

MINUTES OF THE
BEAR RIVER COMMISSION
REGULAR MEETING

NOVEMBER 19, 1973

BEAR RIVER COMMISSION

Minutes of Regular Meeting held in Salt Lake City, Utah

November 19, 1973

The Regular Meeting of the Bear River Commission was held November 19, 1973 in Room 303, State Capitol Building, Salt Lake City, Utah. The meeting commenced at 10:10 a.m., with Chairman E.O. Larson presiding.

THOSE PRESENT:

UNITED STATES

E.O. Larson, Chairman and U.S. Representative, Salt Lake City, Utah

COMMISSIONERS

IDAHO

Ferris M. Kunz, Montpelier (Vice-Chairman)
William G. Jenkins, Malad
J.C. Hedin, Preston

UTAH

Daniel F. Lawrence, Salt Lake City (Secretary-Treasurer)
Paul Holmgren, Bear River City
Simeon Weston, Randolph (sitting for Gordon Peart)

WYOMING

S. Reed Dayton, Cokeville
J.W. Myers, Evanston
John A. Teichert, Cokeville

ASSISTANT SECRETARY

Wallace N. Jibson, Logan, Utah

LEGAL ADVISOR

(Ed J. Skeen excused)

POWER COMPANY

Robert B. Porter, Salt Lake City, Utah

ALTERNATES AND OTHERS IN ATTENDANCE

Keith Higginson, Director, Department of Water Administration,
Boise, Idaho

C. Stephen Allred, Director, Water Resource Board, Boise, Idaho

Alan C. Robertson, Water Resource Board staff, Boise, Idaho

Nathan W. Higer, Attorney General's office, Boise, Idaho

Calvin Funk, Richmond, Utah

Norman Stauffer, Division of Water Resources, Salt Lake City, Utah

Floyd A. Bishop, State Engineer, Cheyenne, Wyoming

Marvin Bollschweiler, Hydrographer, Evanston, Wyoming

Cecil Quayle, Bear Lake Water Study, Dingle, Idaho

Cliff Skinner, Bear Lake Water Study, Dingle, Idaho

Donald S. Rex, Bear Lake Water Study, Georgetown, Idaho

Dean E. Bischoff, U.S. Bureau of Reclamation, Smithfield, Utah

Ted Arnow, U.S. Geological Survey, Salt Lake City, Utah

G. Haight, Utah Power & Light Company, Salt Lake City, Utah

BEAR RIVER COMMISSION

Minutes of Bear River Commission meeting held November 19, 1973 in Room 303, State Capitol Building, Salt Lake City, Utah. The meeting commenced at 10:10 a.m., with Chairman E.O. Larson presiding.

CALL TO ORDER

CHAIRMAN LARSON: We'll go ahead with our Regular meeting.

I believe we have everybody here from the states. There are some new faces to me here; so we'll start with Idaho. Will you introduce your people?

MR. KUNZ: Mr. Larson, I think you know all of us. The Commission is the same - Joe Hedin, Griff Jenkins, myself; our Advisor, the Director of the Department of Water Administration, Mr. Keith Higginson of Boise; and these three gentlemen of Bear Lake people, Don Rex, Cliff Skinner, and Cecil Quayle. I believe that's all.

CHAIRMAN LARSON: Utah -

MR. LAWRENCE: We have my two alternate Commissioners sitting with us this morning. Gordon Peart is ill, and won't be here; and Sim Weston is sitting for Utah for the Upper Basin. We haven't heard from Paul Holmgren -

_____ : Here's Paul, now.

MR. LAWRENCE: Oh, Paul's here then.

CHAIRMAN LARSON: Wyoming -

MR. BISHOP: Mr. Chairman. Wyoming - Commissioner Reed Dayton, whom you all know. Wes Myers, I think, will be here shortly. We also have Marv Bollschweiler from Evanston, our Water Commissioner in that area; and John Teichert, the Water Division Superintendent from Cokeville. I think that's the Wyoming delegation right now.

CHAIRMAN LARSON: The rest of you might introduce yourselves, those who haven't been introduced. Bob Porter, you have got somebody with you?

MR. PORTER: Jay Haight, from Utah Power & Light.

CHAIRMAN LARSON: And we have Ted Arnow from the U.S. Geological Survey, and Dean Bischoff from the Bureau of Reclamation. I see him so much that I about overlooked him.

READING OF MINUTES

CHAIRMAN LARSON: The next item is the reading of the Minutes of our April 20th meeting; but following our regular practice, if it's alright with the Commission, Wally can give a brief of the Minutes.

MR. JIBSON: I've brought three or four copies of the Minutes down; if you need to look at them, you may refer to these copies. This was the Annual Meeting held April 23, 1973.

Annual Meeting - April 23, 1973

Review of Minutes

The Annual Meeting was held in Salt Lake City with all commissioners and officers present except Keith Higginson who again was detained until after the meeting adjourned. Previous Minutes were reviewed by the Assistant Secretary and approved.

The Chairman had no report and Bert Page gave a financial report for the Secretary-Treasurer. His report showed a cash balance of \$34,800 of which about \$21,700 will be obligated as of June 30 to the USGS for six-month operation.

The Assistant Secretary's report reviewed streamflow prospects for 1973, presented a budget breakdown for the 1974 fiscal year, and presented a followup of the detailed review of the streamgaging program presented in the previous meeting. He recommended discontinuance as of September 30, 1973 of two stations on the lower Malad River system and two on Little Bear River. Considerable discussion followed this recommendation as Mr. Holmgren questioned the advisability of discontinuing the Malad River stations. A motion was passed later in the meeting to continue operation past September 30 until the November meeting when further recommendations would be made after detailed discussion with the Utah State Engineer. Applications for appropriation included thousands of wells for several thousand second-feet of water in Cache and Box Elder Counties for geothermal development. Mr. Porter explained the Power Company's plans for this development. The State Engineer has jurisdiction over geothermal development in the State of Utah.

Sim Weston introduced Joseph Francis who explained some preliminary thinking on the enlargement of Woodruff Narrows Reservoir, part of the storage to come through exchange of direct-flow rights to storage. A total enlargement of 25,000 acre-feet is conceived of which about half would be through this exchange, the other half by negotiation on Bear Lake water and through storage of presently unused Wyoming allocation in the Cokeville area. Mr. Skeen discussed legal aspects, giving his opinion that the intent of additional upstream storage provisions of the Compact was to provide storage

that is not subordinate to Bear Lake rights. Change applications could be granted only if effect thereof does not affect existing rights unless compensation is provided. Mr. Lawrence discussed a preliminary engineering look and costs of enlargement. Mr. Jibson discussed his participation in a hydrologic study of the transfer proposal. Mr. Bishop questioned whether the enlargement would be in violation of the Compact.

Chairman Larson called for election of officers and J.W. Myers was elected Vice-Chairman to serve two years. Other officers acclaimed as now constituted.

Mr. Lawrence recommended that the USGS install new gaging stations on the West Fork and East Fork of Bear River in Summit County. Mr. Jibson agreed to the proposal and felt the cost could be absorbed in our present budget. Motion carried.

Mr. Bishop again opened up the Woodruff Narrows discussion, and it was decided that the States would each make further comment at a future meeting on the question of violation of the Compact.

Meeting adjourned at 12:10 p.m.

MR. JIBSON: That's a brief summary, gentlemen.

APPROVAL OF MINUTES

CHAIRMAN LARSON: I assume all the members of the Commission have read the Minutes. Are you ready to make a Motion for their approval? Any question?

MR. LAWRENCE: I move the approval of the Minutes of the April meeting.

MR. KUNZ: I'll second.

CHAIRMAN LARSON: You've heard the Motion; it has been seconded. Those in favor, say 'aye'. Opposed?

MOTION CARRIED.

REPORT OF THE CHAIRMAN

CHAIRMAN LARSON: The next is the report of the Chairman. I received a letter August 6, 1973 from Mr. Haddock of the Regional Commission - Bear Lake Regional Commission - who invited me to attend the meeting, and if I couldn't attend to send a representative. As I knew that Mr. Jibson would be attending, I asked him to represent me, which he did. It might be well to have a summary - something of a statement

on this meeting; and Mr. Kunz who also attended will give a report on the meeting under 'New Business' at the end of this meeting.

REPORT OF THE SECRETARY-TREASURER

CHAIRMAN LARSON: The next item is the report of the Secretary-Treasurer.

MR. LAWRENCE: Mr. Chairman, as the Minutes showed, there was a balance in the treasury of \$34,800 on March 31. Since that time the Commission has paid \$200 to the Auditor; \$50 to Connie for the Minutes; \$13.50 to Herald Printing for some printing that Wally had done; \$589.00 for the Annual Report to Rose Printing; and, as Wally said, \$21,713 to U.S. Geological Survey for half of the cost - that is, the Commission's share of the cost of operation; making a total expenditure of \$22,565.50. During the period ending June 30, we had interest income of \$137.58; leaving us a balance on June 30 of \$12,372.66.

Now, since July 1, the Commission has received the dues of \$14,000 from Utah and \$14,000 from Wyoming; and \$7,000 from Idaho - the other \$7,000 from Idaho will be forthcoming after the 1st of January, I understand.

We have had interest income of approximately \$1,000; we have had one expenditure of \$12.75 for some printing; leaving us a balance of approximately \$48,000 as of this date.

The detailed account of the Secretary-Treasurer is not available at this moment, but we will hope to get one in your hands before this meeting is over. There was a breach in communications; I was out of the State last week and they weren't printed up; but this is substantially the report. We will have the exact balance later today.

CHAIRMAN LARSON: You've heard the Report. A Motion is in order to receive and file the report for our record.

MR. DAYTON: I would move that we accept the report of the Secretary-Treasurer.

CHAIRMAN LARSON: Is there a second to the Motion?

MR. JENKINS: I'll second.

CHAIRMAN LARSON: You've heard the Motion. Those in favor say 'aye'. Opposed?

MOTION CARRIED.

STATEMENT OF INCOME AND EXPENDITURES

FOR THE PERIOD OF JULY 1, 1973, TO OCTOBER 31, 1973

<u>INCOME</u>	<u>CASH ON HAND</u>	<u>MISC. INCOME</u>	<u>APPROVED BUDGET</u>	<u>TOTAL REVENUE</u>
Cash Balance 7/1/73	\$13,867.86	\$ ---	\$ ---	\$13,867.86
State of Wyoming	---	---	14,000.00	14,000.00
State of Idaho	---	---	7,000.00	7,000.00
State of Utah	---	---	14,000.00	14,000.00
Interest on Savings and Other Income	---	\$ 540.02	---	\$ 540.02
<hr/>				
TOTAL INCOME TO OCTOBER 31, 1973	\$13,867.86	\$ 540.02	\$35,000.00	\$49,407.88

DEDUCT OPERATION EXPENSE

<u>EXPENDED THROUGH U.S.G.S.</u>	<u>Approved Budget</u>	<u>Unexpended Balance</u>	<u>Total Expenditure</u>
Stream Gaging	\$36,350.00	\$36,350.00	\$ - 0 -
Personal Service	6,708.00	6,708.00	- 0 -
Travel	200.00	200.00	- 0 -
Fiscal Charge	364.00	364.00	- 0 -
Washington Office Charge	728.00	728.00	- 0 -
General Office	200.00	200.00	- 0 -

Sub Total	\$44,550.00	\$44,550.00	\$ - 0 -
-----------	-------------	-------------	----------

EXPENDED THROUGH COMMISSION

Printing Annual Report	\$ 600.00	\$ 600.00	\$ - 0 -
Treasure Bond & Audit	300.00	300.00	- 0 -
Transcription of Minutes	100.00	100.00	- 0 -
Legal Consultant	300.00	300.00	- 0 -
Office Expense & Supplies	50.00	37.25	12.75
Miscellaneous	---	---	---

Sub Total	\$ 1,350.00	\$ 1,337.25	\$ 12.75
-----------	-------------	-------------	----------

Total Disbursements	\$45,900.00	\$45,887.25	\$ 12.75
---------------------	-------------	-------------	----------

UNEXPENDED CASH BALANCE OF OCTOBER 31, 1973			\$49,395.13
---	--	--	-------------

BEAR RIVER COMMISSION
DETAIL OF EXPENDITURE
FOR PERIOD ENDING OCTOBER 31, 1973

Voucher
No.

199	State of Utah Central Printing	\$ 12.75
201	1st Federal Savings	15,000.00
202	Western Savings	20,000.00

Sub Total	\$ 35,012.75
-----------	--------------

LESS: Amount Above In Savings Account	<u>35,000.00</u>
---------------------------------------	------------------

TOTAL EXPENDITURES PER PAGE 1	\$ 12.75
-------------------------------	----------

BANK RECONCILIATION
OCTOBER 31, 1973

Cash in Bank per Statement 10/31/73	\$ 3,034.62
-------------------------------------	-------------

Less: Outstanding Checks	<u>None</u>
--------------------------	-------------

Total Cash in Bank	\$ 3,034.62
--------------------	-------------

Plus: Savings Accounts	Western Savings	\$ 20,000.00
	1st Federal Savings	16,360.51
	American Savings	<u>10,000.00</u>

TOTAL CASH ON HAND AND IN THE BANK	\$ 49,395.13
------------------------------------	--------------

BEAR RIVER COMMISSION

SPECIAL NOTE

The financial statement for the period ending March 31, 1973, showed a cash balance on hand of \$34,800.58. Since that time, and prior to July 1, 1973, we received additional income and additional expenditures were incurred that are not shown on the October 31, 1973, statement.

The reconciliation is shown below:

BALANCE AS OF 3/31/73		\$34,800.58
Plus Interest Income		<u>1,632.78</u>
		\$36,433.36
Check 195 William Dean Kimber	\$ 200.00	
196 Connie Borrowman	50.00	
197 Herald Printing	13.50	
198 Rose Printing	589.00	
200 U. S. Geological Survey	<u>21,713.00</u>	
LESS TOTAL INTERIM EXPENDITURES		<u>22,565.50</u>
CASH BALANCE AS OF 7/1/73		<u>\$13,867.86</u>

The balance of \$13,867.86 is the same as the beginning balance of the report of October 31, 1973.

REPORT OF ASSISTANT SECRETARY

CHAIRMAN LARSON: Next is the report of the Assistant Secretary.

MR. JIBSON: The manuscript part of this report isn't as bulky as it looks, so I think we can read over it. Did everyone get a copy? This report is on 1973 water supply and Compact operations.

(A copy of the Report of the Assistant Secretary follows, with the following comments made as indicated:)

Middle para. page 8:

We think there may be a small amount there, but it is very difficult when the supply above is dropping rapidly to make sensible regulation and try to foresee what is going to happen in this division.

Last para. page 8:

I am referring to the short period (see page 9) where you see a heavy dashed line from about the 4th to 20th of July; and then the storms increased the supply and the divertible flow to a point where we were not in regulation again until about the 3rd of August. From then through the balance of the season the rate of diversion was considerably below the Compact allocation.

Last para. page 12:

Mr. Bishop mentioned that he thought this might be in error and perhaps Marv or John could straighten us out on this.

MR. BOLLSCHWEILER: That is in error.

MR. JIBSON: This is from the summary that came to us.

MR. BISHOP: Only 42 acres - it looks like it should be .6 of a second-foot.

MR. JIBSON: I knew the Hospital had gone out of the farming business; and I couldn't figure where they would be taking that much water. I should have checked a little further, but we were rather swamped in getting this out.

MR. BISHOP: I apologize.

MR. JIBSON: Well, you might glance through those filings, gentlemen; and if you have any further questions on them we could discuss these at this time. Unless there are questions, Mr. Chairman, this concludes my report.

MR. LAWRENCE: Mr. Chairman, I think a couple of points in Mr. Jibson's report require action by this Commission. Is that right? I may have missed some of them, but on page 11 he recommends the discontinuing of four stream-gaging stations. We have talked this over; and as far as I am concerned, we have no objection. They probably should be handled by the individual operators rather than by the Commission. Isn't that your view? It would be nice for us to have them; but I doubt if we can justify expenditure by the Commission on them.

MR. JIBSON: As I mentioned, we will circulate our intent on these stations for anyone who is interested and would like to continue them. They will be left intact for sometime.

MR. HOLMGREN: Mr. Chairman, I wanted to ask Mr. Jibson -- In our meeting in April, I believe I asked the question if the Duck Club has filings on the Malad River water; and I didn't get an answer on that. Referring to the one gaging station you planned to close.

MR. JIBSON: Dee Hansen had intended to check that. I don't see him here today, Paul, and I didn't pursue it further because of his intention. Norm, do you remember what was mentioned at the last meeting -- 50 or 75 second-feet? Dee made a guess and was going to verify it.

MR. LAWRENCE: You have that in the Minutes of the last meeting.

MR. HOLMGREN: Yes, I do. Wally mentioned that the gaging station was installed in 1964. We don't know how it was controlled before that. I don't think we have any real problem there; but as was mentioned in April, there are times when the Duck Club takes practically all of the water out of the Malad River at that point in the dry part of the summer. I don't know if this is a bad thing or not; but from a historical standpoint, I don't know if it could create some kind of a precedent which would eventually divert all of the water and almost discontinue this flow of the Malad River down to the point where it enters the Bear River. Whether this would create a problem in the future, I don't know.

MR. JIBSON: It was Norm Stauffer who made the comment on the right, and he did say 75 second-feet, according to the Minutes.

MR. HOLMGREN: They have a fellow who runs that, Mr. Sherm Walker, who is a very fine man and a friend of mine; but I know Sherm and the Duck Club just seem to throw boards in the dam up there for the water they feel they need, without any consideration that somebody down below might be needing the water too. I guess about all it is used for below that diversion is stockwatering; and some of the fellows who have cattle on the River have complained that the

River fluctuates so much that they can't keep their fences up, and sometimes the cattle cross the River.

Well, I just thought I'd mention that, inasmuch as we had discussed it in April; and there doesn't seem to be an answer on how much they have filed for.

MR. JIBSON: We'll find that out, Paul, and probably get it to you this afternoon.

MR. HOLMGREN: Okay. As far as abandoning the station, I have no quarrel with that. I suppose it is alright from an economy standpoint.

MR. BISHOP: Mr. Chairman, if it's appropriate, I would move that the Commission approve the discontinuance of these four gaging stations.

CHAIRMAN LARSON: Is there a second?

MR. JENKINS: I'll second.

CHAIRMAN LARSON: You have heard the Motion. It has been seconded. Is there any discussion? Those in favor say 'aye'. Opposed?

MOTION CARRIED.

MR. LAWRENCE: Mr. Chairman - on page 12, under the Budget - does this require any action on our part, Wally? It says, "hopefully we can absorb this additional cost."

MR. JIBSON: No; not at this time.

MR. LAWRENCE: Who is "we"?

MR. JIBSON: The Geological Survey.

One reason we like to keep a balance in the bank account of the Commission is that if we do get in a spot - we turn a little money back nearly every year - then we'd like to come to the Commission without having to have you go back to your legislatures, and then to modify the Cooperative Agreement if necessary from this reserve in the bank account.

MR. LAWRENCE: Well, that was the point I was going to make. We do have some reserve and perhaps the Commission might have to adjust it, and could do without changing the structure.

MR. JIBSON: I would guess that by our April meeting we will be in a better position to ask for Commission action if need be.

MR. BISHOP: Mr. Chairman, on that same subject -- I personally feel, and I think everybody would agree, that Wally Jibson and the Geological Survey do an excellent job of managing the cooperative program on the Bear River. And I think they are to be commended; and we should all appreciate their efficient handling of the cooperative data collection program on the Bear River.

MR. LAWRENCE: I don't know of any other Commission that we belong to where we get half the expense paid by the Geological Survey.

MR. BISHOP: Right.

CHAIRMAN LARSON: Any other questions or comments?

REPORT OF LEGAL CONSULTANT

CHAIRMAN LARSON: If not, the next would be the report of the Legal Consultant, Mr. Skeen. But he is --

MR. BISHOP: I have one question I'd like to ask Wally. I notice that the streamflow forecasts seem to be consistently off. Is there an explanation for that?

MR. JIBSON: Smiths Fork, evidently, is a very difficult stream to forecast. And, of course, from the standpoint of compact operation, it is perhaps our most important stream. This is where regulation takes place between Wyoming and Idaho. I discussed this with Bob Whaley of the Soil Conservation Service and with others. They always have some difficulty forecasting as close as they do, it doesn't follow the pattern that the main stem does. When it's up (percentagewise) the other is down, and vice versa. I guess it's just a matter of improving their accuracy a little each year. But once in a while, like this year when they're off 40%, it really doesn't give us a very good forecast to go by as of the 1st of May. The snow courses - they use a couple of snow courses for Smith Fork that are used also for other drainages, and this is the word I get from them, that it is very difficult to get the correlation they would like to get.

MR. LAWRENCE: Was the precipitation below normal during the period?

MR. JIBSON: No; actually the precipitation in July set new records over parts of the Basin. The high precipitation would tend to make the forecast wrong in the other direction, but the forecast on Smith Fork was too high.

MR. DAYTON: Well, Wally, last year was an unusual year wasn't it, as far as the differential?

MR. JIBSON: It was very unusual. As a matter of fact, with 74% of average flow from Smith Fork in May to September, if it had not been for the unusual July precipitation we could have had real problems for the Smith Fork users, particularly with respect to interstate regulation. It seemed like after that one storm hit, even though later storms were not of that magnitude, throughout the season we had many cloudburst-type storms in the upper basin.

MR. DAYTON: So, generally, the difference isn't that much, is it?

MR. JIBSON: No; ordinarily 20% to 25% error is about average.

MR. BISHOP: It would seem to me, though, that perhaps they should be considering modifying their snow survey locations, and changing their whole approach on Smith Fork. Actually, if they hadn't had this heavy precipitation in July, they would have been more than 50% off; and that's pretty bad. They ought to be better than that, really.

MR. LAWRENCE: Mr. Chairman -

MR. HIGGINSON: Wally, I think there's an error in your report - on page 7, at this point. You've got "May - July forecast exceeded measured streamflow by 14 percent". You don't mean "exceeded"?

MR. JIBSON: Yes; it exceeded the measured streamflow. They forecast too high.

MR. HIGGINSON: Not on the Upper Bear. The numbers are wrong then.

MR. JIBSON: The numbers are wrong. The forecast is 115,000 as shown, but we have a typographical error in the measured discharge.

MR. HIGGINSON: There is something wrong with that statement or the figures.

MR. JIBSON: Right. I don't have the basic information. The 115,000 is correct; the 14% is correct; but the 220,000 is way off. I'm glad you called this to our attention. Smith Fork and Bear River in quantity usually are within 15% or 20% of each other.

MR. HIGGINSON: Could we get that corrected for the Minutes?

MR. JIBSON: They will be corrected.

CHAIRMAN LARSON: Any other comments?

As I started to say before, the next item is Report of Legal Consultant. But there will be no report since Mr. Skeen is on a case in California, and couldn't make it back.

REPORT OF COMMITTEES

CHAIRMAN LARSON: The next item is report of Committees. We have the Operations Committee; and the Budget Committee; and a special State Engineer's Committee; but I assume there are no reports at this time.

Mr. Myers - the Budget Committee, I believe you're Chairman - at least I've got you down as Chairman.

MR. MYERS: That's right. No report.

CHAIRMAN LARSON: I know Mr. Dayton is on the Operations Committee -

MR. DAYTON: No report.

CHAIRMAN LARSON: And I'm sure there's no report of the State Engineers. Well, we're going right through here.

UNFINISHED BUSINESS

CHAIRMAN LARSON: Unfinished Business -- I assume there is none.

NEW BUSINESS

CHAIRMAN LARSON: New Business - we have Mr. Kunz who will make a report on the meeting held at Bear Lake.

MR. KUNZ: Mr. Chairman, I think the primary purpose of that meeting held at Bear Lake was to discuss their financial difficulties; and there is one official who has stayed aware of this. As you stated, Wally Jibson was the official representative of the Commission; and I believe he has a brief resume prepared which could be attached to the Minutes of this meeting. So I think maybe Wally should present this statement that he has at this time.

MR. JIBSON: I wasn't sure who would give this, so I jotted down a few things from memory and from some material that I have received since the meeting from the Bear Lake Regional Commission.

The Bear Lake Regional Commission is a two-state entity, organized under Statutory authority, that includes Bear Lake and Rich Counties, with State and local personnel represented on the Commission. Ex-officio membership can include Federal personnel or other public or private representation.

Its purpose is to identify, study, and attempt to resolve problems relative to development of the Lake area, and to coordinate planning efforts of other agencies. To furnish technical aid to local governments

and to serve as a reviewing and policy-making body with respect to projects and proposals.

Financing of the Commission is by contribution from Federal and State agencies and by local cash assessments to the counties and cities involved. The primary purpose of the meeting at Garden City, August 17th was to present their program to representatives of State and Federal agencies and other organizations and enlist their support financially and otherwise. Following the meeting, a boat tour of the entire shoreline of Bear Lake was made and a State of Utah plane transported some newsmen on an unscheduled tour of the Lake bottom.

Since the meeting, a formal application for a planning assistance grant has been made to the Mountain Plains Federal Regional Commission. This is a commission with headquarters in Denver; and I guess they are the one coordinating Federal agency now that would handle such grants.

Ferris, I wonder if you have anything additional to this that you would like to include.

MR. KUNZ: I believe that is sufficient; and I would move that this be made a part of the Minutes of this meeting.

MR. JENKINS: Second the Motion.

CHAIRMAN LARSON: You have heard the Motion. Those in favor say 'aye'. Opposed?

MOTION CARRIED.

MR. KUNZ: One other thing, Mr. Chairman, while I seem to have the floor here: Idaho has had some additional representation show up here. I think you are all familiar with our legal counsel, Mr. Nathan Higer from the Attorney General's office. We also have the new Director of the Idaho Water Resources Board who, I don't believe has been introduced to this group, Mr. Steve Allred. And a member of his staff, Alan Robertson, whom you have met before.

MR. LAWRENCE: Mr. Chairman -

CHAIRMAN LARSON: Thank you. Are there any comments from anyone else? We're through in a hurry - it's only -

MR. LAWRENCE: Mr. Chairman, I wonder about the report that has just been made by Mr. Kunz and Mr. Jibson. Do we need to discuss the possibility of participation by this Commission at all, or have we already taken care of that in previous meetings? Any relationship with the Bear Lake Commission we ought to have, or to not have?

MR. KUNZ: Dan, I don't really know how to answer you there. They make this Commission aware of all of their meetings, and invite their attendance. I don't know at this time whether they want any official input to that or not. I think at the present time what they are looking for is merely observation. There may come a time when it will be imperative that the Commission be officially represented at those meetings. At the present time I see no real reason for it; but it could very well come to pass. This would be my reaction.

MR. JENKINS: Mr. Chairman -- quite unofficial, but I was riding around in the tour boat with the staff members, and certainly one of their objectives is to minimize the fluctuation in elevation of Bear Lake. And this would almost be directly opposite to our desires of having the maximum utilization of the water.

MR. KUNZ: In this regard though, Griff, I would think that their attention in this matter should be for us to consider rather than them. I think on this issue they would be more advisory than we are. I don't think they have any control of fluctuation; they can express their desires, but they would have no authority to do any regulation.

MR. LAWRENCE: But it might be important for us to make the public aware, or at least prevent statements to the public that they are going to control the level, so that the public is not misled about our authority and responsibility. And I think it would be not in our best interest if we sat by and didn't respond to any overt plans that they might have to control the level.

CHAIRMAN LARSON: Any other comments - either from the Commission, or members in this room?

MR. JIBSON: I just might state, as far as representation of some of the Federal agencies, there was a representative at the meeting who is a member of the Secretary of Interior's staff, stationed at Denver. Margo Fraker is her name; and she recommended an official representative from each of about four Federal agencies; Mr. Arnow, our District Chief here in Salt Lake, will be the official representative of the Geological Survey at future Commission meetings, as we are invited in by the Commission. He is not officially a member of the Bear Lake Regional Commission, but will serve as a representative of our agency, when invited.

CHAIRMAN LARSON: Anyone else have any comments?

MR. DAYTON: Mr. Chairman, in line with what Mr. Lawrence has said, it would appear to me that anything that is done on Bear Lake would certainly have a bearing on this Commission; and certainly we should be aware of what is going on and be informed, I would certainly think.

CHAIRMAN LARSON: Speaking for myself as Federal representative, I would be interested in having copies of any Minutes and maybe attend meetings, so that the Federal representative would have a complete file - whoever takes my place sometime in the future.

MR. KUNZ: Mr. Chairman, you have been notified of all the meetings.

CHAIRMAN LARSON: Yes; and I assume that they will do that.

MR. KUNZ: Well, I would assume that they would continue.

MR. JIBSON: I'll get you copies of everything that I have with respect to the meetings.

CHAIRMAN LARSON: That would be fine; so that I would have a complete file, a Federal Representative file.

Well, if there are no other comments from anyone, I think the meeting can stand adjourned. I don't believe we need a Motion. If anybody has anything to say -- ? Meeting will stand adjourned.

Meeting adjourned at 11:00 a.m.

REPORT TO BEAR RIVER COMMISSION

November 19, 1973

Wallace N. Jibson
Assistant Secretary

1973 Water Supply and Compact Operation

Water Supply

Main river supply from the Uinta watershed was about average for the irrigation season with tributary inflow in the Upper Division running somewhat above average, but supply dropped rapidly after mid-June and about 15,000 acre-feet of Woodruff Narrows Reservoir water was used in the period June 24 to July 15. Smiths Fork, however, dropped below average somewhat earlier in the season and prior to heavy irrigation demand so yielded only 74 percent of average for the May-September period. Likewise, most tributaries in the Lower Division were 5 to 15 percent below average, though Little Bear River and Blacksmith Fork exceeded the average runoff.

Heavy rainfall in mid-July with moderate amounts again in August and September alleviated potential shortages, particularly in the Smiths Fork area. The storms brought relatively high inflow into Woodruff Narrows Reservoir in July, early August, and throughout most of September resulting in a storage increase from 13,000 acre-feet on July 15 to 18,400 acre-feet by September 30 in spite of releases in August that decreased the content by 2,500 acre-feet. The hydrograph of elevations and contents of Woodruff Narrows Reservoir is shown in figure 3, page 5.

Seasonal patterns of runoff are shown in figures 1 and 2 for the two principal watersheds in the Upper and Central Divisions. In figure 1 is shown the flow entering Wyoming from the Uintas for 1973 and for the 1943-73 period. Similar data are shown in figure 2 for Smiths Fork supply above diversions.

Comparison of 1972 and 1973 seasonal and water-year streamflow with longtime average streamflow is shown in the following tables. The three records, representative of each of the river divisions, are indicators of principal watershed supply for the entire basin. It is interesting to note that the seasonal supply from Smiths Fork was less than half of last year, so runoff contribution from this major tributary offset the above-average river runoff reaching Cokeville from the upper basin. As a result, supply entering Idaho and subsequently reaching Bear Lake was in the average range for the May-September period.

Streamflow in Acre-Feet

	<u>May - September</u>			1973 as Percent of Average
	<u>1972</u>	<u>1973</u>	<u>Average 1943-73</u>	
Upper Bear River	127,400	114,500	116,000	99%
Smiths Fork	163,700	81,000*	109,900*	74%
Logan River	182,100	102,500	122,600	84%
<u>Water Year</u>				
Upper Bear River	155,600	138,900	138,800	100%
Smiths Fork	206,200	115,600*	142,700*	81%
Logan River	275,500	166,600	183,800	91%

* Provisional record, subject to change

UPPER DIVISION - BEAR RIVER SUPPLY *

CUBIC FEET PER SECOND

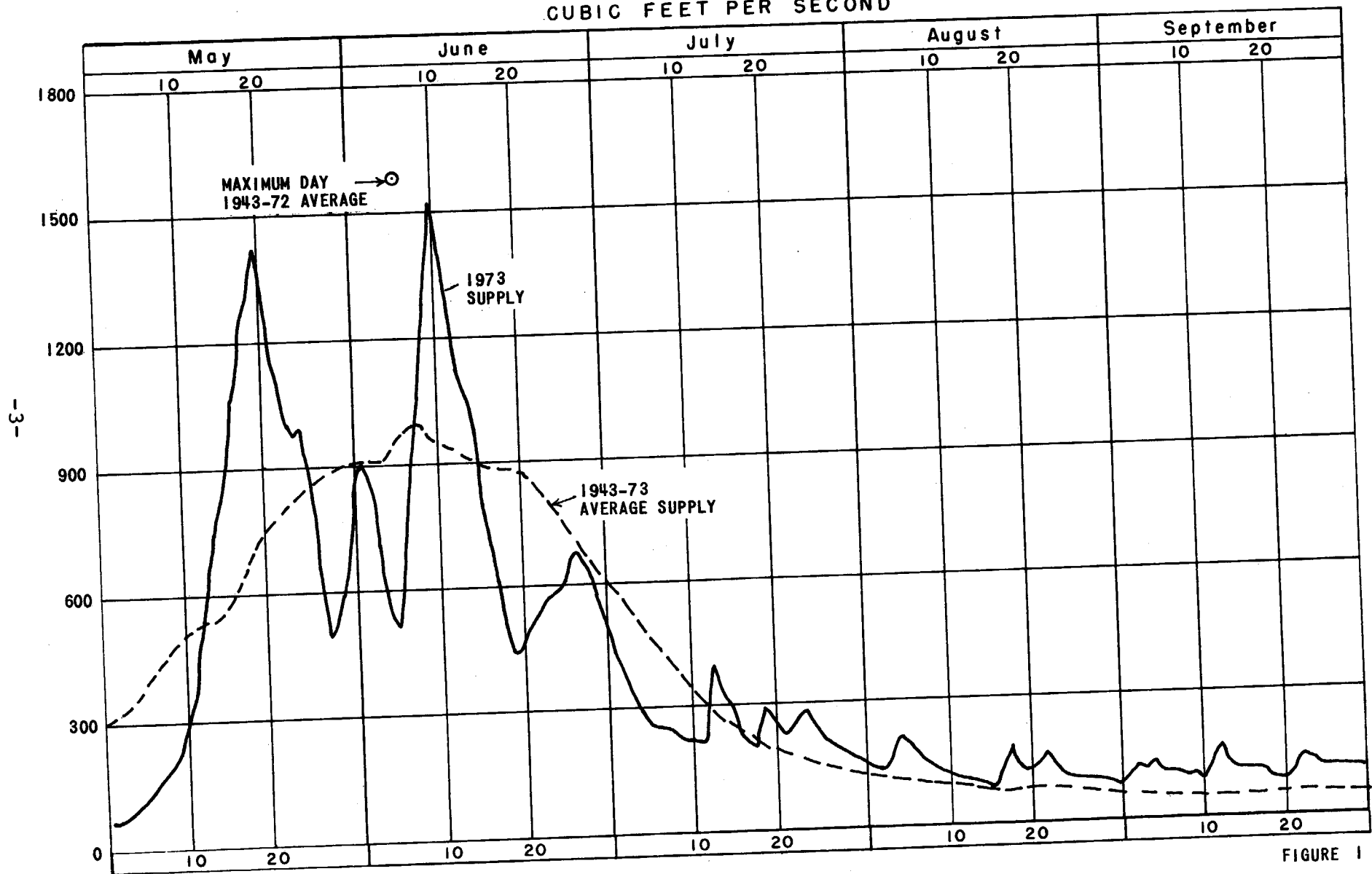
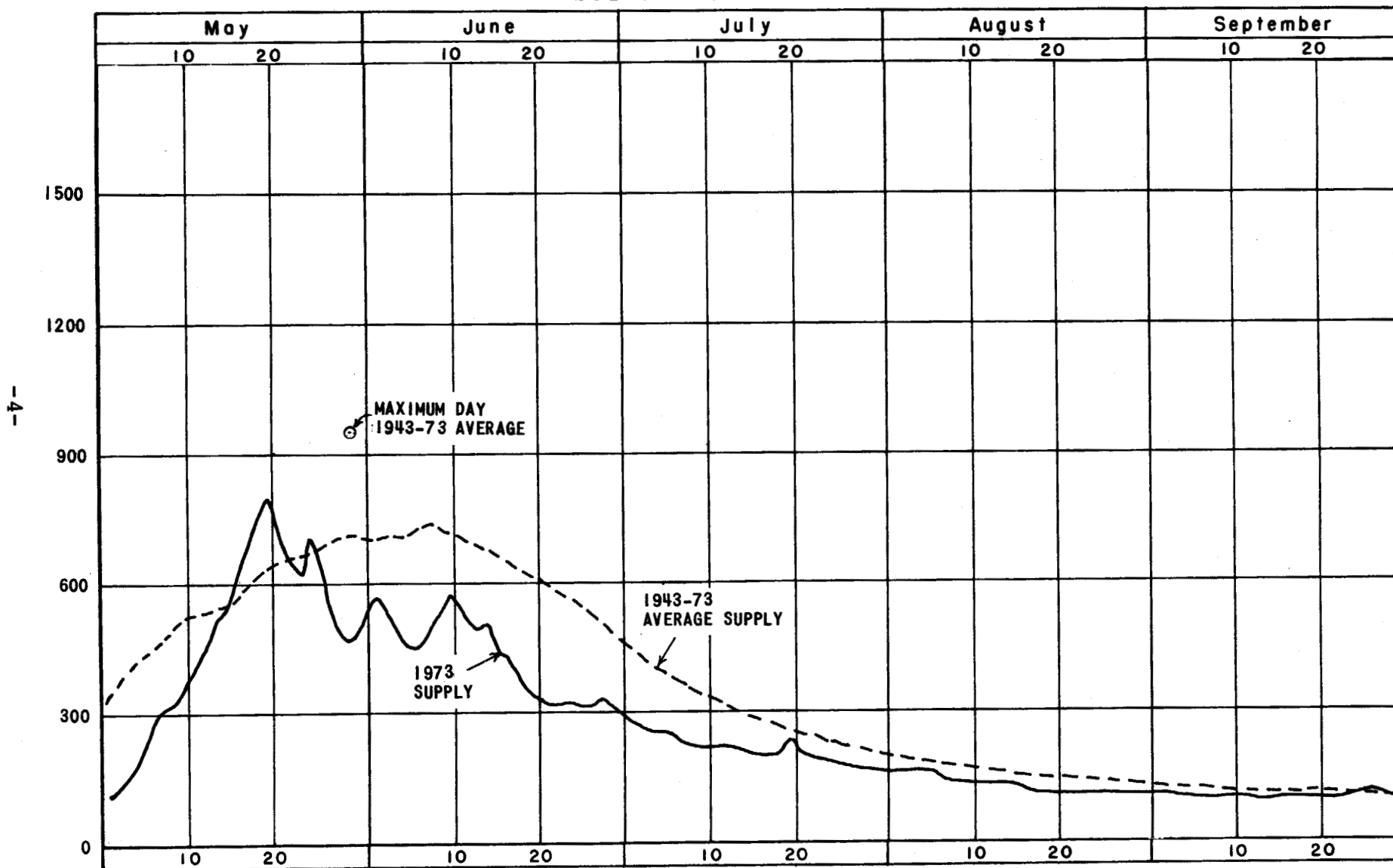


FIGURE 1

*Bear River near Utah-Wyoming State line

CENTRAL DIVISION - SMITHS FORK SUPPLY *

CUBIC FEET PER SECOND



*Smiths Fork near Border, Wyoming

FIGURE 2

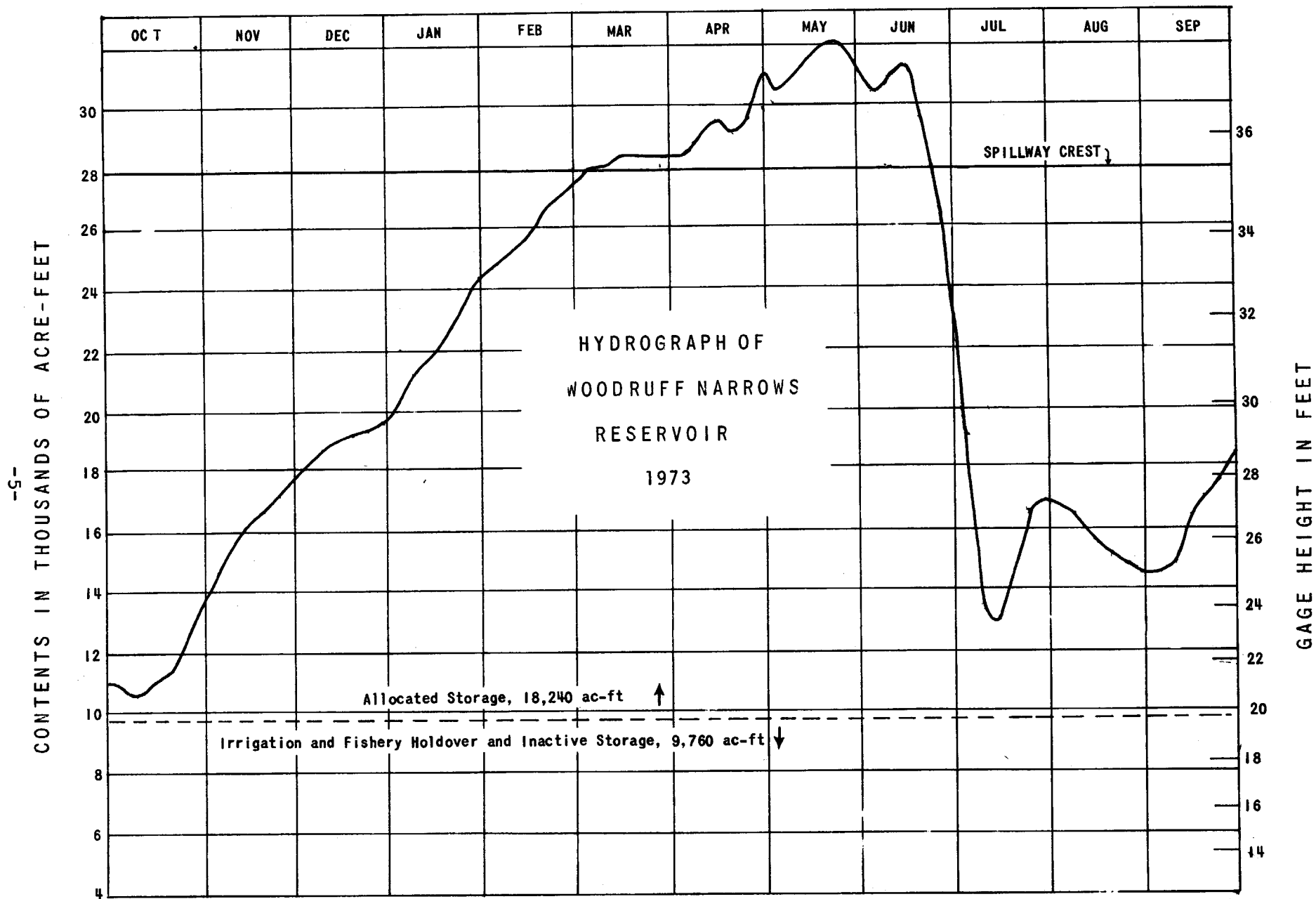


Figure 3

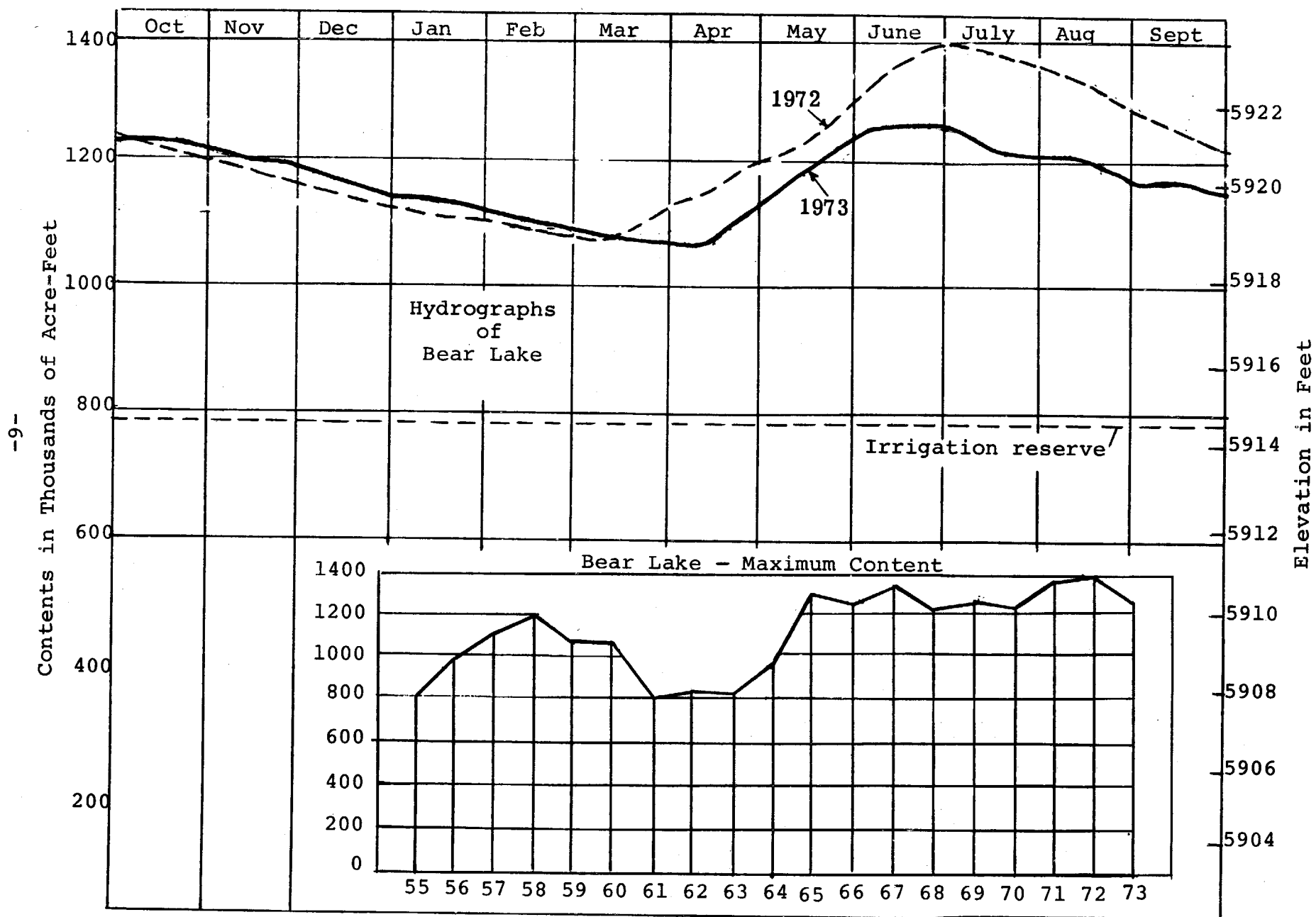


Figure 4

Cooperative forecast, as of May 1, again overestimated seasonal water supply at key gaging stations in each of the Upper, Central, and Lower Divisions. May-July forecast exceeded measured streamflow by 14 percent from the Uintas, by 43 percent from Smiths Fork, and by 11 percent from Logan River.

May - July Runoff in Acre-Feet

	<u>Measured</u>	<u>SCS-Coop Forecast</u>
Upper Bear River	100,500	115,000 (+14%)
Smiths Fork	* 85,500	*122,000 (+43%)
Logan River	81,040	90,000 (+11%)

* April - September

Reservoirs

Hydrographs of the surface elevation and usable content of Bear Lake are shown for 1972 and 1973 in figure 4. The Lake reached a maximum elevation of 5,921.28 feet (Usable content, 1,254,000 acre-feet) on June 9 from the annual low point of 5,918.52 feet, April 8-11. Maximum elevation, about two feet below 1972, was maintained for about two weeks before the relatively small net seasonal draft lowered the Lake 1.44 feet.

As mentioned earlier, Woodruff Narrows Reservoir supplied about 15,000 acre-feet of stored water in late June and early July to augment direct flow. Subsequent net release of about 2,500 acre-feet in August was made primarily to pull down the storm buildup rather than to provide fall irrigation. Sulphur Creek Reservoir likewise gained from storm runoff in July and

began spilling again about July 20, following a release of only 500 acre-feet. Later, the reservoir was pulled down about 2,500 acre-feet. Whitney Reservoir has been releasing a small amount of storage this fall and is now storing about 3,000 of a total capacity of 4,700 acre-feet. Both Sulphur Creek and Whitney Reservoirs were full and spilling past mid-August.

Streamflow Distribution

Final computation of canal records in the Upper Division is not yet complete, so hydrographs of diversion and allocation data could not be prepared for this meeting. The usual pattern of diversions was followed and no particular difficulties were noted; however, interstate allocation was in effect following the rapid decline in supply after June 10. Regulation of canals in Upper Wyoming Section was made in the first week of July, but the amount of excess diversion, if any, in this section during the last two weeks of June is not yet computed.

Central Division graphs of diversion and allocation data are shown in figures 5 and 6. The effect of the heavy July rainfall is noted especially in this division. Wyoming Section diverted within compact allocation except initially for a few days in July, but the graph of diversion included in this report is provisional pending completion of the final records which may revise slightly the amounts shown.

CENTRAL DIVISION - WYOMING SECTION

CUBIC FEET PER SECOND

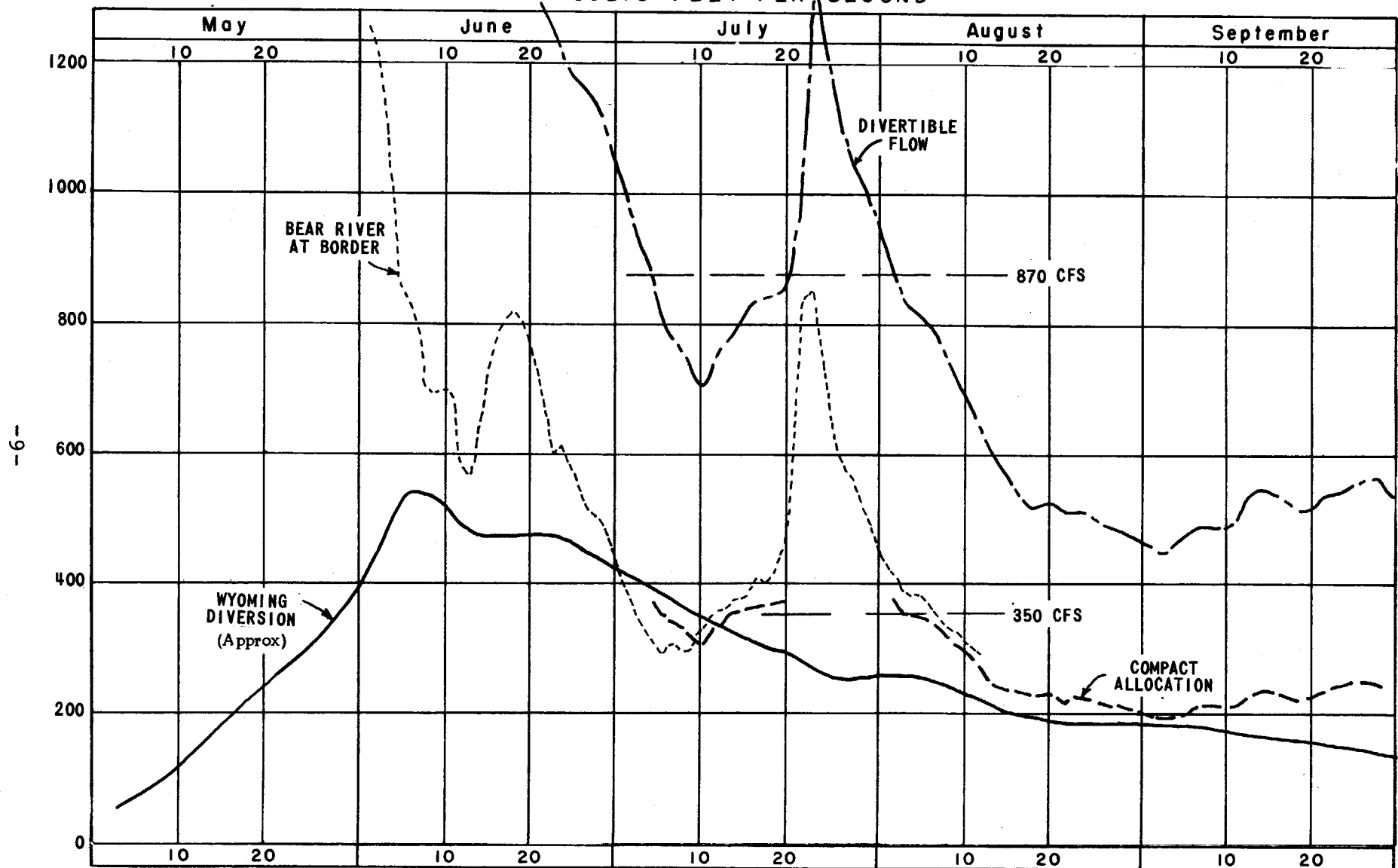


Figure 5

CENTRAL DIVISION - IDAHO SECTION

CUBIC FEET PER SECOND

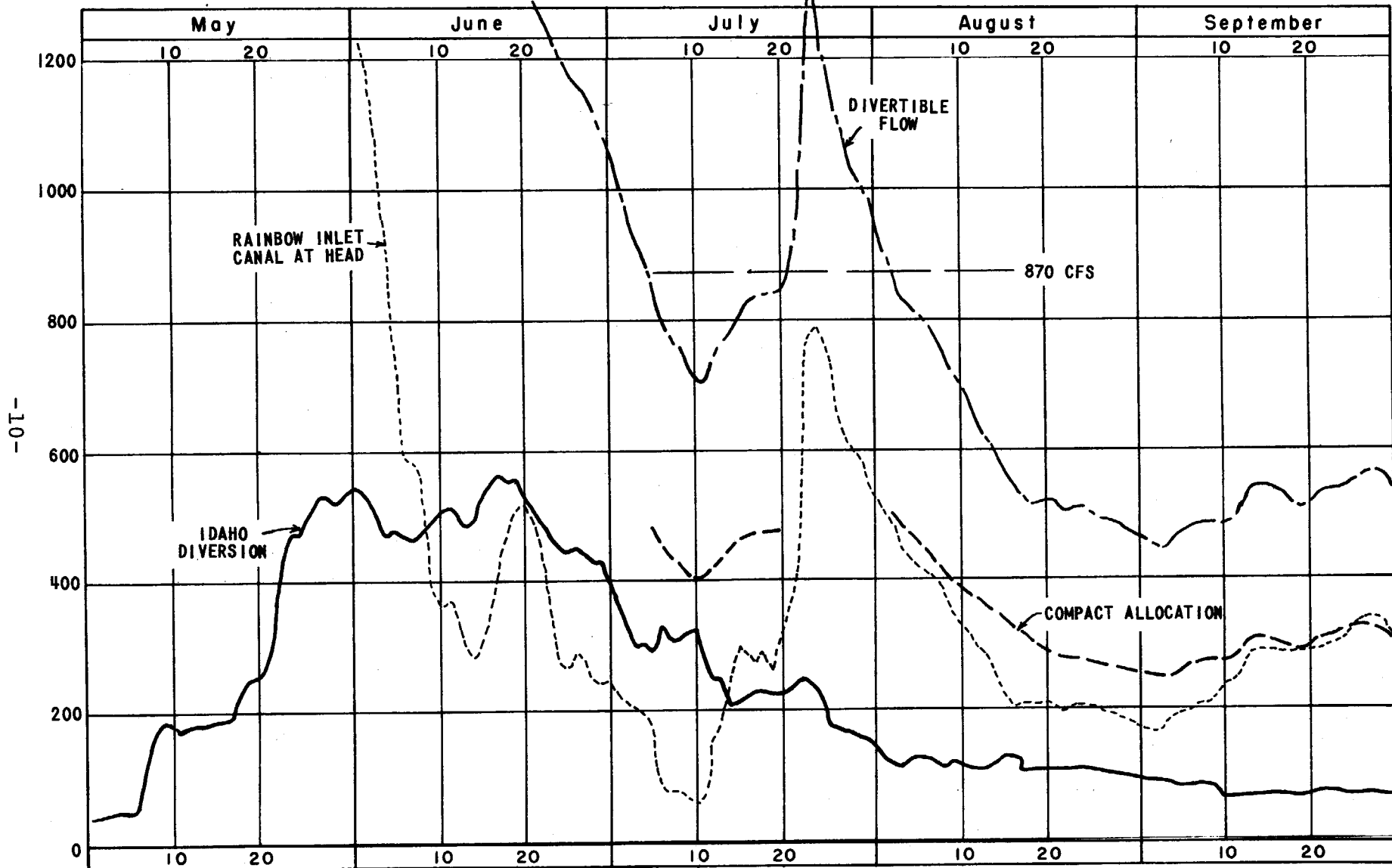


Figure 6

Stream-Gaging Program

It was decided in our April meeting that after consultation with the Utah State Engineer we would make a recommendation at this time relative to discontinuing four or more gaging stations that either have sufficient record or evidently serve primarily local interests. Mr. Arnow and I met with Dee Hansen on October 1 and discussed the purpose and area of need of eight or ten gaging stations located in Utah. It was concluded that the following gaging stations, currently remaining in operation, should be recommended to the Commission for immediate discontinuance. If the Commission concurs in this recommendation, a letter of notification of our intent will be circulated to all interested agencies and individuals for concurrence or suggestions for continuing any of the stations under different financing. These stations are:

- 1046 - South Fork Little Bear River nr. Avon, Ut.
- 1075 - Little Bear River (below Hyrum Reservoir)
- 1257 - Bear R. Duck Club Canal nr. Bear River City
- 1258 - Malad R. below Bear River Duck Club Canal

The Hyrum Reservoir record (Number 1070) is primarily a furnished record, and we feel it advantageous to continue publishing this record. Other records discussed, particularly in Cache Valley, are felt to be of general interest relating to overall operation and future development of the entire basin and as such are of sufficient interest to the Commission to justify continuance.

Two stations were established as of October 1, in accordance with the Commission request, on two of the headwater

tributaries of Bear River. One is operating on the West Fork of Bear River a short distance below the mouth of Deer Creek and immediately below a dam site in this area. The station is located on property of Anschutz Land and Livestock Company. The second is above diversions on East Fork of Bear River about two miles below the Salt Lake Council Boy Scout area. This station is on Forest Reserve property and is also located at a potential dam site.

Budget

Cooperative funding for the fiscal year ending June 30, 1973 was underspent and revised downward in the amount of \$1,600. The revision applied only to the stream-gaging program, so 50 percent of the amount remained unobligated in the Commission bank account and 50 percent returned to the Federal side. The current fiscal year budget was estimated on the assumption of a general pay raise next January 1st rather than October 1, 1973. Hopefully, we can absorb this additional cost along with the cost of installation of the new gaging stations.

Applications for Appropriation

An increase in filings is noted this past six months, particularly in Wyoming and Idaho. Again, most are ground water applications and in Wyoming are primarily for stock and domestic use. A rather large filing for 35.2 cfs is made from Bear River by the Wyoming State Hospital. A few pump and spring rights for 1.0 to 4.0 cfs are noted in Utah filings and several filings in this range have been submitted from Idaho. A number of the Idaho filings are from surface water sources.

Applic Number	Date of Filing	Name	Source	Use	Location	Amount (cfs)
<u>STATE OF WYOMING</u>						
214/168	11- 8-72	Thoman Livestock Co.	Twin Creek	Stock	S 4 T21N R119W Lincoln	4.93 ac-ft
212/184	1- 8-73	Emil A. Zebre	S. Fk. Dempsey Cr.	Stock	S35 T24N R118W Lincoln	0.056
213/184	1- 8-73	Emil A. Zebre	Phil's Fork	Stock	S26 T24N R118W Lincoln	0.056
214/184	1- 8-73	Emil A. Zebre	Emils Fork	Stock	S26 T24N R118W Lincoln	0.056
215/184	1- 8-73	Emil A. Zebre	Middle Fk Dempsey	Stock	S26 T24N R118W Lincoln	0.056
216/184	1- 8-73	Emil A. Zebre	Francis Fork	Stock	S35 T24N R118W Lincoln	0.056
215/220	4-26-73	Dallas Johnson et al	Bear River	Irrig.	S 3 T21N R120W Lincoln	4.46 8.96
211/223	5- 2-73	Wyo. State Hospital	Bear River	Irrig.	S 1 T14N R120W Uinta	35.21 0.6
6-3-179	6- 5-72	Kent & Paula Erickson	Ground Water	Dom.	S 6 T30N R118W Lincoln	.022
6-5-196	6-23-72	Rick & Dennis Cornelison	Ground Water	Dom., Stock	S34 T14N R119W Uinta	.044
6-1-311	10-10-72	Carl A. Annala	Ground Water	Commercial	S 4 T20N R116W Lincoln	.042
7-2-117	12-20-72	Joseph E. Barker	Ground Water	Dom., Stock.	S28 T13N R119W Uinta	.056
7-3-117	12-20-72	Joseph & Florence Barker	Ground Water	Dom., Stock.	S28 T13N R119W Uinta	.056
7-4-117	12-20-72	W.E. Barker	Ground Water	Dom., Stock.	S21 T13N R119W Uinta	.044
7-12-116	12-20-72	Kenneth & Betty Lester	Ground Water	Stock	S 3 T13N R119W Uinta	.011
7-10-116	12-20-72	Kenneth & Betty Lester	Ground Water	Dom., Stock	S 2 T13N R119W Uinta	.033
7-11-116	12-20-72	Kenneth & Betty Lester	Ground Water	Stock	S 3 T13N R119W Uinta	.033
6-10-377	11-17-72	William Wagstaff	Ground Water	Dom., Stock	S21 T13N R119W Uinta	.033
6-11-377	11-17-72	William Wagstaff	Ground Water	Stock	S21 T13N R119W Uinta	.011
6-12-377	11-17-72	William Wagstaff	Ground Water	Stock	S21 T13N R119W Uinta	.011
7-11-118	12-20-72	Viola Coleman	Ground Water	Dom., Stock	S 4 T12N R119W Uinta	.044
7-12-118	12-20-72	Verl & Joyce Lester	Ground Water	Dom., Stock	S 2 T13N R119W Uinta	.056
7-1-125	12-20-72	Alex Jamison	Ground Water	Dom., Stock	S12 T14N R120W Uinta	.056
7-2-125	12-20-72	Alex Jamison	Ground Water	Dom., Stock	S12 T14N R120W Uinta	.044
7-3-125	12-20-72	Alex Jamison	Ground Water	Dom., Stock	S25 T13N R120W Uinta	.044
7-7-118	12-20-72	Lucille Brown	Ground Water	Dom., Stock	S 4 T12N R119W Uinta	.033

Applic Number	Date of Filing	Name	Source	Use	Location	Amount (cfs)
			<u>STATE OF WYOMING</u>	(Continued)		
7-9-117	12-20-72	Thomas W. Saxton	Ground Water	Dom., Stock	S 2 T14N R120W Uinta	.056
7-10-117	12-20-72	Wyuta Cattle Co.	Ground Water	Dom., Stock	S14 T13N R120W Uinta	.056
7-11-117	12-20-72	Wyuta Cattle Co.	Ground Water	Dom., Stock	S18 T12N R120W Uinta	.056
7-12-117	12-20-72	Wyuta Cattle Co.	Ground Water	Dom., Stock	S18 T12N R119W Uinta	.044
7-12-34	12- 5-72	Norman Kieffer & Housley	Ground Water	Dom.	S 6 T26N R112W Lincoln	.022
7-11-28	112-29-72	Peternal Brothers	Ground Water	Dom.	S27 T22N R116W Lincoln	.056
7-12-28	112-29-72	Peternal Brothers	Ground Water	Dom.	S20 T22N R116W Lincoln	.056
7-1-358	12-29-72	J.H. Bowns & J.W. Bowns	Ground Water	Dom., Stock	S36 T16N R121W Uinta	.011
7-12-357	12-29-72	J.H. Bowns	Ground Water	Dom., Stock	S36 T16N R121W Uinta	.056
7-9-281	12-29-72	John & Edna Peternal	Ground Water	Dom.	S27 T22N R116W Lincoln	.056
8-12-171	4- 4-73	J. Wilbur Bowns	Ground Water	Dom., Stock	S22 T15N R120W Uinta	.056
8-12-24	12-29-72	Elwin Sessions	Ground Water	Dom., Stock	S11 T16N R121W Uinta	.056
8-1-25	12-29-72	Elwin Sessions	Ground Water	Dom., Stock	S11 T16N R120W Uinta	.056
8-2-25	12-29-72	Elwin Sessions	Ground Water	Dom., Stock	S11 T16N R120W Uinta	.056
8-3-25	12-29-72	LDS Church- H. Ward	Ground Water	Dom.	S21 T13N R119W Uinta	.056
8-4-25	12-29-72	Marvin L. Danielson	Ground Water	Dom., Stock	S12 T12N R120W Uinta	.056
8-5-25	12-29-72	Marvin L. Danielson	Ground Water	Dom., Stock	S12 T12N R120W Uinta	.022
8-6-25	12-29-72	Marvin L. Danielson	Ground Water	Dom., Stock	S12 T12N R120W Uinta	.044
8-7-25	12-29-72	Lyman Brown	Ground Water	Dom., Stock	S24 T16N R121W Uinta	.056
8-8-25	12-29-72	Myers Ranch, Inc.	Ground Water	Dom., Stock	S12 T13N R120W Uinta	.056
8-9-25	12-29-72	Myers Ranch, Inc.	Ground Water	Dom., Stock	S 7 T13N R119W Uinta	.044
8-11-60	12-29-72	Joe Buckley	Ground Water	Dom., Stock	S32 T20N R119W Lincoln	.056
8-7-19	12-29-72	Carl & Joseph Lym	Ground Water	Stock	S32 T13N R119W Uinta	.056
8-8-19	12-29-72	Carl & Joseph Lym	Ground Water	Stock	S32 T13N R119W Uinta	.056
8-9-19	12-29-72	Carl & Joseph Lym	Ground Water	Dom., Stock	S33 T13N R119W Uinta	.044
8-10-19	12-20-72	Carl & Joseph Lym	Ground Water	Dom., Stock	S33 T13N R119W Uinta	.044

Applic Number	Date of Filing	Name	Source	Use	Location	Amount (cfs)
			<u>STATE OF WYOMING</u>	(Continued)		
7-1-388	12-29-72	M. Lamar Lester	Ground Water	Dom., Stock	S21 T13N R119W Uinta	.056
8-11-50	12-29-72	Jack Sims	Ground Water	Dom.	S19 T17N R120W Uinta	.056
8-12-50	12-29-72	Jack Sims	Ground Water	Stock	S19 T17N R120W Uinta	.011
8-1-51	12-29-72	Jack Sims	Ground Water	Stock	S31 T16N R120W Uinta	.044
8-2-51	12-29-72	Wm. & James Crompton	Ground Water	Dom., Stock	S 8 T15N R120W Uinta	.044
8-3-51	12-29-72	Wm. & James Crompton	Ground Water	Stock	S 5 T15N R120W Uinta	.056
8-4-51	12-29-72	Wm. & James Crompton	Ground Water	Dom., Stock	S 8 T15N R120W Uinta	.044
8-5-216	6-11-73	R.S. Petersen & Sons	Ground Water	Stock	S13 T22N R120W Lincoln	.056
7-10-261	12-29-72	Eugene Slagowski	Ground Water	Stock	S16 T15N R120W Uinta	.011
7-9-355	12-29-72	Albert L. Slagowski	Ground Water	Dom.	S23 T15N R115W Uinta	.056
8-9-50	12-29-72	Delbert Barker	Ground Water	Dom., Stock	S25 T16N R121W Uinta	.044
8-10-50	12-29-72	Delbert Barker	Ground Water	Stock	S25 T16N R121W Uinta	.044
8-8-50	12-29-72	Gwen Johnson & Wyo.	Ground Water	Dom., Stock	S36 T13N R120W Uinta	.044
8-5-50	12-29-72	Glen & Max Cowan	Ground Water	Dom., Stock	S14 T12N R120W Uinta	.056
8-4-50	12-29-72	Harold or Violet Burton	Ground Water	Dom., Stock	S34 T13N R120W Uinta	.056
8-3-50	12-29-72	Ves Lester	Ground Water	Dom., Stock	S34 T14N R119W Uinta	.056
8-2-50	12-29-72	George Schwitzer	Ground Water	Dom., Stock	S 3 T15N R120W Uinta	.044
8-1-50	12-29-72	Benjamin R. Larson	Ground Water	Dom., Stock	S35 T13N R120W Uinta	.044
8-9-49	12-29-72	Ronald L. Sims	Ground Water	Dom.	S 6 T15N R120W Uinta	.044
8-10-49	12-29-72	Ronald Sims	Ground Water	Dom., Stock	S36 T16N R121W Uinta	.056
8-11-49	12-29-72	Ronald L. Sims	Ground Water	Stock	S 6 T15N R120W Uinta	.056
8-7-84	12-29-72	Byron P. Matthews	Ground Water	Dom.	S24 T16N R121W Uinta	.044
8-2-89	1- 2-73	Byron & Helen Matthews	Ground Water	Dom., Stock	S24 T16N R121W Uinta	.044
8-7-124	2- 2-73	Rulon Nixon	Ground Water	Dom., Stock	S25 T16N R121W Uinta	.044
8-8-124	2- 2-73	Rulon Nixon	Ground Water	Dom., Stock	S36 T16N R121W Uinta	.044
8-9-129	2- 2-73	Lafern Sims	Ground Water	Dom., Stock	S 6 T15N R120W Uinta	.056
8-10-228	6-26-73	Ronald Sims & Son	Ground Water	Dom., Stock	S 6 T15N R120W Uinta	.056

Applic Number	Date of Filing	Name	Source	Use	Location	Amount (cfs)
<u>STATE OF WYOMING</u> (Continued)						
7-4-282	12-29-72	Richard or Lucy Martin	Ground Water	Dom.	S12 T12N R120W Uinta	.056
7-8-388	12-29-72	Richard Sims	Ground Water	Dom., Stock	S30 T17N R121W Uinta	.044
7-9-388	12-29-72	Richard Sims	Ground Water	Dom., Stock	S30 T17N R121W Uinta	.044
7-10-388	12-29-72	Richard Sims	Ground Water	Dom., Stock	S30 T17N R121W Uinta	.022
7-11-388	12-29-72	Richard Sims	Ground Water	Dom., Stock	S28 T16N R120W Uinta	.011
7-12-388	12-29-72	Richard Sims	Ground Water	Dom., Stock	S 2 T16N R121W Uinta	.044
7-1-389	12-29-72	Richard Sims	Ground Water	Dom., Stock	S 2 T16N R121W Uinta	.044
7-2-389	12-29-72	Richard Sims	Ground Water	Dom., Stock	S 2 T16N R121W Uinta	.056
7-3-389	12-29-72	Richard Sims	Ground Water	Dom., Stock	S32 T17N R120W Uinta	.022
7-4-389	12-29-72	Richard Sims	Ground Water	Stock	S32 T17N R120W Uinta	.056
7-5-389	12-29-72	Richard Sims	Ground Water	Stock	S 5 T16N R120W Uinta	.056
7-1-265	12-29-72	George & Ruth Smith	Ground Water	Dom.	S23 T15N R115W Uinta	.056
8-7-103	1-15-73	Blain K. Welling	Ground Water	Dom.	S35 T15N R120W Uinta	.056
8-9-293	8-30-73	A.E. & L.A. Hutchinson	Ground Water	Dom., Stock	S20 T13N R119W Uinta	.056
8-10-293	8-30-73	Lyman Brown	Ground Water	Dom., Stock	S24 T16N R121W Uinta	.056
All Applications Approved						
<u>STATE OF UTAH</u>						
29-1791	4- 2-73	G. Cleon Summers	Underground	Irrig.Dom.Stock	S34 T12N R4W Box Elder	2.0
29-1792	4- 2-73	G. Cleon Summers	Underground	Irrig.Dom.Stock	S14 T12N R4W Box Elder	2.5
23-3397	4-11-73	Gale McKinnon	Underground	Irrig.Dom.Stock	S21 T10N R7E Rich	0.015 *
25-5985	4-17-73	Jack Brown	Underground	Irrig.Dom.Stock	S 6 T10N R1E Cache	0.015 *
25-5986	4-16-73	J.L. Jaussi	Unnamed spring	Dom.	S10 T13N R1E Cache	0.015 *
29-1794	4-12-73	Lyman Thompson, et ux	Underground	Irrig.	S34 T12N R3W Box Elder	0.033 *
29-1795	4-19-73	Theo Coombs	Underground	Irrig. Stock	S20 T14N R3W Box Elder	4.0 *
25-5987	4-19-73	Donald L. Wolford	Underground	Irrig.Dom.Stock	S17 T11N R1E Cache	0.10
29-1797	4-24-73	Clint S. Judkins	Underground	Irrig. Stock	S11 T12N R2W Box Elder	0.50 *

Applic Number	Date of Filing	Name	Source	Use	Location	Amount (cfs)
<u>STATE OF UTAH</u> (Continued)						
25-5988	4-26-73	Warren Hales	Underground	Irrig.Dom.Stock	S22 T11N R1E Cache	0.50 *
29-1798	4-26-73	Maurice Staples	Underground	Irrig.Dom.Stock	S28 T11N R4W Box Elder	0.5 *
23-3398	4-30-73	Mike & Kathaleen Ellis	Underground	Irrig. Dom.	S18 T 9N R8E Rich	0.015 *
21-1331	4-30-73	John M. Holland	Underground	Dom.	S 9 T2N R10E Summit	0.015 *
23-3399	5- 1-73	Bacon & Gentner	Underground	Dom, shops	S 3 T13N R5E Rich	0.10 *
23-3400	5- 2-73	David M. Kelly	Underground	Irrig. Dom.	S25 T13N R5E Rich	0.015 *
25-5990	5- 4-73	Dennis McBride	Underground	Irrig. Dom.	S14 T10N R1W Cache	0.015 *
25-5993	5- 8-73	Wayne L. Norman	T.K. Obray Sp. Str.	Irrig. Stock	S29 T10N R1E Cache	5.0 **
25-5994	5- 9-73	Joseph S. Merrill	Underground	Irrig. Dom.	S22 T11N R1E Cache	0.10 *
25-5995	5-17-73	William Izatt, Jr.	Underground	Irrig.Dom.Stock	S11 T12N R1W Cache	0.03 *
23-3401	5-10-73	Merrill Transtrum	Underground	Irrig. Dom.	S32 T15N R5E Rich	0.015 *
25-5996	5-18-73	Lawrence Paul Evans	Underground	Irrig.	S21 T11N R1E Cache	0.015 *
29-1800	5-29-73	Claudie Stevens, et ux	Underground	Irrig.Dom.Stock	S32 T12N R3W Box Elder	0.025 *
25-5997	5-31-73	A. Alton Hoffman	Underground	Irrig. Stock	S36 T13N R1W Cache	0.10 *
23-3402	5-31-73	Khalil V. Hansen	Underground	Dom.	S30 T13N R6E Rich	0.015 *
25-5998	6- 1-73	Dawayne Richman	Unnamed springs	Irrig.Dom.Stock	S29 T10N R1E Cache	0.5 **
25-5999	6- 4-73	Reece D. Nielsen	Nielsen Spring	Stock	S14 T10N R1E Cache	0.05 *
25-6000	6- 6-73	Glen Hobbs	Underground	Irrig.Dom.Stock	S14 T12N R1W Cache	0.10 *
25-6001	6- 8-73	Steve Kidman, et ux	Underground	Irrig.Dom.Stock	S29 T12N R1W Cache	0.015 *
25-6002	6- 8-73	David J. Gancheff	Trenton Reservoir	Irrig. Stock	S28 T14N R1W Cache	0.223
25-6003	6- 8-73	David J. Gancheff	McCoombs Hollow Str.	Irrig. Stock	S28 T14N R1W Cache	0.50 *
25-6005	6- 8-73	LDS Church - L. Jenkins	4 unnamed springs	Irrig. Dom.	S20 T11N R1W Cache	0.1 *
29-1802	6-13-73	Stuart A. Cornwall	Underground	Irrig. Stock	S 1 T10N R4W Box Elder	4.0
29-1803	6-15-73	Natalie Richardson	Unnamed spring	Irrig.Dom.Stock	S14 T12N R2W Box Elder	0.10 *
29-1804	6-13-73	Garland City Corp.	Underground	Irrig.	S35 T12N R3W Box Elder	0.5 *
25-6007	6-18-73	Darryl M. Larson, et ux	Underground	Irrig. Dom.	S20 T11N R1E Cache	0.015 *
29-1806	6-20-73	Dale Hendrickson, et ux	Underground	Irrig.Dom.Stock	S22 T10N R3W Box Elder	0.015 *

Applic Number	Date of Filing	Name	Source	Use	Location	Amount (cfs)
<u>STATE OF UTAH</u> (Continued)						
25-6008	6-20-73	Lyman Sparks	Underground	Irrig. Stock	S16 T11N R1W Cache	0.10 *
25-6009	6-21-73	John Chelstrom	Underground	Irrig.Dom.Stock	S 6 T10N R1E Cache	0.10 *
25-6010	6-21-73	Richard W. Waters	Underground	Dom. Stock	S13 T14N R1E Cache	0.015 *
29-1807	6-22-73	Leland B. Stone	Underground	Irrig.Dom.Stock	S23 T10N R2W Box Elder	0.015 *
29-1808	6-22-73	Leland B. Stone, et ux	Underground	Irrig.Dom.Stock	S23 T10N R2W Box Elder	0.015 *
25-6011	6-20-73	Jeremiah Dennis, et ux	Underground	Dom. Stock	S 2 T11N R1E Cache	0.10
29-1813	7- 2-73	Verle T. Waldron	Underground	Irrig.Dom.Stock	S 5 T11N R4W Box Elder	3.0
25-6012	7- 2-73	Dennis Fredrickson et ux	Underground	Dom.	S10 T 9N R1E Cache	0.015 *
29-1814	7- 3-73	Alphalus A. Johnson	Underground	Irrig. Dom.	S 3 T12N R2W Box Elder	0.015 *
29-1815	7- 3-73	Alphalus A. Johnson	Underground	Irrig. Dom.	S 3 T12N R2W Box Elder	0.015 *
25-6013	7-13-73	Thiokol, Logan Division	Underground	Irrig. comm. uses	S16 T12N R1E Cache	0.5 *
29-1816	7-13-73	Larry Jaussi, et ux	Unnamed drain	Irrig. Stock	S31 T10N R3W Box Elder	0.5 *
25-6014	7-17-73	Frank J. Fencil	Underground	Irrig. Dom.	S14 T11N R1E Cache	0.5
29-1817	7-18-73	Russell C. Capener	drain	Irrig.	S 2 T12N R3W Box Elder	2.0
25-6016	7-19-73	Paul B. Sorensen	Underground	Irrig.Dom.Stock	S 7 T11N R1W Cache	0.5
29-1818	7-17-73	Worth Jensen, et ux	Unnamed spring	Irrig.Dom.Stock	S23 T10N R2W Box Elder	0.10
29-1819	7-21-73	John A. Baxter	Surface & Undergrnd	Irrig. Stock	S23 T10N R3W Box Elder	2.0
25-6017	7-26-73	Don E. Spackman	Bear River	Irrig. Stock	S36 T14N R1W Cache	2.0
25-6018	7-27-73	Brent Summerhays	Underground	Irrig.Dom.Stock	S31 T12N R1E Cache	0.015 *
25-6019	7-17-73	Calvin Maughan, et ux	Underground	Irrig.Dom.Stock	S12 T12N R1W Cache	0.015 *
23-3403	7-24-73	G. Leslie Darrington	Mabel's Spring	Irrig. Dom.	S 5 T14N R5E Rich	0.03 *
29-1820	7-25-73	Boyd K. Gardner	Underground	Irrig. Stock	S 7 T11N R2W Box Elder	2.0
25-6020	6-23-73	David H. Kotter	Unnamed spring	Irrig.Dom.Stock	S 8 T11N R1W Cache	0.05
25-6040	8- 1-73	Gordell A. Brown	Underground	Irrig.Dom.Stock	S12 T10N R1W Cache	0.10 *
25-6041	8- 6-73	Eugenia D. Lee	Underground	Stock	S21 T10N R1E Cache	0.015
29-1822	8- 3-73	Winford M. Barrus	Underground	Irrig.Dom.Stock	S 5 T11N R2W Box Elder	0.015
25-6042	8-13-73	Joseph Mark Nielson	Underground	Irrig.Dom.Stock	S20 T13N R1E Cache	0.1

Applic Number	Date of Filing	Name	Source	Use	Location	Amount (cfs)
<u>STATE OF UTAH</u> (Continued)						
25-6043	8-19-73	Clark Fredrickson	Underground	Irrig. Dom.	S11 T 9N R1E Cache	0.015
21-1333	8-16-73	J. Paul Roylance	Underground	Dom. Stock	S33 T3N R10E Summit	0.10
25-6045	8-22-73	Howard Clair Peterson	Underground	Irrig.Dom.Stock	S28 T11N R1E Cache	0.027
25-6046	8-21-73	Lynn H. Davis	Unnamed spring	Stock	S14 T13N R1E Cache	0.015
25-6050	8-29-73	Stuart F. Hardman	Unnamed spring	Irrig.Dom.Stock	S17 T11N R1W Cache	0.1
25-6051	8-30-73	O. Claude Wennergren	Underground	Irrig.	S21 T12N R1E Cache	0.20
23-3404	9- 7-73	S. Bear L. Water Co-op	Underground	Dom.	S30 T13N R6E Rich	0.10
25-6052	9- 4-73	Bryan R. Spykerman	Underground	Irrig.Dom.Stock	S 4 T11N R1E Cache	0.015
25-6053	8-31-73	Arthur Mendini	Underground	Irrig.Dom.Stock	S24 T14N R1E Cache	3.0
29-1829	9-14-73	Robert Kay, et al	Underground	Irrig.Dom.Stock	S 2 T11N R3W Box Elder	0.015
23-3405	9-17-73	Robert R. Rex	Unnamed spring	Irrig.Dom.Stock	S 3 T11N R6E Rich	0.015
25-6060	9-14-73	Carroll Hodges	Unnamed drain	Irrig. Stock	S15 T13N R1E Cache	0.1
25-6063	9-18-73	Joseph E. Holmes	Underground	Irrig.Dom.Stock	S10 T 9N R1E Cache	0.015
29-1830	9-19-73	Richard & or Peggy Jensen	Bluerock Spring	Irrig.Dom.	S 3 T10N R2W Box Elder	0.015
25-6064	9-20-73	Stanley Olsen	Underground	Irrig.Dom.	S12 T11N R1W Cache	0.015
29-1831	9-21-73	Boyd and Layne Gardner	Drained spring	Irrig.	S 8 T11N R2W Box Elder	4.0
29-1832	9-26-73	Norman J. Youngman	Underground	Stock	S17 T14N R3W Box Elder	0.015
25-6065	9-25-73	Harold Stewart	Underground	Irrig. Dom.	S29 T11N R1E Cache	0.3
23-3406	10- 3-73	S. Francis & Sons Co.	Underground	Stock	S16 T 9N R8E Rich	0.033
29-1836	10- 1-73	Ford Service c/o Funk	Underground	Dom, Liquid Feed	S26 T12N R3W Box Elder	0.015
25-6066	9-28-73	W. Lee Reece	Underground	Irrig.Dom.Stock	S 1 T12N R1W Cache	0.1
25-6067	10-10-73	David H. Kotter	Underground	Irrig.Dom.Stock	S 8 T11N R1W Cache	0.015
25-6068	9-10-73	J. Howard Skabelund	Underground	Irrig. Stock	S29 T12N R1E Cache	0.10
25-6069	10-10-73	H. Skabelund & Bodrero	Underground	Irrig. Stock	S28 T12N R1E Cache	0.50
25-6070	10-10-73	John Chelstrom	Underground	Irrig.Dom.Stock	S 6 T10N R1E Cache	0.045
* Approved ** Rejected All other applications pending						

Applic Number	Date of Filing	Name	Source	Use	Location	Amount (cfs)
<u>STATE OF IDAHO</u>						
11-7036	5-16-73	Wynn Nelson	Unnamed spring	Dom.	S23 T12S R42E Bear Lake	0.04
11-7037	7-26-73	Keith H. Bennion	Ground Water	Irrig. Dom.	S32 T 9S R42E Caribou	0.10
11-7038	7-31-73	Ronald D. Wells	Ground Water	Dom.	S19 T 9S R42E Caribou	0.04
11-7039	8-13-73	Lorus &/or K.A. Skinner	Ground Water	Irrig. Dom.	S 5 T12S R43E Bear Lake	0.42
11-7040	8-27-73	Loran Dee Bassett	Ground Water	Dom.	S 9 T 9S R42E Caribou	0.02
11-7041	9-14-73	Joseph E. Evans	Ground Water	Irrig.	S14 T13S R46E Bear Lake	2.9
11-7042	9-25-73	Ray L. Widmer	Ground Water	Irrig.	S 3 T13S R46E Bear Lake	2.0 *
13-7038	4-20-73	Larrel G. Hobbs	Trib. to Cub River	Irrig.	S20 T16S R40E Franklin	1.0
13-7039	4-20-73	Larrel G. Hobbs	Ground Water	Irrig.	S18 T16S R40E Franklin	0.7
13-7040	4-25-73	Jerry Lee Jensen	Unnamed drain	Irrig.	S12 T16S R39E Franklin	1.0
13-7041	4-26-73	Earl &/or Anna Ward	Trib. Five Mile Cr.	Irrig.	S13 T15S R38E Franklin	1.8
13-7042	4-30-73	William A. Hawkes	Trib. to Bear River	Irrig. Storage	S 9 T15S R39E Franklin	1.0
13-7043	5-17-73	Raymond O. Sparrow	Trib. to Bear River	Irrig.	S31 T15S R39E Franklin	1.2 *
13-7044	5-14-73	Ben B. Johnson	Ground Water	Irrig.	S 4 T14S R39E Franklin	3.2
13-7045	5-22-73	S. Floyd Thompson	Trib. to Worm Cr.	Irrig.	S15 T16S R39E Franklin	0.05
13-7046	6-12-73	Grant &/or Ella Jones	Ground Water	Irrig.Dom.Stock	S16 T15S R39E Franklin	0.14
13-7048	6-21-73	Rolen V. Bastian	Bear River	Irrig.	S 8 T16S R39E Franklin	2.0
13-7049	6-22-73	Ben B. Johnson	Ground Water	Irrig.	S 4 T14S R39E Franklin	3.2
13-7050	7- 6-73	D.W. Clegg & Sons, Inc.	Ground Water	Irrig.	S 6 T11S R41E Caribou	3.0 *
13-7051	7-11-73	Don Carter	Ground Water	Stock	S35 T14S R39E Franklin	0.07
13-7052	7-11-73	Don Carter	Ground Water	Stock	S35 T14S R39E Franklin	0.07
13-7053	7-24-73	Alma L. Pond	Trib to Alder Cr.	Irrig.	S20 T11S R40E Caribou	0.60
13-7054	8- 3-73	Delbert L. Keller	Trib to Mink Cr.	Dom.	S31 T13S R41E Franklin	0.04
13-7055	8-14-73	Robert H. Barnes	Ground Water	Dom.	S 8 T15S R40E Franklin	0.02
13-7056	8-21-73	George I. Aston	Ground Water	Dom.	S19 T15S R39E Franklin	0.20
13-7057	8-22-73	Rufus R. Smith	Trib. to Bear River	Irrig.	S31 T11S R41E Franklin	3.0
13-7058	8-20-73	David E. Revoir, Jr.	Jim Gilbert Spring	Stock	S10 T10S R39E Caribou	0.05 *

Applic Number	Date of Filing	Name	Source	Use	Location	Amount (cfs)
<u>STATE OF IDAHO</u> (Continued)						
13-7059	8-28-73	Kenneth L. Hull	Ground Water	Dom.	S21 T16S R40E Franklin	0.04
13-7060	9-12-73	Ben B. Johnson	Wayland Hot Springs	Green houses use	S 8 T15S R39E Franklin	2.0
13-7061	9-24-73	Kent C. Porter	Ground Water	Dom.	S32 T15S R40E Franklin	0.04 *
13-7062	9-24-73	James D. McElfish	Ground Water	Swimming	S31 T14S R40E Franklin	0.04 *
13-7063	9-24-73	Richard Lemmon	Ground Water	Irrig.	S31 T15S R38E Franklin	1.0 *
13-7064	9-28-73	Wayne Andersen, et al	Trib to Bear River	Dom. Stock	S27 T11S R40E Caribou	0.20
13-7065	10- 5-73	Thomas A. Robinson	Ground Water	Irrig. Stock	S18 T15S R41E Franklin	0.05 *
13-7066	10-12-73	Thomas A. Robinson	Unnamed spring	Dom.	S19 T15S R41E Franklin	0.01 *
15-7014	4-18-73	Pleasant Vw. Sprinkler	Ground Water	Irrig.	S 2 T15S R35E Oneida	4.0
15-7015	4-24-73	Glen Price & D. Harris	Ground Water	Irrig.	S14 T16S R36E Oneida	3.0
15-7016	6-13-73	St. John Irrigating Co.	Little Malad River	Irrig. Storage	S35 T12S R34E Oneida	6.0
15-7017	7-12-73	Donald S. Vaughan	Ground Water	Irrig.	S27 T15S R36E Oneida	3.0
15-7018	8- 6-73	Dale & Arvella Evans	Ground Water	Irrig. Dom.	S 2 T13S R36E Oneida	0.39
15-7019	9-12-73	Verlin W. Moon	Ground Water	Irrig.	S26 T15S R36E Oneida	0.8
* Pending All other applications approved						