FIFTEENTH ANNUAL REPORT

BEAR RIVER COMMISSION

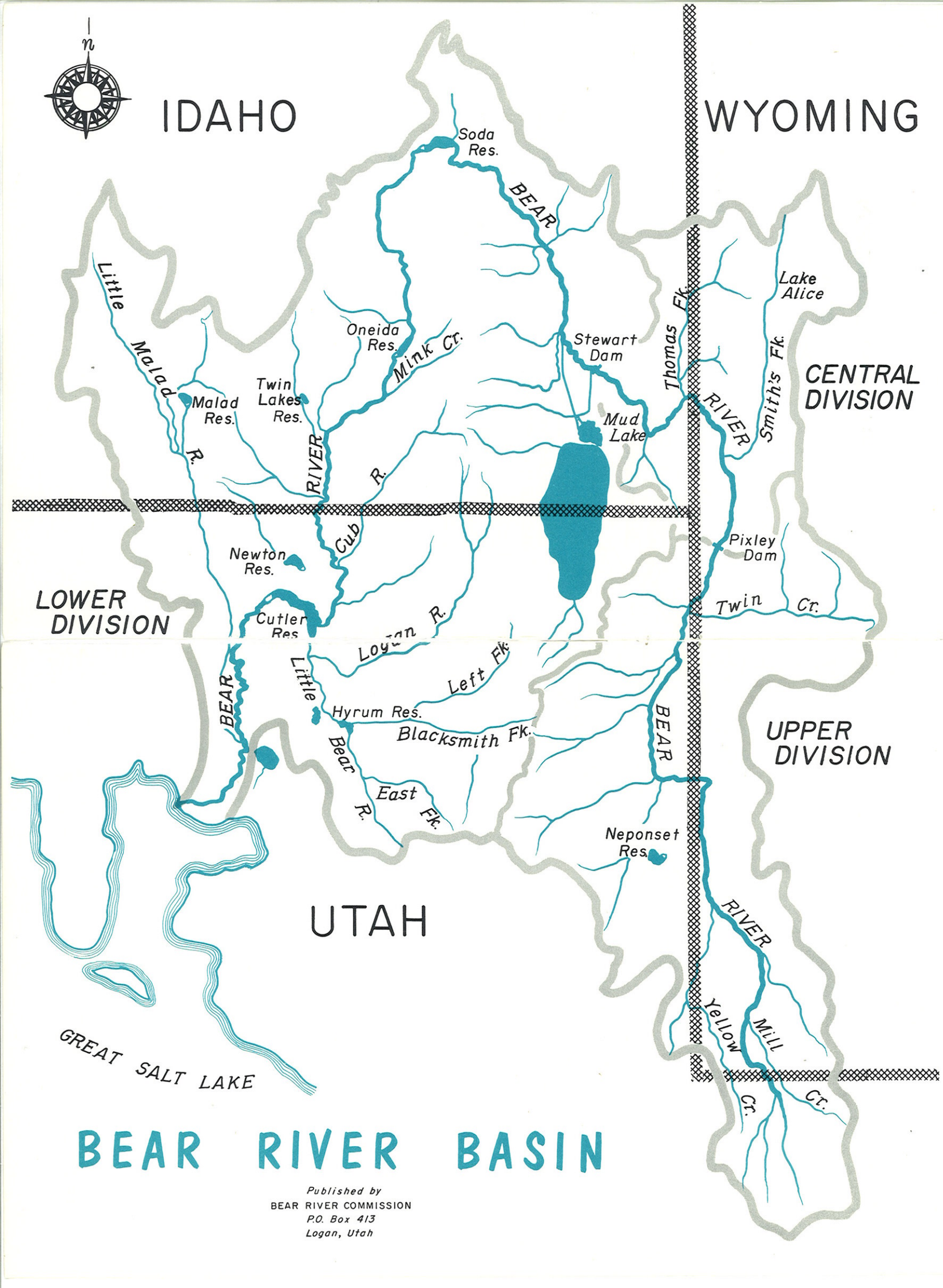
1972

For the Report Year October 1, 1971 to

September 30, 1972

LOGAN, UTAH

April 1, 1973



BEAR RIVER BASIN

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

BEAR RIVER COMMISSION

P. O. BOX 413

LOGAN, UTAH

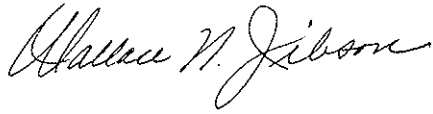
April 1, 1973

Mr. President:

Submitted herewith is the Fifteenth 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

Assistant Secretary

The President
The White House
Washington, D. C.

CONTENTS

ILLUSTRATIONS AND TABLES

FIFTEENTH ANNUAL REPORT

of the

BEAR RIVER COMMISSION

April 1, 1973

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, 1972 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.

Ferris M. Kunz, Idaho delegate, was elected in Annual Meeting to serve a second term as Vice-Chairman of the Commission. Other officers of the Commission continue to serve in their respective positions. No changes were made during the year in membership or committee assignments.

OFFICERS

Chairman ..... E. O. Larson, Salt Lake City, Utah
Vice-Chairman ..... Ferris M. Kunz, Montpelier, Idaho
Secretary-Treasurer ..... Daniel F. Lawrence, Bountiful, Utah
Assistant Secretary ..... Wallace N. Jibson, Logan, Utah

MEMBERS

Idaho

Ferris M. Kunz ..... Montpelier, Idaho
William G. Jenkins ..... Malad, Idaho
J. C. Hedin ..... Preston, Idaho
R. Keith Higginson (Ex officio) ..... Boise, Idaho

Utah

Daniel F. Lawrence ..... Bountiful, Utah
Gordon H. Peart ..... Randolph, Utah
S. Paul Holmgren ..... Bear River City, 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 Committee

J. W. Myers ..... Evanston, Wyoming
S. Paul Holmgren ..... Bear River City, Utah
Ferris M. Kunz ..... Montpelier, Idaho

Operations Committee

S. Reed Dayton ..... Cokeville, Wyoming
William G. Jenkins ..... Malad, Idaho
Gordon H. Peart ..... Randolph, Utah

MEETINGS

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

Regular Meeting—November 22, 1971....Salt Lake City, Utah
Annual Meeting—April 17, 1972.....Logan, Utah

BUDGET AND FISCAL DISBURSEMENTS

Adopted Budget

Compact Administration	*Fiscal Year Ending 6-30-1972*	*Fiscal Year Ending 6-30-1973*	*Fiscal Biennium Ending 6-30-73*
Personal Services	$ 5,962	$ 6,294	$ 12,256
Travel and Subsistence	450	250	700
General Office Expense	432	300	732
Fiscal and Administrative	352	352	704
Washington Office Tech. Charge	704	704	1,408
Printing and Reproduction	500	500	1,000
Treasurer (Bond and Audit)	300	300	600
Transcribing Minutes	100	100	200
Legal Retainer Fee	300	300	600
Miscellaneous	0	0	0
Sub-Total	$ 9,100*	$ 9,100	$ 18,200
Stream-Gaging Program			
U.S. Geological Survey	$67,411	$68,800	$136,211
Total	$76,511*	$77,900	$154,411

**As revised by $2,000 decrease, and supplemental Federal allocation of $611.*

Allocation of Budget

U.S. Geological Survey	$34,010	$34,400	$ 68,410
State of Idaho	14,167	14,500	28,667
State of Utah	14,167	14,500	28,667
State of Wyoming	14,167	14,500	28,667
Total	$76,511	$77,900	$154,411

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, 1972 and statement of budget revenue and appropriation accounts for the fiscal year ended June 30, 1972, 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.

Measurement of total Bear River basin flows across a control line (State Highway 83) west of Brigham City was made throughout the report year. This is the principal inflow to the Migratory Bird Refuge from which residual outflow is gaged at the trestle opening between Bear River Bay and Great Salt Lake. Logan office personnel are assisting in the study financed by Utah Division of Water Resources.

ADMINISTRATION OF BEAR RIVER COMPACT

Provisions of the Compact are administered and enforced by direction of 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.

Seasonal daily 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 have been published in all annual reports. Records for the Upper Division, beginning with last year, are now being published. (See frontispiece map for division boundaries and tables 1-10 for the daily records.)

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.

WATER SUPPLY

Basin streamflow in 1972 was about 92 percent of the record-breaking runoff in 1971, though supply from the Uintas fell off rapidly near mid-June and thereafter was below average. In contrast, supply from Smiths Fork and other major downstream tributaries remained well above average throughout the season.

The bar charts on the opposite page (figure 1) illustrate a comparison of monthly and yearly streamflow in 1972 with a longtime average. Mean flow in cubic feet per second is shown at three gaging stations representing the Upper, Central, and Lower Divisions of the basin. Streamflow at the two upper stations is the major supply for the Upper and Central Divisions so is shown also on daily hydrographs in figures 2 and 3. Seasonal and water-year discharge at these stations is summarized in acre-feet in the following table:

Discharge in Acre-feet — May - September

	Average 1943-72	*1971*	*1972*
Upper Bear River	116,100	141,600	127,400
Smith Fork	110,900	188,600	163,700
Logan River	123,300	216,400	182,100

Water Year

	Average 1943-72	*1971*	*1972*
Upper Bear River	138,800	171,300	155,600
Smith Fork	143,600	225,800	206,200
Logan River	184,400	295,200	275,500

Though total Bear River supply arriving at the point of diversion to Bear Lake was slightly less than in 1971, the inflow to the Lake exceeded that of any previous year of record because of smaller releases through Stewart Dam than in 1971. The inflow of 568,400 acre-feet was 232 percent of the 1924-72 average. Again, because the Lake could not store this large supply, the Outlet Canal also discharged a record flow of 671,700 acre-feet which slightly exceeded the previous highest year (1951) of record.

The bar charts in figure 4 illustrate the hydrology of Bear Lake and show graphically the large inflow and outflow in 1972. Gain from tributaries, as shown, represents the effect of peripherial tributary and ground water inflow exclusive of Bear River. Thus, under natural conditions in 1972 the Lake would have gained 94,000 acre-feet over its evaporation and other losses compared to the 1924-72 average of 11,000 acre-feet. Hydrographs are shown in figure 5.

Bear Lake Elevation (U.P. & L. Datum)

Water Year	*Beginning of Water Year*	*End of Storage Period*	*End of Water Year*
1971	5,919.23	5,923.12	5,920.98
1972	5,920.98	5,923.39	5,920.85

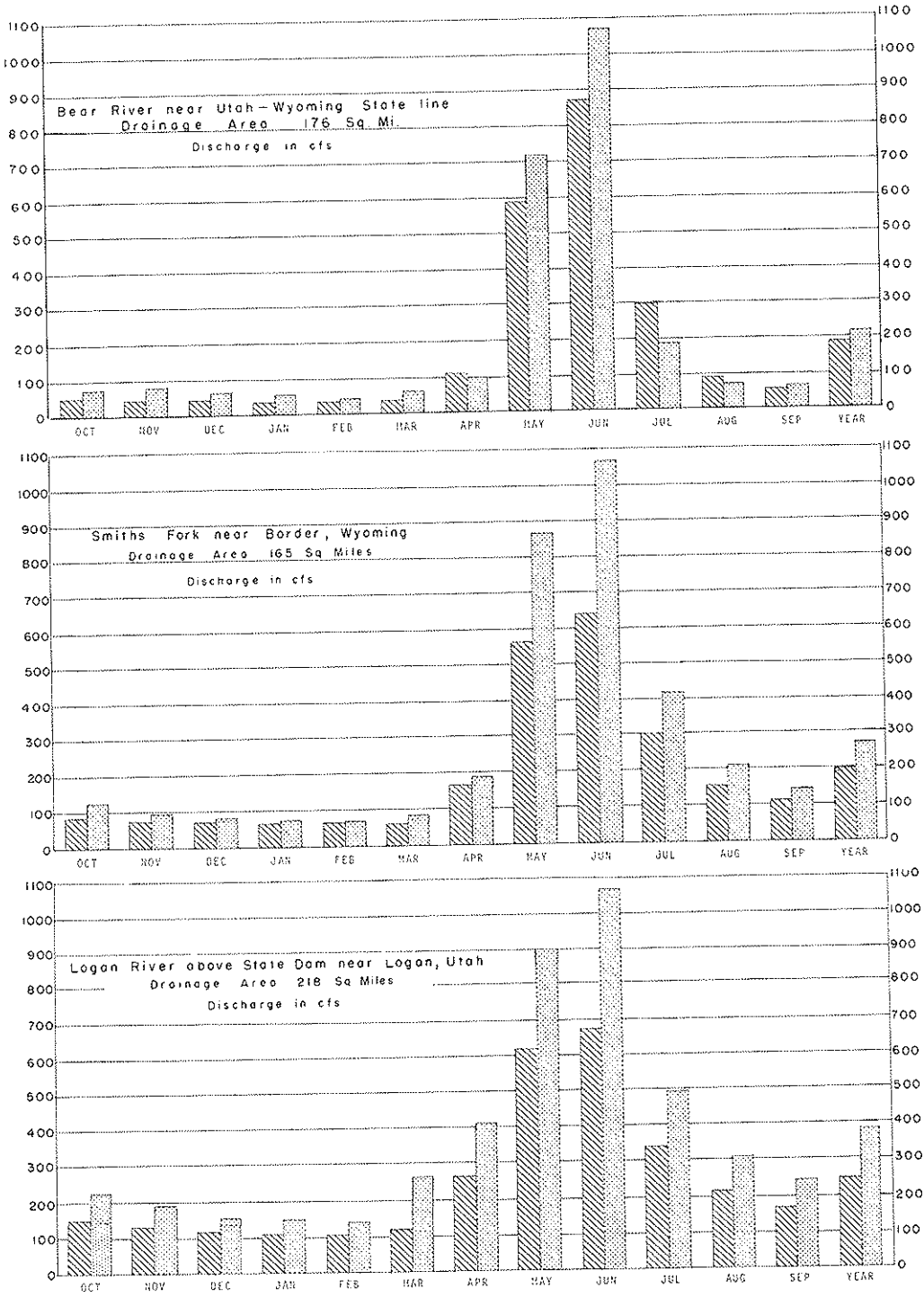
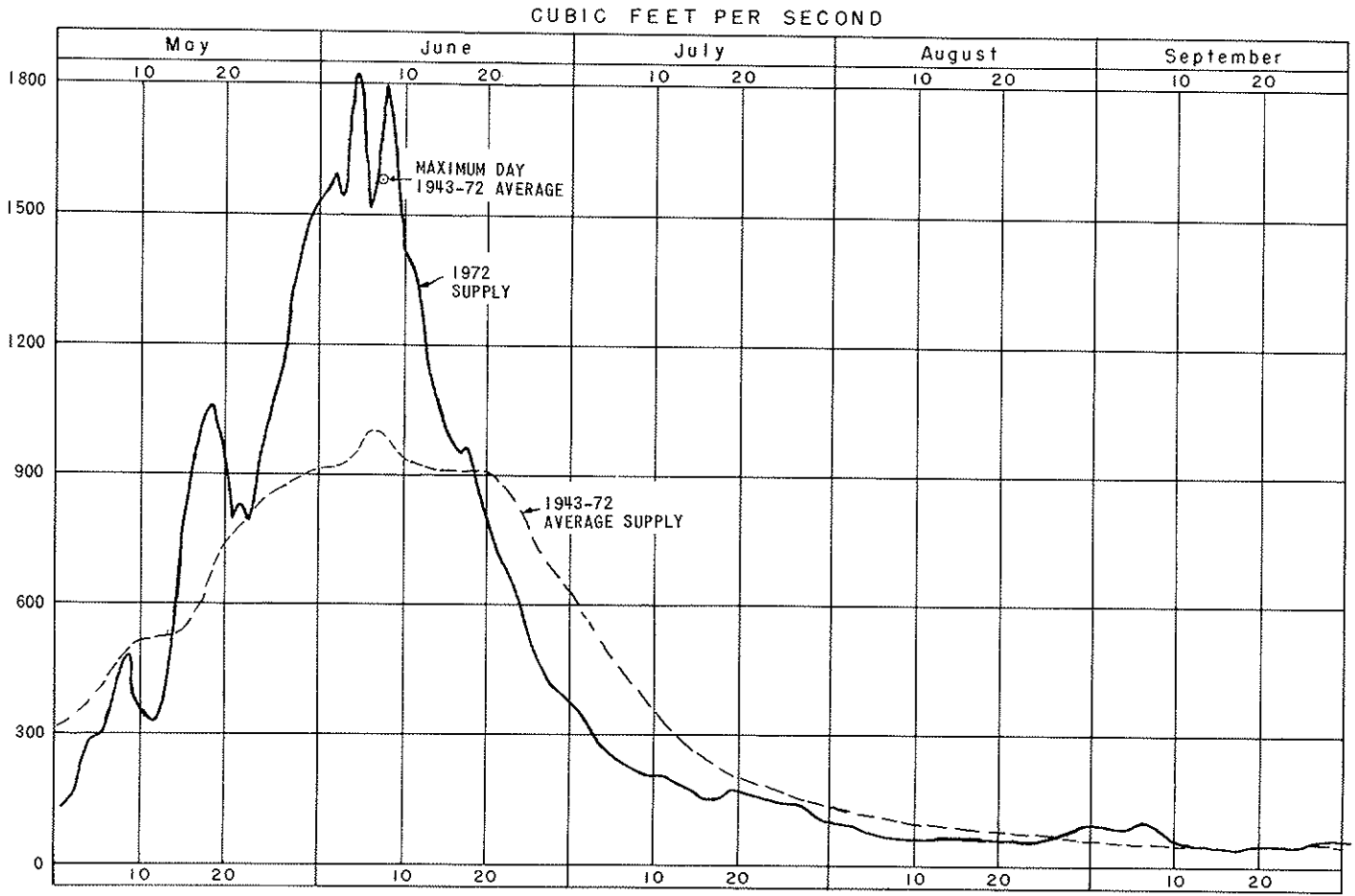


Figure 1. Comparison of discharge at three representative gaging stations in 1972 with average discharge for period 1943-72

UPPER DIVISION – BEAR RIVER SUPPLY *

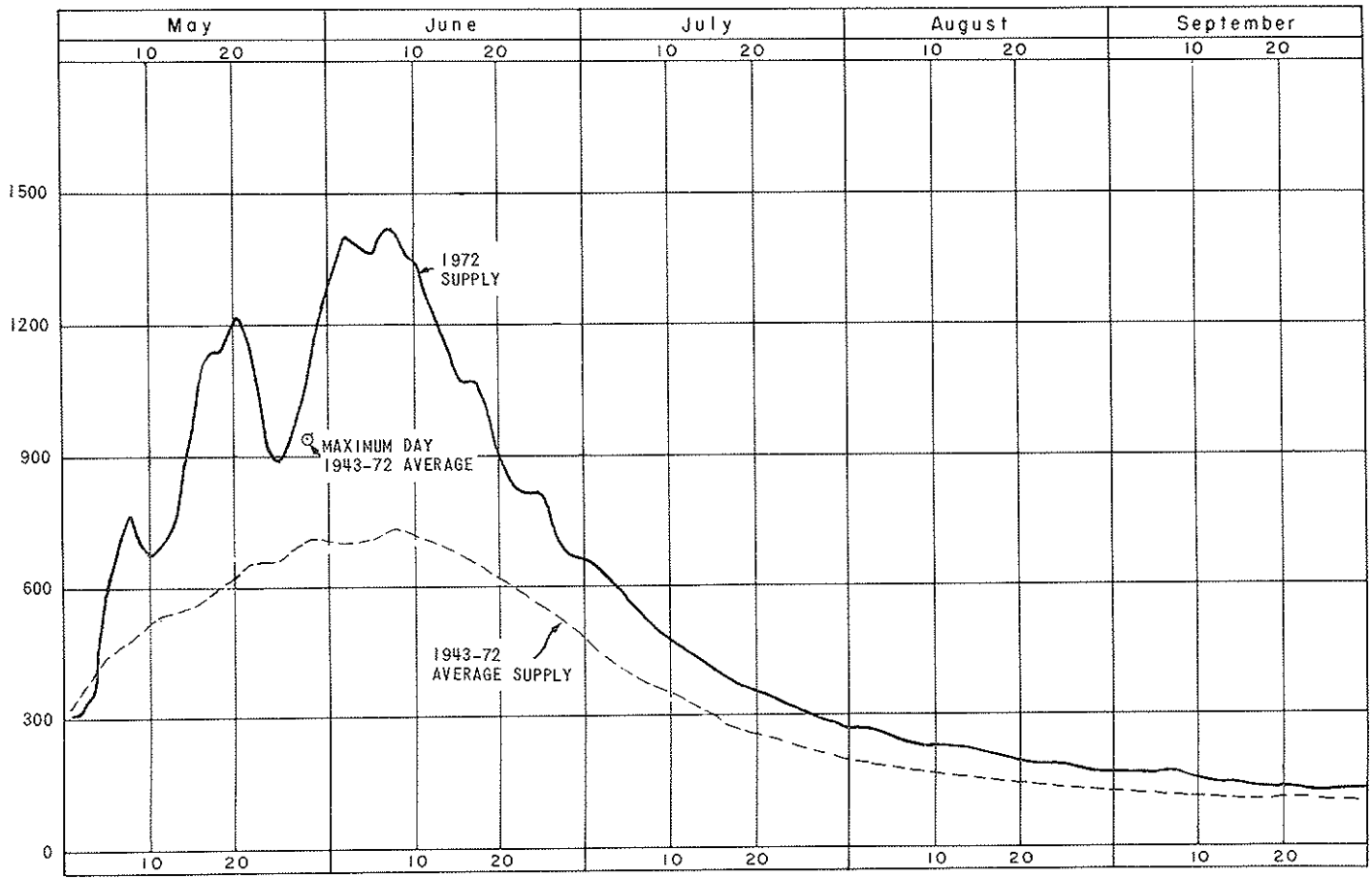


*Bear River near Utah-Wyoming State line

FIGURE 2

CENTRAL DIVISION – SMITHS FORK SUPPLY *

CUBIC FEET PER SECOND



*Smiths Fork near Border, Wyoming

FIGURE 3

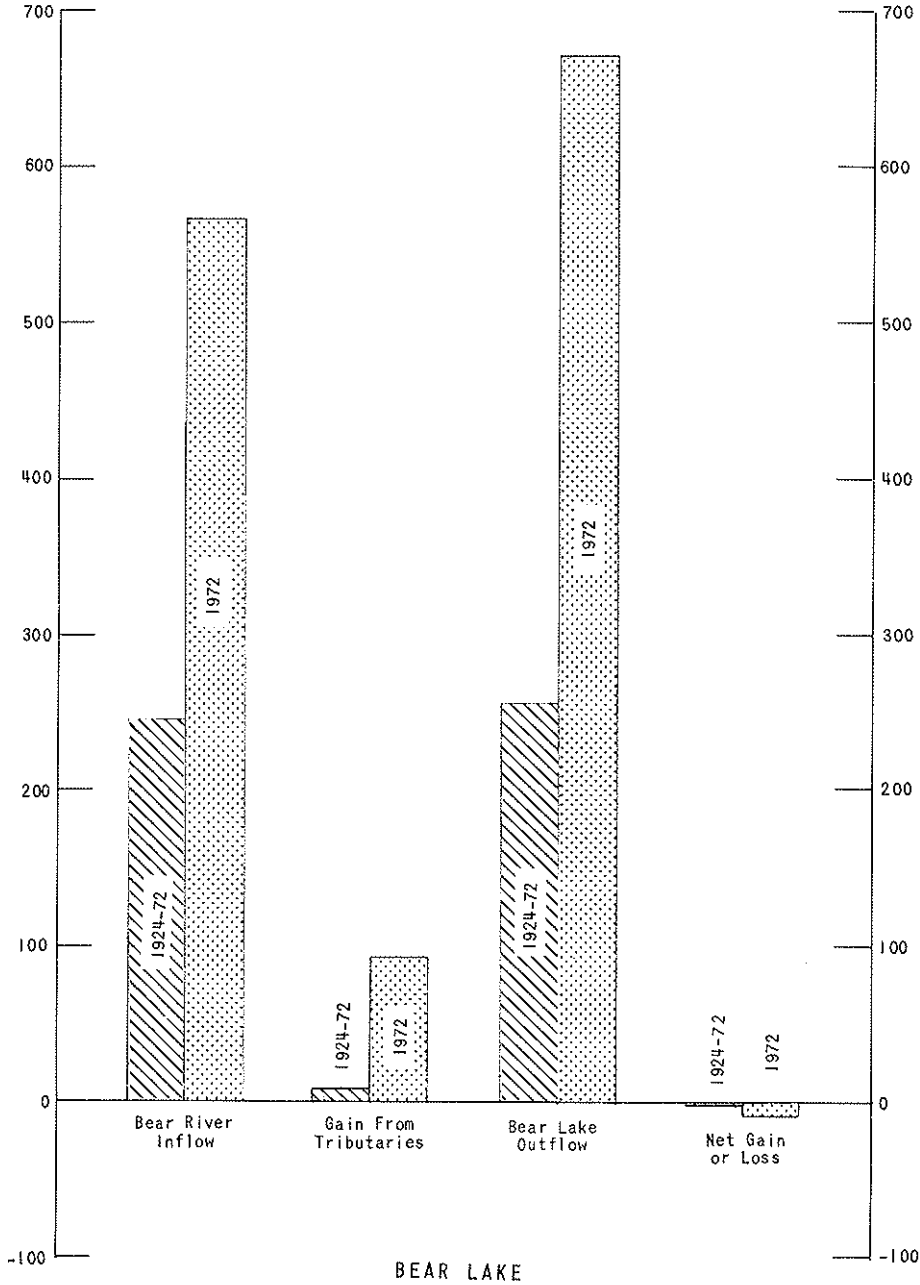

700
600
500
400
300
200
100
0
-100
1924-72
1972
Bear River Inflow
Gain From Tributaries
Bear Lake Outflow
Net Gain or Loss
BEAR LAKE
ANNUAL QUANTITIES, IN THOUSANDS OF ACRE-FEET

Figure 4

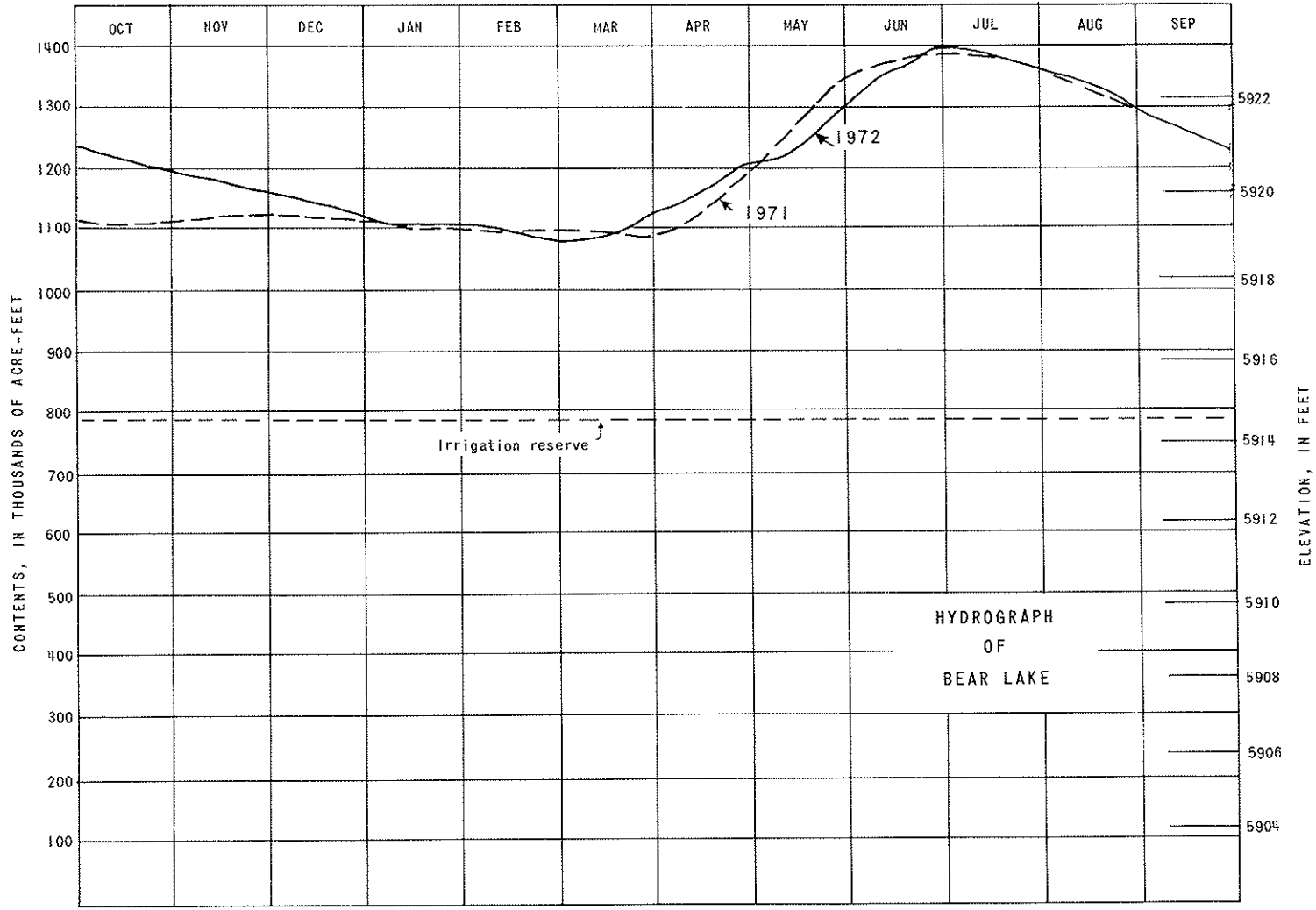

OCT
NOV
DEC
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
SEP
1400
1300
1200
1100
1000
900
800
700
600
500
400
300
200
100
CONTENTS, IN THOUSANDS OF ACRE-FEET
5922
5920
5918
5916
5914
5912
5910
5908
5906
5904
ELEVATION, IN FEET
1972
1971
Irrigation reserve
HYDROGRAPH
OF
BEAR LAKE

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 the 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

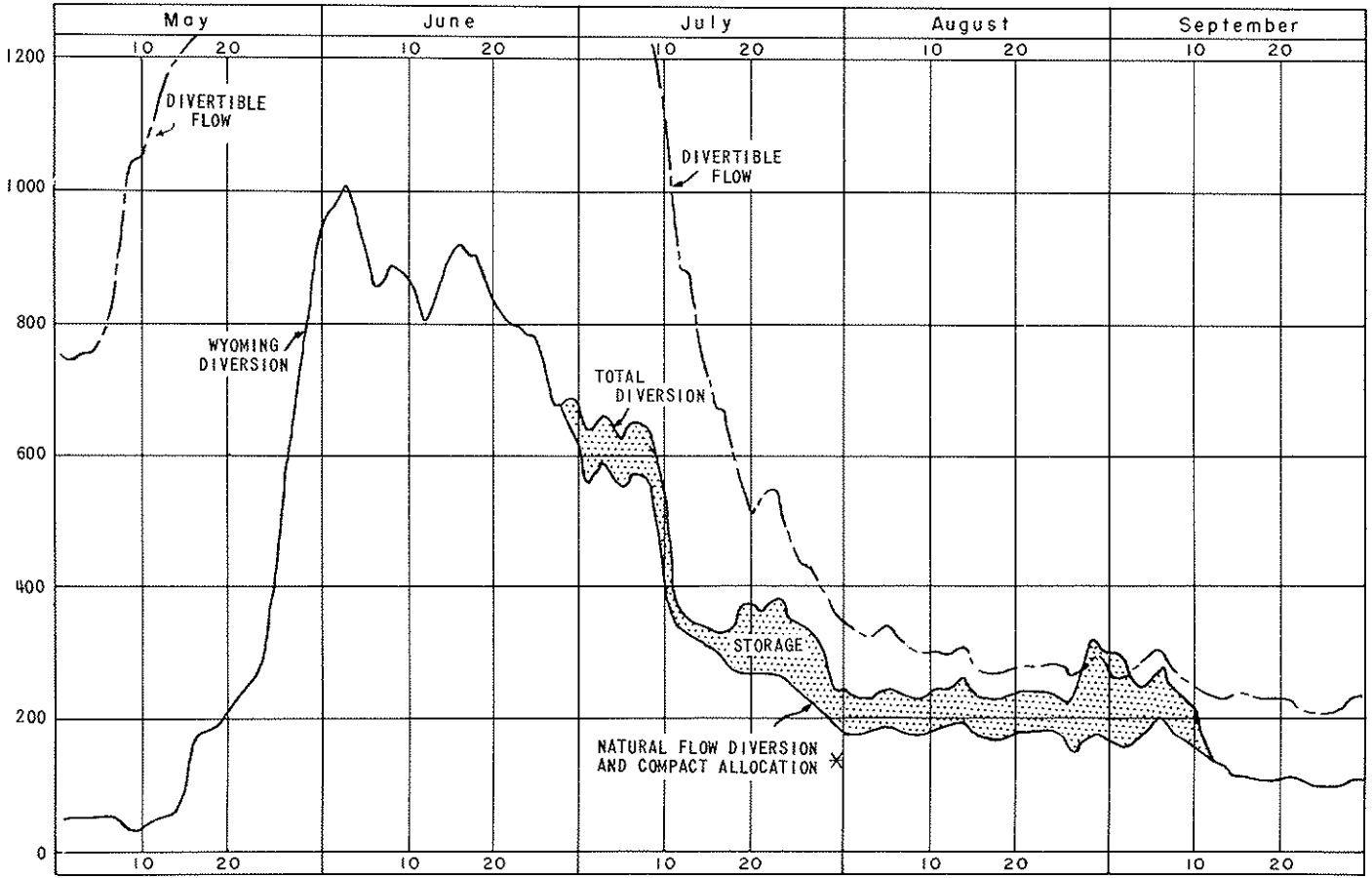
Interstate regulation in years of average or better water supply usually is not required in this division where meadow hay predominates. Article IV of the Compact makes available to other sections the unused allocation in any section. Thus, under present practice, after about July 10 Upper Wyoming Section allocation is increased by 9.6 percent as the Lower Wyoming Section ceases diverting and shortly thereafter is increased by most of Lower Utah's allocation as this section shuts down for haying operations. Except for the first few days in May, divertible flow in these years of good supply does not drop to the 1,250 cfs emergency condition until near mid-July when the two lower sections have ceased diverting for harvesting. Thereafter, Upper Wyoming Section could not conceivably divert in excess of allocation.

We should not infer from these conditions in years of good supply that direct-flow provisions of the Compact are meaningless in the Upper Division. Benefits from compact regulation in this division depend on available water supply and the period of regulation. Potentially, development of further storage would likely modify to some extent the present irrigation practice and increase the value of later supplies.

Tabulation of diversion data, tables 1-5, shows that divertible natural flow was below 1,250 cfs May 1-14 and after July 8. By Article IV then, the amount of natural flow diverted in each section during these periods of water emergency became essentially the allocation to that section because of unused allocation in both periods. Hydrographs of water diverted from direct or natural flow and from storage are shown in figures 6, 7, and 8 for the three principal sections in the Upper Division. About 16,000 acre-feet was released from Woodruff Narrows Reservoir (figure 9) and about 5,600 acre-feet from Whitney and Sulphur Creek Reservoirs.

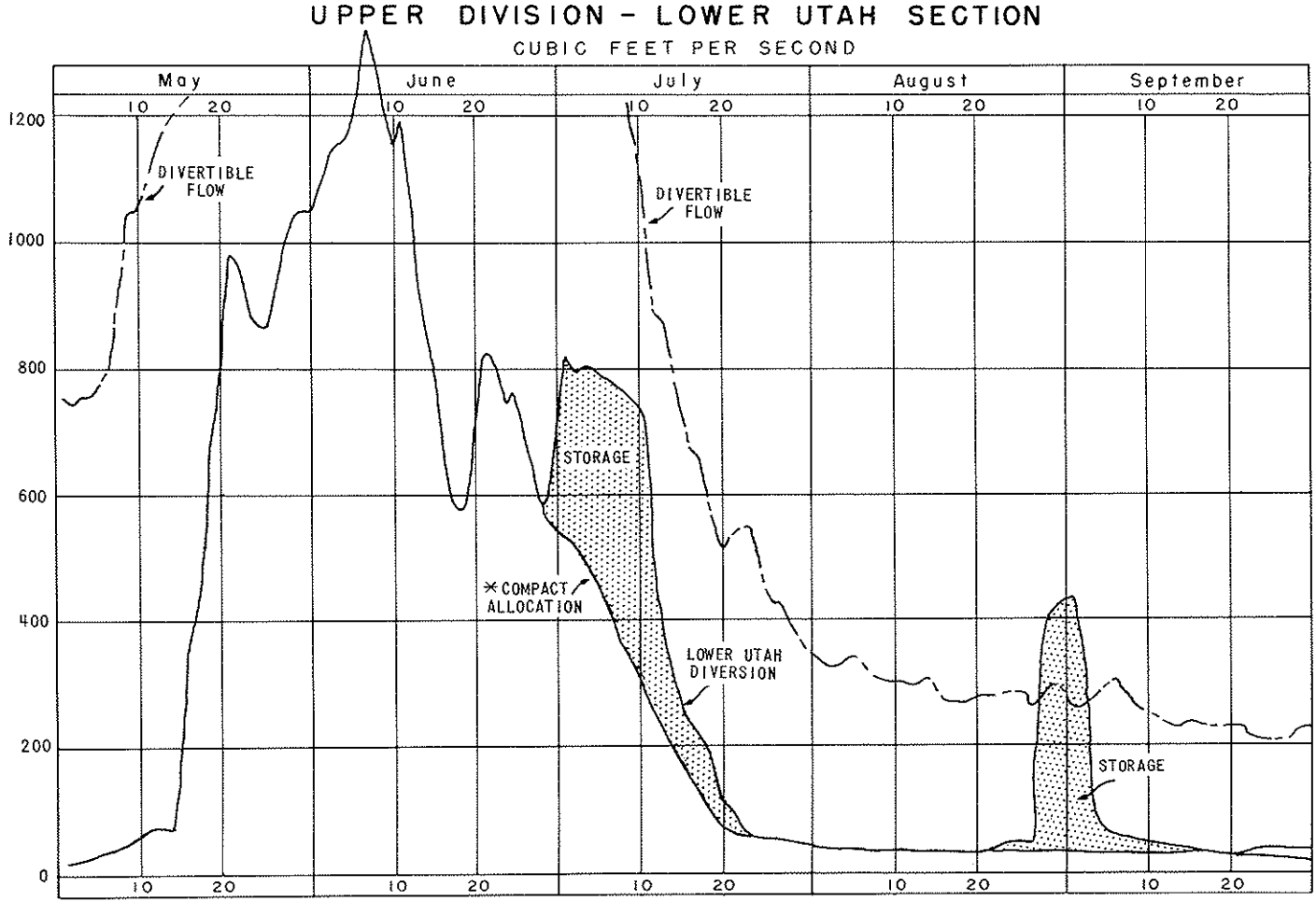
UPPER DIVISION — UPPER WYOMING SECTION

CUBIC FEET PER SECOND



* See footnote, Tables 3-5

Figure 6



* See footnote, Tables 3-5

Figure 7

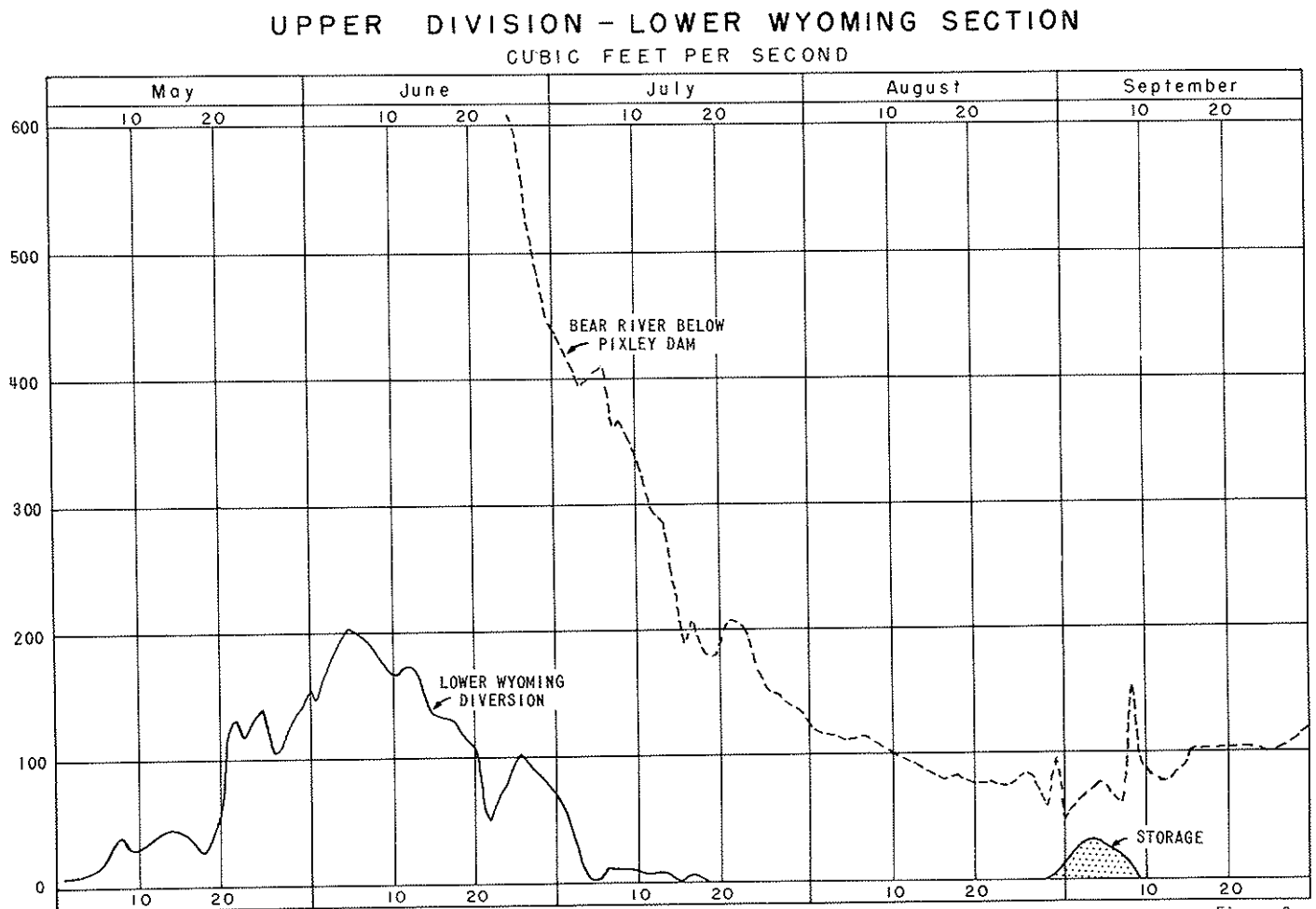

UPPER DIVISION - LOWER WYOMING SECTION
CUBIC FEET PER SECOND
May
June
July
August
September
10
20
600
500
400
300
200
100
0
BEAR RIVER BELOW PIXLEY DAM
LOWER WYOMING DIVERSION
STORAGE

Figure 8

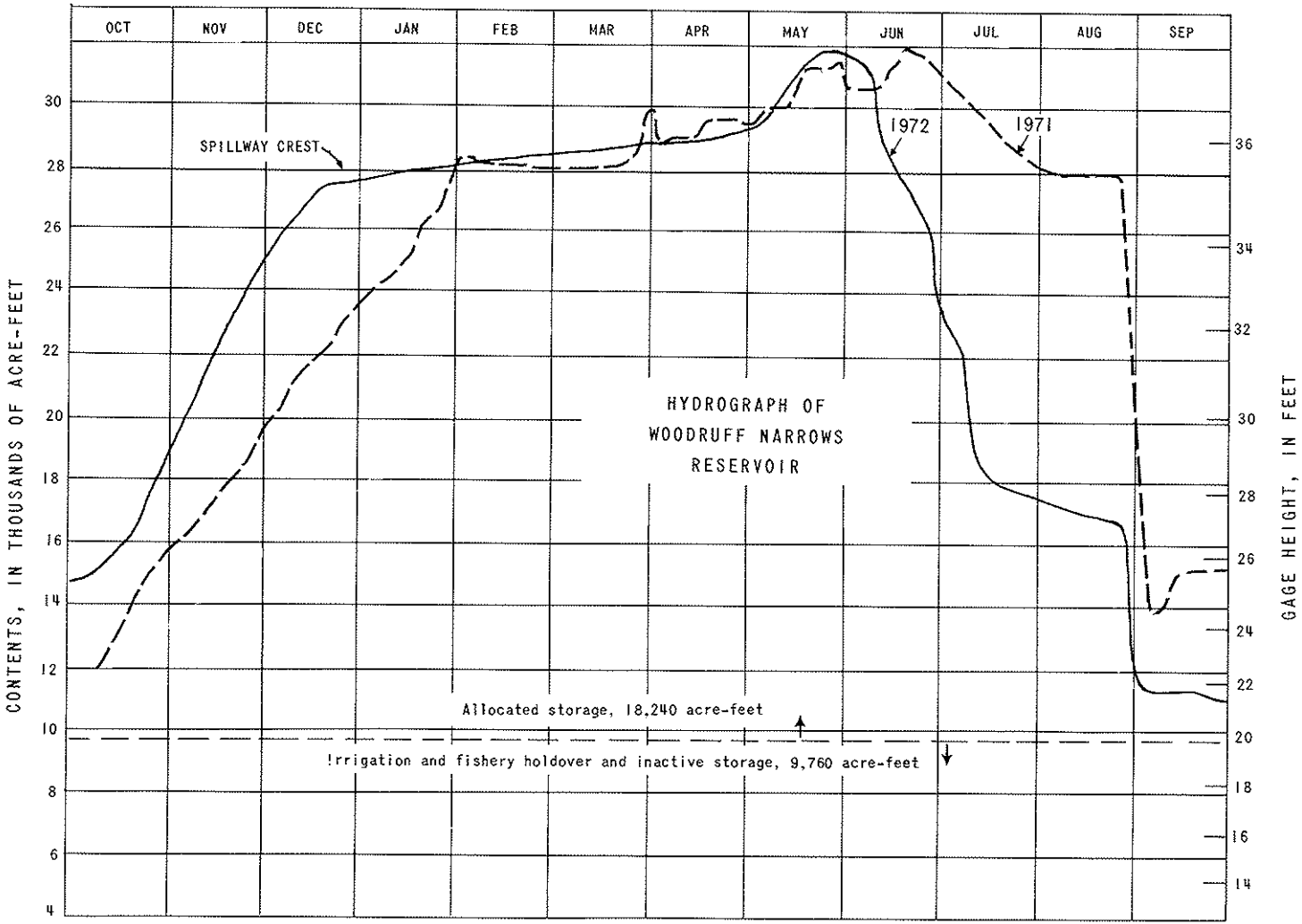

OCT
NOV
DEC
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
SEP
SPILLWAY CREST
1972
1971
HYDROGRAPH OF
WOODRUFF NARROWS
RESERVOIR
Allocated storage, 18,240 acre-feet
Irrigation and fishery holdover and inactive storage, 9,760 acre-feet
CONTENTS, IN THOUSANDS OF ACRE-FEET
GAGE HEIGHT, IN FEET
30
28
26
24
22
20
18
16
14
12
10
8
6
4
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.

Diversion and allocation hydrographs are shown for the Wyoming Section in figure 10 and for the Idaho Section in figure 11. Total divertible flow did not decrease below 870 cfs until July 26, while the flow passing the Border gage dropped below 350 cfs on August 1. Thus, a water emergency as defined above existed from July 26 through the balance of the season. Again, it is noted that in years of extremes, wet or dry, the interval of time between the two initiating criteria is greater, but the order of occurrence reverses between the wet and dry year. For instance, in dry years the flow passing Border usually initiates the water emergency.

Wyoming Section diversion rate remained below the compact allocation throughout the period of emergency, and total diversion in the section was only 70 percent of the allocation and 31 percent of the divertible flow. The actual diversion rate in Idaho (figure 11) was only 38 percent of the section allocation and less than half the flow in the Rainbow Inlet Canal which is considered an Idaho diversion.

Effectiveness of interstate regulation in the dry years of 1961 and 1966 is indicated in the following table by the small spread in diversion rate per acre in the two sections. In good years with less restriction, the Wyoming rate is much higher and reflects the greater requirement of gravelly soils.

Diversion in acre-feet per acre — May - September

	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972
Wyoming	2.16	5.82	5.06	4.48	4.96	3.32	4.78	4.02	4.24	4.25	4.39	4.74
Idaho	1.72	3.26	3.28	2.91	2.87	2.95	3.05	3.39	3.48	3.50	3.33	3.35

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.

No petitions were filed with the Commission or water emergencies declared in the Lower Division in 1972.

Interstate Tributaries

An aggrieved user on an interstate tributary may petition for declaration of water emergency and distribution of flow under direction of the Commission. Interstate arbitration on tributaries was not requested in 1972.

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 were filled to capacity in 1972. 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)	4,614 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)	4,200 ac-ft
Wyman Reservoir (Wyoming)	22 ac-ft
Massae Reservoir (Wyoming)	107 ac-ft
Woodruff Creek Reservoir (Utah)	2,000 ac-ft
Total Allocation	30,883 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. No development of new storage took place in 1972, so the irrigation reserve elevation remained at 5,914.61 feet with active storage content in the reserve of 794,900 acre-feet. (See figure 5.) This reserve corresponds to 30,000 acre-feet of additional storage allocation.

Utah Power & Light Company faced the problem in May and June of balancing Bear Lake inflow and outflow to store most or all of the peak flow and thereby avoid adding to the flood potential below Bear Lake. This required releases from the Lake prior to the upstream snowmelt peak but at a time when the river stage in Cache Valley

threatened several pumps that were badly needed to serve parched fields above and adjacent to the river. Rapid decline in flow from the Uintas after mid-June alleviated the problem, but the Lake reached a higher peak than had been anticipated.

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."

Copies of filings presented to the Commission in the 1972 report year cover pending and approved applications in the amount of 100.6 cfs that includes 79.1 cfs of ground water appropriation. Breakdown by States shows 50.9 cfs in Utah, 39.3 cfs in Idaho, and 10.4 cfs in Wyoming. A pending storage right of 2,400 acre-feet in Box Elder County, referred to in the 1971 report, has not been approved. A municipal storage right would appropriate 471 acre-feet from a spring in Cache County, Utah, and stockwater rights aggregating 26.4 acre-feet have been approved in Wyoming.

Even though the Commission has not at any time protested an application for appropriation, the possible effect in another State of new applications continues to be a problem of concern. Eventually, the effect on existing rights of new surface and ground water uses will need to be determined to implement the intent of Article X of the Compact.

REVIEW OF COMPACT PROVISIONS

Article XIII, Bear River Compact, requires that the Commission review provisions of the Compact at intervals not exceeding twenty years and may propose amendments to any such provision for consideration of the legislatures of the signatory States. Wyoming commissioners have urged such a review with particular emphasis on their recommendation for an increase in storage allocation to the basin above Bear Lake. Discussion on the subject has continued in the 1972 meetings of the Commission with emphasis on the responsibility of the Bear River Commission and the function of a Bear River Negotiating Commission consisting of members from each State appointed by the respective Governors. An important issue, in addition to the Wyoming recommendation, is the division of unconsumed river flows between Idaho and Utah in the Lower Division. This allocation may or may not be accomplished through modification of the Compact, but it has been the principal consideration of the Negotiating Commission whose membership includes but is not limited to members of the Bear River Commission.

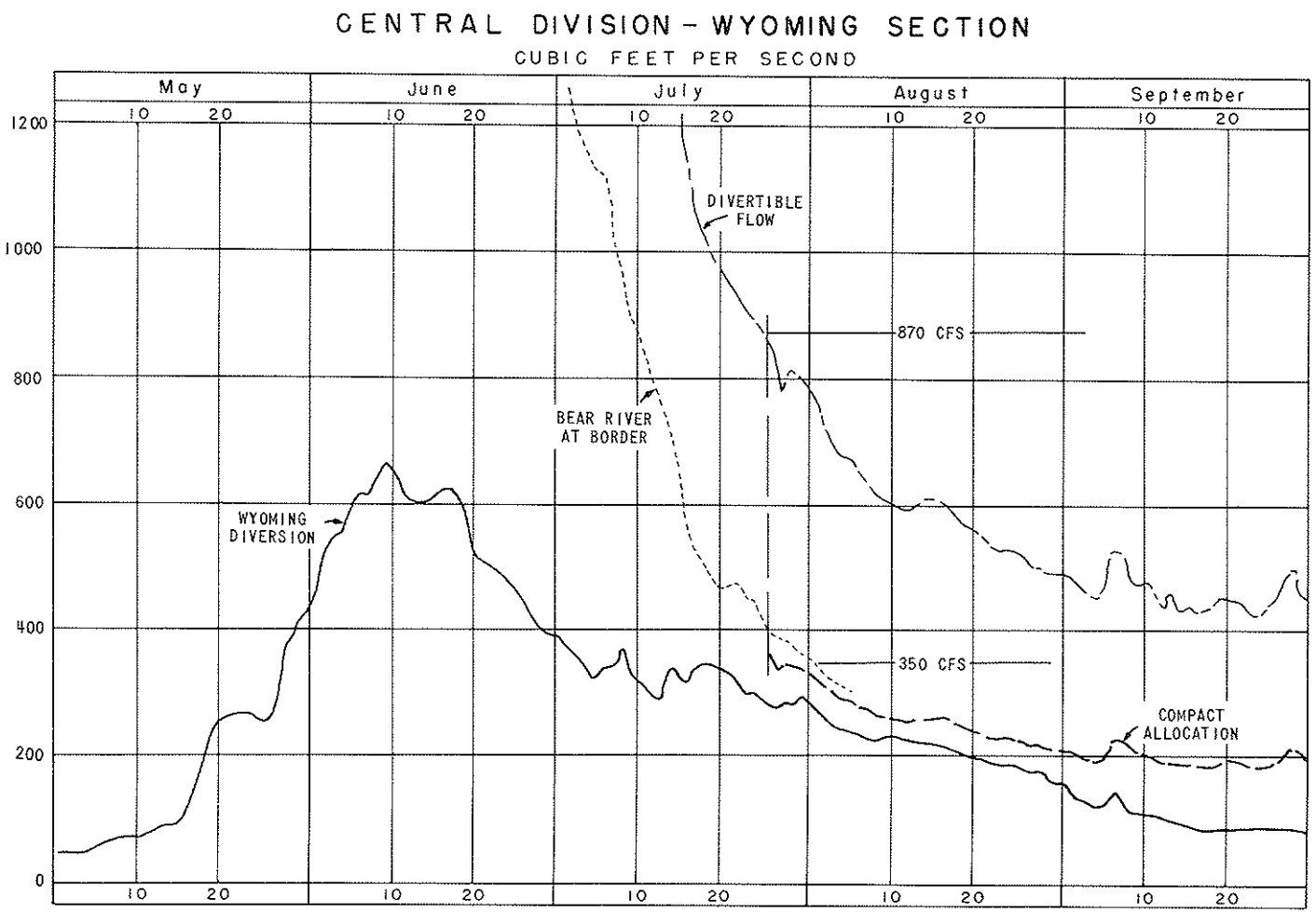

CENTRAL DIVISION - WYOMING SECTION
CUBIC FEET PER SECOND
May
June
July
August
September
10
20
1200
1000
800
600
400
200
0
DIVERTIBLE FLOW
870 CFS
BEAR RIVER AT BORDER
WYOMING DIVERSION
350 CFS
COMPACT ALLOCATION

Figure 10

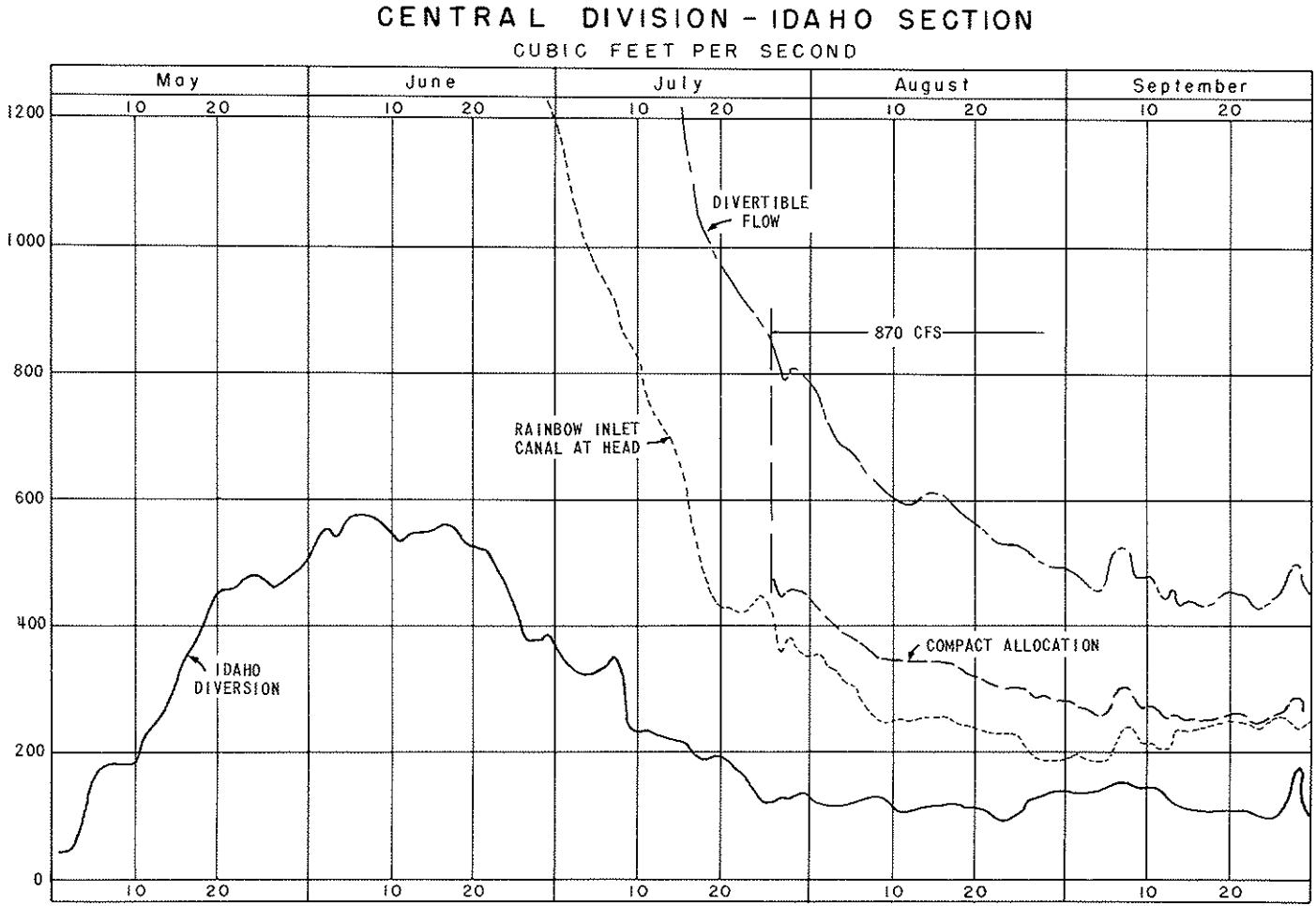

CENTRAL DIVISION - IDAHO SECTION
CUBIC FEET PER SECOND
May
June
July
August
September
10
20
1200
1000
800
600
400
200
0
DIVERTIBLE FLOW
870 CFS
RAINBOW INLET CANAL AT HEAD
IDAHO DIVERSION
COMPACT ALLOCATION

Figure 11

DAILY DISCHARGE IN CFS OF BEAR RIVER CANALS WITH COMPACT ALLOCATION IN UPPER DIVISION

MAY 1972	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	
UPPER UTAH - Hovarka E F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	10	10	11	11	11	12	12	12	12	111
UPPER WYOMING																																
Hilliard East 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	11	21	21	21	21	21	99
Lannon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27	41	42	44	47	48	49	298
Hilliard West Side	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	6	12	23	39	23	41	153
Bear	0	0	0	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	52	91	96	241
Tropic	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	8	8	21
Danielson	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	18	18	70
Pine Grove & Crown	0	0	0	0	0	0	0	0	0	3	3	3	3	3	5	5	5	5	5	6	5	6	6	6	6	6	27	44	44	48	73	318
McGraw & Big Bend	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	16	32	31	47	30	179
Homer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	3	3	3	4	5	5	5	5	5	5	49
Lewis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lewis & Blanchard	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Myers 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	0	0	0
Hare	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Coffman 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Coffman 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	0	0	4
Knoder	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Myers 1	0	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	2	2	2	2	9
Myers Irrigation	0	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	2	5	7	5	19
Booth	0	0	0	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	3	8	1	15
Anel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cornelison	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	4	4	5	5	5	5	5	5	48
Evanston Water Supply	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Knight 1 & 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	0	0	0
State Hospital	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	11	12	13	14	14	77
Evanston Water	0	0	0	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	3	21	31	66
Barton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Faulkner	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	60
Rocky Rin-Blyth	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	6	12	19	17	15	15	19	24	26	26	27	27	27	28	28	322
Bennett 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
Bruce-Barton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	64
A.W. Sims	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	52
Crompton 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	80
Fearne Ditch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	32
Saxton Turner	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saxton Irrigation	0	0	0	0	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	17	17	38
John Sims-So. Pacific	4	4	4	4	4	4	4	4	4	4	3	3	3	4	4	4	4	4	4	4	5	6	7	6	12	16	42	42	42	36	25	318
Ramsey	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	48	36	20	20	20	20	20	20	20	20	16	281
Alley	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	52
Sims-Blight-Turner	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bowns-Russell	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	48
Turner	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chapman Canal at HC	41	40	40	42	43	43	44	35	25	24	24	23	23	23	51	79	77	70	63	56	52	66	90	90	93	95	97	97	99	98	98	1,839
Bartlett-Upper Morris	0	0	0	0	0	0	0	0	0	0	0	1	2	3	3	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	19	189
Lower Morris	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	3	2	2	1	0	2	0	0	0	0	3	5	4	4	4	37
Bowns and Bruce	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	28	25	27	28	131
Tunnel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	2	25	33	36	36	28	43	24	265
Fowlers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dozer Island	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	5	5	5	5	5	5	5	5	5	5	6	7	8	9	9	98
Blight-Irrigation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	64
Francis-Lee	3	3	3	3	3	4	4	4	4	4	5	5	5	5	5	5	5	5	5	6	7	10	13	17	25	35	36	39	42	42	42	395
Bear River	0	0	0	0	0	0	0	0	0	0	5	10	15	20	20	21	22	23	24	25	25	25	23	22	55	82	86	89	92	96	93	879
Total Upper Wyoming	48	47	47	49	50	51	52	42	33	37	43	48	52	58	93	129	182	183	186	205	230	246	264	280	388	465	591	618	775	880	952	7,425
LOWER UTAH																																
Neville	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	9	10	10	10	9	8	7	7	6	5	6	7	7	7	7	7	126
Booth	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	2	3	8	21	29	11	4	4	4	6	4	4	5	6	8	127
Rees Land & Livestock	1	1	1	1	1	1	1	1	1	1	1	1	1	1	21	46	50	53	56	56	51	53	51	49	49	51	53	54	55	60	60	882
Crawford-Thompson	1	1	1	1	1	1	1	1	1	1	1	1	1	1	63	163	175	189	177	172	173	172	165	166	165	161	167	174	177	180	169	2,820
Randolph Woodruff	5	5	5	6	9	14	17	20	27	39	40	39	37	37	39	104	120	166	223	251	279	271	227	209	249	281	306	320	329	340	366	4,350
Dykers	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	27	52	58	56	41	33	27	23	27	31	35	37	43	495
Randolph Sage Creek	10	11	11	12	14	16	17	18	19	19	19	20	20	20	22	72	23	52	111	110	102	108	154	155	146	141	144	149	154	159	161	2,151
McMinn	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	2	2	13	61	55	57	57	15	0	0	0	0	0	0	0	0	286
Enberg	0	0	0	0	0	0	0	0	0	1	5	4	2	0	15	16	16	16	16	17	17	17	18	18	14	15	15	15	16	17	17	271
B. Q. West Side	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	1	2	67	218	223	234	229	205	186	208	240	262	250	246	2,591
Total Lower Utah	20	21	21	23	28	35	40	44	53	65	68	73	70	68	156	365	411	528	681	790	983	973	921	870	866	866	928	1001	1039	1051	1043	14,099
LOWER WYOMING																																
B. Q. West Slough	0	0	0	0	1	5	12	16	2	0	0	1	2	2	2	1	0	0	0	0	3	27	19	18	18	18	20	22	19	14	10	231
B. Q. East Side	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	74	59	46	50	49	41	39	56	54	53	72	603
McFarland	4	4	4	5	5	6	8	9	0	0	0	0	0	0	0	0	0	0	0	0	11	9	11	11	11	8	6	7	8	11	15	153
Pixley	6	6	6	7	7	9	12	18	30	31	34	39	42	46	45	40	32	28	42	42	32	41	43	52	63	59	61	25	55	62	59	1,054
Total Lower Wyoming	10	10	10	12	13	19	32	43	32	31	34	40	44	48	47	41	32	28	42	42	120	136	119	131	141	126	106	110	136	140	156	2,041
Bear below Pixley Dam	672	660	668	670	675	689	732	806	929	915	945	984	1010	1020	1010	975	912	819	832	806	742	806	819	829	848	822	732	575	555	580	579	24,626
Divertible Flow	750	738	746	754	766	794	856	935	1047	1048	1090	1153	1176	1194	1306	1555	1537	1558	1741	1853	2075	2169	2133	2129	2254	2290	2368	2374	2517	2673	2742	48,302

Note: Divertible Flow is the sum of all diversions plus Bear R. below Pixley 9am minum storage water diverted.

Table 1

DAILY DISCHARGE IN CFS OF BEAR RIVER CANALS WITH COMPACT ALLOCATION IN UPPER DIVISION

JUNE 1972	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	
UPPER UTAH - Hovarka E F	12	12	12	12	12	12	12	14	14	14	14	13	13	13	13	13	13	13	13	12	12	11	11	11	11	11	10	10	10	10		363
UPPER WYOMING																																
Hilliard East Fork	22	22	22	21	12	2	2	1	1	1	1	6	12	12	12	12	12	11	11	2	17	26	28	34	28	20	21	27	27	29		454
Sannon	50	44	41	42	41	38	34	35	37	36	35	33	32	30	29	29	29	29	28	27	26	25	25	23	22	20	19	19	18	17		913
Hilliard West Side	46	36	34	34	12	1	10	30	28	27	26	26	29	35	34	34	34	34	33	32	31	31	31	30	29	28	28	27	30	32		872
Bear	93	95	137	95	28	19	29	45	38	36	37	34	50	91	102	100	96	95	89	87	98	100	100	93	86	82	75	75	75	75		2,255
Tropic	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	6	6	6		207
Danielson	35	35	27	15	16	16	17	18	15	9	9	8	8	8	8	8	8	8	8	8	11	19	16	18	15	12	9	8	8	7		407
Pine Grove & Crown	78	76	65	63	60	57	58	57	54	50	49	47	50	52	49	46	44	44	40	38	35	33	32	33	33	31	29	28	27	26		1,384
McGraw & Big Bend	23	28	37	38	21	28	37	37	30	28	28	32	41	38	41	43	42	42	38	36	35	34	33	29	26	23	20	20	18	19		945
Homer	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	5	4	4	4		139
Lewis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	13	13	13	13	13		78
Lewis & Blanchard	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2	2	2	2	2		14
Myers 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	0		0
Hare	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4		68
Coffman 1	4	4	4	3	3	3	3	3	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0		49
Coffman 2	3	3	3	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0		39
Knoder	1	1	2	2	3	3	1	1	1	1	1	1	0	0	0	0	1	2	3	2	2	1	1	2	4	4	3	3	3	3		52
Myers 1	6	6	5	8	15	7	8	7	8	6	6	6	6	10	9	8	8	9	8	7	6	5	5	5	6	5	6	3	3	3		200
Myers Irrigation	4	13	10	8	0	0	0	0	0	0	0	0	0	0	0	0	0	5	6	5	5	6	4	4	4	4	3	2	0	0		83
Booth	20	20	19	19	18	16	18	22	21	19	19	17	24	22	19	20	20	20	17	14	11	9	6	8	19	17	13	6	8	5		488
Abel	13	13	13	13	13	12	12	12	12	12	11	11	11	11	11	10	10	10	10	10	9	9	9	8	8	7	7	6	6	5		304
Cornelison	5	5	5	5	5	6	5	5	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	3	3	3	3		125
Evanston Water Supply	11	11	11	11	11	11	11	10	9	9	8	8	7	7	6	6	5	5	4	4	3	3	2	2	1	1	0	1	2	3		183
Knight 1 & 2	0	3	10	10	6	0	1	0	0	0	0	0	1	2	5	14	14	14	14	13	13	13	12	12	12	12	16	18	18	18		251
State Hospital	16	17	17	15	14	13	11	9	7	5	4	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		134
Evanston Water	34	29	20	21	19	21	23	5	10	24	34	36	34	29	32	42	34	29	26	28	38	37	39	39	37	37	32	29	27	27		868
Barton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
Faulkner	4	4	4	4	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	46	44	42	40	37	35	32	30	27	23		1,125
Rocky Mtn-Blyth	28	28	28	27	29	29	20	12	12	11	8	8	7	7	7	6	6	5	5	5	4	7	27	26	24	24	19	16	14	9		458
Bennett Ditch	0	0	0	0	0	0	0	0	0	0	4	4	4	4	3	3	3	3	3	2	2	2	2	2	2	2	2	2	2	2		53
Bruce-Barton	4	4	4	4	5	5	5	5	5	5	5	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4		128
A. K. Sims	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	5	5	5	5	5		125
Crompton 2	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	4	4		137
Fearne Ditch	3	3	3	3	3	3	3	3	3	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1		60
Saxton Turner	0	0	0	0	0	0	0	0	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4		88
Saxton Irrigation	17	16	16	16	17	16	15	14	14	14	13	12	11	11	9	8	8	8	7	6	4	3	0	0	3	5	6	8	8	8		293
John Sims-So. Pacific	23	20	17	15	16	19	28	30	25	42	70	41	23	23	29	31	29	27	24	23	22	21	11	10	11	11	13	14	13	12		693
Ramsey	19	20	20	20	19	11	9	9	11	11	11	11	14	14	12	12	11	19	27	23	11	0	17	16	15	15	13	12	11	10		423
Almy	4	4	4	4	4	3	2	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	3	2	2	2	2	2	2	2		67
Sims-Blight-Turner	0	0	0	0	0	0	0	0	0	0	10	9	9	9	8	8	8	8	8	7	7	7	7	6	6	5	4	3	2	1		132
Bowns-Russell	4	4	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	6	6	6	6	6	6		178
Turner	25	24	23	22	21	20	19	18	18	18	17	17	16	16	15	15	14	13	12	11	10	9	8	7	7	6	6	5	5	4		421
Chapman Canal at Hd	99	107	116	122	131	102	102	105	110	96	60	40	48	64	87	107	113	113	109	105	104	104	99	105	115	110	105	105	106	101		2,990
Bartlett-Upper Morris	20	19	18	17	16	14	13	12	12	12	11	11	11	11	11	10	10	10	9	9	9	8	6	7	6	5	4	3	2	1		309
Lower Morris	7	6	5	6	13	13	11	9	9	6	4	3	2	6	8	7	6	6	7	6	5	6	8	7	6	6	5	4	3	2		192
Bowns and Bruce	29	31	32	33	37	42	38	39	39	38	35	35	31	28	25	23	24	24	21	18	15	13	12	12	10	10	9	8	7	7		725
Tunnel	44	45	46	46	48	49	48	48	48	48	48	48	45	42	45	49	48	41	41	47	44	41	37	35	32	31	28	24	22	20		1,238
Fowkes	0	0	0	0	0	18	18	18	18	18	17	17	15	13	12	10	9	6	6	4	2	3	0	0	0	0	0	0	0	0		204
Upper Island	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	11	12	13	14	15		315
Blight-Irrigation	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	6	7	8	9	10		141
Francis-Lee	42	41	42	42	42	42	38	34	31	31	31	33	35	35	45	46	44	45	44	44	43	39	40	40	40	39	39	38	41	42		1,188
Bear River	102	105	108	111	113	124	122	144	152	148	137	136	134	124	136	103	101	102	94	97	91	84	79	71	69	64	34	54	73	84		3,076
Total Upper Wyoming	973	977	1009	957	901	852	861	888	880	864	852	801	820	866	899	920	901	898	861	829	821	801	802	786	787	748	676	679	687	674		25,270
Storage in above total																												26	48	60		134
LOWER UTAH																																
Neville	7	7	7	6	7	11	11	11	10	10	10	10	10	9	9	8	8	8	7	7	7	7	7	5	5	4	3	2	3	5		221
Booth	11	25	39	67	81	121	155	165	165	157	150	105	59	28	5	3	2	2	2	2	2	2	2	1	1	1	1	1	1	2		1,358
Rees Land & Livestock	63	54	65	66	66	69	71	71	71	71	71	71	69	71	26	74	70	70	69	66	62	57	52	47	47	40	37	11	5	5		1,747
Crawford-Thompson	163	168	171	176	176	180	190	201	211	202	201	188	177	170	162	154	144	145	144	145	151	155	135	124	125	111	105	99	114	131		4,718
Randolph Woodruff	348	355	359	347	340	345	345	323	308	283	269	259	233	226	270	290	256	257	263	254	226	234	276	267	281	256	235	219	233	306		8,463
Dykens	48	54	58	51	63	64	65	67	67	67	67	67	26	9	6	7	6	5	3	2	2	1	1	1	1	1	1	1	1	1		825
Randolph Sage Creek	164	176	184	183	182	184	186	169	139	137	133	129	125	131	141	107	55	55	54	53	98	123	117	114	118	113	104	103	101	119		3,797
McMinn	0	2	3	2	21	70	73	50	2	1	1	2	3	3	5	7	8	5	4	4	8	19	22	17	17	17	12	3	3	5		389
Enberg	17	17	18	19	19	19	19	19	18	18	18	17	17	15	13	11	9	8	8	5	1	0	0	0	0	0	0	0	0	0		305
B. Q. West Side	247	243	245	228	218	219	224	234	270	196	273	261	249	238	114	37	25	19	31	164	261	224	187	166	166	165	152	144	134	173		5,508
Total Lower Utah	1068	1111	1150	1155	1173	1282	1339	1310	1261	1142	1193	1109	968	900	803	698	583	574	585	702	818	822	799	742	761	708	650	583	595	747		27,331
Storage in above total																													32	215		247
LOWER WYOMING																																
B. Q. West Slough	9	9	15	26	47	45	48	31	25	27	31	37	32	39	41	39	39	39	32	22	9	11	15	20	23	23	22	20	17	13		806
B. Q. East Side	61	61	72	72	61	61	56	63	56	46	43	46	46	13	0	0	0	0	0	0	0	0	0	17	50	54	46	52	50	53		1,079
McFarland	16	15	15	16	13	10	11	12	14	11	10	11	11	11	12	12	12	11	6	14	0	1	3	1	5	9	12	10	8	5		299
Pixley	62	77	88	86	82	82	78	78	80	82	85	82	82	82	82	82	82	80	78	73	56	38	53	39	20	16	9	6	4	3		1,847
Total Lower Wyoming	149	162	190	200	203	198	193	184	175	166	169	176	171	145	135	133	133	130	118	109	65	50	71	77	98	102	89	88	79	74		4,031
Bear below Pixley Dam	592	682	783	861	1060	1250	1330	1310	1310	1340	1490	1630	1680	1680	1670	1630	1580	1540	1480	1400	1230	944	806	694	610	581	522	491	451	435		33,062
Divertible flow	2792	2944	3144	3185	3349	3594	3735	3706	3640	3526	3718	3729	3652	3604	3520	3394	3210	3155	3057	3052	2946	2626	2489	2310	2267	2150	1947	1825	1742	1665		89,676

Table 2

Note: Divertible Flow is the sum of all diversions plus Bear R. below Pixley Dam minus storage water diverted.
Each State section allocation is equal to the amount diverted minus storage water diverted in the section. (See Article IV, 1, e.)

DAILY DISCHARGE IN CFS OF BEAR RIVER CANALS WITH COMPACT ALLOCATION IN UPPER DIVISION

JULY 1972	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	
UPPER UTAH - Hovarka E F	10	10	10	10	10	9	9	9	11	14	14	14	14	14	14	13	13	12	12	12	11	10	10	10	10	10	10	10	10	6	0	331
UPPER WYO - Hilliard E F	34	34	32	30	30	28	27	26	25	13	5	3	0	0	0	1	1	4	14	22	24	21	19	17	15	16	17	13	7	0	1	479
Lannon	16	16	15	14	13	12	11	15	17	11	5	4	1	1	2	2	2	8	27	22	21	22	22	21	21	21	21	20	18	14	14	429
Hilliard West Side	33	30	29	24	23	24	22	23	21	19	16	16	15	15	15	15	14	14	14	14	21	21	21	21	20	20	21	19	2	2	2	563
Bear	72	106	138	126	124	118	116	116	110	95	47	22	28	35	35	34	27	28	34	29	30	42	66	63	61	61	61	59	38	21	23	1,953
Tropic	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5	5	5	5	5	5	5	5	5	5	5	175
Danielson	6	5	3	3	4	12	12	11	11	10	7	1	1	1	1	1	1	3	16	15	12	12	10	10	9	9	9	9	9	10	10	233
Pine Grove & Crown	28	30	26	23	21	19	22	26	23	25	30	29	28	28	28	27	27	26	28	27	25	24	20	19	18	18	17	17	17	17	17	732
McGraw & Big Bend	18	18	20	27	25	22	20	17	14	18	11	4	3	14	20	18	17	17	20	20	24	18	11	10	9	9	10	8	9	10	10	671
Homer	3	3	3	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	57
Lewis	13	13	13	12	12	12	12	12	11	11	11	11	10	10	10	10	10	10	9	9	9	9	8	8	8	8	8	8	8	8	8	310
Lewis & Blanchard	3	3	3	3	3	3	3	3	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	83
Myers 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	11	10	10	10	10	10	10	10	10	9	9	9	9	9	148
Hare	4	4	3	3	3	3	3	3	3	3	3	3	3	3	3	4	5	8	8	8	3	3	3	3	3	3	3	3	3	3	3	112
Coffman 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Coffman 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	0	0	0
Knoder	2	1	0	0	0	3	5	5	5	5	6	6	3	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	57
Myers 1	5	3	1	0	0	0	5	5	5	5	6	6	5	5	4	4	6	10	10	8	8	8	8	8	8	8	8	8	7	8	8	164
Myers Irrigation	0	2	5	3	3	3	2	6	10	10	10	9	9	5	3	4	4	4	5	5	5	5	4	2	2	2	3	2	2	2	2	133
Booth	3	0	0	0	0	11	15	16	16	15	18	21	19	17	18	17	16	13	15	19	21	20	16	20	20	18	18	17	13	16	17	445
Anel	5	5	5	4	4	4	4	4	3	3	3	3	3	2	2	2	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	131
Cornelison	4	4	5	5	6	6	5	5	4	4	2	3	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	122
Evanston Water Supply	5	6	6	8	11	12	13	14	15	16	17	18	19	16	14	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	385
Knight 1 & 2	18	17	17	16	16	15	14	12	10	11	14	18	18	7	7	7	6	6	5	7	6	5	5	5	5	5	5	5	4	4	5	292
State Hospital	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	68
Evanston Water	13	31	40	36	35	32	28	23	17	16	20	31	13	13	13	13	14	14	14	13	13	13	13	13	12	14	16	15	15	14	16	561
Barton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Faulkner	15	10	5	4	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40
Rocky Mtn-Blyth	8	4	4	3	2	3	4	5	7	0	3	38	21	6	10	16	13	10	8	6	4	3	3	3	3	3	3	3	3	3	3	194
Bennett Ditch	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	2
Bruce-Barton	4	4	5	5	6	4	4	4	4	4	4	4	3	3	3	3	3	3	2	2	1	1	0	0	0	0	0	0	0	0	0	78
A.K. Sims	5	5	5	5	5	5	5	5	4	4	3	3	3	3	3	2	2	2	2	1	1	1	0	0	0	0	0	0	0	0	0	72
Crompton 2	4	4	4	4	4	4	4	4	3	3	3	3	3	3	3	2	2	2	2	1	1	1	0	0	0	0	0	0	0	0	0	63
Fearne 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
Saxton Turner	4	4	4	4	4	4	4	3	3	3	2	2	2	2	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	50
Saxton Irrigation	10	12	10	8	9	10	8	7	6	3	3	3	4	4	3	4	3	3	4	7	8	10	10	7	5	2	4	5	5	5	8	193
John Sims-So. Pacific	10	7	4	1	1	9	36	31	24	22	16	7	6	6	6	6	9	9	9	9	9	9	9	9	9	8	8	8	8	8	8	282
Ramsey	11	10	9	7	11	33	42	35	28	25	15	4	2	5	10	10	9	9	9	9	9	9	9	9	9	8	8	8	8	8	8	503
Almy	2	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	2	2	2	2	2	2	2	0	0	0	25
Sims-Blight-Turner	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bowns-Russell	6	6	6	5	5	5	5	4	4	3	3	2	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	67
Turner	4	3	3	2	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Chapman Canal at Hd	93	87	78	71	66	57	53	50	45	30	25	22	19	21	50	55	49	44	43	46	47	51	60	66	62	51	44	38	33	29	32	33	35	1,470
Bartlett-Upper Morris	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lower Morris	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2	2	2	2	2	2	0	0	0	8
Bowns and Bruce	6	6	5	5	5	5	4	4	4	3	3	3	3	3	3	2	2	2	2	2	0	0	0	0	0	0	0	0	0	0	0	71
Tunnel	17	14	11	10	14	22	18	17	17	14	14	10	10	15	15	15	13	12	11	10	12	17	16	15	13	13	13	11	11	11	11	422
Fowkes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Upper Island	16	17	17	16	13	10	8	6	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	109
Slight-Irrigation	11	11	11	9	8	7	6	5	4	3	3	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	84
Francis-Lee	41	41	44	46	46	46	46	48	50	51	40	32	32	28	25	25	22	21	12	8	2	1	2	2	1	1	1	1	1	1	0	718
Bear River	77	76	76	76	76	76	75	75	73	41	14	12	12	13	13	13	13	13	13	6	6	5	5	5	5	5	5	5	5	5	5	896
Total Upper Wyoming	633	659	666	643	627	656	655	639	592	510	390	357	350	342	334	330	327	337	376	368	360	378	385	362	339	337	336	313	225	241	243	13,359
Storage in above total	52	51	53	56	56	56	55	58	59	55	28	33	40	15	24	24	28	26	17	105	114	105	98	98	98	96	94	94	65	47	47	2,018
LOWER UTAH - Neville	4	4	4	4	4	3	3	3	3	3	2	0	0	0	1	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	42
Booth	2	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	0	0	12
Rees Land & Livestock	5	5	5	4	4	4	3	3	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42
Crawford-Thompson	115	112	112	112	112	111	111	111	110	110	53	42	34	30	29	28	29	29	29	31	30	12	8	6	5	5	4	3	2	2	2	1,569
Randolph Woodruff	279	268	271	267	266	261	259	257	250	251	245	86	53	44	37	21	21	30	31	36	36	18	17	17	16	16	17	17	17	18	14	3,434
Dykens	4	12	12	11	12	12	12	12	11	10	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	118
Randolph Sage Creek	116	111	111	111	109	105	102	100	96	94	90	73	59	62	49	48	34	12	22	26	26	25	24	23	21	20	19	19	18	18	19	1,756
McMinn	5	3	3	2	2	12	12	13	13	12	13	11	7	3	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	124
Enberg	0	0	5	7	7	7	7	7	7	2	5	8	8	7	7	7	7	7	7	7	6	6	6	6	6	6	6	6	6	6	6	142
B. Q. West Side	280	280	279	280	279	270	270	268	262	252	255	248	204	185	150	131	124	123	77	3	2	1	1	1	1	1	1	1	1	1	1	4,217
Total Lower Utah	810	796	799	801	791	783	778	768	746	740	716	467	362	318	271	237	218	204	167	103	101	63	57	54	49	48	47	44	39	40	37	11,456
Storage in above total	290	266	265	312	339	364	395	416	419	440	440	226	110	110	90	80	75	75	59	59	30	7	6	8	11	13	14	15	16	16	9	4,996
LOWER WYOMING																																
B. Q. West Slough	11	12	10	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38
B. Q. East Side	36	31	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	88
McFarland	4	0	0	0	0	0	0	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
Pixley	11	1	0	0	1	14	12	12	12	10	7	7	10	4	1	6	7	1	0	0	0	0	0	0	0	0	0	0	0	0	0	105
Total Lower Wyoming	62	44	21	3	2	14	12	12	12	10	7	7	10	4	1	6	7	1	0	0	0	0	0	0	0	0	0	0	0	0	0	235
Bear below Pixley Dam	427	413	396	398	405	411	361	364	357	338	320	296	291	256	208	187	210	185	179	185	208	207	204	175	159	150	150	162	140	138	120	7,974
Divertible Flow	1600	1605	1552	1487	1440	1453	1365	1318	1240	1117	979	682	872	785	714	669	672	568	558	504	536	546	552	495	448	436	436	490	382	366	344	26,339

Table 3

Note: Divertible Flow is the sum of all diversions plus Bear R. below Pixley Dam minus storage water diverted.
Each State section allocation is equal to the amount diverted minus storage water diverted in the section. (See Article IV, 1, c.)

DAILY DISCHARGE IN CFS OF BEAR RIVER CANALS WITH COMPACT ALLOCATION IN UPPER DIVISION

AUGUST 1972	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	
UPPER UTAH - Hoyarke E F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UPPER WYO - Hilliard E F	1	1	0	8	20	18	17	16	15	14	14	16	16	16	15	8	1	1	1	1	1	1	1	1	1	1	1	6	14	13	12	251
Lannon	13	13	8	2	3	3	3	2	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	11	10	10	90
Hilliard West Side	0	0	0	0	6	14	13	13	5	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	18	18	18	18	145
Bear	21	21	21	20	20	19	19	18	16	12	8	8	8	8	8	8	8	8	8	7	7	7	7	7	7	7	7	16	33	36	34	432
Tropic	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	5	5	5	4	143
Danielson	10	10	9	10	7	6	5	5	6	7	8	8	8	8	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	138
Pine Grove & Crown	17	17	16	16	14	11	11	10	11	13	14	13	14	14	8	3	3	2	2	11	10	9	8	8	8	8	8	8	8	8	8	311
McGraw & Big Bend	9	9	9	9	5	3	2	1	1	8	8	8	8	9	9	9	9	9	9	9	9	9	8	8	9	9	9	8	7	7	7	223
Moner	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
Lewis	7	7	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	8	8	8	8	4	0	0	186
Lewis & Blanchard	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	2	2	2	2	2	2	2	2	2	2	2	0	0	75
Myers 2	9	9	9	9	9	9	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	264
Hare	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	6	6	6	6	6	6	6	6	6	6	6	112
Coffman 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Coffman 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	0	0	0
Kneder	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Myers 1	5	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	10
Myers Irrigation	4	4	4	4	3	3	3	3	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	66
Booth	16	13	11	11	9	3	0	0	3	5	13	16	19	20	19	20	20	21	21	20	21	21	20	20	21	22	21	18	12	12	12	236
Anel	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	4	4	4	4	4	119
Cornelison	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	4	4	4	4	4	4	4	4	4	4	0	0	0	0	48
Evanston Water Supply	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	312
Knights	4	4	5	4	4	4	4	4	4	3	3	2	2	4	2	2	2	2	5	5	5	5	4	4	4	5	5	5	5	5	4	122
State Hospital	3	2	1	1	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	61
Evanston Water	13	13	15	16	16	16	16	19	27	26	25	25	29	34	34	34	36	37	37	38	39	39	39	38	0	0	0	0	0	0	0	657
Barton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Faulkner	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rocky Ntn-Blyth	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	159
Bennett 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
Bruce-Barton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A.W. Sims	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crompton 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	0	0	0
Ewarne 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
Saxton Turner	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saxton Irrigation	5	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	145
John Sims-Sh. Pacific	5	4	11	17	17	17	17	17	21	25	16	11	11	11	8	7	7	7	6	7	6	6	6	9	12	12	11	11	10	8	8	360
Ramsey	8	8	8	8	7	7	7	7	6	6	10	13	13	13	11	10	10	10	9	9	9	10	14	14	14	15	14	14	14	13	12	323
Almy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sims-Blight-Turner	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bowns-Russell	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Turner	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chapman Canal at Hd	33	32	26	25	28	27	28	29	28	25	24	20	21	22	20	24	29	24	25	26	25	26	23	20	19	29	29	26	28	29	28	795
Bartlett-Upper Morris	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lower Morris	0	0	0	0	12	13	13	11	11	11	11	11	11	11	11	10	10	10	10	10	10	9	9	9	9	5	9	8	7	7	3	267
Bowns and Bruce	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tunnel	9	11	13	12	9	10	10	9	10	9	8	8	10	11	10	10	11	12	11	12	12	11	11	12	12	11	12	12	13	14	13	338
Fowkes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Upper Island	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Blight-Irrigation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Francis-Lee	0	0	0	0	7	6	6	9	9	7	7	12	10	18	5	6	5	4	5	6	6	5	5	5	5	6	35	46	46	46	46	337
Bear River	4	4	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	5	5	6	16	33	33	32	31	236
Total Upper Wyoming	229	229	222	235	250	242	235	231	228	230	242	241	246	254	230	226	225	219	222	232	240	241	240	240	224	223	210	268	319	306	299	7,512
Storage in above total	45	45	48	52	52	55	54	60	62	64	63	62	62	61	61	61	60	61	62	61	60	60	59	59	53	53	62	116	139	137	138	2,093
LOWER UTAH - Neville	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	5	5	5	20
Booth	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bear Land & Livestock	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	25	25	25	85
Crawford-Thompson	1	0	0	1	1	1	2	1	1	1	2	1	1	2	2	2	2	2	2	2	5	19	19	19	18	18	104	103	102	102	102	538
Randolph Woodruff	11	11	11	11	10	7	6	5	5	5	5	4	4	4	4	3	3	3	3	3	3	3	2	2	2	2	2	171	224	225	229	983
Dykens	0	0	0	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	1	2	7
Randolph Sage Creek	20	20	19	19	21	19	19	18	18	17	16	15	15	15	17	17	17	17	17	17	17	15	15	16	15	14	14	25	41	55	54	635
McMinn	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	1	0	9
Enborg	0	0	0	0	0	0	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	2
B. Q. West Side	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5	5	5	5	5	5	5	5	5	5	5	89
Total Lower Utah	33	32	31	32	33	28	28	25	26	25	25	23	22	22	24	23	23	23	24	23	25	43	42	42	39	39	323	404	413	424	422	2,348
Storage in above total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	12	13	14	9	8	263	345	388	366	1,420
LOWER WYOMING																																
B. Q. West Slough	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B. Q. East Side	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
McFarland	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pixley	0	0	0	0	0	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	2
Total Lower Wyoming	0	0	0	0	0	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	2
Bear below Pixley Dam	118	117	118	114	111	112	114	108	104	100	96	92	91	86	85	78	79	82	78	77	77	77	74	73	76	82	81	68	59	99	43	2,769
Divertible Flow	335	333	323	329	342	327	316	304	296	299	300	294	297	311	283	266	267	263	267	280	280	272	282	283	274	282	260	280	298	306	293	9,131

Note: Divertible flow is the sum of all diversions plus Bear R. below Pixley Dam minus storage water diverted.
Each State section allocation is equal to the amount diverted minus storage water diverted in the section. (See Article IV, 1. e.)

Table 4

DAILY DISCHARGE IN CFS OF BEAR RIVER CANALS WITH COMPACT ALLOCATION IN UPPER DIVISION

SEPTEMBER 1972	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	
UPPER UTAH - Hovarka E F	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UPPER WYO - Hilliard E F	12	13	13	13	16	23	16	14	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	128
Lannon	7	5	6	10	13	19	12	10	7	4	4	3	5	3	3	3	3	3	4	5	5	5	5	4	4	4	5	6	6	5		175
Hilliard West Side	17	17	17	16	17	19	17	15	14	11	11	11	10	10	10	10	10	10	11	12	11	11	11	11	11	11	11	11	11	11		375
Bear	34	34	34	32	33	34	31	31	20	5	5	5	5	5	5	5	5	5	5	5	5	4	4	4	4	4	4	4	4	4		379
Tropic	4	4	4	4	4	4	3	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		36
Danielson	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
Pine Grove & Crown	9	9	9	10	10	10	10	11	11	11	11	11	10	11	11	11	16	16	16	13	13	13	12	12	12	11	11	11	11	11		345
McGraw & Big Bend	1	2	2	2	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		43
Honer	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	0	0	0	0	0		9
Lewis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
Lewis & Blanchard	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		5
Myers 2	8	8	8	8	8	8	7	7	7	7	7	7	6	6	6	6	6	6	6	6	6	6	5	6	6	6	6	6	6	6		198
Hare	6	6	6	6	6	6	6	6	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		54
Coffman 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
Coffman 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	0		0
Knoder	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
Myers 1	4	4	4	4	4	4	4	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		40
Myers Irrigation	12	12	12	12	12	12	12	12	12	12	12	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		144
Booth	21	21	21	20	19	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		169
Ansel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
Cornelison	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
Evanston Water Supply	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
Knight 1 & 2	5	5	5	5	6	7	7	7	7	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		81
State Hospital	2	2	2	2	2	2	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		18
Evanston Water	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
Barton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
Faulkner	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
Rocky Ntn-Blyth	6	6	6	6	6	6	6	5	5	5	5	5	5	5	5	5	5	5	5	8	14	5	5	5	5	5	5	6	6	6		172
Bennett 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
Bruce-Barton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
A.W. Sims	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
Crompton 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	0		0
Fearns 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
Saxton Turner	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
Saxton Irrigation	3	3	3	3	3	3	3	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		27
John Sims-So. Pacific	7	8	8	8	8	8	8	8	8	6	6	4	5	6	8	8	7	7	7	7	6	6	6	6	6	6	5	5	5	5		198
Ramsey	12	12	11	12	10	10	10	9	9	9	8	8	8	8	8	8	7	8	8	8	8	5	5	2	2	6	7	6	6	6		238
Almy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
Sims-Blight-Turner	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
Bowns-Russell	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
Turner	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
Chapman Canal at Hd	28	31	37	33	40	57	64	56	56	40	29	29	28	28	28	27	28	27	31	33	35	35	30	32	33	31	32	37	40	40		1,075
Bartlett-Upper Morris	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
Lower Morris	2	2	2	2	2	3	3	3	3	3	3	3	3	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3		85
Bowns and Bruce	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
Tunnel	13	13	13	13	13	14	13	13	13	14	12	8	4	4	3	3	3	3	2	4	5	5	5	4	4	4	4	5	5	5		224
Fowkes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
Upper Island	0	0	8	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
Blight-Irrigation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
Francis-Ide	45	25	11	12	15	12	7	11	12	12	12	12	12	12	12	12	12	4	0	0	0	0	0	0	0	0	0	0	0	0		249
Bear River	33	16	5	5	5	4	4	4	4	4	4	5	5	5	5	5	5	4	0	0	0	0	0	0	0	0	0	0	0	0		122
Total Upper Wyoming	300	269	244	241	257	275	268	237	216	159	126	130	107	110	110	109	113	104	101	107	114	101	94	92	93	96	96	103	106	105		4,563
Storage in above total	135	97	73	74	76	73	64	62	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		688
LOWER UTAH - Neville	5	1	0	0	0	0	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
Booth	1	1	1	0	0	0	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
Rees Land & Livestock	25	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		34
Crawford-Thompson	100	28	17	14	12	11	9	8	7	6	6	5	5	5	4	4	4	4	3	3	3	3	2	2								322
Randolph Woodruff	229	184	25	10	9	9	9	9	9	9	8	8	8	8	8	7	7	7	7	7	7	10	17	19	19	19	21	20	20	20		558
Bykens	1	1	0	0	0	0	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
Randolph Sage Creek	52	51	33	26	23	23	20	19	18	17	16	16	14	13	12	11	10	7	9	8	9	9	9	9	9	9	10	10	9	9		489
McMinn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
Coberg	7	8	9	7	5	6	5	3	3	3	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		60
B. Q. West Side	5	5	5	5	4	4	4	4	3	3	3	3	3	3	3	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2		93
Total Lower Utah	425	338	90	62	53	53	47	43	41	40	36	31	30	29	28	25	24	21	22	20	23	24	30	32	32	31	33	32	31	31		1,758
Storage in above total	411	335	88	51	33	31	25	22	20	20	16	10	5	0	0	0	0	0	0	0	0	10	20	20	21	21	23	23	23	23		1,274
LOWER WYOMING																																
B. Q. West Slough	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
B. Q. East Side	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
McFarland	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
Pixley	23	29	32	31	26	21	19	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		189
Total Lower Wyoming	23	29	32	31	26	21	19	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		189
Bear below Pixley Dam	56	55	70	76	73	64	59	155*	96*	83	77	77	82	88	102	103	102	102	104	103	104	102	100	99	99	102	104	110	120	123		2,800
Divertible Flow	258	260	275	285	300	319	284	260	255	245	233	226	214	227	240	237	239	227	227	230	229	207	204	202	203	204	211	223	235	237		7,189

* Includes storage impounded by Pixley Dam

Note: Divertible Flow is the sum of all diversions plus Bear R. below Pixley Dam minus storage water diverted.
Each State section allocation is equal to the amount diverted minus storage water diverted in the section. (See Article IV, 1, e.)

Table 5

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

MAY 1972	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	26	69	73	72	66	59	44	30	26	23	20	17	17	28	35	612
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	0	0	0	0	0	0	0
Wyman West	38	38	39	41	43	45	45	47	48	48	48	48	48	49	49	51	51	51	50	49	49	49	49	47	47	46	46	45	44	45	46	1,438
Snyder	1	1	1	1	1	1	2	2	3	2	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	3	14	14	17	24	27	124
Rocky Point	2	1	1	1	4	8	10	14	17	20	18	19	20	24	26	29	32	32	29	28	26	25	24	22	17	15	14	12	9	9	9	517
Cook	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	3	4	14	27	27	29	28	27	26	43	102	102	102	102	639
J. R. Richards	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	7	13	13	7	11	7	7	9	3	0	0	0	0	0	0	0	78
TRIBUTARY CANALS																																
Goodell Ca - 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	13	13	26
V. H. Canal - 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	12	12	24
Collett Canal-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	3	3	6
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 C&P #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-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
Sublette C at Thompson	0	0	0	0	0	0	0	0	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 FORK CANALS																																
Quine-Bourne	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	186
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	5	5	5	5	5	5	30
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	2	0	0	0	0	0	0	0	0	0	0	0	0	2	1	1	2	2	1	1	17	23	23	26	34	32	26	28	221
Cooper	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	0
Covey Canal at Head	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52	61	64	72	92	96	92	94	96	120	128	127	111	1,205
Covey Canal-Bruner 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
Covey Canal-Spring 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
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	8	13	21
Whites Water	0	0	0	0	0	0	0	0	0	0	7	15	12	11	11	11	10	10	14	14	13	13	13	13	12	12	16	15	15	16	16	258
Martin (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
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	0	0	0	0	0	0	0	0	0	0
Fargeon (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
Stoner-Nichols (So Br)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	10	6	5	5	6	6	6	6	6	6	68
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	0
Cokeville Water-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	2	2	2	2	2	2	12
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	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	0
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	0	0	0
South Br 1-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	0	0	0
Igo Star 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
TOTAL WYO. DIVERSIONS	47	46	46	51	54	60	63	69	74	76	73	81	91	92	93	113	144	185	237	258	266	269	273	267	255	261	294	378	383	429	434	5,453
IDAHO DIVERSIONS																																
Miller Ditch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	16	16	16	16	16	16	10	0	0	0	0	0	10	18	18	162
Hoffer Canal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	15	15	15	15	15	15	15	15	16	12	10	10	15	193
Sorensen Ditch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	17	17	17	17	17	17	10	0	0	0	0	0	125
Jensen Ditch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	13	13	13	12	12	10	0	83
Loyd Ditch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	8	6	6	8	8	8	7	7	6	6	6	6	92
Dingle Irrig. Canal	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	45	50	57	65	68	67	67	71	69	63	63	63	765
Ream Crockett Canal	18	18	18	18	18	18	20	21	21	22	23	28	45	59	60	60	60	59	58	58	58	58	58	58	57	57	56	54	53	51	50	1,313
Black Otter Canal	0	0	0	0	0	0	0	0	0	0	40	54	53	52	82	125	126	127	127	126	125	124	123	123	120	114	111	111	111	109	126	2,205
Preston Montpelier Ca	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	17	16	18	28	33	41	46	49	260
LaRocco Kent Canal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	20	19	18	11	11	10	10	10	10	10	10	10	10	15	19	208
West Fork Canal	28	28	28	80	153	161	170	168	171	169	164	161	163	164	163	152	155	160	167	161	156	153	157	157	152	147	157	156	152	145	164	4,470
Pugmire 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	5	10	10	10	35
TOTAL IDAHO DIVERSIONS	46	46	46	106	171	180	190	189	192	191	227	243	261	275	306	358	377	392	432	458	457	456	475	482	476	458	467	469	479	488	517	9,911
Rainbow Inlet Ca-Bear L.	1680	1590	1570	1530	1500	1560	1650	1760	1950	2110	2190	2260	2260	2250	2260	2250	2310	2350	2420	2490	2460	2420	2380	2340	2310	2190	2050	1960	1850	1680	1600	63,080
Bear R bl Stewart Dam	6	6	6	7	10	10	11	11	12	12	12	12	13	13	14	13	14	14	14	13	13	14	14	14	15	15	14	13	12	12	11	321
Idaho Divertible Flow	1632	1642	1622	1643	1683	1750	1851	1960	2154	2313	2629	2515	2534	2538	2580	2621	2701	2756	2866	2961	2931	2892	2869	2836	2800	2663	2531	2442	2341	2180	2128	73,362
Wyoming Divertible Flow	47	46	46	51	54	60	63	69	74	76	73	81	91	92	93	113	144	185	237	258	266	269	273	267	255	261	294	378	383	429	434	5,453
Total Divertible Flow	1679	1688	1668	1694	1736	1810	1914	2029	2228	2389	2702	2596	2625	2630	2673	2734	2845	2941	3103	3219	3197	3161	3142	3103	3055	2924	2825	2820	2724	2609	2562	78,815
Wyoming Allocation (43%)																																
Idaho Allocation (57%)																																

Table 6

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

JUNE 1972	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	39	51	60	64	68	83	94	131	140	126	123	115	99	89	80	85	84	82	80	24	23	23	23	23	23	23	8	6	5	5		1,890
Wyman East	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	22	22			688
Wyman West	46	47	47	47	47	49	51	52	51	51	51	51	51	52	52	53	53	53	51	51	50	47	44	42	41	38	36	35	33	32		1,262
Snyder	29	35	36	44	46	52	57	66	68	62	62	64	69	70	74	72	70	68	60	47	39	38	38	38	38	38	35	33	32	31		1,509
Rocky Point	13	16	22	25	28	9	10	11	44	44	44	43	44	49	49	53	54	55	56	53	49	42	31	23	20	16	12	9	7	6		936
Cook	102	102	102	102	102	102	73	59	52	51	39	36	36	37	37	37	37	37	37	43	44	41	31	25	24	22	15	8	8	8		1,451
J. R. Richards	1	4	8	13	13	14	15	15	15	24	24	24	24	24	23	23	23	22	22	22	22	22	22	22	22	22	22	22	22	22		573
TRIBUTARY CANALS																																
Goodell Co. - Pine Cr	12	12	12	12	12	12	12	12	12	12	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	10	10	11		338
V. H. Canal - Pine Cr	13	13	13	13	13	13	13	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	13	13	13	13	13	13	13	13		375
Collett Canal-Pine Cr	3	3	3	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2		52
Grade Creek Canal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	2	2	2	2		16
Diamond C&P #1-Brunner	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	10	10	10	0	0	0	0	0	0	0	0	0	0	0		70
Haggerty West-Brunner	0	4	5	5	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		24
Sublette C at Thomsen	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5	5	5	5	4	4	4	4	4	4	4	4	4	4	4		154
SMITHS FORK CANALS																																
Quinn-Bourne	8	8	8	8	8	8	8	8	8	8	8	7	7	7	7	7	6	6	6	6	6	5	5	5	4	4	4	4	3	3		190
Button Flat	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	2	2	2	2	2	2	2	3	2	2		26
Perry Partridge	5	5	5	5	8	8	8	8	8	10	10	10	10	12	11	11	11	11	11	11	11	11	11	10	10	10	10	10	10	0		271
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	6	4	0	0	0	0		10
Enoble	28	28	24	0	36	36	36	36	22	28	25	25	21	19	17	16	15	13	12	11	11	11	11	11	11	9	7	7	7	10		556
Cooper	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
Wheelock	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1	1	1	1	1	5	5	5	5	5	5	5		44
Covey Canal at Head	117	125	130	127	130	134	142	135	130	134	132	125	120	127	128	139	138	131	128	130	134	134	135	135	128	125	125	130	134	135		3,917
Covey Canal-Brewer Cr	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	14	17	16	16	16	11	11			96
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	5	5	5	5		124
Tanner, Hunt & Garrett	13	13	13	12	12	12	13	12	12	10	11	10	10	10	10	10	10	10	10	8	8	8	8	9	10	9	8	7	7	7		305
Whites Water	16	17	17	17	21	29	29	27	25	24	22	21	20	21	20	26	35	33	26	21	19	18	18	17	17	16	16	15	14	14		631
Martin (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
John Bourne-Collett Cr	7	7	7	7	7	7	6	6	5	4	4	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4		136
Forgeon (Collett Cr)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		16
Stoner-Nichols (So Br)	6	6	6	7	8	9	9	10	10	5	8	8	8	8	8	8	8	8	9	10	9	9	9	9	9	9	8	8	8	8		249
Morgan (South Branch)	0	0	0	0	0	1	0	1	0	1	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3		61
Cokeville Water-So Br	2	2	2	2	2	2	5	5	5	5	7	7	7	7	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12		244
Tanner 1 (South Br)	0	0	1	0	0	0	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
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	8	8	8	8	8	8		64
South Br 1-Smiths Fork	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	6	6	6	6	6	6	6	6	6		60
Igo Star 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
TOTAL WYO. DIVERSIONS	493	533	554	554	602	618	615	636	666	652	626	612	602	608	612	627	631	616	596	514	510	505	491	478	463	447	414	403	399	393		16,470
IDAHO DIVERSIONS																																
Miller Ditch	18	18	18	19	19	19	16	12	13	14	15	15	15	15	19	0	0	0	0	10	12	12	12	12	11	10	0	0	0	0		315
Nuffer Canal	19	20	20	20	21	20	21	21	22	22	22	22	22	22	22	20	19	19	18	18	18	17	16	14	13	11	10	10	12	15		542
Sorensen Ditch	0	0	0	12	20	21	21	21	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		111
Jensen 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
Loyd Ditch	6	6	7	7	8	8	9	10	11	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	7	6	6	6	6		105
Dingle Irrig. Canal	62	63	66	66	63	49	49	49	49	48	48	66	70	69	66	66	66	66	33	36	29	23	20	17	10	0	0	10	10	0		1,249
Beam Crockett Canal	50	51	51	51	51	52	53	53	53	54	56	61	63	64	65	66	68	69	71	71	71	70	68	67	66	65	63	62	59	57		1,821
Black Otter Canal	133	134	137	140	143	145	148	151	146	136	141	143	142	142	143	144	145	148	152	151	148	146	141	135	126	115	108	102	96	91		4,072
Preston Montpelier Ca	52	61	63	69	73	74	59	65	66	67	65	53	51	50	59	66	60	61	57	56	55	49	43	36	32	26	24	22	22	21		1,577
LaRocco Kent Canal	20	11	4	3	3	3	3	3	3	3	3	3	3	3	3	9	12	12	13	13	13	14	14	14	14	11	10	8	8	8		247
West Fork Canal	171	175	169	166	167	173	172	173	173	179	172	178	175	173	174	177	181	181	169	160	160	175	164	150	135	128	145	152	169	159		4,996
Pugmire Ditch	10	10	11	12	12	12	12	11	11	10	10	10	10	10	10	10	11	12	12	12	12	12	12	11	11	11	10	10	9	8		324
TOTAL IDAHO DIVERSIONS	548	555	545	563	580	576	573	569	563	530	532	551	551	548	552	558	562	548	525	527	518	518	490	456	421	384	375	380	369	362		15,352
Rainbow Inlet Ca-Bear L	1660	1660	1730	1830	1900	2000	2090	2220	2340	2470	2570	2620	2600	2560	2610	2590	2620	2690	2740	2730	2770	2670	2620	2460	2280	2020	1840	1500	1350	1230		66,950
Bear R Bl Stewart Dam	12	13	14	15	15	15	15	16	16	18	18	19	19	18	18	18	18	19	19	19	19	19	18	17	16	15	15	18	20	20		511
Idaho Divertible Flow	2200	2228	2289	2410	2495	2591	2678	2805	2919	3026	3120	3190	3170	3126	3180	3166	3200	3257	3284	3276	3307	3257	3128	2933	2717	2419	2230	1898	1759	1612		82,820
Wyoming Divertible Flow	493	533	554	554	602	618	615	636	666	652	626	612	602	608	612	627	631	616	596	514	510	505	491	478	463	447	414	403	399	393		16,470
Total Divertible Flow	2693	2761	2843	2964	3097	3209	3293	3441	3585	3678	3746	3802	3772	3734	3792	3793	3831	3873	3880	3790	3817	3712	3619	3411	3180	2866	2644	2301	2158	2005		99,290
Wyoming Allocation (43%)																																
Idaho Allocation (57%)																																

Table 7

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

JULY 1972	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	6	6	7	7	7	7	7	7	7	7	7	7	7	7	8	8	7	6	5	5	4	5	5	5	4	3	2	2	2	2	2	200
Wyman East	21	21	21	20	20	19	18	18	17	17	16	16	16	15	15	14	14	13	13	12	12	12	11	11	11	11	11	12	12	12	13	462
Wyman West	32	32	32	33	34	34	34	34	34	34	35	35	35	33	30	29	29	28	26	26	15	0	0	0	0	0	0	0	0	0	0	654
Snyder	32	34	35	39	44	46	50	50	27	30	32	34	32	34	33	30	27	25	21	20	21	20	18	17	16	15	16	16	15	15	15	861
Rocky Point	4	4	3	2	2	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Cook	23	23	20	20	22	25	24	23	22	22	15	8	8	7	6	5	4	4	14	22	24	24	22	21	18	18	18	18	16	16	15	527
J. R. Richards	22	22	22	22	22	22	22	22	22	22	17	15	15	12	12	10	10	10	10	10	7	7	7	7	4	0	0	0	0	0	0	373
TRIBUTARY CANALS																																
Goodell Ca - Pine Cr	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	325
V. H. Canal - Pine Cr	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	10	10	10	10	10	10	10	10	10	10	10	370
Collett Canal-Pine Cr	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	47
Grade Creek Canal	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	66
Diamond C&P el-Brunner	0	0	0	0	0	0	0	0	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-Brunner	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Subletto C at Thompson	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	42
																																124
SMITHS FORK CANALS																																
Quinn-Bourne	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	3	3	3	3	3	3	3	3	3	3	3	3	3	111
Button Flat	2	2	3	3	4	4	5	6	6	7	7	8	8	8	8	8	8	7	7	7	7	6	6	6	6	5	5	5	5	5	5	179
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	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	57
Enelle	14	13	10	9	9	7	7	6	6	5	4	3	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	97
Cooper	9	0	0	0	0	9	18	18	18	17	16	16	15	15	15	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	353
Wheelock	5	5	5	0	0	0	0	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
Covey Canal at Head	118	107	100	70	69	68	68	99	79	67	65	64	63	109	102	96	118	144	130	138	137	135	120	130	128	127	128	135	132	128	114	3,296
Covey Canal-Brunner Cr	11	11	11	11	12	12	12	12	13	13	13	14	14	14	14	14	14	14	13	13	13	12	12	12	11	11	11	11	10	10	9	377
Covey Canal-Spring Cr	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	5	155
Tanner, Hunt & Garrett	7	7	8	8	8	7	7	7	6	7	6	6	6	5	5	4	4	3	3	4	4	4	3	3	2	2	2	2	2	2	2	146
Whites Water	15	15	15	14	14	13	13	13	13	13	13	13	13	12	12	12	12	11	11	11	11	14	22	21	21	20	20	20	20	19	19	472
Martin (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
John Bourne-Collett Cr	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	148
Forgeon (Collett Cr)	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	2	2	2	2	64
Stoner-Nichols (So Br)	8	8	8	8	8	7	7	6	6	7	7	7	7	7	8	10	10	11	12	12	12	12	11	11	10	7	5	5	7	9	9	260
Morgan (South Branch)	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	0	0	0	0	0	0	0	0	0	0	0	93
Cokeville Water-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
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	1	1	1	1	1	1	7
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	1
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	2	2	2	2	2	2	2	2	2	2	26
South Br 1-Smiths Fork	6	6	6	6	6	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Igo Star 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	36
																																0
TOTAL WYO. DIVERSIONS	374	364	356	322	330	340	342	371	326	318	304	297	292	339	328	316	330	348	346	342	331	318	295	303	290	277	277	285	286	295	279	9,919
IDAHO DIVERSIONS																																
Miller Ditch	0	0	10	12	11	11	11	11	11	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	8	8	8	8	8	132
Nuffer Canal	15	15	15	15	15	15	12	14	13	12	11	11	11	11	10	9	9	8	8	8	8	8	8	8	7	0	0	0	0	0	0	228
Sorensen Ditch	0	0	0	0	0	0	16	16	15	15	15	15	15	15	14	12	11	11	11	10	0	0	0	0	0	0	0	0	0	0	0	201
Jensen 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
Loyd Ditch	4	3	3	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Dingle Irrig. Canal	9	0	0	10	15	15	15	25	29	32	47	59	59	59	58	62	58	58	58	58	58	58	46	6	5	6	6	6	6	6	6	1,244
Beam Crockett Canal	56	54	54	53	52	51	51	50	49	48	48	47	47	46	47	48	48	48	48	48	48	48	53	48	42	41	40	46	55	51	54	50	50	1,184
Black Otter Canal	80	85	82	80	78	77	75	71	68	64	63	65	31	30	29	27	26	24	23	23	22	22	22	23	23	21	21	21	21	20	20	1,325
Preston Montpelier Ca	20	19	8	3	8	7	28	27	26	26	28	31	32	38	38	36	35	34	33	33	35	35	35	36	36	32	34	34	34	33	27	883
LaRocco Kent Canal	7	6	6	6	5	6	10	19	18	17	16	16	16	15	14	12	2	6	5	5	5	4	2	2	0	0	0	0	0	0	0	219
West Fork Canal	152	145	142	141	137	136	135	88	8	8	8	8	8	8	7	6	4	4	4	5	6	6	6	6	6	6	6	6	6	6	6	1,220
Pugsley Ditch	7	6	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	9	9	49
TOTAL IDAHO DIVERSIONS	349	333	324	322	322	329	367	321	237	232	236	232	219	222	217	212	188	184	196	194	177	171	161	122	118	118	130	130	137	131	125	6,746
Rainbow Inlet Ca-Bear R.	1150	1080	1030	1000	960	940	916	853	853	818	764	737	722	700	661	583	534	490	442	426	429	417	423	438	447	429	353	329	358	353	350	20,035
Bear R bl Stewart Dam	19	19	19	18	18	18	17	17	15	16	15	15	15	14	13	11	9	8	6	7	16	16	17	17	17	17	16	16	16	15	15	468
Idaho Divertible Flow	1518	1432	1373	1340	1300	1287	1290	1191	1106	1066	1215	984	956	936	891	806	731	682	644	627	622	604	601	577	582	564	499	525	511	499	490	27,269
Wyoming Divertible Flow	374	364	356	322	330	340	342	371	326	318	304	297	292	339	328	316	330	348	346	342	331	318	295	303	290	277	277	285	286	295	279	9,919
Total Divertible Flow	1892	1796	1729	1662	1630	1627	1632	1562	1432	1384	1519	1281	1248	1275	1219	1120	1061	1030	990	969	953	922	896	880	872	841	776	810	797	794	769	37,188
Wyoming Allocation (43%)																										362	338	348	362	341	331	2,059
Idaho Allocation (57%)																										479	442	462	454	453	438	2,728

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

AUGUST 1972	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	13	13	13	12	12	12	12	12	11	10	10	9	10	10	10	10	10	9	9	9	9	9	10	10	11	6	6	7	6	7	7	304
Wyman East	13	13	13	12	11	10	9	8	7	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	177
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	14	13	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	37
Cook	9	9	11	11	11	10	10	11	13	21	20	20	19	19	19	18	18	17	18	18	18	18	18	17	15	16	16	16	16	17	22	493
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 Co- Pine Cr	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	9	9	9	9	8	8	8	8	8	7	7	7	282
W. H. Canal - Pine Cr	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	11	11	11	11	11	11	11	11	11	297
Collett Canal-Pine Cr	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	73
Grade Creek Canal	4	4	5	5	4	4	4	4	3	3	3	3	3	3	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	68
Diamond C&P #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-Bruner	0	0	0	6	6	6	6	6	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36
Sublette C at Thompson	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	122
SMITHS FORK CANALS																																
Quinn-Bourne	4	4	4	4	4	5	5	5	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	190
Button Flat	5	5	5	5	5	5	5	5	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	3	3	3	3	2	2	2	121
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	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	66
Enelle	0	0	0	0	0	0	0	0	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	14	14	4	4	7	8	7	6	7	5	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	85
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	0
Covey Canal at Head	111	103	96	97	96	95	94	78	73	77	80	63	83	86	84	82	82	75	74	69	68	63	55	55	51	51	51	49	28	27	24	2,260
Covey Canal-Bruner Cr	9	8	8	7	6	6	7	9	11	11	12	13	14	15	16	17	17	17	16	15	15	15	15	15	15	15	15	15	14	14	14	397
Covey Canal-Spring Cr	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	0	0	0	140
Tanner, Hunt & Garrett	2	2	2	2	2	3	3	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	59
Whites Water	18	18	17	16	16	15	15	22	27	26	26	26	26	23	23	23	22	23	22	21	21	21	24	22	25	18	17	24	25	26	26	674
Martin (Collett Cr)	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
John Bourne-Collett Cr	6	6	6	7	7	6	6	5	5	3	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	68
Ferguson (Collett Cr)	2	2	1	1	2	2	2	3	3	3	4	4	4	4	5	5	5	5	5	6	6	6	6	6	6	6	6	7	7	7	7	137
Stoner-Nichols (So Br)	10	12	14	15	11	10	12	10	10	9	9	9	9	9	9	9	9	8	9	10	10	11	12	14	14	12	10	12	12	11	11	336
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	0
Cokeville Water-So Br	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	26
Tanner 1 (South Br)	0	0	1	0	0	0	0	0	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	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	61
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	0	0	0
South Br 1-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	0	0	0
Ige Star 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
TOTAL WYO. DIVERSIONS	269	260	245	240	236	236	232	224	229	228	226	225	222	220	221	216	214	205	204	198	196	191	192	190	188	176	170	179	156	157	161	6,506
IDAHO DIVERSIONS																																
Miller Ditch	8	6	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	5	5	5	5	5	5	5	5	8	11	11	11	11	11	123
Nuffer 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
Sorensen 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
Jensen 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
Loyd Ditch	0	0	0	0	0	0	0	0	0	0	0	0	0	6	8	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	206
Dingle Irrig. Canal	48	54	47	53	58	66	62	66	55	53	50	58	56	55	52	52	52	41	39	37	35	24	13	13	13	13	13	15	22	22	20	1,229
Beam Crockett Canal	4	4	4	4	4	4	21	30	25	4	4	4	4	4	4	4	4	4	4	5	4	4	4	4	4	19	29	30	12	12	12	338
Black Otter Canal	20	20	19	18	17	16	15	14	14	15	15	14	14	14	14	14	14	14	14	14	14	14	14	14	14	13	12	12	11	11	11	449
Preston Montpelier Co	27	27	27	26	26	25	27	18	18	21	25	25	25	26	27	27	27	27	27	27	26	26	26	25	26	26	19	15	14	14	14	726
LaRocco Kent 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	2	10	10	10	10	10	10	62
West Fork Canal	6	6	6	5	5	5	5	5	5	5	5	5	4	4	4	4	4	4	4	4	4	4	8	16	16	16	16	16	16	16	16	240
Pugmire Ditch	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	7	252
TOTAL IDAHO DIVERSIONS	115	115	111	115	118	124	133	131	125	106	107	105	111	117	117	122	126	115	113	111	108	97	90	98	100	126	131	130	117	117	113	3,525
Rainbow Inlet Ca-Bear C.	358	333	331	310	309	280	263	247	243	255	252	252	252	257	255	255	250	246	243	238	233	233	231	231	226	208	188	190	188	186	186	7,736
Rear P hl Stewart Dam	15	15	15	15	15	14	14	14	14	14	13	13	13	13	13	13	13	12	12	12	12	12	12	12	12	12	11	11	11	11	11	398
Idaho Divertible Flow	488	463	457	440	442	418	410	392	382	375	372	371	381	387	385	390	389	373	368	361	353	342	333	341	338	346	330	331	316	316	312	11,760
Wyoming Divertible Flow	269	260	245	240	236	236	232	224	229	228	226	225	222	220	221	216	214	205	204	198	196	191	192	190	188	176	170	179	156	157	161	6,506
Total Divertible Flow	757	723	702	680	678	654	642	616	611	603	598	596	603	607	606	606	603	578	572	559	549	533	525	531	526	522	500	510	492	491	493	18,266
Wyoming Allocation (43%)	326	311	302	292	292	281	276	265	263	259	257	256	259	261	261	261	259	249	246	240	236	229	226	228	226	224	215	219	212	211	212	7,854
Idaho Allocation (57%)	431	412	400	388	386	373	366	351	348	344	341	340	344	346	345	345	344	329	326	319	313	304	299	303	300	298	285	291	280	280	281	10,412

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

SEPTEMBER 1972	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	31	7	7	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	0	0	0	36
	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0	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 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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rocky Point	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	9	18	17	17	15	16	16	19	15	15	17	18	9		627
Cook	15	18	24	25	32	43	35	28	37	33	30	29	29	19	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
J. B. 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		
TRIBUTARY CANALS																																
Goodell Ca - Pine Cr	7	8	8	9	9	9	10	10	11	10	10	10	10	10	10	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9		276
V. H. Canal - Pine Cr	10	10	10	10	9	9	9	9	9	9	9	9	9	9	9	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10		289
Collett Canal-Pine Cr	2	2	2	2	2	2	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		52
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 C&P #1-Bruner	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
Haggerty West-Bruner	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1		5
Sublette C at Thompson	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
SMITHS FORK CANALS																																
Quinn-Bourne	7	7	7	6	6	5	5	4	4	4	4	3	3	3	3	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1		90
Button Flat	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		60
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
Emelie	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
Cooner	5	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		13
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	7	7	7	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		48
Covey Canal-Bruner Cr	14	14	14	14	14	15	15	15	15	15	16	16	16	16	16	17	17	17	17	17	18	18	18	18	18	19	19	19	19	19		495
Covey Canal-Spring Cr	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
Tanner, Hunt & Garrett	3	3	3	3	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		79
Whiter Water	27	27	27	27	32	39	34	29	13	14	14	14	14	14	14	10	9	9	9	9	9	9	9	8	8	8	8	8	8	8		459
Martin (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
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	0	0	0	0	0	0	0	0		0
Forgeon (Collett Cr)	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	7	7	7	7	7	7	7	7	7	7	7		224
Stoner-Nichols (So Br)	12	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		19
Morgan (South Branch)	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
Cokeville Water-So Br	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3		93
Tanner) (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	0	0	0	0	0	0	0	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 1-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	0		0
Igo Star 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
TOTAL WYO. DIVERSIONS	130	133	130	116	127	149	135	111	113	106	104	101	101	91	86	79	77	77	85	83	86	85	85	84	83	83	83	85	86	77		2971
IDAHO DIVERSIONS																																
Miller Ditch	11	11	11	11	12	14	14	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		94
Nuffer Canal	0	0	0	0	3	15	14	14	16	16	16	16	16	16	16	17	18	18	18	18	17	17	17	17	17	17	17	17	17	17		414
Sorensen Ditch	6	9	9	9	9	9	9	9	9	9	8	8	8	8	8	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6		186
Jensen Ditch	12	12	12	12	12	12	10	0	8	9	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0		9
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		737
Dingle Irrig. Canal	22	19	18	19	23	22	28	28	26	29	28	25	24	23	23	24	25	26	26	26	26	26	25	25	25	25	27	27	27	27		633
Bear Creekett	35	32	32	32	32	32	33	33	34	34	34	33	30	28	28	18	18	18	18	18	18	18	15	5	5	5	5	5	5	5		715
Black Otter Canal	15	14	13	14	15	17	21	22	21	26	24	15	10	12	15	16	19	22	22	24	22	19	19	19	22	32	21	105	37	13		393
Preston Montpelier Ca	14	14	14	14	14	14	10	6	5	5	5	3	9	9	9	5	5	5	5	5	5	5	3	3	4	6	6	4	3	3		143
LaRocco Kent Canal	9	9	9	10	9	10	10	15	15	15	15	13	15	15	15	14	14	14	14	15	15	15	15	15	16	16	16	16	16	16		424
West Fork Canal	16	16	16	16	16	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
Pugmire 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		
TOTAL IDAHO DIVERSIONS	137	136	134	136	143	151	149	137	135	143	140	123	113	108	113	106	105	108	109	112	109	105	97	88	93	102	102	148	100	111	87	3661
Rainbow Inlet Ca-Bear L.	196	190	180	186	192	224	240	235	215	222	210	203	235	229	235	235	243	243	252	247	247	238	233	245	257	255	245	231	252	280		6893
Bear R. b) Stewart Dam	11	11	11	11	11	7	2	6	9	9	9	8	9	8	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	10		266
Idaho Divertible Flow	344	337	325	331	345	382	391	376	359	374	359	334	357	346	357	348	357	360	370	368	365	352	339	342	359	371	402	420	372	377		10,820
Wyoming Divertible Flow	130	133	130	116	127	149	135	111	113	106	104	101	101	91	86	79	77	77	85	83	86	85	85	84	83	83	83	85	86	77		2,971
Total Divertible Flow	474	470	455	447	473	531	526	487	472	480	463	435	458	437	443	427	434	437	455	451	451	437	424	426	442	454	485	505	458	454		13,791
Wyoming Allocation (43%)	204	202	196	192	203	228	226	209	203	205	199	187	197	188	190	184	187	188	196	194	194	188	182	183	190	195	209	217	197	195		5,929
Idaho Allocation (57%)	270	268	259	255	270	303	300	278	269	274	264	248	261	249	253	243	247	249	259	257	257	249	242	243	252	259	276	288	261	259		7,862

Table 10

APPENDIX A

WM. DEAN KIMBER
CERTIFIED PUBLIC ACCOUNTANT
4315 South 3720 West
Salt Lake City, Utah 84120

MEMBER
AMERICAN INSTITUTE OF
CERTIFIED PUBLIC ACCOUNTANTS

February 28, 1973

Bear River Commission
Utah State Capitol
Salt Lake City, Utah

Gentlemen:

In accordance with your instructions I have examined the accounting records of the Bear River Commission for the fiscal year ended June 30, 1972. I submit my report of the examination.

My examination included a review of the financial transactions and an examination of the statement of revenue and expenditures for the year and budget estimates and related expenses as included in the minutes of the Commission meetings. The budget in the audit report is adjusted to reflect a supplemental appropriation of $611 to offset pay raises of Federal employees.

I confirmed the funds available at June 30, 1972 by direct correspondence with the depository. My examination was conducted 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. Extraneous income arose during the year from interest on savings. Expenditures for operations were made directly by the United States Geological Survey and are included in detail in this report. Administrative expenses in the amount of $384.50 were disbursed by the Salt Lake City Office. The legal fees of $300 and printing costs for the annual report in the amount of $600 had not been invoiced by June 30, 1972 and therefore not paid.

The results of my examination are presented herewith and include comments and explanations as appropriate in the following described statements.

Exhibit "A" Statement of Revenue and Expenditures for the fiscal year ended June 30, 1972.

Exhibit "B" Statement of Available Revenue and Appropriations thereof for the fiscal year, showing balances at June 30, 1972.

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 Wyoming, Idaho and Utah for the utilization and development of the waters of the Bear River. The Commission was organized April 5, 1958 and the by-laws were adopted April 26, 1958. The Commission is the administrative agency which carries out the provisions of the Bear River Compact. Three Commissioners from each of the three represented states, plus one non-voting Commissioner representing the United States, constitutes the ten member Commission. The United States representative acts as Chairman. All expenses of the Commission are shared by the three states on an equal basis.

The Commission enters into an annual agreement with the United States Geological Survey, Department of the Interior, for the operation and maintenance of gauging stations. Expenses for the gauging station program are shared equally by the Commission and the Geological Survey, except the Geological Survey makes up any budget deficits arising from Federal salary increases. Other expenses attributable to the Commission are paid by the Commission whether the expense is incurred by the Geological Survey or the Salt Lake City Office. Detail of the expenses incurred under the agreement are shown 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 position of the Bear River Commission at June 30, 1972 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,

Wm. Dean Kimber

BEAR RIVER COMMISSION

Statement of Revenue & Expenses
For the Fiscal Year Ended June 30, 1972

REVENUE:			
Assessments:			
State of Wyoming		$14,000.00	
State of Idaho		14,000.00	
State of Utah		14,000.00	
			$42,000.00
Other Income:			
Interest		1,325.24	
			1,325.24
Total Revenue			43,325.2
EXPENDITURES:			
Commission's portion of direct expenses of the stream gauge program, Schedule "A-1"			
Personal Services	$30,946.00		
Travel and Subsistence	2,800.00		
General Office	1,850.00		
Fiscal and Administration	1,868.00		
Washington Office Charges	3,736.00		
Total--Schedule "A-1"		41,200.00	
Administrative Expenses			
Auditing Fee	200.00		
Transcript of Minutes	100.00		
Rent of Meeting Room	10.50		
Surety Bond	50.00		
Postage	24.00		
		384.50	41,584.50
EXCESS OF REVENUES OVER EXPENDITURES FOR THE FISCAL YEAR ENDED JUNE 30,1972			1,740.74
FUNDS AVAILABLE JULY 1,1971			10,819.28
FUNDS AVAILABLE JULY 1, 1972			$12,560.02

Exhibit "B"

BEAR RIVER COMMISSION

Statement of Available Revenue and Appropriation Thereof
for the Fiscal Year Ended June 30, 1972

	Expected Revenue & Expenditures as Budgeted*	Actual Revenue & Expenditures	Balance or (Deficit) Budget
CASH REVENUES			
Cash Balance	$ 819.28	$ 819.28	$ 0
Savings	10,000.00	10,000.00	0
Balance of Funds June 30, 1971	10,819.28	10,819.28	0
REVENUE:			
Assessments:			
State of Wyoming	14,000.00	14,000.00	0
State of Idaho	14,000.00	14,000.00	0
State of Utah	14,000.00	14,000.00	0
Other Income:			
Interest		1,325.24	1,325.24
	52,819.28	54,144.52	1,325.24
FUNDS FURNISHED BY UNITED STATES GEOLOGICAL SURVEY DIRECT	34,400.00	34,011.00	389.00
Total Funds Available	87,219.28	88,155.52	936.24
APPROPRIATIONS:			
Stream-gauging--Schedule "A-1"	68,800.00	67,411.00	1,389.00
Personal Services	5,962.00	5,962.00	0
Travel and Subsistence	450.00	450.00	0
Fiscal and Administrative	352.00	352.00	0
Washington Office Services	704.00	704.00	0
Office and Supplies	432.00	356.00	76.00
Rent of room for Annual Meeting	0	10.50	(10.50)
Annual Report	500.00	0	500.00
Treasurer's Bond and Audit	300.00	250.00	50.00
Transcript of Minutes	100.00	100.00	0
Legal Retainer Fee	300.00	0	300.00
Total Appropriations	77,900.00	75,595.50	2,304.50
Unappropriated at July 1, 1971	9,319.28	0	9,319.28
Subtotal	87,219.28	75,595.50	11,623.78
Funds Available at June 30, 1972 (Net)	0	12,560.02	12,560.02

*As revised

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, 1972

ALLOCABLE EXPENDITURES

	Total	U.S.G.S.	Bear River Commission	Charged Direct to Bear River Commission	Total Expenses to Bear River Commission
Personal Services	$50,578.00	$25,594.00*	$24,984.00*	$ 5,962.00	$30,946.00
Travel and Subsistence	4,700.00	2,350.00	2,350.00	450.00	2,800.00
General Office	3,036.00	1,518.00	1,518.00	332.00	1,850.00
Fiscal and Administration	3,032.00	1,516.00	1,516.00	352.00	1,868.00
Washington Office	6,065.00	3,033.00	3,032.00	704.00	3,736.00
Totals	$67,411.00	$34,011.00	$33,400.00	$ 7,800.00	$41,200.00

*Unequal distribution of personal services arose because of a supplemental Federal appropriation for salary increases.

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 1972 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 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. Quantities for the month are 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 near Oakley, Utah

LOCATION.--Lat 40°50'30", long 110°55'20", in NE¼ sec.9, T.1 N., R.9 E., Summit County, Wasatch National Forest, 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.

PERIOD OF RECORD.--October 1963 to current year. Prior to October 1965 published as, "at Whitney Dam site."

GAGE.--Water-stage recorder and concrete control with V-notch sharp-crested weir since Aug. 4, 1966. Altitude of gage is 9,120 ft (from topographic map).

AVERAGE DISCHARGE.--6 years (1967-72), 8.69 cfs (6,300 acre-ft per year).

EXTREMES.--Current year: Maximum discharge recorded, 139 cfs June 8 (gage height, 2.86 ft); minimum daily, 0.15 cfs Sept. 21-30.
Period of record: Maximum discharge, 145 cfs June 13, 1965 (gage height, 1.95 ft); maximum gage height, 3.08 ft June 26, 1967; no flow July 24 to Sept. 30, Nov. 16-29, 1966.

REMARKS.--Records good except those for periods of no gage-height record, which are poor. Flow regulated by Whitney Reservoir. Usable capacity between sill of outlet and spillway crest, 4,200 acre-ft. Dead storage 500 acre-ft. Construction of dam began Aug. 1, 1965 and completed October 1966. Storage began July 24, 1966, and reached sill of outlet Nov. 20, 1966. No diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.9	3.4	3.1	1.3	.77	.57	.77	1.1	2.2	14	14	31
2	3.9	3.4	3.1	1.3	.75	.57	.77	1.1	2.3	13	15	31
3	3.9	3.4	3.1	1.3	.73	.66	.77	1.1	2.4	12	14	31
4	3.9	3.3	3.1	1.3	.72	.70	.77	1.1	2.5	11	14	31
5	3.8	3.1	2.0	1.3	.64	.67	.77	1.1	45	10	14	31
6	3.9	3.1	1.3	1.3	.57	.67	.79	1.1	90	9.7	13	31
7	3.5	3.0	1.3	1.3	.57	.67	.83	1.1	100	9.2	13	31
8	3.5	3.0	1.3	1.3	.57	.67	.83	1.1	120	8.6	13	30
9	3.5	3.0	1.3	1.3	.57	.67	.83	1.1	113	8.2	13	15
10	3.5	3.0	1.3	1.3	.57	.67	.83	1.1	81	7.9	13	.50
11	3.3	3.0	1.3	1.6	.56	.67	.88	1.1	75	7.9	12	.40
12	3.2	3.1	3.3	1.6	.54	.67	.96	1.1	73	7.4	12	.30
13	3.1	3.1	1.3	1.4	.54	.67	.94	1.1	71	7.1	12	.20
14	3.1	3.1	1.3	1.4	.54	.67	.93	1.2	68	6.6	12	.20
15	3.2	3.0	1.3	1.4	.54	.67	.93	1.2	61	6.3	12	.20
16	3.3	3.0	1.3	1.4	.54	.67	.94	1.3	55	5.9	12	.20
17	3.3	3.1	1.3	1.4	.54	.67	.96	1.3	53	5.9	12	.20
18	3.3	3.1	1.3	1.4	.54	.67	.89	1.3	52	43	12	.20
19	3.4	3.1	1.3	4.6	.54	.67	.86	1.4	46	84	12	.20
20	3.4	3.1	1.3	.87	.54	.67	1.0	1.4	40	72	12	.20
21	3.4	3.1	1.3	.84	.54	.67	1.0	1.4	36	81	11	.15
22	3.3	3.1	1.3	.92	.54	.68	1.0	1.5	16	72	11	.15
23	3.3	3.1	1.3	.87	.54	.70	1.0	1.5	17	65	11	.15
24	3.3	3.1	1.3	.86	.54	.73	1.0	1.5	22	65	11	.15
25	3.3	3.1	1.3	.85	.54	.74	1.0	1.5	24	65	11	.15
26	3.4	3.1	1.3	.83	.54	.77	1.0	1.6	23	63	11	.15
27	3.4	3.1	1.3	.83	.54	.77	1.0	1.7	20	61	11	.15
28	3.4	3.1	1.3	.80	.56	.77	1.0	1.8	19	61	20	.15
29	3.4	3.1	1.3	.78	.57	.77	1.0	1.9	17	34	32	.15
30	3.4	3.1	1.3	.77	------	.77	1.0	2.0	16	15	32	.15
31	3.4	------	1.3	.77	------	.77	------	2.1	------	15	32	------
TOTAL	106.9	93.4	50.2	39.19	16.79	21.36	27.25	41.9	1,362.4	946.7	449	266.30
MEAN	3.45	3.11	1.62	1.26	.58	.69	.91	1.35	45.4	30.5	14.5	8.88
MAX	3.9	3.4	3.3	4.6	.77	.77	1.0	2.1	120	84	32	31
MIN	3.1	3.0	1.3	.77	.54	.57	.77	1.1	2.2	5.9	11	.15
AC-FT	212	185	100	78	33	42	54	83	2,700	1,880	891	528

CAL YR 1971 TOTAL 3,554.20 MEAN 9.74 MAX 114 MIN .67 AC-FT 7,050
WTR YR 1972 TOTAL 3,421.39 MEAN 9.35 MAX 120 MIN .15 AC-FT 6,790

BEAR RIVER BASIN

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

LOCATION.--Lat 40°57'58", long 110°51'04", in SE¼ sec.30, T.3 N., R.10 E., Summit County, on left bank just downstream from West Fork, 2.8 miles upstream from Utah-Wyoming State line.

DRAINAGE AREA.--176 sq mi.

PERIOD OF RECORD.--July 1942 to current year.

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

AVERAGE DISCHARGE.--30 years, 192 cfs (139,100 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 2,260 cfs June 5 (gage height, 3.43 ft); maximum gage height, 3.63 ft Dec. 14; minimum discharge, 26 cfs Nov. 11.
Period of record: Maximum discharge, 2,980 cfs June 6, 1968 (gage height, 3.79 ft); maximum gage height, 4.27 ft June 6, 1957; minimum discharge determined, 16 cfs Apr. 11, 1951, Nov. 5, 1954, Nov. 1, 1955, Oct. 30, 1956.

REMARKS.--Records good except those for winter periods, which are fair. Flow regulated slightly by Whitney Reservoir completed 1966. Usable capacity 4,200 acre-ft. Three diversions above station for irrigation of about 265 acres above and 2,600 acres below station. Records of chemical analysis for the water year 1971 are published in part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	70	85	75	54	45	46	66	128	1,550	357	100	87
2	70	83	75	54	45	50	68	143	1,600	320	100	87
3	64	83	75	54	45	50	63	193	1,540	290	96	85
4	70	89	75	54	45	50	65	276	1,850	258	85	83
5	74	81	75	54	45	52	70	295	1,810	244	76	96
6	74	70	70	52	47	50	98	295	1,500	228	70	111
7	74	89	70	52	46	52	89	379	1,700	224	68	91
8	72	87	70	52	47	50	87	450	1,810	212	65	85
9	68	85	70	52	47	53	91	478	1,660	200	64	72
10	66	81	70	52	47	56	109	357	1,390	200	62	53
11	65	83	65	50	45	59	143	330	1,400	208	62	51
12	65	83	65	50	45	59	130	325	1,270	186	65	50
13	64	83	65	50	45	62	111	362	1,150	176	65	48
14	64	81	65	50	45	62	102	501	1,070	168	65	47
15	64	76	65	50	42	56	96	670	1,000	165	53	46
16	65	76	60	47	42	61	100	885	966	155	58	46
17	74	78	60	47	42	66	106	995	939	146	62	45
18	72	74	60	47	42	64	102	1,050	957	152	62	45
19	62	72	60	47	44	68	93	1,060	858	186	65	53
20	70	78	60	45	44	65	89	957	786	176	62	62
21	72	85	56	45	44	65	85	786	734	176	59	55
22	68	78	56	45	41	72	87	831	702	162	59	52
23	72	78	56	45	42	74	89	777	670	155	56	52
24	74	76	56	45	41	68	106	894	590	146	55	50
25	83	74	56	45	42	68	122	1,000	534	143	55	50
26	81	78	56	45	44	72	104	1,090	471	143	61	50
27	87	74	56	45	48	59	98	1,120	426	146	58	51
28	78	81	56	45	47	59	111	1,270	414	133	64	62
29	81	76	56	45	46	59	143	1,410	396	120	93	62
30	81	78	56	45	------	65	146	1,470	384	100	89	55
31	87	------	56	45	------	65	------	1,540	------	100	89	------
TOTAL	2,231	2,395	1,966	1,508	1,290	1,857	2,969	22,317	32,127	5,775	2,143	1,882
MEAN	72.0	79.8	63.4	48.6	44.5	59.9	99.0	720	1,071	186	69.1	62.7
MAX	87	89	75	54	48	74	146	1,540	1,850	357	100	111
MIN	62	70	56	45	41	46	63	128	384	100	53	45
AC-FT	4,430	4,750	3,900	2,990	2,560	3,680	5,890	44,270	63,720	11,450	4,250	3,730

CAL YR 1971 TOTAL 87,551 MEAN 240 MAX 2,070 MIN 44 AC-FT 173,700
WTR YR 1972 TOTAL 78,460 MEAN 214 MAX 1,850 MIN 41 AC-FT 155,600

PEAK DISCHARGE (BASE, 1,100 CFS).--May 17 (2130) 1,140 cfs (2.46 ft); June 5 (0

BEAR RIVER BASIN

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

LOCATION.--Lat 41°08'39", long 110°48'18", in SE¼SW¼ sec.35., T.14 N., R.119 W., Uinta County, on right bank 1.2 miles downstream from Willow Creek, 2 miles upstream from Sulphur Creek Dam, and 11.5 miles southeast of Evanston.

DRAINAGE AREA.--64 sq mi, approximately.

PERIOD OF RECORD.--October 1957 to current year. Monthly discharge only for October and November 1957, published in WSP 1734.

GAGE.--Water stage recorder. Altitude of gage is 7,180 ft (from topographic map).

AVERAGE DISCHARGE.--15 years, 14.8 cfs (10,720 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 452 cfs June 5 (gage height, 4.88 ft); maximum gage height, 6.19 ft Mar. 11 (backwater from ice); minimum discharge, 1.6 cfs Aug. 2, 3.
Period of record: Maximum discharge, 1,220 cfs Apr. 21, 1965 (gage height, 6.02 ft); maximum gage height, 6.19 ft Mar. 11, 1972 (backwater from ice); no flow at times most years.

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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	15	6.0	5.0	5.5	7.0	32	45	56	9.9	1.2	.39
2	13	14	6.0	5.0	5.5	7.0	41	48	66	9.2	.68	.42
3	16	18	6.0	5.0	5.5	8.0	40	62	94	10	.68	.45
4	16	13	6.0	5.0	5.5	8.8	45	89	110	10	.57	.51
5	15	11	6.0	5.0	5.5	9.5	54	116	272	9.9	.54	.84
6	14	10	6.0	5.0	5.5	11	100	102	156	9.2	.51	1.6
7	14	10	6.0	5.0	5.5	12	78	121	113	7.4	.48	1.2
8	14	11	6.0	5.0	5.5	13	51	132	112	6.1	.42	.68
9	13	11	6.0	5.0	5.5	14	48	135	116	5.4	.39	.60
10	13	12	6.0	5.0	5.5	16	54	105	81	4.7	.36	.60
11	12	13	6.0	5.0	6.0	17	77	76	61	4.0	.33	.51
12	12	13	6.0	5.0	6.0	20	68	68	42	3.4	.30	.48
13	12	12	6.0	5.0	6.0	24	60	68	29	2.4	.30	.45
14	11	11	6.0	5.0	6.0	31	40	89	24	2.2	.30	.48
15	11	10	6.0	5.0	6.0	38	62	120	22	1.6	.35	.48
16	10	9.0	6.0	5.0	7.0	55	105	144	27	2.0	.39	.51
17	14	9.0	6.0	5.0	7.0	70	138	152	46	1.4	.42	.48
18	15	9.0	6.0	5.0	7.0	85	100	154	45	1.2	.42	.48
19	15	9.0	6.0	5.0	7.0	75	65	135	46	1.0	.45	.60
20	15	9.0	6.0	5.0	7.0	80	69	126	32	1.1	.42	.68
21	14	8.0	6.0	5.5	7.0	90	72	85	26	1.0	.39	.76
22	14	8.0	6.0	5.5	7.0	112	74	80	23	1.0	.36	.68
23	16	8.0	6.0	5.5	7.0	92	62	63	18	1.2	.33	.60
24	17	8.0	6.0	5.5	6.5	60	62	64	18	.84	.33	.60
25	27	8.0	6.0	5.5	6.5	57	66	62	24	.76	.33	.60
26	25	7.0	6.0	5.5	6.5	50	50	74	27	.84	.33	.60
27	21	7.0	6.0	5.5	6.5	37	42	65	20	.92	.33	.68
28	16	7.0	6.0	5.5	6.5	33	45	64	12	1.2	.30	.84
29	13	7.0	6.0	5.5	6.5	30	60	61	12	2.7	.36	1.0
30	15	7.0	6.0	5.5	------	29	65	68	11	2.5	.36	1.2
31	16	------	6.0	5.5	------	30	------	62	------	1.7	.36	------
TOTAL	463	304.0	186.0	160.5	180.0	1,221.3	1,925	2,835	1,743	116.76	13.29	20.00
MEAN	14.9	10.1	6.00	5.18	6.21	39.4	64.2	91.5	55.1	3.77	.43	.67
MAX	27	18	6.0	5.5	7.0	112	138	154	272	10	1.2	1.6
MIN	10	7.0	6.0	5.0	5.5	7.0	32	45	11	.76	.30	.39
AC-FT	918	603	369	318	357	2,420	3,820	5,620	3,460	232	26	40

CAL YR 1971 TOTAL 9,487.00 MEAN 26.0 MAX 215 MIN 1.7 AC-FT 18,820
WTR YR 1972 TOTAL 9,167.85 MEAN 25.0 MAX 272 MIN .30 AC-FT 18,180

BEAR RIVER BASIN

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

LOCATION.--Lat 41°09'22", long 110°50'04", in SE¼SE¼ sec.28, T.14 N., R.119 W., Uinta County, on left bank 400 ft downstream from Sulphur Creek Dam, 6.3 miles upstream from mouth, and 10.5 miles southeast of Evanston.

DRAINAGE AREA.--68 sq mi, approximately.

PERIOD OF RECORD.--April 1958 to current year.

GAGE.--Water-stage recorder and concrete V-notch control. Altitude of gage is 7,120 ft (from topographic map).

AVERAGE DISCHARGE.--6 years (1958-64), 11.2 cfs (8,110 acre-ft per year). 8 years (1964-72), 25.8 cfs (18,690 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 202 cfs June 5 (gage height 3.69 ft); minimum daily, 3.5 cfs Feb. 6.
1958-64: Maximum discharge, 164 cfs June 29, 1959 (gage height, 3.67 ft); no flow at times each year.
1964-72: Maximum discharge, 343 cfs June 11, 1965 (gage height, 4.96 ft); no flow at times each year except 1972.

REMARKS.--Records good except those for period of no gage-height record, which are poor. Flow regulated by Sulphur Creek Reservoir 900 ft upstream (capacity, 7,100 acre-ft). Enlargement completed November 1964. Prior to enlargement (capacity, 4,600 acre-ft). Records prior to 1965 do not include flow over spillway of the dam.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.4	36	5.8	6.1	5.3	37	95	72	74	10	39	43
2	9.4	37	5.4	5.9	5.6	37	94	72	74	10	38	43
3	9.4	37	5.5	5.9	5.5	39	48	71	74	10	42	42
4	9.4	37	5.4	6.1	4.5	38	11	71	74	10	46	42
5	9.4	38	5.1	5.8	3.7	38	11	71	115	10	46	42
6	9.7	37	5.1	5.6	3.5	73	11	71	116	10	50	41
7	18	26	5.3	5.9	3.8	94	11	72	105	10	55	41
8	35	5.0	5.1	5.6	3.9	93	11	72	105	10	55	40
9	36	4.7	4.9	5.6	12	93	11	72	110	10	57	27
10	36	4.6	4.9	5.2	32	93	11	72	90	16	59	4.3
11	36	4.9	4.6	4.7	32	93	11	72	60	21	59	4.4
12	36	4.9	4.4	4.4	32	94	11	72	45	27	58	4.4
13	36	5.1	4.5	4.0	32	95	11	72	30	31	58	4.6
14	36	5.6	5.0	4.1	32	97	11	72	20	29	57	4.6
15	36	5.6	5.5	3.9	32	97	11	72	20	29	57	4.9
16	36	5.6	5.6	3.8	32	97	11	73	30	29	57	4.9
17	36	5.9	5.6	3.9	32	98	11	73	45	32	56	4.9
18	36	5.9	5.4	4.8	32	99	11	74	45	41	57	4.9
19	36	5.9	5.5	5.4	32	100	11	78	45	41	58	4.7
20	36	5.9	5.4	5.4	32	100	11	85	35	41	57	4.6
21	36	5.9	5.3	5.4	33	98	40	84	30	41	57	4.4
22	36	5.9	5.4	5.4	33	103	57	78	25	41	57	4.4
23	37	6.1	5.4	5.4	35	103	56	75	22	41	56	4.4
24	37	6.5	5.4	5.4	37	102	57	74	20	41	56	4.4
25	37	6.5	5.5	5.4	37	102	56	74	20	41	50	4.4
26	37	6.5	5.9	5.4	37	101	61	74	25	41	46	4.4
27	37	6.8	5.9	5.4	37	100	72	74	25	41	46	4.4
28	37	6.8	5.9	5.4	37	98	72	74	20	41	45	6.4
29	37	6.8	6.1	5.4	37	97	72	74	10	41	45	4.1
30	36	7.1	6.1	5.2	------	96	72	74	10	41	44	4.1
31	36	------	5.9	4.3	------	95	------	74	------	41	44	------
TOTAL	944.7	382.5	166.8	160.2	722.8	2,700	1,039	2,288	1,519	878	1,607	457.6
MEAN	30.5	12.8	5.38	5.17	24.9	87.1	34.6	73.8	50.6	28.3	51.8	15.3
MAX	37	38	6.1	6.1	37	103	95	85	116	41	59	43
MIN	9.4	4.6	4.4	3.8	3.5	37	11	71	10	10	38	4.1
AC-FT	1,870	759	331	318	1,430	5,360	2,060	4,540	3,010	1,740	3,190	908

CAL YR 1971 TOTAL 11,287.65 MEAN 30.9 MAX 120 MIN 6 AC-FT 22,390
WTR YR 1972 TOTAL 12,865.60 MEAN 35.2 MAX 116 MIN 3.5 AC-FT 25,520

NOTE.--No gage-height record June 7 to July 12.

BEAR RIVER BASIN

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

LOCATION.--Lat 41°24'24", long 111°02'26", in SE¼ sec.36, T.17 N., R.121 W., Uinta County, on left bank at highway bridge, 6.5 miles downstream from headgates and 10 miles northwest of Evanston.

PERIOD OF RECORD.--April 1942 to current year (prior to October 1944 irrigation seasons only). Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder and flashboard control. Altitude of gage is 6,570 (from river-profile map). Prior to Oct. 11, 1946, nonrecording gage and Oct. 11, 1946 to Aug. 2, 1961, water-stage recorder at site 20 ft downstream at same datum.

AVERAGE DISCHARGE.--28 years (1944-72), 19.6 cfs (14,200 acre-ft per year).

EXTREMES.--Period of record: Maximum daily discharge, 143 cfs June 24, 1970; 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 Saleratus basin, Utah.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	35	1.0	1.0		0	17	39	66	18	13	2.8
2	57	35	1.0	.90		0	18	39	74	15	13	3.1
3	50	35	1.0	.90		0	25	39	83	13	11	2.8
4	49	35	1.0	.30		0	45	41	89	11	6.4	3.3
5	37	6.0	1.0	.80		0	48	45	98	9.1	4.3	4.2
6	36	2.0	1.0	.70		0	51	46	69	11	4.3	18
7	36	1.0	1.0	.60		0	55	46	69	3.6	3.8	39
8	38	1.0	1.0	.50		0	51	39	75	.12	5.3	30
9	38	1.0	1.0	.40		0	48	24	82	0	6.4	33
10	38	1.0	1.0	.30		0	49	22	68	0	4.9	28
11	37	1.0	1.0	.20		0	54	21	45	0	2.4	17
12	35	1.0	1.0	.10		0	58	20	38	0	.36	20
13	39	1.0	1.0	0		0	57	19	31	4.0	.67	19
14	35	1.0	1.0	0		0	55	19	33	7.0	2.8	20
15	39	1.0	1.0	0		0	54	36	29	7.0	.58	19
16	40	1.0	1.0	0		0	56	67	43	6.9	1.4	18
17	46	1.0	1.0	0		0	55	60	60	6.8	2.4	19
18	51	1.0	1.0	0		2.4	48	56	49	6.7	2.5	18
19	46	1.0	1.0	0		.36	44	46	48	6.6	.67	22
20	48	1.0	1.0	0		.20	40	42	44	6.6	4.2	25
21	49	1.0	1.0	0		.12	39	38	41	8.6	4.5	26
22	44	1.0	1.0	0		.04	39	34	36	12	4.7	27
23	42	1.0	1.0	0		0	39	72	31	11	2.8	22
24	42	1.0	1.0	0		0	39	65	26	8.8	1.0	23
25	48	1.0	1.0	0		0	39	64	25	7.8	0	24
26	52	1.0	1.0	0		0	40	56	24	6.8	2.2	23
27	52	1.0	1.0	0		0	39	55	24	6.2	3.6	22
28	36	1.0	1.0	0		4.2	38	54	23	4.7	1.9	26
29	36	1.0	1.0	0		6.6	37	59	23	5.6	4.0	31
30	36	1.0	1.0	0	------	11	39	61	19	6.0	7.4	33
31	34	------	1.0	0	------	13	------	66	------	8.1	4.2	------
TOTAL	1,733	151.0	31.0	7.20	0	37.92	1,316	1,390	1,465	218.02	126.68	618.2
MEAN	55.9	5.37	1.00	.23	0	1.22	43.9	44.8	48.8	7.03	4.09	20.6
MAX	60	35	1.0	1.0	0	13	58	72	98	18	13	39
MIN	36	1.0	1.0	0	0	0	17	19	19	0	0	2.8
AC-FT	3,440	300	61	14	0	75	2,610	2,760	2,910	432	251	1,230

CAL YR 1971 TOTAL 24,444.54 MEAN 66.9 MAX 116 MIN 0 AC-FT 18,770
WTR YR 1972 TOTAL 4,704.33 MEAN 12.8 MAX 98 MIN 0 AC-FT 13,300

BEAR RIVER BASIN

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

LOCATION.--Lat 41°26'05", long 111°01'00", in NW¼NW¼ sec.29, T.17 N., R.120 W., Uinta County, Wyoming, on right bank 9.3 miles upstream from Woodruff Narrows Dam and 10 miles southeast of Woodruff.

DRAINAGE AREA.--780 sq mi, approximately.

PERIOD OF RECORD.--October 1961 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,455 ft (from river-profile map).

AVERAGE DISCHARGE.--11 years, 248 cfs (179,700 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 2,220 cfs June 6 (gage height, 5.50 ft); minimum, 3.4 cfs Aug. 2.
Period of record: Maximum discharge, 3,340 cfs June 13, 14, 1965 (gage height, 5.89 ft); minimum, 0.1 cfs Aug. 24, 1964.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	130	110	105	100	145	340	459	1,520	225	6.2	9.8
2	46	130	110	104	98	155	360	435	1,470	202	5.2	9.3
3	49	130	110	98	95	170	370	465	1,710	175	5.5	9.3
4	53	130	110	96	93	190	266	548	1,760	144	5.5	9.8
5	81	130	110	96	93	225	262	680	1,960	112	4.5	13
6	77	125	110	92	90	280	350	712	2,100	76	5.2	15
7	77	125	110	92	86	340	380	781	2,040	53	5.9	19
8	98	125	110	95	90	420	423	918	2,050	43	5.2	19
9	95	125	110	96	92	460	365	1,010	2,040	43	5.2	17
10	90	125	110	94	93	500	360	978	2,040	39	5.2	15
11	84	120	110	91	93	540	440	838	1,880	37	5.2	13
12	86	120	110	90	94	600	490	769	1,800	31	5.2	11
13	84	120	110	93	98	751	540	712	1,620	28	5.5	12
14	91	120	110	91	103	751	580	775	1,370	36	5.9	12
15	79	120	110	89	105	662	520	966	1,180	36	6.2	13
16	79	120	110	87	112	668	560	1,150	1,030	28	5.9	11
17	93	120	110	81	113	686	660	1,380	1,010	20	6.2	9.3
18	118	120	110	80	113	700	720	1,500	1,020	14	6.6	9.8
19	116	120	110	80	113	751	650	1,550	968	12	6.6	12
20	101	120	110	80	114	584	550	1,560	799	11	6.6	12
21	118	115	115	87	118	524	465	1,380	700	12	6.2	11
22	118	115	115	92	123	566	459	1,180	596	17	6.2	10
23	105	115	115	95	122	632	447	1,040	518	18	5.9	9.3
24	105	115	115	97	130	554	441	1,030	470	15	6.2	8.4
25	132	115	115	97	135	476	445	1,110	441	12	7.0	8.4
26	158	115	115	97	135	476	447	1,180	423	9.8	6.6	7.4
27	158	115	112	102	135	417	417	1,240	380	9.3	6.6	7.9
28	140	115	110	105	130	375	392	1,310	321	8.4	6.2	8.4
29	110	115	108	100	135	355	423	1,400	285	7.4	7.9	8.4
30	100	115	107	100	------	330	482	1,400	262	6.6	8.4	7.9
31	115	------	105	100	------	321	------	1,490	------	7.0	9.3	------
TOTAL	2,970	3,625	3,432	2,902	3,151	14,644	13,604	31,936	35,993	1,487.5	190.0	338.4
MEAN	95.8	121	111	93.6	109	472	453	1,030	1,198	48.0	6.13	11.3
MAX	158	130	115	105	135	751	720	1,560	2,100	225	9.3	19
MIN	34	115	105	80	84	145	262	435	262	6.6	4.5	7.4
AC-FT	5,890	7,190	6,810	5,760	6,250	29,050	26,980	63,350	71,370	2,950	377	671

CAL YR 1971 TOTAL 113,691.3 MEAN 311 MAX 1,930 MIN 3.6 AC-FT 225,500
WTR YR 1972 TOTAL 114,212.9 MEAN 312 MAX 2,100 MIN 4.5 AC-FT 226,500

BEAR RIVER BASIN

10-202. Woodruff Narrows Reservoir near Woodruff, Utah.

LOCATION.--Lat 41°30'10", long 111°00'55", in sec.32, T.18 N., R.120 W., Uinta County, Wyoming, in gate house on dam, 5.6 miles upstream from Wyoming-Utah State line and 7.7 miles east of Woodruff.

DRAINAGE AREA.--810 sq mi, approximately.

PERIOD OF RECORD.--October 1965 to current year.

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

EXTREMES.--Current year: Maximum contents recorded, 31,690 acre-ft May 30, 31 (gage height, 37.5 ft); minimum, 11,000 acre-ft Sept. 28-30.
Period of record: Maximum contents, 32,520 acre-ft June 23-25, 1967 (gage height, 38.0 ft); minimum 6,480 acre-ft Sept. 11-13, 1966.

REMARKS.--Reservoir formed by earth-fill, rock faced dam. Lower portion of spillway cut in natural rock. Storage began Jan. 5, 1962. Total capacity 28,000 acre-ft below spillway crest, which includes 18,240 acre-ft of Compact allocation for irrigation, 4,260 acre-ft of irrigation holdover, 4,000 acre-ft for winter release for fish propogation in Utah, and 1,500 acre-ft of storage for fish propogation in Wyoming. Gage height of spillway is 35.3 ft. Figures given herein represent total contents.

Capacity table (gage height, in feet, and total contents, in acre-feet)

21	10,760	30	20,180
22	11,600	32	23,040
24	13,360	34	25,800
26	15,570	36	29,000
28	17,770	38	32,520

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14,700		24,860					29,370				11,520
2			25,010					29,370				11,270
3			25,170									11,270
4			25,340									11,270
5			25,500									11,270
6	14,690											11,270
7	14,700											11,270
8	14,800									22,310		11,270
9	14,900	20,270								21,320		11,270
10	14,900	20,360								20,270		11,270
										19,480		11,360
11	15,110	20,700										
12	15,110	21,040								19,000		11,360
13	15,220	21,460								18,760		11,360
14	15,340	21,740								18,510		11,360
15	15,450	22,020	27,020							18,510	17,130	11,360
										18,390	17,020	11,360
16	15,570	22,170										
17	15,670	22,450								18,260	17,020	11,270
18	15,780	22,590								18,130	17,020	11,270
19		22,740								18,000	17,020	11,270
20		22,890		28,120							16,920	11,180
											16,920	11,180
21		23,160										
22		23,290									17,020	11,180
23		23,520									16,920	11,190
24		23,660									16,810	11,090
25		23,760									16,810	11,090
											16,710	11,090
26		23,890										
27		24,140					29,370				16,710	11,090
28		24,260					29,370				16,240	11,090
29		24,560					29,370				15,220	11,020
30		24,710			28,560		29,370				14,260	11,000
31	18,510	------	27,550	28,260	------	28,860	------	31,690	23,640		13,270	11,000
								31,690	------	17,550	12,410	------
MAX												
MIN												11,520
(+)	28.6	33.3	35.0	35.5	35.7	35.9	36.2	37.5	32.5	27.8	22.9	11,000
(‡)	+3,810	+6,200	+2,840	+710	+300	+300	+510	+2,320	-8,050	-6,090	-5,140	21.3
												-1,410

CAL YR 1971..... ‡ +4,030
WTR YR 1972..... ‡ -3,700

\+ 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., Uinta County, Wyoming, on right bank, 1,100 ft below Woodruff Narrows Dam, 1.6 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.

PERIOD OF RECORD.--October 1961 to current year.

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.--11 years, 242 cfs (175,300 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 2,660 cfs June 8 (gage height, 7.54 ft); minimum daily, 6.2 cfs Aug. 18.
Period of record: 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 (see sta 10020200). Diversions for irrigation of about 43,500 acres above station. Records of chemical analysis for the 1972 water year are published in part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	29	34	105	100	147	334	436	1,470	543	7.0	480
2	25	29	34	105	98	154	339	433	1,550	540	6.8	163
3	26	29	34	100	96	170	354	432	1,630	539	7.0	13
4	26	29	34	97	95	189	332	453	1,720	536	6.6	12
5	26	30	35	97	93	227	298	517	1,780	531	7.4	12
6	26	30	34	91	91	319	295	603	2,070	527	6.7	11
7	27	29	35	94	87	387	372	650	2,270	524	7.9	12
8	27	31	35	96	91	416	418	735	2,460	520	8.6	12
9	27	31	35	98	90	442	391	831	2,390	515	8.6	12
10	27	31	35	96	94	473	369	908	2,340	510	8.2	12
11	27	31	35	92	94	520	386	879	2,140	291	7.8	13
12	27	32	36	89	96	592	460	807	1,780	71	7.5	13
13	27	32	36	95	99	654	533	759	1,680	71	7.9	13
14	27	32	36	91	104	698	558	730	1,530	71	7.5	13
15	27	32	36	89	108	687	518	790	1,340	71	6.3	13
16	27	30	36	88	113	661	523	915	1,130	71	6.5	13
17	27	32	36	76	114	657	612	1,070	993	71	6.9	13
18	27	32	36	79	115	667	713	1,260	994	71	6.2	13
19	27	30	36	78	117	681	686	1,400	971	71	6.8	12
20	27	32	37	87	116	658	604	1,480	894	70	7.0	12
21	27	33	37	87	118	581	535	1,480	792	42	13	21
22	28	33	44	95	127	542	490	1,320	697	24	20	30
23	28	33	71	96	125	558	462	1,180	606	24	19	29
24	28	33	86	99	134	576	439	1,090	535	23	20	29
25	28	33	105	98	137	526	426	1,070	503	23	20	29
26	28	33	109	100	136	488	434	1,060	461	23	20	30
27	28	33	109	104	133	462	426	1,150	424	23	227	31
28	28	33	110	105	132	422	411	1,220	379	23	516	31
29	29	33	109	98	138	390	401	1,300	597	23	508	31
30	29	34	106	102	------	363	416	1,360	621	23	498	31
31	29	------	105	102	------	345	------	1,420	------	16	490	------
TOTAL	841	944	1,696	2,929	3,191	14,652	13,535	29,738	38,747	6,481	2,496.2	1,159
MEAN	27.1	31.5	54.7	94.5	110	473	451	959	1,292	209	80.5	38.6
MAX	29	34	110	105	138	698	713	1,480	2,460	543	516	480
MIN	24	29	34	76	87	147	295	432	379	16	6.2	11
AC-FT	1,670	1,870	3,360	5,810	6,330	29,060	26,850	58,990	76,850	12,860	4,950	2,300

CAL YR 1971 TOTAL 105,819.0 MEAN 290 MAX 1,950 MIN 1.4 AC-FT 209,900
WTR YR 1972 TOTAL 116,409.2 MEAN 318 MAX 2,460 MIN 6.2 AC-FT 230,900

BEAR RIVER BASIN

10-265. Bear River near Randolph, Utah

LOCATION.--Lat 41°48'02", long 111°04'20", in SE¼NE¼ sec.7, T.12 N., R.8 E., Rich County, on left bank 3.5 miles upstream from Twin Creek, 4.8 miles upstream from Utah-Wyoming State line, and 11 miles northeast of Randolph.

DRAINAGE AREA.--1,640 sq mi, approximately.

PERIOD OF RECORD.--October 1943 to current year. 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.--29 years, 199 cfs (144,200 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 2,280 cfs June 12 (gage height, 7.81 ft); minimum daily, 55 cfs Sept. 10.
Period of record: Maximum discharge, 2,660 cfs May 8, 1952; maximum gage height, 8.99 ft June 17, 1965; minimum discharge, 1.6 cfs Nov. 12, 1961.

REMARKS.--Records good except those for winter months, which are fair. Diversion for irrigation of about 94,500 acres above station. Flow regulated by Woodruff Narrows Reservoir beginning January 1962 (see sta 10020200). Records of chemical analysis for the water year 1972 are published in part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	113	90	95	145	130	175	546	622	916	306	94	117
2	113	105	95	143	130	250	529	625	1,050	289	94	120
3	109	115	95	142	130	340	524	635	1,180	282	91	121
4	113	110	95	140	130	410	522	638	1,370	282	90	96
5	110	110	95	140	130	520	519	638	1,550	280	87	75
6	106	110	85	130	130	680	512	660	1,610	254	90	68
7	105	110	85	130	130	840	490	744	1,660	248	87	65
8	103	110	85	130	130	1,050	493	801	1,730	254	80	60
9	103	110	85	130	130	1,180	541	849	1,880	246	78	58
10	102	110	85	130	130	1,200	555	926	2,130	236	78	55
11	102	110	85	125	140	1,190	558	1,020	2,260	228	76	56
12	102	110	85	125	140	1,130	590	1,080	2,260	227	74	64
13	102	110	85	125	140	1,140	622	1,090	2,210	192	72	65
14	102	110	85	125	140	1,180	690	1,060	2,140	159	72	79
15	102	110	85	125	140	1,190	768	980	2,020	144	68	80
16	102	110	85	115	150	1,180	798	916	1,930	144	65	80
17	105	110	85	115	150	1,150	765	786	1,830	117	64	80
18	110	110	85	115	150	1,100	768	798	1,640	110	63	80
19	110	110	85	115	150	1,050	852	852	1,400	98	61	83
20	109	110	85	115	150	980	912	916	1,130	150	63	86
21	107	110	85	120	160	964	894	849	870	151	63	84
22	112	110	85	130	160	926	822	870	786	150	61	83
23	113	110	85	130	160	840	741	933	620	138	59	83
24	114	110	85	130	160	765	705	988	481	126	60	83
25	114	110	95	130	160	765	693	988	490	114	63	86
26	113	105	110	130	170	762	663	741	465	114	60	88
27	117	105	130	130	170	708	660	638	427	109	59	95
28	102	105	140	130	170	663	645	588	393	109	59	105
29	88	105	145	130	170	632	640	650	370	109	98	107
30	90	105	150	130	------	600	630	735	363	96	121	107
31	90	------	150	130	------	572	------	822	------	92	110	------
TOTAL	3,281	3,255	3,010	3,980	4,230	26,132	19,647	25,238	39,161	5,554	2,360	2,509
MEAN	106	109	97.1	128	146	843	655	817	1,305	179	76.1	83.6
MAX	117	115	150	145	170	1,200	912	1,080	2,260	306	121	121
MIN	88	90	85	115	130	175	490	588	363	92	59	55
AC-FT	6,510	6,460	5,970	7,890	8,390	51,830	38,970	50,060	77,680	11,020	4,680	4,980

CAL YR 1971 TOTAL 120,236 MEAN 329 MAX 1,480 MIN 31 AC-FT 238,500
WTR YR 1972 TOTAL 139,467 MEAN 378 MAX 2,260 MIN 55 AC-FT 276,600

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., Lincoln County, 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.

PERIOD OF RECORD.--October 1941 to November 1943 (published as Bear River near Cokeville), October 1952 to September 1956, May 1958 to current year (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.--Current season: Maximum discharge, 1,690 cfs June 13 (gage height, 9.40 ft); minimum daily, 43 cfs Aug. 31.
Period of record: 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 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								672	592	427	118	56
2								660	682	413	117	65
3								668	783	396	118	70
4								670	861	398	114	76
5								675	1,060	405	111	73
6								689	1,250	411	112	64
7								732	1,330	361	114	59
8								806	1,310	364	108	155
9								929	1,310	357	104	96
10								915	1,340	338	100	83
11								945	1,490	320	96	77
12								984	1,630	296	92	77
13								1,010	1,680	291	91	82
14								1,020	1,680	256	86	88
15								1,010	1,670	208	85	102
16								975	1,630	187	78	103
17								912	1,580	210	79	102
18								819	1,540	185	82	102
19								832	1,480	179	78	104
20								806	1,400	185	77	103
21								742	1,230	208	77	104
22								806	944	207	77	102
23								819	806	204	74	100
24								829	694	175	73	99
25								848	610	159	76	99
26								822	581	150	82	102
27								732	522	150	81	104
28								575	491	142	68	110
29								555	451	140	59	120
30					------			590	435	132	99	123
31		------			------		------	579	------	120	43	------
TOTAL								24,626	33,062	7,974	2,769	2,900
MEAN								794	1,102	257	89.3	93.3
MAX								1,020	1,680	427	118	155
MIN								555	435	120	43	56
AC-FT								48,850	65,580	15,820	5,490	5,550

THE SEASON AC-FT 141,300

BEAR RIVER BASIN

10-320. Smiths Fork near Border, Wyo.

LOCATION.--Lat 42°16'52", long 110°52'05", in NW¼ sec.33, T.27 N., R.118 W., Lincoln County, on left bank 4.5 miles upstream from Howland Creek, 6 miles downstream from Hobble Creek, and 12 miles northeast of Border.

DRAINAGE AREA.--165 sq mi.

PERIOD OF RECORD.--May 1942 to current year.

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.--30 years, 198 cfs (143,500 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,440 cfs June 7 (gage height, 5.30 ft); minimum, 47 cfs Jan. 12.
Period of record: Maximum discharge, 1,610 cfs June 18, 1971 (gage height, 5.61 ft); minimum recorded, 35 cfs Mar. 21, 1955, result of freezeup.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	144	108	81	78	68	67	87	311	1,360	670	268	165
2	138	106	77	78	68	68	92	308	1,400	646	265	165
3	134	106	82	72	68	69	95	347	1,380	618	257	159
4	134	103	78	64	71	65	100	459	1,360	586	245	154
5	132	105	78	70	73	65	106	582	1,350	560	237	165
6	130	93	82	68	76	67	140	628	1,410	538	234	194
7	128	98	82	66	81	68	156	722	1,420	512	230	163
8	126	100	80	66	74	65	161	775	1,400	504	230	152
9	124	98	75	66	74	64	174	722	1,340	487	224	150
10	122	98	75	60	70	68	185	665	1,340	471	220	146
11	122	98	80	60	71	69	200	679	1,260	459	220	142
12	121	100	84	53	70	71	207	688	1,230	440	217	140
13	119	103	78	70	72	74	194	741	1,180	428	220	138
14	119	100	78	66	72	80	174	830	1,120	417	217	138
15	122	96	78	66	72	80	171	959	1,060	402	214	134
16	124	95	82	70	71	80	182	1,080	1,060	392	212	132
17	130	92	84	70	68	83	207	1,140	1,070	381	207	128
18	128	84	84	70	72	92	198	1,140	1,040	374	203	126
19	121	89	84	80	71	98	187	1,140	954	357	203	134
20	119	93	84	83	70	95	176	1,230	876	350	196	132
21	117	90	84	84	68	93	171	1,200	835	347	194	126
22	115	90	86	78	68	98	169	1,120	825	330	189	124
23	113	89	87	69	67	105	174	991	815	321	187	122
24	115	89	84	71	67	101	196	912	820	311	187	121
25	115	89	84	72	64	103	232	886	815	301	185	122
26	113	84	84	74	63	96	227	922	736	301	180	121
27	117	92	78	72	67	89	245	948	693	295	174	122
28	115	89	74	70	67	87	292	1,030	670	289	169	126
29	105	89	78	68	68	90	360	1,130	670	277	167	119
30	109	86	78	68	------	87	360	1,210	674	271	171	117
31	110	------	78	68	------	83	------	1,280	------	271	165	------
TOTAL	3,780	2,852	2,501	2,170	2,031	2,520	5,618	26,775	32,163	12,906	6,487	4,177
MEAN	122	95.1	80.7	70.0	70.0	81.3	187	864	1,072	416	209	139
MAX	144	108	87	84	81	105	360	1,280	1,420	670	268	194
MIN	105	84	74	53	53	64	87	308	670	271	165	117
AC-FT	7,500	5,660	4,960	4,300	4,030	5,000	11,140	53,110	63,800	25,600	12,870	8,290

CAL YR 1971 TOTAL 115,334 MEAN 316 MAX 1,570 MIN 62 AC-FT 228,800
WTR YR 1972 TOTAL 103,980 MEAN 284 MAX 1,420 MIN 53 AC-FT 206,200

BEAR RIVER BASIN

10-395. Bear River at Border, Wyoming

LOCATION.--Lat 42°12'40", long 111°03'11", in NE¼NE¼ sec.15, T.14 S., R.46 E., Bear Lake County, Idaho, on left bank 0.2 mile west of Wyoming-Idaho State line, 0.5 mile west of Border, and 2.1 miles upstream from Thomas Fork.

DRAINAGE AREA.--2,490 sq mi, approximately.

PERIOD OF RECORD.--October 1937 to current year.

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

AVERAGE DISCHARGE.--35 years, 420 cfs (304,300 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 3,290 cfs June 18 (gage height, 8.64 ft); minimum daily, 218 cfs Sept. 1.
Period of record: 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. Records of chemical analysis for the water year 1972 are published in part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	314	292	260	280	255	380	892	1,260	1,740	1,260	338	218
2	319	285	260	290	255	360	888	1,240	1,840	1,210	326	224
3	310	280	260	290	255	400	892	1,210	1,980	1,180	317	226
4	305	280	260	290	255	440	904	1,220	2,080	1,140	319	228
5	303	270	260	290	255	500	912	1,290	2,170	1,120	317	240
6	303	260	250	280	255	600	928	1,400	2,410	1,120	299	263
7	299	245	250	280	255	710	996	1,480	2,620	1,020	294	255
8	294	270	250	280	255	790	996	1,660	2,810	964	290	239
9	288	290	250	280	255	880	944	1,850	3,000	896	283	299
10	285	285	250	280	255	950	964	1,970	3,030	872	263	263
11	279	280	240	265	255	1,050	980	1,920	3,020	828	257	253
12	277	295	230	265	255	1,600	1,120	1,920	3,040	787	263	242
13	272	310	230	265	255	2,700	1,200	1,920	3,080	743	263	238
14	270	310	230	265	255	2,400	1,210	1,960	3,150	708	263	238
15	277	310	230	265	275	1,890	1,210	2,020	3,210	629	261	248
16	285	310	230	265	300	1,680	1,260	2,130	3,240	567	253	274
17	299	270	230	265	310	1,620	1,350	2,210	3,250	523	248	272
18	308	240	230	265	310	1,600	1,350	2,280	3,270	511	240	270
19	305	305	230	265	310	1,580	1,330	2,250	3,240	478	238	272
20	299	305	230	265	310	1,540	1,350	2,250	3,120	458	240	266
21	288	280	225	260	310	1,520	1,390	2,220	2,890	470	236	255
22	290	285	225	260	310	1,480	1,400	2,180	2,600	475	236	253
23	288	280	225	260	310	1,450	1,360	2,170	2,240	452	234	251
24	290	275	225	260	310	1,400	1,320	2,080	1,980	447	234	248
25	294	280	225	260	310	1,320	1,280	1,960	1,880	416	234	251
26	294	250	225	260	320	1,240	1,250	1,900	1,730	392	238	257
27	301	270	225	260	320	1,180	1,160	1,840	1,560	384	236	255
28	321	250	225	260	320	1,110	1,170	1,740	1,440	384	236	261
29	285	260	225	260	340	1,030	1,230	1,600	1,350	369	240	266
30	240	260	240	260	------	984	1,260	1,630	1,300	362	230	266
31	275	------	250	260	------	928	------	1,710	------	355	251	------
TOTAL	9,057	8,382	7,375	8,350	8,235	37,312	34,496	56,470	74,270	21,520	8,177	7,590
MEAN	292	279	238	269	284	1,204	1,150	1,822	2,476	694	264	253
MAX	321	310	260	290	340	2,700	1,400	2,280	3,270	1,260	338	299
MIN	240	240	225	260	255	360	888	1,210	1,300	355	230	218
AC-FT	17,960	16,630	14,630	16,560	16,330	74,010	68,420	112,000	147,300	42,680	16,220	15,050

CAL YR 1971 TOTAL 287,171 MEAN 787 MAX 2,400 MIN 205 AC-FT 569,600
WTR YR 1972 TOTAL 281,234 MEAN 768 MAX 3,270 MIN 218 AC-FT 557,800

BEAR RIVER BASIN

10-460. Rainbow inlet canal near Dingle, Idaho

LOCATION.--Lat 42°13'48", long 111°17'43", in SE¼ sec.3, T.14 S., R.44 E., Bear Lake County, on left bank 1.5 miles west of Dingle and 1.8 miles downstream from headworks at Stewart Dam.

PERIOD OF RECORD.--January 1922 to current year. Monthly discharge only prior to October 1945, published in WSP 1314.

GAGE.--Water-stage recorder. Elevation of gage datum is 5,922.0 ft above mean sea level (by topographic survey). Prior to Oct. 1, 1923, at site 300 ft downstream at different datum; Oct. 1, 1923 to Oct. 27, 1944, at site 0.5 mile downstream at different datum.

AVERAGE DISCHARGE.--50 years, 330 cfs (239,100 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 2,780 cfs June 21 (gage height, 7.15 ft); minimum, 126 cfs Sept. 12.
Period of record: Maximum discharge, 4,180 cfs May 7, 1952 (gage height, 8.62 ft); minimum daily, 1 cfs on several days in 1931, 1934, 1940, 1948.

REMARKS.--Records good. Discharge measurements generally made three to five 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	299	296	195	237	257	361	1,000	1,580	1,640	1,150	355	197
2	317	314	193	234	269	361	1,000	1,580	1,660	1,080	331	189
3	314	312	192	232	264	385	1,010	1,570	1,730	1,030	331	182
4	309	290	197	229	258	413	1,000	1,550	1,840	1,000	310	183
5	312	265	209	226	246	432	1,030	1,500	1,910	960	308	193
6	312	265	235	224	246	479	1,060	1,570	2,010	939	280	221
7	309	257	203	221	253	566	1,120	1,660	2,100	916	260	238
8	328	233	222	224	250	672	1,220	1,770	2,230	855	243	237
9	322	291	215	222	244	730	1,180	1,960	2,350	854	242	217
10	304	299	199	222	266	872	1,160	2,120	2,490	814	255	223
11	293	306	192	236	295	999	1,210	2,190	2,580	766	253	210
12	288	342	197	233	263	1,040	1,270	2,270	2,630	736	250	217
13	286	336	210	230	263	1,300	1,420	2,260	2,600	721	255	235
14	278	336	222	226	265	2,060	1,500	2,250	2,580	701	259	227
15	275	331	222	223	265	2,290	1,480	2,260	2,620	657	256	235
16	290	322	224	220	266	2,060	1,490	2,250	2,570	582	256	233
17	328	293	223	204	269	1,790	1,530	2,310	2,630	533	249	241
18	342	312	217	200	270	1,720	1,610	2,350	2,690	489	245	245
19	344	328	199	217	264	1,710	1,620	2,430	2,730	440	244	254
20	344	296	188	234	258	1,700	1,610	2,500	2,730	424	239	248
21	336	320	192	251	280	1,650	1,620	2,460	2,760	428	235	247
22	336	326	201	255	294	1,620	1,640	2,420	2,670	418	237	240
23	325	291	226	259	297	1,590	1,620	2,380	2,610	421	230	240
24	325	296	217	263	300	1,570	1,600	2,340	2,440	436	231	247
25	325	293	226	267	282	1,480	1,560	2,310	2,250	445	227	253
26	331	270	233	272	319	1,400	1,530	2,170	2,010	418	210	256
27	333	280	255	269	332	1,320	1,520	2,050	1,820	316	187	243
28	342	278	273	266	335	1,260	1,470	1,960	1,480	379	188	230
29	350	288	272	264	345	1,210	1,490	1,840	1,340	358	187	254
30	320	283	206	262	------	1,100	1,560	1,670	1,230	348	184	286
31	291	------	226	259	------	1,060	------	1,600	------	348	187	------
TOTAL	9,817	8,728	6,695	7,181	8,015	37,200	41,130	63,130	66,930	19,962	7,724	6,921
MEAN	317	282	210	238	267	1,200	1,371	2,036	2,231	644	249	231
MAX	350	342	273	272	345	2,290	1,640	2,500	2,760	1,150	365	286
MIN	275	212	132	200	244	361	1,000	1,500	1,230	316	184	182
AC-FT	19,470	17,310	13,280	14,240	15,900	73,790	81,580	125,200	132,800	39,590	15,320	13,730

CAL YR 1971 TOTAL 274,125 MEAN 751 MAX 2,790 MIN 121 AC-FT 543,700
WTR YR 1972 TOTAL 283,463 MEAN 774 MAX 2,760 MIN 132 AC-FT 562,200

BEAR RIVER BASIN

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

LOCATION.--Lat 42°15'14", long 111°17'35", in NE¼ sec.34, T.13 S., R.44 E., Bear Lake County, on right bank 300 ft downstream from Stewart Dam and 4.5 miles south of Montpelier.

DRAINAGE AREA.--2,820 sq mi, approximately.

PERIOD OF RECORD.--January 1922 to current year. 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.--50 years, 50.9 cfs (36,880 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 20 cfs June 29 (gage height, 1.53 ft); minimum, 2.8 cfs Sept. 8
Period of record: Maximum daily discharge, 3,050 cfs June 3, 1923; no flow July 15, 1956.

REMARKS.--Records good. Discharge measurements generally made once a week. Water diverted at Stewart Dam through Rainbow inlet canal (see station 10046000) 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	8.4	7.4	5.3	4.7	5.9	4.4	5.6	12	20	15	11
2	12	8.0	6.2	5.3	3.8	8.4	4.0	5.6	13	19	15	11
3	12	8.0	5.9	5.6	3.4	8.4	3.8	6.2	14	19	15	11
4	12	8.0	6.2	5.6	3.0	8.8	3.8	7.1	14	19	15	11
5	12	8.0	5.9	5.6	2.9	8.8	3.8	9.6	15	18	15	11
6	12	7.7	6.5	5.0	2.9	10	4.0	10	15	18	15	7.6
7	12	7.4	6.8	5.3	2.9	7.7	4.0	11	16	17	14	3.0
8	11	7.6	6.5	5.0	3.4	9.2	4.0	11	16	17	14	5.0
9	11	7.7	5.9	4.8	3.4	9.6	4.0	12	16	17	14	9.5
10	11	7.7	5.6	4.6	3.4	11	4.2	12	18	16	14	9.3
11	10	7.7	5.0	4.6	3.4	12	3.8	13	18	15	14	9.3
12	10	8.0	4.6	4.4	3.4	11	4.0	12	18	14	14	8.0
13	11	8.0	4.4	4.2	3.6	14	4.2	13	18	14	14	8.9
14	10	8.0	4.8	4.2	3.6	20	4.2	12	18	13	13	8.9
15	10	8.0	5.4	4.2	3.6	16	4.6	14	18	12	13	8.9
16	10	8.0	5.6	3.8	3.8	12	4.6	12	18	11	13	8.9
17	10	8.0	5.9	3.8	4.2	9.6	4.6	14	18	9.4	13	8.8
18	10	7.4	5.9	3.8	4.4	9.6	5.0	14	20	8.2	12	8.8
19	10	7.4	5.6	3.7	4.4	9.6	5.2	14	20	6.6	12	8.8
20	9.6	7.7	5.3	3.8	4.6	9.2	5.0	13	20	9.0	12	8.9
21	9.6	7.4	5.0	4.6	5.3	8.8	5.0	14	19	15	12	8.8
22	8.8	7.1	5.0	5.6	5.3	8.0	5.0	14	19	16	11	8.5
23	8.2	7.1	5.0	6.8	5.9	7.7	5.3	14	18	16	12	8.3
24	8.8	7.4	4.8	7.4	5.9	6.8	5.9	14	17	16	12	8.5
25	9.4	7.4	5.0	8.0	5.9	6.8	5.6	15	16	17	12	8.7
26	9.6	7.7	5.3	7.7	6.5	6.2	5.6	15	16	17	11	9.0
27	9.6	8.0	5.3	7.1	6.5	5.7	5.6	14	16	17	11	9.1
28	10	8.0	5.2	6.5	6.8	5.6	5.6	12	18	16	11	9.0
29	9.6	7.7	5.3	6.2	7.1	5.0	5.6	12	20	16	11	9.4
30	9.6	7.7	5.0	5.6	------	4.6	5.6	12	20	16	11	10
31	9.2	------	5.0	4.6	------	4.4	------	12	------	15	11	------
TOTAL	322.0	232.0	171.6	152.7	127.5	280.4	140.0	369.1	514	468.2	401	266.9
MEAN	10.4	7.73	5.54	4.92	4.40	9.05	4.67	11.9	17.1	15.1	12.9	8.90
MAX	13	8.4	7.4	8.0	7.1	20	5.9	15	20	20	15	11
MIN	8.8	7.1	4.4	3.7	2.9	4.4	3.8	5.6	12	6.6	11	3.0
AC-FT	639	460	340	303	253	556	278	732	1,020	929	795	529

CAL YR 1971 TOTAL 20,509.8 MEAN 56.2 MAX 751 MIN 1.3 AC-FT 40,680
WTR YR 1972 TOTAL 3,455.4 MEAN 9.44 MAX 20 MIN 2.9 AC-FT 6,950

BEAR RIVER BASIN

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

LOCATION.--Lat 42°07'16", long 111°18'52", in NE¼ sec.16, T.15 S., R.44 E., Bear Lake County, in Lifton pumping plant of Utah Power & Light Company, 3.5 miles east of St. Charles.

DRAINAGE AREA.--435 sq mi, approximately (does not include Mud Lake drainage).

PERIOD OF RECORD.--October 1903 to June 1906 (elevations only), January 1921 to current year. Monthly contents only January 1921 to September 1945 published in WSP 1314. Published as Bear Lake at Fish Haven 1903-06.

GAGE.--Water-stage recorder. Datum of gage is 5,900 ft above mean sea level, unadjusted (Utah Power & Light Company datum). October 1903 to June 1906, staff gage at different site and datum.

EXTREMES.--Current year: Maximum contents, 1,403,000 acre-ft June 8 (elevation, 5,923.39 ft); minimum, 1,081,000 acre-ft Feb. 29-Mar. 11 (elevation, 5,918.79 ft).
Period of record: Maximum contents, 1,423,000 acre-ft June 10, 1923 (elevation, 5,923.68 ft); no usable contents Nov. 9-19, 1935 (elevation, 5,902.00 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 10046000). Water from Mud Lake reaches Bear Lake by a sluice at pumping plant or by gates in causeway at south end of Mud Lake. Capacity, 1,421,000 acre-feet between elevation 5,902.00 (lower limit of pumps) and 5,923.65 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.

Capacity table (elevation, in feet, and usable contents, in acre-feet)

5,918.50	1,060,400	5,921.00	1,234,900
5,919.00	1,095,200	5,921.50	1,269,900
5,919.50	1,130,000	5,922.00	1,305,000
5,920.00	1,164,900	5,922.50	1,340,100
5,920.50	1,199,900	5,923.00	1,375,400
		5,923.40	1,403,600

CONTENTS, IN THOUSANDS OF ACRE-FEET, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,232	1,195	1,159	1,121	1,104	1,081	1,129	1,205	1,303	1,398	1,363	1,287
2	1,230	1,194	1,158	1,120	1,104	1,081	1,130	1,206	1,306	1,397	1,361	1,285
3	1,228	1,192	1,157	1,119	1,103	1,081	1,131	1,208	1,311	1,396	1,361	1,282
4	1,226	1,190	1,155	1,118	1,102	1,081	1,133	1,208	1,315	1,396	1,359	1,280
5	1,224	1,189	1,154	1,117	1,100	1,081	1,134	1,209	1,320	1,395	1,358	1,279
6	1,223	1,187	1,152	1,116	1,099	1,081	1,136	1,210	1,326	1,394	1,356	1,278
7	1,222	1,186	1,150	1,115	1,099	1,081	1,138	1,212	1,332	1,394	1,355	1,276
8	1,220	1,184	1,148	1,114	1,098	1,081	1,140	1,213	1,339	1,393	1,354	1,273
9	1,219	1,183	1,147	1,113	1,097	1,081	1,142	1,215	1,346	1,392	1,351	1,271
10	1,217	1,182	1,145	1,113	1,097	1,081	1,143	1,217	1,350	1,390	1,346	1,270
11	1,216	1,181	1,145	1,112	1,096	1,081	1,145	1,220	1,353	1,390	1,343	1,268
12	1,215	1,181	1,144	1,112	1,094	1,082	1,148	1,222	1,355	1,388	1,340	1,267
13	1,213	1,180	1,143	1,111	1,094	1,082	1,150	1,224	1,357	1,387	1,337	1,265
14	1,212	1,180	1,141	1,110	1,093	1,083	1,154	1,228	1,359	1,385	1,335	1,263
15	1,210	1,180	1,140	1,110	1,092	1,083	1,158	1,231	1,361	1,384	1,333	1,262
16	1,210	1,179	1,139	1,109	1,092	1,084	1,162	1,236	1,363	1,382	1,331	1,259
17	1,209	1,178	1,138	1,108	1,091	1,085	1,167	1,242	1,366	1,382	1,329	1,257
18	1,208	1,176	1,137	1,108	1,090	1,087	1,172	1,248	1,369	1,380	1,326	1,254
19	1,207	1,174	1,136	1,108	1,089	1,089	1,179	1,252	1,373	1,379	1,324	1,251
20	1,206	1,172	1,134	1,108	1,088	1,091	1,184	1,257	1,375	1,378	1,321	1,248
21	1,204	1,170	1,132	1,107	1,088	1,094	1,190	1,262	1,378	1,375	1,318	1,245
22	1,203	1,169	1,131	1,107	1,086	1,097	1,194	1,267	1,380	1,373	1,314	1,243
23	1,201	1,167	1,129	1,107	1,085	1,102	1,197	1,272	1,382	1,372	1,311	1,240
24	1,201	1,165	1,128	1,107	1,085	1,105	1,199	1,276	1,386	1,370	1,307	1,238
25	1,200	1,164	1,127	1,107	1,084	1,109	1,201	1,280	1,390	1,369	1,303	1,236
26	1,199	1,162	1,126	1,106	1,083	1,113	1,201	1,284	1,396	1,368	1,299	1,234
27	1,198	1,161	1,125	1,106	1,083	1,117	1,202	1,287	1,398	1,366	1,297	1,231
28	1,198	1,161	1,124	1,106	1,082	1,120	1,203	1,291	1,403	1,366	1,295	1,229
29	1,198	1,160	1,124	1,106	1,081	1,122	1,203	1,294	1,399	1,365	1,293	1,226
30	1,197	1,159	1,122	1,106	------	1,125	1,204	1,296	1,398	1,364	1,292	1,224
31	1,196	------	1,122	1,105	------	1,127	------	1,299	------	1,363	1,290	------
MAX	1,232	1,195	1,159	1,121	1,104	1,127	1,204	1,299	1,403	1,398	1,363	1,287
MIN	1,196	1,159	1,122	1,105	1,081	1,081	1,129	1,205	1,303	1,363	1,290	1,224
(†)	5,920.45	5,919.92	5,919.38	5,919.14	5,918.80	5,919.46	5,920.56	5,921.92	5,923.32	5,922.83	5,921.78	5,920.85
(‡)	-38.0	-37.0	-37.0	-17.0	-24.0	+46.0	+77.0	+95.0	+99.0	-35.0	-73.0	-66.0

CAL YR 1971..... ‡ +14.0
WTR YR 1972..... ‡ -10.0

† Elevation, 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°20'35", in SW¼ sec.8, T.14 S., R.44 E., Bear Lake County, on right bank 2,000 ft downstream from headgates (at dike) and 3 miles southeast of Paris.

PERIOD OF RECORD.--January 1922 to current year. Monthly discharge only January 1922 to September 1945, published in WSP 1314.

GAGE.--Water-stage recorder. Elevation of gage datum is 5,912.6 ft above mean sea level (from topographic survey).

AVERAGE DISCHARGE.--50 years, 357 cfs (258,600 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,660 cfs June 27 (gage height, 19.43 ft); minimum daily, 22 cfs on many days.
Period of record: 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. Discharge measurements generally made five or 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	991	974	883	862	905	915	596	1,020	368	1,550	1,390	1,170
2	819	924	859	862	915	840	602	987	75	1,480	1,340	1,160
3	825	907	871	621	924	859	604	1,000	25	1,440	1,350	1,150
4	868	890	899	892	934	834	599	1,000	25	1,370	1,380	1,150
5	954	883	890	795	924	780	594	991	25	1,310	1,370	1,200
6	1,040	908	874	810	915	747	594	998	111	1,320	1,340	1,190
7	1,010	896	883	828	931	569	588	992	409	1,300	1,320	1,100
8	1,020	899	934	868	912	453	607	1,020	710	1,270	1,370	1,100
9	1,170	902	890	877	877	415	607	1,020	1,190	1,260	1,360	1,030
10	1,170	937	896	832	890	390	566	1,040	1,320	1,240	1,400	1,020
11	1,160	934	868	789	899	354	492	1,040	1,330	1,230	1,410	610
12	1,140	937	865	816	902	397	394	1,030	1,320	1,220	1,420	393
13	1,120	941	877	810	899	359	255	1,040	1,320	1,220	1,430	677
14	1,100	931	880	834	902	218	56	1,030	1,280	1,200	1,430	1,000
15	1,100	915	883	852	902	129	25	948	1,320	1,260	1,420	1,150
16	1,100	902	886	852	871	22	25	717	1,340	1,230	1,340	1,150
17	1,100	874	921	849	960	22	25	744	1,350	1,240	1,330	1,150
18	1,120	871	941	886	957	22	134	744	1,320	1,310	1,390	1,150
19	1,050	921	931	868	964	22	259	786	1,320	1,290	1,400	1,170
20	951	941	918	883	974	22	289	756	1,330	1,340	1,390	1,100
21	944	964	908	868	980	22	418	767	1,350	1,390	1,380	1,060
22	944	977	944	886	994	22	588	749	1,420	1,350	1,400	905
23	970	944	886	893	957	22	670	766	1,610	1,330	1,370	779
24	967	951	908	871	915	22	839	768	1,470	1,330	1,400	795
25	970	957	954	907	912	22	944	736	1,540	1,340	1,410	818
26	970	921	941	837	924	22	1,060	759	1,570	1,380	1,330	818
27	967	896	928	852	947	129	1,160	756	1,660	1,400	1,250	790
28	977	877	905	874	941	318	1,110	738	1,610	1,380	1,200	757
29	990	883	915	886	896	418	883	729	1,610	1,350	1,170	749
30	979	890	896	893	------	561	1,000	712	1,620	1,300	1,180	751
31	967	------	877	902	------	607	------	633	------	1,310	1,170	------
TOTAL	31,444	27,543	27,911	26,045	26,813	10,534	16,583	27,016	32,948	40,940	41,840	29,042
MEAN	1,014	918	900	840	935	340	553	871	1,098	1,321	1,350	968
MAX	1,170	977	954	902	994	915	1,160	1,040	1,660	1,550	1,430	1,200
MIN	819	871	859	621	871	22	25	633	25	1,200	1,170	393
AC-FT	62,370	54,639	55,360	51,660	53,180	20,890	32,890	53,590	65,350	81,200	82,990	57,600

CAL YR 1971 TOTAL 335,548 MEAN 919 MAX 1,800 MIN 14 AC-FT 665,500
WTR YR 1972 TOTAL 338,658 MEAN 925 MAX 1,660 MIN 22 AC-FT 671,700

BEAR RIVER BASIN
10-927. Bear River at Idaho—Utah State Line

LOCATION.--Lat 42°00'48", long 111°55'09", in NW¼NE¼ sec.29, T.16 S., R.39 E., Franklin County, Idaho, on left bank 1,050 feet downstream from inlet canal to Cub River pumps, 1.1 mile downstream from Weston Creek, 1.8 miles upstream from State line, and 3.5 miles southeast of Weston.

DRAINAGE AREA.--4,840 sq mi, approximately.

PERIOD OF RECORD.--October 1970 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,420 ft (from topographic map).

EXTREMES.--Current year: Maximum discharge, 3,100 cfs Apr. 13 (gage height, 6.95 ft); minimum daily, 863 cfs July 27.
Period of record: Maximum discharge, 4,190 cfs June 12 (gage height, 8.25 ft); minimum daily, 73 cfs Nov. 20.

REMARKS.--Records good. Natural flow of stream affected by storage reservoirs, power developments, diversions for irrigation, and return flow from irrigated areas. Records of chemical analysis for the water year 1972 are published in part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,810	1,780	1,660	1,700	1,630	2,030	1,840	2,430	1,590	2,070	1,190	1,420
2	1,710	1,550	1,620	1,610	1,750	1,800	1,750	2,380	1,750	2,080	1,330	1,430
3	1,780	1,980	1,810	1,550	1,300	2,100	1,920	3,000	1,530	2,010	1,230	1,400
4	1,740	1,820	1,600	1,380	1,350	2,380	1,990	2,700	1,660	1,810	1,410	1,320
5	1,730	1,590	1,690	1,500	1,500	2,100	1,750	2,630	1,040	1,840	980	1,650
6	1,790	1,540	1,730	2,100	1,650	2,180	1,990	2,370	1,470	1,810	1,100	1,480
7	1,660	1,830	1,630	2,050	1,900	2,220	2,250	2,590	1,530	1,790	1,010	1,550
8	1,930	1,670	1,450	1,900	1,800	2,240	2,080	2,680	1,680	1,580	1,060	1,660
9	1,650	1,630	1,700	1,860	1,600	1,860	2,120	3,040	1,880	1,470	1,090	1,460
10	1,770	1,760	1,700	1,600	1,650	2,000	2,120	3,050	1,960	1,460	1,240	1,480
11	1,720	1,740	1,650	1,480	1,650	2,220	2,170	3,000	1,760	1,360	1,320	1,550
12	1,940	1,770	1,680	1,800	1,650	2,020	2,350	2,470	1,730	1,290	945	1,540
13	1,520	1,700	1,700	1,700	1,650	2,250	2,530	2,480	1,810	1,290	983	1,530
14	1,730	1,890	1,700	1,700	1,650	2,250	2,410	2,670	2,200	965	1,040	1,580
15	1,700	1,940	1,700	1,700	1,650	2,560	2,210	2,680	2,010	1,140	986	1,500
16	1,830	1,690	1,700	1,700	1,690	2,600	2,310	2,630	2,020	1,210	1,210	1,460
17	1,750	1,660	1,700	1,700	1,820	2,400	2,090	2,600	2,070	1,200	1,210	1,560
18	1,950	1,590	1,700	1,700	1,740	2,140	2,110	2,480	1,950	1,130	1,260	1,460
19	1,930	1,650	1,700	1,700	1,700	2,370	2,150	2,600	1,910	1,270	980	1,560
20	1,740	1,620	1,700	1,700	1,880	2,410	1,950	2,110	1,990	1,220	1,040	1,550
21	1,830	1,700	1,700	1,900	1,620	2,140	2,110	2,570	1,960	1,300	1,130	1,570
22	1,650	1,830	1,700	1,900	1,970	2,150	2,040	2,390	1,900	1,230	1,100	1,590
23	1,660	1,710	1,700	2,050	1,890	2,150	2,120	2,610	1,880	1,150	1,140	1,500
24	1,820	1,650	1,700	1,700	1,560	2,200	2,160	2,410	1,970	1,460	1,370	1,350
25	1,770	1,690	1,700	1,700	1,880	1,990	2,110	2,390	2,420	1,230	1,160	1,550
26	1,810	1,740	1,700	1,700	1,670	2,060	2,080	2,130	2,200	1,070	1,290	1,360
27	1,730	1,750	1,700	1,700	1,740	1,930	2,100	2,080	2,330	863	1,330	1,600
28	1,740	1,680	1,810	1,990	1,920	1,890	2,020	2,160	2,270	1,150	1,380	1,560
29	1,690	1,820	1,790	1,780	1,840	1,890	2,280	2,100	2,250	1,350	1,360	1,730
30	1,700	1,660	1,580	1,570	------	1,900	2,960	2,020	2,290	1,060	1,350	1,370
31	1,650	------	1,700	1,790	------	1,750	------	1,940	------	1,420	1,370	------
TOTAL	54,430	51,630	52,300	53,910	49,300	66,180	64,070	77,390	57,010	43,278	36,594	45,320
MEAN	1,756	1,721	1,687	1,739	1,700	2,135	2,136	2,496	1,900	1,396	1,180	1,511
MAX	1,950	1,980	1,810	2,100	1,970	2,600	2,960	3,050	2,420	2,080	1,410	1,730
MIN	1,520	1,540	1,450	1,380	1,300	1,750	1,750	1,940	1,040	863	945	1,320
AC-FT	108,000	102,400	103,700	106,900	97,790	131,300	127,100	153,500	113,100	85,840	72,580	89,890

CAL YR 1971 TOTAL 733,734 MEAN 2,010 MAX 4,170 MIN 984 AC-FT 1,455,000
WTR YR 1972 TOTAL 651,412 MEAN 1,780 MAX 3,050 MIN 863 AC-FT 1,292,000

BEAR RIVER BASIN

10-930. Cub River near Preston, Idaho

LOCATION.--Lat 42°08'28", long 111°41'19", in SW¼ sec.5, T.15 S., R.41 E., Franklin County, Cache National Forest, 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.--19.4 sq mi.

PERIOD OF RECORD.--March 1940 to September 1952, October 1955 to current year.

GAGE.--Water-stage recorder. Datum of gage is 5,285.1 ft above mean sea level, unadjusted.

AVERAGE DISCHARGE.--29 years, 84.3 cfs (61,080 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 747 cfs June 3 (gage height, 2.88 ft); minimum, 15 cfs Jan. 10. Period of record: Maximum discharge, 803 cfs June 11, 1971 (gage height, 3.13 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 diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	32	26	26	23	26	38	98	660	204	71	44
2	42	32	26	26	23	28	42	96	691	195	69	43
3	41	32	27	26	22	45	42	101	715	183	68	43
4	40	32	26	26	22	34	46	121	705	172	66	42
5	40	32	27	25	22	33	50	156	674	165	65	48
6	40	31	28	25	22	35	76	190	659	159	63	43
7	40	31	26	25	22	36	85	224	693	153	62	42
8	40	30	26	25	22	36	82	256	662	145	61	41
9	40	29	26	25	22	40	84	262	621	139	60	40
10	40	29	26	25	22	51	85	246	570	134	59	40
11	40	29	26	25	22	57	103	228	536	127	58	39
12	39	30	26	25	22	56	122	225	509	123	57	39
13	38	31	26	24	22	59	115	239	478	120	57	38
14	38	31	26	24	22	63	103	280	430	116	56	38
15	38	30	26	23	22	59	95	335	400	113	55	37
16	38	29	26	23	22	60	92	396	393	109	53	36
17	36	29	25	23	22	68	97	452	396	106	52	36
18	37	28	25	24	22	75	94	484	392	102	52	36
19	35	28	25	25	22	78	87	473	365	100	51	36
20	34	28	25	25	23	68	80	437	329	98	50	35
21	34	28	25	26	23	60	75	421	300	95	49	34
22	34	28	25	26	24	62	71	389	293	92	49	34
23	34	28	26	26	24	71	69	331	283	89	49	34
24	34	27	26	25	24	64	72	300	274	86	48	33
25	34	27	27	25	24	59	79	321	274	84	48	33
26	33	28	31	24	24	54	77	388	266	82	47	32
27	35	28	29	24	23	49	77	417	243	79	46	33
28	34	27	28	24	25	45	83	453	229	78	46	32
29	33	27	28	24	26	42	95	484	218	76	45	31
30	33	26	28	24	------	40	100	535	211	74	45	31
31	32	------	27	23	------	38	------	603	------	73	44	------
TOTAL	1,150	877	820	766	660	1,591	2,416	9,941	13,469	3,671	1,701	1,123
MEAN	37.1	29.2	26.5	24.7	22.8	51.3	80.5	321	449	118	54.9	37.4
MAX	44	32	31	26	26	78	122	603	715	204	71	48
MIN	32	26	25	23	22	26	38	96	211	73	44	31
AC-FT	2,280	1,740	1,630	1,520	1,310	3,160	4,790	19,720	26,720	7,280	3,370	2,230

CAL YR 1971 TOTAL 47,556 MEAN 130 MAX 782 MIN 24 AC-FT 94,330
WTR YR 1972 TOTAL 38,185 MEAN 104 MAX 715 MIN 22 AC-FT 75,740

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., Cache County, on right bank at Logan plant of Utah Power & Light Co., 125 ft upstream from tailrace, 0.5 mile upstream from State dam, and 2.5 miles east of Logan.

DRAINAGE AREA.--218 sq mi.

PERIOD OF RECORD.--June 1896 to current year. 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, nonrecording gage at various sites within 0.5 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, 1938, at datum about 2.3 ft lower than present datum.

AVERAGE DISCHARGE.--59 years (1913-72), 113 cfs (78,970 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, 76 years (1896-72), 275 cfs (199,200 acre-ft per year).

EXTREMES (River only).--Current year: Maximum discharge, 1,320 cfs June 3 (gage height, 5.80 ft); minimum daily, 127 cfs Feb. 3, 11, 26.
Period of record: 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.
(Combined flow, Logan River above State dam and Logan, Hyde Park & Smithfield Canal).--Current year: Maximum discharge, 1,400 cfs June 3; minimum daily, 132 cfs Feb. 11, 26.
Period of record: Maximum observed discharge, 2,480 cfs May 24, 1907; minimum daily, 50 cfs Jan. 21, 1935.

REMARKS.--Records good. Water diverted from river and springs above station for power, irrigation and municipal supply. Flow regulated by Logan City powerplant above station. For records of combined flow of Logan River and Logan, Hyde Park & Smithfield Canal, see following page. Combined flow record excludes that in Logan City culinary pipe lines. 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. Utah Power and Light Co. stopped diverting water from river November 1970 at which time the tailrace station was discontinued.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	244	202	186	152	143	137	241	454	1,160	624	281	199
2	244	202	163	154	129	141	273	486	1,220	606	291	202
3	238	199	174	149	127	215	273	520	1,260	580	281	204
4	235	199	165	149	133	204	285	597	1,280	554	275	202
5	235	202	174	149	139	184	322	683	1,220	541	269	230
6	230	194	179	149	137	202	528	778	1,200	520	262	250
7	230	194	158	149	139	202	478	826	1,220	507	259	235
8	227	196	154	143	137	199	423	870	1,200	494	256	221
9	227	194	158	141	135	202	415	846	1,180	473	250	224
10	227	189	149	145	131	218	415	735	1,160	457	244	230
11	224	184	149	145	127	238	465	697	1,120	448	238	232
12	224	186	145	147	133	256	507	697	1,090	431	232	230
13	221	194	139	143	133	266	444	716	1,070	419	230	227
14	221	191	135	135	135	288	407	773	1,040	415	232	221
15	227	186	135	135	133	304	391	855	998	411	230	204
16	232	184	145	135	133	291	403	930	975	399	224	194
17	232	184	145	133	131	322	431	1,020	950	383	221	194
18	230	174	145	143	133	353	415	1,060	945	372	215	189
19	221	177	145	154	129	357	395	1,040	920	364	213	196
20	221	179	145	156	129	308	376	993	865	357	213	194
21	218	179	145	160	131	308	364	955	821	350	207	189
22	215	177	155	167	135	325	372	925	807	339	204	184
23	213	174	155	167	133	361	372	836	802	332	204	186
24	213	174	155	156	133	322	415	826	812	322	202	184
25	215	172	155	154	133	318	448	855	850	318	202	184
26	213	172	155	156	127	318	423	905	783	308	202	184
27	221	179	155	152	131	281	448	950	735	298	199	186
28	215	174	155	149	133	266	465	984	692	294	196	189
29	207	174	158	143	141	253	546	1,020	669	291	204	184
30	204	177	158	133	------	241	550	1,060	642	285	202	184
31	207	------	149	135	------	232	------	1,100	------	281	199	------
TOTAL	6,931	5,562	4,783	4,578	3,863	8,112	12,290	26,032	29,686	12,773	7,137	6,132
MEAN	224	185	154	148	133	262	410	840	990	412	230	204
MAX	244	202	186	167	143	361	550	1,100	1,280	624	291	250
MIN	204	172	135	133	127	137	241	486	642	281	196	184
AC-FT	13,750	11,030	9,490	9,080	7,660	16,090	24,380	51,630	58,880	25,340	14,160	12,160

CAL YR 1971 TOTAL 146,005 MEAN 400 MAX 1,590 MIN 90 AC-FT 289,600
WTR YR 1972 TOTAL 127,879 MEAN 349 MAX 1,280 MIN 127 AC-FT 253,600

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

COMBINED DISCHARGE, IN CUBIC FEET PER SECOND, OF LOGAN RIVER ABOVE STATE DAM AND LOGAN, HYDE PARK & SMITHFIELD CANAL AT HEAD, NEAR LOGAN, UTAH, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	250	203	194	158	148	143	243	504	1,260	694	367	265
2	250	203	170	160	136	147	275	496	1,320	680	359	264
3	244	200	181	154	135	221	275	530	1,330	654	353	251
4	240	200	172	154	142	210	287	619	1,350	628	350	249
5	240	203	181	154	149	190	324	719	1,290	615	344	271
6	235	195	186	154	144	208	530	813	1,260	598	337	273
7	235	195	165	154	145	208	480	860	1,280	584	334	258
8	232	197	161	148	143	204	425	903	1,280	571	331	244
9	232	195	165	146	140	207	417	885	1,260	549	324	247
10	232	193	155	150	136	223	416	780	1,240	533	320	250
11	228	193	155	150	132	243	466	741	1,200	524	319	244
12	228	195	151	152	138	261	508	742	1,160	508	313	242
13	225	202	145	147	138	271	445	775	1,140	498	310	239
14	225	199	141	140	140	293	408	856	1,100	494	312	236
15	230	194	141	140	138	309	392	936	1,070	490	310	235
16	234	192	151	140	138	296	404	1,010	1,060	478	304	236
17	234	192	151	138	136	327	432	1,100	1,040	466	301	236
18	232	182	151	148	138	358	416	1,130	1,030	458	294	231
19	222	184	151	159	134	361	396	1,110	1,010	451	292	238
20	222	187	151	161	134	312	377	1,060	951	445	292	236
21	219	187	151	165	136	312	365	1,020	906	437	286	231
22	216	185	161	172	140	329	373	992	892	426	283	225
23	214	182	161	172	138	364	373	902	886	418	283	228
24	214	182	161	161	138	324	416	892	878	409	281	225
25	216	180	161	159	138	320	449	924	900	407	281	225
26	214	180	161	161	132	320	424	989	832	399	276	225
27	222	187	161	157	136	283	449	1,040	784	391	273	227
28	216	182	160	154	138	268	471	1,080	750	386	269	230
29	208	182	163	148	146	255	557	1,120	732	383	270	225
30	205	185	164	138	------	243	560	1,160	705	376	268	223
31	208	------	154	140	------	234	------	1,200	------	372	265	------
TOTAL	7,022	5,736	4,976	4,734	4,026	8,244	12,353	27,888	31,896	15,322	9,501	7,209
MEAN	227	191	161	153	139	266	412	900	1,063	494	306	240
MAX	250	203	194	172	149	364	560	1,200	1,350	694	367	273
MIN	205	180	141	138	132	143	243	496	705	372	265	223
AC-FT	13,930	11,380	9,870	9,390	7,990	16,350	24,500	55,320	63,270	30,390	18,850	14,300

CAL YR 1971 TOTAL 153,661 MEAN 421 MAX 1,610 MIN 96 AC-FT 304,800
WTR YR 1972 TOTAL 138,907 MEAN 380 MAX 1,350 MIN 132 AC-FT 275,500

BEAR RIVER BASIN

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

LOCATION.--Lat 41°49'51", long 112°03'24", in SE¼ sec.27, T.13 N., R.2 W., Box Elder County, on right bank 3,600 ft downstream from Cutler Dam and 4 miles north of Collinston.

PERIOD OF RECORD.--June 1912 to current year. 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, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--60 years, 51.1 cfs (37,020 acre-ft per year).

EXTREMES.--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 NW¼SW¼ 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 58,000 acres below station in eastern Box Elder County.

COOPERATION.--Gage-height record and 4 discharge measurements furnished by Utah Power & Light Co.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33							0	149	159	144	123
2	24							0	150	159	146	120
3	24							71	150	160	150	121
4	24							79	150	161	153	121
5	23							93	150	159	151	113
6	23							99	150	155	152	92
7	23							99	149	154	153	86
8	23							111	150	153	153	78
9	23							124	149	155	152	74
10	23							123	149	151	152	71
11	24							124	149	149	153	71
12	23							126	152	150	152	69
13	21							135	157	153	152	70
14	21							143	156	153	148	70
15	16							144	156	153	148	70
16	10							148	158	153	148	70
17	10							153	159	153	148	70
18 e	9.9							153	160	151	150	71
19	9.4							153	160	150	145	68
20	9.0							152	161	150	143	66
21	8.6							151	157	151	142	62
22	8.4							151	149	152	143	58
23	8.2							151	159	149	142	58
24	8.2							151	158	145	142	58
25	8.2							150	149	138	142	58
26	8.2							150	153	146	142	56
27	4.0							148	151	148	140	52
28	0							149	150	146	138	53
29	0							150	155	145	138	54
30	0				------			150	161	144	137	54
31	0	------			------		------	149	------	143	130	------
TOTAL	450.1	0	0	0	0	0	0	3,880	4,606	4,688	4,529	2,257
MEAN	14.5	0	0	0	0	0	0	125	154	151	146	75.2
MAX	33	0	0	0	0	0	0	153	161	161	153	123
MIN	0	0	0	0	0	0	0	0	149	138	130	52
AC-FT	893	0	0	0	0	0	0	7,700	9,140	9,300	8,980	4,480

CAL YR 1971 TOTAL 17,209.60 MEAN 47.1 MAX 174 MIN 0 AC-FT 34,140
WTR YR 1972 TOTAL 20,410.10 MEAN 55.8 MAX 161 MIN 0 AC-FT 40,480

BEAR RIVER BASIN

10-1175. West Side Canal near Collinston, Utah

LOCATION.--Lat 41°49'55", long 112°03'36", in SW¼ sec.27, T.13 N., R.2 W., Box Elder County, on left bank 4,200 ft downstream from Cutler Dam and 4 miles north of Collinston.

PERIOD OF RECORD.--June 1912 to current year. Monthly discharge only for some periods, published in WSP 1314.

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

AVERAGE DISCHARGE.--60 years, 241 cfs (174,600 acre-ft per year).

EXTREMES.--Period of record: Maximum daily discharge, 763 cfs July 11, 1967; no flow for periods in every year except 1914.

REMARKS.--Records good. Canal diverts from west side of Bear River in NE¼SE¼ sec.27, 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 6 discharge measurements furnished by Utah Power & Light Co.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	258	104	68	55	50	48	0	9.6	711	743	689	657
2	208	104	63	55	50	48	0	16	719	745	703	641
3	186	104	60	55	50	48	0	278	729	747	717	626
4	186	104	60	55	50	48	0	338	703	749	725	616
5	182	105	60	55	50	48	0	362	721	747	723	569
6	182	103	59	55	50	48	0	405	709	741	723	410
7	184	102	58	55	50	48	0	416	695	733	723	406
8	180	101	55	55	50	48	0	442	693	727	721	394
9	178	95	55	55	50	48	0	510	687	731	729	386
10	177	88	55	55	50	48	0	561	687	721	745	381
11	177	88	55	55	50	48	0	584	687	715	745	376
12	177	88	55	55	50	48	0	611	691	723	741	390
13	177	96	55	55	50	48	0	637	699	729	741	415
14	177	85	55	55	50	48	0	651	709	729	731	416
15	159	85	55	55	49	48	0	663	729	735	721	423
16	148	78	55	55	49	51	0	677	739	743	727	442
17	147	68	55	55	49	45	0	685	739	743	727	454
18	133	68	55	55	48	32	0	689	741	729	729	472
19	122	68	55	55	48	32	0	697	739	727	719	440
20	122	68	55	55	48	32	0	699	743	717	705	411
21	121	67	55	54	48	32	0	701	743	701	703	395
22	114	65	55	53	48	31	0	703	735	683	697	379
23	110	65	55	53	47	23	0	699	711	685	691	378
24	112	68	55	52	47	12	0	689	695	683	693	374
25	108	67	55	53	47	12	0	689	584	661	691	371
26	104	68	55	53	47	12	0	691	630	673	695	346
27	104	68	55	53	48	5.7	0	699	665	683	701	326
28	104	68	55	53	48	0	0	703	697	683	691	304
29	103	68	55	50	48	0	9.2	703	707	683	677	288
30	103	68	55	50	------	0	9.3	707	725	685	671	288
31	103	------	55	50	------	0	------	711	------	683	667	------
TOTAL	4,646	2,464	1,748	1,674	1,419	1,039.7	17.5	17,625.6	21,162	22,177	22,061	12,774
MEAN	150	82.1	56.4	54.0	48.9	33.5	.58	569	705	715	712	426
MAX	258	105	68	55	50	51	9.3	711	743	749	745	557
MIN	103	65	55	50	47	0	0	9.6	584	661	667	288
AC-FT	9,220	4,890	3,470	3,320	2,810	2,060	35	34,960	41,970	43,990	43,760	25,340

CAL YR 1971 TOTAL 93,283.00 MEAN 256 MAX 739 MIN 0 AC-FT 185,000
WTR YR 1972 TOTAL 108,807.80 MEAN 297 MAX 749 MIN 0 AC-FT 215,800

BEAR RIVER BASIN

10-1180. Bear River near Collinston, Utah

LOCATION.--Lat 41°50'03", long 112°03'16", in NW¼SE¼ sec.27, T.13 N., R.2 W., Box Elder County, on right bank 800 ft downstream from Cutler plant of Utah Power & Light Co., 2,000 ft downstream from Cutler Dam, and 5.5 miles north of Collinston.

DRAINAGE AREA.--6,000 sq mi, approximately.

PERIOD OF RECORD.--July 1889 to current year. Published as "at Collinston" prior to 1900. Monthly discharge only for some periods, published in WSP 1314.

GAGE.--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, nonrecording gage, and Nov. 8, 1913 to Sept. 10, 1938, water-stage recorder, at site 0.8 mile downstream at different datums.

EXTREMES.--Current year: Maximum discharge, 5,130 cfs Apr. 21 (gage height, 5.51 ft); minimum daily, 21 cfs Aug. 14.
Period of record: 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 2400 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.--Seven discharge measurements furnished by Utah Power & Light Co.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,310	2,300	2,440	3,150	1,800	2,570	2,990	3,820	3,240	2,640	228	1,930
2	2,820	2,480	2,390	3,110	1,420	2,830	2,980	3,820	3,220	2,590	835	2,040
3	2,820	2,280	2,440	2,110	1,130	2,880	3,070	3,820	3,190	2,280	1,530	1,150
4	2,830	2,300	2,490	1,490	1,820	3,450	3,040	3,830	3,210	2,020	860	22
5	2,830	2,130	2,520	1,510	2,330	3,420	3,080	3,840	3,210	2,390	1,390	480
6	2,490	2,540	2,550	1,730	1,740	3,400	3,160	3,840	3,170	2,340	25	2,610
7	1,820	2,780	2,570	1,690	2,470	3,540	3,360	4,190	2,970	1,840	27	1,930
8	2,280	2,840	2,040	2,320	2,910	3,430	3,570	4,500	2,950	2,240	662	2,030
9	2,210	2,120	1,400	2,000	2,910	3,310	3,670	4,710	2,960	714	429	2,010
10	2,290	2,530	1,690	2,320	3,440	3,320	3,730	4,720	3,000	1,600	1,170	1,670
11	2,270	2,670	1,710	2,480	3,020	3,270	3,790	4,750	3,140	1,620	1,200	2,420
12	2,410	2,040	1,800	3,470	2,740	3,250	3,800	4,770	3,170	1,590	1,730	2,100
13	2,050	2,810	1,980	2,490	2,720	3,330	3,820	4,660	3,060	968	23	1,260
14	2,200	2,840	1,960	2,880	2,890	3,380	3,850	4,300	3,060	780	21	1,960
15	2,070	2,780	2,230	2,890	2,790	3,430	4,500	4,120	2,870	1,070	24	1,700
16	2,600	1,930	2,200	2,730	2,560	3,510	4,710	3,960	2,840	52	362	1,560
17	2,530	2,810	2,420	2,420	2,650	3,660	4,840	3,960	2,740	507	1,080	1,660
18	2,670	2,810	2,350	2,180	2,680	3,740	4,940	3,950	2,670	937	791	1,270
19	2,640	2,790	2,220	2,270	2,690	3,790	4,690	4,070	2,670	1,080	1,190	1,490
20	2,830	2,840	2,270	3,560	2,670	3,810	4,550	4,270	2,580	739	346	1,710
21	2,750	2,840	2,280	3,540	2,690	3,810	4,850	4,360	2,310	423	585	1,730
22	2,810	2,650	2,290	3,700	2,580	3,800	4,800	3,950	2,370	747	878	1,990
23	2,650	2,400	2,210	3,830	2,710	3,620	4,310	3,590	2,500	1,190	613	1,880
24	1,710	1,620	2,950	3,460	2,730	3,680	4,130	3,620	2,440	1,170	762	1,660
25	2,390	1,940	3,520	3,390	2,680	3,400	3,910	3,580	2,790	1,280	857	1,960
26	2,830	2,310	3,880	3,360	2,600	3,670	3,810	3,400	2,770	562	830	1,690
27	2,520	2,220	3,900	2,890	2,470	3,450	3,810	3,390	2,910	1,780	724	2,040
28	2,430	2,070	3,840	2,960	2,600	3,340	3,820	3,220	2,900	1,750	880	1,950
29	2,830	2,750	3,640	2,580	2,570	3,230	3,820	3,100	2,790	1,450	1,120	1,760
30	2,430	2,800	3,260	1,720	------	3,100	3,820	3,200	2,750	22	1,080	1,990
31	2,330	------	3,160	1,650	------	3,060	------	3,170	------	207	1,240	------
TOTAL	76,650	74,220	78,600	81,880	73,010	105,480	117,220	122,480	86,450	40,578	23,492	51,652
MEAN	2,473	2,474	2,535	2,641	2,518	3,403	3,907	3,951	2,882	1,309	758	1,722
MAX	2,830	2,840	3,900	3,830	3,440	3,810	4,940	4,770	3,240	2,640	1,730	2,610
MIN	1,710	1,620	1,400	1,490	1,130	2,570	2,980	3,100	2,310	22	21	22
AC-FT	152,000	147,200	155,900	162,400	144,800	209,200	232,500	242,900	171,500	80,490	46,600	102,500

CAL YR 1971 TOTAL 1,082,651 MEAN 2,966 MAX 7,150 MIN 407 AC-FT 2,147,000
WTR YR 1972 TOTAL 931,712 MEAN 2,546 MAX 4,940 MIN 21 AC-FT 1,848,000

BEAR RIVER BASIN

10-1260. Bear River near Corinne, Utah

LOCATION.--Lat 41°34'35", long 112°06'00", in SE¼NE¼ sec.30, T.10 N., R.2 W., Box Elder County, on right bank 1.2 miles downstream from Salt Creek, 2.0 miles northeast of Corinne, and 2.8 miles downstream from Malad River.

DRAINAGE AREA.--6,800 sq mi, approximately.

PERIOD OF RECORD.--October 1949 to September 1957, October 1963 to current year.

GAGE.--Water-stage recorder. Datum of gage is 4,204.6 ft, unadjusted. Auxiliary nonrecording gage 7,800 ft downstream July 27, 1950 to Nov. 21, 1955.

AVERAGE DISCHARGE.--17 years, 1,737 cfs (1,258,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 5,250 cfs Apr. 18, 19 (gage height, 12.56 ft); minimum daily, 102 cfs Aug. 16.
Period of record: Maximum discharge, 7,370 cfs June 17, 1971 (gage height, 15.12 ft); minimum daily, 72 cfs Aug. 20, 12, 26, Sept. 8, 1964, July 5, 1970.

REMARKS.--Records good except those for winter months, which are fair. Natural flow of stream affected by storage reservoirs, power developments, diversions for irrigation, and return flow from irrigated areas. Records are essentially equivalent to flow that reaches the Bear River Bird Refuge area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,430	2,840	3,100	3,600	2,100	2,800	3,380	4,040	3,320	2,860	236	1,530
2	2,940	2,840	2,900	3,500	2,000	3,000	3,340	4,040	3,340	2,780	340	2,050
3	3,190	2,820	2,800	3,400	1,750	3,180	3,330	4,020	3,360	2,700	845	2,200
4	3,220	2,680	2,800	2,500	2,000	3,260	3,350	4,050	3,360	2,420	1,630	1,710
5	3,220	2,610	2,900	2,000	2,400	3,660	3,360	4,050	3,360	2,240	1,200	540
6	3,070	2,720	2,900	2,050	2,650	3,720	3,400	4,050	3,360	2,420	1,460	871
7	2,690	3,080	2,900	2,300	2,850	3,720	3,480	4,060	3,300	2,500	650	2,290
8	2,460	3,200	2,900	2,750	3,320	3,790	3,630	4,380	3,170	2,110	135	2,300
9	2,620	2,970	2,400	2,950	3,530	3,720	3,800	4,660	3,140	2,140	540	2,380
10	2,600	2,740	2,000	2,600	3,460	3,650	3,910	4,840	3,140	1,100	506	2,250
11	2,620	3,000	2,100	3,100	3,780	3,630	4,010	4,860	3,170	1,670	1,230	2,130
12	2,700	2,940	2,200	3,500	3,530	3,560	4,080	4,850	3,270	1,810	1,450	2,660
13	2,590	2,750	2,250	3,900	3,160	3,550	4,130	4,840	3,290	1,780	1,860	2,190
14	2,520	3,190	2,300	3,200	3,130	3,600	4,130	4,700	3,230	1,280	650	1,720
15	2,560	3,270	2,400	3,200	3,180	3,650	4,200	4,380	3,180	1,030	161	1,890
16	2,680	3,010	2,500	3,200	3,040	3,710	4,750	4,080	3,020	1,160	102	1,820
17	2,960	2,750	2,650	3,000	2,880	3,780	4,990	4,010	2,970	375	212	1,730
18	2,930	3,210	2,800	2,700	2,910	3,910	5,140	4,000	2,840	570	1,070	1,800
19	3,110	3,200	2,700	2,700	2,920	3,990	5,180	4,000	2,780	1,020	1,030	1,690
20	3,170	3,200	2,700	3,500	2,940	4,030	4,970	4,120	2,800	1,210	1,260	1,750
21	3,240	3,200	2,700	4,000	2,940	4,050	4,850	4,330	2,680	1,030	682	1,910
22	3,210	3,200	2,700	4,100	2,950	4,060	5,100	4,320	2,500	690	642	2,000
23	3,210	3,100	2,700	4,200	2,880	4,060	5,060	4,040	2,650	914	1,010	2,130
24	2,740	2,620	3,100	4,380	2,960	3,940	4,610	3,740	2,650	1,360	776	2,160
25	2,380	2,200	3,500	3,970	3,030	3,930	4,400	3,720	2,760	1,500	884	2,020
26	2,920	2,400	4,200	3,790	2,980	3,760	4,170	3,660	2,920	1,540	1,030	2,090
27	3,080	2,600	4,250	3,720	2,890	3,890	4,060	3,560	2,970	957	1,070	2,140
28	2,940	2,740	4,300	3,630	2,760	3,780	4,040	3,500	3,080	1,790	961	2,270
29	3,050	2,800	4,300	3,460	2,860	3,670	4,040	3,360	3,060	1,980	1,030	2,190
30	3,080	3,200	4,100	2,840	-------	3,550	4,030	3,290	2,950	1,800	1,350	2,060
31	2,910	-------	3,700	2,100	-------	3,440	------	3,300	------	510	1,280	------
TOTAL	89,040	87,080	91,750	99,840	83,780	114,040	124,920	126,850	91,620	49,246	27,282	58,471
MEAN	2,872	2,903	2,960	3,221	2,889	3,679	4,164	4,092	3,054	1,589	880	1,949
MAX	3,240	3,270	4,300	4,380	3,780	4,060	5,180	4,860	3,360	2,860	1,860	2,660
MIN	2,380	2,200	2,000	2,000	1,750	2,800	3,330	3,290	2,500	375	102	540
AC-FT	176,600	172,700	182,000	198,000	166,200	226,200	247,800	251,600	181,700	97,680	54,110	116,000

CAL YR 1971 TOTAL 1,179,531 MEAN 3,232 MAX 7,340 MIN 678 AC-FT 2,340,000
WTR YR 1972 TOTAL 1,043,919 MEAN 2,852 MAX 5,180 MIN 102 AC-FT 2,071,000