NINTH ANNUAL REPORT

BEAR RIVER COMMISSION

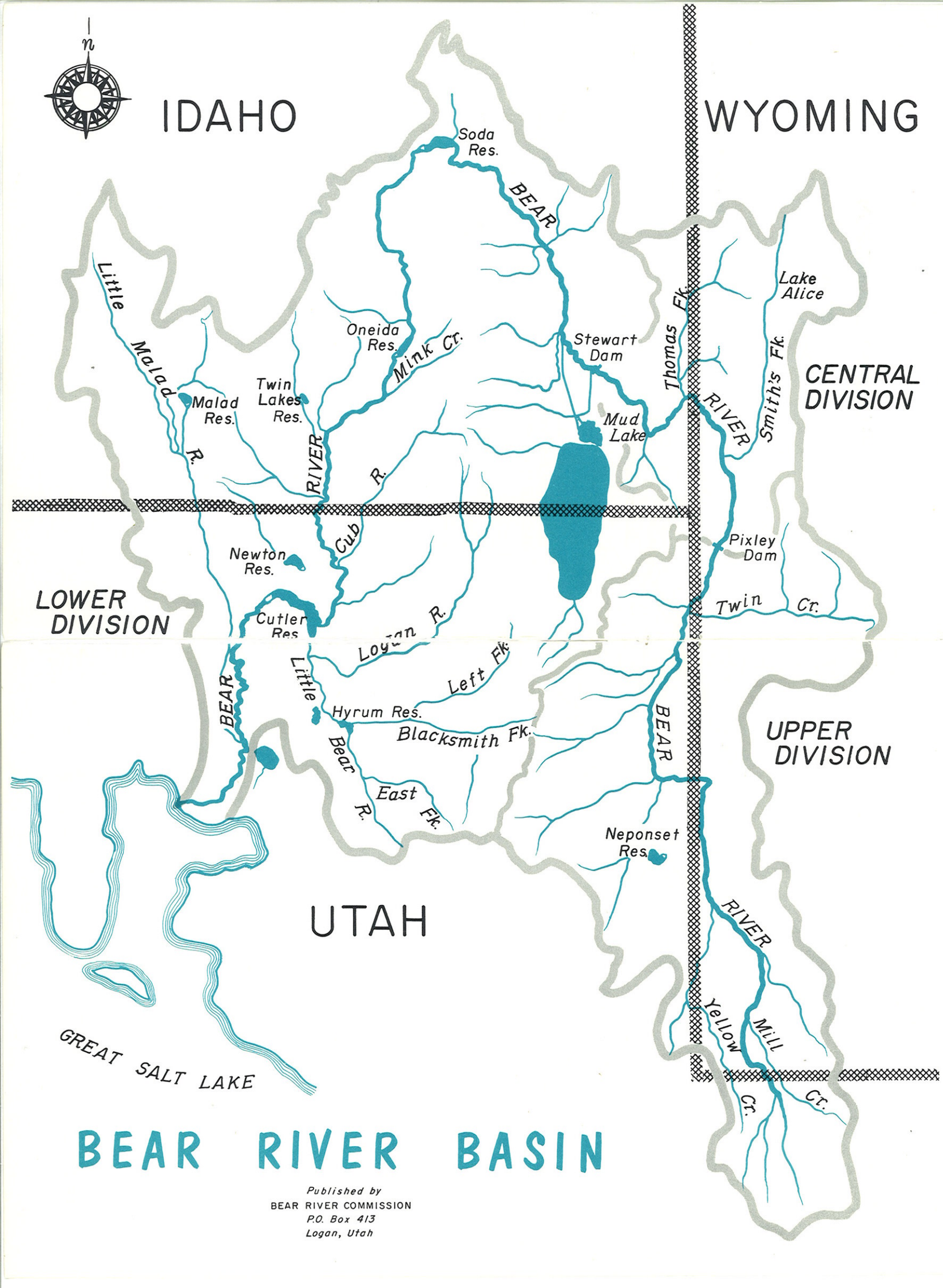
1966

For the Report Year October 1, 1965 to

September 30, 1966

LOGAN, UTAH

April 1, 1967



BEAR RIVER BASIN

Published by
BEAR RIVER COMMISSION
P.O. Box 413
Logan, Utah

BEAR RIVER COMMISSION

P. O. BOX 413
LOGAN, UTAH

April 1, 1967

Mr. President:

Submitted herewith is the Ninth Annual Report of the Bear River Commission, as required by Article III D 2 of the Bear River Compact.

A copy of the report is being transmitted to the Governor of each signatory State to the Bear River Compact.

Very truly yours,

Wallace N. Jibson

Wallace N. Jibson
Assistant Secretary

The President
The White House
Washington, D. C.

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ILLUSTRATIONS AND TABLES

NINTH ANNUAL REPORT
of the
BEAR RIVER COMMISSION

April 1, 1967

INTRODUCTION

The Bear River Compact determines the rights and obligations of the signatory States of Wyoming, Idaho, and Utah with respect to the waters of Bear River. Federal consent to the Compact was given by the Congress and signed by the President, March 17, 1958. The Bear River Commission was organized as an interstate agency to administer the Compact.

Article III D 2 of the Compact provides that the Bear River Commission shall compile annually a report covering the work of the Commission for the water year ending the previous September 30 and transmit it to the President of the United States and to the Governors of the signatory States on or before April 1 of each year.

Activities of the Bear River Commission during the water year ending September 30, 1966 are summarized in this report. Financial report of the auditors and daily streamflow records are shown in the appendixes.

ORGANIZATION

Ten commissioners, three representing each State and one the United States, constitute the Bear River Commission. The Federal representative serves as Chairman without vote.

Grover R. Harper, Corinne, was appointed in May 1966 as a member of the Commission from Utah. He succeeds A. V. Smoot, Corinne, who served with the negotiating Commission and with the Bear River Commission from the date of its organization.

Cleo L. Swenson, Preston, was re-elected Vice-Chairman of the Commission at the annual meeting, May 4, 1966. Other officers were re-elected by acclamation.

OFFICERS

Chairman ..... E. O. Larson, Salt Lake City, Utah
Vice-Chairman ..... Cleo L. Swenson, Preston, Idaho
Secretary-Treasurer ..... Jay R. Bingham, Bountiful, Utah
Assistant Secretary ..... Wallace N. Jibson, Logan, Utah

MEMBERS

Idaho

Carl E. Tappan ..... Boise, Idaho
Lloyd Dunn ..... Georgetown, Idaho
Cleo L. Swenson ..... Preston, Idaho

Utah

Jay R. Bingham ..... Bountiful, Utah
Lawrence B. Johnson ..... Randolph, Utah
Grover R. Harper ..... Corinne, Utah

Wyoming

Floyd A. Bishop ..... Cheyenne, Wyoming
S. Reed Dayton ..... Cokeville, Wyoming
J. W. Myers ..... Evanston, Wyoming

United States

E. O. Larson ..... Salt Lake City, Utah

Budget

Grover R. Harper ..... Corinne, Utah
J. W. Myers ..... Evanston, Wyoming
Lloyd Dunn ..... Georgetown, Idaho

Operations

Cleo L. Swenson ..... Preston, Idaho
Lawrence B. Johnson ..... Randolph, Utah
S. Reed Dayton ..... Cokeville, Wyoming

MEETINGS

Two meetings were held during the report year in accordance with the by laws as follows:

Regular Meeting—November 22, 1965.....Salt Lake City, Utah
Annual Meeting—May 4, 1966 .....Salt Lake City, Utah

BUDGET AND FISCAL DISBURSEMENTS

Adopted Budget

Compact Administration	*Fiscal Year Ending 6-30-1966*	*Fiscal Year Ending 6-30-1967*	*Total Biennium Ending 6-30-1967*
Personal Services	$ 5,690	$ 4,900	$ 10,590
Travel and Subsistence	1,000	600	1,600
General Office Expense	300	400	700
Fiscal and Administrative	300	280	580
Washington Office Tech. Charge	710	620	1,330
Printing and Reproduction	500	500	1,000
Treasurer (Bond and Audit)	300	300	600
Transcribing Minutes	150	150	300
Legal Retainer Fee	300	300	600
Miscellaneous	100	100	200
Sub-Total	$ 9,350	$ 8,150	$ 17,500
Stream-Gaging Program			
U.S. Geological Survey	$45,800	$50,200	$ 96,000
Total	$55,150	$58,350	$113,500

Allocation of Budget

U.S. Geological Survey	$22,900	$25,100	$ 48,000
State of Idaho	10,750	11,084	21,834
State of Utah	10,750	11,083	21,833
State of Wyoming	10,750	11,083	21,833
Total	$55,150	$58,350	$113,500

All disbursements of Commission funds are made by check on vouchers signed by the Secretary-Treasurer, and approved and countersigned by the Chairman or Vice-Chairman.

The audit of accounts and records, including balance sheet of June 30, 1966 and statement of budget revenue and appropriation accounts for the fiscal year ended June 30, 1966, are included in this report as appendix A.

STREAM-GAGING PROGRAM

A cooperative, basin-wide program of stream gaging is administered by the Geological Survey project engineer at Logan, Utah. The Geological Survey and Bear River Commission contribute equally to finance the collection of daily streamflow records at about 50 gaging stations. An additional eight gaging stations in the basin are operated by Utah Power & Light Company in connection with Federal Power Commission projects. Streamflow records of significance to the Commission are published herein as appendix B.

Four gaging stations were installed on Little Bear River drainage, including two seasonal canal stations, in cooperation with and fully financed by Utah Water Research Laboratory. Stations on Rock Creek in Wyoming and St. Charles Creek in Idaho were discontinued after collection of five years of record.

Seasonal daily or weekly records were collected on about 130 diversions above Bear Lake by district water commissioners under the general supervision of the Geological Survey. These records include all of the diversions from Bear River main stem and Smiths Fork, as they are required to administer the Bear River Compact. Daily discharge records for canals in the Central Division (see frontispiece map) are listed in tables 1-5; those in the Upper Division are not published herein but are maintained in the Commission files.

WATER SUPPLY

Direct-flow supply during the 1966 irrigation season was seriously deficient with June-July runoff from upper Bear River only 10 percent above that in the 1961 drouth year. Seasonal yield from Smiths Fork was 63 percent of the 1943-66 average yield and only 44 percent of last year. Reservoir storage in the upper basin prevented a serious loss in crop production.

Monthly and yearly runoff in 1966 at three representative gaging stations is compared with a longtime average in the bar graphs of figure 1 and is summarized for the irrigation season and water year in the tables below. Runoff at two of these stations is the major supply to the Upper and Central Divisions so it is plotted also on daily hyrographs in figures 2 and 3.

Runoff in Acre-feet
May-September

	Average 1943-66	*1965*	*1966*
Upper Bear River	111,800	189,600	80,600
Smith Fork	106,600	153,000	66,900
Logan River	116,900	165,800	83,000

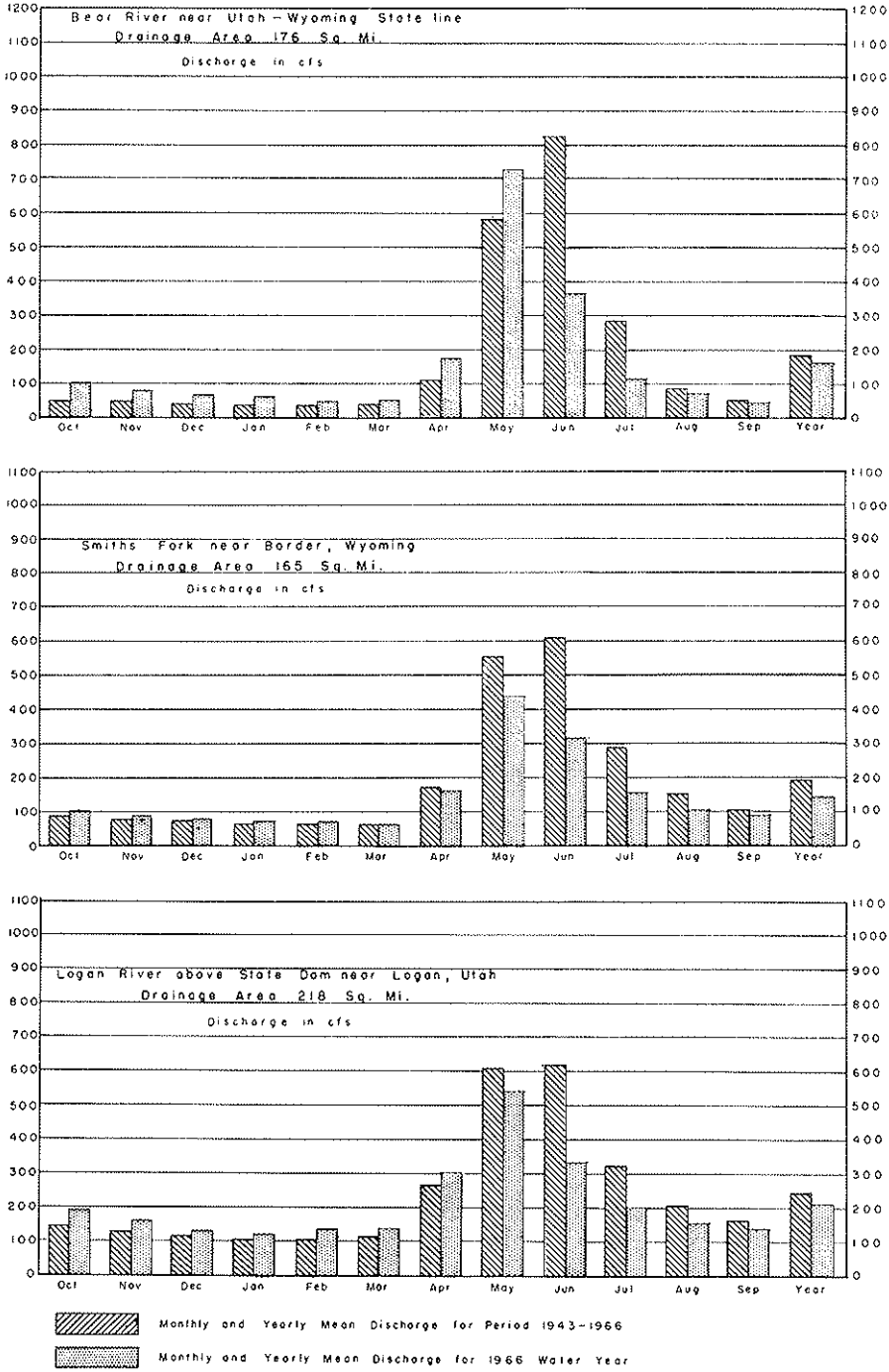


Figure 1. Comparison of discharge at three representative gaging stations in 1966 with average discharge for period 1943-66

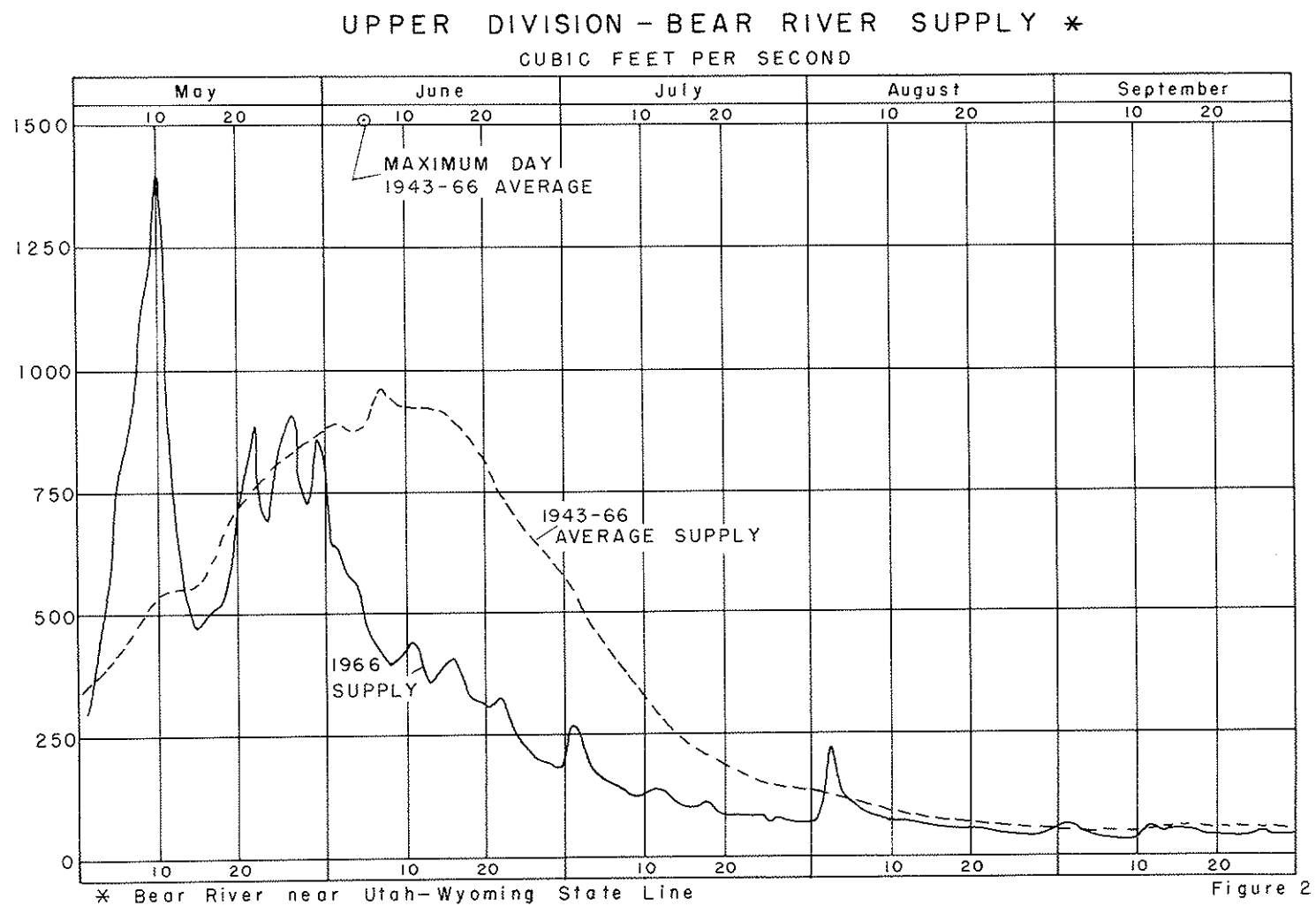

UPPER DIVISION - BEAR RIVER SUPPLY *
CUBIC FEET PER SECOND
May
June
July
August
September
10
20
1500
1250
1000
750
500
250
0
MAXIMUM DAY
1943-66 AVERAGE
1943-66
AVERAGE SUPPLY
1966
SUPPLY
* Bear River near Utah-Wyoming State Line

Figure 2

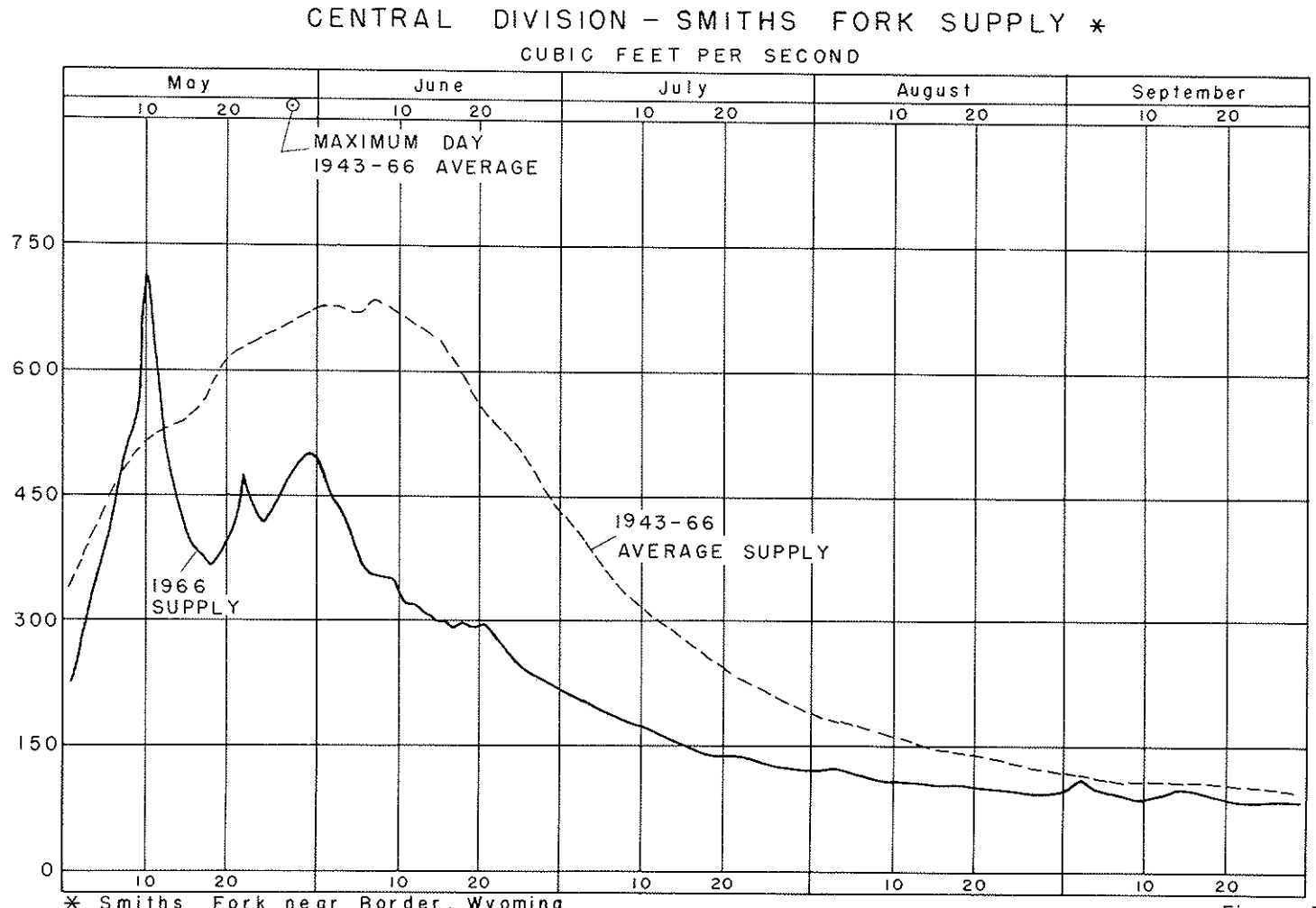

CENTRAL DIVISION – SMITHS FORK SUPPLY *
CUBIC FEET PER SECOND
May
June
July
August
September
10
20
MAXIMUM DAY
1943-66 AVERAGE
750
600
450
300
150
0
1966
SUPPLY
1943-66
AVERAGE SUPPLY
* Smiths Fork near Border, Wyoming

Figure 3

Runoff in Acre-feet
Water Year

	1943-66	*1965*	*1966*
Upper Bear River	133,900	206,800	116,200
Smiths Fork	138,600	190,500	105,000
Logan River	176,700	230,200	153,500

Bear Lake operation is illustrated in figures 4 and 5 showing bar-graph comparison with longtime averages and daily hydrographs of content and surface elevation. Storage water was released from the Lake from October 1965 through March 1966 to provide capacity for spring runoff. Potential gain fell short of runoff forecasts however, and the Lake did not recover to the 1965 peak but gained only 168,000 acre-feet to reach a maximum usable content of 1,299,000 acre-feet.

Seasonal irrigation demand on Bear Lake, as would be expected in a dry year, was near maximum and reduced the content 253,000 acre-feet to 1,046,000 acre-feet at the end of September.

Bear Lake Elevation
Utah Power & Light Co. Datum

Water Year	*Beginning of Water Year*	*End of Storage Period*	*End of Water Year*
1964	5,912.93	5,917.67	5,915.23
1965	5,915.23	5,922.74	5,921.83
1966	5,921.83	5,921.92	5,918.29

ADMINISTRATION OF BEAR RIVER COMPACT

Provisions of the Compact are administered and enforced by direction of the Bear River Commission. However, water rights within each State are adjudicated and administered in accordance with State law subject to limitations provided in the Compact.

Cooperative stream-gaging agreements with the Geological Survey include a program of administrative and technical assistance to the Commission financed without matching Federal funds. This program is directed by the Geological Survey project engineer at Logan where the project office is also the principal office of the Commission.

The project engineer is Assistant Secretary to the Commission with responsibility of providing technical assistance and current streamflow information required to administer the Compact. He establishes operational procedures, conducts hydrologic studies, compiles annual reports, and maintains the records of the Commission.

Expenses incurred by the Bear River Commission are paid equally by the signatory States. Compensation and expenses of the Federal representative, each commissioner, and each adviser are paid by the Government which he represents.

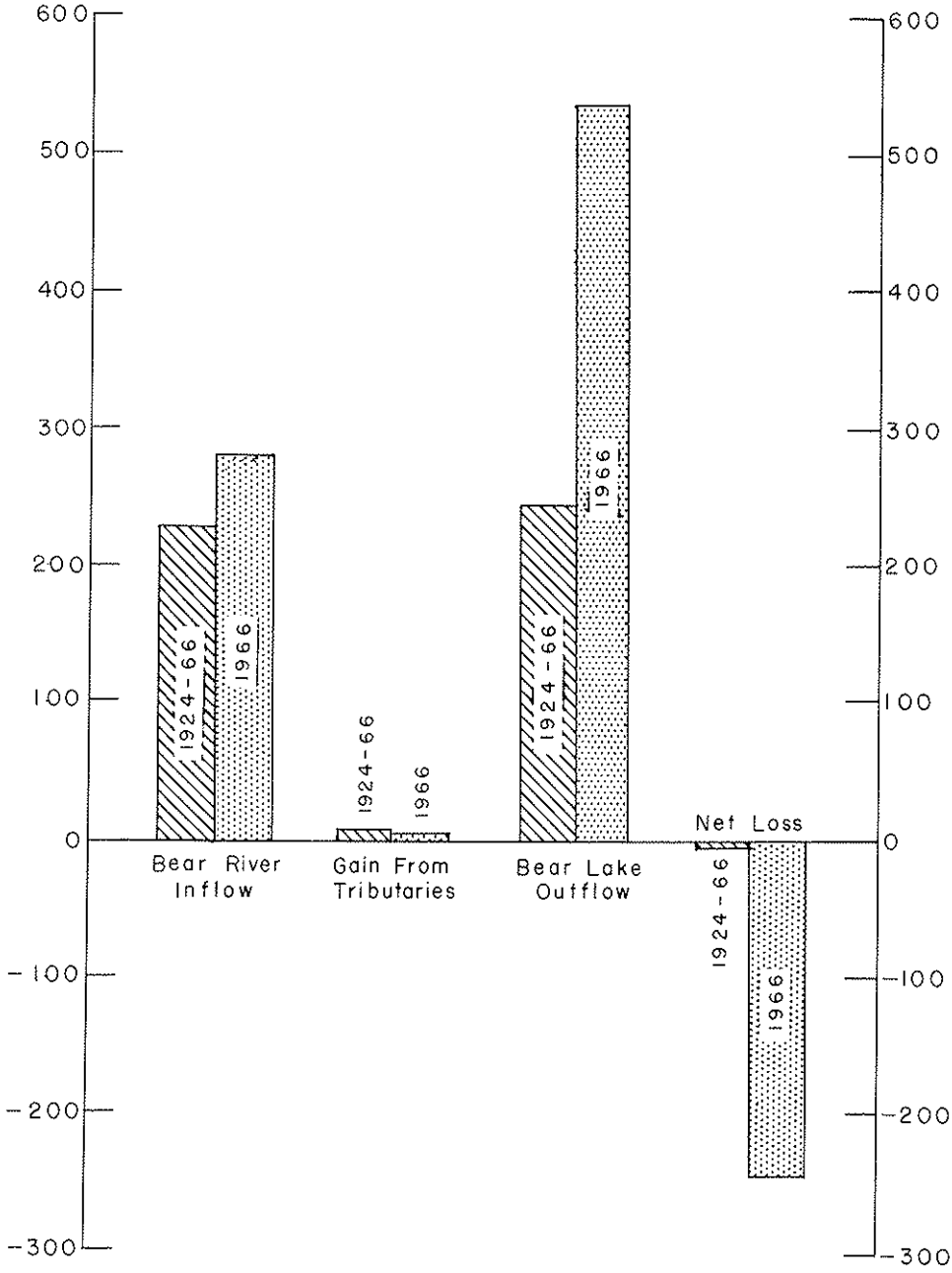


Fig 4. BEAR LAKE

Annual Quantities in Thousands of Acre-Feet

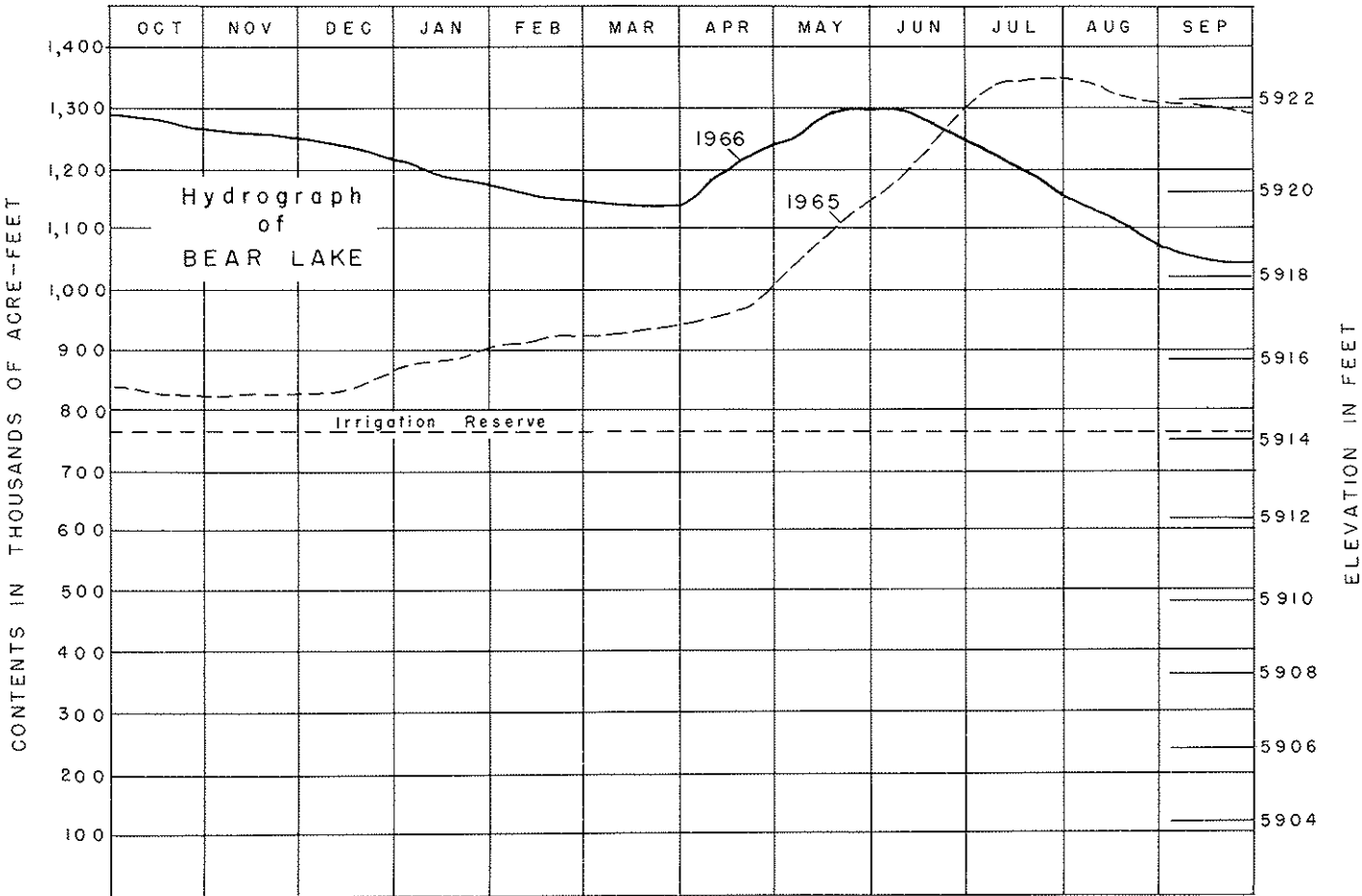

OCT
NOV
DEC
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
SEP
1,400
1,300
1,200
1,100
1,000
900
800
700
600
500
400
300
200
100
Hydrograph
of
BEAR LAKE
1966
1965
Irrigation Reserve
CONTENTS IN THOUSANDS OF ACRE-FEET
5922
5920
5918
5916
5914
5912
5910
5908
5906
5904
ELEVATION IN FEET

Figure 5

STREAMFLOW DISTRIBUTION

Records of diversions from Bear River main stem above Bear Lake and from Smiths Fork were collected by district water commissioners and submitted weekly to the Assistant Secretary. He computed section diversions and allocations and informed these district commissioners and members of the Commission of the quantities diverted and of State section allocations, where applicable, for such regulatory action needed to comply with the Compact.

Upper Division

The Upper Division comprises that part of the basin above and including Pixley Dam and includes two sections in Wyoming and two in Utah. The Compact provides that when the total diversions in the division plus the flow passing Pixley Dam is less than 1,250 cfs (divertible flow), a water emergency exists and such divertible flow is allocated to sections as follows:

Upper Utah Section Diversions	0.6 percent
Upper Wyoming Section Diversions	49.3 percent
Lower Utah Section Diversions	40.5 percent
Lower Wyoming Section Diversions	9.6 percent

Hydrographs of diversion and compact operational data in the Upper Wyoming Section of this division are shown in figure 6. Divertible flow fell below 1,250 cfs. about June 5 thus bringing about a water emergency and allocation of the divertible flow.

Diversions in this section were regulated and reduced during June, but difficulty in determination of divertible flow prevented the Commission from finding if full compliance with compact allocation was being maintained. This difficulty was due to several factors. Divertible flow does not include amounts diverted from stored water or amounts diverted from return flow from stored water, the latter quantity being especially difficult to determine currently. Also, weekly allocations are based on a projection several days beyond each visit to individual canals, and this projection under rapidly falling supplies can only be an estimate.

Because of these administrative difficulties, diversion remained above the allocation until the sharp increase in divertible flow and allocation on July 6 when pondage behind Pixley Dam was suddenly released and Lower Wyoming Section diversions were shut off in preparation for harvesting operations. Thereafter, Upper Wyoming Section allocation was increased from 49.3 to 58.9 percent of the divertible flow in accordance with Article IV, 1, e of the Compact which permits unused allocation to be transferred to the other river section of the same State. It is to be noted that total water diverted and total water allocated balanced about equally during the full period of regulation.

Similar data for the lower sections in the Upper Division are shown in figures 7 and 8. Here we note the large contribution by storage to the amounts diverted in these sections. Release of 21,400 acre-feet (figure 9) resulted in diversion of aproximately 29,000 acre-feet or 35 percent re-use from return flow of storage water. Woodruff Narrows Reservoir was operated for about equal benefit to each State section according to its allocation in the reservoir, but the time lag of several days between sections must be taken into account when planning releases.

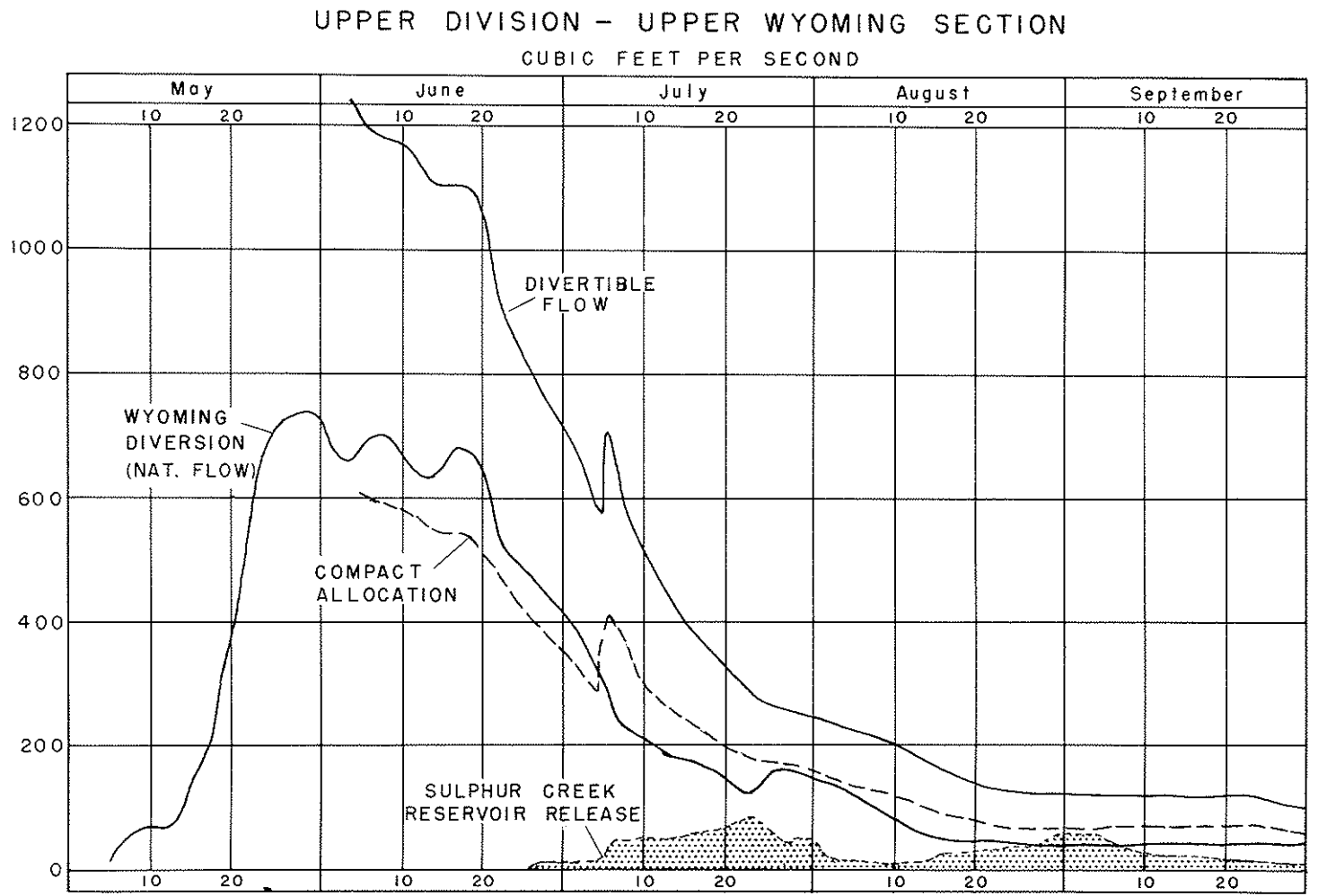

UPPER DIVISION – UPPER WYOMING SECTION
CUBIC FEET PER SECOND
May
June
July
August
September
10
20
1200
1000
800
600
400
200
0
DIVERTIBLE FLOW
WYOMING DIVERSION (NAT. FLOW)
COMPACT ALLOCATION
SULPHUR CREEK RESERVOIR RELEASE

Figure 6

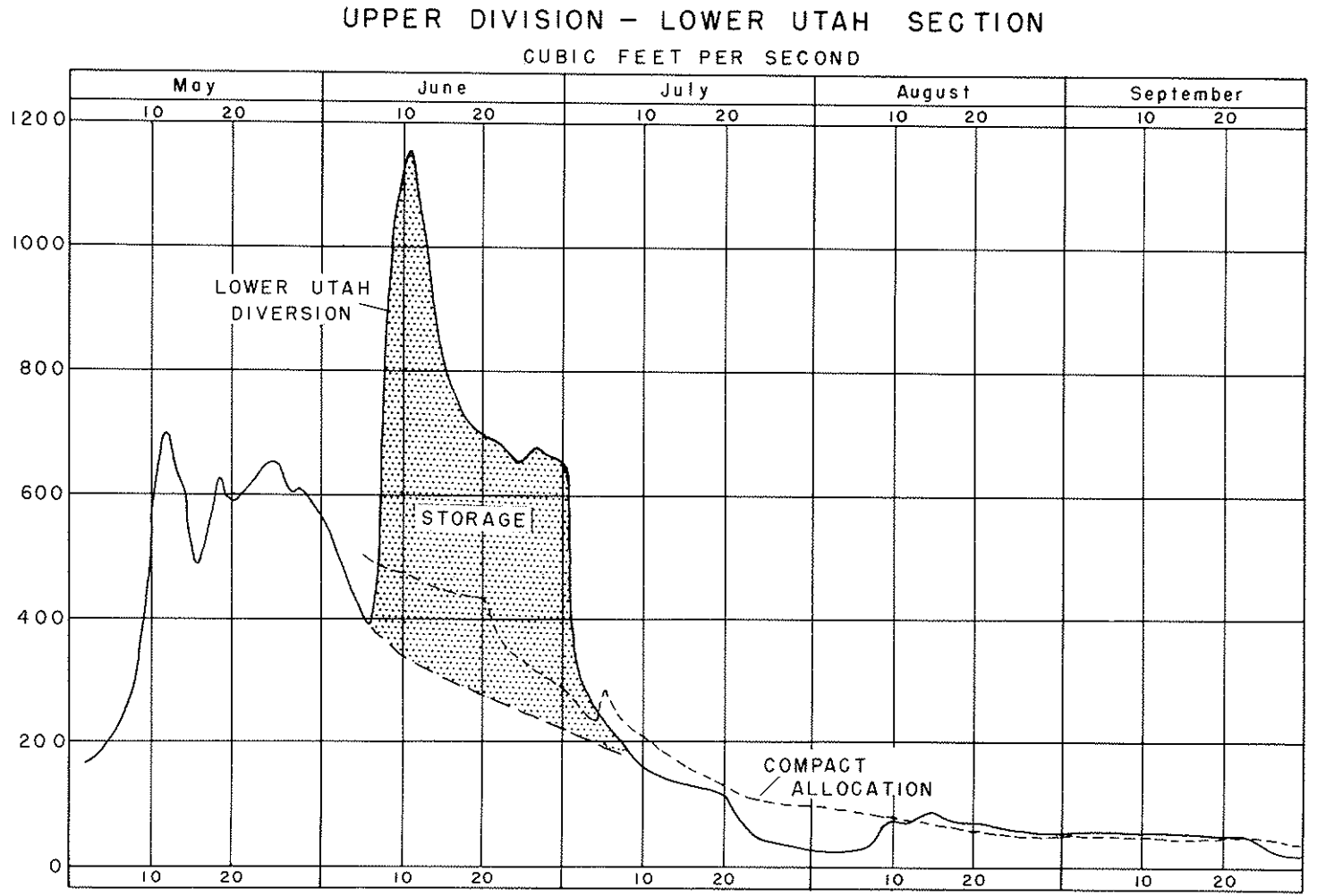

UPPER DIVISION – LOWER UTAH SECTION
CUBIC FEET PER SECOND
May
June
July
August
September
10
20
1200
1000
800
600
400
200
0
LOWER UTAH DIVERSION
STORAGE
COMPACT ALLOCATION

Figure 7

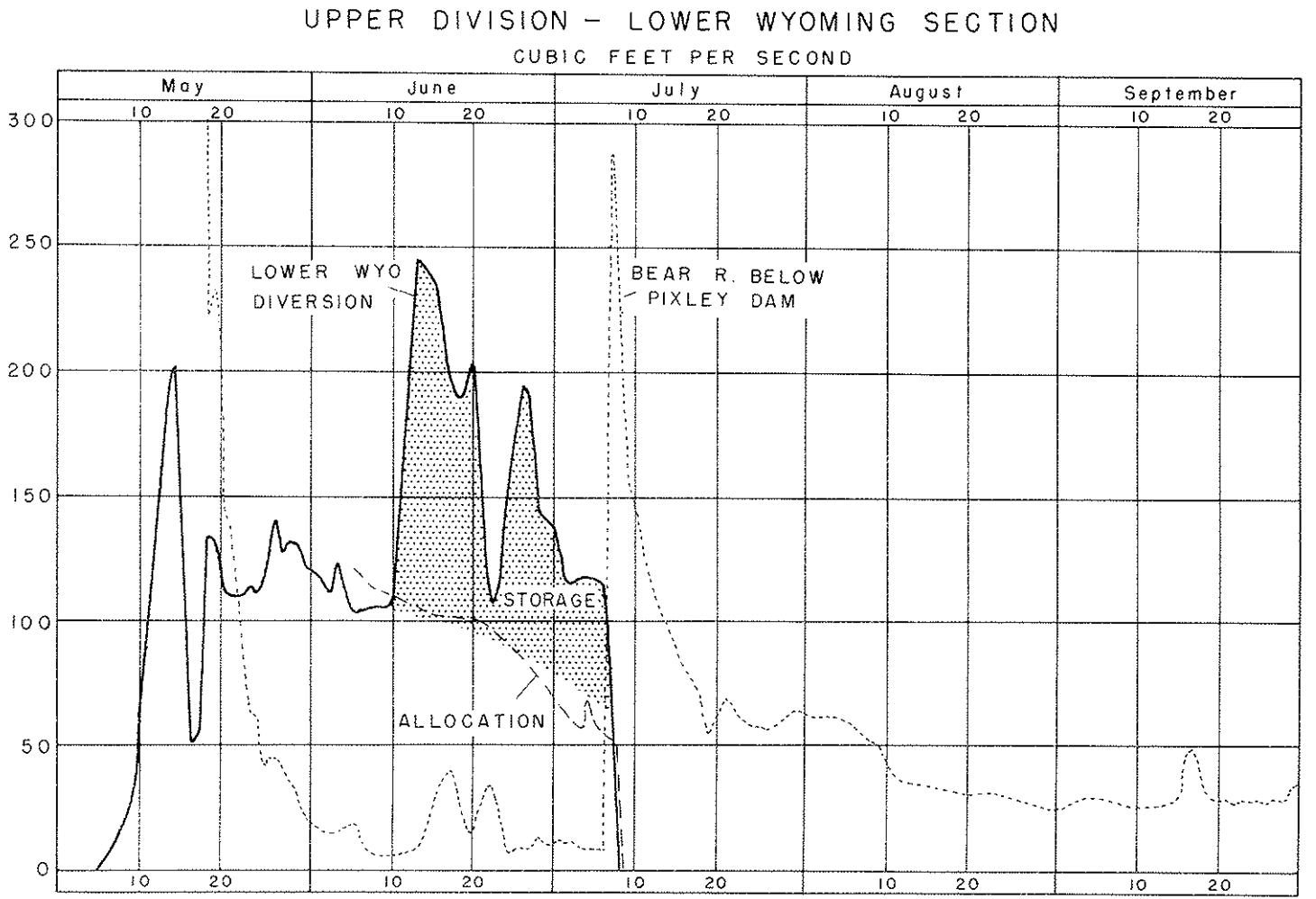

UPPER DIVISION – LOWER WYOMING SECTION
CUBIC FEET PER SECOND
May
June
July
August
September
10
20
300
250
200
150
100
50
0
LOWER WYO
DIVERSION
BEAR R. BELOW
PIXLEY DAM
STORAGE
ALLOCATION

Figure 8

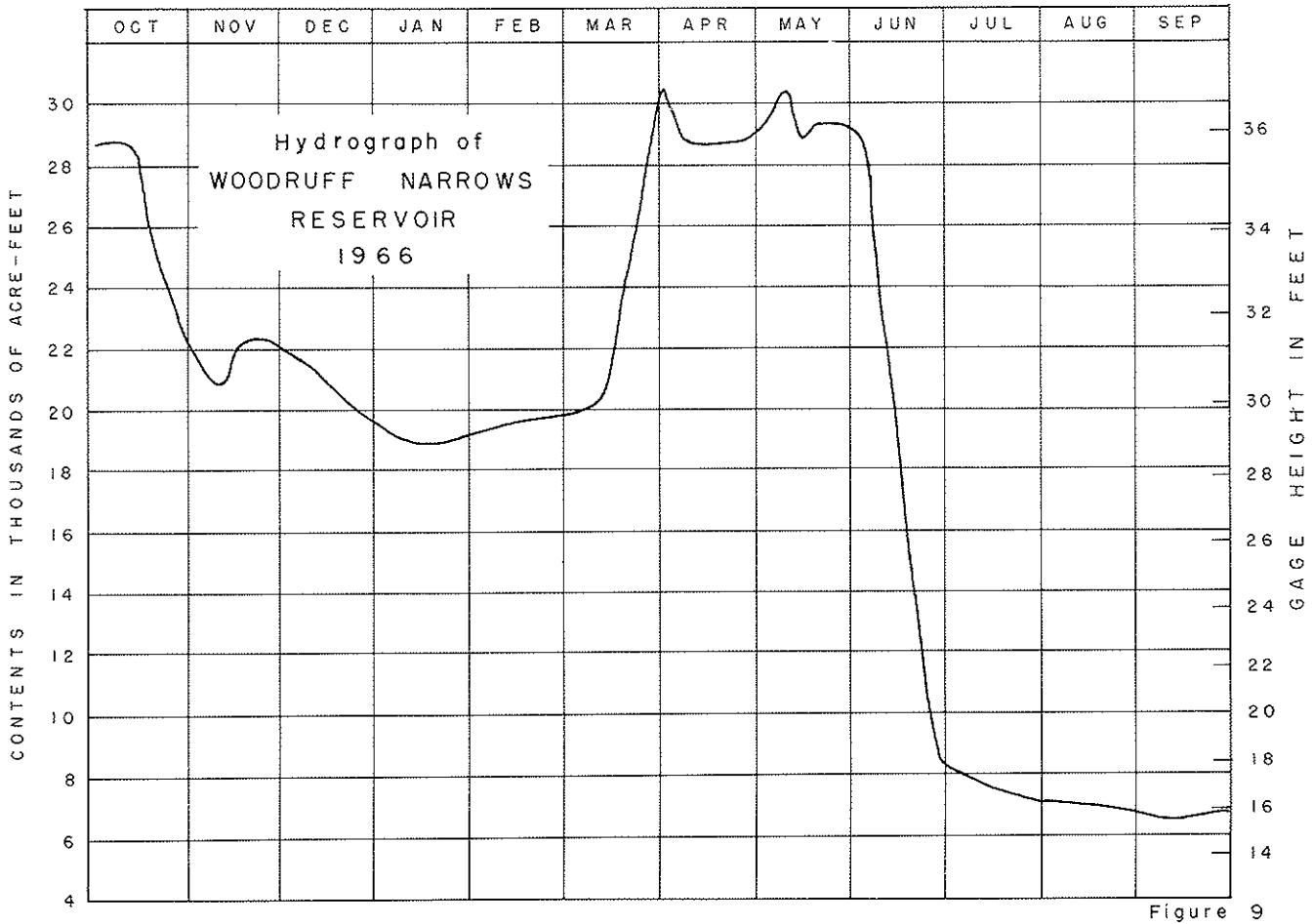

Hydrograph of
WOODRUFF NARROWS
RESERVOIR
1966
OCT
NOV
DEC
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
SEP
CONTENTS IN THOUSANDS OF ACRE-FEET
30
28
26
24
22
20
18
16
14
12
10
8
6
4
GAGE HEIGHT IN FEET
36
34
32
30
28
26
24
22
20
18
16
14

Figure 9

Central Division

The Central Division comprises that part of the basin from Pixley Dam down to and including Stewart Dam (the point of diversion to Bear Lake). It includes a section in Wyoming and one in Idaho.

Divertible flow in the Central Division is the sum of diversions from Smiths Fork and designated tributaries, diversions from Bear River in the division, and flow passing Stewart Dam. A water emergency shall exist when this divertible flow is less than 870 cfs, or when Bear River entering Idaho (gaging station at Border) is discharging less than 350 cfs. Wyoming diversions are limited to 43 percent of the divertible flow during a water emergency.

Operational data for the Wyoming Section of this division are shown in figure 10 in which we see that a water emergency began June 2 when Bear River at Border discharged less than 350 cfs. Four days later the total divertible flow dropped below 870 cfs. Compliance with compact allocation was reasonably good and within practical limits when regulation, as in the Upper Division, is based on projected totals from the previous week. Also, a time lag of several days occurs before increased channel flow from regulation in Wyoming can accrue as divertible flow in Idaho.

We note from the table below that there is little spread in the diversion rate per acre in the two State sections in dry years (1961, 1966). This shows the effectiveness of interstate regulation.

Similar hydrographs to those shown in figure 10 for Wyoming Section are shown in figure 11 for Idaho Section. In the table below is a comparison of water diverted to irrigated lands in the two sections for the past six years. The flow passing Stewart Dam and the flow diverted to Bear Lake have been excluded in computing the Idaho diversion rate, though these flows are included in the total divertible flow in the division.

Diversion in acre-feet per acre
May-September

	1961	1962	1963	1964	1965	1966
Wyoming Section	2.16	5.82	5.06	4.48	4.96	3.32
Idaho Section	1.72	3.26	3.28	2.91	2.87	2.95

Lower Division

Authority is given the Commission upon its own motion to declare a water emergency in any division, and in the Lower Division such a declaration may be made also upon petition of an aggrieved Utah user against an Idaho user. Upon declaration of an emergency, the Commission is required to enforce water-delivery schedules based on priority of rights without regard to State lines.

There were no petitions filed with the Commission or water emergencies declared in the Lower Division in 1966.

Interstate Tributaries

An aggrieved lower-State user on an interstate tributary may petition for declaration of a water emergency and distribution of flow

under direction of the Commission. Interstate arbitration on tributaries was not requested in 1966.

STORAGE

New Storage

The Compact defines storage rights in existing reservoirs above Bear Lake and provides for an additional storage allowance of 36,500 acre-feet annually. Idaho users on Thomas Fork are allotted 1,000 acre-feet of this amount and the remainder is divided equally between Wyoming and Utah.

The reservoirs shown below have been constructed under additional storage provisions of the Compact, and all except Whitney were filled to capacity in 1966. A total allocation to Woodruff Narrows Reservoir for storage of 18,240 acre-feet includes 15,240 acre-feet from Utah and 3,000 acre-feet from Wyoming.

Reservoir	*Allocation*
Sulphur Creek Reservoir (Wyoming)	4,615 ac-ft
Sulphur Creek Reservoir Enlargement (Wyoming)	1,100 ac-ft
J. L. Martin Reservoir, Sulphur Creek (Wyoming)	88 ac-ft
A. J. Barker Reservoir, Yellow Creek (Utah)	162 ac-ft
Hatch Brothers Reservoir (Utah)	350 ac-ft
Woodruff Narrows Reservoir (Utah-Wyoming)	18,240 ac-ft
Whitney Reservoir (Wyoming) (Constructed 1966)	4,200 ac-ft
Wyman Reservoir (Wyoming)	22 ac-ft
Total Allocation	28,776 ac-ft

Bear Lake

Article V of the Compact provides an irrigation reserve level in Bear Lake below which water shall not be released solely for generation of power, except in emergency, but after release for irrigation it may be used in generating power as it is conveyed to irrigation diversion works. The reserve is to be increased by designated amounts as additional storage, under terms of the Compact, is developed above Bear Lake. The irrigation reserve was increased by Commission resolution April 30, 1962 to include the water in the lake below elevation 5,914.15 feet (764,000 ac-ft) corresponding to 20,000 acre-feet of additional storage.

Whitney Reservoir, completed in October 1966, increased the total constructed allocation to 28,776 acre-feet of new storage. Accordingly, the Commission adopted a resolution December 5, 1966 to increase the irrigation reserve elevation to 5,914.41 feet(781,500 ac-ft) corresponding to 25,000 acre-feet of additional storage allocation. The hydrograph of Bear Lake in figure 5 shows the lake surface was above the reserve level throughout the 1966 water year.

APPLICATIONS FOR APPROPRIATION

Article X of the Compact states, "Applications for appropriation, for change of point of diversion, place and nature of use, and for exchange of Bear River water shall be considered and acted upon in accordance with the law of the State in which the point of diversion is located, but no such application shall be approved if the effect thereof will be to deprive any water user in another State of water to which he is entitled. The official of each State in charge of water administration shall, upon the filing of an application affecting Bear River water, transmit a copy thereof to the Commission."

The Commission has not been advised of final action taken on many applications submitted in accordance with Article X nor of construction of facilities under such applications. Therefore, the following resolution was adopted by the Commission in its Annual Meeting, May 4, 1966:

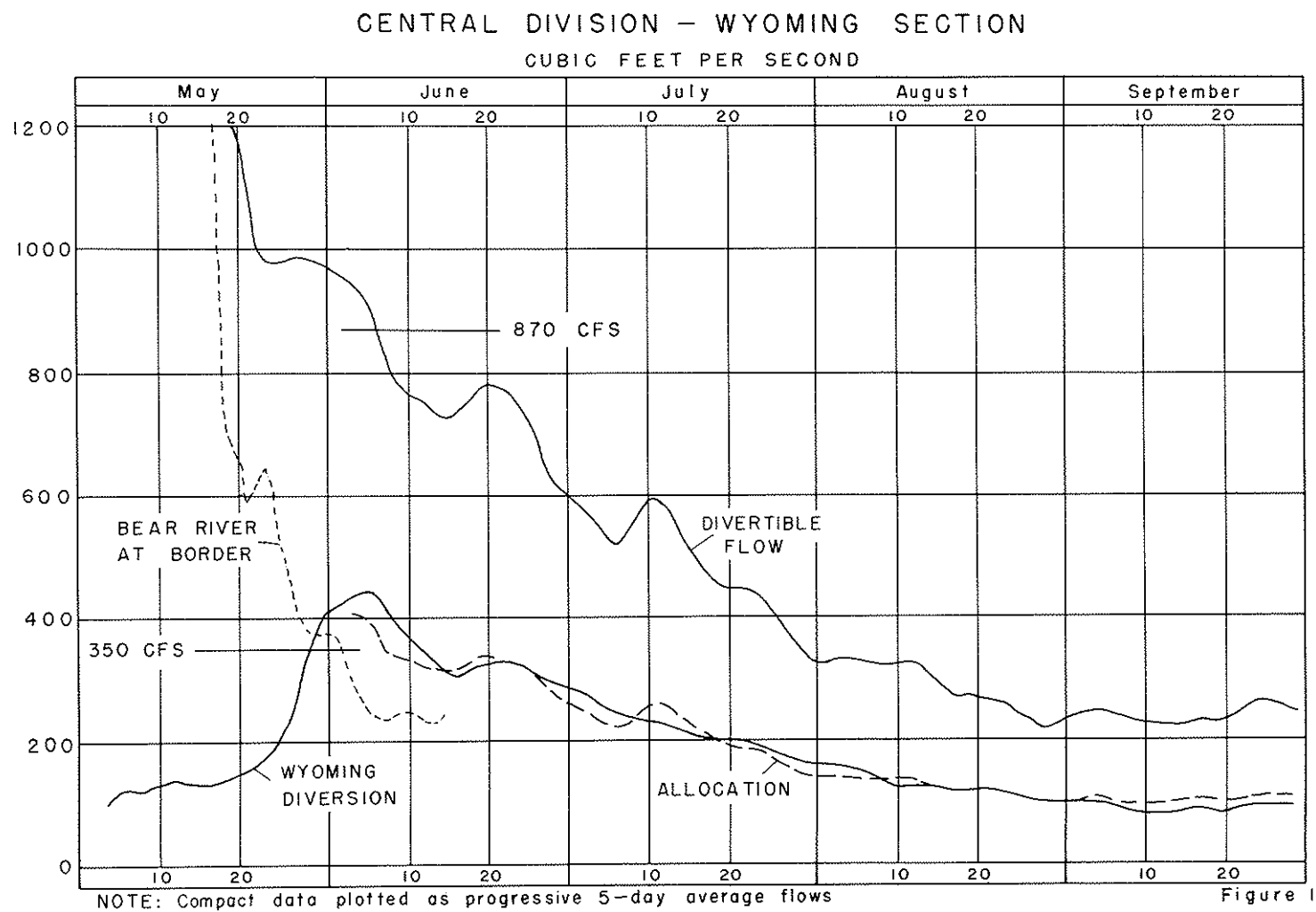
"Whereas, the language of the compact does not require the official in charge of water administration to notify the Bear River Commission of action taken on applications for appropriation, for change of point of diversion, place and nature of use and for exchange of Bear River water, nor does it require such official to notify the Commission of construction of dams or other water control facilities contemplated by such applications, and

Whereas, it is important that the Commission be kept advised of action taken on such water applications,

Now, therefore, be it resolved that this Commission respectfully requests the State Reclamation Engineer of Idaho, the State Engineer of Utah and the State Engineer of Wyoming to report in writing to the Commission, 30 days before each regular meeting of the Commission, on action by way of approval or rejection, taken on applications for appropriation, change and exchange of Bear River water, and also to include in the report any information on the construction of such dams, or other water control facilities of which the officials have knowledge.

Be it further resolved that a copy of this Resolution be sent to each State official named above."

Copies of applications presented to the Commission in 1966 included three filings in Utah by the Bureau of Reclamation for lower river development that would store water from Bear River, Logan River, Malad River, Blacksmith Fork, and Summit Creek up to a total of 335,000 acre-feet. A filing by the Utah Fish and Game Department would appropriate, for non-consumptive use, 2,000 cfs of water now spilling to Great Salt Lake through the Bear River Migratory Bird Refuge dikes. Numerous additional filings presented to the Commission involved relatively small amounts of underground water to supplement present irrigation supply in the basin below Bear Lake.



NOTE: Compact data plotted as progressive 5-day average flows

Figure 10

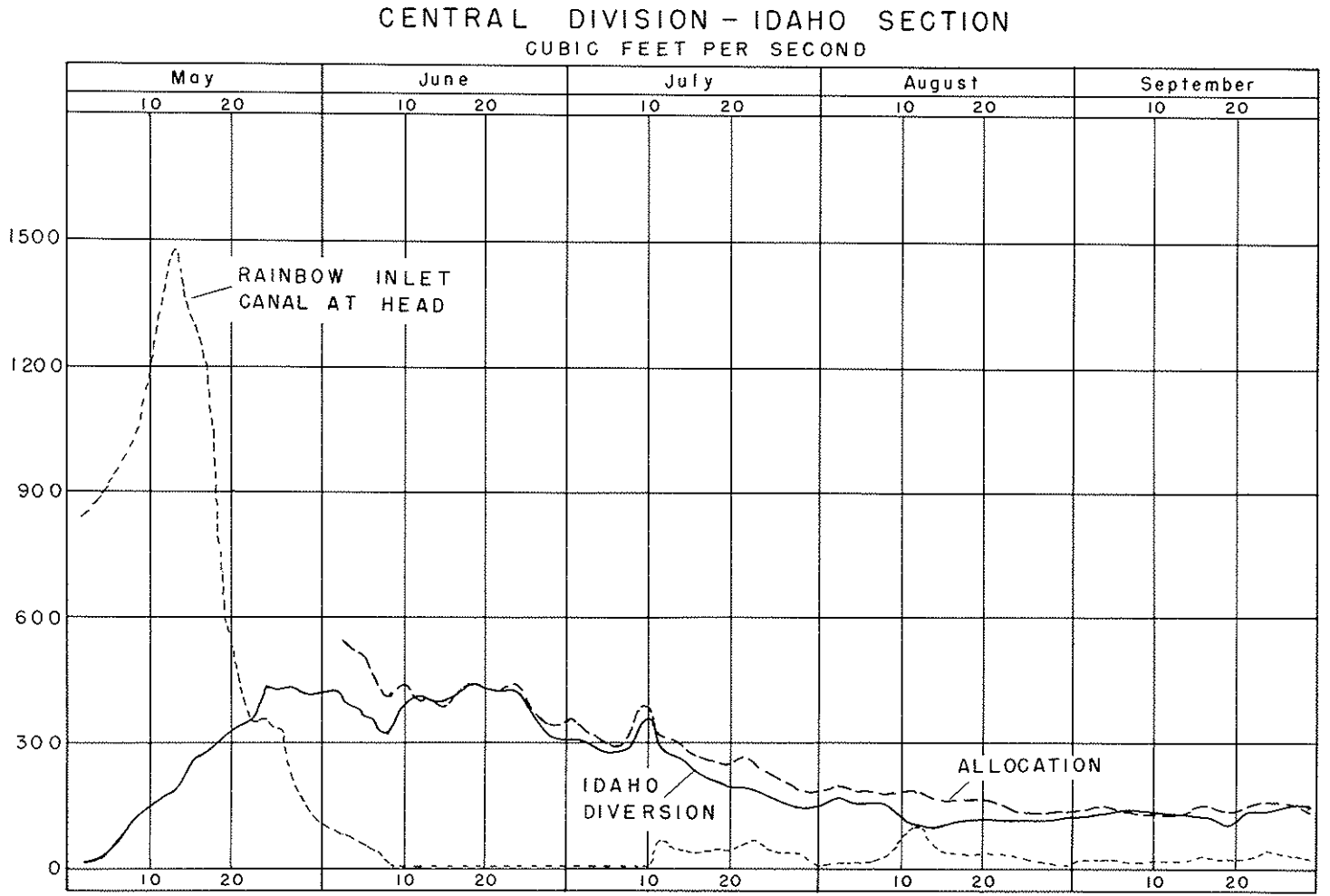

CENTRAL DIVISION – IDAHO SECTION
CUBIC FEET PER SECOND
May
June
July
August
September
10
20
1500
1200
900
600
300
0
RAINBOW INLET CANAL AT HEAD
IDAHO DIVERSION
ALLOCATION

Figure 11

DAILY DISCHARGE IN CFS OF SMITHS FORK & BEAR RIVER CANALS WITH COMPACT ALLOCATION IN CENTRAL DIVISION

MAY 1966	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
WYOMING DIVERSIONS																																
BEAR RIVER CANALS																																
Garrett	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sights	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Wyman East	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	27	27	27	25	30	151
Wyman West	49	48	49	51	51	52	52	53	53	54	54	53	52	42	32	32	31	26	25	24	24	23	25	23	23	20	20	19	19	19	20	1,115
Snyder	4	4	4	4	4	4	4	5	6	6	7	7	6	5	6	5	5	5	4	4	3	4	4	4	4	4	4	4	4	4	0	149
Rocky Point	6	5	5	5	4	2	2	4	6	8	12	11	10	10	9	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	106
Cook	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	49	49	50	50	215
J. R. Richards	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRIBUTARY CANALS																																
Goodell Ca -- Pine Cr	0	2	7	7	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	7	7	7	7	7	7	7	7	7	7	3	97
V. H. Canal -- Pine Cr	0	0	0	0	0	0	0	0	0	0	0	6	8	8	8	8	8	8	8	5	9	8	8	8	9	8	8	9	9	9	9	162
Collett Ca -- Pine Cr	0	0	0	0	2	7	7	7	6	6	6	6	6	6	5	5	6	6	6	3	0	0	0	0	0	0	0	0	0	0	3	95
Grade Creek Canal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diamond P&C 1-Bruner	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	7	9
Haggerty West-Pine Cr.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sublette C at Thompson	0	0	0	4	4	4	4	5	5	5	6	5	5	5	4	4	4	3	3	3	3	3	3	3	3	3	3	3	3	2	2	104
SMITHS FORK CANALS																																
Quinn-Bourne	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	1	1	1	1	1	8
Button Flat	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Perry Partridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Progress	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Emelle	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cooper	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	20	21	22	22	18	19	20	20	21	22	22	22	255
Wheelock	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Covey Canal at Head	0	0	2	5	7	10	14	16	20	22	25	24	23	22	25	34	37	36	36	36	38	39	39	39	41	49	67	85	104	106	25	1,096
Covey Canal--Bruner Cr	14	13	13	12	12	11	11	11	11	11	11	11	11	11	11	11	11	10	10	10	10	10	10	10	9	9	2	9	3	3	3	317
Covey Canal--Spring Cr	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	4	4	4	4	4	4	4	4	4	4	5	145
Tanner, Hunt & Garrett	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	13	13	13	13	58
Whites Water	10	10	10	10	10	8	6	5	4	3	1	1	0	0	0	4	10	10	12	12	13	13	13	13	35	34	34	34	34	34	34	417
Martin (Collett Creek)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
John Bourne-Collett Cr	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	7	7	7	7	7	7	7	7	63
Forgeon (Collett Cr)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	7	7	7	7	7	6	6	6	60
Olsen Canal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stoner-Nichols (So.Br)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	6	6	20
Morgan (South Branch)	5	5	5	5	5	6	6	5	4	0	0	0	0	0	0	4	5	6	6	6	5	7	7	8	8	8	8	6	8	8	8	160
Cokeville Water-So Br.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	7	7	7	7	7	7	7	7	7	7	7	6	6	6	6	106
Tanner 1 (South Br)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	5	5	5	22
Smiths Fk Canal-So Br.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	8	8	8	8	9	9	57
South Br. 2-Smiths Fork	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	6
South Br. 1-Smiths Fork	0	0	0	10	10	10	10	10	14	16	16	16	8	8	9	8	8	8	12	20	20	20	21	21	22	21	21	21	21	21	31	431
TOTAL WYO. DIVERSIONS	93	93	101	119	121	120	123	128	135	137	144	146	135	124	116	135	139	131	140	161	164	168	182	179	211	235	287	349	372	375	388	5,450
IDAHO DIVERSIONS																																
Miller Ditch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	6	5	5	8	14	14	14	14	14	6	0	0	9	117
Nuffer Canal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	14	13	12	12	11	13	16	15	14	13	11	17	21	21	213
Sorensen Ditch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	17	16	16	10	6	6	6	5	6	5	5	8	15	15	151
Jensen Ditch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	11	11	10	10	10	10	10	9	9	100
Loyd Ditch	0	0	0	0	0	0	0	6	9	9	10	11	10	10	10	7	4	3	1	0	0	0	0	0	0	0	0	0	0	0	0	90
Dingle Irrig. Canal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	43	44	44	44	43	40	39	39	39	39	435
Beam Crockett Canal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	36	50	62	60	60	62	62	62	63	63	594
Black Otter Canal	0	0	0	0	0	0	0	0	0	0	0	0	0	70	91	90	86	86	102	26	86	79	91	98	22	90	80	72	68	68	68	1,515
Preston Montpelier Co	0	0	0	0	0	0	15	17	16	14	10	11	13	18	22	24	23	24	29	29	29	27	30	44	41	32	34	40	35	35	39	630
Laracco Kent Canal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	12	13	17	8	10	11	10	10	8	12	16	15	14	155
West Fork Canal	22	22	22	22	50	74	102	110	120	133	148	162	155	148	146	161	147	145	147	173	166	122	138	152	144	146	170	162	159	160	158	3,895
Bugmire Ditch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SUBTOTAL	22	22	22	22	50	74	117	133	145	156	168	184	178	246	263	272	337	300	326	346	344	350	407	439	426	425	436	419	412	425	431	7,885
Rainbow Inlet Ca-Bear L.	833	953	984	200	228	980	985	1039	1104	1250	1310	1465	1470	1396	1330	1290	1205	975	667	535	606	374	353	372	342	347	233	190	157	143	119	24,526
Bear R below Stewart Dam	6	6	7	7	8	8	8	9	9	10	11	12	12	12	12	12	11	11	12	12	12	10	11	12	12	9	12	13	14	14	14	327
Idaho Divertible Flow	861	881	913	929	986	1042	1110	1179	1258	1416	1489	1661	1660	1653	1611	1574	1503	1286	1005	834	862	734	771	839	785	781	681	612	583	592	567	32,708
Wyoming Divertible Flow	93	93	101	119	121	120	123	128	135	137	144	146	135	124	115	135	139	131	140	161	164	168	182	179	211	235	287	349	372	375	388	5,450
Total Divertible Flow	954	974	1014	1048	1107	1162	1233	1307	1393	1553	1633	1807	1795	1777	1726	1709	1642	1417	1145	1055	1026	902	953	1018	996	1016	968	961	955	957	955	38,158
Wyoming Allocation (43%)																																
Idaho Allocation (57%)																																

Table I

DAILY DISCHARGE IN CFS OF SMITHS FORK & BEAR RIVER CANALS
WITH COMPACT ALLOCATION IN CENTRAL DIVISION

JUNE 1966	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
WYOMING DIVERSIONS															
BEAR RIVER CANALS															
Garrett	0	0	2	2	2	2	2	2	2	2	2	2	2	2	2
Sights	0	0	2	10	10	10	0	11	11	11	10	0	0	9	11
Hyman East	25	25	24	22	22	15	15	15	15	15	15	15	15	7	7
Hyman West	22	21	20	13	10	15	8	0	0	0	0	0	0	0	0
Snyder	19	25	23	21	20	20	11	13	13	12	13	12	13	10	8
Rocky Point	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cook	75	102	83	72	75	70	60	61	66	70	58	61	56	63	70
J. R. Richards	0	1	2	2	2	2	3	3	3	3	3	3	3	3	4
TRIBUTARY CANALS															
Goodell Co. - Pine Cr.	0	0	0	0	0	0	0	0	0	0	0	0	7	7	7
V. R. Canal - Pine Cr.	3	3	3	3	3	3	3	3	3	3	8	8	8	8	8
Collett Canal-Pine Cr.	2	2	2	2	2	2	2	2	2	2	2	2	2	0	0
Grade Creek Canal	0	0	0	0	0	0	1	1	2	2	2	2	2	2	2
Diamond P&C 1-[illegible]	7	7	7	7	7	7	7	7	7	7	7	7	7	0	0
Haggerty West-Pine Cr.	1	2	2	2	2	2	2	2	2	2	1	0	0	0	0
Sublette C. at Thompson	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1
SMITHS FORK CANALS															
[illegible]	1	1	1	1	1	0	0	0	4	8	8	8	7	7	7
Button Flat	0	0	0	0	0	0	0	2	4	3	3	3	3	3	3
Perry Partridge	2	3	3	4	4	5	5	5	5	5	5	5	5	5	5
Progress	1	1	1	1	1	2	2	2	2	2	2	3	3	3	3
Snelle	0	0	0	0	12	15	18	17	16	15	15	14	10	9	10
[illegible]	33	21	20	20	20	16	9	9	4	4	0	8	3	10	10
Wheelock	3	3	3	7	5	5	5	4	4	4	4	3	3	3	4
Covey Canal at Head	89	73	106	100	103	97	96	94	93	91	91	83	75	62	52
Covey Canal--Bruner Cr.	0	0	0	0	0	0	0	2	5	5	10	10	10	10	9
Covey Canal--Spring Cr.	4	4	4	4	4	3	3	3	3	3	3	3	3	3	3
Tanner, Hunt & Garrett	13	11	9	13	13	13	13	11	10	10	10	10	10	10	10
Wilson Water	34	33	33	35	34	33	33	33	32	30	32	28	28	25	22
[illegible] (Collett Creek)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
John Bourne-Collett Cr.	14	14	12	11	2	2	2	2	2	2	4	4	4	4	4
Ferguson (Collett Cr.)	5	5	5	5	5	5	4	4	4	4	3	3	3	3	3
Olsen Canal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stoner-Nichols (So. Br.)	0	0	0	0	0	5	5	5	4	4	4	4	4	4	4
Morgan (South Branch)	8	8	6	7	6	6	4	4	4	4	4	3	3	3	3
Cokeville Water-So. Br.	5	5	6	6	5	5	4	2	2	2	2	2	2	2	2
Tanner 1 (South Br.)	6	6	4	4	4	4	4	3	3	3	3	3	3	3	2
Smiths Fk Canal-So. Br.	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
South Br 2-Smiths Fork	5	5	5	7	5	4	4	4	3	3	3	3	3	1	1
South Br 1-Smiths Fork	35	33	30	30	30	30	21	15	14	13	14	14	13	13	13
TOTAL WYO. DIVERSIONS	437	448	452	455	451	420	388	393	388	370	356	354	323	301	304
IDAHO DIVERSIONS															
Miller Ditch	13	12	11	11	11	11	10	10	10	9	6	6	7	10	10
Huffer Canal	22	21	15	17	15	13	12	12	17	14	21	22	22	22	22
Sorensen Ditch	15	15	14	14	15	14	14	14	5	4	4	5	5	4	4
Jensen Ditch	8	8	8	8	8	8	8	3	3	4	4	6	3	3	3
Loyd Ditch	0	0	0	0	0	0	0	0	0	0	0	1	2	2	3
Dingle Irrig. Canal	38	38	35	35	35	34	33	33	37	37	37	33	33	33	37
Beam Crockett Canal	64	62	62	62	62	62	62	62	66	66	65	64	55	64	52
Black Otter Canal	67	67	66	66	66	74	90	90	104	112	112	108	103	101	101
Preston Montpelier Co.	47	45	37	36	41	41	40	45	56	63	64	63	60	58	59
Lanesco Kent Canal	14	14	12	10	9	7	4	7	13	22	22	22	21	19	19
West Fork Canal	151	102	137	141	115	100	57	45	76	88	96	96	87	79	70
Pacific Ditch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
SUBTOTAL	433	425	400	389	372	364	336	323	361	419	454	417	400	396	377
Rainbow Inlet Co-Bear L.	96	87	81	64	60	55	46	35	2	2	2	1	1	1	1
Bear R below Stewart Dam	14	13	13	13	12	11	5	7	2	2	2	4	2	4	3
Idaho Divertible Flow	543	525	494	466	444	430	390	365	365	423	460	422	411	400	381
Wyoming Divertible Flow	417	448	452	455	451	429	385	365	365	370	356	354	321	301	304
Total Divertible Flow	960	984	946	921	896	867	775	730	730	793	796	776	732	701	685
Wyoming Allocation (43%)		423	407	396	385	369	333	314	305	341	339	320	315	301	295
Idaho Allocation (57%)		561	539	520	511	498	442	416	420	452	446	431	417	400	390

JUNE 1966	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total
WYOMING DIVERSIONS																	
BEAR RIVER CANALS																	
Garrett	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		56
Sights	12	12	12	11	10	10	13	13	10	3	8	8	8	4	8		275
Hyman East	7	8	2	8	8	2	2	2	2	2	8	8	9	8	7		282
Hyman West	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		127
Snyder	8	8	8	8	8	8	12	13	11	10	10	9	8	7	7		374
Rocky Point	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
Cook	75	78	77	72	69	66	75	74	70	62	57	56	63	79	75		2,085
J. R. Richards	4	5	5	5	5	4	5	5	5	3	3	3	2	4	3		101
TRIBUTARY CANALS																	
Goodell Co. - Pine Cr.	7	7	7	7	7	7	7	7	7	7	7	3	0	0	0		25
V. R. Canal - Pine Cr.	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8		241
Collett Canal-Pine Cr.	0	0	0	0	0	0	0	0	0	0	0	3	7	7	7		102
Grade Creek Canal	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3		52
Diamond P&C 1-[illegible]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		27
Haggerty West-Pine Cr.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		20
Sublette C. at Thompson	1	2	2	2	2	2	2	2	2	2	2	2	2	2	1		55
SMITHS FORK CANALS																	
[illegible]	7	7	4	4	4	4	4	4	4	4	4	4	4	5	6		123
Button Flat	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2		54
Perry Partridge	5	5	5	5	5	5	5	5	5	4	4	4	4	4	4		137
Progress	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2		72
Snelle	13	13	11	10	10	22	22	21	14	13	11	14	13	12	10		375
[illegible]	10	10	9	7	5	5	4	9	4	4	3	3	3	3	3		278
Wheelock	4	4	4	4	4	4	4	4	4	4	3	3	3	3	3		133
Covey Canal at Head	91	94	78	77	74	74	77	70	74	74	71	72	69	57	66		2,375
Covey Canal--Bruner Cr.	9	9	8	8	7	7	7	7	7	8	8	8	8	5	8		177
Covey Canal--Spring Cr.	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4		109
Tanner, Hunt & Garrett	9	9	9	9	8	8	8	8	7	7	5	5	6	6	6		291
Wilson Water	22	22	22	23	24	25	25	25	24	23	22	22	21	21	20		805
[illegible] (Collett Creek)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
John Bourne-Collett Cr.	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4		176
Ferguson (Collett Cr.)	3	3	3	4	5	5	5	5	5	5	5	5	5	5	5		132
Olsen Canal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
Stoner-Nichols (So. Br.)	4	4	4	5	5	5	6	6	6	6	6	6	6	5	6		137
Morgan (South Branch)	3	3	3	3	3	3	2	2	3	3	3	2	0	0	0		110
Cokeville Water-So. Br.	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		88
Tanner 1 (South Br.)	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		87
Smiths Fk Canal-So. Br.	3	3	3	3	3	3	4	3	3	3	3	3	2	2	2		137
South Br 2-Smiths Fork	1	1	2	3	3	3	4	4	4	3	3	3	2	2	2		94
South Br 1-Smiths Fork	13	13	13	14	14	15	16	15	14	13	12	11	10	10	10		513
TOTAL WYO. DIVERSIONS	309	301	323	323	322	325	340	346	323	307	292	288	284	300	289		10,461
IDAHO DIVERSIONS																	
Miller Ditch	10	10	11	11	11	11	11	12	11	10	8	6	5	4	4		269
Huffer Canal	22	22	21	20	18	15	14	18	16	13	10	10	11	12	16		520
Sorensen Ditch	7	14	15	15	14	14	14	14	15	15	14	14	14	12	7		343
Jensen Ditch	5	6	8	8	9	7	7	7	7	6	6	6	6	6	6		197
Loyd Ditch	3	3	3	3	3	2	2	2	2	2	1	1	1	1	1		37
Dingle Irrig. Canal	35	35	37	40	42	41	41	41	41	39	32	32	32	32	33		1,059
Beam Crockett Canal	42	43	41	45	53	55	55	56	51	50	51	55	55	54	42		1,722
Black Otter Canal	104	92	92	91	96	95	96	104	104	96	86	79	70	72	75		2,695
Preston Montpelier Co.	77	89	90	95	61	56	55	63	62	50	38	49	43	47	47		1,595
Lanesco Kent Canal	13	14	15	15	16	15	15	16	17	15	13	11	10	9	10		409
West Fork Canal	109	108	140	140	122	97	88	90	104	96	78	62	52	44	54		2,896
Pacific Ditch	6	6	6	7	7	7	6	6	6	6	2	6	6	5	6		92
SUBTOTAL	475	440	456	457	446	426	405	435	436	407	371	334	318	300	311		11,841
Rainbow Inlet Co-Bear L.	1	2	3	5	7	8	3	3	1	1	3	1	1	1	1		466
Bear R below Stewart Dam	4	5	6	6	6	5	6	5	6	6	5	5	4	4	3		192
Idaho Divertible Flow	480	453	464	468	459	437	413	441	443	414	377	340	317	305	316		12,501
Wyoming Divertible Flow	309	321	329	323	322	325	349	346	323	307	289	286	284	300	288		10,461
Total Divertible Flow	789	774	793	791	781	762	762	787	766	721	666	626	601	605	606		23,062
Wyoming Allocation (43%)	317	333	341	340	336	328	328	338	329	310	286	269	258	260	261		9,916
Idaho Allocation (57%)	421	441	452	451	445	434	434	449	437	411	380	356	343	345	345		13,146

Table 2

DAILY DISCHARGE IN CFS OF SMITHS FORK & BEAR RIVER CANALS WITH COMPACT ALLOCATION IN CENTRAL DIVISION

JULY 1966	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
WYOMING DIVERSIONS																
BEAR RIVER CANALS																
Garrett	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Sights	7	8	7	7	7	6	6	16	11	8	7	7	7	8	5	6
Wyman East	7	8	8	6	6	6	6	5	6	7	7	9	8	8	9	6
Wyman West	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Snyder	7	6	6	6	6	4	4	5	7	7	7	7	7	7	7	7
Rocky Point	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cook	63	65	58	58	42	33	37	60	57	48	43	37	37	38	37	37
J. B. Richards	2	2	2	2	1	1	1	8	7	4	4	2	0	2	1	2
TRIBUTARY CANALS																
Goodell Co-Pine Cr	0	0	0	0	0	0	0	0	0	0	3	3	3	3	3	3
V. H. Canal - Pine Cr	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Collett Canal-Pine Cr	0	0	0	0	0	7	7	7	7	7	4	0	0	0	0	0
Grade Creek Canal	3	3	3	3	3	0	0	0	0	0	0	0	0	0	0	0
Diamond R&C 1-Bruner	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Haggerty West-Pine Cr	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sublette & ab Thompson	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
SMITHS FORK CANALS																
Quinn-Kourse	6	6	6	5	6	6	6	6	5	5	5	5	5	5	4	4
Button Flat	2	2	2	1	1	1	1	1	1	1	0	0	0	0	0	0
Perry Partridge	4	4	3	3	3	3	4	3	3	3	2	3	3	3	3	3
Progress	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Eselle	10	11	20	19	17	14	14	14	14	14	12	12	13	8	7	7
Cooper	3	3	3	3	3	3	3	3	3	3	3	3	4	6	8	8
Wheelock	4	4	4	4	3	3	3	3	3	3	3	4	4	6	4	7
Covey Canal at Head	60	64	63	63	60	60	60	59	57	58	58	56	54	52	50	42
Covey Canal--Bruner Cr	3	3	3	3	3	7	7	7	7	7	7	7	7	7	7	7
Covey Canal--Spring Cr	4	4	4	4	4	4	4	4	4	4	5	4	4	4	3	4
Tanner, Hunt & Garrett	0	3	4	4	4	4	4	4	4	3	3	3	3	3	2	2
Whiten Water	19	19	17	17	16	15	15	16	16	17	18	18	18	17	15	16
Martin (Collett Creek)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
John Bourne-Collett Cr	4	4	4	4	4	4	4	4	4	4	2	2	2	2	2	2
Forkman (Collett Cr)	5	4	4	3	3	3	3	3	3	3	0	0	0	0	0	0
Olson Canal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stoner-Nichols (So Br)	5	5	5	5	5	4	4	4	5	5	5	5	4	4	5	5
Marton (South Branch)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cokeville Water-So Br	2	2	2	2	2	3	3	3	3	3	3	3	2	2	2	2
Tanner 1 (South Br)	2	2	2	2	2	1	0	0	0	0	0	0	0	0	0	0
Smiths Fk Canal-So Br	2	2	2	2	2	0	0	0	0	0	0	0	0	0	0	0
South Br 2-Smiths Fork	2	2	2	3	2	3	3	4	4	2	4	4	4	4	4	5
South Br 1-Smiths Fork	10	10	9	9	9	7	6	6	6	7	8	8	8	8	7	7
TOTAL WYO. DIVERSIONS	278	259	256	256	237	210	215	259	248	237	226	214	214	210	201	203
IDAHO DIVERSIONS																
Miller Ditch	4	5	4	4	4	4	4	4	5	5	6	8	0	11	11	10
Ruffen Canal	12	12	11	10	10	10	10	12	17	12	12	10	10	11	10	9
Sorensen Ditch	7	7	7	6	6	6	6	7	10	14	14	14	14	14	16	12
Jensen Ditch	6	6	5	5	5	5	5	7	7	9	9	6	0	6	6	5
Lord Ditch	1	1	1	0	0	0	0	2	2	1	1	1	1	1	1	1
Dingle Irrig. Canal	38	38	38	38	38	38	38	38	38	41	43	43	43	44	43	43
Bear Crockett Canal	32	32	32	32	32	32	32	32	32	31	30	30	30	30	32	32
Black Otter Canal	74	89	89	80	62	61	62	62	38	30	84	73	73	74	70	42
Preston Montpelier Co	48	54	53	53	5	0	24	30	40	49	42	41	47	46	47	40
Lanesse Kent Canal	10	10	10	12	13	12	10	8	17	19	16	15	12	9	2	2
West Fork Canal	54	60	58	65	70	75	64	55	83	113	70	9	9	9	8	0
Pearsun Ditch	6	6	5	5	6	5	6	6	7	7	7	7	7	8	6	6
SUBTOTAL	310	327	302	277	273	262	271	276	297	361	346	278	272	268	255	226
Rainbow Inlet Co-Bear L.	1	1	1	1	1	1	2	6	2	3	10	69	55	50	41	36
Kent R below Stewart Dam	3	3	3	3	5	6	5	4	6	10	8	11	10	10	10	9
Idaho Divertible Flow	316	327	314	282	279	273	278	284	388	414	373	358	337	328	306	271
Wyoming Divertible Flow	278	259	256	256	237	216	216	259	245	237	220	214	214	210	201	203
Total Divertible Flow	594	586	580	538	516	489	494	543	633	651	593	572	551	538	507	474
Wyoming Allocation (43%)	255	252	249	231	222	210	212	233	272	280	255	246	237	231	218	204
Idaho Allocation (57%)	339	334	331	307	294	279	282	310	361	371	338	326	314	307	289	270

JULY 1966	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total
WYOMING DIVERSIONS																
BEAR RIVER CANALS																
Garrett	2	2	2	2	2	2	0	0	0	0	2	2	2	2	2	62
Sights	5	5	5	10	9	9	9	9	9	8	8	8	5	8	8	233
Wyman East	2	2	7	6	6	6	5	5	5	5	5	5	5	5	5	166
Wyman West	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Snyder	6	6	4	6	6	6	6	6	6	5	5	6	6	6	5	202
Rocky Point	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cook	37	37	33	33	37	35	35	32	29	25	14	15	16	16	20	1,161
J. B. Richards	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42
TRIBUTARY CANALS																
Goodell Co-Pine Cr	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	67
V. H. Canal - Pine Cr	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	233
Collett Canal-Pine Cr	0	0	0	0	0	0	0	0	0	2	3	3	3	3	3	85
Grade Creek Canal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Diamond R&C 1-Bruner	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Haggerty West-Pine Cr	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sublette & ab Thompson	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	31
SMITHS FORK CANALS																
Quinn-Kourse	4	5	5	5	5	5	4	4	4	4	4	4	4	4	4	153
Button Flat	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	19
Perry Partridge	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2	88
Progress	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	62
Eselle	9	8	7	6	5	5	4	4	2	4	4	4	4	4	5	297
Cooper	9	8	6	5	5	5	0	0	7	0	0	5	6	0	0	106
Wheelock	7	7	6	5	4	4	4	3	3	4	4	4	4	3	2	133
Covey Canal at Head	50	53	55	54	55	56	56	54	51	50	49	48	40	46	46	1,597
Covey Canal--Bruner Cr	7	7	0	6	6	6	6	6	6	6	6	6	6	6	6	209
Covey Canal--Spring Cr	4	4	4	4	4	4	4	4	3	3	3	3	3	3	3	117
Tanner, Hunt & Garrett	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	74
Whiten Water	16	16	16	16	15	15	15	15	15	15	15	14	15	17	18	501
Martin (Collett Creek)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
John Bourne-Collett Cr	3	3	3	3	3	3	3	3	3	4	4	4	3	3	4	106
Forkman (Collett Cr)	3	3	3	3	3	3	3	3	3	2	0	0	0	0	0	68
Olson Canal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stoner-Nichols (So Br)	4	5	4	4	3	3	3	3	3	3	3	3	3	3	3	127
Marton (South Branch)	0	0	0	0	0	0	0	0	1	2	2	2	2	2	2	16
Cokeville Water-So Br	3	3	3	3	3	2	2	2	2	2	2	2	2	2	2	75
Tanner 1 (South Br)	0	0	2	2	2	2	1	0	0	0	0	0	0	0	1	22
Smiths Fk Canal-So Br	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
South Br 2-Smiths Fork	3	3	2	2	2	2	2	2	2	1	1	1	1	1	1	73
South Br 1-Smiths Fork	7	8	6	6	6	5	6	6	5	6	6	6	6	6	6	214
TOTAL WYO. DIVERSIONS	204	201	197	198	197	197	187	182	178	174	161	164	161	156	171	6,491
IDAHO DIVERSIONS																
Miller Ditch	10	10	10	10	10	10	10	10	3	0	0	3	7	7	7	197
Ruffen Canal	8	8	9	9	9	10	9	8	7	5	5	5	4	4	4	288
Sorensen Ditch	11	11	8	0	0	0	8	11	11	5	0	3	3	3	3	253
Jensen Ditch	5	2	0	0	0	0	0	0	0	0	0	0	0	0	0	100
Lord Ditch	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	21
Dingle Irrig. Canal	43	43	43	43	40	40	47	46	44	44	44	40	37	37	37	1,290
Bear Crockett Canal	32	32	32	32	22	22	22	22	21	20	20	0	0	0	0	1,016
Black Otter Canal	42	42	41	41	40	35	35	35	35	24	24	24	24	24	20	1,600
Preston Montpelier Co	40	36	36	35	32	45	50	40	44	43	43	43	35	25	23	1,193
Lanesse Kent Canal	3	0	5	5	4	0	6	8	7	6	6	8	11	8	10	293
West Fork Canal	8	8	8	9	8	0	8	8	7	7	7	7	10	24	24	978
Pearsun Ditch	4	3	2	0	0	0	0	0	0	4	4	4	4	4	4	132
SUBTOTAL	210	212	206	197	186	200	192	192	176	159	154	137	143	135	143	7,378
Rainbow Inlet Co-Bear L.	36	30	45	44	45	61	67	64	45	38	38	36	25	8	0	872
Kent R below Stewart Dam	8	7	6	5	5	5	3	4	5	5	4	6	6	5	5	193
Idaho Divertible Flow	265	249	257	249	238	271	264	258	224	202	197	179	176	143	164	8,440
Wyoming Divertible Flow	204	204	197	198	197	197	187	182	178	174	161	164	161	160	171	6,421
Total Divertible Flow	467	453	454	444	435	468	451	440	402	376	358	343	336	310	325	14,861
Wyoming Allocation (43%)	201	195	195	191	187	201	194	189	173	162	154	147	144	133	140	6,412
Idaho Allocation (57%)	266	258	259	253	248	267	257	251	229	214	204	196	192	177	185	8,449

Table 3

DAILY DISCHARGE IN CFS OF SMITHS FORK & BEAR RIVER CANALS
WITH COMPACT ALLOCATION IN CENTRAL DIVISION

AUGUST 1966	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
WYOMING DIVERSIONS																																
BEAR RIVER CANALS																																
Garrett	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Sights	7	7	7	6	6	5	5	5	5	5	6	6	6	6	7	7	5	6	5	6	6	5	0	0	0	0	0	0	0	0	0	132
Wyman East	5	5	5	5	5	5	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	147
Wyman West	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Snyder	5	5	5	5	5	5	5	4	4	5	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	137
Rocky Point	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cook	22	23	21	22	27	24	22	19	18	18	15	15	14	14	14	14	15	16	18	19	16	16	17	15	14	14	14	14	14	13	13	524
J. R. Richards	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRIBUTARY CANALS																																
Goodell Cr - Pine Cr	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	124
Y. H. Canal - Pine Cr	7	7	7	7	7	7	7	7	6	6	5	5	6	6	6	5	6	5	5	6	6	6	6	6	6	6	6	6	6	6	6	184
Collett Canal-Pine Cr	3	3	3	3	3	2	2	2	2	3	3	3	3	3	3	2	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	80
Grade Creek Canal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dimond Res 1-Bruner	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Haggerty West-Pine Cr	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sublette C. at Thompson	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	31
SMITHS FORK CANALS																																
Quinn-Bourne	4	4	4	4	4	4	3	3	3	3	3	3	3	3	3	3	2	2	2	2	2	2	2	2	2	2	2	2	1	0	0	72
Button Flat	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Perry Partridge	2	1	0	0	0	0	0	0	0	0	0	0	2	2	4	4	3	3	3	3	3	2	3	3	1	0	0	0	0	0	0	43
Bingham	3	3	3	3	3	3	3	3	3	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2	0	0	0	0	0	0	0	68
Snells	0	5	5	5	5	5	5	5	5	5	5	6	7	7	7	6	6	6	6	6	6	5	4	4	3	3	3	2	0	0	0	149
Cooper	3	3	3	3	3	3	3	3	3	3	4	4	4	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	118
Wheelock	0	1	0	0	0	0	0	0	0	0	0	0	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	0	0	0	0	78
Covey Canal at Head	41	33	35	35	34	33	33	31	30	28	23	23	27	25	24	22	21	20	20	20	15	17	14	14	14	14	14	13	13	13	13	767
Covey Canal--Bruner Cr	6	6	6	6	6	6	6	6	6	6	6	5	5	5	5	5	6	5	5	5	5	5	5	5	5	5	5	5	5	5	5	167
Covey Canal--Spring Cr	3	3	3	3	3	4	4	4	4	4	4	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	114
Tanner, Hunt & Garrett	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Whites Water	18	18	17	16	16	16	15	15	15	14	13	14	13	13	13	14	14	15	16	15	17	17	17	17	16	16	15	15	14	13	13	475
Martin (Collett Creek)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
John Bourne-Collett Cr	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	62
Fornson (Collett Cr)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Olson Canal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stoner-Nichols (So. Br)	3	3	3	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	2	2	2	2	78
Norman (South Branch)	2	2	2	2	2	2	2	2	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Cokeville Water-So Br	3	3	3	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	45
Tanner 1 (South Br)	2	2	2	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
Smiths Fk Canal-So Br	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Br 2-Smiths Fork	1	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	120
South Br 1-Smiths Fork	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	2	2	3	3	3	5	2	2	107
TOTAL WYO. DIVERSIONS	165	158	164	149	153	149	142	135	133	131	128	125	127	123	125	123	120	122	125	126	125	118	112	110	103	102	100	92	98	98	99	3,877
IDAHO DIVERSIONS																																
Miller Ditch	7	7	7	6	6	6	5	5	6	6	6	6	5	5	5	5	5	5	4	4	4	3	3	3	3	4	4	4	4	4	4	150
Hoffer Canal	4	4	3	6	7	7	6	7	9	11	10	9	7	5	5	5	6	5	5	4	4	4	4	4	4	5	6	6	9	11	11	192
Sorensen Ditch	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	2	5	2	7	5	4	8	8	8	7	7	7	7	8	8	135
Jensen Ditch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	3	3	3	3	4	3	3	3	1	0	0	0	2	2	3	38
Lords Ditch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dingle Irrig. Canal	22	22	22	20	23	22	22	10	0	0	0	0	25	25	25	22	24	24	25	25	25	27	25	27	25	25	25	25	24	24	24	647
Bear Crockett Canal	0	0	25	30	0	0	0	0	0	0	5	5	2	2	3	2	2	3	2	10	20	20	22	21	22	22	22	22	22	22	22	316
Black Otter Canal	37	33	33	35	41	41	40	40	40	40	41	42	40	35	35	35	33	33	33	30	20	23	22	22	22	22	22	21	19	18	18	972
Preston Montpelier Co.	75	27	31	22	38	40	35	35	41	45	24	12	0	0	0	23	23	23	23	22	20	17	16	16	15	15	15	15	15	14	14	585
Laroque Kent Canal	11	11	10	11	13	14	14	14	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	2	3	3	2	115
West Fork Canal	24	24	24	22	22	22	22	22	24	24	15	10	10	10	10	10	10	10	9	8	8	7	7	7	8	5	4	5	5	2	2	387
Bagley Ditch	4	4	4	4	3	4	4	3	3	3	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42
SUBTOTAL	156	159	170	156	162	166	160	146	137	137	112	98	86	86	90	100	110	102	107	110	115	112	111	111	111	112	112	110	108	116	116	3,761
Rainbow Inlet Ca-Bear L.	7	9	13	12	13	16	20	22	32	40	81	90	107	67	39	44	36	32	36	36	35	42	22	28	21	14	8	8	10	8	7	964
Bear R below Stewart Dam	0	3	3	5	3	6	5	5	9	7	8	8	2	0	6	8	8	7	7	7	7	20	6	5	6	6	5	5	5	6	6	187
Idaho Divertible Flow	158	164	188	173	180	187	185	174	175	184	202	196	202	166	161	146	153	151	149	158	154	150	146	142	138	132	125	123	124	129	129	4,921
Wyoming Divertible Flow	165	158	154	149	153	149	142	135	133	131	128	125	127	128	125	123	120	122	125	126	125	118	112	110	103	102	100	96	96	96	99	3,877
Total Divertible Flow	323	322	342	322	333	336	327	309	308	315	329	320	329	283	276	266	273	273	274	276	279	268	258	252	241	234	225	219	220	227	227	8,798
Wyoming Allocation (43%)	139	138	147	138	143	144	141	133	132	135	141	138	141	126	119	114	117	117	118	119	120	115	111	108	104	101	97	94	95	98	98	3,781
Idaho Allocation (57%)	184	184	195	184	190	192	186	176	176	180	188	182	188	157	157	152	156	156	156	157	159	153	147	144	137	133	128	125	127	129	129	5,017

Table 4

DAILY DISCHARGE IN CFS OF SMITHS FORK & BEAR RIVER CANALS
WITH COMPACT ALLOCATION IN CENTRAL DIVISION

SEPTEMBER 1966	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
WYOMING DIVERSIONS																																
BEAR RIVER CANALS																																
Garrett	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
Sights	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
Wyman East	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5		150
Wyman West	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
Snyder	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	4	4	4	4	4	4	4	4	4	4	4		141
Rocky Point	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
Cook	13	13	13	20	25	12	0	1	16	16	16	16	16	17	19	21	20	18	18	18	18	24	27	27	27	26	26	26	22	16		552
J. R. Richards	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
TRIBUTARY CANALS																																
Goodell Co. - Pine Cr	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	7	7	7	7	7	7	7	7	7	7	7	7	7	7		165
V. H. Canal - Pine Cr	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5	4	3	2	2	2	2	2	2	2	2	2	2	2	2		126
Collett Canal-Pine Cr	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	4	4	4	4	4	4	4	4	4	4	4	4	4	2		89
Grade Creek Canal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
Diamond P&C 1-Bruner	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
Haggerty West-Pine Cr	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
Sublette C. at Thompson	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		30
SMITHS FORK CANALS																																
Quinn-Bourne	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
Hotton Flat	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
Perry Partridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
Progress	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
Smelie	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
Cooper	4	4	5	5	5	4	4	4	4	4	3	3	3	3	3	3	4	3	3	3	3	3	3	3	3	3	3	4	4	4		107
Wheelock	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
Covey Canal at Head	13	13	12	12	11	8	8	7	7	7	7	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		109
Covey Canal--Bruner Cr	7	7	7	7	7	7	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		49
Covey Canal--Spring Cr	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4		120
Tanner, Hunt & Garrett	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
Whites Water	15	15	14	14	14	14	14	14	14	15	16	16	16	16	17	18	19	19	19	18	18	18	18	18	18	18	18	10	10	13		474
Martin (Collett Creek)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
John Bourne-Collett Cr	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4		120
Ferguson (Collett Cr)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
Olson Canal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
Stoner-Nichols (So Br)	2	2	2	2	2	2	2	2	2	3	3	3	3	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		36
Morgan (South Branch)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
Cokeville Water-So Br	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	0	1	2	2	2	2	2	2	2	2		56
Tanner 1 (South Br)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
Smiths Fk Canal-So Br	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
South Br 2-Smiths Fork	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		2
South Br 1-Smiths Fork	8	8	8	8	8	8	8	8	8	8	8	9	11	11	11	11	11	11	11	11	14	14	14	14	13	13	12	12	12	12		315
TOTAL WYO. DIVERSIONS	97	95	100	107	105	88	76	69	85	86	85	85	83	83	85	87	89	85	85	82	84	91	95	95	94	93	92	85	81	78		2,646
IDAHO DIVERSIONS																																
Miller Ditch	4	5	5	5	5	5	5	5	5	4	3	3	3	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		61
Huffer Canal	12	12	13	13	12	11	11	12	11	10	9	9	9	9	11	13	8	5	4	4	4	4	4	4	4	3	3	3	3	3		252
Sorensen Ditch	6	7	7	7	11	13	13	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		74
Jensen Ditch	3	3	3	3	3	3	3	3	4	5	7	8	9	8	8	8	8	8	8	8	8	8	9	8	8	7	7	7	7	7		197
Loyd Ditch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
Dingle Irrig. Canal	24	25	25	24	24	23	22	23	23	22	22	21	20	20	20	21	21	21	10	0	16	22	29	29	26	27	29	29	28	28		650
Beus Crockett Canal	32	32	33	32	32	32	32	32	32	32	32	32	32	32	32	33	33	33	33	33	32	32	13	4	3	4	4	4	4	4		752
Black Otter Canal	16	18	13	19	19	19	18	18	18	17	15	15	14	14	14	14	14	14	14	14	14	38	70	70	68	69	70	71	70	70		932
Preston Montpelier Co	16	19	21	23	22	20	18	23	25	22	22	21	17	17	14	14	15	15	15	15	14	11	10	10	10	15	15	14	14	14		500
Lorocco Kent Canal	3	4	4	4	4	4	4	5	6	6	7	7	10	10	14	14	7	0	9	0	0	0	0	0	0	0	0	0	0	0		112
West Fork Canal	2	2	2	3	1	1	1	8	12	12	11	11	10	10	10	10	10	11	26	18	17	11	10	10	10	7	7	10	11	12		274
Fugmire Ditch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
SUBTOTAL	120	127	132	133	134	130	127	138	136	130	128	127	123	123	124	127	117	109	110	92	105	130	142	134	130	132	135	138	137	137		3,807
Rainbow Inlet Ca-Bear L.	12	15	18	18	17	14	13	12	9	5	5	4	4	4	16	16	26	27	24	30	26	28	26	35	34	31	29	25	25	32		569
Bear R below Stewart Dam	5	5	5	5	5	5	4	5	5	5	5	5	4	4	4	5	6	6	6	6	6	5	6	5	5	5	6	6	7	7		162
Idaho Divertible Flow	137	137	156	156	156	149	144	155	150	140	139	135	131	131	144	148	149	141	140	128	137	164	174	175	170	169	170	169	169	166		4,538
Wyoming Divertible Flow	97	95	100	107	105	88	76	69	85	86	85	85	83	83	85	87	89	85	85	82	84	91	95	95	94	93	92	85	81	78		2,646
Total Divertible Flow	234	232	256	263	261	237	220	224	235	226	224	221	214	214	229	235	238	226	225	210	221	255	269	270	264	262	262	254	250	244		7,184
Wyoming Allocation (43%)	101	104	110	113	112	102	95	96	101	97	96	95	92	92	98	101	102	97	97	90	95	110	116	116	114	113	113	109	108	105		3,090
Idaho Allocation (57%)	133	132	146	150	149	135	125	128	134	129	128	126	122	122	131	134	136	129	128	120	126	145	153	154	150	149	149	145	142	139		4,094

Table 5

APPENDIX A

L. WILLIAM ANDERSON
CERTIFIED PUBLIC ACCOUNTANT
2870 EAST 3300 SOUTH • TELEPHONE 487-7176
SALT LAKE CITY 9, UTAH

January 17, 1967

Bear River Commission
Utah State Capitol Building
Salt Lake City, Utah

Gentlemen:

In accordance with your instructions, I have examined the records and accounts of the Bear River Commission for the fiscal year ended June 30, 1966 and now submit my report thereon.

My audit included a review of the financial transactions, and examination of the statement of revenue and expenditures for the year and budget estimates and related expenditures, as published with minutes of the meetings held November 22, 1965 and May 4, 1966.

I confirmed the funds available at June 30, 1966 by direct correspondence with the depository. My examination was made in accordance with generally accepted auditing standards and accordingly included such tests of the accounting records and such other auditing procedures as I considered necessary in the circumstances. All cash receipts have been properly accounted for and all disbursements were duly authorized and appeared in order. Operational expenditures for the program are made directly by the United States Geological Survey and are set out in detail in my report. Locally administrative expenses amounting to $1,209.07 were disbursed by the local office.

The results of my examination are presented herewith and include comments and explanatory detail as appropriate in the following described statements:

Exhibit "A" - Statement of Revenue and expenditures for the fiscal year ended June 30, 1966.

Exhibit "B" - Statement of available revenue and appropriations thereof for the fiscal year, showing balances unexpended at June 30, 1966.

Schedule "A-1" - Statement of expenditures--stream-gauging program, allocated to the United States Geological Survey and to the Bear River Commission.

GENERAL COMMENTS

The Bear River Compact is a tri-state agreement between the signatory States of Wyoming, Idaho, and Utah with respect to the development and utilization of the waters of the Bear River. The Bear River Commission was orgainzed April 5, 1958, and by-laws were adopted April 26, 1958, as an interstate administrative agency to carry out provisions of the Bear River Compact. The Commission is composed of ten Commissioners, three each with voting power, representing the States of Wyoming, Utah, and Idaho, and one, the United States, without vote. All expenses are charged to and paid by the three States on an equal basis.

As in prior years, the Commission entered into a cooperative agreement with the Geological Survey, United States Department of the Interior, at the beginning of the year, for the operation and maintenance of a gauging-station network. The expenses pertaining to this work are shared equally by the Commission and the Geological Survey, while other expenses incurred by the United States Geological Survey, which pertain directly to the compact administration are wholly financed by the Commission. Details of the financial transactions relating to this agreement for the fiscal year ended June 30, 1966, are presented in Schedule "A-1".

In my opinion, the accompanying statements of revenue and expenditures and supplemental statement of budget appropriations and related disbursements present fairly the cash position of the Bear River Commission at June 30, 1966, and the results of the financial transactions for the period then ended, in conformity with generally accepted accounting principles applied on a consistant basis.

Yours very truly,

L. William Anderson

Exhibit "A"

BEAR RIVER COMMISSION

Statement of Revenue & Expenditures
For the Fiscal Year Ended June 30, 1966

REVENUE:			
State of Wyoming		$10,750.00	
State of Idaho		10,750.00	
State of Utah		10,750.00	
			$32,250.00
EXPENDITURES:			
Commission's portion of direct expenses of the stream-gauging program, Schedule "A-1"			
Personal Services	$22,568.50		
Travel and subsistance	2,401.00		
General office	1,838.00		
Fiscal and administrative	1,223.50		
Washington office charges	2,769.00		
Total -- Schedule "A-1"		$30,800.00	
Administrative expenses:			
Office supplies and postage	$ 81.09		
Auditing fee	200.00		
Legal consultant	300.00		
Treasurer's bond	65.63		
Transcript of minutes	70.00		
Printing annual report	492.35		
		1,209.07	32,009.07
EXCESS OF REVENUE OVER EXPENDITURES FOR THE FISCAL YEAR ENDED JUNE 30, 1966			$ 240.93
FUNDS AVAILABLE AT JULY 1, 1965			5,758.69
FUNDS AVAILABLE AT JUNE 30, 1966			$ 5,999.62
Expenditures as above			$32,009.07
The Portion of expenditures incurred through stream-gauging program allocated to and paid direct by United States Geological Survey			23,702.00
Total expenditures as per Exhibit "B"			$55,711.07

Exhibit "B"

BEAR RIVER COMMISSION

Statement of Available Revenue and Appropriation Thereof For the Fiscal Year, Showing Balances at June 30, 1966

Cash Revenues:	Expected Revenue & Expenditures as Budgeted	Actual Revenue & Expenditures	Balance or Deficit (-) Compared to Budget
Balance--funds on hand at July 1, 1965	$ 5,758.69	$ 5,758.69	$ -0-
Revenue Receipts			
State of Wyoming	10,750.00	10,750.00	-0-
State of Idaho	10,750.00	10,750.00	-0-
State of Utah	10,750.00	10,750.00	-0-
	$38,008.69	$38,008.69	$ -0-
FUNDS FURNISHED DIRECT BY UNITED STATES GEOLOGICAL SURVEY	22,900.00	23,702.00	802.00
Total Funds Available	$60,908.69	$61,710.69	$ 802.00
Appropriation Accounts:			
Stream-gauging--Schedule"A-1"	$45,800.00	$46,602.00	$ (802.00)
Personal services	5,690.00	5,690.00	-0-
Travel and subsistance	1,000.00	815.00	185.00
Fiscal and administrative	300.00	300.00	-0-
Washington office charge	710.00	705.00	5.00
General office expense	300.00	390.00	(90.00)
Printing annual report	500.00	492.35	7.65
Treasurer's bond and audit	300.00	265.63	34.37
Transcript of minutes	150.00	70.00	80.00
Legal consultant	300.00	300.00	-0-
Miscellaneous	100.00	81.09	18.91
	$55,150.00	$55,711.07	$ (561.07)
Unappropriated at July 1, 1965	5,758.69	-0-	5,758.69
	$60,908.69	$55,711.07	$ 5,197.62
BALANCE	$ -0-	$ 5,999.62	$ 5,999.62
FUNDS AVAILABLE AT JUNE 30, 1966		$ 5,999.62	$ 5,999.62

Schedule "A-1"

BEAR RIVER COMMISSION

Statement of Expenditures--Stream-Gauging Program
Allocated to the United States Geological Survey and to the
Bear River Commission for the Fiscal Year Ended June 30, 1966

	Allocable Expenditures			Charged Direct to Bear River Commission	Total Expenses to Bear River Commission
	Total	U.S.G S. 50%	Bear River Commission 50%		
Personal services	$34,559.00	$17,680.50*	$16,878.50	$ 5,690.00	$22,568.50
Travel and subsistance	3,172.00	1,586.00	1,586.00	815.00	2,401.00
General office	2,896.00	1,448.00	1,448.00	390.00	1,838.00
Fiscal and administration	1,847.00	923.50	923.50	300.00	1,223.50
Washington office	4,128.00	2,064.00	2,064.00	705.00	2,769.00
	$46,602.00	$23,702.00	$22,900.00	$ 7,900.00	$30,800.00

*Unequal distribution of personal services expenditures due to supplemental Federal appropriation for salary increases during 4th quarter.

APPENDIX B

GAGING STATION RECORDS

Records of streamflow for State line and other key stations are included herein. The record consists of description of the station and a table showing the daily discharge in cubic feet per second and monthly and yearly runoff in acre-feet for the 1966 water year.

The description of the station gives the location, drainage area, records available, type and history of gage, average discharge, extremes of discharge, general remarks, and a statement of cooperation where applicable. This is essentially the same information published in annual water-supply papers of the Geological Survey.

In the table of daily discharge, the figures for the maximum day and the minimum day for each month are underlined. If the figure is repeated, it is underlined only on the first day of its occurrence.

In the monthly summary below the daily table, the line headed "Total" gives the sum of the daily figures; it is the total second-foot-days for the month. The line headed "Mean" gives the average flow in cubic feet per second (second-feet) during the month. Flow for the month is expressed in acre-feet (line-headed "Ac-ft").

Records included herein have been collected by the U. S. Geological Survey through cooperative agreement with the Bear River Commission and by the Utah Power & Light Company.

BEAR RIVER BASIN

10-112. West Fork Bear River at Whitney Dam site, near Oakley, Utah

Location.--Lat 40°50'30", long 110°55'20", in NE¼ sec.9, T.1 N., R.9 E., on left bank, 1,380 ft below Whitney Dam, 7 miles upstream from Deer Creek, 21.5 miles northeast of Oakley.

Drainage area.--7.5 sq mi, approximately.

Records available.--October 1963 to September 1966.

Gage.--Water-stage recorder. Altitude of gage is 6,120 ft (from topographic map).

Extremes.--Maximum discharge during year, 65 cfs May 9 (gage height, 1.62 ft); no flow July 24 to Sept. 30.
1963-66: Maximum discharge, 145 cfs June 13, 1965 (gage height, 1.98 ft); no flow July 24 to Sept. 30, 1966.

Remarks.--Records fair. No diversions above station.

Discharge, in cubic feet per second, water year October 1965 to September 1966

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5.6	3.9	5.4	5.6	3.6	3.0	4.0	6.0	33	3.0		
2	4.9	3.9	5.4	5.6	3.5	3.0	6.0	12	28	6.4		
3	4.5	3.9	5.2	5.4	3.6	3.0	7.0	16	28	7.3		
4	4.3	3.8	5.2	4.9	3.6	2.9	7.0	25	27	6.8		
5	3.9	3.9	4.9	4.9	3.6	2.9	7.0	34	25	6.2		
6	3.9	3.9	4.9	4.9	3.6	2.7	6.8	38	24	6.0		
7	3.6	3.9	4.9	4.9	3.5	2.6	6.8	45	23	6.0		
8	3.6	3.9	4.7	5.6	3.5	2.6	6.5	48	22	6.0		
9	3.6	3.9	4.7	5.2	3.6	2.6	6.2	50	21	6.5		
10	3.5	3.9	4.7	4.9	3.6	2.6	6.0	45	21	6.2		
11	3.5	3.9	4.7	4.6	3.5	2.6	6.0	34	18	6.2		
12	3.5	4.1	4.7	4.6	3.5	2.4	6.0	29	17	6.8		
13	3.4	4.5	4.9	4.6	3.5	2.4	6.0	26	16	6.2		
14	3.6	4.3	4.9	4.5	3.5	2.4	5.8	25	15	5.4		
15	4.3	4.5	4.9	4.6	3.5		5.8	28	14	5.9		
16	5.4	4.7	4.9	4.5	3.3		5.8	27	13	5.2		
17	5.4	4.7	4.7	4.5	3.3			26	12	5.4		
18	5.2	4.7	4.7	4.5	3.3			31	14	5.6		
19	4.7	4.7	4.7	4.5	3.3			34	12	5.4		
20	4.5	4.8	4.7	4.1	3.3			36	11	5.2		
21	4.3	4.0	4.7	3.8	3.3			39	11	4.9		
22	4.3	3.0	4.7	3.8	3.3			39	11	4.8		
23	4.3	10	4.7	3.9	3.3	3.0		35	11	3.5		
24	4.1	6.0	4.7	3.9	3.3		6.0	36	9.7	0		
25	4.1	6.0	4.7	3.9	3.2			38	9.0	0		
26	4.1	7.0	4.7	3.8	3.2			38	8.4	0		
27	4.1	6.0	4.9	3.8	3.0			39	7.8	0		
28	4.1	5.5	4.7	3.8	3.0			34	7.6	0		
29	4.1	5.5	4.7	3.6	-------			34	7.3	0		
30	4.1	5.5	4.7	3.6	-------			36	7.0	0		
31	3.9	-------	5.2	3.6	-------		-------	34	-------	0		-------
Total	130.3	147.5	150.2	138.0	95.6	88.7	184.7	1,024.0	487.3	157.2	0	0
Mean	4.20	4.92	4.85	4.45	3.42	2.86	6.16	33.0	16.3	4.44	0	0
Ac-ft	258	293	298	274	190	176	366	2,030	966	272	0	0

Calendar year 1965: Max 120 Min - Mean 12.7 Ac-ft 9,200
Water year 1965-66: Max 52 Min 0 Mean 7.05 Ac-ft 5,120

BEAR RIVER BASIN

10-115. Bear River near Utah-Wyoming State Line.

Location.--Lat 40°58', long 110°51', in SE¼ sec.30, T.3 N., R.10 E., on left bank just downstream from West Fork, 2.8 miles upstream from Utah-Wyoming State line.

Drainage area.--176 sq mi.

Records available.--July 1942 to September 1966.

Gage.--Water-stage recorder. Altitude of gage is 7,965 ft (from river-profile map).

Average discharge.--24 years, 185 cfs (133,900 acre-ft per year).

Extremes.--Maximum discharge during year, 1,910 cfs May 9 (gage height, 3.02 ft); maximum gage height, 3.49 ft Jan. 21 (backwater from ice); minimum discharge, 27 cfs Nov. 22.
1942-66: Maximum discharge, 2,860 cfs June 12, 1965 (gage height, 3.82 ft); minimum determined, 16 cfs Apr. 11, 1951, Nov. 6, 1954, Nov. 1, 1955, Oct. 30, 1956.

Remarks.--Records good except those for winter months, which are fair. Two diversions above station for irrigation of about 200 acres above and 2,600 acres below station.

Discharge, in cubic feet per second, water year October 1965 to September 1966

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	146	76	80	66	56	46	111	290	830	267	66	34
2	143	76	80	64	58	48	130	375	670	247	108	62
3	133	76	80	64	54	47	125	478	576	193	220	51
4	122	76	80	65	52	46	106	576	556	168	130	38
5	117	76	80	66	51	45	104	768	464	159	108	37
6	114	76	78	64	50	46	114	848	444	155	98	37
7	111	72	78	62	50	46	136	930	414	142	85	37
8	108	76	81	61	50	46	155	1,130	390	128	78	36
9	104	79	81	61	50	46	182	1,210	408	120	76	34
10	102	78	81	62	50	46	193	1,340	432	128	72	33
11	100	74	79	62	50	46	168	876	438	130	70	36
12	98	76	76	62	50	50	152	694	402	130	70	64
13	98	85	65	64	50	50	146	585	367	130	65	44
14	92	81	60	64	50	50	152	513	374	106	61	40
15	96	81	60	64	50	50	176	464	390	96	59	56
16	120	81	58	62	50	50	212	486	402	96	56	51
17	111	87	58	60	50	48	236	499	379	96	55	50
18	108	85	59	60	52	56	228	506	335	111	53	44
19	102	85	62	60	52	52	182	562	320	98	53	40
20	91	81	64	60	48	50	168	654	316	91	56	39
21	81	74	65	60	47	42	159	795	300	85	58	38
22	91	59	72	60	46	39	168	885	325	91	51	37
23	89	56	70	60	46	64	149	702	285	78	50	36
24	87	93	67	60	46	59	165	686	244	76	48	38
25	83	89	64	60	46	53	204	622	224	78	48	56
26	83	85	65	60	46	53	254	585	200	70	45	41
27	31	82	63	60	46	59	254	912	193	76	44	38
28	79	80	64	60	48	65	324	777	193	66	48	37
29	81	76	66	61	--------	72	336	718	179	61	70	35
30	79	76	70	58	---------	61	354	867	176	58	42	38
31	78	----------	69	58	---------	96	----------	813	----------	68	46	----------
Total	3,136	2,394	2,173	1,918	1,362	1,670	5,227	22,643	10,864	3,391	2,149	1,852
Mean	101	79.8	70.1	61.7	49.7	53.9	174	730	362	110	69.3	61.7
Ac-ft	6,220	4,750	4,310	3,730	2,760	3,310	10,370	44,910	21,750	7,120	4,260	3,670

Calendar year 1965: Max 2,390 Min 34 Mean 236 Ac-ft 216,700
Water year 1965-66: Max 1,340 Min 33 Mean 160 Ac-ft 116,200

Peak discharge (base 1,100 cfs).--May 9 (2330) 1,910 cfs (3.02 ft).

BEAR RIVER BASIN

10-157. Sulphur Creek above reservoir, near Evanston, Wyo.

Location.--Lat 41°09', long 110°48', in SW¼ sec.35, T.14 N., R.119 W., on right bank 1¼ miles downstream from Willow Creek, 2 miles upstream from Sulphur Creek Dam, and 11⅛ miles southeast of Evanston.

Drainage area.--64 sq mi, approximately.

Records available.--December 1957 to September 1966.

Gage.--Water-stage recorder. Altitude of gage is 7,170 ft (from river-profile map).

Average discharge.--8 years (1958-66), 11.4 cfs (8,250 acre-ft per year).

Extremes.--Maximum discharge during year 274 cfs Mar. 30 (gage height, 4.32 ft); no flow Aug. 27-31, Sept. 18-24.
1957-66: Maximum discharge, 1,220 cfs Apr. 21, 1965 (gage height, 6.02 ft); no flow at times in each year.

Remarks.--Records good except those for winter months, which are fair. Several diversions for irrigation above station.

Discharge, in cubic feet per second, water year October 1965 to September 1966

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9.2	3.0					90	25	4.0	3.4	0.3	0.1
2	7.7	3.2					68	32	2.5	4.7	.3	.1
3	6.7	3.4	10				48	46	2.4	2.2	.3	.1
4	6.1	3.6					30	51	2.1	1.3	.3	.1
5	5.6	3.6					24	54	2.7	.8	.2	.1
					5.0	3.0						
6	5.1	4.0					24	55	3.6	.5	.2	.1
7	5.1	4.3					27	54	4.9	.5	.2	.1
8	4.9	4.3	8.0				31	53	8.0	.4	.1	.1
9	4.7	4.3					34	42	8.6	.3	.1	.1
10	4.5	4.3					40	49	18	.3	.1	.1
11	4.3	4.3					40	43	14	.3	.1	.1
12	5.6	4.7					31	40	9.9	.4	.1	.1
13	5.1	5.6	6.0			5.0	24	38	8.0	.4	.1	.1
14	4.9	5.6					20	23	6.1	.3	.1	.1
15	5.1	5.6					20	18	4.3	.3	.1	.2
				5.0								
16	9.6	5.6					23	16	4.3	.2	.1	.1
17	9.6	5.6					33	17	6.7	.2	.1	.1
18	8.9	5.9	4.0			8.0	45	14	6.9	.2	.1	.1
19	7.4	7.2			4.0		34	9.9	5.1	.4	.2	0
20	6.9	8.0					29	12	3.4	.3	.2	0
21	6.4	8.3				8.0	32	8.6	3.2	.2	.2	0
22	6.1	8.0				9.0	45	9.9	4.0	.2	.1	0
23	5.9	8.9				20	35	10	5.9	.2	.1	0
24	5.9	11				28	25	8.0	3.0	.3	.1	0
25	5.4	17				40	23	8.6	2.0	.4	.1	.1
			6.0									
26	4.9	14				55	27	8.0	2.5	.3	.1	.1
27	3.2	13				80	27	7.2	2.2	.3	0	.1
28	3.0	11				120	24	5.9	2.2	.3	0	.1
29	3.6	10			---------	166	22	4.5	2.0	.2	0	.1
30	3.2	10			---------	154	21	3.6	1.0	.2	0	.1
31	2.8	---------			---------	119	---------	4.5	---------	.3	0	---------
Total	177.4	205.3	206.0	155.0	122.0	864.0	996	770.9	153.6	20.3	4.0	2.5
Mean	5.72	6.84	6.65	5.0	4.36	28.8	33.2	24.9	5.13	0.65	0.13	0.08
Ac-ft	352	407	409	307	242	1,770	1,980	1,530	305	40	7.9	5.0

Calendar year 1965: Max 403 Min - Mean 30.2 Ac-ft 21,840
Water year 1965-66: Max 166 Min 0 Mean 10.2 Ac-ft 7,350

BEAR RIVER BASIN

10-159. Sulphur Creek below reservoir, near Evanston, Wyo.

Location.--Lat 41°09', long 110°49', in SE¼SE¼ sec.28, T.14 N., R.119 W., on left bank 400 ft downstream from Sulphur Creek Dam, 6.3 miles upstream from mouth, and 10½ miles southeast of Evanston.

Drainage area.--68 sq mi, approximately.

Records available.--March 1958 to September 1966.

Gage.--Water-stage recorder and concrete V-notch control. Altitude of gage is 7,110 ft (from river-profile map).

Extremes.--Maximum discharge during year, 69 cfs July 24 (gage height, 3.70 ft); no flow for many days. 1958-66: Maximum discharge, 343 cfs June 11, 1965 (gage height, 4.96 ft); no flow at times in each year.

Remarks.--Records good. Flow regulated by Sulphur Creek Reservoir (capacity, 7,100 acre-ft) enlargement completed November 1964. Records prior to 1965 do not include flow over spillway of the dam.

Discharge, in cubic feet per second, water year October 1965 to September 1966

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	60					0	32	0	31	11	45	60
2	60					0	16	0	31	10	28	60
3	59					0	12	0	21	11	14	60
4	59					0	7.4	0	.1	9.3	14	59
5	59					0	7.4	0	.1	10	14	59
6	58					0	2.8	3.2	.1	29	14	58
7	57					0	0	16	.1	47	15	44
8	57					0	0	35	.1	51	12	39
9	56					0	0	49	.1	46	9.6	34
10	56					0	0	62	.1	44	10	30
11	55					24	0	74	0	47	10	29
12	55					70	0	69	0	52	10	33
13	55					76	0	64	0	54	10	20
14	54					75	0	56	.6	56	10	20
15	54					75	0	47	1.9	48	10	20
16	53					75	0	40	4.2	51	10	20
17	53					76	0	37	12	61	24	30
18	52					75	0	33	21	60	23	19
19	15					75	0	32	25	59	23	18
20	0					75	0	31	28	62	23	16
21	0					75	0	31	22	64	23	15
22	0					76	0	30	19	70	23	15
23	0					70	0	29	21	85	22	14
24	0					65	0	29	22	88	34	14
25	0					65	0	29	20	75	40	14
26	0					65	0	29	15	61	40	14
27	0					65	0	29	13	48	40	14
28	0					65	0	29	13	38	40	13
29	0				-------	58	0	29	11	46	40	13
30	0				-------	48	0	31	10	45	53	13
31	0	-------			-------	50	-------	31	-------	42	61	-------
Total	1,027	0	0	0	0	1,897	77.4	974.2	339.4	1,468.5	753.6	847
Mean	33.1	0	0	0	0	45.1	2.58	31.4	11.3	47.8	24.3	28.2
Ac-ft	2,040	0	0	0	0	2,770	154	1,930	673	2,910	1,490	1,680

Calendar year 1965 Max 322 Min 0 Mean 33.6 Ac-ft 24,550
Water year 1965-66: Max 88 Min 0 Mean 18.2 Ac-ft 13,180

BEAR RIVER BASIN

10-195. Chapman Canal at State Line, near Evanston, Wyo.

Location.--Lat 41°24', long 111°02', in SE¼ sec.36, T.17 N., R.121 W., on left bank at highway bridge, 6½ miles downstream from headgates and 10 miles northwest of Evanston.

Records available.--April 1942 to September 1966 (prior to October 1944 irrigation seasons only). Monthly discharge only for some periods, published in WSP 1314.

Gage.--Water-stage recorder. Altitude of gage is 6,870 ft (from river-profile map). Prior to Oct. 11, 1946, staff gage and Oct. 11, 1946, to Aug. 2, 1961, water-stage recorder at site 20 ft downstream at same datum.

Average discharge.--22 years (1944-66), 18.7 cfs (13,540 acre-ft per year).

Extremes.--1942-66: Maximum daily discharge, 133 cfs June 18, 1964; no flow at times each year.

Remarks.--Records fair. Canal diverts water from Bear River in NW¼ sec.36, T.16 N., R.121 W. Many diversions above station for irrigation in Wyoming. Flow at station is for storage in Neponset Reservoir, Utah, and irrigation in Salerratus basin, Utah.

Discharge, in cubic feet per second, water year October 1965 to September 1966

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.4	0.6				0	5.3	0	64	5.4	17	0.6
2	.3	.6				0	2.6	0	81	31	9.1	1.3
3	.2	.8				0	1.3	.4	76	22	12	1.1
4	.2	.4				0	.4	1.6	71	9.9	77	1.4
5	.1	.3				0	0	1.6	67	5.1	51	1.8
6	0	.3				0	0	2.9	64	3.6	26	1.6
7	0	.2				0	0	5.8	64	5.6	18	2.4
8	0	.3				0	0	6.0	62	7.8	12	1.4
9	0	.3				0	0	28	59	6.4	6.6	.6
10	0	.3				0	0	46	58	4.3	4.3	.3
11	0	.3				0	0	46	65	3.3	3.3	.1
12	0	.3				0	0	23	74	5.9	1.9	0
13	0	.3				0	0	20	77	7.4	.6	0
14	0	.4				0	0	22	56	7.8	.2	.3
15	0	.4				0	0	44	35	7.6	.1	2.4
16	.2	.4				1	0	42	41	6.6	0	4.3
17	.2	.4				1	0	40	51	6.6	0	4.9
18	.2	.4				2	0	35	64	7.6	0	3.5
19	.2	.4				2	0	32	59	4.5	1.3	3.5
20	.2	.3				3	0	37	51	5.1	.6	3.5
21	.4	.3				5	0	37	47	7.8	1.9	2.5
22	.7	0				6	0	36	42	12	4.7	.8
23	.6	.1				7	0	42	38	19	4.3	.1
24	.6	.1				8	0	42	37	33	1.1	0
25	.6	.3				9	0	43	32	38	.1	.1
26	.6	0				10	0	46	30	39	0	1.6
27	.6	0				11	0	52	26	29	0	.3
28	.8	0				12	0	63	28	37	0	0
29	.8	0			---------	15	0	71	24	20	0	0
30	.6	0			---------	13	0	74	16	16	0	0
31	.8	---------			---------	12	---------	76	---------	24	0	---------
Total	8.6	8.3	0	0	0	117	9.8	1,019.3	1,583	439.3	253.1	40.2
Mean	0.28	0.28	0	0	0	3.8	0.33	32.9	52.8	14.2	8.16	1.34
Ac-ft	17	16	0	0	0	232	19	2,020	3,140	871	502	80

Calendar year 1965: Max 127 Min 0 Mean 19.4 Ac-ft 14,040
Water year 1965-66: Max 84 Min 0 Mean 9.53 Ac-ft 6,900

BEAR RIVER BASIN

10-201. Bear River above reservoir, near Woodruff, Utah

Location.--Lat 41°26'05", long 111°01'00", in NW¼NE¼ sec.28, T.17 N., R.120 W., in Wyoming on right bank 0.8 mile upstream from Woodruff Narrows Dam and 10 miles southeast of Woodruff.

Drainage area.--780 sq mi, approximately.

Records available.--October 1961 to September 1966.

Gage.--Water-stage recorder. Altitude of gage is 6,650 ft (from river-profile map).

Average discharge.--5 years, 226 cfs (163,600 acre-ft per year).

Extremes.--Maximum discharge during year, 1,540 cfs May 11 (gage height, 4.67 ft); minimum, 1.0 cfs Aug. 27.
1961-66: Maximum discharge, 3,340 cfs June 13, 14, 1965 (gage height, 5.68 ft); minimum, 0.1 cfs Aug. 24, 1964.

Remarks.--Records good except those for winter months, which are fair. Diversions for irrigation of about 43,500 acres above station.

Discharge, in cubic feet per second, water year October 1965 to September 1966

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	269	115	120	94	80	65	952	718	400	15	9.2	3.0
2	273	113	120	94	80	65	775	671	335	12	5.3	3.0
3	269	113	120	94	80	65	566	566	306	9.6	12	9.6
4	261	108	120	94	80	65	433	472	261	8.0	11	9.6
5	250	108	120	94	80	65	356	408	242	8.6	10	11
6	246	110	115	90	75	65	551	952	209	5.8	14	11
7	242	108	115	90	75	65	522	1,050	180	5.3	8.6	11
8	234	104	115	90	75	65	347	1,180	180	3.4	7.3	12
9	227	104	115	90	75	65	369	1,280	136	3.0	6.0	9.2
10	224	108	115	90	75	65	405	1,390	128	4.9	5.3	8.0
11	220	104	115	85	75	90	436	1,370	144	5.3	4.9	6.6
12	213	97	94	85	75	90	466	1,080	170	5.3	4.9	6.0
13	209	106	92	85	75	90	347	866	147	5.3	4.5	6.6
14	206	120	90	85	75	90	382	752	118	6.6	4.5	9.0
15	196	120	84	85	75	90	514	614	98	5.8	5.8	11
16	208	185	80	90	75	110	345	576	71	6.0	5.4	13
17	242	128	80	90	75	150	392	538	75	8.0	3.4	14
18	236	136	80	90	75	180	462	496	84	8.9	3.0	15
19	227	136	82	90	75	230	453	436	75	11	8.1	16
20	176	139	80	90	75	250	378	480	68	12	1.0	16
21	156	133	100	90	70	270	364	538	47	14	2.1	14
22	150	104	110	90	70	250	360	568	44	13	1.5	8.6
23	150	125	105	90	70	250	347	573	65	14	1.9	6.0
24	144	176	105	90	70	320	326	496	61	16	3.0	6.0
25	136	164	105	90	70	400	339	466	48	16	2.3	6.0
26	133	156	100	90	70	500	378	480	46	15	1.7	5.3
27	131	140	100	90	70	600	424	500	34	13	1.5	5.6
28	128	130	100	90	70	800	424	462	25	11	2.3	5.3
29	120	115	100	90	----------	928	392	410	17	11	2.7	4.5
30	118	120	100	90	----------	1,020	400	405	13	9.2	1.9	3.6
31	118	----------	100	90	----------	968	----------	443	----------	8.6	1.9	----------
Total	6,117	3,665	3,189	2,835	2,085	8,356	12,460	21,563	5,768	285.2	170.5	267.0
Mean	197	122	103	91.5	74.5	270	415	696	192	9.20	5.50	8.90
Ac-ft	12,130	7,270	6,330	5,620	4,140	16,570	24,710	42,770	11,440	566	338	530

Calendar year 1965: Max 2,950 Min 70 Mean 418 Ac-ft 302,800
Water year 1965-66: Max 1,390 Min 1.2 Mean 277 Ac-ft 199,100

BEAR RIVER BASIN

10-0202. Woodruff Narrows Reservoir near Woodruff, Utah

Location.--Lat 41°30'10", long 111°00'55", in sec.32, T.16 N., R.120 W., in Wyoming, in gate house on dam, 5.6 miles upstream from Wyoming-Utah State line, and 7.7 miles east of Woodruff.

Drainage area.--610 sq mi, approximately.

Records available.--October 1965 to September 1966.

Gage.--Water-stage recorder and mercury manometer. Altitude of the gage is 6,405 ft (from levels by Bureau of Reclamation).

Extremes.--Maximum contents during year 30,850 acre-ft May 9 (gage height, 37.0 ft); minimum 6,480 acre-ft Sept. 11-13.

Remarks.--Reservoir formed by earth-fill, rock faced dam. Storage began Jan. 5, 1962. Usable capacity 28,000 acre-ft which includes 4,260 acre-ft of irrigation holdover, 4,000 acre-ft for winter release for fish propogation, and 1,900 acre-ft of inactive storage. Gage height of spillway is 35.3 ft. Figures given herein represent total contents.

Contents, in acre-feet, at 2400, water year October 1965 to September 1966

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	28,710	22,020	21,660	19,600	19,240	19,840	30,230	28,860	28,120	-	7,160	6,560
2	-	21,740	21,660	19,480	19,240	19,680	30,410	28,860	29,000	-	7,160	6,560
3	-	21,600	21,740	19,480	19,240	19,960	29,740	29,180	28,860	-	7,160	6,560
4	-	21,460	21,740	19,360	19,240	19,960	29,180	29,370	28,710	-	7,160	6,560
5	-	21,320	21,740	19,240	19,240	19,960	28,710	28,930	28,710	-	7,160	6,560
6	28,710	21,180	21,600	19,240	19,360	19,960	28,410	30,230	28,560	7,980	7,160	6,560
7	-	21,030	21,600	19,120	19,360	19,960	28,410	30,630	27,970	7,870	7,160	6,560
8	-	20,890	21,600	19,120	19,360	19,960	28,560	30,630	26,490	7,870	7,160	6,560
9	-	20,750	21,600	19,000	19,480	19,960	28,710	30,850	24,710	7,790	7,090	6,560
10	-	20,700	21,600	19,000	19,480	20,080	28,710	30,630	23,410	7,710	7,090	6,560
11	-	21,030	21,600	18,880	19,480	20,080	28,710	30,410	22,020	7,630	7,090	6,480
12	28,710	21,180	21,460	18,760	19,480	20,180	29,000	30,080	20,890	7,550	7,090	6,480
13	28,560	21,320	21,460	18,760	19,480	20,270	28,860	29,830	19,960	7,470	7,610	6,480
14	-	21,600	21,320	18,760	19,600	20,700	28,710	29,740	19,360	7,390	6,930	6,560
15	27,970	21,880	21,320	18,640	19,600	21,180	28,710	29,930	18,640	7,320	6,930	6,560
16	-	22,020	21,180	18,760	19,600	21,880	28,710	29,740	17,770	7,240	6,930	6,560
17	-	22,170	21,030	18,760	19,600	22,310	28,710	29,740	17,020	7,240	6,930	6,560
18	-	22,170	20,700	18,760	19,600	22,740	-	29,550	16,370	7,240	6,860	6,560
19	-	22,310	20,510	18,760	19,600	23,290	-	29,370	15,570	7,240	6,860	6,560
20	-	22,310	20,360	18,880	19,720	23,760	-	29,370	14,900	7,240	6,860	6,630
21	-	22,310	20,270	18,880	19,720	24,260	29,000	29,370	14,030	7,240	6,780	6,630
22	-	22,170	20,270	18,880	19,720	24,710	28,860	29,370	13,000	7,240	6,780	6,630
23	-	22,310	20,180	18,880	19,720	25,340	28,860	29,550	12,410	7,160	6,700	6,630
24	-	22,310	20,060	18,000	19,720	25,650	28,860	29,550	11,780	7,160	6,700	6,630
25	-	22,310	19,960	19,000	19,840	26,140	28,710	29,370	11,090	7,160	6,700	6,630
26	28,890	22,310	19,960	19,000	19,640	26,840	28,560	29,370	10,530	7,160	6,630	6,630
27	28,640	22,310	19,840	19,000	19,840	28,120	28,860	29,370	9,950	7,160	6,630	6,630
28	28,410	22,170	19,720	19,120	19,840	29,370	29,000	29,370	9,210	7,160	6,630	6,630
29	28,640	22,020	19,720	19,120	--------	29,740	28,860	29,370	8,530	7,160	6,630	6,630
30	28,740	21,880	19,720	19,120	--------	30,230	28,860	29,000	7,960	7,160	6,560	6,630
31	28,310	--------	19,720	19,120	--------	30,630	--------	29,000	--------	7,160	6,560	--------
(†)	31.5	31.2	29.8	29.1	29.7	36.9	35.9	36.0	17.5	16.5	15.7	15.8
(‡)	-6,400	-430	-2,160	-600	+720	+10,790	-1,770	+140	-21,030	-790	-800	+70

Calendar year 1965 ..... ‡ -
Water year 1965-66 ..... ‡ -22,080

† Gage height, in feet, at 2400 of last day of month.
‡ Change in contents, in acre-feet.

BEAR RIVER BASIN

10-203. Bear River below reservoir, near Woodruff, Utah

Location.--Lat 41°30'20", long 111°00'50", in NW¼NW¼ sec.32, T.18 N., R.120 W., in Wyoming, on right bank, 1,100 ft below Woodruff Narrows Dam, 1.8 miles upstream from Salt Creek, 5.4 miles upstream from Wyoming-Utah State line, and 7.7 miles east of Woodruff.

Drainage area.--810 sq mi, approximately.

Records available.--October 1961 to September 1966.

Gage.--Water-stage recorder and concrete control. Altitude of gage is 6,400 ft (from river-profile map). Prior to Sept. 26, 1962, at site 175 ft upstream at same datum.

Average discharge.--5 years, 220 cfs (159,300 acre-ft per year).

Extremes.--Maximum discharge during year, 1,640 cfs May 10 (gage height, 6.76 ft); minimum daily, 1.4 cfs Nov. 11-16.
1961-66: Maximum discharge, 3,000 cfs June 14, 1965 (gage height, 7.88 ft); no flow July 4, 5, 1962.

Remarks.--Records excellent. Flow regulated by Woodruff Narrows Reservoir beginning January 1962 (capacity, 28,000 acre-ft). Diversions for irrigation of about 43,500 acres above station.

Discharge, in cubic feet per second, water year October 1965 to September 1966

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	224	272	126	124	68	69	997	358	406	36	8.0	6.7
2	230	212	126	123	66	69	971	374	374	31	8.0	7.0
3	233	159	126	123	69	69	926	419	328	31	8.0	6.7
4	230	159	126	124	69	69	707	498	290	31	8.0	6.7
5	227	159	126	124	69	69	545	596	259	30	8.0	6.4
6	219	159	126	124	69	69	444	719	230	30	8.0	6.4
7	213	159	126	124	69	69	292	893	539	30	8.0	6.4
8	207	159	126	124	69	69	230	1,070	912	30	8.0	5.6
9	205	159	126	124	69	69	278	1,130	971	30	8.0	5.4
10	199	79	126	124	69	69	314	1,390	945	30	8.0	5.4
11	194	1.4	126	124	69	69	366	1,490	841	29	8.0	5.6
12	192	1.4	126	124	69	69	386	1,150	713	29	7.7	5.4
13	277	1.4	126	124	69	69	366	971	578	29	7.0	5.4
14	297	1.4	126	124	69	69	336	785	485	28	7.0	5.6
15	256	1.4	126	100	69	70	301	608	480	27	7.4	5.6
16	298	1.4	126	60	69	70	284	580	476	20	7.7	5.6
17	358	48	126	60	69	70	304	550	472	17	8.0	5.8
18	354	124	126	60	69	71	351	508	462	15	8.0	5.8
19	354	126	126	60	69	71	386	476	458	15	8.0	5.8
20	354	126	126	60	69	72	382	456	444	12	7.7	6.4
21	354	126	126	60	69	72	351	462	432	9.3	7.7	6.4
22	354	126	126	60	69	73	336	485	427	8.6	7.7	6.4
23	354	126	126	60	69	73	325	512	423	8.3	8.0	6.4
24	325	126	126	60	69	73	311	498	415	8.3	8.3	6.4
25	281	126	126	61	69	73	301	467	411	8.3	8.6	6.4
26	281	126	126	61	69	73	304	458	406	8.0	8.0	7.0
27	278	126	126	63	69	89	328	467	394	7.7	7.4	7.4
28	278	126	124	68	69	526	359	478	390	7.7	6.7	7.7
29	275	126	124	68	----------	647	358	436	382	8.0	6.1	7.7
30	275	126	124	68	----------	893	358	411	254	8.3	6.1	7.7
31	272	----------	124	68	----------	980	----------	411	----------	8.0	6.4	----------
Total	8,448	3,368.4	3,912	2,831	1,930	4,774	12,496	20,102	14,594	620.5	237.5	189.2
Mean	273	112	126	91.3	68.9	154	417	648	486	20.0	7.66	6.31
Ac-ft	16,760	6,680	7,760	5,620	3,830	9,470	24,790	39,870	28,950	1,230	471	375

Calendar year 1965: Max 2,940 Min 1.4 Mean 389 Ac-ft 281,900
Water year 1965-66: Max 1,490 Min 1.4 Mean 201 Ac-ft 145,800

BEAR RIVER BASIN

10-265. Bear River near Randolph, Utah

Location.--Lat 41°48', long 111°08', in SE¼NE¼ sec.7, T.12 N., R.6 E., on left bank 3.5 miles upstream from Twin Creek, 4.6 miles upstream from Utah-Wyoming State line, and 11 miles northeast of Randolph.

Drainage area.--1,640 sq mi, approximately.

Records available.--October 1943 to September 1966. Monthly discharge only for some periods, published in WSP 1314.

Gage.--Water-stage recorder. Altitude of gage is 6,205 ft (from river-profile map).

Average discharge.--23 years, 184 cfs (133,200 acre-ft per year).

Extremes.--Maximum discharge during year, 1,730 cfs Apr. 1 (gage height, 7.81 ft); minimum daily, 11 cfs Sept. 8, 9.
1943-66: Maximum discharge 2,660 cfs May 8, 1952 (gage height, 8.80 ft); minimum, 1.6 cfs Nov. 12, 1961.

Remarks.--Records good except those for winter months, which are fair. Diversions for irrigation of about 94,500 acres above station. Flow regulated by Woodruff Narrows Reservoir beginning January 1962 (capacity 28,000 acre-ft).

Discharge, in cubic feet per second, water year October 1965 to September 1966

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	280	328	190	160	100	105	1,670	443	61	114	40	14
2	280	326	200	165	100	105	1,640	441	67	108	39	14
3	282	324	210	165	100	105	1,530	446	67	104	38	13
4	284	278	180	160	100	105	1,420	462	58	100	38	13
5	284	251	175	165	100	105	1,290	492	70	95	37	13
6	278	244	170	165	100	105	1,100	559	76	100	36	12
7	269	242	170	170	100	105	860	594	71	98	35	12
8	260	239	170	180	100	105	725	662	62	83	35	11
9	257	235	170	180	100	105	574	746	59	81	34	11
10	255	235	170	165	100	105	544	827	94	70	23	12
11	257	234	170	160	100	120	548	845	172	64	21	12
12	260	193	170	160	100	120	566	881	251	60	20	12
13	259	141	170	165	100	120	574	930	237	56	19	12
14	264	124	170	165	100	120	550	836	235	53	19	14
15	328	116	170	165	100	120	520	615	180	49	19	16
16	320	108	170	155	105	130	500	400	148	43	19	14
17	300	104	170	120	105	140	470	257	118	43	20	14
18	346	102	170	100	105	160	450	217	108	39	17	13
19	366	112	170	94	105	190	480	186	120	39	18	13
20	372	158	170	90	105	220	500	130	144	44	18	13
21	376	174	170	88	110	250	500	111	120	47	17	13
22	382	179	170	86	110	300	480	95	117	44	16	12
23	384	205	180	84	110	350	460	86	112	43	16	12
24	376	230	180	80	110	430	450	77	134	42	14	13
25	368	248	180	94	110	540	425	87	146	42	13	13
26	334	257	180	96	105	650	420	86	146	44	13	13
27	330	251	180	98	105	794	420	76	124	47	13	14
28	330	251	180	100	105	962	427	71	116	46	13	18
29	330	225	170	100	---	1,140	448	64	122	43	13	29
30	328	200	160	100	---	1,330	452	65	118	42	13	30
31	328	---	160	100	---	1,540	---	65	---	41	13	---
Total	9,665	6,310	5,415	4,085	2,690	10,776	20,994	11,812	3,659	1,932	699	425
Mean	312	210	175	132	103	348	700	381	122	62.3	22.5	14.2
Ac-ft	19,170	12,520	10,740	8,100	5,730	21,370	41,640	23,430	7,260	3,830	1,390	843

Calendar year 1965: Max 2,370 Min 66 Mean 400 Ac-ft 289,600
Water year 1965-66: Max 1,670 Min 11 Mean 216 Ac-ft 156,000

BEAR RIVER BASIN

10-285. Bear River below Pixley Dam, near Cokeville, Wyo.

Location.--Lat 41°56'20", long 110°59'05", in SE¼SE¼ sec.25, T.23 N., R.120 W., 800 ft downstream from Pixley Dam, 11 miles south of Cokeville, and 17.5 miles downstream from Twin Creek.

Drainage area.--2,040 sq mi, approximately.

Records available.--October 1941 to November 1943 (published as Bear River near Cokeville), October 1952 to September 1956, May 1959 to September 1966 (irrigation seasons only). Monthly discharge only for some periods, published in WSP 1314.

Gage.--Water-stage recorder. Altitude of gage is 6,185 ft (from river-profile map). Oct. 31, 1941, to Nov. 30, 1943, at site 200 ft downstream at different datum.

Extremes.--Maximum discharge during season, 795 cfs May 15 (gage height, 6.40 ft); minimum daily, 4.9 cfs June 8.
1941-43, 1952-56, 1959-66: Maximum daily discharge, 2,300 cfs Mar. 25, 1956; minimum daily recorded, 0.3 cfs Aug. 21, 1961.

Remarks.--Records good. Natural flow of stream affected by diversions for irrigation and return flow from irrigated areas. No diversion between station and Collett Creek Branch of Smiths Fork.

Discharge, in cubic feet per second, May to September 1966

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	316						-	497	14	12	61	26
2	312						-	487	14	10	61	28
3	313						-	485	14	8.3	61	28
4	316						-	489	16	8.1	60	28
5	317						-	512	17	8.1	59	28
6	317						-	533	12	7.9	57	27
7	317						-	572	5.1	289	55	26
8	-						-	623	4.9	208	54	26
9	-						-	675	5.5	161	52	25
10	-						-	737	5.5	142	50	24
11	-						-	754	5.3	128	41	25
12	-						-	737	5.7	114	37	25
13	-						-	760	7.2	104	35	25
14	-						-	783	15	96	35	26
15	-						-	775	26	87	33	29
16	-						-	687	37	81	33	48
17	-						-	410	40	76	33	49
18	-						-	221	28	72	32	33
19	-						-	233	16	51	31	29
20	-						-	145	13	64	30	26
21	-						-	138	31	66	30	26
22	-						-	88	33	66	30	26
23	-						-	62	20	58	30	26
24	-						-	61	8.3	57	29	26
25	-						-	41	6.2	56	28	27
26	-						-	44	6.6	55	26	26
27	-						-	43	7.2	56	25	27
28	-						475	37	13	60	24	27
29	-				--------		483	32	10	64	24	31
30	-				----------		501	22	10	64	24	38
31	-	----------			----------		----------	17	----------	62	24	----------
Total								11,700	447.2	2,383.4	1,204	865
Mean								377	14.9	77.2	38.8	28.8
Ac-ft								23,210	887	4,750	2,390	1,720

Calendar year	: Max	Min	Mean	Ac-ft	
The season	: Max -	Min -	Mean -	Ac-ft	32,960

BEAR RIVER BASIN

10-320. Smiths Fork near Border, Wyo.

Location.--Lat 42°17', long 110°52', in NW¼ sec.33, T.27 N., R.116 W., on left bank 4½ miles upstream from Howland Creek, 6 miles downstream from Hobble Creek, and 12 miles northeast of Border.

Drainage area.--165 sq mi.

Records available.--May 1942 to September 1966.

Gage.--Water-stage recorder. Altitude of gage is 6,650 ft (from topographic map). Prior to Oct. 16, 1945, at site 0.8 mile downstream at different datum.

Average discharge.--24 years, 191 cfs (138,300 acre-ft per year).

Extremes.--Maximum discharge during year, 759 cfs May 10 (gage height, 3.73 ft); minimum, 40 cfs Mar. 4.
1942-66: Maximum discharge, 1,500 cfs June 7, 1957 (gage height, 4.56 ft); minimum recorded, 35 cfs Mar. 21, 1955, result of freezeup.

Remarks.--Records good except those for winter months, which are fair. One diversion for irrigation of about 200 acres above station.

Discharge, in cubic feet per second, water year October 1965 to September 1966

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	126	93	80	72	66	65	117	225	467	216	119	101
2	124	91	80	70	66	65	126	272	445	209	119	109
3	121	91	80	70	66	66	115	314	428	208	124	98
4	119	91	80	72	66	65	107	337	407	199	121	94
5	117	89	80	74	66	60	107	374	378	193	115	93
6	117	91	80	74	66	62	113	415	357	187	113	91
7	117	89	80	74	66	64	105	467	353	181	109	91
8	115	89	80	74	64	65	142	517	349	175	109	89
9	111	89	80	74	64	63	175	522	349	169	107	89
10	109	89	80	74	64	63	190	728	349	169	105	88
11	107	89	80	74	64	60	169	627	345	169	105	89
12	105	89	80	74	64	63	156	527	318	164	105	89
13	105	91	79	73	64	64	153	485	318	156	103	88
14	105	91	76	73	64	64	158	445	310	153	101	96
15	105	94	73	72	64	65	178	407	302	150	99	99
16	107	91	72	67	64	65	216	394	298	147	99	96
17	105	94	72	66	64	62	219	378	295	147	97	93
18	105	91	72	66	64	59	216	361	287	142	99	89
19	107	96	72	66	64	65	190	366	298	140	103	86
20	105	94	72	66	64	64	175	386	287	137	101	85
21	103	91	72	60	64	62	160	415	283	140	99	85
22	101	85	72	62	64	63	160	471	298	140	97	82
23	99	89	72	65	64	60	160	441	285	135	97	82
24	97	94	72	68	64	65	165	415	268	130	94	82
25	97	86	72	66	66	65	170	415	257	128	94	82
26	96	86	72	66	66	66	180	437	246	128	93	80
27	94	86	70	66	66	73	185	458	239	126	94	80
28	94	80	70	66	66	76	190	471	232	124	93	80
29	94	80	74	68	----------	82	193	489	225	119	93	79
30	94	80	76	66	----------	89	202	499	219	119	93	79
31	93	----------	74	66	----------	99	----------	499	----------	119	93	----------
Total	3,294	2,681	2,344	2,142	1,814	2,069	4,892	13,557	9,490	4,817	3,193	2,665
Mean	106	89.4	75.6	69.1	64.8	66.7	163	437	316	155	103	88.8
Ac-ft	6,530	5,320	4,650	4,250	3,600	4,100	9,700	26,890	18,820	9,550	6,330	5,290

Calendar year 1965: Max 1,210 Min 58 Mean 266 Ac-ft 192,300
Water year 1965-66: Max 728 Min 59 Mean 145 Ac-ft 105,000

BEAR RIVER BASIN

10-327. Muddy Creek above Mill Creek, near Cokeville, Wyo.

Location.--Lat 42°11'30", long 110°53'55", in SE¼ sec.31, T.20 N., R.118 W., on right bank, one-third mile upstream from Mill Creek, 1¼ miles upstream from mouth, and 8 miles northeast of Cokeville.

Drainage area.--20.7 sq mi.

Records available.--October 1964 to September 1966.

Gage.--Water-stage recorder, and sharp-crested trapezoidal weir. Altitude of gage is 6,480 ft (from topographic map).

Extremes.--Maximum discharge during year, 20 cfs Apr. 5 (gage height, 2.67 ft); no flow Aug. 16, 25, 1965-66: Maximum discharge, 138 cfs Apr. 30, 1965 (gage height, 2.77 ft); no flow Aug. 18, 25, 1966.

Remarks.--Records fair except those for winter months and those for period of no gage-height record, which are poor. No diversion above station.

Discharge, in cubic feet per second, water year October 1965 to September 1966

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.3	1.1	2.0			1.1	20	14	8.0	4.1	0.38	0.16
2	1.3	1.1	2.0				22	15	7.6	3.8	.42	.20
3	1.3	1.1	2.0				17	16	7.4	2.6	.52	.16
4	1.3	1.1	2.0				14	17	7.4	2.3	.57	.18
5	1.2	1.2	2.0				13	17	7.4	2.2	.52	.14
6	1.3	1.2	2.0				16	17	7.2	2.3	.45	.12
7	1.4	1.2	2.4				20	17	7.0	2.0	.35	.08
8	1.3	1.2	2.6				22	16	6.6	1.9	.35	.09
9	1.4	1.1	2.7				20	16	7.4	1.7	.25	.06
10	1.2	1.1	2.6		1.0		24	24	7.8	1.6	.25	.06
11	1.3	1.1	2.4				18	25	7.4	1.6	.22	.08
12	1.4	1.2	2.1				15	19	6.6	1.8	.20	.12
13	1.3	1.3	2.1			1.0	15	18	6.0	1.7	.18	.10
14	1.3	1.4	2.6				15	17	5.6	1.4	.16	.33
15	1.3	1.6	2.0				17	16	5.3	1.2	.12	.25
16	1.3	1.7		1.0			20	15	5.3	1.0	.08	.22
17	1.3	1.8					19	15	5.0	1.0	.06	.25
18	1.2	1.9			1.0		19	14	4.9	.92	0	.25
19	1.3	2.7			1.1		15	14	4.8	.85	.04	.25
20	1.2	2.7			1.0		13	13	4.6	.81	.14	.30
21	1.2	2.2			1.2		12	12	4.4	.81	.14	.25
22	1.2	1.7			1.1		11	12	4.8	.92	.12	.26
23	1.2	1.5	1.8		1.2		10	12	5.0	.92	.12	.25
24	1.2	2.4			1.2	1.1	11	11	4.4	.85	.14	.25
25	1.2	2.3			1.1	1.0	13	11	4.0	.77	0	.30
26	1.2	1.8			1.1	1.1	15	10	3.7	.73	.02	.20
27	1.2	1.7			1.2	1.1	15	9.5	3.4	.69	.02	.22
28	1.2	2.0			1.1	1.1	14	9.5	3.2	.65	.04	.25
29	1.2	2.0			-------	1.0	14	9.1	3.2	.49	.06	.25
30	1.1	2.0			-------	5.3	13	6.5	3.0	.49	.06	.25
31	1.1	-------			-------	11	-------	6.1	-------	.45	.06	-------
Total	38.8	48.7	60.3	31.0	29.2	48.4	508	448.8	169.6	42.85	6.08	5.79
Mean	1.25	1.62	1.95	1.00	1.04	1.60	16.9	14.5	5.65	1.38	0.196	0.193
Ac-ft	77	97	120	61	58	92	1,000	890	336	85	12	11

Calendar year 1965: Max 101 Min - Mean 10.4 Ac-ft 7,540
Water year 1965-66: Max 28 Min 0 Mean 3.93 Ac-ft 2,840

Note.--No gage-height record Dec. 18 to Feb. 17.

BEAR RIVER BASIN
10-328. Mill Creek near Cokeville, Wyoming

Location.--Lat 42°11'30", long 110°54'10", on right bank, one-third mile upstream from mouth and 8 miles northeast of Cokeville.

Drainage area.--8.07 sq mi.

Records available.--October 1965 to September 1966.

Gage.--Water-stage recorder and concrete control. Altitude of gage is 6,480 ft (from topographic map).

Extremes.--Maximum discharge during year, 21 cfs May 10 (gage height, 6.62 ft); minimum not determined.

Remarks.--Records good except those for winter months and those for periods of no gage-height record, which are poor. No diversion above station.

Discharge, in cubic feet per second, water year October 1965 to September 1966

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1						0.4	4.0	8.6	4.8	1.4	0.7	0.8
2						.4	4.8	8.6	4.8	1.1	.8	1.0
3						.4	4.8	7.8	4.8	.9	1.0	1.0
4			0.7			.4	5.0	9.8	4.8	.8	1.0	1.2
5						.4	5.8	11	4.8	.8	1.0	1.1
6							4.8	12	4.8	.8	.9	1.2
7							5.8	14	4.8	.8	1.0	1.4
8		0.8	.7				7.8	14	4.8	.9	.9	1.4
9			.7		0.8		7.8	14	4.8	1.0	.9	1.5
10			.8				9.1	15	4.8	1.0	.9	1.7
11			.8				7.8	16	4.8	1.1	.8	1.8
12			.8				7.8	16	4.8	1.2	.8	1.8
13			.8			.8	7.8	14	5.8	1.2	.8	1.8
14			.8				8.4	14	5.8	1.2	.8	1.8
15							9.0	12	5.8	1.4	.7	1.8
16	0.7			0.7			9.6	12	5.8	1.4	.7	1.8
17							9.6	11	5.4	1.5	.6	1.8
18					.7		9.6	10	5.4	1.4	.6	.9
19					.7		9.4	9.9	5.4	1.3	.6	.7
20					.7		8.7	8.8	5.1	1.2	.6	.6
21					.7	.7	7.8	9.0	5.1	1.2	.6	.5
22					.7	.7	7.8	8.7	5.4	1.1	.7	.5
23		.7	.7		.7	.7	7.8	8.4	5.1	1.0	.6	.4
24					.7	.7	7.8	7.8	5.0	.9	.6	.5
25					.7	.7	7.8	7.1	4.7	.9	.4	.5
26					.6	.7	8.1	6.3	4.4	.8	.6	.6
27					.6	.9	8.1	5.8	4.0	.8	.6	.5
28					.6	1.2	7.8	5.5	3.6	.7	.5	.5
29					-------	1.7	6.9	5.2	3.6	.8	.5	.5
30					-------	2.0	6.6	5.0	3.6	.7	.4	.6
31					-------	3.4	-------	5.0	-------	.7	.4	-------
Total	21.7	18.6	22.3	21.7	17.3	32.9	216.8	316.6	134.9	31.9	21.3	33.1
Mean	0.7	0.65	0.72	0.7	0.62	0.74	7.22	10.0	5.47	1.03	0.62	0.97
Ac-ft	43	36	44	43	34	46	429	628	267	63	42	66

Calendar year 1965: Max - Min - Mean - Ac-ft -
Water year 1965-66: Max 16 Min - Mean 2.30 Ac-ft 1,660

Note.--No gage-height record Oct. 1 to Dec. 7, Jan. 16 to Feb. 18.

BEAR RIVER BASIN

10-395. Bear River at Border, Wyo.

Location.--Lat 42°11', long 111°03', in NE¼NE¼ sec.15, T.14 S., R.46 E., in Idaho, on left bank a quarter of a mile west of Wyoming-Idaho State line, half a mile west of Border, and 2.1 miles upstream from Thomas Fork.

Drainage area.--2,490 sq mi, approximately.

Records available.--October 1937 to September 1966.

Gage.--Water-stage recorder. Datum of gage is 6,051.63 ft above mean sea level, unadjusted.

Average discharge.--29 years, 395 cfs (286,000 acre-ft per year).

Extremes.--Maximum discharge during year not determined, occurred during period of ice effect; maximum gage height, 9.17 ft Mar. 30, backwater from ice; minimum discharge, 88 cfs Aug. 21, 22, 30.
1937-66: Maximum discharge, 3,680 cfs May 11, 1952 (gage height, 8.89 ft); minimum daily, 30 cfs Aug. 18-22, 1940.

Remarks.--Records good except those for winter months, which are fair. Diversions for irrigation of about 122,000 acres above station.

Discharge, in cubic feet per second, water year October 1965 to September 1966

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	458	470	350	290	230	225	2,280	758	384	205	121	101
2	449	467	360	295	230	220	2,330	765	338	208	119	111
3	444	461	350	300	230	220	2,390	790	290	197	122	113
4	441	459	330	305	230	220	2,460	836	270	190	124	101
5	449	433	330	310	230	220	2,340	892	251	186	127	95
6	449	395	340	310	230	220	2,200	952	238	182	124	99
7	447	382	350	310	225	220	2,100	1,020	236	180	121	113
8	438	377	320	310	225	220	2,010	1,110	246	330	117	111
9	430	374	310	310	220	225	1,830	1,210	246	312	121	95
10	411	369	320	310	220	230	1,580	1,340	246	283	119	95
11	403	369	330	310	220	235	1,370	1,600	248	244	116	90
12	400	369	330	310	220	250	1,240	1,560	230	230	108	88
13	397	360	330	310	220	270	1,160	1,470	226	220	101	93
14	397	321	330	310	220	310	1,130	1,450	232	216	98	101
15	390	301	330	300	220	400	1,080	1,420	274	195	96	119
16	430	290	340	280	230	520	1,070	1,340	303	186	96	127
17	456	283	340	240	230	640	1,040	1,160	322	180	95	127
18	444	279	330	230	230	640	1,020	828	319	169	93	134
19	455	286	330	230	230	640	980	686	292	162	95	119
20	490	317	330	230	230	620	944	659	263	148	95	111
21	499	322	320	220	230	640	932	587	244	186	92	113
22	508	343	320	220	225	640	928	612	292	184	92	113
23	514	345	320	220	220	660	904	649	292	166	95	101
24	517	400	320	220	220	680	860	583	272	151	93	101
25	520	430	320	220	230	650	816	545	228	144	92	104
26	514	433	310	220	230	700	787	481	205	141	93	104
27	493	422	310	220	230	750	772	433	195	134	92	108
28	472	320	300	220	230	1,000	740	382	190	129	93	105
29	472	350	290	220	----------	1,700	725	369	214	124	93	105
30	470	330	290	220	----------	2,500	740	382	214	125	90	110
31	470	----------	290	220	----------	2,400	----------	374	----------	124	92	----------
Total	14,129	11,086	10,070	8,220	6,335	19,045	40,756	27,243	7,805	5,801	3,225	3,206
Mean	456	369	325	265	226	614	1,359	879	260	187	104	107
Ac-ft	28,020	21,990	19,970	16,300	12,570	37,780	80,840	54,040	15,480	11,510	6,400	6,360

Calendar year 1965: Max 3,240 Min 170 Mean 740 Ac-ft 536,800
Water year 1965-66: Max 2,500 Min 88 Mean 430 Ac-ft 311,200

BEAR RIVER BASIN

10-460. Rainbow inlet canal near Dingle, Idaho

Location.--Lat 42°13'00", long 111°17'30", in SE¼ sec.3, T.14 S., R.44 E., on left bank 1½ miles west of Dingle and 1-3/4 miles downstream from headworks at Stewart Dam.

Records available.--January 1922 to September 1966. Monthly discharge only prior to October 1945, published in WSP 1314.

Gage.--Water-stage recorder. Altitude of gage is 5,950 ft (from topographic map). Prior to Oct. 1, 1965, at site 300 ft downstream at different datum; Oct. 1, 1965 to Oct. 27, 1966, at site half a mile downstream at different datum.

Average discharge.--44 years, 309 cfs (223,000 acre-ft per year).

Extremes.--Maximum discharge during year, 2,150 cfs Apr. 9 (gage height, 7.89 ft); minimum, 7.0 cfs July 8.
1922-66: Maximum discharge, 4,190 cfs May 7 1952 (gage height, 8.82 ft); minimum daily, 1 cfs on several days in 1931, 1934, 1940, 1946.

Remarks.--Records good except those for winter periods, which are fair. Discharge measurements generally made three to six times a week. Canal diverts from Bear River at Stewart Dam in NE¼ sec.34, T.13 S., R.44 E., for storage in Bear Lake. At times flow in canal is augmented by surplus water from Black Otter Slough entering at the station and by seepage and wastage from irrigation lands on both sides of canal.

Cooperation.--Records collected by Utah Power & Light Co., under general supervision of Geological Survey, in connection with a Federal Power Commission project.

Discharge, in cubic feet per second, water year October 1965 to September 1966

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	525	490	280	280	215	225	2,400	855	80	21	47	51
2	528	487	265	275	220	215	2,650	853	89	22	33	44
3	518	487	275	270	220	210	2,550	834	91	24	28	46
4	500	484	350	275	220	220	2,310	900	81	25	37	48
5	490	478	347	280	215	230	2,330	932	87	27	51	50
6	500	450	344	290	210	215	2,310	964	80	23	42	46
7	508	417	322	295	210	210	2,270	988	44	22	44	43
8	500	405	299	300	215	215	2,210	1,040	48	21	45	37
9	484	396	325	305	210	220	2,140	1,100	45	22	50	33
10	481	390	347	310	215	215	1,980	1,250	24	23	54	34
11	468	387	347	310	200	330	1,740	1,300	24	25	105	23
12	456	384	350	310	205	240	1,520	1,460	25	75	121	24
13	450	387	350	315	210	235	1,400	1,480	28	76	126	24
14	447	381	364	320	215	262	1,290	1,400	24	73	92	30
15	435	353	380	315	220	296	1,260	1,630	22	68	76	37
16	432	331	380	315	220	322	1,190	1,280	24	61	65	37
17	462	339	355	305	220	408	1,180	1,220	27	61	60	47
18	454	314	340	280	225	396	1,170	988	31	55	57	51
19	465	322	320	225	225	461	1,120	675	35	70	62	48
20	465	339	250	230	225	523	1,060	542	40	66	62	53
21	494	347	250	230	225	569	1,040	503	32	66	57	47
22	500	353	255	220	225	625	1,020	402	25	62	51	50
23	519	370	255	210	220	634	992	350	25	60	53	46
24	523	393	250	200	225	611	988	376	26	57	45	35
25	536	456	260	200	225	597	940	344	25	72	48	33
26	536	468	255	195	225	611	904	347	25	67	36	50
27	536	468	260	195	225	636	908	233	24	66	32	48
28	523	465	270	190	225	726	880	182	24	60	30	46
29	500	260	275	195	----------	912	853	159	23	47	40	39
30	494	260	267	215	----------	1,130	818	145	22	34	34	34
31	490	----------	270	210	----------	1,370	----------	121	----------	30	33	----------
Total	15,244	11,896	9,417	8,045	6,110	13,959	45,433	24,583	1,105	1,569	1,735	1,250
Mean	492	397	304	260	216	450	1,514	793	36.8	50.6	56.0	41.7
Ac-ft	30,240	23,600	18,680	15,960	12,120	27,690	90,120	48,760	2,190	3,110	3,440	2,480

Calendar year 1965: Max 2,770 Min 175 Mean 766 Ac-ft 554,600
Water year 1965-66: Max 2,850 Min 20 Mean 385 Ac-ft 278,400

BEAR RIVER BASIN

10-465. Bear River below Stewart Dam, near Montpelier, Idaho

Location.--Lat 42°15'30", long 111°17'30", in NE¼ sec.34, T.13 S., R.44 E., on right bank 300 ft downstream from Stewart Dam and 4½ miles south of Montpelier.

Drainage area.--2,880 sq mi, approximately.

Records available.--January 1922 to September 1966. Monthly discharge only January 1922 to September 1945, published in WSP 1314.

Gage.--Water-stage recorder. Altitude of gage is 5,950 ft (from topographic map).

Average discharge.--44 years, 56.9 cfs (40,470 acre-ft per year).

Extremes.--Maximum discharge during year, 29 cfs May 31 (gage height, 1.45 ft); minimum, 1.6 cfs May 26.
1922-66: Maximum daily discharge, 3,080 cfs June 8, 1923; no flow July 15, 1926.

Remarks.--Records good. Discharge measurements generally made once a week. Water diverted at Stewart Dam through Rainbow Inlet canal (see station 10-0480) for storage and regulation in Bear Lake. Many diversions above station for irrigation.

Cooperation.--Records collected by Utah Power & Light Co., under general supervision of Geological Survey, in connection with a Federal Power Commission project.

Discharge, in cubic feet per second, water year October 1965 to September 1966

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8.2	8.0	6.8	6.2	6.2	5.0	15	6.5	14	5.8	4.5	4.8
2	8.0	8.0	6.8	6.2	6.2	5.2	14	6.8	14	4.6	4.8	4.6
3	8.0	8.4	7.1	6.5	6.2	5.3	11	6.8	14	4.4	5.0	4.4
4	8.2	8.0	7.1	6.8	6.2	5.3	11	7.4	13	4.6	5.0	4.4
5	8.2	8.4	7.4	6.2	6.2	5.3	10	7.7	12	5.2	5.3	4.8
6	8.2	7.7	7.4	6.2	5.6	5.3	10	7.7	11	5.3	5.6	4.8
7	8.5	7.7	7.4	6.2	5.6	5.3	8.8	8.0	7.7	4.8	6.2	4.4
8	7.4	7.4	7.4	6.2	6.2	5.3	8.8	8.4	5.6	5.2	5.3	4.6
9	7.4	7.1	7.4	6.5	6.8	5.3	8.0	8.8	2.6	5.0	6.2	4.8
10	7.4	7.1	7.7	6.2	6.8	5.3	7.7	10	3.0	5.6	7.1	5.3
11	7.4	7.1	7.7	6.2	6.8	5.6	8.8	11	5.4	6.0	7.7	5.0
12	7.7	7.4	7.4	6.2	6.8	5.6	5.9	12	5.6	3.1	8.4	4.8
13	8.0	8.4	7.7	6.2	6.8	5.9	8.4	12	5.6	10	8.4	4.6
14	8.0	8.4	8.0	6.2	6.5	6.5	5.3	12	3.4	10	8.8	4.6
15	8.4	7.7	7.7	6.2	6.8	7.1	6.2	12	5.4	9.6	8.4	4.6
16	8.0	7.4	7.7	6.2	6.8	7.1	6.2	11	4.2	9.2	8.0	5.0
17	8.4	7.7	7.7	6.2	6.8	7.1	6.8	11	5.3	8.0	7.4	5.6
18	8.4	7.4	7.1	6.5	6.2	7.4	6.2	11	6.8	7.1	7.4	6.2
19	8.0	7.7	6.2	6.5	6.2	7.7	5.9	11	6.8	6.2	7.1	6.5
20	8.0	7.7	6.8	5.9	5.6	7.4	5.9	12	6.8	5.3	6.8	6.5
21	8.4	8.0	6.8	5.3	5.9	6.8	5.6	12	5.9	5.0	6.5	6.6
22	8.0	8.4	6.2	5.3	5.6	6.2	5.6	10	6.3	5.0	6.5	6.6
23	8.0	8.4	6.8	5.3	5.3	5.9	6.2	11	6.3	5.0	7.1	6.9
24	8.4	9.2	6.2	5.6	4.8	5.6	6.8	12	6.2	5.0	7.4	6.5
25	8.4	10	5.9	5.6	4.8	6.2	6.2	12	6.2	5.0	7.1	6.9
26	8.8	10	5.6	5.6	5.0	5.9	6.2	9.8	6.3	5.0	6.5	6.5
27	8.4	10	5.9	5.9	5.0	7.1	6.2	12	6.8	5.6	6.2	6.5
28	8.8	9.2	5.6	5.9	5.0	6.8	6.8	13	4.4	5.9	6.2	6.5
29	8.0	7.4	5.3	5.9	-------	6.8	6.5	14	3.8	5.3	6.2	6.5
30	8.0	6.5	5.6	6.2	-------	6.4	6.8	14	3.9	4.6	6.0	6.5
31	7.7	-------	5.9	-------	-------	11	-------	14	-------	4.8	4.8	-------
Total	235.3	241.8	211.1	184.7	168.7	197.4	230.8	326.4	158.1	180.8	202.2	168.0
Mean	7.59	8.06	6.81	5.96	5.92	6.37	7.67	10.5	5.40	5.83	6.52	5.43
Ac-ft	467	480	419	366	329	392	457	647	314	358	401	333

Calendar year 1965: Max 24 Min 2.8 Mean 6.16 Ac-ft 4,460
Water year 1965-66: Max 18 Min 2.5 Mean 6.96 Ac-ft 5,040

BEAR RIVER BASIN

10-555. Bear Lake at Lifton, near St. Charles, Idaho

Location.--Lat 42°07'30", long 111°19'20", in NE¼ sec.16, T.15 S., R.44 E., in Lifton pumping plant of Utah Power & Light Company, 5½ miles east of St. Charles.

Drainage area.--430 sq mi, approximately (does not include Mud Lake drainage).

Records available.--October 1903 to June 1908 (gage heights only), January 1911 to September 1968. Monthly contents since January 1921 to September 1948 published in WSP 1314. Published as Bear Lake at Fish Haven 1903-08.

Gage.--Water-stage recorder. Datum of gage is 5,900 ft above mean sea level, unadjusted (levels by Utah Power & Light Company). October 1903 to June 1908, staff gage at different site and datum.

Extremes.--Maximum contents during year, 1,295,000 acre-ft May 26 to June 8 (gage height, 21.98 ft); minimum, 1,018,000 acre-ft Sept. 30 (gage height, 18.22 ft).
1921-68: Maximum contents, 1,428,000 acre-ft June 10, 1952 (gage height, 23.68 ft); no usable contents Nov. 9-19, 1938 (gage height, 2.00 ft, lower limit of pumps).

Remarks.--Outflow regulated by gates and pumps at Bear Lake and by gates in dike at north end of Mud Lake. Inflow to lake augmented by water diverted from Bear River through Rainbow Inlet canal and Dingle Inlet canal, which empty into Mud Lake (see station 10-0480). Water from Mud Lake reaches Bear Lake by a siphon at pumping plant or by gates in causeway at south end of Mud Lake. Capacity, 1,421,000 acre-ft between gage heights 2.00 (lower limit of pumps) and 23.68 ft (present feasible upper limit of storage with existing facilities). Storage water used for irrigation and power development. Figures given herein represent usable contents.

Cooperation.--Gage heights furnished by Utah Power & Light Company, under general supervision of Geological Survey, in connection with a Federal Power Commission project. Contents computed by Geological Survey from capacity table based on data furnished by Utah Power and Light Company.

Contents, in thousands of acre-feet, at 0700, water years 1965 to September 1968

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,270	1,266	1,252	1,205	1,171	1,145	1,132	1,210	1,295	1,249	1,154	1,087
2	1,270	1,265	1,251	1,206	1,170	1,144	1,135	1,222	1,289	1,246	1,157	1,086
3	1,271	1,265	1,250	1,205	1,168	1,144	1,142	1,243	1,283	1,243	1,154	1,085
4	1,270	1,265	1,248	1,204	1,167	1,143	1,142	1,245	1,283	1,240	1,152	1,083
5	1,269	1,265	1,246	1,203	1,166	1,143	1,152	1,247	1,299	1,236	1,149	1,082
6	1,268	1,265	1,245	1,203	1,165	1,142	1,150	1,250	1,290	1,236	1,146	1,080
7	1,267	1,265	1,243	1,202	1,164	1,141	1,155	1,255	1,298	1,231	1,145	1,079
8	1,267	1,264	1,242	1,201	1,162	1,140	1,158	1,255	1,296	1,225	1,140	1,078
9	1,266	1,264	1,240	1,200	1,161	1,140	1,173	1,258	1,297	1,225	1,137	1,077
10	1,265	1,264	1,240	1,198	1,160	1,140	1,179	1,262	1,297	1,222	1,134	1,076
11	1,265	1,264	1,240	1,197	1,159	1,140	1,184	1,266	1,296	1,220	1,130	1,075
12	1,264	1,263	1,240	1,196	1,159	1,140	1,189	1,271	1,295	1,217	1,127	1,074
13	1,263	1,263	1,240	1,196	1,157	1,140	1,194	1,276	1,293	1,214	1,125	1,072
14	1,261	1,262	1,239	1,196	1,157	1,140	1,198	1,280	1,291	1,211	1,120	1,071
15	1,260	1,262	1,238	1,194	1,156	1,140	1,201	1,283	1,289	1,208	1,118	1,071
16	1,278	1,260	1,236	1,195	1,154	1,140	1,205	1,287	1,287	1,206	1,115	1,071
17	1,276	1,259	1,234	1,192	1,154	1,140	1,202	1,290	1,285	1,202	1,109	1,070
18	1,275	1,258	1,232	1,191	1,153	1,140	1,203	1,291	1,282	1,200	1,108	1,069
19	1,273	1,258	1,229	1,189	1,152	1,140	1,210	1,292	1,280	1,197	1,102	1,069
20	1,273	1,256	1,228	1,188	1,151	1,141	1,214	1,293	1,277	1,194	1,099	1,068
21	1,272	1,257	1,224	1,187	1,150	1,141	1,217	1,294	1,274	1,191	1,096	1,049
22	1,271	1,257	1,222	1,186	1,150	1,141	1,220	1,295	1,272	1,188	1,092	1,048
23	1,271	1,256	1,220	1,184	1,149	1,140	1,222	1,296	1,270	1,185	1,090	1,049
24	1,271	1,256	1,217	1,182	1,148	1,140	1,226	1,296	1,267	1,183	1,087	1,049
25	1,270	1,257	1,216	1,181	1,148	1,139	1,229	1,299	1,264	1,180	1,084	1,048
26	1,270	1,257	1,214	1,180	1,147	1,138	1,231	1,298	1,262	1,178	1,081	1,048
27	1,269	1,256	1,212	1,178	1,145	1,138	1,234	1,295	1,259	1,175	1,078	1,047
28	1,268	1,255	1,210	1,177	1,145	1,136	1,235	1,299	1,257	1,173	1,076	1,047
29	1,268	1,254	1,209	1,176	----------	1,134	1,237	1,298	1,254	1,168	1,073	1,047
30	1,267	1,253	1,208	1,174	----------	1,132	1,239	1,296	1,251	1,166	1,071	1,046
31	1,268	----------	1,207	1,173	----------	1,131	----------	1,299	----------	1,162	1,069	----------
(*)	21.45	21.26	20.80	20.13	18.72	18.62	21.06	21.96	21.25	19.96	18.68	18.29
(#)	-27.0	-13.0	-48.0	-54.0	-28.0	-11.0	+108	+66.0	-48.0	-83.0	-83.0	-23.0

Calendar year 1965..... # + 359.0
Water year 1965-66..... # - 247.0

* Gage height, in feet, at end of month.
# Change in contents, in thousands of acre-feet.

BEAR RIVER BASIN

10-595. Bear Lake outlet canal near Paris, Idaho

Location.--Lat 42°13'00", long 111°20'30", in SW¼ sec.8, T.14 S., R.44 E., on right bank 2,000 ft downstream from headgates (at dike) and 3 miles southeast of Paris.

Records Available.--January 1922 to September 1966. Monthly discharge only January 1922 to September 1945, published in WSP 1314.

Gage.--Water-stage recorder. Altitude of gage is 5,920 ft (from topographic map).

Average discharge.--44 years, 337 cfs (244,000 acre-ft per year).

Extremes.--Maximum discharge during year, 1,430 cfs July 23 (gage height, 10.76 ft); minimum daily, 3.0 cfs many days in April to May.
1922-66: Maximum daily discharge, 1,870 cfs Aug. 8, 1924; minimum daily, 1 cfs for many days in 1937, 1954, 1959, 1961, 1964.

Remarks.--Records good except those for period of no gage-height record, which are fair. Discharge measurements generally made six times a week during periods of release from Bear Lake.

Cooperation.--Records collected by Utah Power & Light Co., under general supervision of Geological Survey, in connection with a Federal Power Commission project.

Discharge, in cubic feet per second, water year October 1965 to September 1966

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	302	849	1,020	1,020	1,040	765	3.0	3.0	1,100	1,370	1,010	786
2	308	880	1,030	1,110	1,040	668	3.0	3.0	1,140	1,330	1,020	473
3	312	706	1,060	1,090	1,030	613	3.0	3.0	1,300	1,150	1,010	292
4	315	532	1,060	984	1,010	686	3.0	3.0	1,296	1,020	1,050	424
5	618	794	1,070	1,050	1,030	672	3.0	3.0	1,190	1,230	1,030	422
6	756	800	1,040	1,020	1,020	721	3.0	3.0	1,220	1,190	897	422
7	798	637	1,010	1,020	1,020	704	3.0	3.0	1,290	1,220	1,020	296
8	795	826	1,010	1,020	893	675	3.0	3.0	1,300	1,360	1,010	178
9	736	1,150	984	967	896	615	3.0	3.0	1,100	1,360	1,050	176
10	661	1,080	951	970	871	563	3.0	3.0	1,020	1,330	1,010	301
11	552	1,010	934	934	883	435	3.0	3.0	941	1,330	1,020	434
12	534	937	951	896	860	314	3.0	3.0	871	1,370	1,030	418
13	980	852	934	883	957	338	3.0	3.0	859	1,350	1,020	415
14	874	819	884	853	964	341	3.0	3.0	896	1,330	1,070	328
15	984	908	908	883	934	397	3.0	3.0	921	1,370	1,020	212
16	937	897	871	864	957	443	3.0	3.0	916	1,400	1,030	128
17	884	893	668	883	1,000	485	3.0	3.0	841	1,370	1,040	14
18	857	877	1,100	886	893	500	3.0	3.0	1,080	1,330	997	14
19	884	1,010	1,130	885	867	545	3.0	3.0	1,030	1,330	1,020	14
20	908	1,080	1,200	924	970	548	3.0	3.0	1,020	1,370	1,020	13
21	885	1,030	1,130	964	957	550	3.0	3.0	1,050	1,350	1,010	13
22	854	1,020	1,170	970	856	543	3.0	3.0	1,100	1,380	1,010	12
23	831	1,020	1,180	1,000	874	579	3.0	3.0	1,110	1,370	1,010	12
24	808	1,080	1,140	1,020	796	557	3.0	3.0	1,080	1,320	977	11
25	851	994	1,080	1,020	828	534	3.0	3.0	1,090	1,080	1,010	11
26	832	980	1,020	1,000	816	545	3.0	3.0	1,060	992	1,010	10
27	834	1,000	1,070	1,000	810	550	3.0	304	1,080	1,000	1,010	10
28	834	990	1,140	1,000	769	545	3.0	413	1,010	1,010	1,000	9.7
29	834	974	1,140	1,020	----------	504	3.0	401	1,090	1,010	951	9.4
30	831	987	1,070	1,050	----------	309	3.0	378	1,220	990	883	9.1
31	831	----------	1,050	1,050	----------	26	----------	704	----------	1,000	885	----------
Total	27,108	27,011	32,832	30,358	26,116	16,194	90.0	2,179.0	32,187	38,413	31,188	5,865.2
Mean	875	901	1,041	979	933	522	3.00	70.3	1,073	1,239	1,006	196
Ac-ft	53,760	53,610	64,030	59,980	51,800	32,120	179	4,320	63,840	76,190	61,860	11,630

Calendar year 1965: Max 1,370 Min 3.0 Mean 484 Ac-ft 327,800
Water year 1965-66: Max 1,400 Min 3.0 Mean 737 Ac-ft 533,400

BEAR RIVER BASIN

10-905. Bear River near Preston, Idaho

Location.--Lat 42°10', long 111°51' in NW¼ sec.36, T.14 S., R.39 E., on left bank 600 ft downstream from headgates of West Cache Canal, 8 miles downstream from Mink Creek, 5 miles north of Preston, and 5½ miles upstream from Battle Creek.

Drainage area.--4,800 sq mi, approximately.

Records available.--October 1889 to December 1916, January to September 1917 (gage heights only), January 1944 to September 1966. Prior to 1903, published as "at Battlecreek." Monthly discharge only for some periods, published in WSP 1314.

Gage.--Digital water-stage recorder. Altitude of gage is 4,540 ft (from topographic map). October 1889 to September 1917 staff or wire-weight gages at several sites within 5 miles downstream at different datums. January 1944 to September 1965 graphic water-stage recorder at same site and datum.

Average discharge.--23 years (1943-66), 794 cfs (574,800 acre-ft per year).

Extremes.--Maximum discharge during year, 2,900 cfs Dec. 27 (gage height, 4.53 ft); minimum, 3.0 cfs May 27, 28 (gage height, 0.26 ft); minimum daily, 11 cfs May 29.

1889-1917: Maximum discharge, about 6,500 cfs June 9, 10, 1907, estimated on basis of records for station near Collinston, Utah; maximum gage height observed, 9.04 ft Jan. 17, 18, 1917 (backwater from ice), site and datum then in use; minimum discharge not determined.

1943-66: Maximum discharge, 4,420 cfs Apr. 17, 1950 (gage height, 5.61 ft); minimum, 0.6 cfs June 14, 1949; minimum daily, 9.5 cfs July 6, 1957.

Remarks.--Records good. Station is below all irrigation diversions from Bear River in Idaho except Cub River pumps in SE¼ sec.20, T.16 S., R.39 E. Natural flow of stream affected by storage reservoirs, power developments, diversions for irrigation, and return flow from irrigated areas.

Discharge, in cubic feet per second, water year October 1965 to September 1966

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,440	1,520	1,420	1,630	1,440	1,520	1,410	635	629	900	737	492
2	1,600	1,380	1,690	1,400	1,570	1,350	1,390	749	955	870	581	656
3	1,300	1,360	1,630	1,570	1,570	1,080	1,180	700	633	812	762	469
4	1,420	1,390	1,670	1,600	1,400	1,050	1,070	655	749	836	686	295
5	1,290	1,320	1,600	1,440	1,500	1,040	1,510	668	863	1,160	674	396
6	1,330	1,370	1,660	1,660	1,620	1,330	1,220	749	848	1,350	809	218
7	1,490	392	1,400	1,570	1,460	1,140	1,320	728	878	1,200	457	444
8	1,360	1,100	1,600	1,510	1,520	1,190	1,570	700	931	854	928	472
9	1,570	1,650	1,660	1,410	1,450	1,290	1,700	440	863	1,110	524	494
10	1,560	1,680	1,500	1,550	1,240	1,360	1,700	995	635	625	775	193
11	1,420	1,590	1,730	1,480	1,620	1,150	1,830	756	798	708	878	28
12	1,450	1,650	1,330	1,650	1,540	1,640	1,620	1,160	521	851	818	392
13	1,470	1,650	1,780	1,480	1,450	1,190	1,610	1,100	593	1,110	752	241
14	1,450	1,710	1,650	1,460	1,380	1,390	908	971	661	947	875	192
15	1,460	1,480	1,660	1,600	1,460	1,300	1,220	1,150	599	1,100	713	486
16	1,470	1,700	1,400	1,460	1,860	1,370	812	674	693	1,150	889	482
17	1,450	1,570	1,560	1,470	1,500	1,380	480	840	987	1,000	933	366
18	1,490	1,770	1,620	1,460	1,530	1,220	848	617	304	1,260	755	106
19	1,490	1,910	1,450	1,550	1,560	1,350	1,100	356	805	1,090	850	98
20	1,280	1,720	1,650	1,400	1,490	1,250	551	545	923	879	780	162
21	1,430	1,450	1,300	1,620	1,370	1,250	700	183	995	1,030	917	378
22	1,510	1,880	1,740	1,220	1,540	1,140	700	611	674	938	867	513
23	1,400	1,480	1,530	1,560	1,560	1,270	728	100	749	813	914	93
24	1,500	1,750	1,590	1,520	1,420	1,250	642	195	848	702	772	128
25	1,430	1,730	1,620	1,420	1,590	1,200	987	142	581	511	876	83
26	1,480	1,570	1,190	1,380	1,580	1,250	756	168	840	696	702	179
27	1,280	1,760	1,850	1,630	1,600	1,170	681	100	623	652	771	80
28	1,560	1,570	1,486	1,340	1,570	1,530	819	107	721	917	750	61
29	1,570	1,640	1,570	1,470	----------	1,400	855	11	777	681	505	330
30	1,460	1,590	1,520	1,510	----------	1,380	826	330	798	547	636	164
31	1,220	----------	1,510	1,510	----------	1,390	----------	492	----------	707	725	----------
Total	44,610	45,932	48,570	46,540	42,090	39,800	32,743	17,627	22,874	28,006	23,411	8,706
Mean	1,439	1,531	1,567	1,501	1,503	1,284	1,091	569	762	903	755	290
Ac-ft	88,480	91,100	96,340	92,310	83,480	78,940	64,940	34,960	45,370	55,550	46,440	17,270

Calendar year 1965: Max 2,080 Min 139 Mean 1,096 Ac-ft 786,100
Water year 1965-66: Max 1,880 Min 11 Mean 1,098 Ac-ft 795,200

BEAR RIVER BASIN

10-930. Cub River near Preston, Idaho

Location.--Lat 42°08', long 111°41', in SW¼ sec.6, T.15 S., R.41 E., on right bank 0.2 mile upstream from headgates of Cub River-Worm Creek Canal, 0.7 mile upstream from forest boundary, and 10 miles east of Preston.

Drainage area.--13.4 sq mi.

Records available.--March 1940 to September 1952, October 1955 to September 1966.

Gage.--Water-stage recorder. Altitude of gage is 5,320 ft (from topographic map).

Average discharge.--23 years, 82.8 cfs (59,980 acre-ft per year).

Extremes.--Maximum discharge during year, 475 cfs May 10 (gage height, 2.62 ft); minimum, 21 cfs Mar. 8, 1940-52, 1955-66; Maximum discharge, 715 cfs June 7, 1957 (gage height, 3.39 ft); maximum gage height, 3.83 ft June 2, 1943; no flow for part of Jan. 29, 1965, result of snowslide.

Remarks.--Records good. No diversions above station.

Discharge, in cubic feet per second, water year October 1965 to September 1966

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	39	31	28	24	22	23	71	125	186	64	40	30
2	38	31	28	24	22	22	72	135	172	63	39	30
3	38	31	28	24	22	22	65	210	159	62	39	30
4	38	31	28	24	22	22	60	270	149	62	38	30
5	38	31	28	24	22	22	67	307	137	59	38	29
6	38	30	28	24	22	22	58	354	132	58	36	29
7	37	30	28	24	22	22	62	415	125	57	35	29
8	36	30	28	24	22	22	66	430	121	56	34	28
9	36	30	28	24	22	22	81	430	120	55	34	28
10	35	30	28	24	22	25	95	465	120	54	34	27
11	35	30	28	24	22	25	94	415	120	53	33	28
12	34	31	28	24	22	25	82	314	115	52	33	28
13	34	30	27	24	22	26	74	253	108	52	32	28
14	34	29	27	24	22	28	68	218	103	52	32	29
15	34	33	27	24	22	31	68	198	101	52	32	28
16	34	29	26	24	22	34	77	183	98	51	32	28
17	34	30	26	23	22	30	92	166	95	49	32	27
18	34	29	26	23	22	28	98	166	92	48	32	26
19	34	31	26	23	22	28	94	195	88	47	32	26
20	33	31	26	23	22	27	85	208	86	46	32	25
21	33	29	26	23	22	26	78	223	83	45	32	25
22	33	29	26	23	22	25	71	250	82	44	31	25
23	32	29	25	23	22	25	66	228	81	43	31	25
24	32	31	25	23	22	25	64	198	78	43	31	25
25	32	30	25	23	22	28	68	181	75	42	31	25
26	32	29	25	23	22	35	85	186	72	40	31	25
27	32	29	25	22	22	43	86	195	71	40	31	25
28	32	28	25	22	22	50	85	205	69	40	31	24
29	32	28	25	22	----------	55	82	208	68	40	31	24
30	32	28	25	22	----------	59	108	203	65	40	30	24
31	31	----------	25	22	----------	64	----------	200	----------	41	30	----------
Total	1,066	896	824	724	616	941	2,321	7,800	3,171	1,550	1,029	810
Mean	34.4	29.9	26.6	23.4	22	30.4	77.4	252	106	50.0	33.2	27.0
Ac-ft	2,110	1,780	1,630	1,440	1,220	1,870	4,600	15,470	6,290	3,070	2,040	1,610

Calendar year 1965: Max 646 Min 18 Mean 107 Ac-ft 77,290
Water year 1965-66: Max 465 Min 22 Mean 88.6 Ac-ft 43,130

BEAR RIVER BASIN

10-1090. Logan River above State dam, near Logan, Utah

Location.--Lat 41°44'40", long 111°47'00", in NE¼ sec.36, T.12 N., R.1 E., on right bank at Logan plant of Utah Power & Light Co., 125 ft upstream from tailrace, half a mile upstream from State dam, and 2½ miles east of Logan.

Drainage area.--216 sq mi.

Records available.--June 1896 to September 1966. Published as Logan River near Logan prior to 1913. Records since May 1913 equivalent to earlier records if records for Utah Power & Light Co.'s tailrace near Logan are added. Monthly discharge only for some periods, published in WSP 1314.

Gage.--Water-stage recorder and concrete control. Altitude of gage is 4,680 ft (from topographic map). Prior to May 7, 1913, staff gage at various sites within half a mile downstream, below confluence of tailrace, at different datums. May 7 to Sept. 30, 1913, water-stage recorder at present site at different datums and Oct. 1, 1913, to Sept. 3, 1936, at datum about 2.3 ft lower than present datum.

Average discharge.--53 years (1913-66), 102 cfs (73,840 acre-ft per year). Average combined discharge of Logan River above State dam, Utah Power & Light Co.'s tailrace, and Logan, Hyde Park & Smithfield Canal, 70 years (1896-1966), 273 cfs (197,600 acre-ft per year).

Extremes.--Maximum discharge during year, 610 cfs May 10 (gage height, 3.51 ft); minimum daily, 14 cfs Nov. 1-4.

Maximum combined discharge during year (Logan River above State dam, Utah Power & Light Co.'s tailrace, and Logan, Hyde Park & Smithfield Canal) 875 cfs May 10; minimum daily, 103 cfs Mar. 4, 5.

1913-66: Maximum discharge, 2,000 cfs Mar. 21, 1916 (gage height, 5.6 ft, datum then in use), from rating curve extended above 1,000 cfs; minimum daily, 6 cfs Nov. 7, 1940.

1896-1966: Maximum combined observed discharge (Logan River above State dam, Utah Power & Light Co.'s tailrace, and Logan, Hyde Park & Smithfield Canal), 2,480 cfs May 24, 1907; minimum daily, 50 cfs Jan. 21, 1935.

Remarks.--Records excellent. Water diverted from river and springs above station for power, irrigation, and municipal supply. Flow regulated by powerplants above station. For records of combined flow of Logan River, Utah Power & Light Co.'s tailrace, and Logan, Hyde Park & Smithfield Canal, see following page. Combined flow record excludes that in Logan City culinary pipe lines and one small irrigation diversion from Power flume that siphons canyon 400 ft upstream from station. During 1963 site of gaging station for Logan, Hyde Park & Smithfield Canal was changed; records of combined flow since that time are equivalent to previous records.

Cooperation.--Records collected in collaboration with Utah Power & Light Co. in connection with a Federal Power Commission project.

Discharge, in cubic feet per second, water year October 1965 to September 1966

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	17	14	22	24	23	21	167	157	189	26	19	19
2	17	14	22	20	22	22	149	182	165	24	19	20
3	16	14	21	21	21	21	123	234	149	20	19	20
4	16	14	20	23	22	21	134	291	137	20	19	19
5	16	21	22	23	22	23	128	350	126	20	18	19
6	16	33	21	23	22	26	146	377	112	20	17	19
7	16	33	18	24	23	26	175	412	106	20	17	17
8	16	34	16	22	21	21	159	428	104	19	17	18
9	17	33	20	20	23	20	210	428	99	19	18	19
10	17	32	22	19	21	21	242	538	99	19	18	19
11	19	27	22	24	21	22	300	494	99	19	17	18
12	17	18	21	21	23	20	192	396	89	19	16	19
13	17	20	21	20	22	21	167	339	82	33	19	19
14	17	20	19	20	22	24	150	302	75	43	19	19
15	17	22	15	21	22	30	147	266	73	43	19	20
16	16	22	16	19	21	36	126	246	73	42	19	19
17	16	20	15	18	22	36	169	238	69	42	20	19
18	16	19	16	20	23	28	189	228	62	36	20	19
19	16	48	15	20	21	28	162	214	50	34	20	18
20	16	26	16	21	21	30	134	220	50	26	20	32
21	16	31	16	20	21	30	117	234	50	18	19	31
22	15	30	26	22	21	30	155	270	48	27	19	29
23	15	36	22	27	21	32	87	252	48	33	19	16
24	15	44	19	28	21	37	77	206	40	32	19	16
25	15	42	20	26	21	36	79	189	36	27	19	16
26	17	33	21	24	21	43	96	200	33	22	18	16
27	16	31	20	24	21	60	94	210	31	21	18	16
28	16	22	22	23	21	83	89	214	31	21	18	28
29	16	21	27	22	----------	120	96	210	30	20	18	30
30	16	22	32	23	----------	129	112	210	28	20	16	16
31	15	----------	26	23	----------	158	----------	206	----------	19	16	----------
Total	503	796	633	685	606	1,257	4,271	8,723	2,384	806	575	603
Mean	16.2	26.5	20.4	22.1	21.6	40.5	142	281	79.5	26.0	18.5	20.2
Ac-ft	998	1,580	1,260	1,360	1,200	2,490	8,470	17,300	4,730	1,600	1,140	1,200

Calendar year 1965: Max 904 Min 14 Mean 155 Ac-ft 112,000
Water year 1965-66: Max 536 Min 14 Mean 59.8 Ac-ft 43,330

BEAR RIVER BASIN

10-1090. Logan River above State dam, near Logan, Utah — continued

Combined discharge, in cubic feet per second, of Logan River above State dam, Utah Power & Light Co.'s tailrace, and Logan, Hyde Park & Smithfield Canal at head, near Logan, Utah, water year October 1965 to September 1966

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	204	170	146	133	116	115	271	351	475	246	173	145
2	202	170	148	127	118	117	296	411	453	241	171	152
3	199	170	147	127	113	110	277	480	434	234	180	149
4	196	169	146	130	118	103	249	541	420	231	179	144
5	197	162	147	131	119	103	247	601	403	226	169	143
6	199	156	147	131	119	112	266	641	385	231	163	140
7	199	158	144	133	120	115	298	685	376	227	163	133
8	197	159	144	133	112	120	320	712	374	222	158	136
9	197	156	144	131	114	120	374	705	364	220	162	137
10	196	155	146	129	115	122	408	736	365	219	160	133
11	194	156	146	129	111	124	366	746	363	217	155	132
12	193	160	145	126	118	122	324	644	348	213	158	137
13	195	162	143	128	110	124	296	582	335	204	157	134
14	193	162	141	127	114	127	276	544	326	204	153	141
15	192	165	132	129	116	138	278	505	323	204	152	148
16	194	163	131	121	112	145	304	486	320	201	152	141
17	191	162	130	115	114	145	354	473	311	200	151	139
18	190	158	132	118	117	137	374	469	308	196	150	134
19	189	153	131	118	113	137	341	472	303	191	154	133
20	189	166	129	119	115	139	307	478	299	190	153	129
21	187	166	126	109	113	138	294	491	294	189	150	120
22	183	157	125	116	113	138	286	528	298	190	149	118
23	182	163	135	122	112	134	286	510	297	190	148	117
24	182	172	132	122	115	137	281	470	281	181	146	116
25	181	170	133	118	117	140	289	466	273	176	146	120
26	173	161	133	118	113	145	289	483	267	178	144	121
27	179	159	129	119	115	164	290	502	261	178	144	125
28	179	147	131	119	115	190	288	510	259	178	146	121
29	176	147	139	118	---	202	302	504	254	177	144	123
30	175	146	142	119	---	220	321	492	250	175	140	122
31	174	---	135	119	---	246	---	487	---	173	142	---
Total	5,879	4,864	4,289	3,836	3,219	4,331	9,092	16,765	10,015	6,301	4,812	3,985
Mean	190	162	138	124	115	140	303	541	334	203	155	133
Ac-ft	11,660	9,650	8,510	7,610	6,380	8,590	18,030	33,250	19,860	12,500	9,540	7,900

Calendar year 1965: Max 1,170 Min 102 Mean 326 Ac-ft 235,800
Water year 1965-66: Max 796 Min 103 Mean 212 Ac-ft 153,500

BEAR RIVER BASIN

10-1170. Hammond (East Side) Canal near Collinston, Utah

Location.--Lat 41°50', long 112°03', in SE¼ sec.27, T.13 N., R.2 W., on right bank 3,600 ft downstream from Cutler Dam and 4 miles north of Collinston.

Records available.--June 1912 to September 1966. Prior to 1915, published as Hammond ditch near Collinston. Monthly discharge only for some periods, published in WSP 1314.

Gage.--Water-stage recorder. Prior to May 22, 1914, staff gage at same site and datum.

Average discharge.--54 years, 50.9 cfs (36,850 acre-ft per year).

Extremes.--1912-66: Maximum daily discharge, 184 cfs June 29, 1963; no flow at times in each year.

Remarks.--Records good. Canal diverts from east side of Bear River in NW¼SE¼ sec.26, T.13 N., R.2 W., at dam at which West Side Canal and intake of Cutler powerplant also divert. Water from this canal and West Side Canal used for irrigation of about 80,000 acres below station in eastern Box Elder County.

Cooperation.--Gage-height record and six discharge measurements furnished by Utah Power & Light Co.

Discharge, in cubic feet per second, water year October 1965 to September 1966

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	52	27						0	161	165	157	130
2	52	23						0	160	165	157	125
3	55	22						66	160	167	153	125
4	53	22						88	161	164	150	126
5	48	22						130	161	164	150	121
6	45	22						147	156	163	149	119
7	49	22						162	150	163	150	119
8	56	22						175	148	165	150	119
9	56	22						173	146	165	152	116
10	56	21						132	148	168	157	118
11	56	21						105	148	162	155	118
12	50	22						105	148	155	155	118
13	46	22						104	149	154	155	118
14	46	22						104	157	157	155	115
15	42	22						105	165	154	154	113
16	36	19						105	164	153	156	108
17	38	18						113	165	152	157	106
18	36	9.8						124	165	153	157	106
19	33	3.6						134	163	151	157	106
20	33	3.4						140	165	150	157	103
21	32	3.3						151	165	150	155	101
22	32	3.1						155	165	150	153	100
23	32	3.0						156	159	151	150	99
24	32	3.1						156	165	152	145	106
25	31	3.0						155	167	152	146	109
26	31	1.9						160	163	153	144	103
27	32	0						161	165	147	139	98
28	32	0						162	165	157	138	96
29	32	0			---------			162	164	157	139	92
30	32	0			---------			161	164	160	137	91
31	32	---------			---------		---------	160	---------	156	136	---------
Total	1,286	405.2	0	0	0	0	0	3,951	4,773	4,875	4,664	3,322
Mean	41.5	13.5	0	0	0	0	0	127	159	157	150	111
Ac-ft	2,550	804	0	0	0	0	0	7,840	9,470	9,670	9,250	6,590

Calendar year 1965: Max 172 Min 0 Mean 56.7 Ac-ft 41,040
Water year 1965-66: Max 175 Min 0 Mean 65.8 Ac-ft 48,170

BEAR RIVER BASIN

10-1175. West Side Canal near Collinston, Utah

Location.--Lat 41°50', long 112°04', in SW¼ sec.27, T.13 N., R.2 W., on left bank 4,200 ft downstream from Cutler Dam and 4 miles north of Collinston.

Records available.--June 1912 to September 1966. Monthly discharge only for some periods, published in WSP 131

Gage.--Water-stage recorder. Prior to May 22, 1914 staff gage at same site and datum.

Average discharge.--54 years, 237 cfs (171,600 acre-ft per year).

Extremes.--1912-66: Maximum daily discharge, 755 cfs July 7, 1964; no flow for periods in every year except 1914.

Remarks.--Records good except those for winter months, which are fair. Canal diverts from west side of Bear River in NW¼SW¼ sec.26, T.13 N., R.2 W., at dam at which Hammond (East Side) Canal and intake of Cutler powerplant also divert. Water from this canal and Hammond (East Side) Canal used for irrigation of about 58,000 acres below station in eastern Box Elder County.

Cooperation.--Gage-height record and 7 discharge measurements furnished by Utah Power & Light Co.

Discharge, in cubic feet per second, water year October 1965 to September 1966

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	356	135	84	80	35	10		0	739	731	687	643
2	346	113	84	80	35	10		3.5	741	731	681	626
3	344	106	84	80	35	10		258	737	727	683	616
4	342	106	84	80	35	10		300	727	721	681	605
5	324	106	80	80	35	10		432	719	733	673	601
6	304	106	80	80	35	10		526	715	731	671	596
7	287	106	80	80	35	10		618	707	731	673	592
8	322	106	80	80	22	9.9		655	699	725	675	582
9	330	106	80	80	10	9.9		665	671	719	695	575
10	329	105	80	80	10	10		450	643	707	701	561
11	320	105	80	80	10	10		316	641	697	701	556
12	300	106	80	80	10	9.9		271	641	697	699	554
13	277	106	80	80	10	9.6		262	653	699	701	546
14	264	106	80	80	10	9.6		257	689	693	701	527
15	253	107	80	80	10	9.6		255	701	687	701	508
16	245	104	80	80	10	9.3		273	715	689	709	482
17	243	101	80	80	10	9.1		371	729	683	709	466
18	228	101	80	80	10	8.8		481	731	671	707	464
19	200	101	80	65	10	4.1		554	731	667	707	454
20	170	101	80	50	10	0		626	729	661	707	445
21	155	101	80	50	10	0		659	729	665	707	449
22	155	94	80	50	10	0		683	723	661	689	470
23	154	87	80	50	10	0		677	723	645	679	477
24	153	88	80	50	10	0		675	721	636	677	473
25	152	88	80	50	10	0		701	727	641	677	477
26	151	87	80	50	10	0		727	731	645	669	472
27	149	84	80	50	10	0		735	731	630	667	461
28	149	84	80	50	10	0		737	731	632	661	463
29	148	84	80	50	-------	0		737	733	634	661	470
30	147	84	80	50	-------	0		735	731	671	659	459
31	148	-------	80	40	-------	0	-------	735	-------	691	651	-------
Total	7,447	3,014	2,496	2,095	467	179.8	0	15,374.5	21,338	21,251	21,255	15,672
Mean	240	100	80.5	67.6	16.7	5.80	0	496	711	686	686	522
Ac-ft	14,770	5,980	4,950	4,160	926	357	0	30,490	42,320	42,150	42,160	31,080

Calendar year 1965: Max 729 Min 0 Mean 270 Ac-ft 196,400
Water year 1965-66: Max 741 Min 0 Mean 303 Ac-ft 219,300

BEAR RIVER BASIN

10-1180. Bear River near Collinston, Utah

Location.--Lat 41°50', long 112°03', in NW¼SE¼ sec.27, T.13 N., R.2 W., on right bank 800 ft downstream from Cutler plant of Utah Power & Light Co., 2,600 ft downstream from Cutler Dam, and 8½ miles north of Collinston.

Drainage area.--6,000 sq mi, approximately.

Records available.--July 1889 to September 1966. Published as "at Collinston" prior to 1900. Monthly discharge only for some periods, published in WSP 1314.

Gage.--Digital water-stage recorder. Datum of gage is 4,276.13 ft above mean sea level (levels by Bureau of Reclamation). Prior to Nov. 8, 1913, staff gage, and Nov. 8, 1913 to Sept. 10, 1938, graphic water-stage recorder, at site three-quarters of a mile downstream at different datums. Sept. 10, 1938 to July 6, 1966, graphic water-stage recorder at same site and datum.

Extremes.--Maximum discharge during year, 3,980 cfs Mar. 15, Apr 15 (gage height, 4.82 ft); minimum daily, 19 cfs July 28.

1889-1966: Maximum discharge observed, 11,600 cfs June 7-10, 1909 (gage height, 7.70 ft, site and datum then in use); minimum daily, 10 cfs Aug. 4-12, 18-23, 1905; practically no flow at 12 p.m. Aug. 5, 1920.

Remarks.--Records excellent. Natural flow of stream affected by storage reservoir, power developments, diversions for irrigation, and return flow from irrigated areas.

Cooperation.--Eight discharge measurements furnished by Utah Power & Light Co.

Discharge, in cubic feet per second, water year October 1965 to September 1966

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,860	1,940	2,300	2,900	1,760	2,130	2,990	410	21	23	21	20
2	1,870	2,010	2,300	2,830	2,200	2,040	2,980	1,210	24	23	20	21
3	1,860	2,000	2,750	2,670	2,200	1,860	2,960	1,450	23	25	20	21
4	1,860	1,840	2,590	2,580	2,310	2,010	3,010	1,540	22	23	20	21
5	1,590	2,010	2,270	2,300	2,110	1,670	3,040	1,130	22	24	20	21
6	1,720	1,760	2,410	2,450	2,210	1,780	2,600	1,240	22	23	21	20
7	1,870	1,670	2,150	2,280	2,460	2,010	2,610	1,470	87	22	22	21
8	1,870	1,790	2,200	2,270	2,360	2,680	2,640	1,440	21	22	24	21
9	1,890	1,580	2,220	2,360	2,260	1,730	2,690	1,320	21	25	20	21
10	1,830	1,880	2,220	2,760	2,070	1,890	2,850	2,170	22	22	21	21
11	1,800	1,730	2,020	2,540	2,140	2,340	2,630	2,670	24	22	21	21
12	1,760	1,730	1,950	2,460	1,990	2,530	2,350	2,220	24	23	21	66
13	1,260	1,900	2,210	2,400	1,900	2,830	3,140	2,480	24	21	21	23
14	1,680	2,040	2,320	2,380	1,890	2,790	3,070	2,610	25	21	21	23
15	1,630	2,050	2,150	2,330	1,920	3,360	3,050	2,410	25	21	21	24
16	1,820	2,080	1,900	2,050	1,680	3,730	2,840	2,310	25	21	21	24
17	1,860	2,180	1,900	2,150	2,030	3,820	2,280	2,270	25	21	21	23
18	1,720	2,200	1,750	2,240	2,190	3,800	2,150	1,220	25	22	21	23
19	1,740	2,440	1,600	1,870	2,460	3,310	2,260	887	26	20	21	23
20	1,670	2,980	1,800	1,730	2,620	3,140	2,200	1,210	26	20	22	24
21	1,910	2,600	1,650	1,670	2,620	2,870	2,240	443	26	21	25	24
22	1,970	2,780	1,750	1,380	2,590	2,900	2,100	499	26	20	21	24
23	1,970	2,770	1,850	1,500	2,570	2,880	1,970	23	26	20	21	24
24	2,010	2,450	2,100	1,740	2,260	2,940	1,870	361	26	20	21	24
25	2,020	2,550	1,950	1,860	2,420	2,650	1,670	23	26	20	21	24
26	2,020	2,550	2,000	2,180	2,190	2,640	1,440	23	26	20	20	637
27	2,020	2,840	2,100	2,100	2,390	2,610	2,080	23	25	20	20	23
28	1,790	2,800	2,220	1,980	2,080	2,560	2,010	23	25	19	20	584
29	2,020	2,600	2,170	2,040	---	3,010	1,780	22	25	20	21	23
30	2,060	2,500	2,960	2,200	---	2,570	793	22	23	20	21	588
31	1,780	---	2,730	2,310	---	2,790	---	21	---	20	20	---
Total	55,730	66,250	66,250	66,520	61,660	82,290	72,473	35,360	788	665	651	2,458
Mean	1,798	2,208	2,137	2,210	2,202	2,655	2,416	1,140	26.3	21.5	21.0	81.9
Ac-ft	110,500	131,400	131,400	131,900	122,300	163,200	143,700	70,120	1,560	1,320	1,290	4,870

Calendar year 1965: Max 3,850 Min 33 Mean 1,738 Ac-ft 1,259,000
Water year 1965-66: Max 3,820 Min 19 Mean 1,406 Ac-ft 1,018,000

BEAR RIVER BASIN
10-1260. Bear River near Corinne, Utah

Location.--Lat 41°34'38", long 112°08'00", in NE¼NE¼ sec.30, T.10 N., R.2 W., on right bank 1.2 miles downstream from Daly Creek, 2.0 miles northeast of Corinne and 2.6 miles downstream from Malad River.

Drainage area.--6,800 sq mi, approximately.

Records available.--October 1949 to September 1957, October 1962 to September 1966.

Gage.--Water-stage recorder. Datum of gage is 4,204.6 ft, unadjusted. Auxiliary staff gage 7,800 ft downstream July 27, 1960 to Mar. 31, 1965.

Average discharge.--11 years, 1,838 cfs (1,186,000 acre-ft per year).

Extremes.--Maximum discharge during year, 4,190 cfs Mar. 18 (gage height, 11.06 ft); minimum daily, 74 cfs July 30.

1949-57, 1963-66: Maximum discharge, 7,200 cfs May 6, 1952 (gage height, 14.68 ft); maximum gage height, 14.96 ft Feb. 11, 1951; minimum daily discharge, 72 cfs Aug. 20, 21, 26, Sept. 8, 1964.

Remarks.--Records good except those for period of no gage-height record, which are fair. Natural flow of Bear River affected by storage reservoirs, power developments, diversions for irrigation, and return flow from irrigated areas. Records are equivalent to flow at Bear River Bird Refuge diversion works.

Discharge, in cubic feet per second, water year October 1965 to September 1966

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,880	2,080	2,740	3,120	2,400	2,450	3,070	1,180	94	101	84	94
2	1,960	2,120	2,810	3,100	2,100	2,300	3,170	870	98	113	84	107
3	1,940	2,300	2,810	3,080	2,300	2,250	3,160	1,080	96	102	88	118
4	1,940	2,180	2,900	2,930	2,400	2,200	3,180	1,830	109	108	96	120
5	1,910	2,110	2,750	2,750	2,500	2,200	3,170	1,810	128	109	91	122
6	1,850	2,150	2,650	2,600	2,400	2,000	2,080	1,470	144	111	87	118
7	1,870	2,000	2,600	2,580	2,600	1,960	2,800	1,620	144	119	88	113
8	2,110	1,920	2,500	2,500	2,600	2,080	2,770	1,600	136	119	95	118
9	2,030	2,040	2,450	2,500	2,500	2,160	2,840	1,760	100	101	98	108
10	2,120	1,960	2,400	2,600	2,500	2,100	2,850	1,960	103	109	98	107
11	2,020	1,880	2,300	2,900	2,540	2,810	2,080	2,710	148	120	96	107
12	2,000	1,860	2,270	2,800	2,300	2,560	2,810	2,540	156	124	87	122
13	2,040	2,000	2,220	2,700	2,200	3,200	2,580	2,190	126	122	84	128
14	1,980	2,170	2,380	2,600	2,130	3,210	3,170	2,760	122	128	80	148
15	1,900	2,080	2,460	2,650	2,100	3,520	3,170	2,760	128	128	79	142
16	1,900	2,300	2,380	2,460	2,080	3,710	3,150	2,680	122	116	78	128
17	2,080	2,360	2,270	2,400	1,980	4,070	2,940	2,610	126	124	78	134
18	2,140	2,450	2,080	2,400	2,180	4,170	2,400	2,420	122	122	78	122
19	2,020	2,660	1,980	2,400	2,400	4,070	2,580	1,800	116	124	78	130
20	1,980	2,980	1,900	2,650	2,600	3,720	2,440	1,280	128	128	82	120
21	2,090	3,110	1,900	1,900	2,680	3,540	2,390	1,480	121	116	89	98
22	2,130	2,750	1,850	1,800	2,720	3,280	2,380	867	99	132	98	91
23	2,240	2,030	1,900	1,700	2,800	3,240	2,330	730	108	128	86	82
24	2,220	2,140	2,020	1,850	2,850	3,200	2,150	647	107	141	85	78
25	2,260	2,280	2,200	1,880	2,500	3,200	2,080	485	104	140	84	82
26	2,240	2,900	2,150	2,100	2,800	2,870	1,980	138	106	114	98	80
27	2,350	3,060	2,220	2,300	2,800	2,680	1,800	107	108	87	92	417
28	2,280	3,110	2,410	2,400	2,800	2,810	2,220	92	101	84	98	738
29	2,040	3,090	2,610	2,200	--------	2,980	2,230	84	101	79	110	417
30	2,250	2,900	2,650	2,300	---------	2,970	2,000	87	98	74	107	384
31	2,240	----------	2,800	2,350	----------	2,920	---------	88	----------	78	96	---------
Total	62,050	73,360	73,270	75,560	67,710	90,430	80,000	43,832	3,688	3,480	2,750	4,325
Mean	2,002	2,445	2,364	2,437	2,418	2,917	2,667	1,414	123	112	88.7	144
Ac-ft	123,100	145,500	145,300	149,900	134,300	179,400	158,700	86,940	7,316	6,900	5,456	8,576

Calendar year 1965: Max 3,950 Min 65 Mean 1,924 Ac-ft 1,393,000
Water year 1965-66: Max 4,170 Min 74 Mean 1,894 Ac-ft 1,154,000

None.--No gage-height record Dec. 31 to Mar. 5.