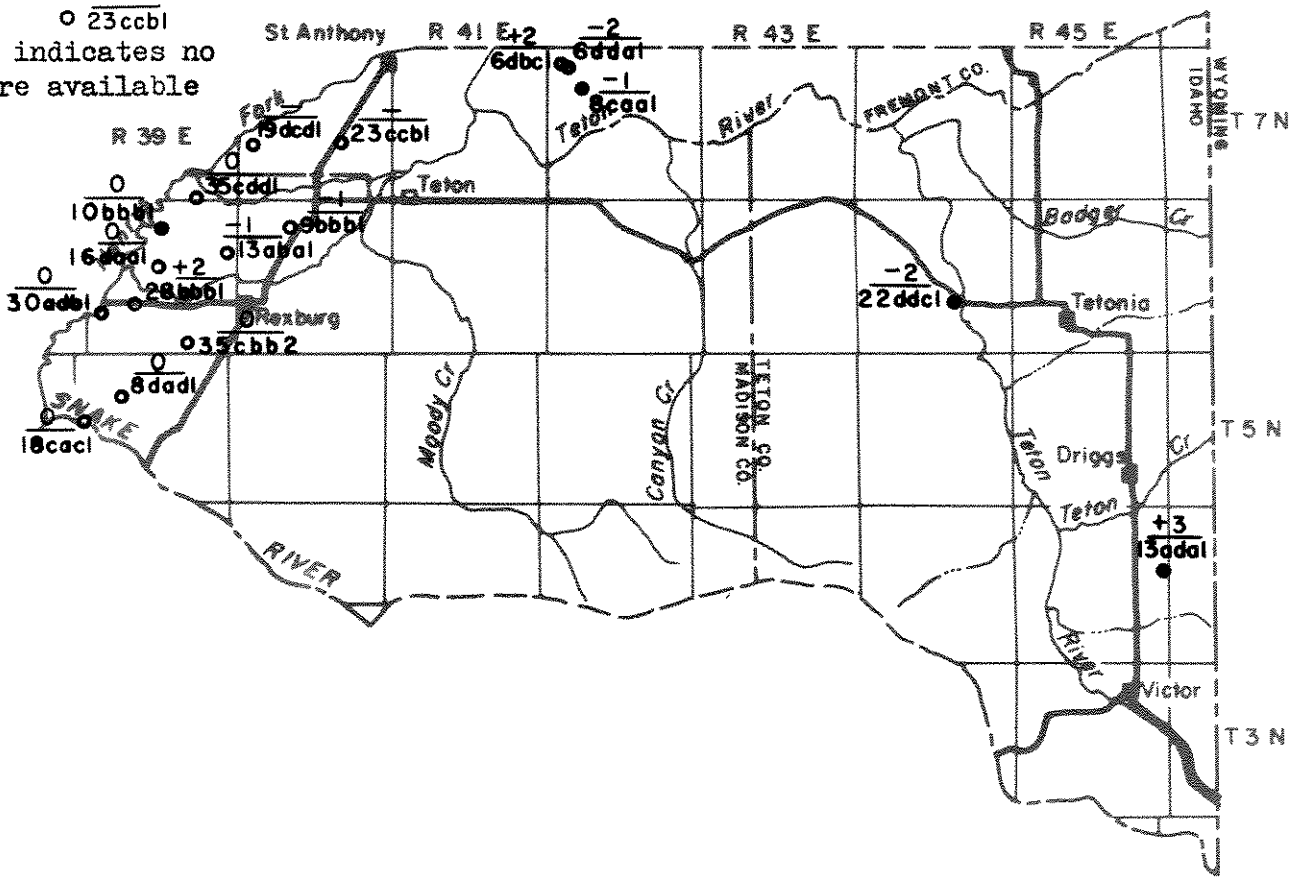
Observation well
Lower number is location index.
Upper number shows water-level change, in feet, Spring 1969.
Indicated (+) above or (-) below the Spring 1968 water level

10bbbl

Observation well with hydrograph

—
23ccbl

Dash indicates no figure available



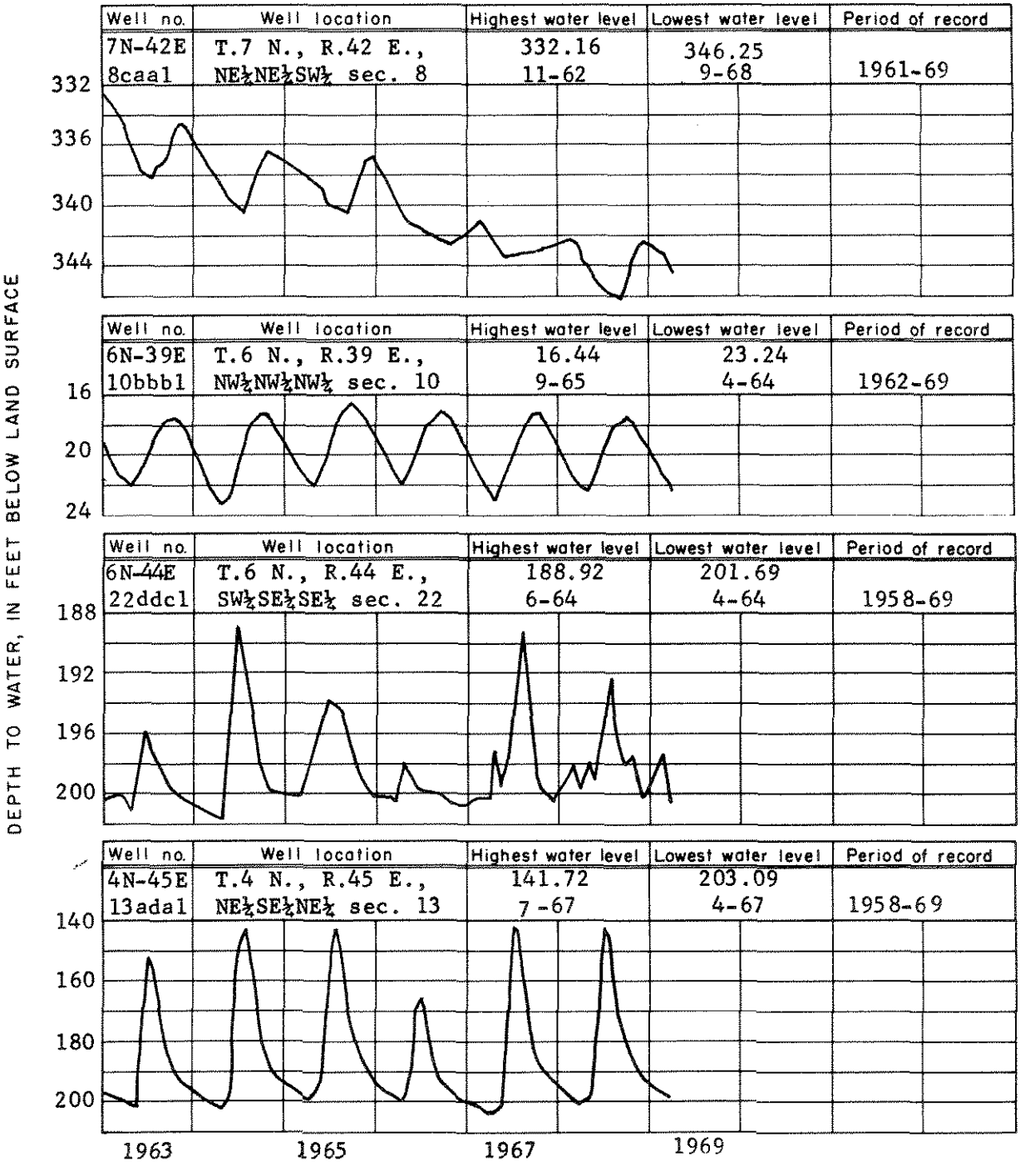
Base from U. S. Geological Survey, Idaho 1968

0 5 10 Miles

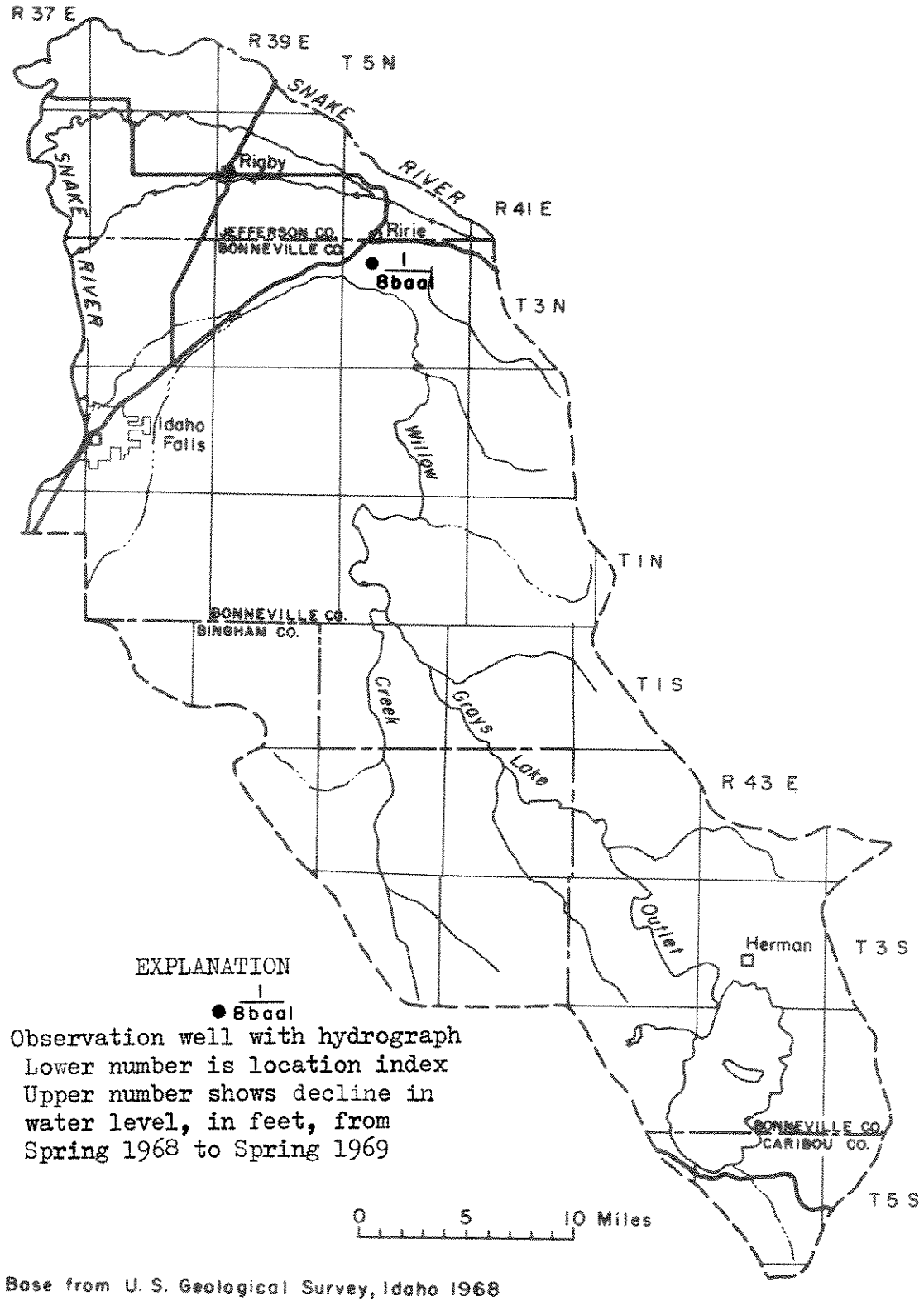
Observation wells and water-level data in area 22 - Teton River
Published reports: 5-7, 17, 24, 27, 31, 34, 73, 74, and 89.

Well number	Date	Water level	Well number	Date	Water level
7N-39E-35cdd1	3-24-69	5.62	6N-39E-28bbb1	3-24-69	7.98
7N-40E-19dcd1	-	-	6N-39E-30adb1	3-24-69	6.02
7N-40E-23ccb1	3-21-69	Dry50.2	6N-39E-35cbb2	3-24-69	8.63
7N-42E-6dbc1	3-24-69	239.54	6N-40E-9bbb1	3-24-69	16.55
7N-42E-6dda1	3-24-69	273.29	6N-44E-22ddc1	3-21-69	200.63
7N-42E-8caa1	3-24-69	344.33	5N-39E-8dad1	3-24-69	7.42
6N-39E-10bbb1	3-24-69	22.39	5N-39E-18cac1	3-24-69	+0.84
6N-39E-13aba1	3-24-69	17.20	4N-45E-13ada1	3-21-69	198.18
6N-39E-16daa1	3-24-69	11.52			

Water levels, in feet below or above (+) land surface, in area 22.



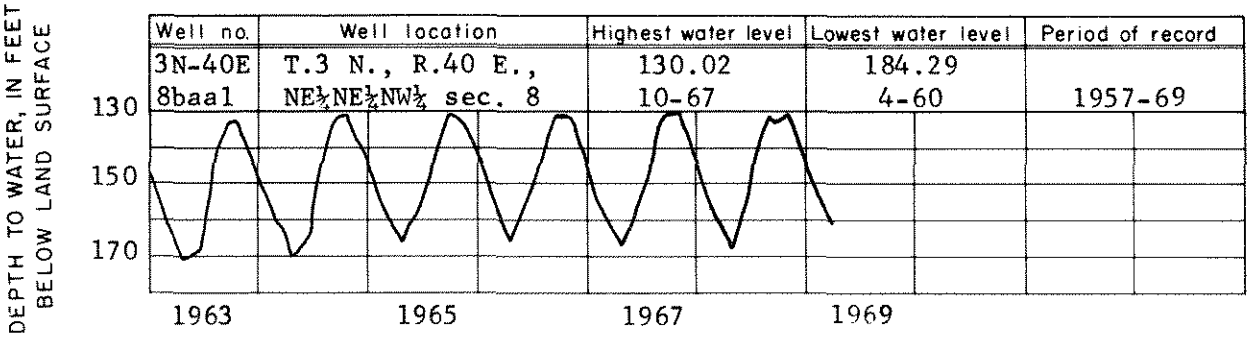
Representative water-level changes in area 22.



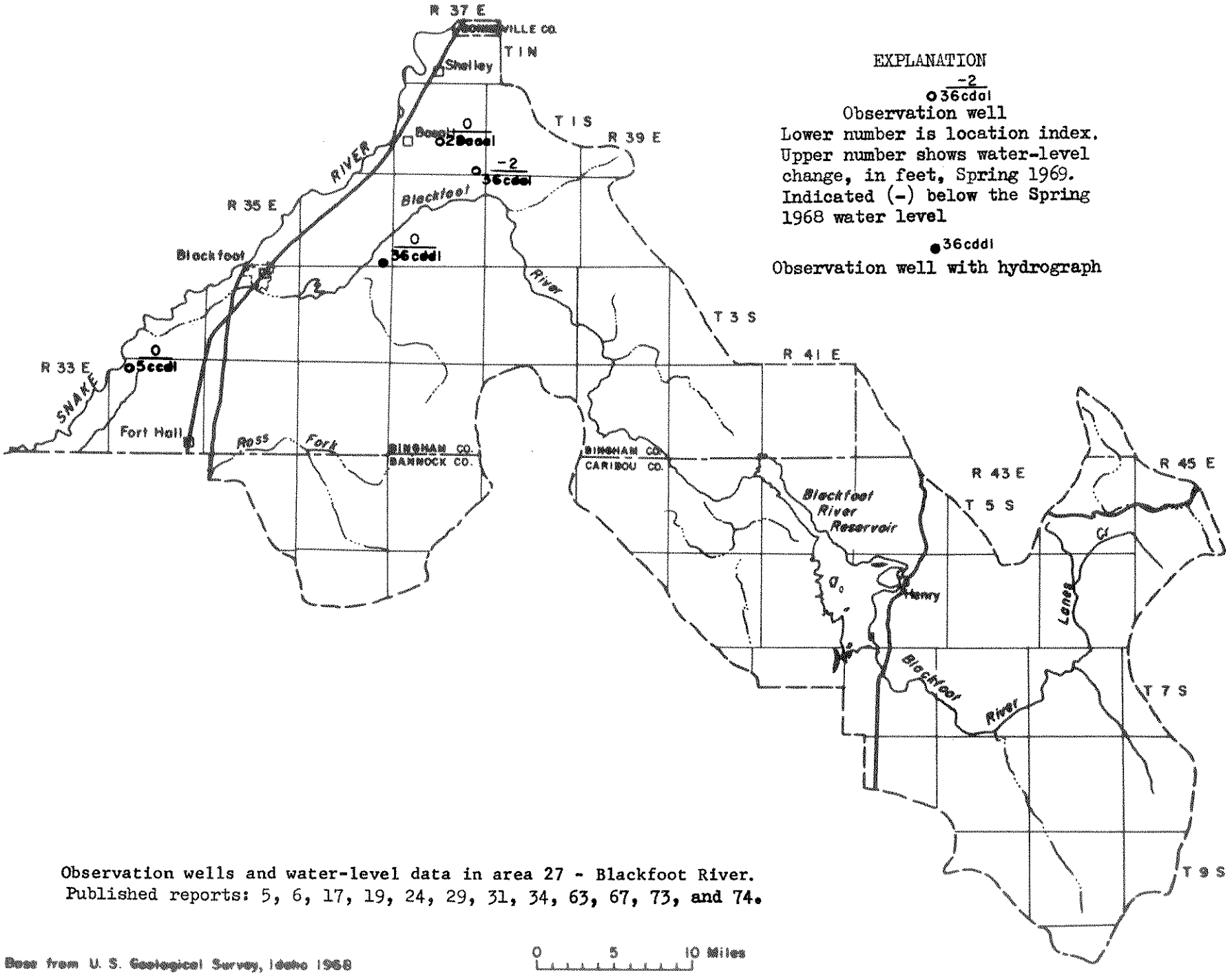
Observation well and water-level data in area 25 - Willow Creek.
Published reports: 5-7, 17, 24, 31, 34, 73, 74, and 89.

Well number	Date	Water level
3N-40E-8baa1	3-21-69	160.54

Water level, in feet below land surface, in area 25.



Representative water-level changes in area 25.

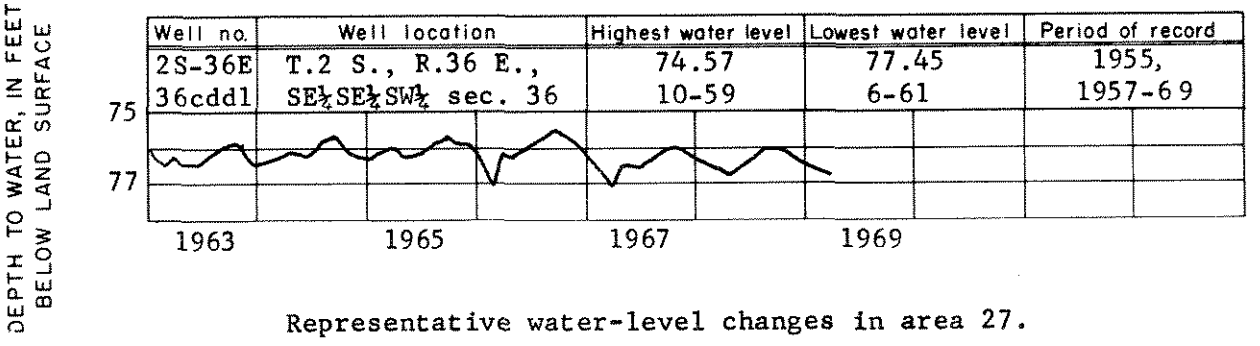


Observation wells and water-level data in area 27 - Blackfoot River.
Published reports: 5, 6, 17, 19, 24, 29, 31, 34, 63, 67, 73, and 74.

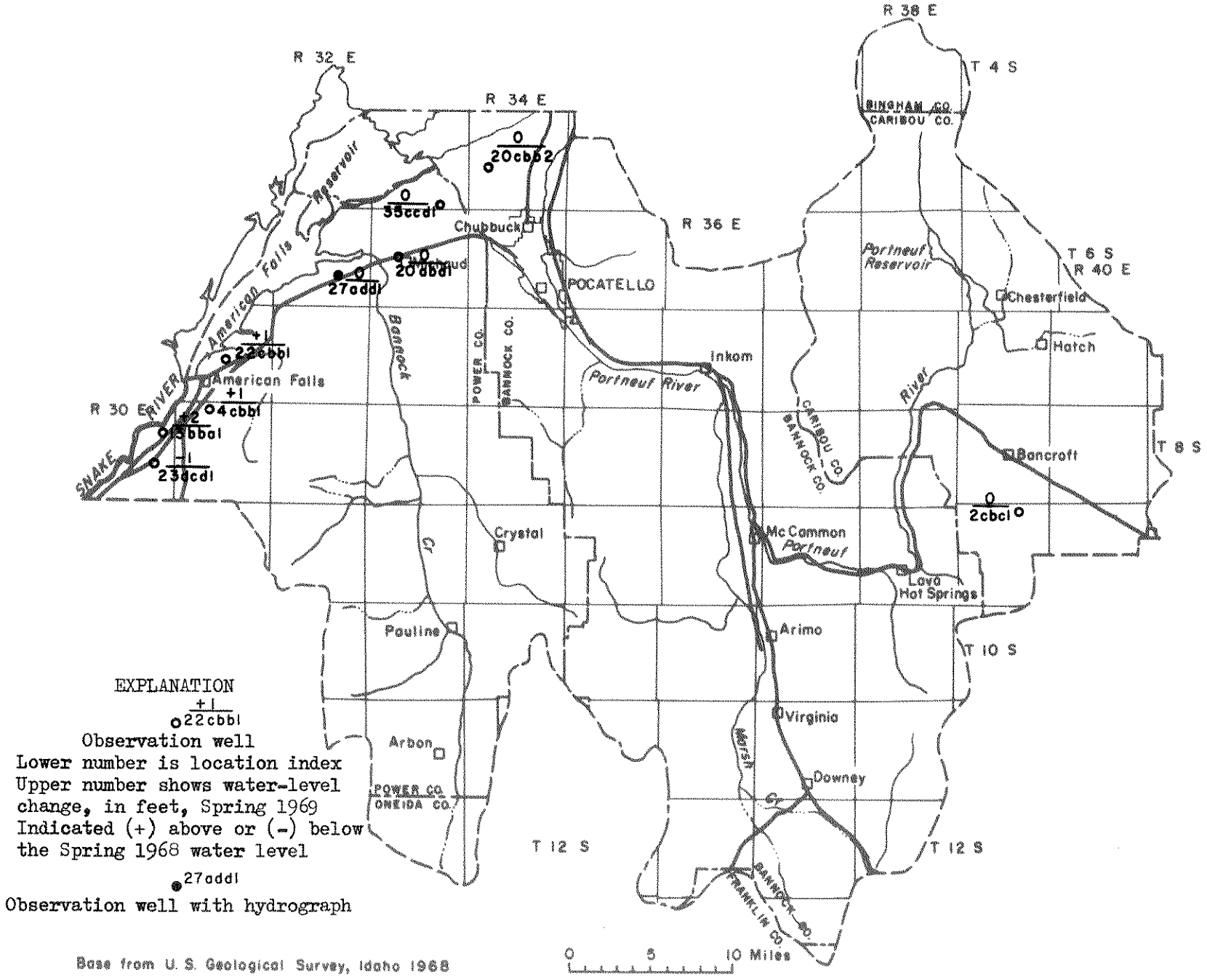
Base from U. S. Geological Survey, Idaho 1968

Well number	Date	Water level	Well number	Date	Water level
1S-37E-28aaa1	3-23-69	50.76	2S-36E-36cdd1	3-23-69	76.71
1S-37E-36cda1	4-23-69	248.36	4S-34E-5ccd1	3-22-69	4.00

Water levels, in feet below land surface, in area 27.



Representative water-level changes in area 27.



EXPLANATION

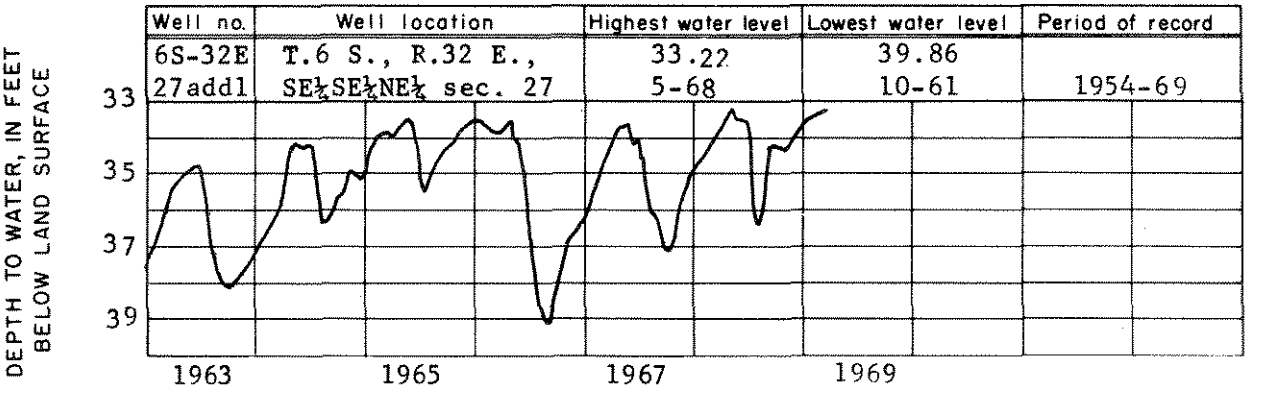
+1
22cbb1
Observation well
Lower number is location index
Upper number shows water-level change, in feet, Spring 1969
Indicated (+) above or (-) below the Spring 1968 water level

27ddd1
Observation well with hydrograph

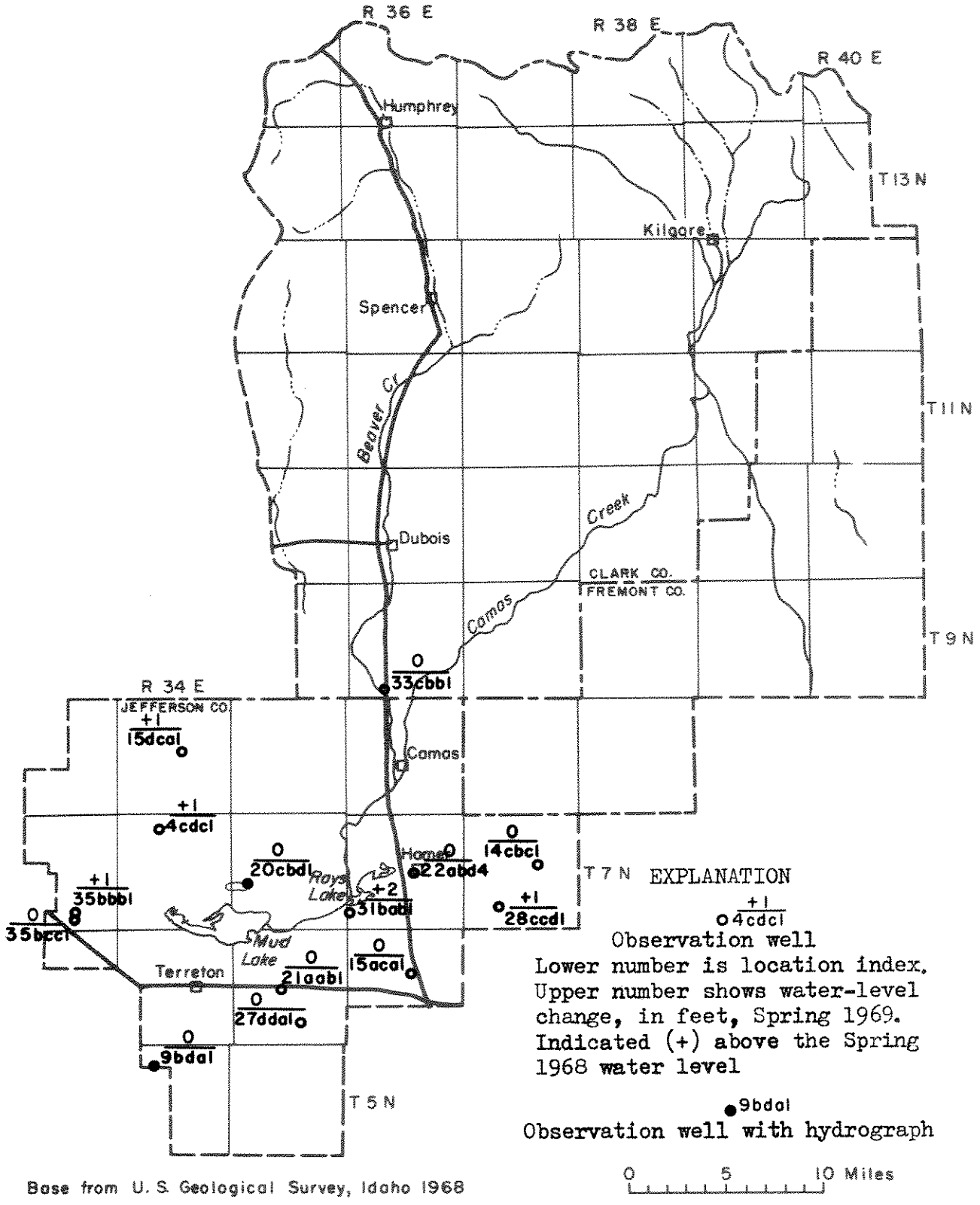
Observation wells and water-level data in area 29 - Portneuf River
Published reports: 5, 6, 17, 19, 24, 29, 31, 34, 57, 63, and 67.

Well number	Date	Water level	Well number	Date	Water level
5S-33E-35ccd1	3-21-69	24.91	8S-30E-13bba1	3-21-69	135.94
5S-34E-20cbb2	3-21-69	52.49	8S-30E-23dcd1	4-22-69	209.09
6S-32E-27add1	3-22-69	33.17	8S-31E-4cbb1	4-22-69	238.82
6S-33E-20abd1	3-21-69	34.81	9S-39E-2cbc1	3-19-69	83.80
7S-31E-22cbb1	3-21-69	56.09			

Water levels, in feet below land surface, in area 29.



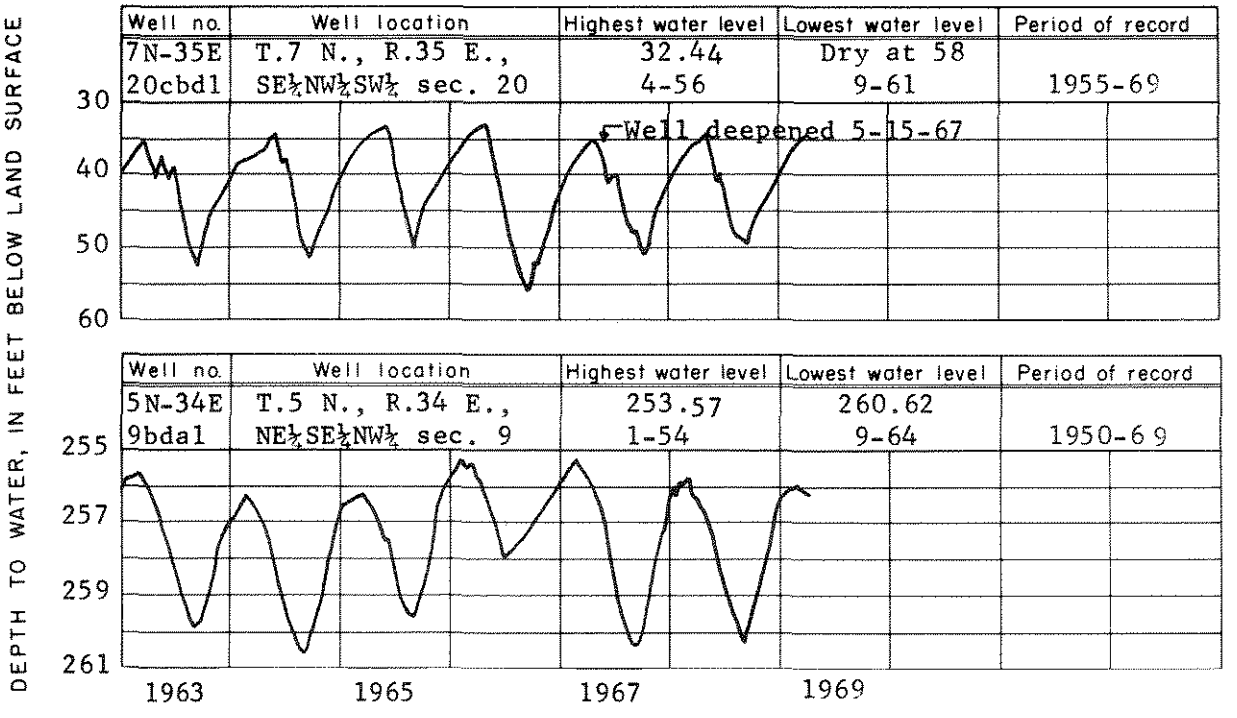
Representative water-level changes in area 29.



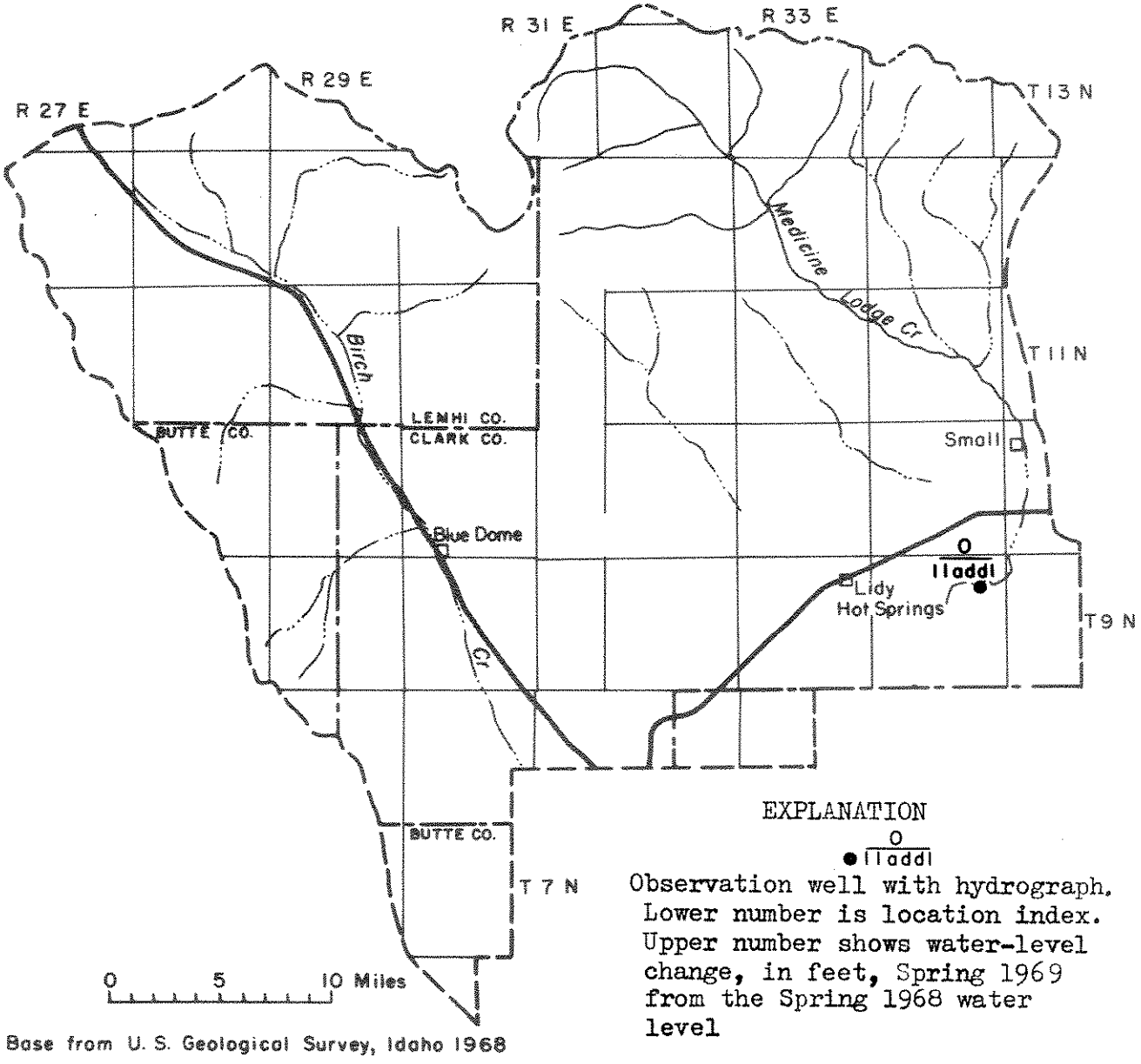
Observation wells and water-level data in area 31 - Camas Creek and Mud Lake.
Published reports: 4-7, 17, 24, 31, 34, 43, 62, 73, and 74.

Well number	Date	Water level	Well number	Date	Water level
9N-36E-33cbb1	3-24-69	77.07	7N-36E-31bab1	3-23-69	27.23
8N-34E-15dca1	4-24-69	33.44	7N-37E-14cbc1	4-23-69	75.50
7N-33E-35bbb1	3-25-69	16.90	7N-37E-28ccd1	4-23-69	63.24
7N-33E-35bcc1	3-25-69	27.80	6N-35E-21aab1	3-23-69	100.39
7N-34E-4cdc1	3-24-69	6.83	6N-35E-27dda1	3-24-69	233.83
7N-35E-20cbd1	3-20-69	34.75	6N-36E-15aca1	3-25-69	151.43
7N-36E-22abd4	3-25-69	6.13	5N-34E-9bda1	3-23-69	256.17

Water levels, in feet below land surface, in area 31.



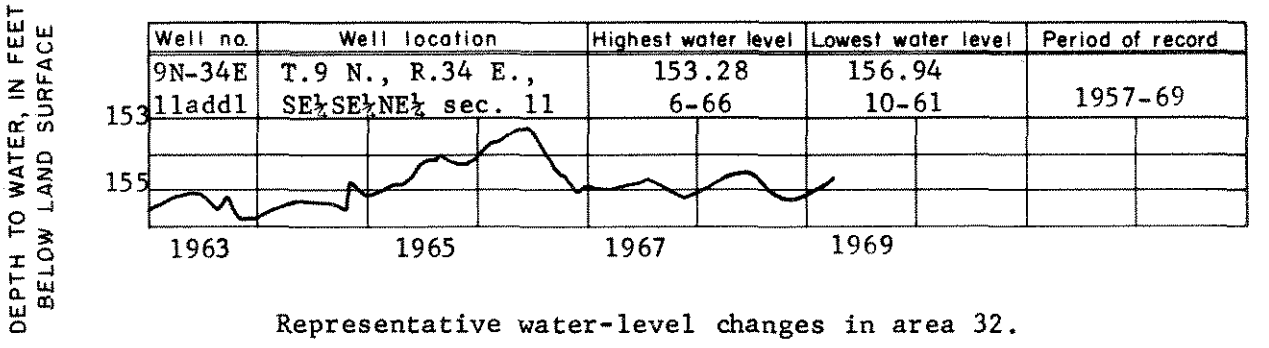
Representative water-level changes in area 31.



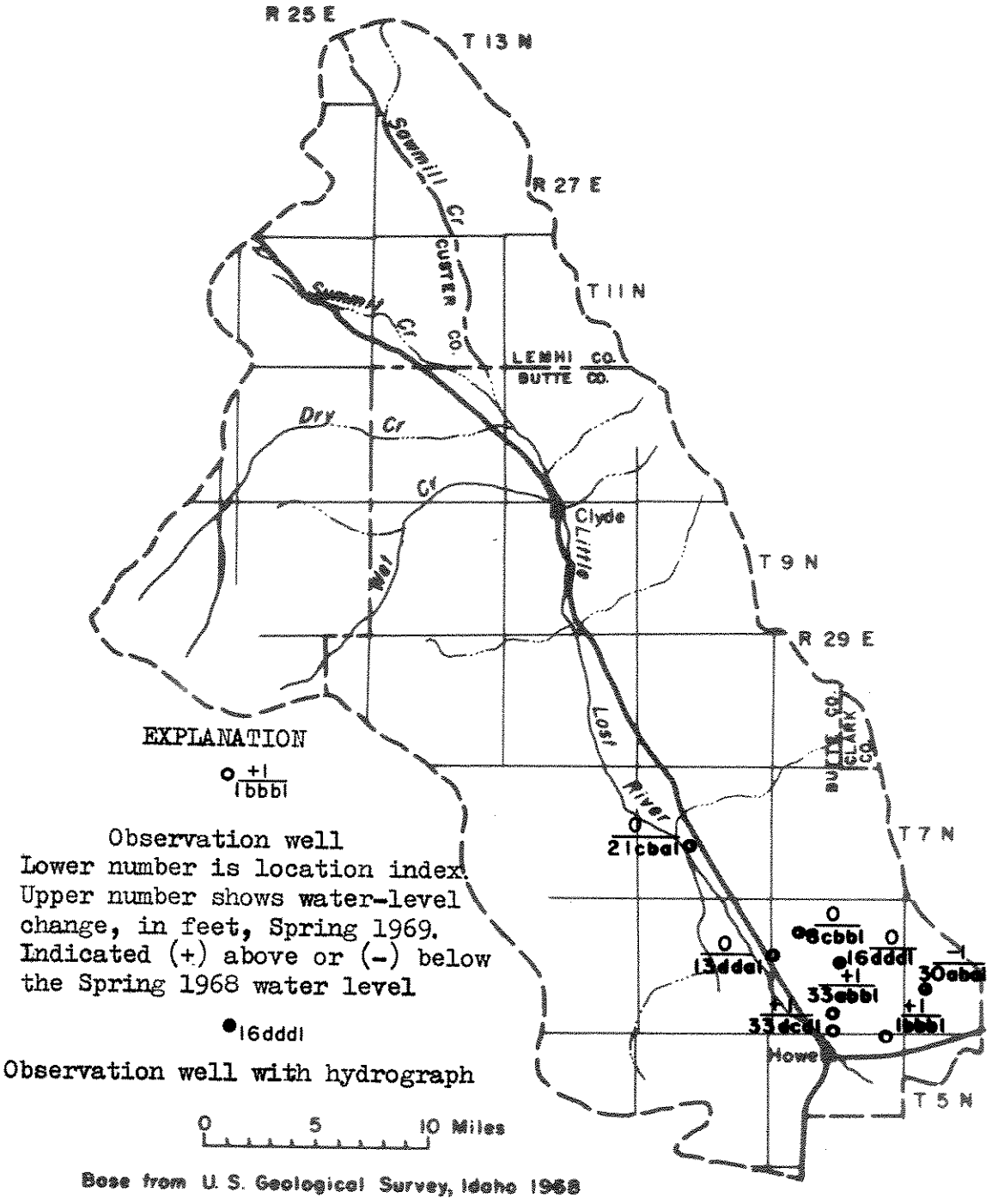
Observation wells and water-level data in area 32 - Medicine Lodge and Birch Creeks.
Published reports: 4-6, 17, 24, 31, 33, 34, 43, 55, and 76.

Well number	Date	Water level
9N-34E-11add1	3-26-69	154.54

Water level, in feet below land surface, in area 32.



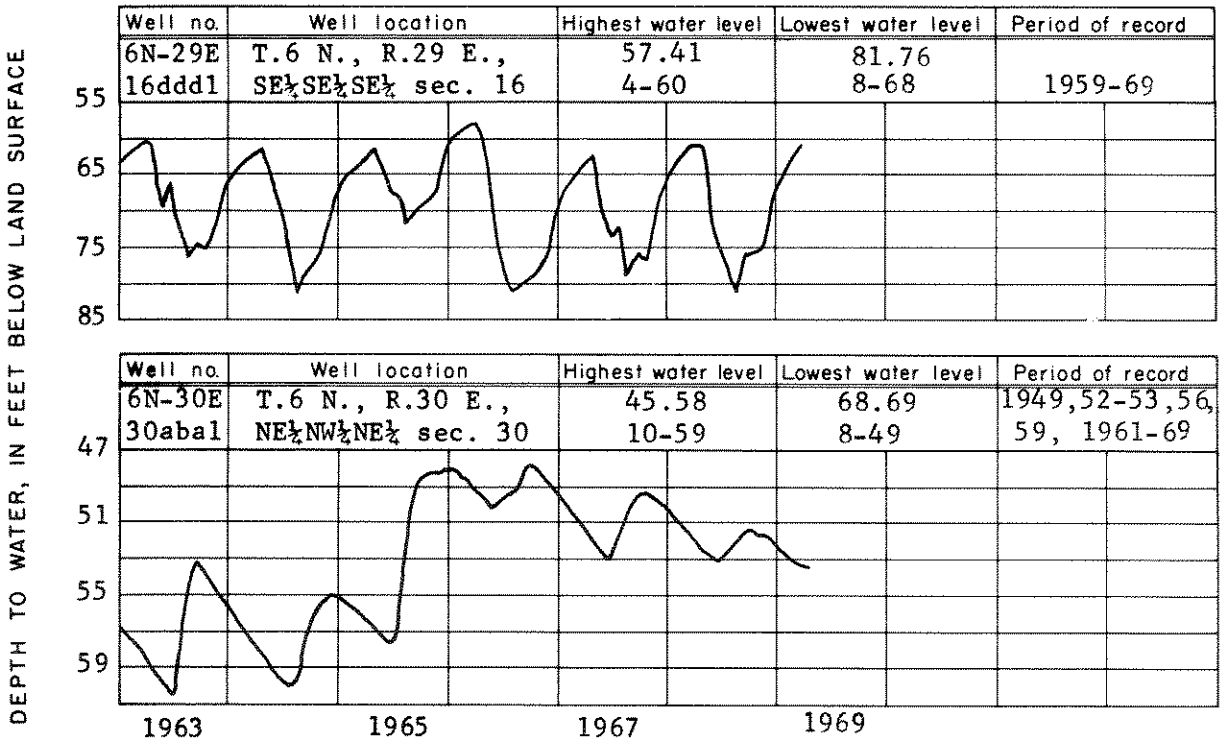
Representative water-level changes in area 32.



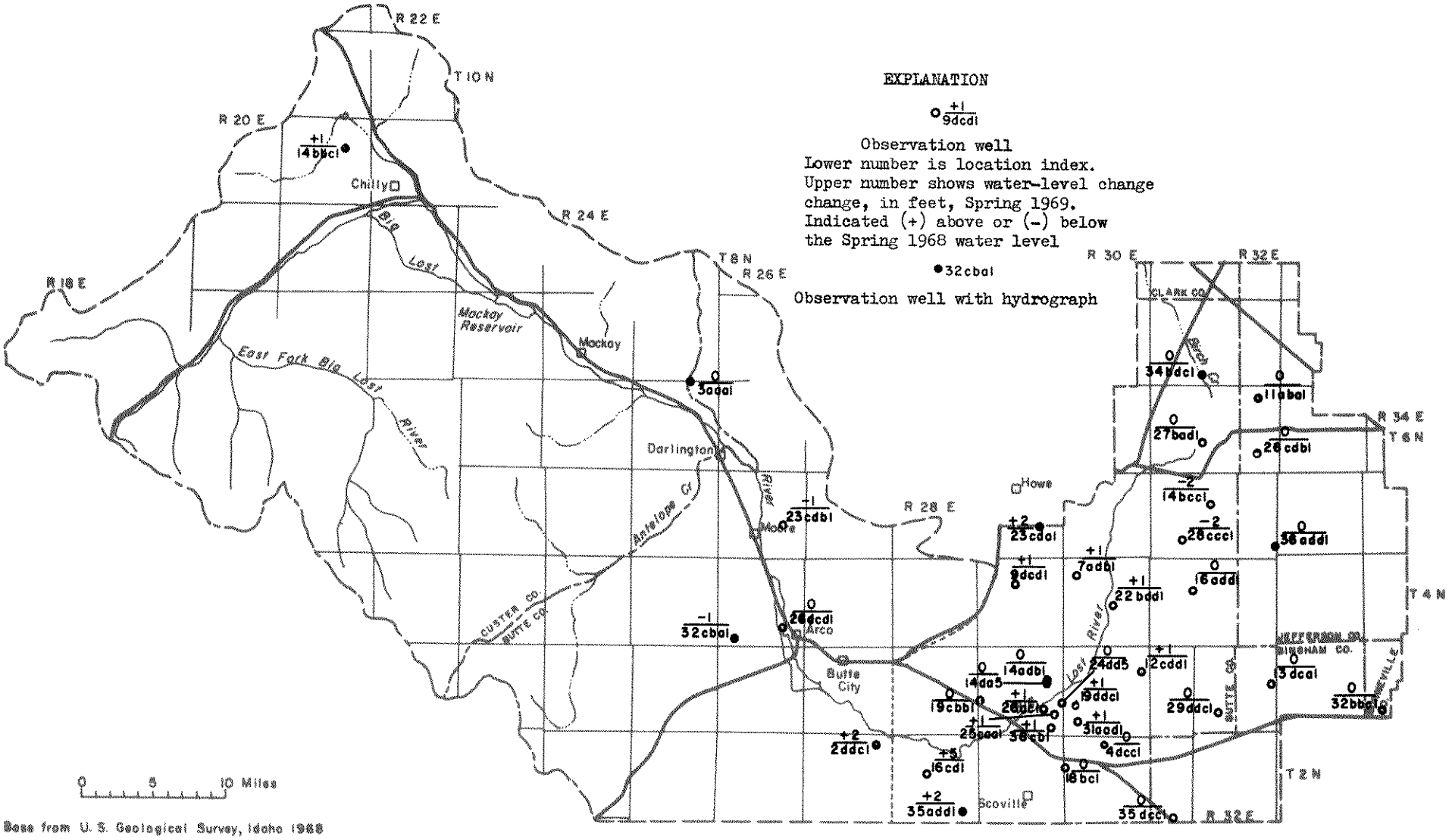
Observation wells and water-level data in area 33 - Little Lost River. Published reports: 5, 6, 17, 18, 24, 31, 34, and 49.

Well number	Date	Water level	Well number	Date	Water level
7N-28E-21cba1	3-26-69	6.14	6N-29E-33abb1	3-26-69	62.71
6N-28E-13dda1	3-26-69	100.22	6N-29E-33dcd1	3-26-69	104.33
6N-29E-8cbb1	3-26-69	99.72	6N-30E-30aba1	3-26-69	53.37
6N-29E-16ddd1	3-26-69	60.48	5N-29E-1bbb1	3-26-69	121.48

Water levels, in feet below land surface, in area 33.



Representative water-level changes in area 33.

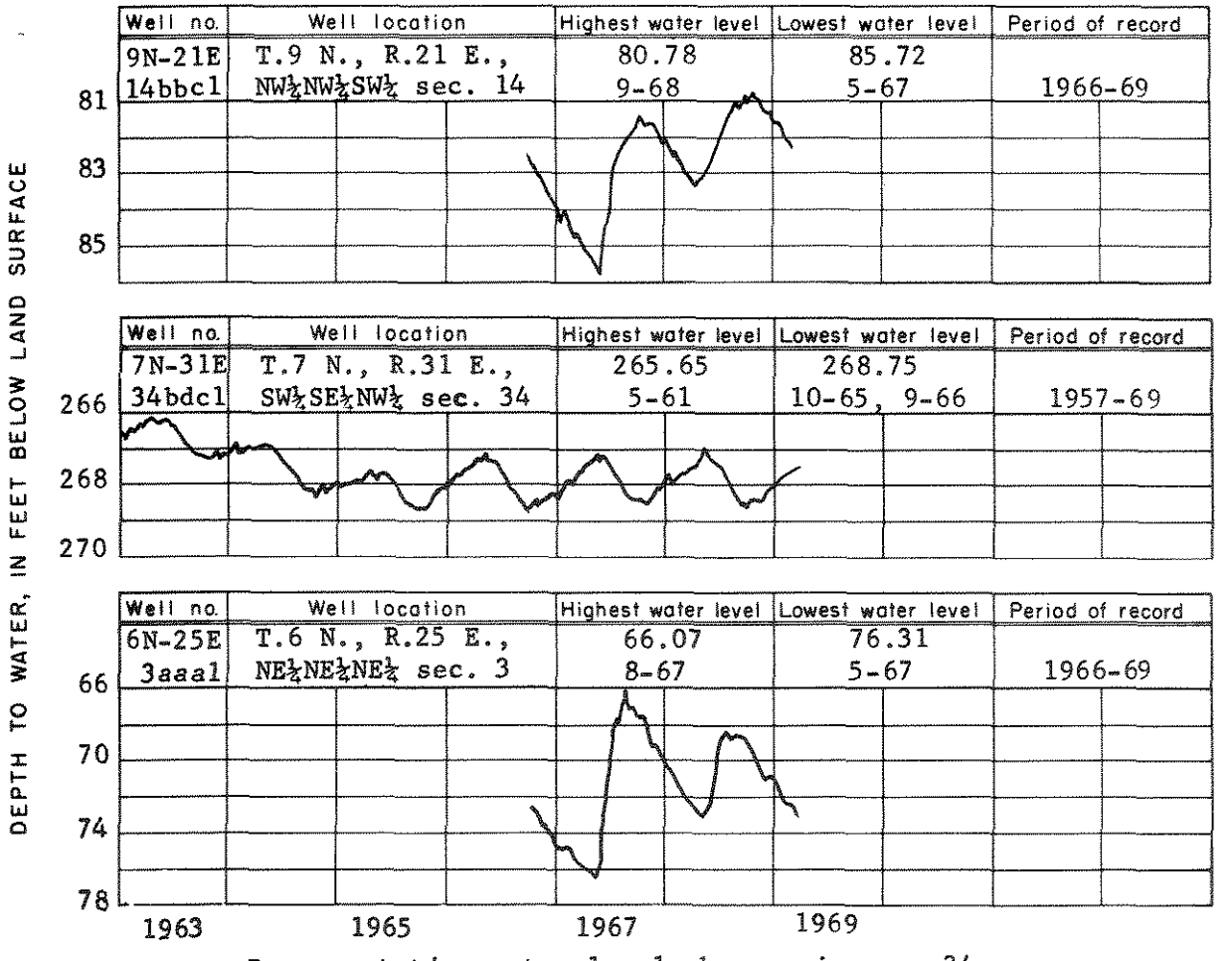


Observation wells and water-level data in area 34 - Big Lost River and NRTS.
Published reports: 5, 6, 17, 24, 31, 33, 34, 48, 55, 62, 73, 74, and 93.

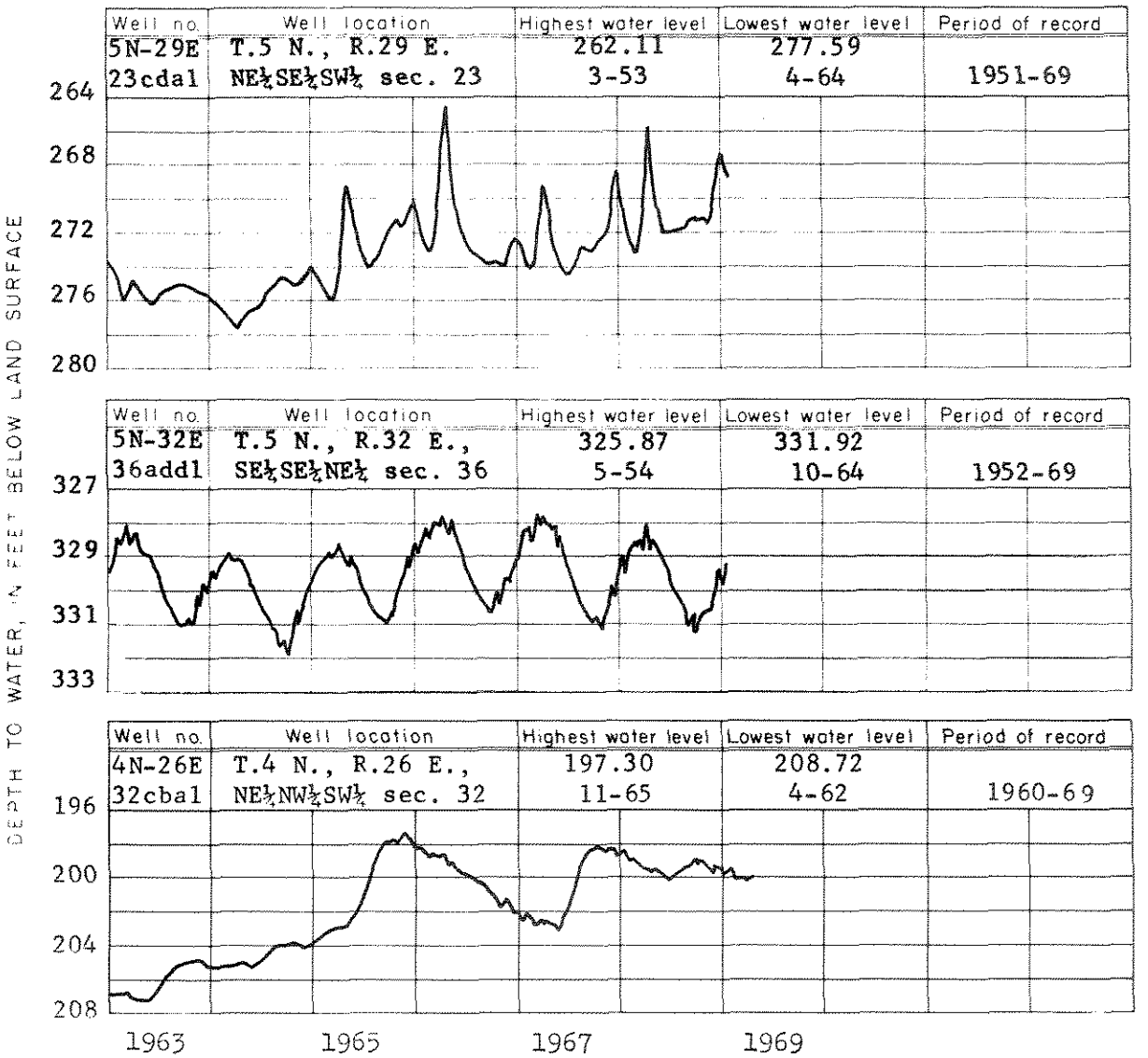
Well number	Date	Water level	Well number	Date	Water level
9N-21E-14bbc1*	3-20-69	82.71	3N-29E-14da5	3-29-69	456.84
7N-31E-34bdc1	3-22-69	267.40	3N-29E-19cbb1	3-22-69	605.32
6N-25E-3aaa1*	3-20-69	73.45	3N-29E-24dd5	3-28-69	455.07
6N-31E-27bad1	3-22-69	210.67	3N-29E-25caa1	4-9-69	468.18
6N-32E-11aba1*	3-22-69	207.72	3N-29E-26ac1	4-9-69	477.22
6N-32E-26cdb1*	3-23-69	220.54	3N-29E-36cb1	4-9-69	478.89
5N-26E-23cdb1	3-26-69	24.37	3N-30E-12cdd1	3-21-69	463.88
5N-29E-23cda1	4-10-69	267.43	3N-30E-19ddc1	3-21-69	445.62
5N-31E-14bcc1	4-10-69	266.18	3N-30E-31aad1	3-21-69	457.96
5N-31E-28ccc1	4-10-69	264.10	3N-32E-13dca1	3-29-69	675.48
5N-32E-36add1	3-23-69	328.57	3N-32E-29ddc1	4-21-69	655.03
4N-26E-26dcd1	3-26-69	38.83	3N-34E-32bbc1	3-22-69	720.33
4N-26E-32cba1	3-20-69	200.30	2N-27E-2ddc1	4-4-69	759.57
4N-29E-9dcd1	4-9-69	393.63	2N-28E-16cd1	4-23-69	641.24
4N-30E-7adb1	4-17-69	321.64	2N-28E-35add1	4-2-69	601.94
4N-30E-22bdd1	3-30-69	350.13	2N-30E-4dcc1	3-21-69	470.76
4N-31E-16add1	4-17-69	410.35	2N-30E-18bc1	3-21-69	495.66
3N-29E-14adb1	3-30-69	455.13	2N-31E-35dcc1	3-22-69	584.96

* Formerly 14bb1, 3aa1, 11ab1, and 26cd1.

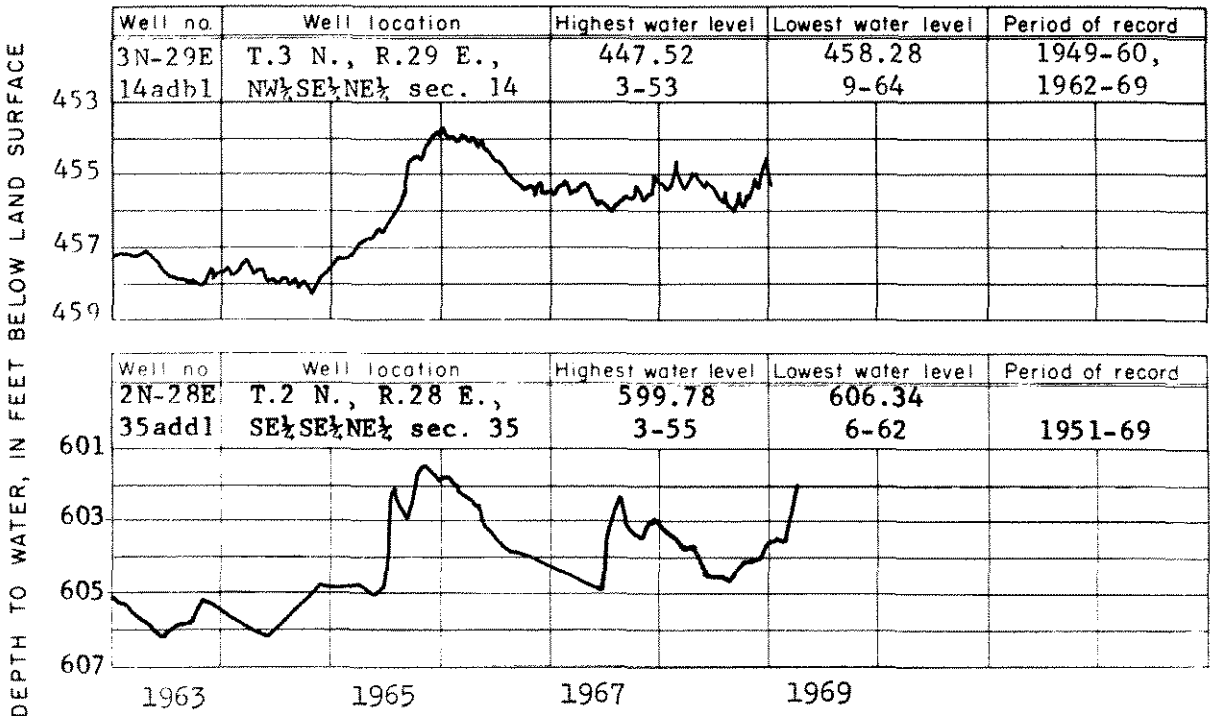
Water levels, in feet below land surface, in area 34.



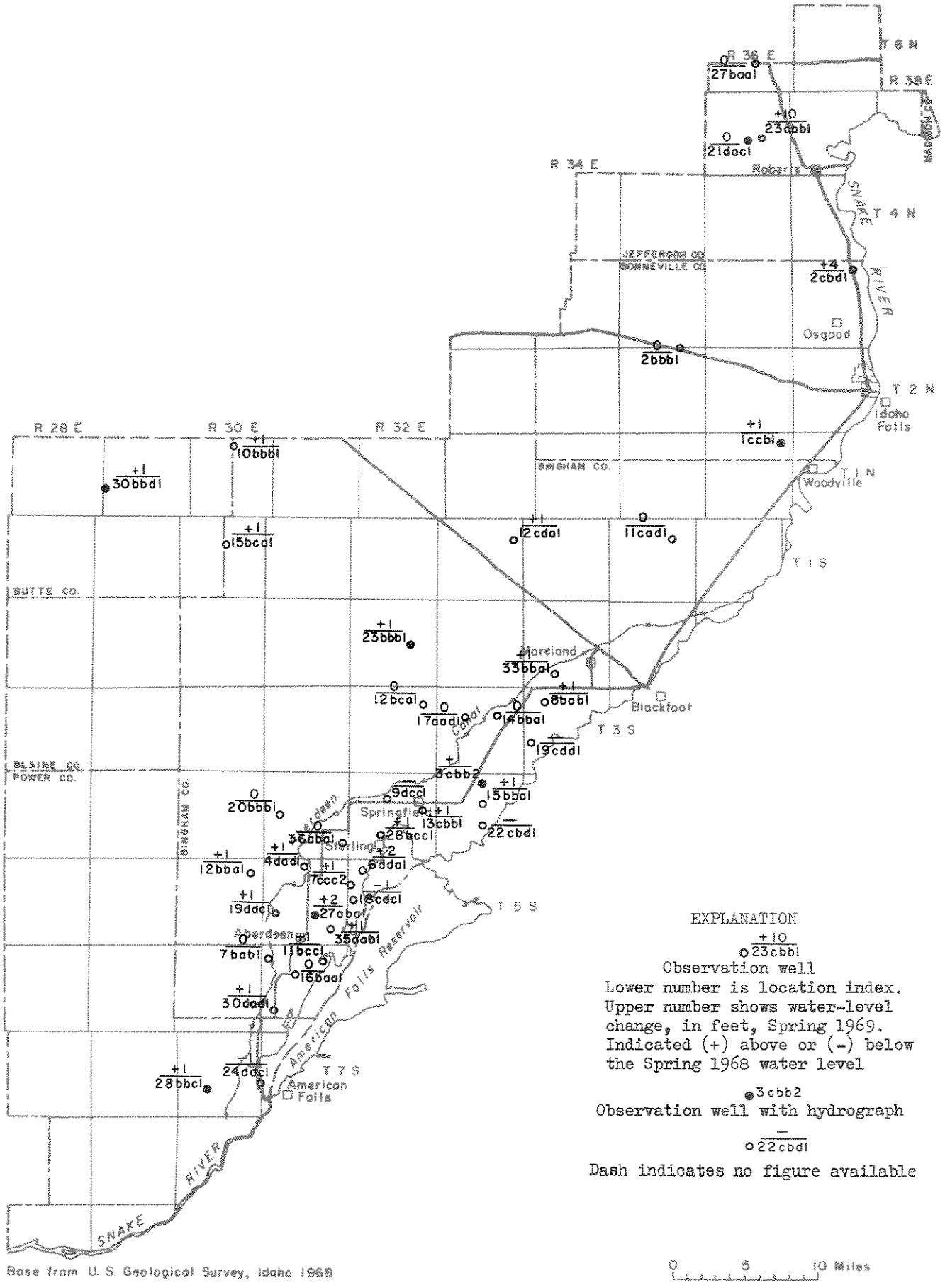
Representative water-level changes in area 34.



Representative water-level changes in area 34.



Representative water-level changes in area 34.



EXPLANATION

+10
23cbb1
Observation well
Lower number is location index.
Upper number shows water-level change, in feet, Spring 1969.
Indicated (+) above or (-) below the Spring 1968 water level

3cbb2
Observation well with hydrograph

—
22cbd1
Dash indicates no figure available

Base from U. S. Geological Survey, Idaho 1968

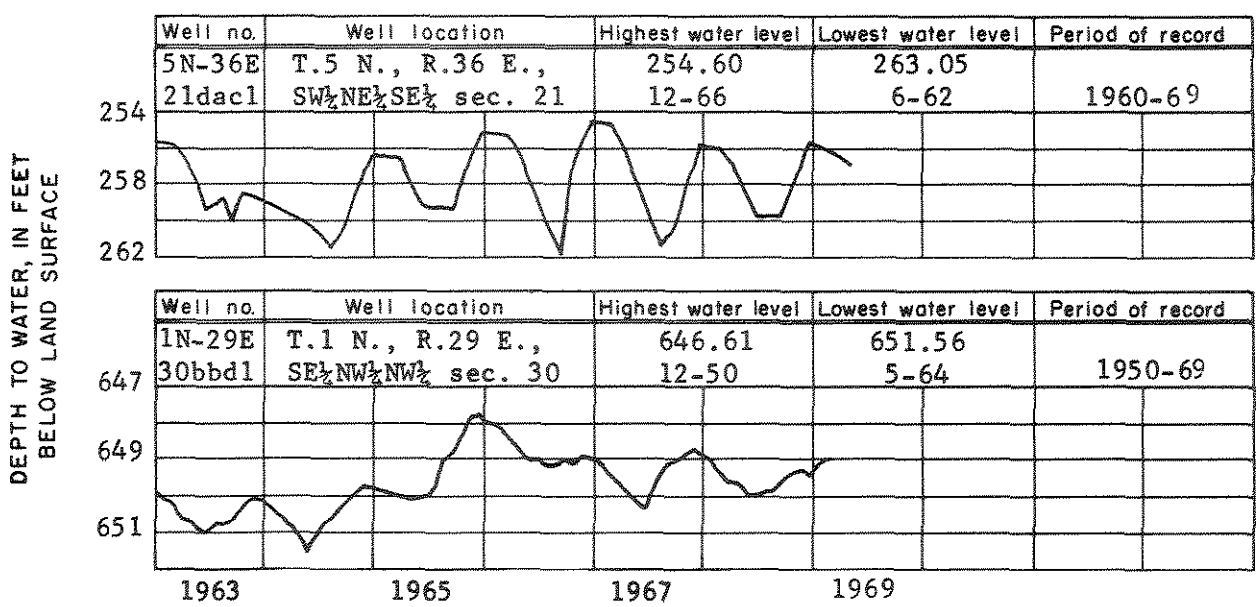
0 5 10 Miles

Observation wells and water-level data in area 35 - Aberdeen-Springfield.
Published reports: 5-7, 17, 24, 29, 31, 34, 63, 67, 69, 73, 74, and 89.

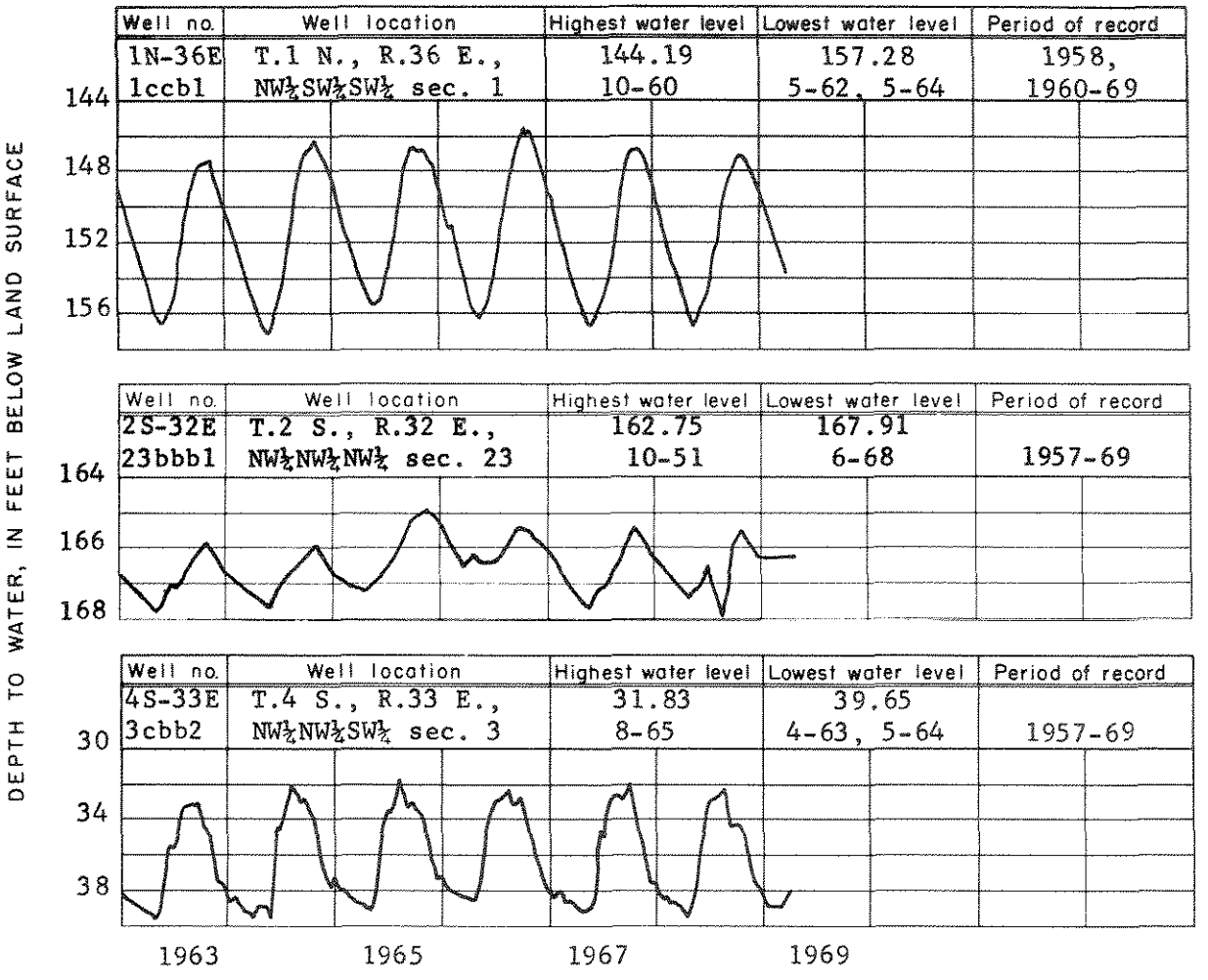
Well number	Date	Water level	Well number	Date	Water level
6N-36E-27baa1	3-24-69	183.26	4S-32E-9dcc1	3-22-69	b36.70
5N-36E-21dac1	4-23-69	256.80	4S-32E-13cbb1	3-22-69	16.77
5N-36E-23cbb1	4-23-69	6.45	4S-32E-28bcc1	3-22-69	2.33
3N-37E-2cbd1	3-25-69	170.83	4S-33E-3cbb2	3-20-69	38.72
2N-35E-2bbb1	3-22-69	577.98	4S-33E-15bba1	3-22-69	30.46
1N-29E-30bbd1	4-24-69	648.53	4S-33E-22cbd1	Discontinued	
1N-30E-10bbb1	3-21-69	549.81	5S-30E-12bba1	3-22-69	108.10
1N-36E-1ccb1	3-20-69	153.50	5S-31E-4dad1	3-22-69	48.76
1S-30E-15bca1	4-23-69	712.48	5S-31E-19ddc1	3-22-69	42.00
1S-33E-12cda1	4-23-69	241.05	5S-31E-27aba1	3-22-69	22.10
1S-35E-11cad1	4-23-69	173.24	5S-31E-35aab1	3-22-69	22.03
2S-32E-23bbb1	4-23-69	166.28	5S-32E-6dda1	3-22-69	0.97
2S-34E-33bba1	3-23-69	31.23	5S-32E-7ccc2	3-22-69	1.38
3S-32E-12bca1	3-23-69	98.10	5S-32E-18cdc1	3-22-69	+14.67
3S-33E-14bba1	3-23-69	40.84	6S-31E-7bab1	3-22-69	81.25
3S-33E-17aad1	3-23-69	94.09	6S-31E-11bcc1	3-22-69	30.04
3S-34E-8bab1	3-23-69	25.85	6S-31E-16baa1	3-22-69	15.81
3S-34E-19cdd1	3-22-69	46.5	6S-31E-30dad1	3-22-69	49.96
4S-31E-20bbb1	3-22-69	118.18	7S-30E-24ddc1	3-22-69	55.75
4S-31E-36aba1	3-22-69	5.23	7S-30E-28bbc1	4-22-69	196.88

b Indicates well pumped recently prior to measurement.

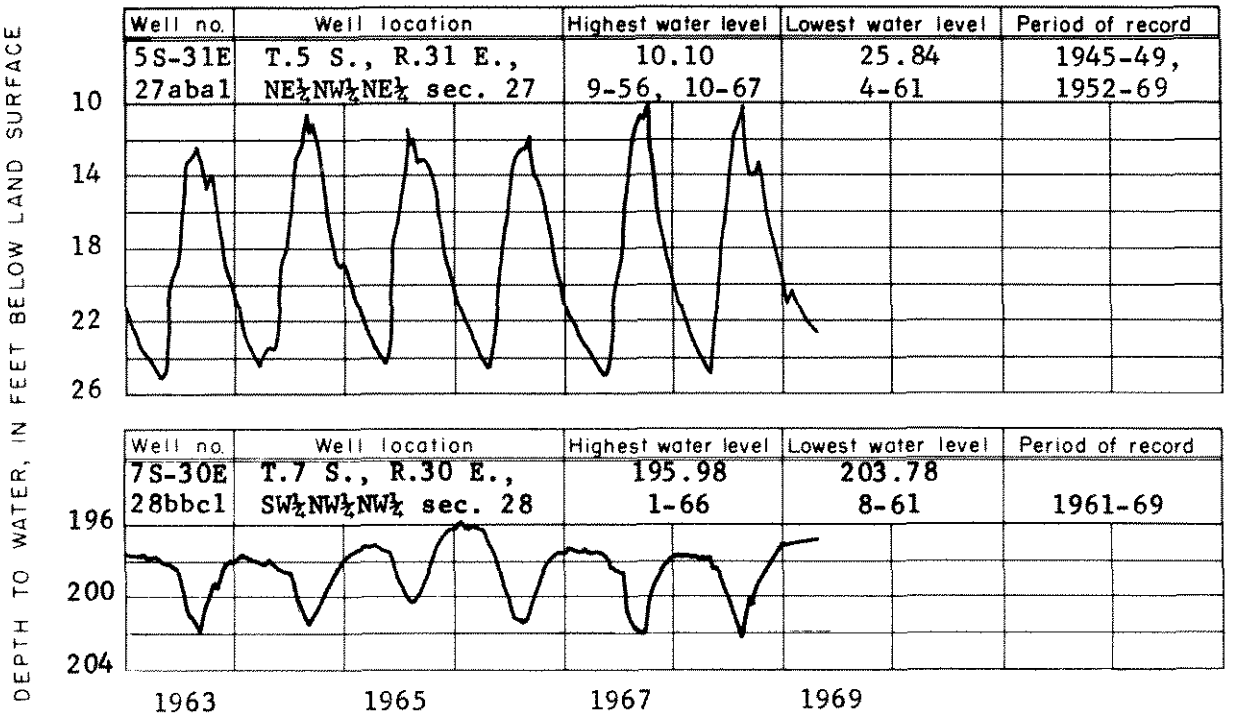
Water levels, in feet below or above (+) land surface, in area 35.



Representative water-level changes in area 35.



Representative water-level changes in area 35.



Representative water-level changes in area 35.

EXPLANATION

o 2addl

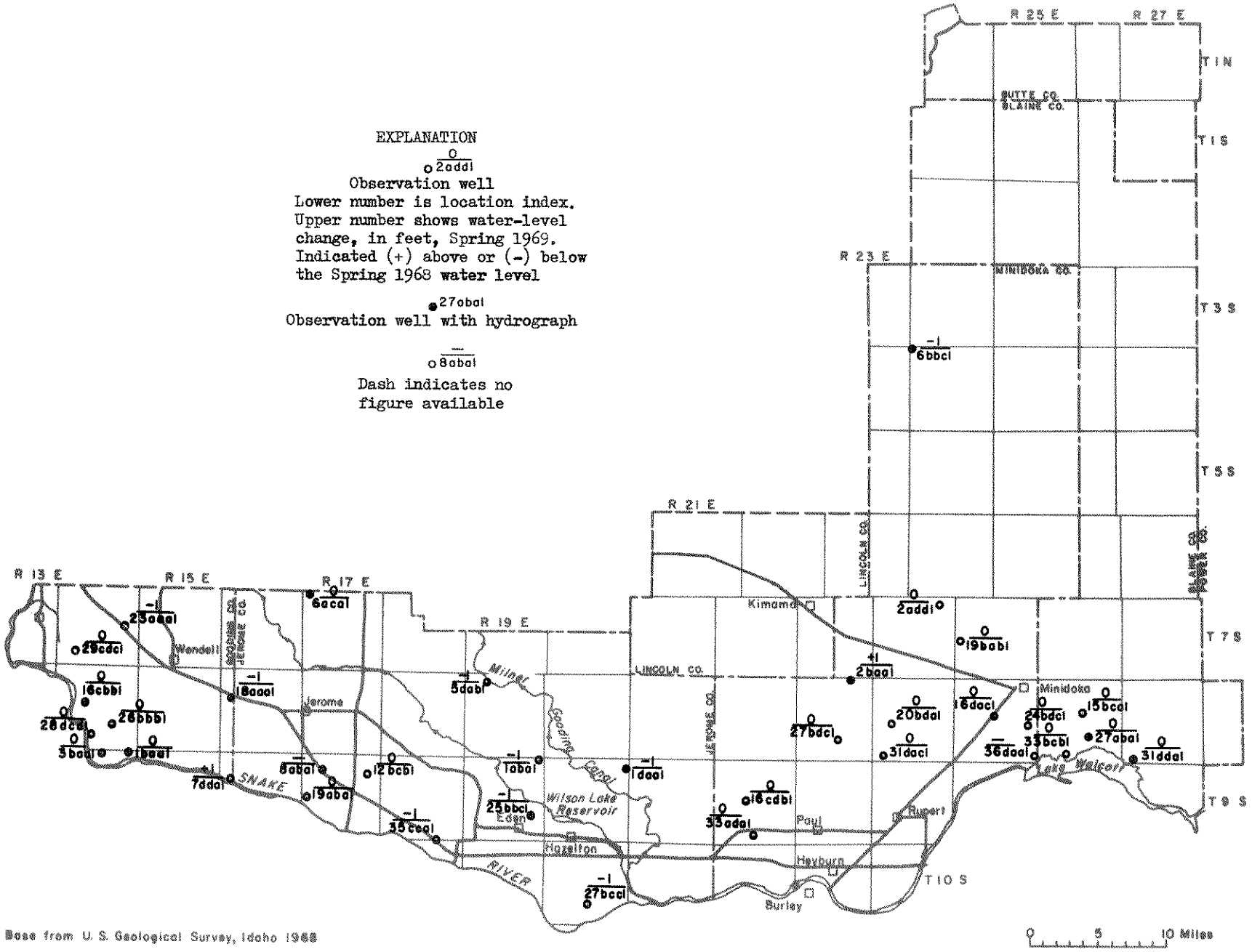
Observation well
Lower number is location index.
Upper number shows water-level change, in feet, Spring 1969.
Indicated (+) above or (-) below the Spring 1968 water level

27abal

Observation well with hydrograph

o 8abal

Dash indicates no figure available

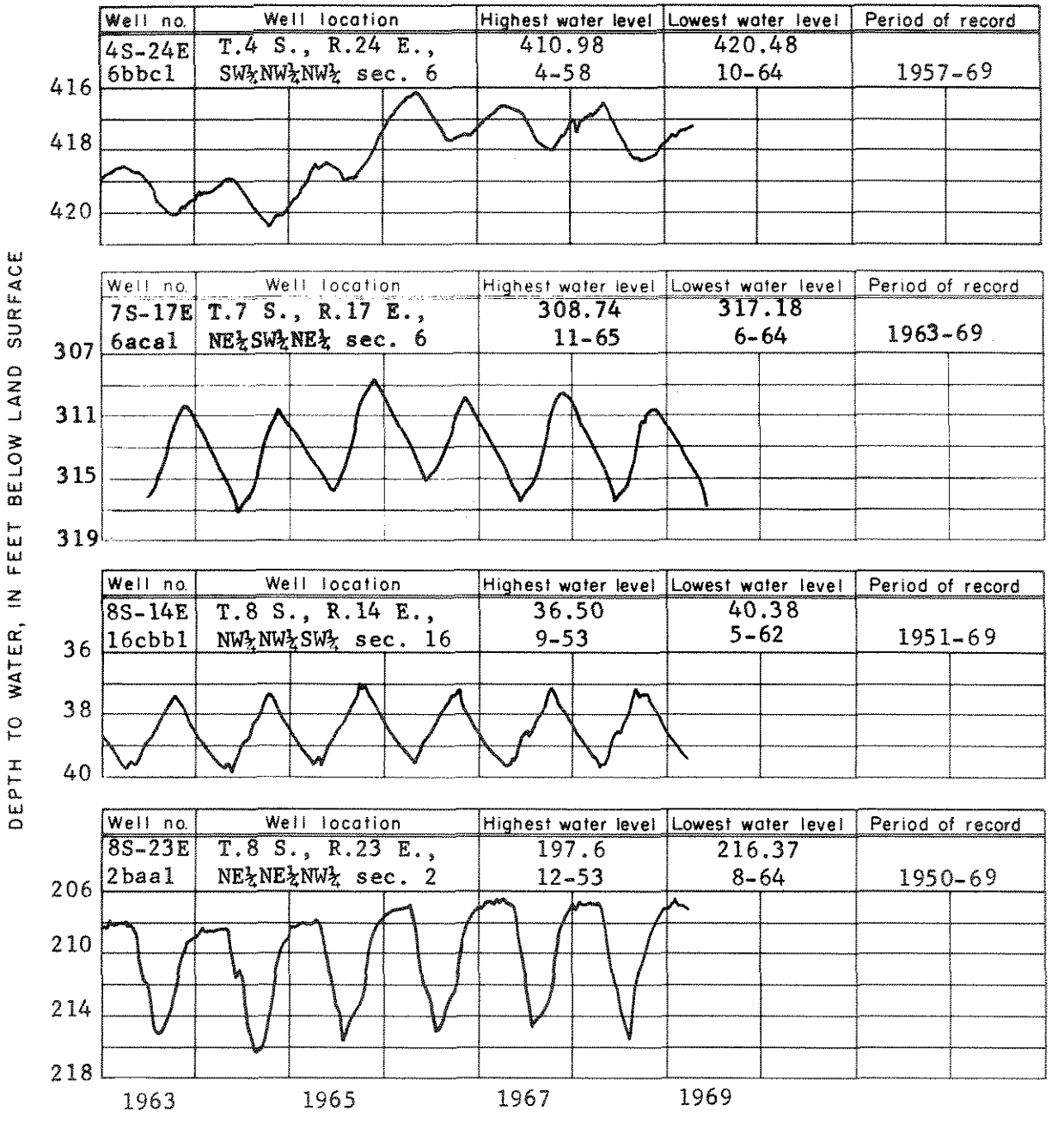


Observation wells and water-level data in area 36 - Minidoka-Jerome.
Published reports: 5, 6, 14, 16, 17, 24, 31, 34, 35, 42, 45, 52, 56, 61, 68-71, and 93.

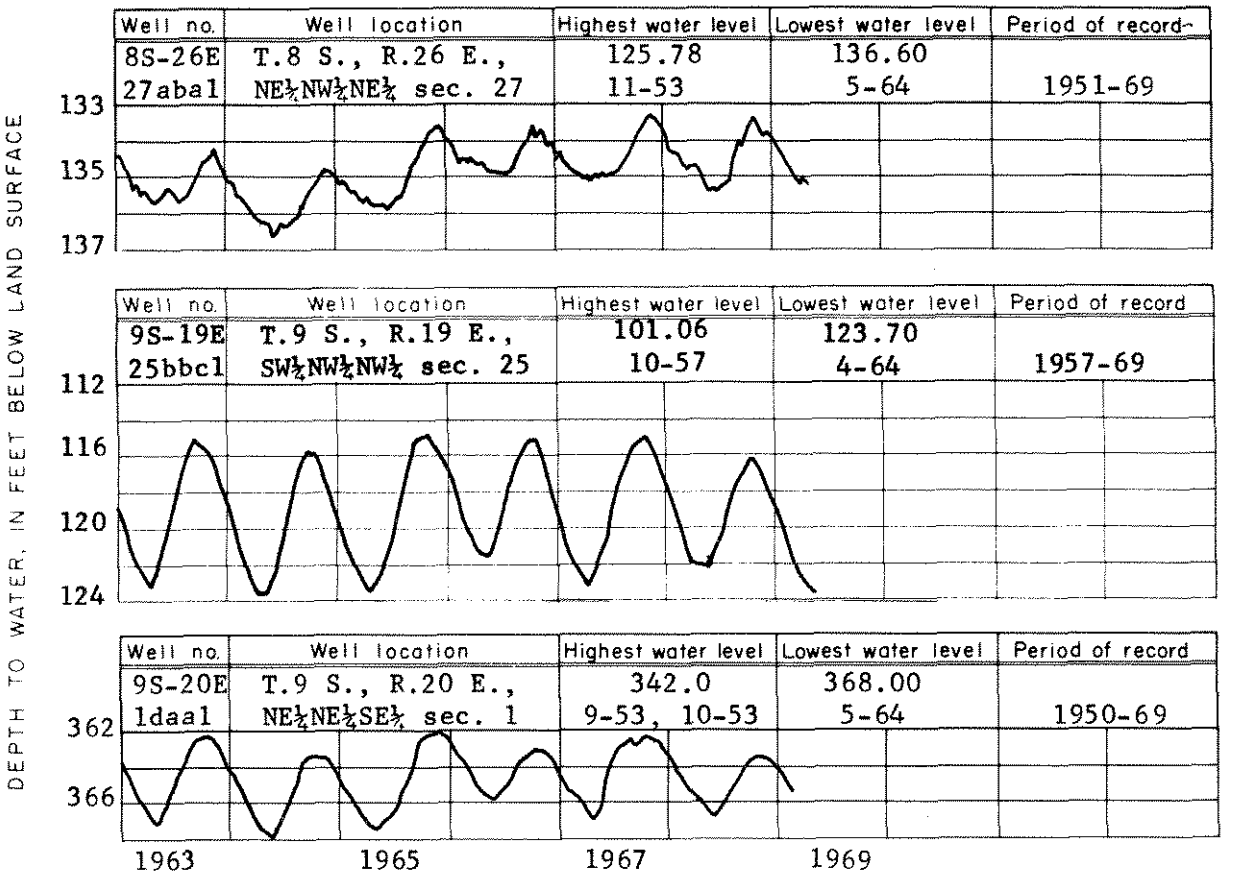
Well number	Date	Water level	Well number	Date	Water level
4S-24E-6bbc1	3-20-69	417.38	8S-26E-15bca1	3-20-69	178.12
7S-14E-23aaa1	3-17-69	140.47	8S-26E-27aba1	3-25-69	135.27
7S-14E-29cdc1	3-17-69	101.45	8S-26E-33bcb1	3-25-69	107.82
7S-17E-6aca1	3-20-69	314.11	8S-27E-31dda1	4-21-69	24.61
7S-24E-2add1	4-21-69	211.55	9S-14E-1baa1	3-17-69	84.79
7S-25E-19bab1	3-25-69	242.68	9S-14E-3baa1	3-17-69	73.77
8S-14E-16cbb1	3-17-69	39.48	9S-16E-7dda1	3-17-69	111.53
8S-14E-26bbb1	3-17-69	55.58	9S-17E-8aba1	3-19-69	b146.04
8S-14E-28dcd1	3-17-69	62.00	9S-17E-12bcb1	3-19-69	153.27
8S-16E-18aaa1	3-17-69	169.50	9S-17E-19aba1	3-19-69	96.77
8S-19E-5dab1	3-19-69	274.58	9S-18E-35cca1	3-19-69	141.94
8S-23E-2baa1	3-18-69	206.99	9S-19E-1aba1	3-19-69	202.97
8S-23E-27bdc1	3-20-69	184.42	9S-19E-25bbc1	3-19-69	122.95
8S-24E-20bda1	3-25-69	152.48	9S-20E-1daa1	4-18-69	367.28
8S-24E-31dac1	3-20-69	151.47	9S-22E-16cdb1	3-19-69	247.51
8S-25E-16dac1	3-20-69	159.25	9S-22E-33ada1	3-19-69	236.25
8S-25E-24bdc1	3-25-69	143.82	10S-20E-27bcc1	3-19-69	335.15
8S-25E-36daa1	-	-			

b Indicates well pumped recently prior to measurement.

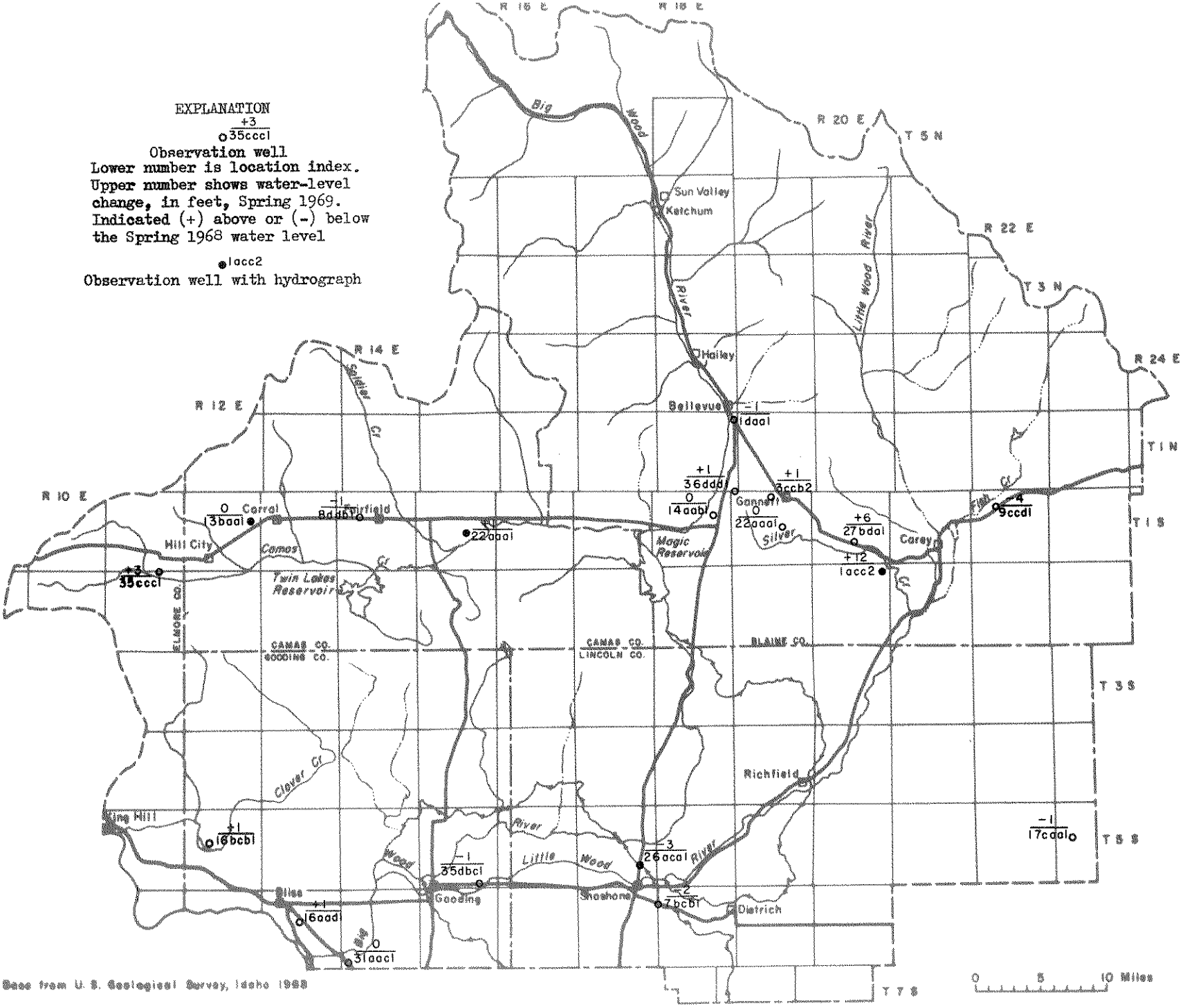
Water levels, in feet below land surface, in area 36.



Representative water-level changes in area 36.



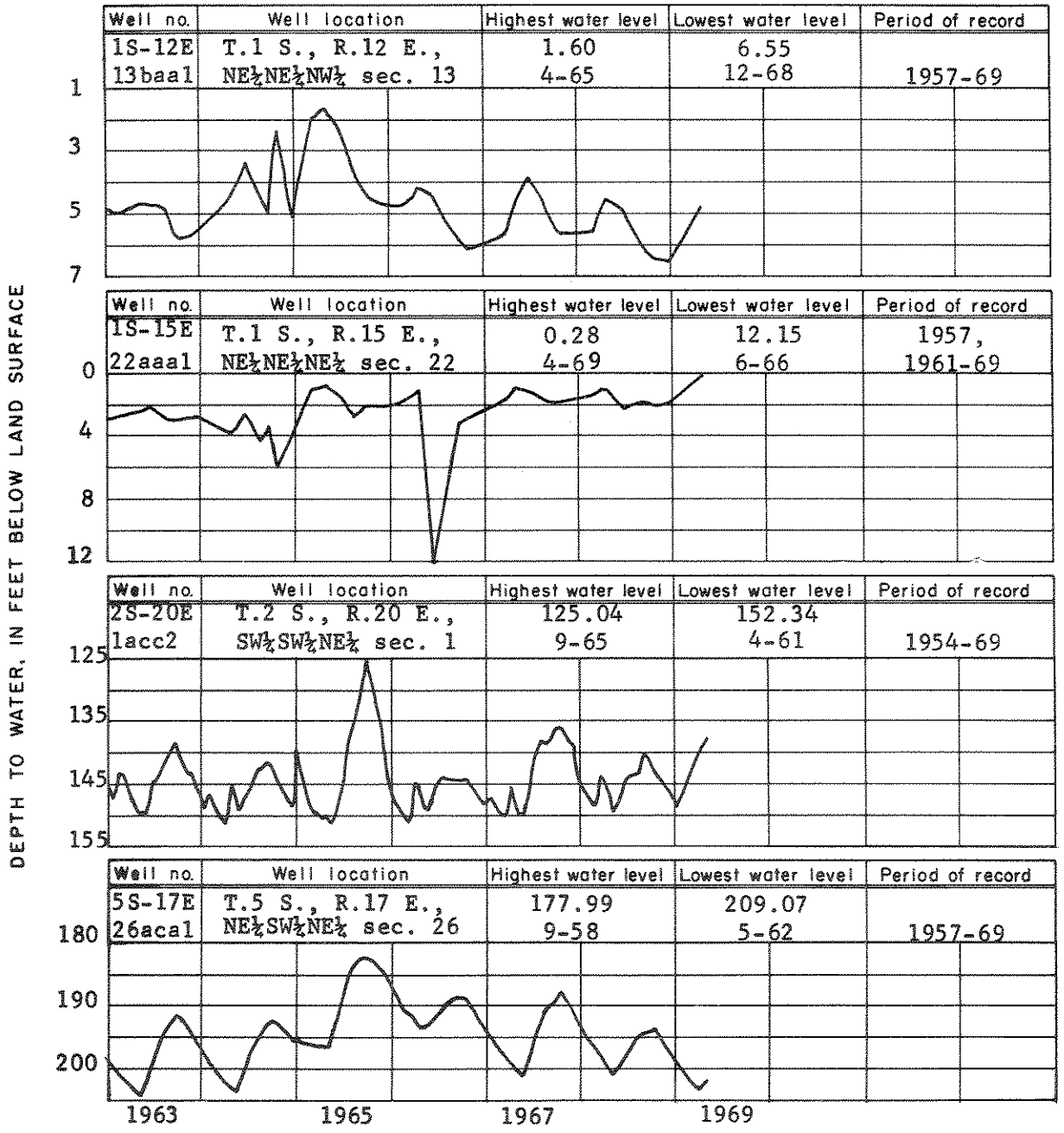
Representative water-level changes in area 36.



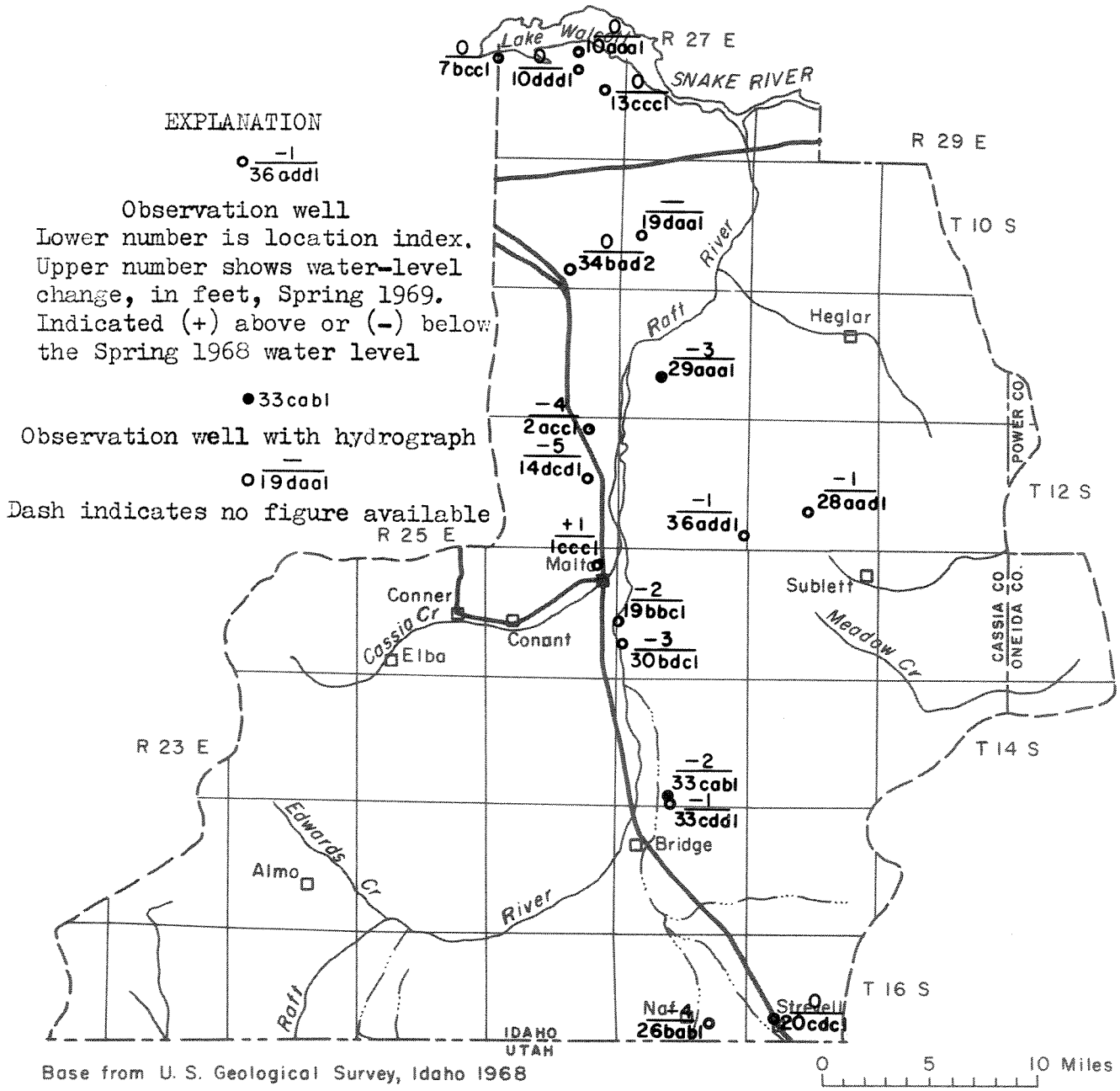
Observation wells and water-level data in area 37 - Wood Rivers.
Published reports: 5, 6, 14-17, 22, 24, 31, 34, 42, 45, 70, 71, 73, 74, and 93.

Well number	Date	Water level	Well number	Date	Water level
1N-18E-1daa1	3-27-69	50.23	1S-22E-9ccd1	3-27-69	72.71
1N-18E-36ddd1	3-27-69	29.20	2S-20E-1acc2	4-24-69	137.39
1S-11E-35ccc1	4-24-69	2.32	5S-12E-16bcb1	4-11-69	162.28
1S-12E-13baa1	4-24-69	4.77	5S-15E-35dbc1	3-27-69	140.60
1S-14E-8ddb1	4-24-69	+16.50	5S-17E-26aca1	3-20-69	203.12
1S-15E-22aaa1	4-24-69	0.28	5S-23E-17caa1	3-20-69	309.35
1S-18E-14aab1	3-27-69	+28.22	6S-13E-16aad1	4-11-69	161.93
1S-19E-3ccb2	3-27-69	17.45	6S-14E-31aac1	3-17-69	145.40
1S-19E-22aaa1	3-27-69	+6.31	6S-18E-7bcb1	3-27-69	175.57
1S-20E-27bda1	4-24-69	61.89			

Water levels, in feet below or above (+) land surface, in area 37.



Representative water-level changes in area 37.

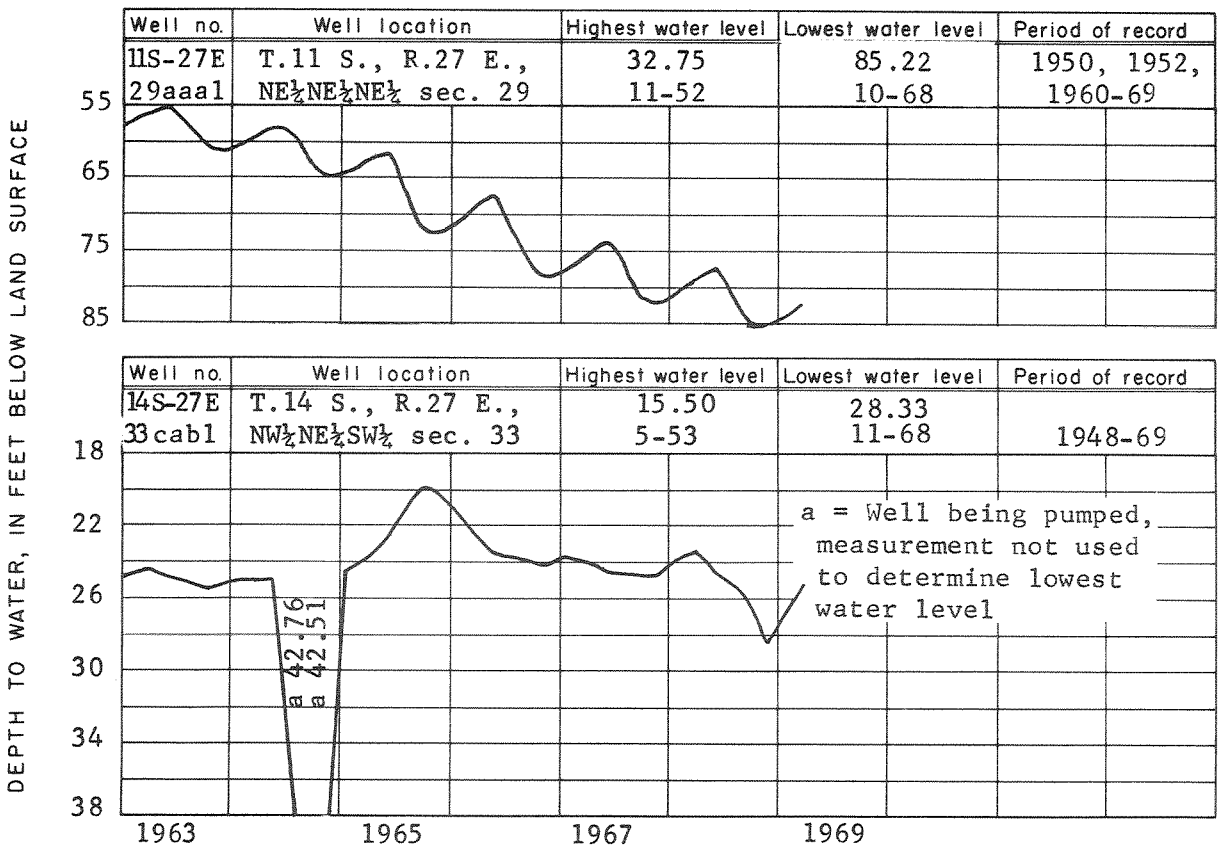


Observation wells and water-level data in area 43 - Raft River. Published reports: 5, 6, 10, 11, 17, 21, 23, 24, 31, 34, 47, 50, 51, 58, 59, and 69.

Well number	Date	Water level	Well number	Date	Water level
9S-26E-7bcc1	4-21-69	72.45	12S-27E-36add1	3-21-69	182.04
9S-26E-10aaa1	4-18-69	85.10	12S-28E-28aad1	3-21-69	279.80
9S-26E-10ddd1	4-18-69	81.45	13S-26E-1ccc1	3-21-69	34.28
9S-26E-13ccc1	3-20-69	144.57	13S-27E-19bbc1	3-21-69	18.94
10S-26E-34bad2	3-21-69	279.27	13S-27E-30bdc1	3-21-69	24.29
10S-27E-19daa1	3-21-69	a127.83	14S-27E-33cab1	3-21-69	25.10
11S-27E-29aaa1	3-20-69	82.21	14S-27E-33cdd1	3-20-69	39.85
12S-26E-2acc1	3-21-69	68.90	16S-27E-26bab1	3-21-69	28.05
12S-26E-14dcd1	3-21-69	108.86	16S-28E-20cdc1	3-21-69	147.48

a Indicates well being pumped during measurement.

Water levels, in feet below land surface, in area 43.



Representative water-level changes in area 43.

EXPLANATION

+1
10dccl

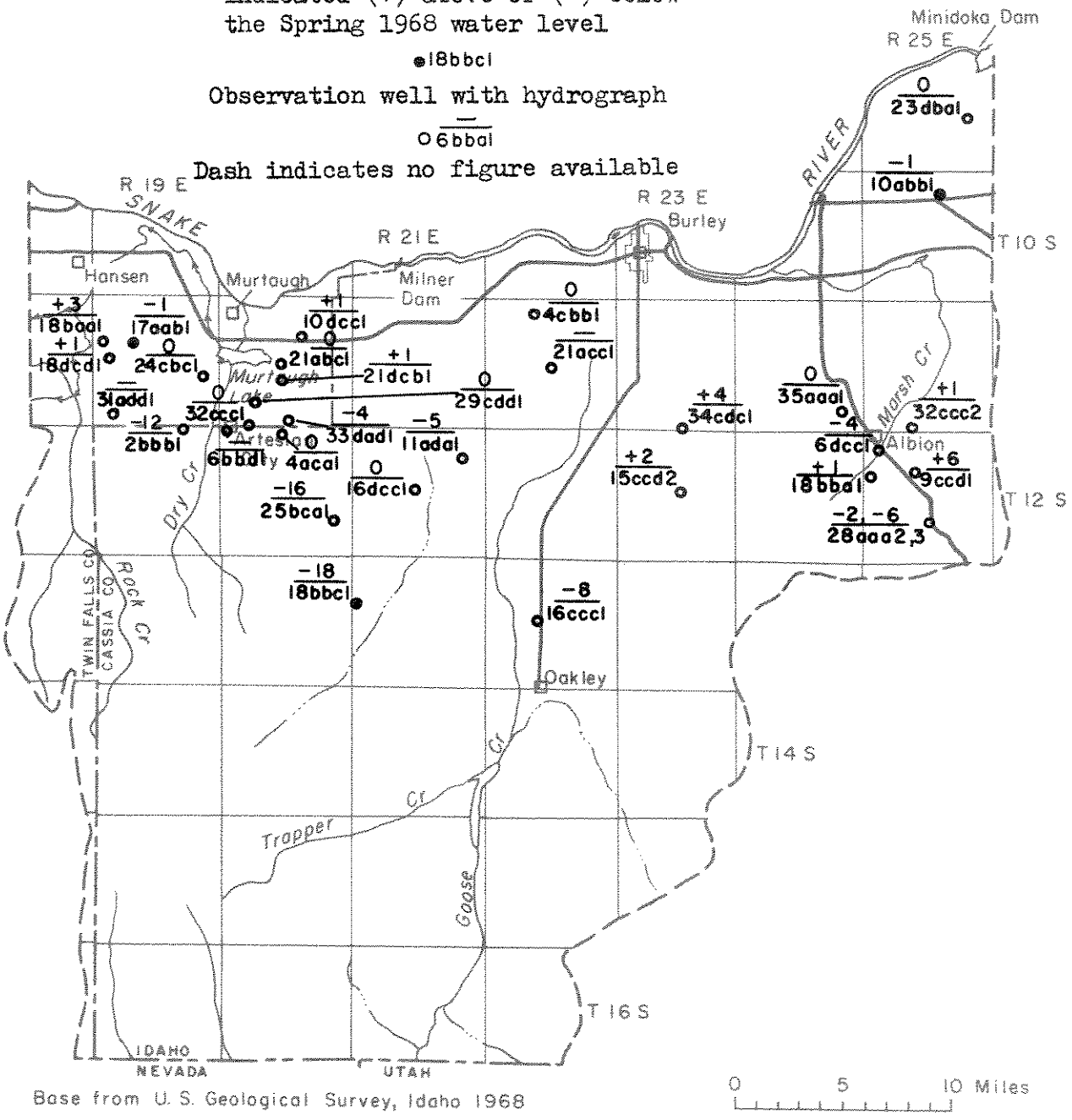
Observation well
Lower number is location index.
Upper number shows water-level change, in feet, Spring 1969.
Indicated (+) above or (-) below the Spring 1968 water level

18bbcl

Observation well with hydrograph

—
6bbal

Dash indicates no figure available

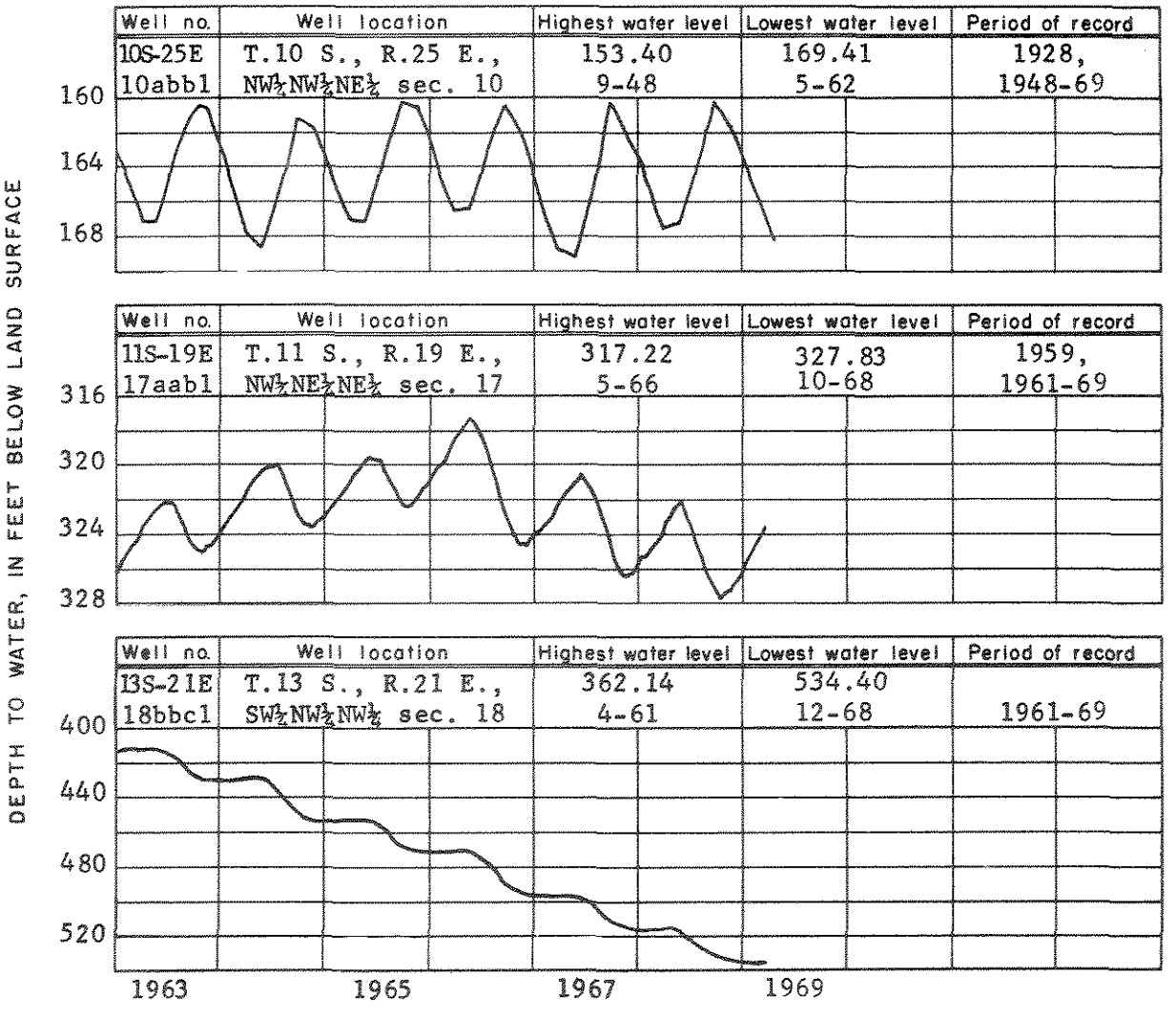


Base from U. S. Geological Survey, Idaho 1968

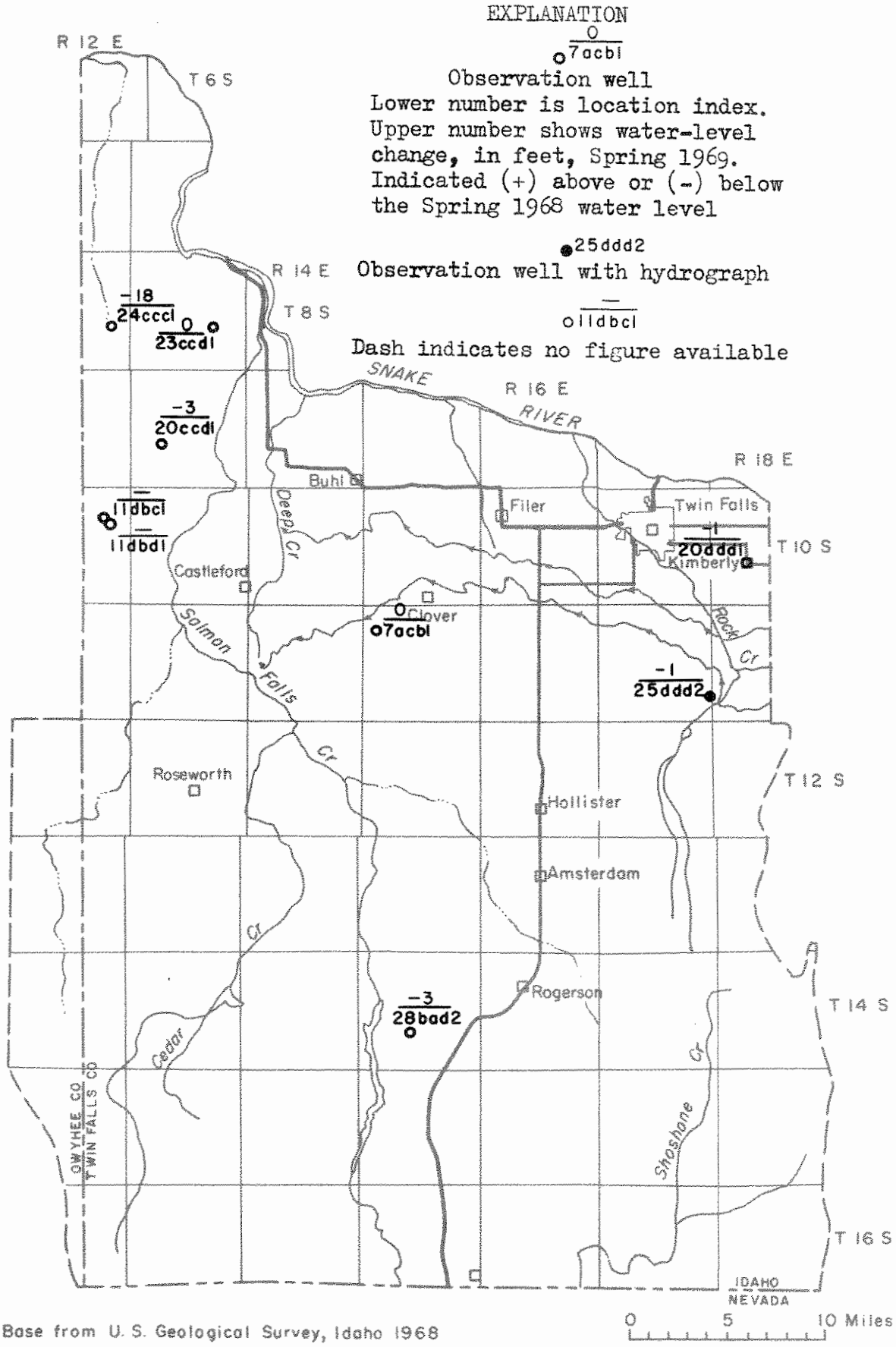
Observation wells and water-level data in area 45 - Goose Creek-Rock Creek.
Published reports: 5, 6, 11, 17, 24, 31, 34, 42, 44, 45, 60, and 64.

Well number	Date	Water level	Well number	Date	Water level
9S-25E-23dba1	4-18-69	130.65	11S-24E-35aaa1	4-15-69	170.84
10S-25E-10abb1	4-22-69	168.11	11S-25E-32ccc2	4-16-69	25.43
11S-19E-17aab1	3-18-69	323.56	12S-19E-2bbb1	3-18-69	262.33
11S-19E-18baa1	3-18-69	239.36	12S-20E-4aca1	3-18-69	214.19
11S-19E-18dcd1	3-18-69	199.96	12S-20E-6bbd1	-	-
11S-19E-24cbc1	3-18-69	173.61	12S-20E-25bca1	3-18-69	258.76
11S-19E-31add1	3-18-69	147.30	12S-21E-11ada1	3-19-69	352.53
11S-20E-10dcc1	3-18-69	148.63	12S-21E-16dcc1	3-19-69	107.10
11S-20E-21abc1	3-18-69	71.15	12S-23E-15ccd2	3-20-69	59.29
11S-20E-21dcb1	3-18-69	72.39	12S-25E-6dcc1	4-16-69	8.80
11S-20E-29cdd1	3-18-69	105.98	12S-25E-9ccd1	4-16-69	105.14
11S-20E-32ccc1	3-18-69	144.27	12S-25E-18bba1	4-16-69	50.14
11S-20E-33dad1	3-18-69	166.63	12S-25E-28aaa2	4-16-69	9.33
11S-22E-4cbb1	3-20-69	352.96	12S-25E-28aaa3	4-16-69	116.10
11S-22E-21acc1	-	-	13S-21E-18bbc1	3-19-69	533.35
11S-23E-34cdc1	3-20-69	320.30	13S-22E-16ccc1	3-20-69	103.59

Water levels, in feet below land surface, in area 45.



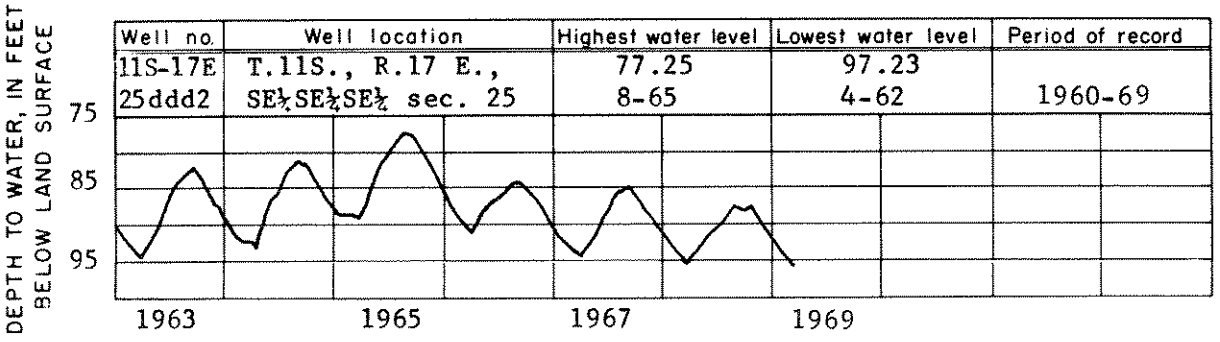
Representative water-level changes in area 45.



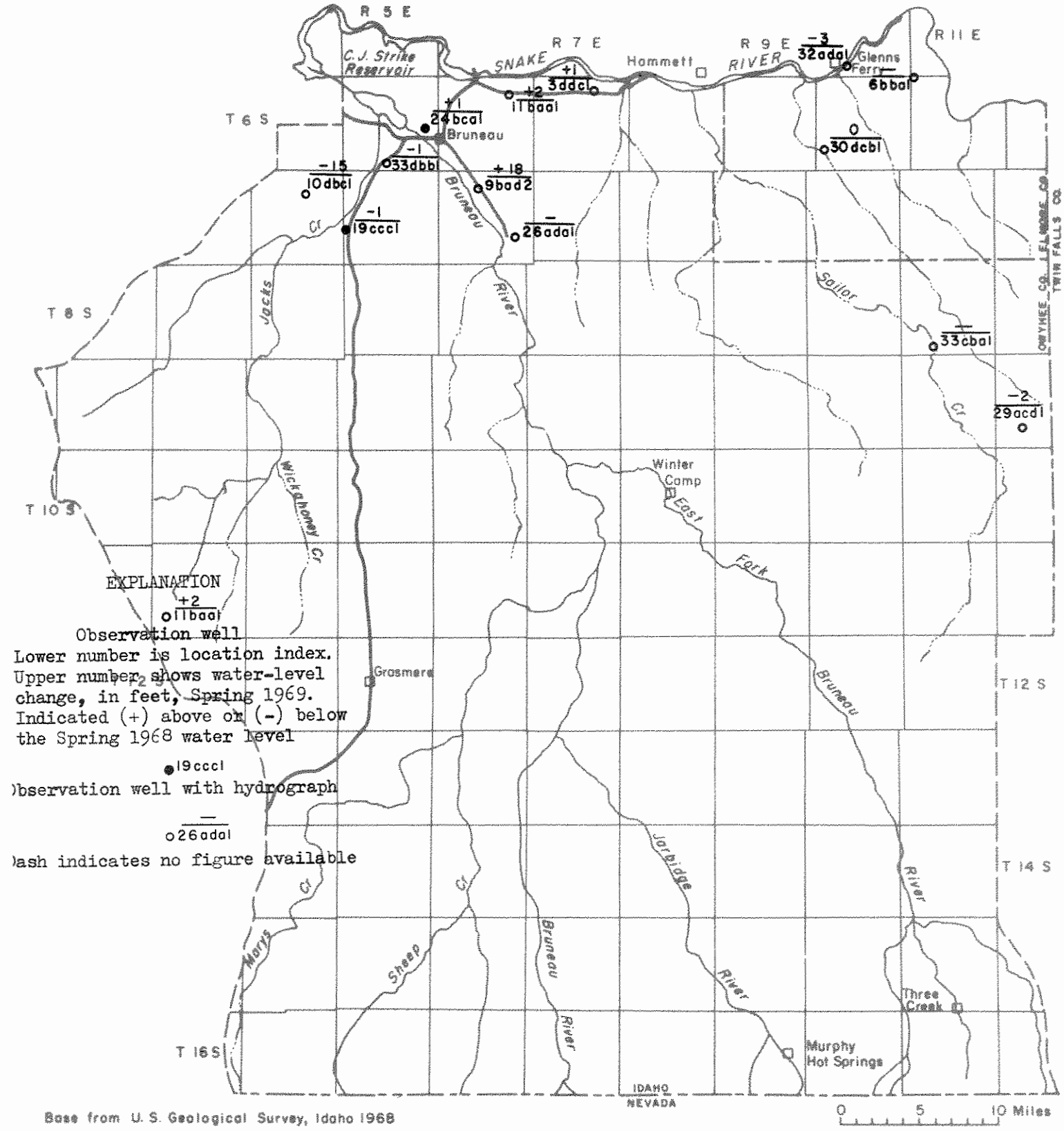
Observation wells and water-level data in area 47 - Salmon Falls Creek.
Published reports: 5, 6, 11, 14, 17, 24, 31, 34, 36, 38, 42, 44, 45, 60, 72, and 78.

Well number	Date	Water level	Well number	Date	Water level
8S-12E-24ccc1	4-10-69	241.75	10S-18E-20ddd1	3-18-69	171.16
8S-13E-23ccd1	4-10-69	70.80	11S-15E-7acb1	3-18-69	234.07
9S-13E-20ccd1	4-10-69	443.92	11S-17E-25ddd2	3-18-69	95.93
10S-12E-11dbc1	Discontinued		14S-15E-28bad2	3-18-69	107.02
10S-12E-11dbd1	4-10-69	331.86			

Water levels, in feet below land surface, in area 47.



Representative water-level changes in area 47.



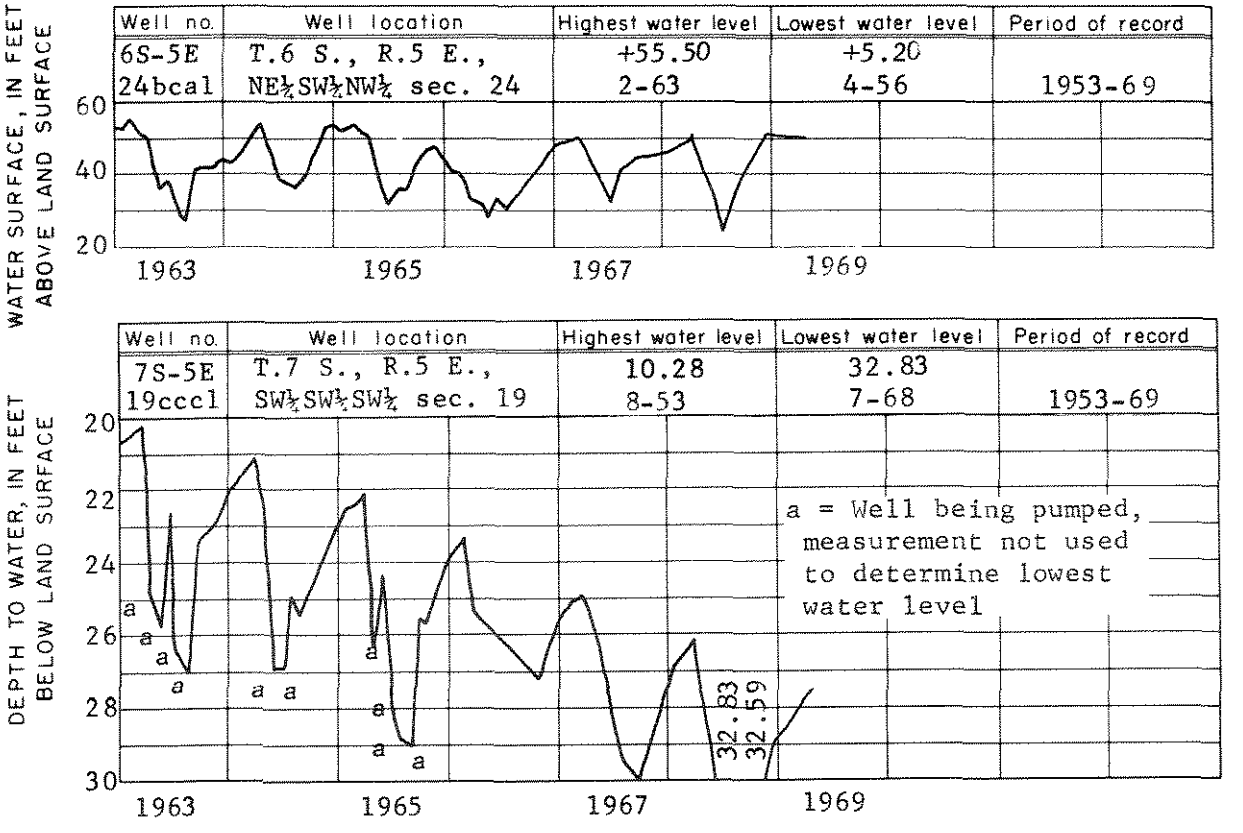
Observation wells and water-level data in area 51 - Bruneau River.
Published reports: 3, 12, 14, 24, 32, 34, 38, and 78.

Well number	Date	Water level	Well number	Date	Water level
5S-10E-32ada1	4-11-69	+36.20	7S-4E-10dbc1	4-15-69	72.45
6S-5E-24bca1	4-15-69	+50.50	7S-5E-19ccc1	4-15-69	27.57
6S-5E-33dbb1	4-15-69	4.29	7S-6E-9bad2	4-15-69	+47.45
6S-6E-11baa1	4-15-69	58.41	7S-6E-26ada1	Discontinued	
6S-7E-3ddc1	4-11-69	37.10	8S-11E-33cba1	4-10-69	a179.12
6S-10E-30dcb1	4-11-69	251.35	9S-12E-29acd1 *	4-10-69	197.10
6S-11E-6bba1	4-11-69	113.83			

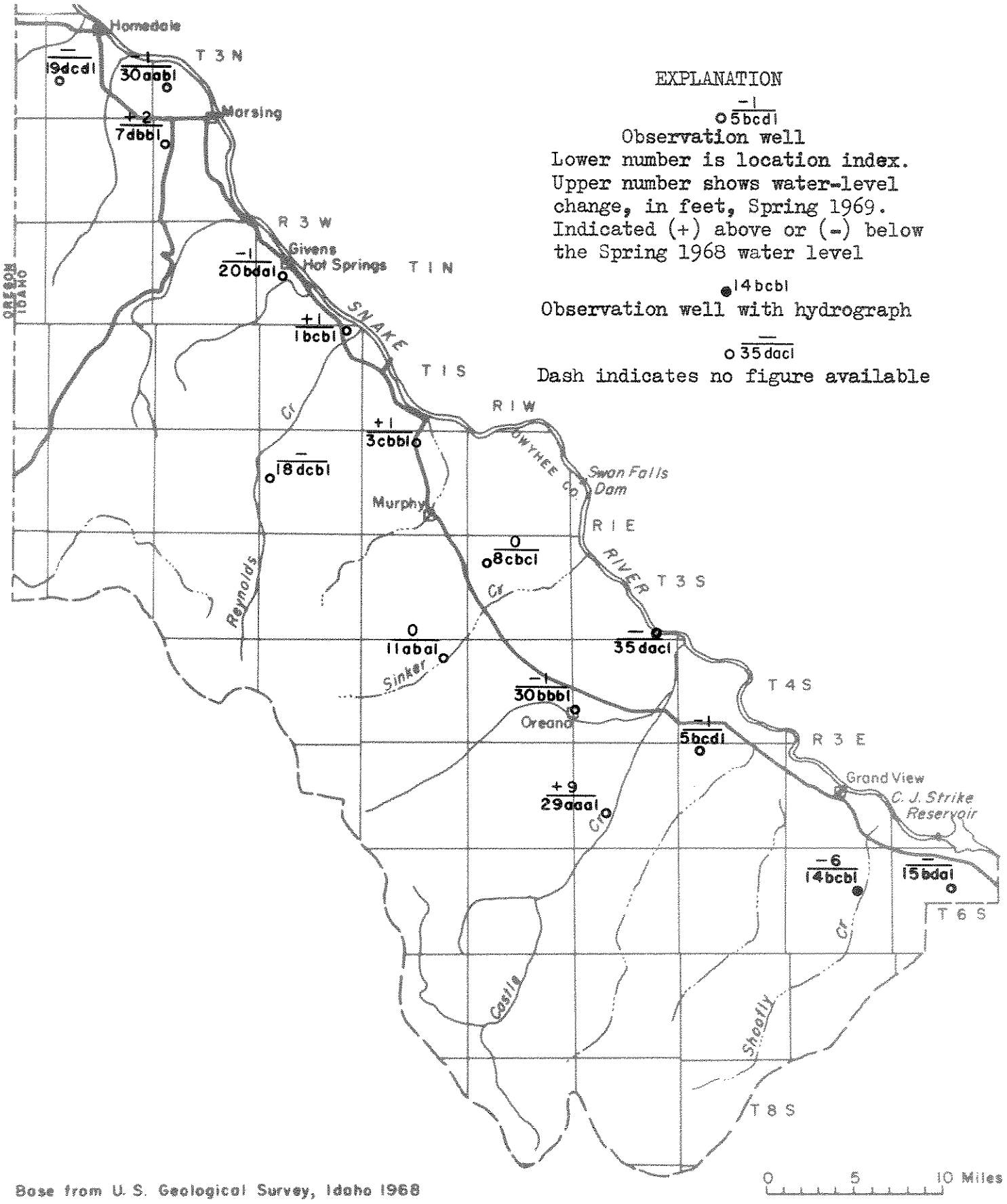
* Formerly 29dba1.

a Indicates well being pumped during measurement.

Water levels, in feet below or above (+) land surface, in area 51.



Representative water-level changes in area 51.



Observation wells and water-level data in area 57 - Grand View to Homedale.
Published reports: 3, 9, 12, 24, 32, 34, and 38.

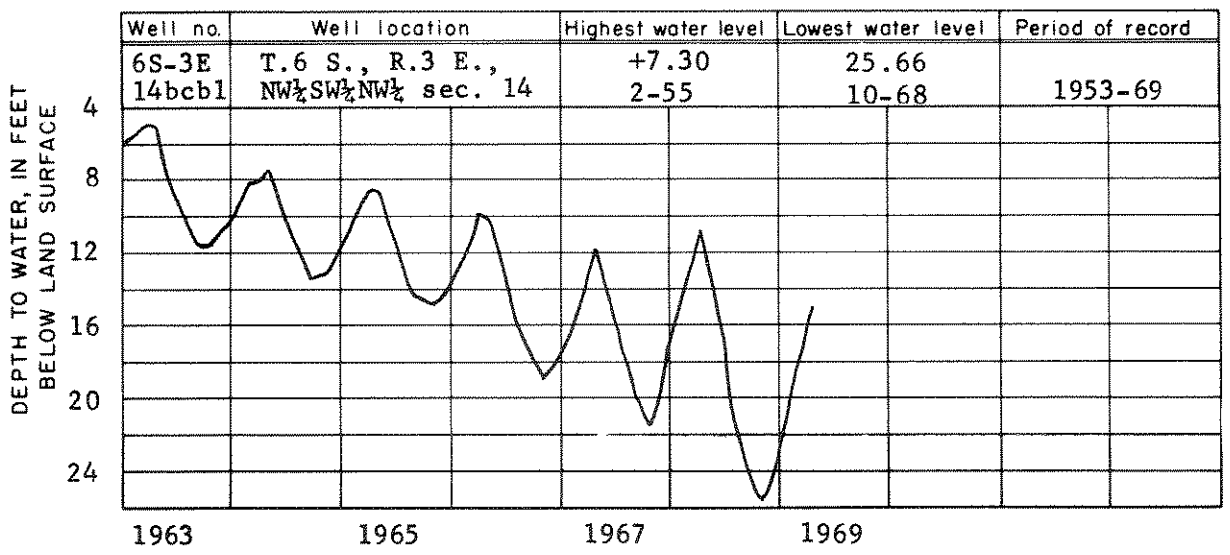
Well number	Date	Water level	Well number	Date	Water level
3N-5W-19dcd1	4-14-69	a64.45	3S-1E-35dac1	4-16-69	b13.78
3N-4W-30aab1	4-14-69	55.61	4S-2W-11aba1	4-16-69	3.14
2N-4W-7dbb1	4-14-69	86.85	4S-1E-30bbb1	4-16-69	32.29
1N-3W-20bda1 *	4-16-69	37.39	5S-1E-29aaa1	4-15-69	31.52
1S-3W-1bcb1	4-15-69	+8.71	5S-2E-5bcd1	4-15-69	+43.60
2S-3W-18dcb1	-	-	6S-3E-14bcb1	3-20-69	16.67
2S-2W-3cbb1	4-16-69	29.71	6S-4E-15bda1	4-16-69	a89.23
3S-1W-8cbc1	4-16-69	412.58			

* Formerly 20bdd1.

a Indicates well being pumped during measurement.

b Indicates well pumped recently prior to measurement.

Water levels, in feet below or above (+) land surface, in area 57.



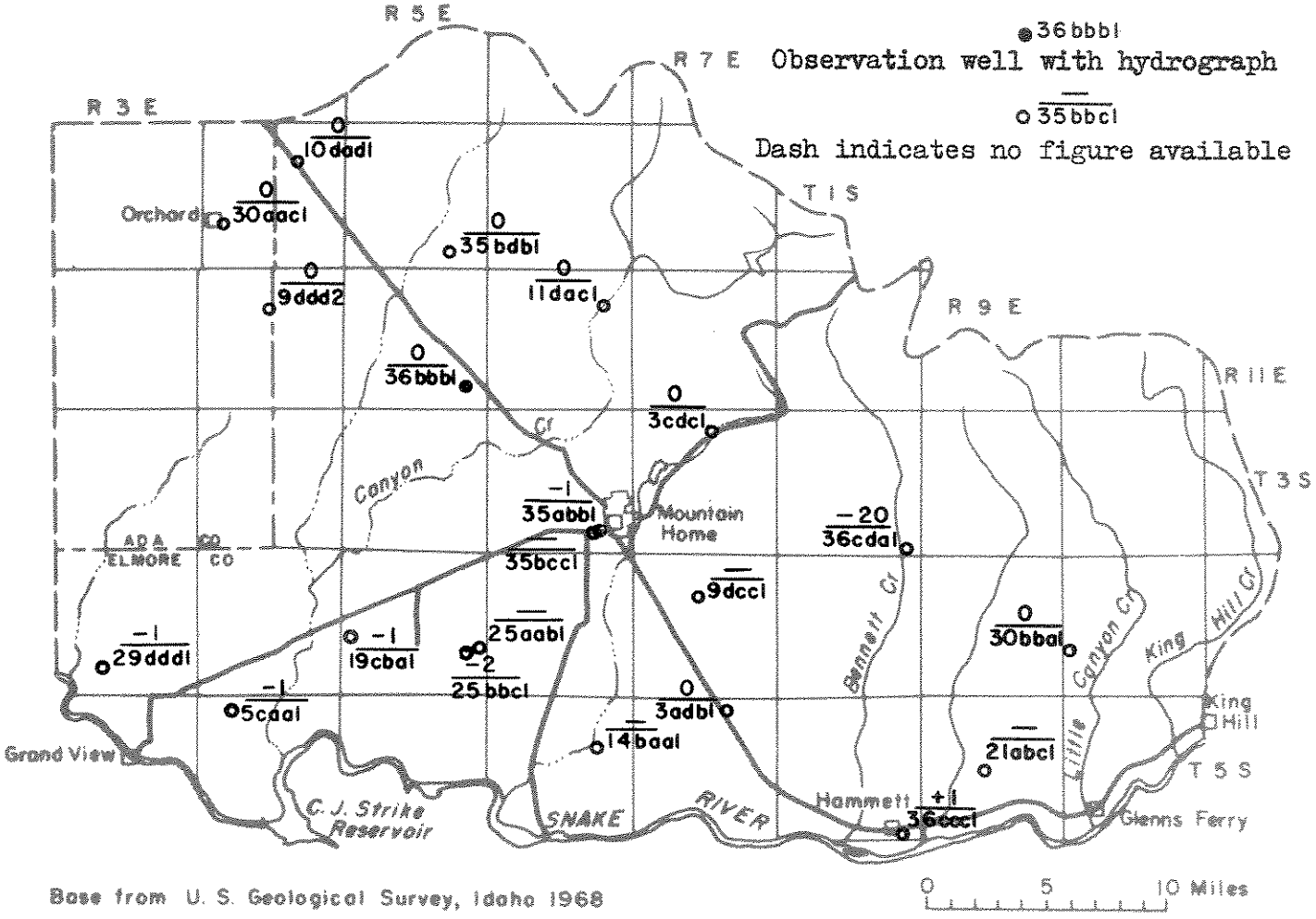
Representative water-level changes in area 57.

EXPLANATION

-1
29dddl
Observation well
Lower number is location index.
Upper number shows water-level change, in feet, Spring 1969.
Indicated (+) above or (-) below the Spring 1968 water level

36bbbl
Observation well with hydrograph

—
35bbcl
Dash indicates no figure available

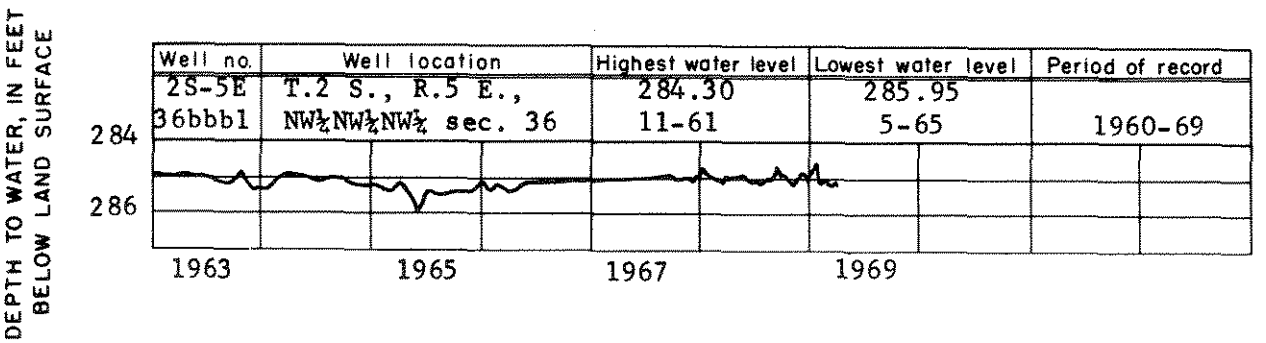


Observation wells and water-level data in area 61 - Mountain Home.
Published reports: 3, 12, 24, 32, 34, 38, and 40.

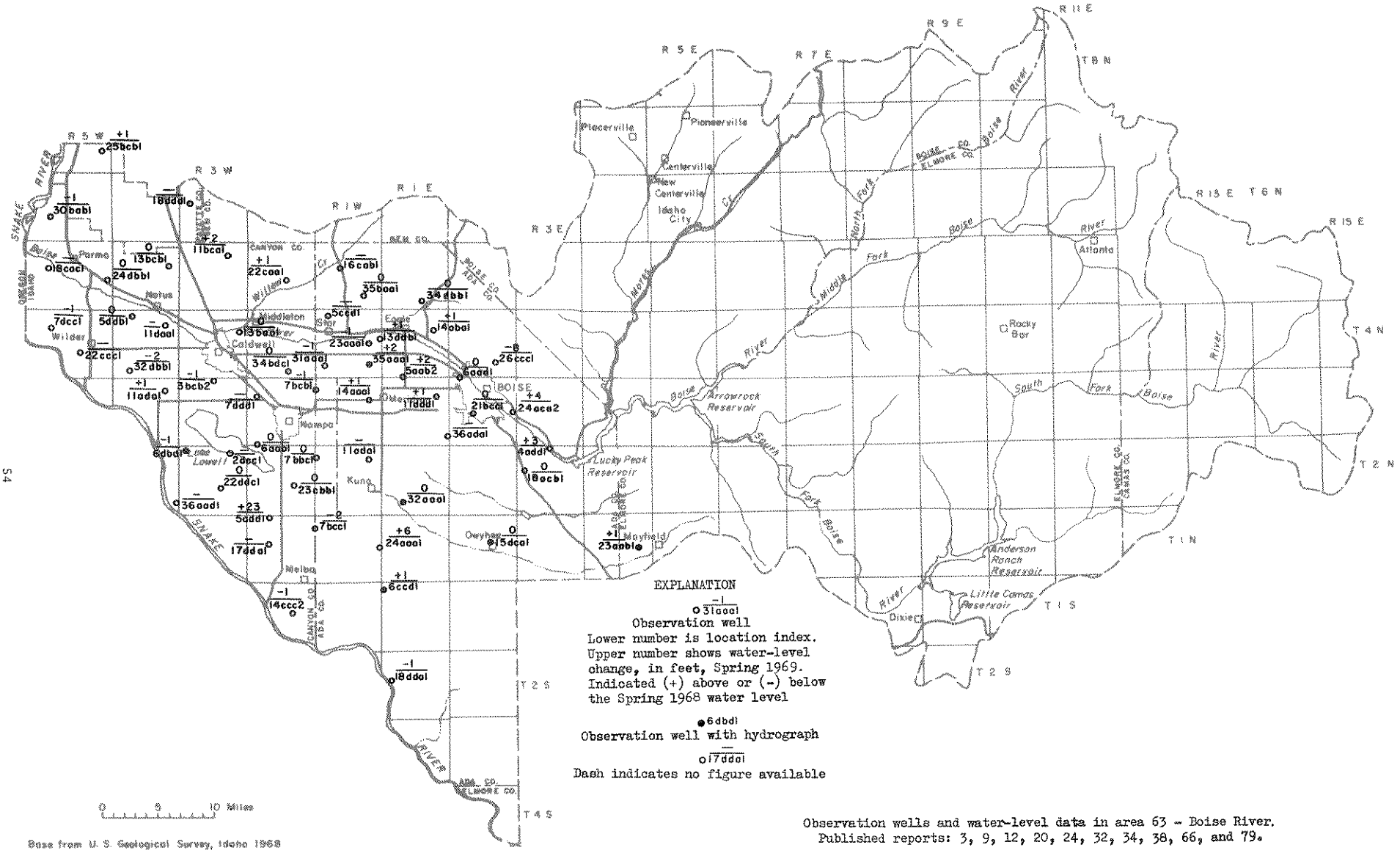
Well number	Date	Water level	Well number	Date	Water level
1S-4E-10dad1	4-14-69	341.57	4S-5E-19cba1	4-14-69	323.42
1S-4E-30aac1	3-20-69	487.29	4S-5E-24aab1	4-14-69	388.22
1S-5E-35bdb1	4-14-69	161.50	4S-5E-25bbc1	4-14-69	362.80
2S-4E-9ddd2	4-18-69	421.26	4S-7E-9dcc1	4-14-69	370.27
2S-5E-36bbb1	3-20-69	285.24	4S-10E-30bba1	4-11-69	257.70
2S-6E-11dac1	4-14-69	107.50	5S-4E-5caa1	4-15-69	177.76
3S-6E-35abb1	4-14-69	a9.31	5S-6E-14baa1	4-14-69	380.48
3S-6E-35bcc1	4-14-69	388.89	5S-7E-3adb1	4-14-69	410.62
3S-7E-3cdc1	4-14-69	33.53	5S-8E-36ccc1	4-11-69	62.45
3S-8E-36cda1	4-14-69	+109.70	5S-9E-21abc1	4-11-69	501.18
4S-3E-29ddd1	4-15-69	21.93			

a Indicates well being pumped during measurement.

Water levels, in feet below or above (+) land surface, in area 61.



Representative water-level changes in area 61.



Observation wells and water-level data in area 63 - Boise River.
Published reports: 3, 9, 12, 20, 24, 32, 34, 38, 66, and 79.

Well number	Date	Water level	Well number	Date	Water level
7N-5W-25bcb1	4-9-69	58.18	3N-1W-7bcb1	4-21-69	4.62
6N-5W-30bab1	4-9-69	30.00	3N-1W-14aaa1	4-17-69	11.96
6N-3W-18ddd1	4-9-69	142.49	3N-1E-5aab2	3-28-69	12.00
5N-5W-18cac1	4-10-69	a13.14	3N-1E-11ddd1	4-21-69	4.47
5N-5W-24dbb1	3-20-69	9.93	3N-1E-36ada1	4-21-69	122.64
5N-4W-13bcb1	4-11-69	19.44	3N-2E-6aad1	4-21-69	32.18
5N-3W-11bca1	4-22-69	160.58	3N-2E-21bcc1	4-21-69	12.44
5N-2W-22caa1	4-22-69	184.41	3N-2E-24aca2	4-21-69	36.27
5N-1W-16cab1	4-22-69	b190.43	2N-4W-36aad1	-	-
5N-1W-35baa1	4-22-69	61.59	2N-3W-2dcc1	p	
5N-1E-34dbb1	4-22-69	29.74	2N-3W-6dbd1	4-14-69	216.16
4N-5W-7dcc1	4-22-69	13.40	2N-3W-22ddc1	4-14-69	314.30
4N-5W-22ccc1	4-22-69	a18.60	2N-2W-6aab1	4-15-69	66.28
4N-4W-5ddb1	4-11-69	+3.52	2N-2W-23cbb1	4-15-69	109.08
4N-4W-11daa1	4-11-69	7.93	2N-1W-7bbc1	3-20-69	12.43
4N-4W-32dbb1	4-11-69	39.63	2N-1W-11ada1	4-17-69	a90.85
4N-3W-13baa1	4-11-69	+6.51	2N-1E-32aaa1	4-17-69	62.27
4N-2W-34bdc1 *	4-11-69	12.44	2N-3E-4add1	4-21-69	32.08
4N-1W-5ccd1	Discontinued		2N-3E-18acb1	4-21-69	391.27
4N-1W-13ddb1	4-17-69	+8.64	1N-2W-5add1	4-15-69	132.68
4N-1W-23aaa1	4-17-69	+13.71	1N-2W-17dda1	-	-
4N-1W-31aaa1	4-21-69	+29.83	1N-1W-7bcc1	4-15-69	254.60
4N-1W-35aaa1	3-20-69	8.91	1N-1W-24aaa1	4-17-69	299.67
4N-1E-14aba1	4-22-69	26.44	1N-2E-15dca1	4-21-69	362.00
4N-2E-26ccc1	4-22-69	92.14	1N-4E-23aab1	4-14-69	26.49
3N-4W-11ada1	3-20-69	12.48	1S-2W-14ccc2	4-16-69	48.12
3N-3W-3bcb2	4-11-69	15.81	1S-1E-6ccd1	4-17-69	434.73
3N-2W-7ddd1	4-11-69	b10.12	2S-1E-18dda1	4-16-69	11.56

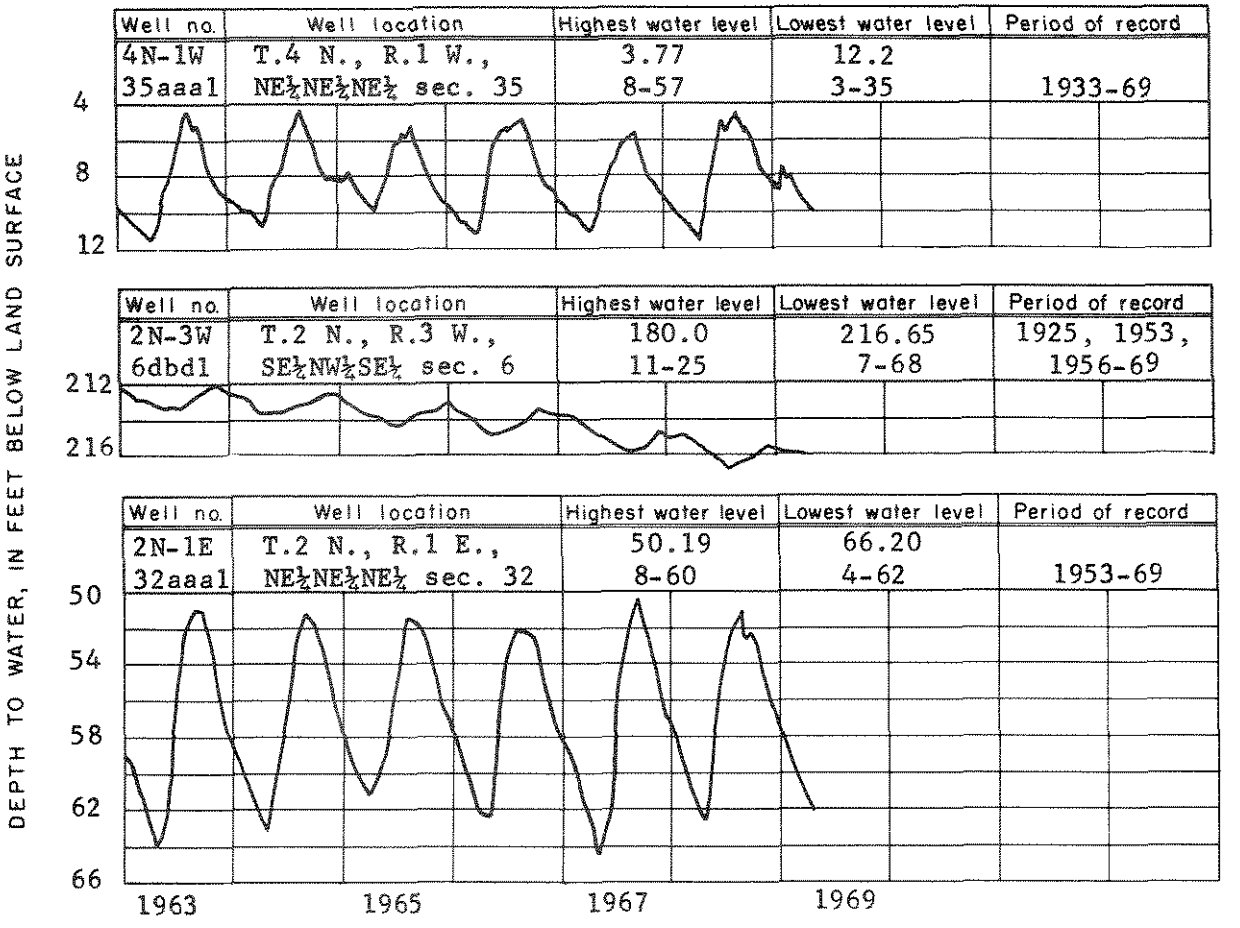
* Formerly 34dbc1.

a Indicates well being pumped during measurement.

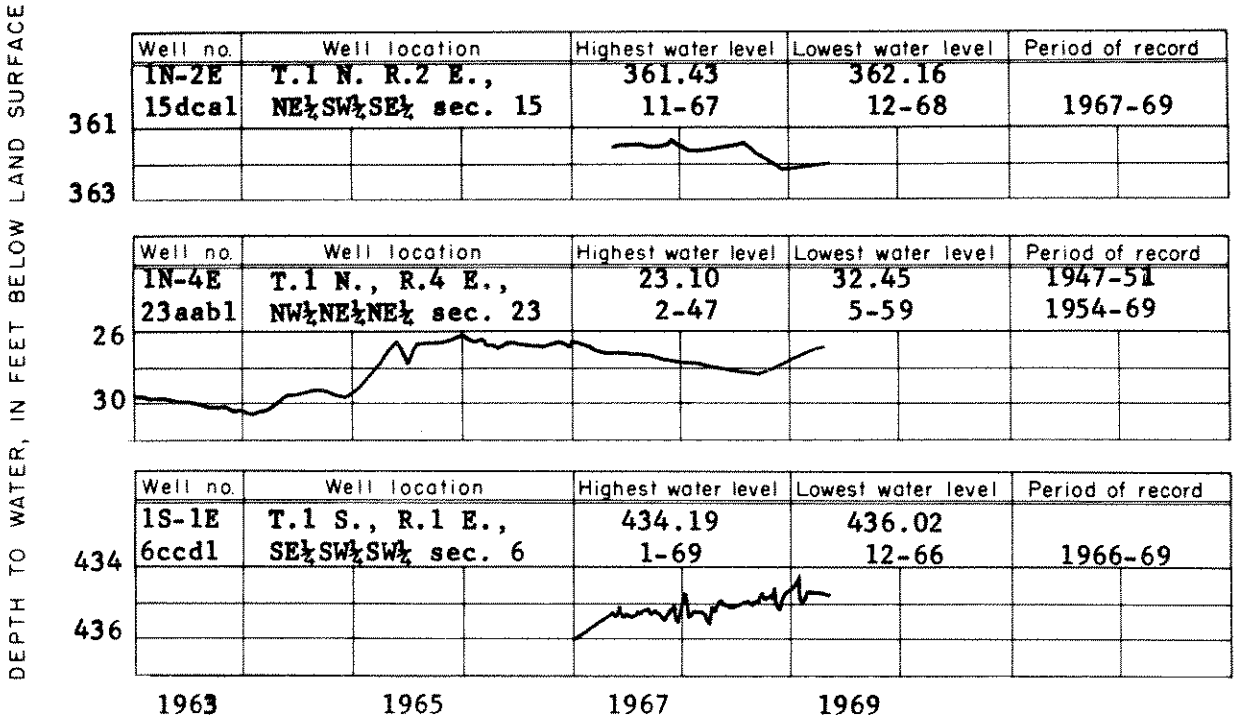
b Indicates well pumped recently prior to measurement.

p Indicates well destroyed

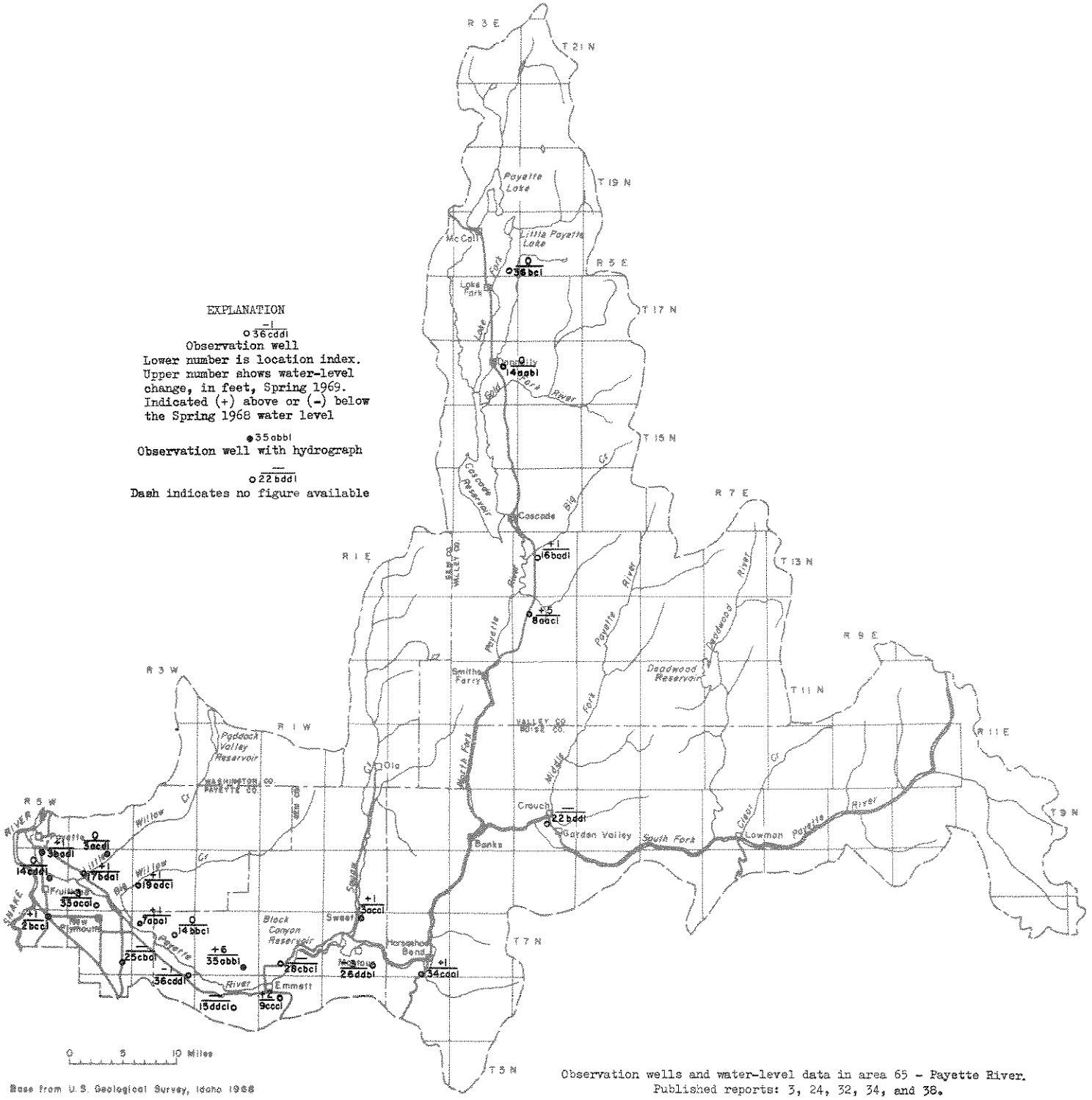
Water levels, in feet below or above (+) land surface, in area 63.



Representative water-level changes in area 63.



Representative water-level changes in area 63



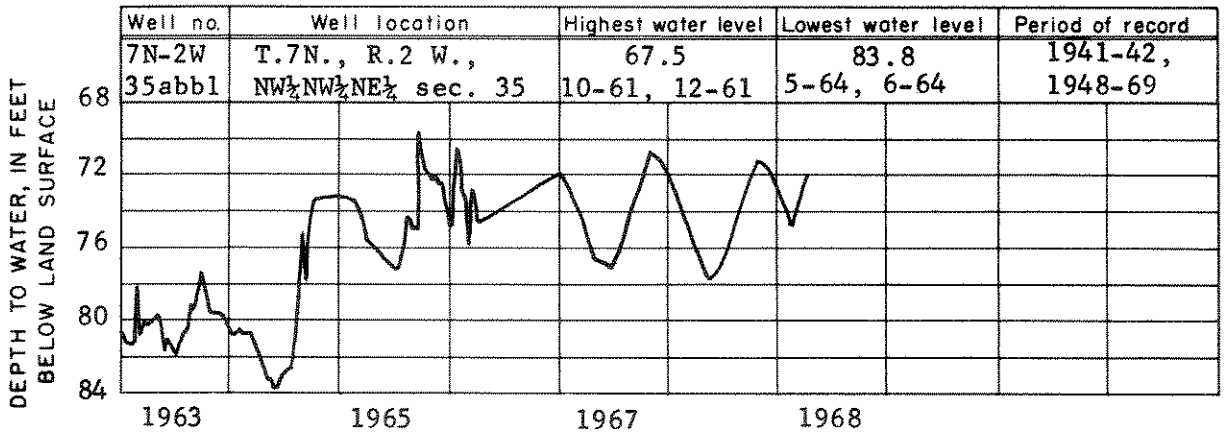
Observation wells and water-level data in area 65 - Payette River.
Published reports: 3, 24, 32, 34, and 38.

Well number	Date	Water level	Well number	Date	Water level
18N-3E-36bc1	4-7-69	41.89	7N-4W-25cbc1	4-9-69	b46.09
16N-3E-14aab1	4-7-69	1.80	7N-3W-7aaa1	4-9-69	+12.77
13N-4E-16bad1	4-7-69	23.04	7N-3W-14bbc1	4-9-69	105.98
12N-4E-8aac1	4-9-69	20.04	7N-3W-36cdd1	4-9-69	+12.67
9N-4E-22bdd1	4-7-69	54.34	7N-2W-35abb1	4-10-69	71.97
8N-5W-3bad1	4-8-69	8.28	7N-1W-28cbc1	4-10-69	b42.13
8N-5W-14cdd1	4-9-69	30.30	7N-1E-3acc1	4-7-69	2.61
8N-4W-3acd1	4-8-69	75.32	7N-1E-26ddb1	4-7-69	47.68
8N-4W-17bda1	4-8-69	11.14	7N-2E-34caa1	4-7-69	38.76
8N-4W-33aca1	3-20-69	8.56	6N-2W-15ddc1	4-10-69	b7.18
8N-3W-19adc1*	4-9-69	30.40	6W-1W-9ccc1	4-10-69	26.66
7N-5W-2bcc1	4-9-69	35.23			

* Formerly 19acd1.

b Indicates well pumped recently prior to measurement.

Water levels, in feet below or above (+) land surface, in area 65.



Representative water-level changes in area 65.

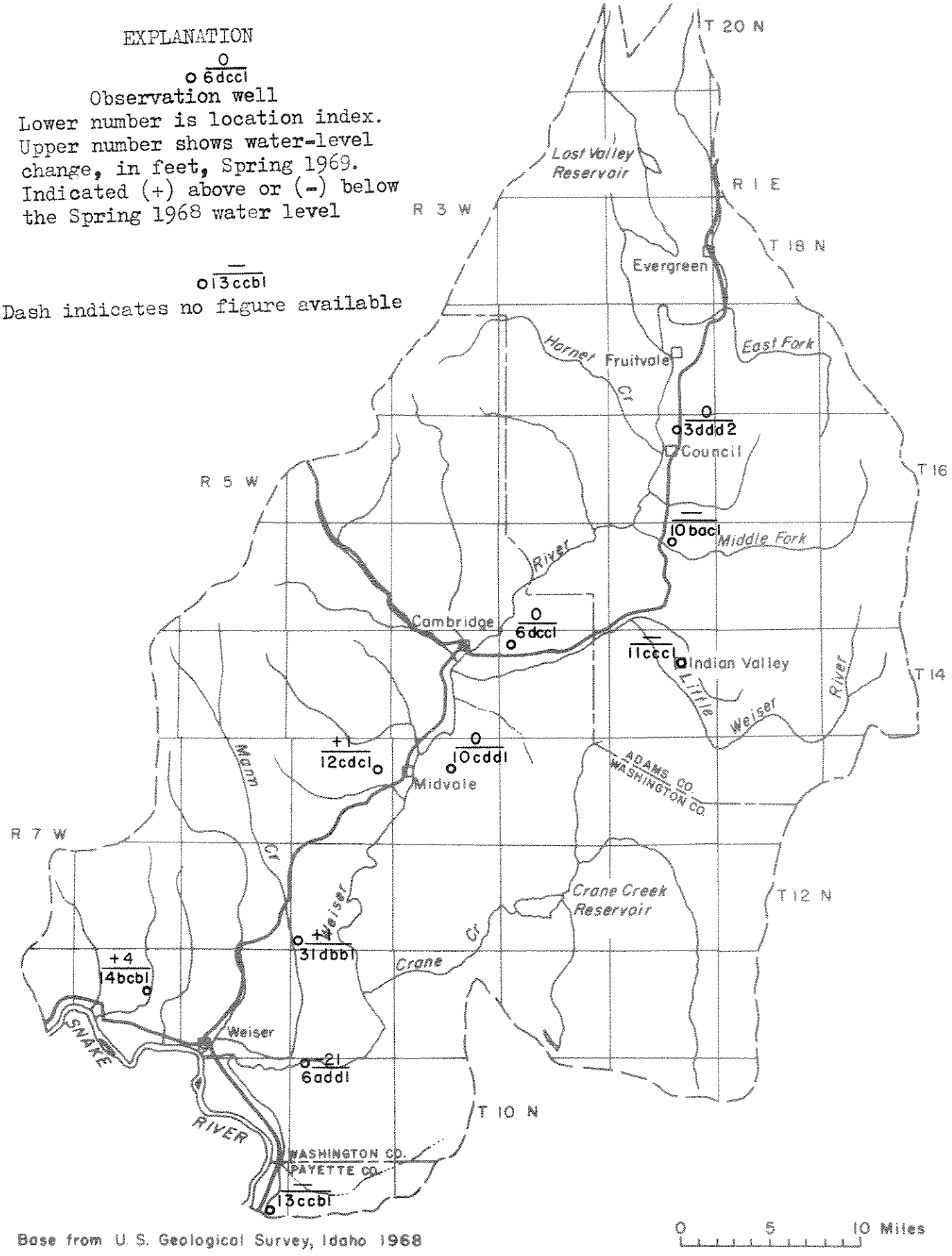
EXPLANATION

0
o 6dccl

Observation well
Lower number is location index.
Upper number shows water-level change, in feet, Spring 1969.
Indicated (+) above or (-) below the Spring 1968 water level

—
o 13ccbl

Dash indicates no figure available

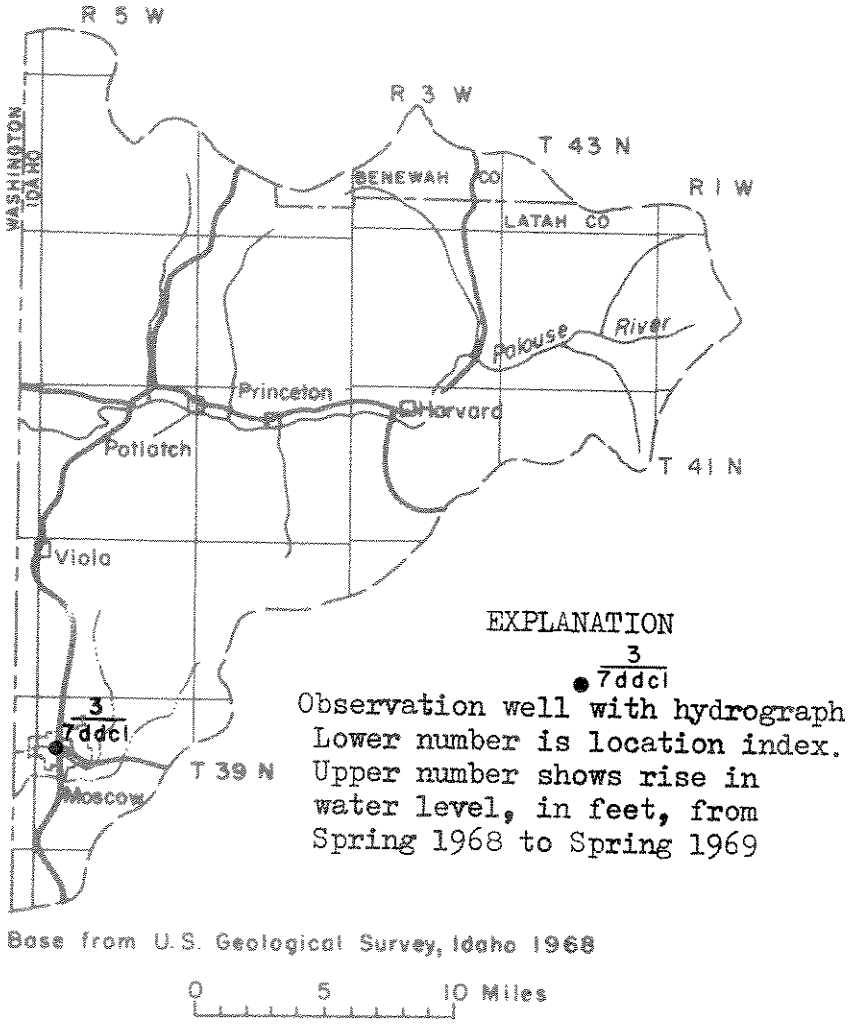


Observation wells and water-level data in area 67 - Weiser River.
Published reports: 3, 24, 26, 32, 34, and 38.

Well number	Date	Water level	Well number	Date	Water level
16N-1W-3ddd2	4-7-69	1.76	13N-3W-10cdd1	4-8-69	1.24
15N-1W-10bac1	Discontinued		12N-4W-31dbb1	4-8-69	38.20
14N-2W-6dcc1	4-8-69	+10.32	11N-6W-14bcb1	4-8-69	31.85
14N-1W-11ccc1	4-8-69	b10.73	10N-4W-6add1	4-8-69	+24.62
13N-4W-12cdc1	4-8-69	51.91	9N-5W-13ccb1	4-8-69	b57.60

b Indicates well pumped recently prior to measurement.

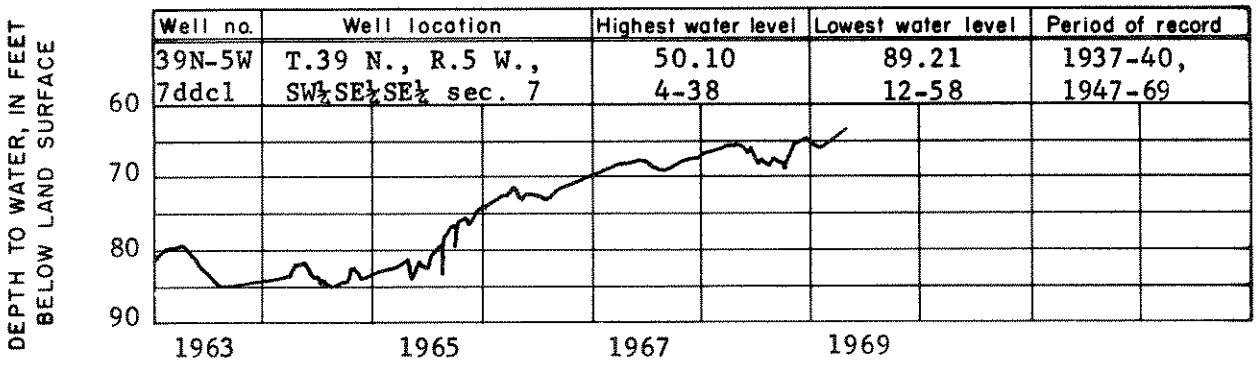
Water levels, in feet below or above (+) land surface, in area 67.



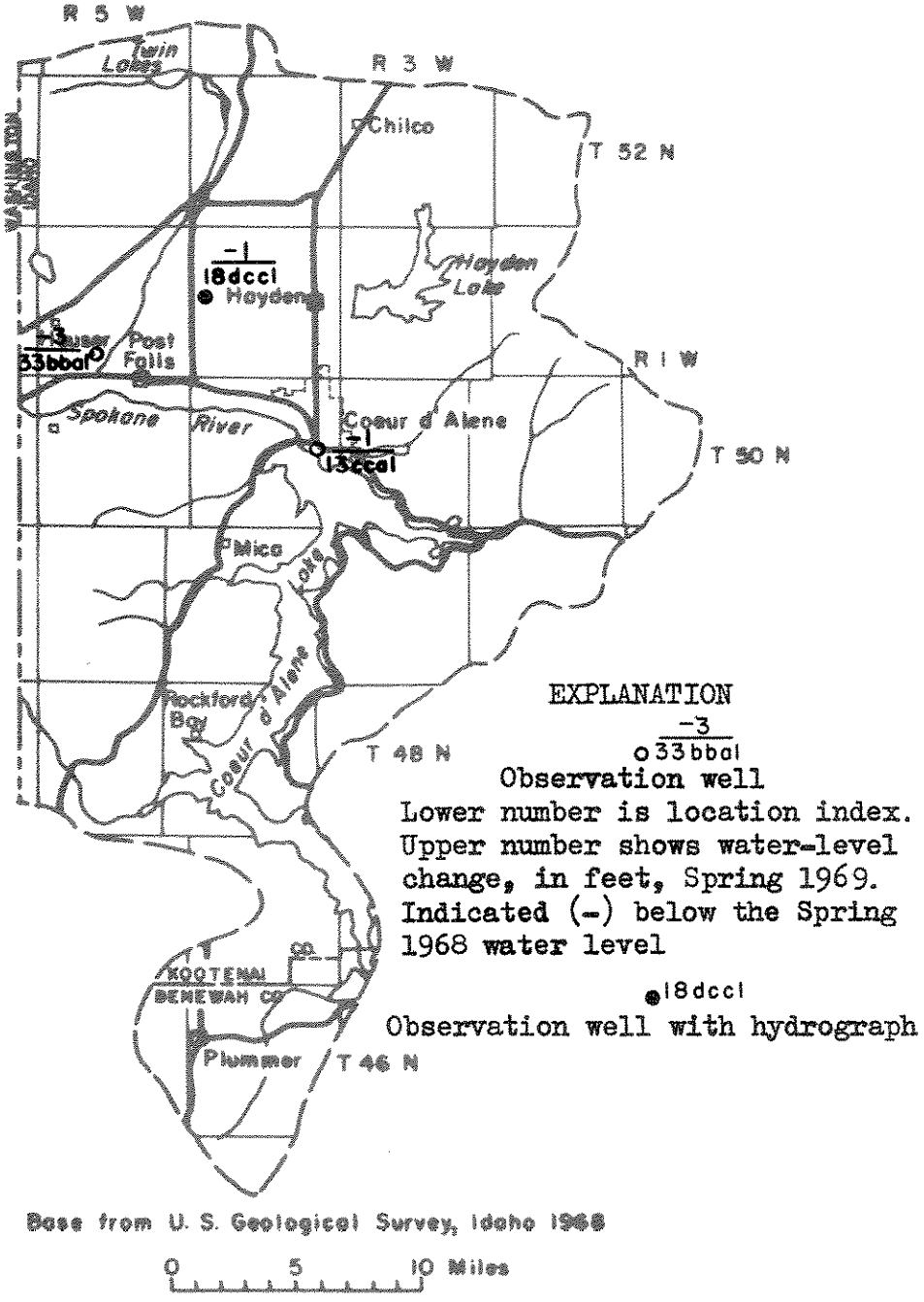
Observation well and water-level data in area 87 - Palouse River.
Published report: 13.

Well number	Date	Water level
39N-5W-7ddc1	4-15-69	63.12

Water level, in feet below land surface, in area 87.



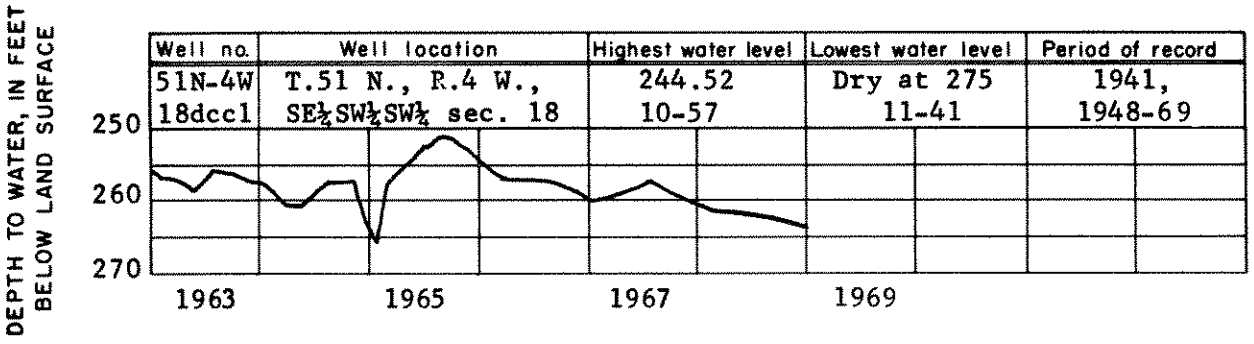
Representative water-level changes in area 87.



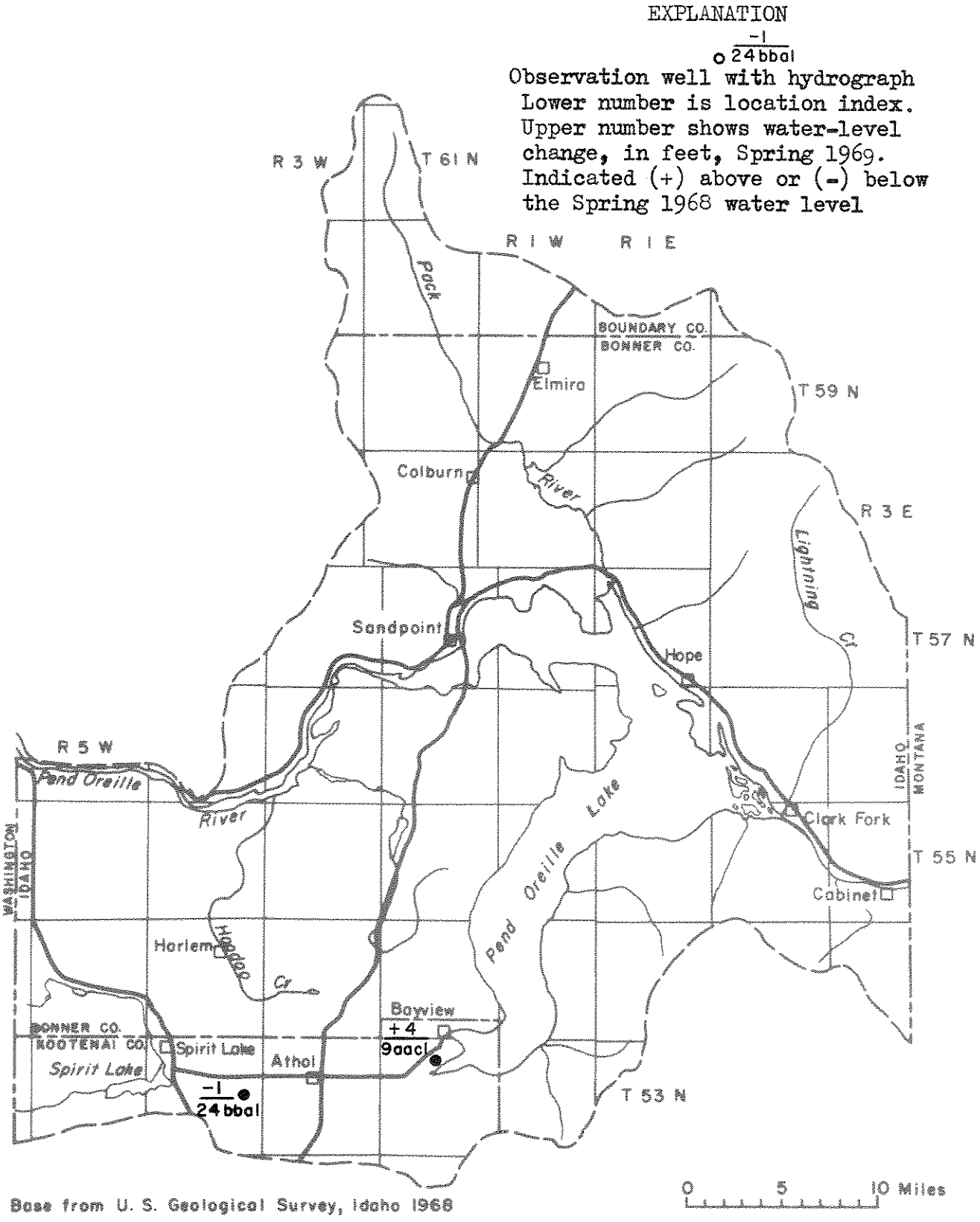
Observation wells and water-level data in area 95 - Lake Coeur d'Alene-Rathdrum Prairie.
Published reports: 8, 53, 54, and 81.

Well number	Date	Water level	Well number	Date	Water level
51N-5W-33bba1	3-17-69	155.15	50N-4W-13cca1	3-17-69	77.97
51N-4W-18dcc1	5-7-69	261.70			

Water levels, in feet below land surface, in area 95.



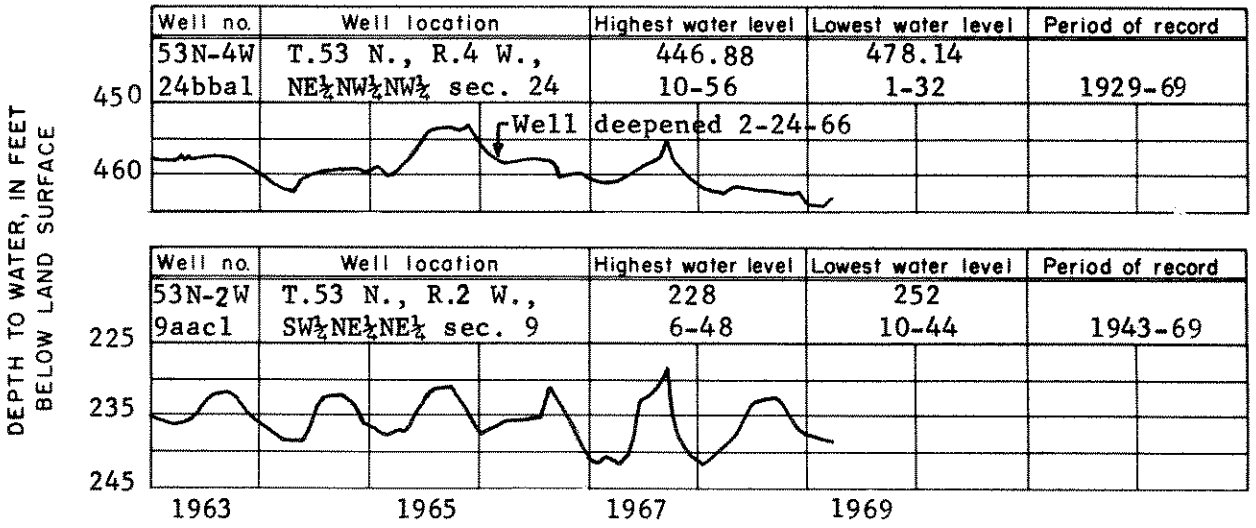
Representative water-level changes in area 95.



Observation wells and water-level data in area 96 - Pend Oreille.
Published reports: 8, 25, 53, 54, and 81.

Well number	Date	Water level	Well number	Date	Water level
53N-4W-24bba1	3-17-69	462.97	53N-2W-9aac1	3-17-69	238.33

Water levels, in feet below land surface, in area 96.



Representative water-level changes in area 96.

PUBLISHED REPORTS

Reference Number	U. S. Geological Survey Water-Supply Papers	
	Number	Title
1.	53.	Geology and water resources of Nez Perce County, Idaho, Part I, by I. C. Russell. 1901.
2.	54.	Geology and water resources of Nez Perce County, Idaho, Part II, by I. C. Russell. 1901. p. 87-141.
3.	78.	Preliminary report on artesian basins in southwestern Idaho and southeastern Oregon, by I. C. Russell. 1903. 53 p.
4.	560-D.	Preliminary report on the geology and water resources of the Mud Lake basin, Idaho, by H. T. Stearns and L. L. Bryan. 1926. p. 87-134.
5.	774.	Geology and ground-water resources of the Snake River Plain in southeastern Idaho, by H. T. Stearns, Lynn Crandall, and W. G. Steward. 1938 (1939). 268 p.
6.	775.	Records of wells on the Snake River Plain, southeastern Idaho, by H. T. Stearns, Lynn Crandall, and W. G. Steward. 1936. 139 p.
7.	818.	Geology and water resources of the Mud Lake region, Idaho, including the Island Park area, by H. T. Stearns, L. L. Bryan, and Lynn Crandall. 1939. 125 p.
8.	889-B.	Water-table fluctuations in the Spokane Valley and contiguous area, Washington-Idaho, by A. M. Piper and G. A. LaRocque, Jr., 1944. p. 83-139.
9.	1376.	Feasibility of ground-water features of the alternate plan for the Mountain Home Project, Idaho by R. L. Nace, S. W. West, and R. W. Mower. 1957. 121 p.
10.	1412.	Water consumption by water-loving plants in the Malad Valley, Oneida County, Idaho, by R. W. Mower and R. L. Nace. 1957. 33 p.
11.	1460-C.	Ground-water possibilities south of the Snake River between Twin Falls and Pocatello, Idaho, by E. G. Crosthwaite. 1957 (1958). p. 99-145.

PUBLISHED REPORTS

Reference Number	U. S. Geological Survey Water-Supply Papers (continued)	
	Number	Title
12.	1460-D.	Ground-Water geology of the Bruneau-Grand View Area, Owyhee County, Idaho, by R. T. Littleton and E. G. Crosthwaite. 1957 (1958). p. 147-198.
13.	1460-H.	Ground-water problems in the vicinity of Moscow, Latah County, Idaho, by R. R. Stevens. 1960. p. 325-357.
14.	1463.	Records of springs in the Snake River Valley, Jerome and Gooding Counties, Idaho, 1899-1947, by R. L. Nace, I. S. McQueen, and A. Van't Hul. 1958. 62 p.
15.	1478.	Ground-water resources of the middle Big Wood River-Silver Creek area, Blaine County, Idaho, by R. O. Smith. 1959. 64 p.
16.	1479.	Geohydrologic evaluation of streamflow records in the Big Wood River basin, Idaho, by R. O. Smith. 1960. 68 p.
17.	1536-D.	The ground-water flow system in the Snake River Plain, Idaho--an idealized analysis, by H. E. Skibitzke and J. A. daCosta. 1962. p. 47-67.
18.	1539-Q.	Reconnaissance of the hydrology of the Little Lost River basin, Idaho, by M. J. Mundorff, H. C. Broom, and Chabot Kilburn. 1963. 49 p.
19.	1576-D.	Ground-water for irrigation in part of the Fort Hall Indian Reservation, Idaho, by S. W. West and Chabot Kilburn. 1963. 33 p.
20.	1585.	Effect of irrigation on ground in southern Canyon County, Idaho, by P. R. Stevens. 1962. 74 p.
21.	1587.	Water resources of the Raft River basin, Idaho-Utah, by R. L. Nace and others. 1961. 138 p.
22.	1609.	Ground-water resources of Camas Prairie, Camas and Elmore Counties, Idaho, by W. C. Walton. 1960. 57 p.
23.	1619-CC.	Ground water in the Raft River basin, Idaho with special reference to irrigation use, 1956-60, by M. J. Mundorff and H. G. Sisco. 1963. 23 p.

PUBLISHED REPORTS

Reference Number	U. S. Geological Survey Water-Supply Papers (continued)	
	Number	Title
24.	1654.	Ground water for irrigation in the Snake River basin in Idaho, by M. J. Mundorff, E. G. Crosthwaite, and Chabot Kilburn. 1964. 224 p.
25.	1779-I.	Ground water in the Sandpoint region, Bonner County, Idaho, by E. H. Walker. 1964. 29 p.
26.	1779-Q.	Ground water in the Midvale and Council areas, upper Weiser River basin, Idaho, by E. H. Walker and H. G. Sisco. 1964. 26 p.
27.	1789.	Ground water in upper part of the Teton Valley, Teton Counties, Idaho and Wyoming, by Chabot Kilburn. 1964. 60 p.
28.	1809-C.	Ground water in the upper Star Valley, Wyoming, by E. H. Walker. 1965. 27 p.
29.	1846.	Ground water in the vicinity of American Falls Reservoir, Idaho, by M. J. Mundorff. 1966. 58 p.
30.	1879-D.	Water resources of the Salmon Falls Creek basin, Idaho-Nevada, by E. G. Crosthwaite. 1969. 32 p.
		U. S. Geological Survey Bulletins
31.	199.	Geology and water resources of the Snake River Plains of Idaho, by I. C. Russell. 1902. 192 p.
32.	217.	Notes on the geology of southwestern Idaho and southeastern Oregon, by I. C. Russell. 1903. 83 p.
33.	1133-E.	Subsurface geology of the National Reactor Testing Station, Idaho, by E. H. Walker. 1964. 22 p.
		U. S. Geological Survey Professional Papers
34.	417-D.	Chemical quality of the surface waters of the Snake River basin, by L. B. Laird. 1964. 47 p.
		U. S. Geological Survey Circulars
35.	371.	Ground water in the North Side Pumping Division, Minidoka Project, Minidoka County, Idaho, by E. G. Crosthwaite and R. C. Scott. 1956. 20 p.

PUBLISHED REPORTS

Reference Number	U. S. Geological Survey Circulars (continued)	
	Number	Title
36.	436.	Preliminary report on ground water in the Salmon Falls area, Twin Falls County, Idaho, by K. H. Fowler. 1960 (1961). 17 p.
		Water Information Bulletins Idaho Department of Reclamation
37.	1.	Ground-water conditions in Idaho, 1966. by W. L. Burnham and others. 64 p.
38.	2.	A Ground-water monitoring network for southwestern Idaho, by N. P. Dion and M. L. Griffiths. 1967. 16 p.
39.	3.	Ground-water development in Idaho, 1967, by Dale R. Ralston. 1968. 22 p.
40.	4.	Ground-water resource of the Mountain Home area, Elmore County, Idaho, by Dale R. Ralston and Sherl L. Chapman. 1968. 63 p.
41.	5.	Ground-water levels in Idaho, 1968, by R. L. Whitehead and H. G. Sisco. 1968. 67 p.
42.	6.	Record of northside springs and other inflow to the Snake River between Milner and King Hill, Idaho, 1948-67, by C. A. Thomas. 1968. 65 p.
43.	7.	Water level changes in the Mud Lake area, Idaho, 1958-68, by Dale R. Ralston and Sherl L. Chapman. 1969. 29 p.
44.	8.	Water resources of the Goose Creek-Rock Creek area, Idaho, Utah, and Nevada, by E. G. Crosthwaite. 1969. 73 p.
45.	9.	Inflow to Snake River between Milner and King Hill, Idaho, by C. A. Thomas. 1969. 39 p.
46.	10.	Ground-water development in Idaho, 1968, by Dale R. Ralston. 1969. 24 p.
	U. S. Geological Survey Open File Reports	
47.	Ground water for irrigation in Raft River valley, Idaho by H. T. Stearns. 1929. 1 p.	

PUBLISHED REPORTS

Reference Number	U. S. Geological Survey Open File Reports (continued)
48.	Ground water in Big Lost River Valley, Idaho, by Lynn Crandall and H. T. Stearns. 1930. 1 p.
49.	Ground water in Little Lost River Valley, Idaho, by Lynn Crandall and H. T. Stearns. 1930. 1 p.
50.	Preliminary report on water resources of Malad and Curlew Valleys, Oneida County, Idaho, by D. G. Thompson and R. W. Faris. 1932. 140 p.
51.	Underground leakage from artesian wells in Malad Valley, Idaho, by Penn Livingston and H. R. McDonald. 1943. 98 p.
52.	Preliminary report on ground water in Minidoka County, Idaho, with special reference to the North Side Pumping Division of Minidoka Project, by R. L. Nace. 1949. 71 p.
53.	Water levels in wells and lakes in Rathdrum Prairie and contiguous areas, Bonner and Kootenai Counties, northern Idaho, by S. W. Fader. 1951. 89 p.
54.	Records of wells on Rathdrum Prairie, Bonner and Kootenai Counties, northern Idaho, by R. L. Nace, and S. W. Fader. 1951. 49 p.
55.	Water levels in wells in Bingham, Bonneville, Butte, and Jefferson Counties, Idaho, by Eugene Shuter and G. E. Brandvold. 1952. 99 p.
56.	Records of wells and ground-water levels in Minidoka Co., Idaho, by S. W. Fader and R. W. Mower. 1952. 173 p.
57.	Preliminary report on ground water in the Michaud Flats Project, Power County, Idaho, by J. W. Stewart, R. L. Nace, and Morris Deutsch. 1952. 39 p.
58.	Records of wells and springs in western Oneida County, Idaho, by R. L. Nace. 1952. 51 p.
59.	Records of wells and ground-water withdrawals for irrigation in the Raft River Valley, Cassia County, Idaho, by S. W. Fader. 1952. 141 p.
60.	Records of wells and ground-water withdrawals in the Dry Creek area, Cassia and Twin Falls Counties, southern Idaho, by S. W. West and S. W. Fader. 1952. 114 p.

PUBLISHED REPORTS

Reference Number	U. S. Geological Survey Open File Reports (continued)
61.	Records of wells and ground-water levels in eastern Jerome County, Idaho, By R. W. Mower. 1953. 91 p.
62.	Records of wells in western Jefferson County, Idaho, by J. T. Barraclough. 1953. 54 p.
63.	Records of wells and water-level fluctuations in western Bingham County, Idaho, by Eugene Shuter. 1953. 96 p.
64.	Records of wells, ground-water levels and ground-water withdrawals in the lower Goose Creek basin, Cassia County, Idaho, by R. W. Mower. 1954. 92 p.
65.	Industrial ground-water possibilities of Bear Lake and Caribou Counties, Idaho, by R. C. Scott. 1955. 27 p.
66.	Ground-water and drainage problems in the Whitney Terrace area, Boise, Idaho, by S. W. West. 1955. 21 p.
67.	Records of wells and water-level fluctuations in the Aberdeen-Springfield area, Bingham and Power Counties, Idaho, in 1954, by H. G. Sisco. 1955. 30 p. Note: This is a continuing annual report. It is available through 1967.
68.	Records of wells and water levels in western Jerome County, by E. G. Crosthwaite. 1956. 151 p.
69.	Preliminary report on ground water in the Bonanza Lake area. Power and Blaine Counties, Idaho, by Harold Meisler. 1958. 30 p.
70.	Results of test drilling and aquifer tests in Jerome, Lincoln, and Minidoka Counties, Idaho by W. C. Walton. 1958. 27 p.
71.	Records of wells and ground-water levels in Gooding and Lincoln Counties, Idaho, by E. G. Crosthwaite. 1958. 117 p.
72.	Basic well records for preliminary report on ground water in the Salmon Falls area, Twin Falls County, Idaho, by K. H. Fowler. 1960.
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74.	Feasibility of artificial recharge in the Snake River basin, Idaho, by M. J. Mundorff. 1962. 49 p.
75.	Water supply for a fish hatchery site, Clearwater Valley, Idaho, by M. J. Mundorff and W. I. Travis. 1962. 35 p.
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77.	Ground-water reconnaissance in Round Valley, Custer County, Idaho, by E. G. Crosthwaite. 1962. 27 p.
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81.	Investigation of the inflow to the Rathdrum Prairie-Spokane Valley aquifer, by C. A. Thomas. 1963. 46 p.
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87.	Peak discharges from small drainage basins in Idaho by C. A. Thomas. 1967.
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