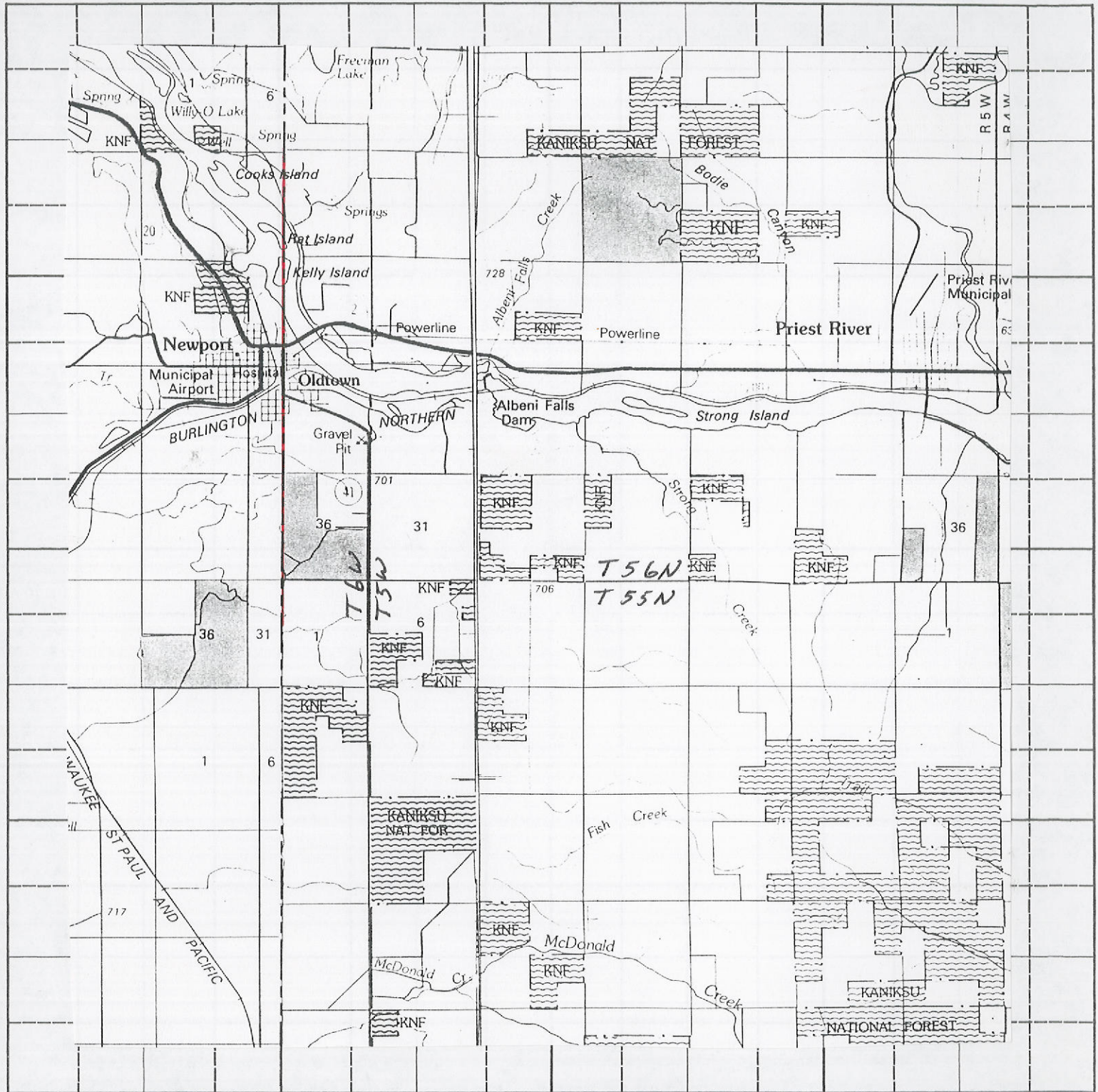


13. Map of proposed project: show clearly the proposed point of diversion, place of use, section number, township and range number.

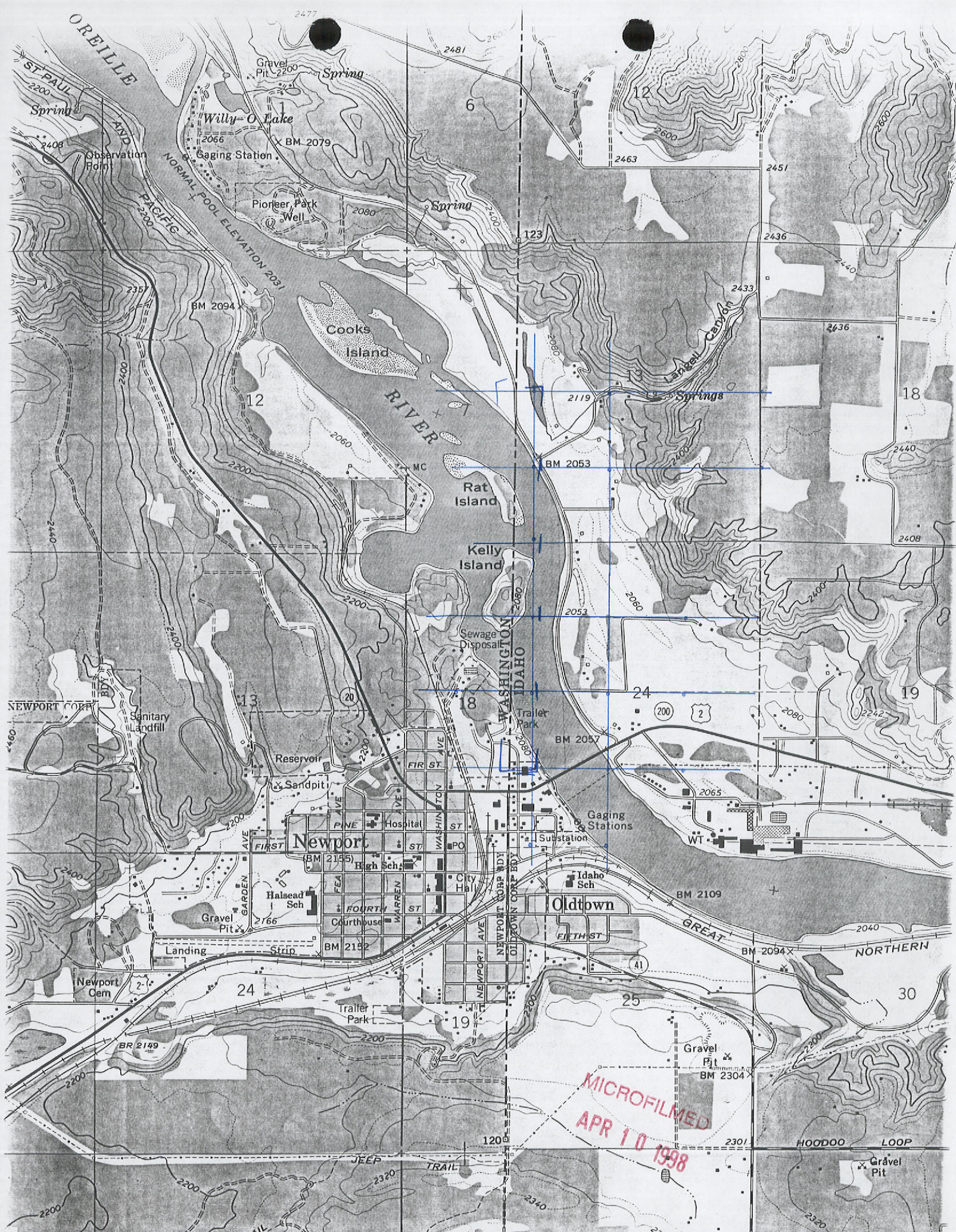


Scale: 2 inches equal 1 mile.

BE IT KNOWN that the undersigned hereby makes application for permit to appropriate the public waters of the State of Idaho as herein set forth.

MICROFILMED
APR 10 1998

William S. Platt
(Applicant)



T56N R5W S29
T56N R6W S13
T56N R6W S24

Ending
Stream
Reach

Beginning
Stream
Reach

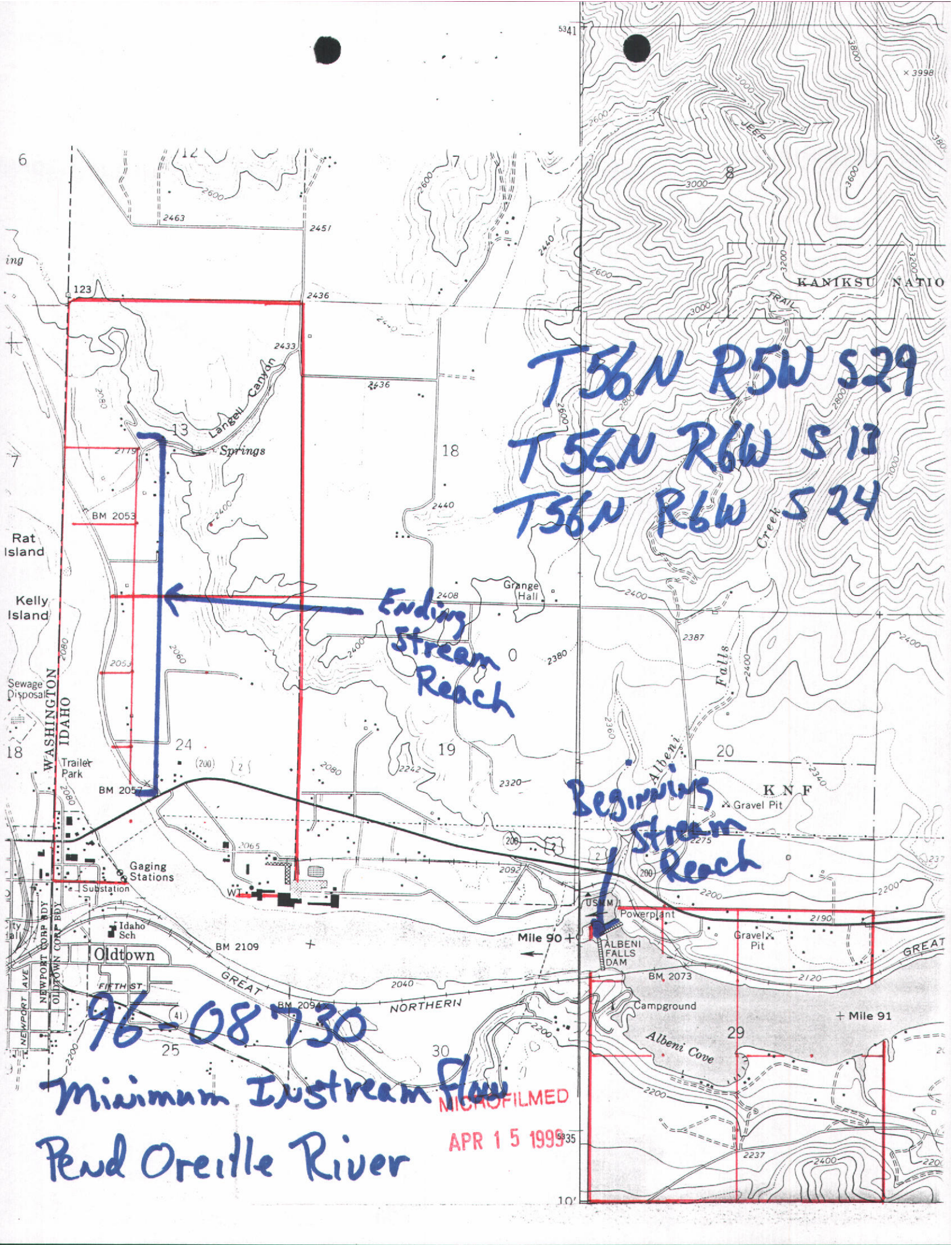
96-08730

Minimum Instream Flow

Pend Oreille River

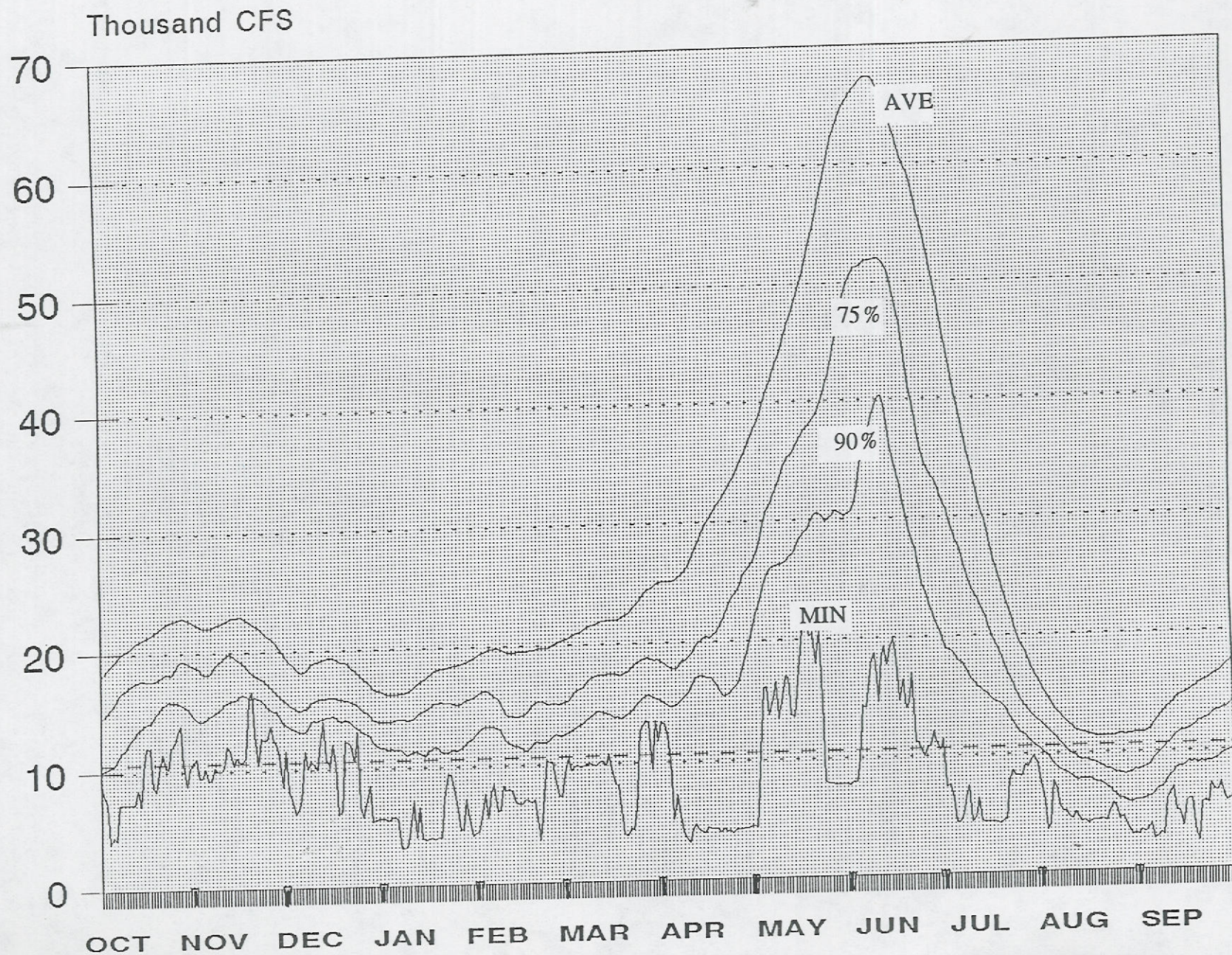
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APR 15 1999



PEND OREILLE RIVER AT NEWPORT, WA

SUMMARY HYDROGRAPH PERIOD OF RECORD 1953-90



APR 10 1998

MICROFILMED

State of Idaho
Department of Water Resources
Water Right License

WATER RIGHT NO. 96-08730

Priority: June 15, 1992 Minimum Stream Flow: 10655.00 CFS

This is to certify, that STATE OF IDAHO
IDAHO WATER RESOURCE BOARD
PO BOX 83720

BOISE ID 83720-0098 has complied with the terms and conditions
of the permit, issued pursuant to Application for Permit dated June 15, 1992; and
has submitted Proof of Beneficial Use on August 31, 1998. A minimum stream flow for:

PEND OREILLE RIVER tributary to COLUMBIA RIVER

has been established as follows:

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>MINIMUM STREAM FLOW</u>
MINIMUM INSTREAM FLOW	01/01 to 12/31	10655.00 CFS

MINIMUM STREAM FLOW REACH:

Beginning of Stream Flow Reach	NWNW , Sec. 29, Township 56N, Range 05W
End of Stream Flow Reach	NWSW , Sec. 13, Township 56N, Range 06W
	SWSW , Sec. 13, Township 56N, Range 06W
	NWNW , Sec. 24, Township 56N, Range 06W
	SWNW , Sec. 24, Township 56N, Range 06W
	NWSW , Sec. 24, Township 56N, Range 06W
	BONNER County

CONDITIONS OF APPROVAL AND REMARKS

1. Use of water under this right shall be non-consumptive.
2. Establishment of a minimum flow on the Pend Oreille River in the requested reach shall serve to protect water released from Albeni Falls Dam as it flows through the requested reach at rates up to the established flow, but shall not directly or indirectly cause any change in the operation of Albeni Falls Dam.
3. The Director retains jurisdiction, as described below, to review and amend any and all parameters of this right. The Board, upon receiving a request, or upon its own initiative, may petition the Director for an amendment to the right. The petition must set forth any significant change in circumstances and evidence of the public interest supporting the proposed amendment. The Director will notify the general public and specific persons or known interested parties of the proposed change, and conduct a hearing for the purpose of determining whether the right should be amended in the public interest. The burden of proof at the hearing shall be upon the persons or parties seeking the amendment to establish that the amendment of the right would be in the public interest.

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APR 15 1999

State of Idaho
Department of Water Resources
Water Right License

WATER RIGHT NO. 96-08730

CONDITIONS OF APPROVAL AND REMARKS

4. Upon the future finding and order of the Director that gaging stations are required to maintain the approved minimum stream flow, the right holder shall permanently install and maintain gaging stations as specified by the department.
5. This minimum stream flow begins at Albeni Falls Dam in the NWNW, S29, T56N, R5W and ends 2.4 miles downstream at the state line on the west side of Sections 13 and 24, T56N, R6W.
6. This minimum stream flow is for the protection of fish and wildlife habitat, aquatic life and recreational values.

This license is issued pursuant to the provisions of Section 42-219, Idaho Code. The water right confirmed by this license is subject to all prior water rights and shall be administered in accordance with Idaho law and applicable rules of the Department of Water Resources. Signed and sealed this 19th day of FEBRUARY, 1999.

Acting for

KARL J. DREHER, Director

MICROFILMED

APR 15 1999

RECEIVED

AUG 31 1998

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

Department of Water Resources

PROOF OF BENEFICIAL USE

The Idaho Department of Water Resources considers this form a statement that the permit holder(s) has/have completed all development that will occur under this permit and that water has been applied according to the provisions of the permit for the beneficial use(s) described below. This form must be accompanied by a license examination fee, when necessary, or be accompanied by a completed field examination report prepared by a certified water right examiner who has been appointed by the department.

1. Permit No. 96-08730 Telephone No. 208-327-7900
2. Name(s) of Permit Holder(s): IDAHO WATER RESOURCE BOARD
3. Mailing Address: P.O. Box 83720, Boise ID 83720-0098
4. Source of Water: Pend Oreille River If **GROUNDWATER** (well), Date Drilled: mo. _____ / yr. _____
 - a. Well Driller: _____ Drilling Permit Number: _____ - _____ - _____
 - b. **OPTIONAL:**
Pump Horsepower: _____ Pressure (psi): _____ Dynamic pumping level (ft): _____
5. Use(s) (as authorized by the water right permit):
Domestic (No. of households): _____ Stockwater (No. and type of stock): _____
Irrigation (No. of acres): _____ Other: Minimum Instream Flow
6. Total rate of diversion and/or volume for which proof is submitted: 10,655 cfs OR _____ acre feet
7. Measuring Device Requirement: (refer to the approval conditions on your permit and respond accordingly)
(This question is not optional. Please check either yes or no. Proofs returned not checked accordingly, will be considered incomplete)

Measuring Device:	Is a measuring device required?	Yes _____	or	No <u>X</u>
	Has the measuring device been installed?	Yes _____	or	No <u>X</u>
Flow Measurement Port:	Is a flow measurement port required?	Yes _____	or	No <u>X</u>
	Has the measurement port been installed?	Yes _____	or	No <u>X</u>
8. Fee Enclosed: \$ N/A (See Fee Schedule on back of the instructions for filing proof of beneficial use)
9. Person to contact to accompany the Department representative during field examination of the water system.
Name: _____ Telephone Number: _____
Address: _____
10. The information given on this form is my true statement of the extent to which the above numbered permit has been developed and I relinquish any undeveloped portion of the permit to the State of Idaho.

Signature of permit holder: _____

(include your title, if on behalf of company or organization)

Date: 8/28/98

OCT 28 1998

State of Idaho
Department of Water Resources
Permit To Appropriate Water

NO. 96-08730

Proposed Priority: June 15, 1992

Maximum Diversion Rate:

10655.00 CFS

This is to certify, that STATE OF IDAHO

IDAHO WATER RESOURCE BOARD

STATEHOUSE

BOISE ID 83720

has applied for a permit to appropriate water from:

PEND OREILLE RIVER

tributary of COLUMBIA RIVER

and a permit is APPROVED for development of water as follows:

BENEFICIAL USE

PERIOD OF USE

RATE OF DIVERSION

MINIMUM INSTREAM FLOW

01/01 to 12/31

10655.00 CFS

LOCATION OF POINT(S) OF DIVERSION:

Beginning of Stream Flow Reach

NWNW , Sec. 29, Township 56N, Range 05W

End of Stream Flow Reach

NWSW , Sec. 13, Township 56N, Range 06W

End of Stream Flow Reach

SWSW , Sec. 13, Township 56N, Range 06W

End of Stream Flow Reach

NWNW , Sec. 24, Township 56N, Range 06W

End of Stream Flow Reach

SWNW , Sec. 24, Township 56N, Range 06W

End of Stream Flow Reach

NWSW , Sec. 24, Township 56N, Range 06W

BONNER County

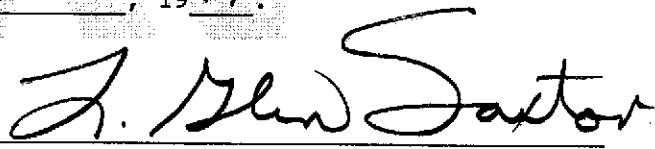
PLACE OF USE: See Remarks

CONDITIONS OF APPROVAL AND REMARKS

1. See Final Order for conditions and limitations for use of water under this approval.

This permit is issued pursuant to the provisions of Section 42-204, Idaho Code.
Witness the signature of the Director, affixed at Boise, this

11th day of December, 1997.


for Karl J. Dreher, Director

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APR 10 1998

**BEFORE THE DEPARTMENT OF WATER RESOURCES
OF THE
STATE OF IDAHO**

IN THE MATTER OF APPLICATION FOR)
PERMIT NO. 96-08730 IN THE NAME)
THE IDAHO WATER RESOURCE BOARD)
_____)

FINAL ORDER

On June 15, 1992, the Idaho Water Resource Board (Board) filed the above captioned application for permit with the Department of Water Resources (department) seeking to establish a minimum stream flow on the Pend Oreille River. The application was filed pursuant to Chapter 15, Title 42, Idaho Code.

The department provided notice of the application describing the proposed appropriation and setting the time and place for hearing on the application. Notice was published on June 19 and 26, 1997 in the Bonner County Daily Bee, Sandpoint, Idaho, the Shoshone County News Press, Kellogg, Idaho, and on June 18 and 25, 1997 in the Priest River Times, Priest River, Idaho and in the St. Maries Gazette Record, St. Maries, Idaho. Statewide notice of the application was also published on June 19 and 26, 1997 in the Lewiston Morning Tribune, Lewiston, Idaho, The Times News, Twin Falls, Idaho, The Post Register, Idaho Falls, Idaho and in the Idaho Statesman, Boise, Idaho.

On July 16 and 17, 1997, the department conducted public hearings in Sandpoint, Idaho and St. Maries, Idaho for the purpose of eliciting testimony regarding the application.

Parties appearing in a formal capacity at the hearings included John Beal for the Idaho Water Resource Board, Cindy Robertson for the Idaho Department of Fish and Game, Bob Schloss for the Corps of Engineers, Bob Dunnagan for Trout Unlimited, Marti Bridges for Idaho Rivers United and Steven A. Fry for Washington Water Power. Public witnesses who testified in the matter included John Bentley and Buell Hollister.

On August 28, 1997, the hearing officer for the department issued a Recommended Order in connection with the above captioned matter. None of the parties filed a petition for reconsideration, briefs or exceptions in connection with the Recommended Order. Based upon his understanding of the law and the facts in this matter, the Director makes the following Findings of Fact, Conclusions of Law and Final Order:

FINDINGS OF FACT:

1. Application for Permit No. 96-08730 seeks a minimum flow of 10,655 cfs of water year-round within the Pend Oreille River in

MICROFILMED

APR 10 1998

a 2.4 mile reach beginning at Albeni Falls Dam in the NW1/4NW1/4 Section 29, T56N, R5W, B.M. and ending at the state line on the west side of Sections 13 and 24, T56N, R6W, B.M. The purpose of the application is to protect fish and wildlife habitat, aquatic life and recreational values.

2. Exhibits offered and accepted as a part of the record include the following:

a. Applicant's Exhibit 1 - Water right information for the Pend Oreille River, flow duration curves, and a summary hydrograph for the period of record from 1953 to 1990.

b. Applicant's Exhibit 2 - Listing of Pend Oreille River Water Rights.

c. IDFG Exhibit 1 - Table 1 - Instream Flow Regimens for Fish, Wildlife, Recreation and Related Environmental Resources.

d. IDFG Exhibit 2 - Pend Oreille River Management information.

3. The flow of the Pend Oreille River as measured at Newport, Washington at the downstream end of the requested minimum streamflow reach equals or exceeds the minimum flow requested more than 90 percent of the time.

4. All rights acquired under application No. 96-08730 are for instream non-consumptive use and are subject to all vested water rights, permits or applications for permit having a date of priority earlier than June 15, 1992.

5. The parties supported the minimum stream flow application. There was no opposition to the approval of the application.

CONCLUSIONS OF LAW:

1. Chapter 15, Title 42, Idaho Code, provides that stream flow preservation for the protection of fish and wildlife habitat, aquatic life, recreation, aesthetic beauty, navigation and water quality, when made pursuant to this statute, is in the public interest and is declared to be a beneficial use of such water.

2. The proposed minimum stream flow will not interfere with any vested water right, permit, or application for permit having a priority date earlier than June 15, 1992.

3. The flow requested in the application is the minimum flow required to preserve the existing unique characteristics of the stream for the public benefit, and is not the ideal or most desirable flow which could be utilized for those purposes.

4. The proposed minimum stream flow is in the public, as opposed to private, interest.

5. The minimum stream flow proposed by the application is necessary to protect fish and wildlife habitat, aquatic life and recreational values.

6. The proposed minimum stream flow as approved in this final order is generally capable of being maintained.

7. The department should approve the application with certain conditions and limitations.

ORDER:

IT IS, THEREFORE, HEREBY ORDERED That Application for Permit No. 96-08730 in the name of the Idaho Water Resource Board is **APPROVED** subject to the following conditions and limitations as follows:

1. Use of water under the permit is subject to all prior water rights.

2. Use of water under the permit shall be non-consumptive.

3. Establishment of a minimum flow on the Pend Oreille River in the requested reach shall serve to protect water released through Albeni Falls Dam as it flows through the requested reach at rates up to the established flow, but shall not directly or indirectly cause any change in the operation of Albeni Falls Dam.

4. Upon the future finding and order of the Director that gaging stations are required to maintain the approved minimum stream flow, the right holder shall permanently install and maintain gaging stations as specified by the department.

5. The Director retains jurisdiction, as described below, to review and amend any and all parameters of this right. The Board, upon receiving a request, or upon its own initiative, may petition the Director for an amendment to the right. The petition must set forth any significant change in circumstances and evidence of the public interest supporting the proposed amendment. The Director will notify the general public and specific persons or known interested parties of the proposed change, and conduct a hearing for the purpose of determining whether the right should be amended in the public interest. The burden of proof at the hearing shall be upon the persons or parties seeking the amendment to establish that the amendment of the right would be in the public interest.

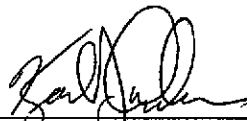
6. The application hereby approved by the Director shall be submitted to the Idaho Legislature by the fifth day of the next regular legislative session and the Director's approval shall not become finally effective until approved by the legislature pursuant

to provisions of Section 42-1503, Idaho Code.

7. Proof of instream beneficial use of the minimum flow appropriated shall be submitted in a manner approved by the Department on or before **October 1, 2002**.

8. This minimum stream flow is for the protection of fish and wildlife habitat, aquatic life and recreational values.

Dated this 11th day of December, 1997.



KARL J. DREHER
Director

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APR 10 1998

CERTIFICATE OF SERVICE

I DO HEREBY CERTIFY that on the 12th day of December, 1997, the above and foregoing document was served upon the following, via certified mail, by placing a copy of the same in the United States Mail, postage prepaid and properly addressed to the following:

HAND DELIVERED

JOHN BEAL
IDWR
PO BOX 83720
BOISE ID 83720-0098

BOB SCHLOSS
CORPS OF ENGINEERS
ALBANY FALLS DAM PROJECT
2376 E HWY 2
OLDTOWN ID 83822

CERTIFIED MAIL

CINDY ROBERTSON
DEPT OF FISH AND GAME
PO BOX 25
BOISE ID 83707

BOB DUNNAGAN
TROUT UNLIMITED
361 EVERGREEN RD
SANDPOINT ID 83862

MARTI BRIDGES
IDAHO RIVERS UNITED
PO BOX 633
BOISE ID 83701

STEVEN A FRY
WASHINGTON WATER POWER
PO BOX 3727
SPOKANE WA 99220-3727



JULIE L. YARBROUGH

Senior Secretary, Water Allocation Bureau

BEFORE THE DEPARTMENT OF WATER RESOURCES
OF THE
STATE OF IDAHO

IN THE MATTER OF APPLICATION FOR)
PERMIT NO. 96-08730 IN THE NAME)
THE IDAHO WATER RESOURCE BOARD) **RECOMMENDED ORDER**
_____)

On June 15, 1992, the Idaho Water Resource Board (Board) filed the above captioned application for permit with the Department of Water Resources (department) seeking to establish a minimum stream flow on the Pend Oreille River. The application was filed pursuant to Chapter 15, Title 42, Idaho Code.

The department provided notice of the application describing the proposed appropriation and setting the time and place for hearing on the application. Notice was published on June 19 and 26, 1997 in the Bonner County Daily Bee, Sandpoint, Idaho, the Shoshone County News Press, Kellogg, Idaho, and on June 18 and 25, 1997 in the Priest River Times, Priest River, Idaho and in the St. Maries Gazette Record, St. Maries, Idaho. Statewide notice of the application was also published on June 19 and 26, 1997 in the Lewiston Morning Tribune, Lewiston, Idaho, The Times News, Twin Falls, Idaho, The Post Register, Idaho Falls, Idaho and in the Idaho Statesman, Boise, Idaho.

On July 16 and 17, 1997, the department conducted public hearings in Sandpoint, Idaho and St. Maries, Idaho for the purpose of eliciting testimony regarding the application.

Parties appearing in a formal capacity at the hearings included John Beal for the Idaho Water Resource Board, Cindy Robertson for the Idaho Department of Fish and Game, Bob Schloss for the Corps of Engineers, Bob Dunnagan for Trout Unlimited and Steven A. Fry for Washington Water Power. Public witnesses who testified in the matter included John Bentley and Buell Hollister.

Based upon his understanding of the law and the facts in this matter, the hearing officer recommends the following Findings of Fact, Conclusions of Law and Order:

FINDINGS OF FACT:

1. Application for Permit No. 96-08730 seeks a minimum flow of 10,655 cfs of water year-round within the Pend Oreille River in a 2.4 mile reach beginning at Albeni Falls Dam in the NW1/4NW1/4 Section 29, T56N, R5W, B.M. and ending at the state line on the west side of Sections 13 and 24, T56N, R6W, B.M. The purpose of the application is to protect fish and wildlife habitat, aquatic life and recreational values.

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APR 10 1998

2. Exhibits offered and accepted as a part of the record include the following:

a. Applicant's Exhibit 1 - Water right information for the Pend Oreille River, flow duration curves, and a summary hydrograph for the period of record from 1953 to 1990.

b. Applicant's Exhibit 2 - Listing of Pend Oreille River Water Rights.

c. IDFG Exhibit 1 - Table 1 - Instream Flow Regimens for Fish, Wildlife, Recreation and Related Environmental Resources.

d. IDFG Exhibit 2 - Pend Oreille River Management information.

3. The flow of the Pend Oreille River as measured at Newport, Washington at the downstream end of the requested minimum streamflow reach equals or exceeds the minimum flow requested more than 90 percent of the time.

4. All rights acquired under application No. 96-08730 are for instream non-consumptive use and are subject to all vested water rights, permits or applications for permit having a date of priority earlier than June 15, 1992.

5. The parties supported the minimum stream flow application. There was no opposition to the approval of the application.

CONCLUSIONS OF LAW:

1. Chapter 15, Title 42, Idaho Code, provides that stream flow preservation for the protection of fish and wildlife habitat, aquatic life, recreation, aesthetic beauty, navigation and water quality, when made pursuant to this statute, is in the public interest and is declared to be a beneficial use of such water.

2. The proposed minimum stream flow will not interfere with any vested water right, permit, or application for permit having a priority date earlier than June 15, 1992.

3. The flow requested in the application is the minimum flow required to preserve the existing unique characteristics of the stream for the public benefit, and is not the ideal or most desirable flow which could be utilized for those purposes.

4. The proposed minimum stream flow is in the public, as opposed to private, interest.

5. The minimum stream flow proposed by the application is necessary to protect fish and wildlife habitat, aquatic life and recreational values.

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APR 10 1998

6. The proposed minimum stream flow as approved in this recommended order is generally capable of being maintained.

7. The department should approve the application with certain conditions and limitations.

ORDER:

IT IS, THEREFORE, HEREBY ORDERED That Application for Permit No. 96-08730 in the name of the Idaho Water Resource Board is **APPROVED** subject to the following conditions and limitations as follows:

1. Use of water under the permit is subject to all prior water rights.

2. Use of water under the permit shall be non-consumptive.

3. Establishment of a minimum flow on the Pend Oreille River in the requested reach shall serve to protect water released from Albeni Falls Dam as it flows through the requested reach at rates up to the established flow, but shall not directly or indirectly cause any change in the operation of Albeni Falls Dam.

4. Upon the future finding and order of the Director that gaging stations are required to maintain the approved minimum stream flow, the right holder shall permanently install and maintain gaging stations as specified by the department.

5. The Director retains jurisdiction, as described below, to review and amend any and all parameters of this right. The Board, upon receiving a request, or upon its own initiative, may petition the Director for an amendment to the right. The petition must set forth any significant change in circumstances and evidence of the public interest supporting the proposed amendment. The Director will notify the general public and specific persons or known interested parties of the proposed change, and conduct a hearing for the purpose of determining whether the right should be amended in the public interest. The burden of proof at the hearing shall be upon the persons or parties seeking the amendment to establish that the amendment of the right would be in the public interest.

6. The application hereby approved by the Director shall be submitted to the Idaho Legislature by the fifth day of the next regular legislative session and the Director's approval shall not become finally effective until approved by the legislature pursuant to provisions of Section 42-1503, Idaho Code.

7. Proof of instream beneficial use of the minimum flow appropriated shall be submitted in a manner approved by the Department on or before the date in the Final Order issued by the Director.

8. This minimum stream flow is for the protection of fish and wildlife habitat, aquatic life and recreational values.

Dated this 27th day of August, 1997.

L. Glen Saxton
L. GLEN SAXTON
Hearing Officer

CERTIFICATE OF MAILING

I HEREBY CERTIFY that on the 28th day of August, 1997, a true and correct copy of the foregoing **RECOMMENDED ORDER** was forwarded, by regular U.S. Mail, to the parties listed:

John Beal
IDWR
PO Box 83720
Boise ID 83720-0098

Cindy Robertson
Dept of Fish and Game
PO Box 25
Boise ID 83707

Marti Bridges
Idaho Rivers United
PO Box 633
Boise ID 83701

Bob Schloss
Corps of Engineers
Albany Falls Dam Project
2376 E HWY 2
Oldtown ID 83822

Bob Dunnagan
Trout Unlimited
361 Evergreen Rd
Sandpoint ID 83862

Steven A Fry
Washington Water Power
PO Box 3727
Spokane WA 99220-3727


JULIE L. YARBROUGH
Senior Secretary, Water Allocation Bureau

RECEIVED
JUN 15 1992
Department of Water Resources

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
APPLICATION FOR PERMIT

Ident. No. 96-8730

To appropriate the public waters of the State of Idaho

1. Name of applicant Idaho Water Resource Board Phone 327-7910
Post office address Statehouse, Boise, ID 83720
2. Source of water supply Pend Oreille River which is a tributary of Columbia River
Instream flow from Albeni Falls Dam in
3. Location of point of diversion is 1/4 of NW 1/4 of NW 1/4, Govt. Lot
Sec. 29 Township 56N Range 05W B.M. Bonner County; additional
points of diversion if any: downstream to the State line on the west side of Sections 13
and 24, T56N, R6W, B.M.
4. Water will be used for the following purposes:
Amount 10,655 CFS for instream purposes from Jan 1 to Dec 31 (both dates inclusive)
(cfs or acre-feet per annum)
Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
(cfs or acre-feet per annum)
Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
(cfs or acre-feet per annum)
Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
(cfs or acre-feet per annum)
5. Total quantity to be appropriated is (a) 10,655 cubic feet per second and/or (b) _____ acre feet per annum
6. Proposed diverting works:
 - a. Description of ditches, flumes, pumps, headgates, etc. _____
None
 - b. Height of storage dam _____ feet; active reservoir capacity _____ acre-feet; total
reservoir capacity _____ acre-feet; period of year when water will be diverted to storage:
_____ to _____ inclusive.
 - c. Proposed well diameter is _____ inches; proposed depth of well is _____ feet.
 - d. Is ground water with a temperature of greater than 90°F being sought? _____
7. Time required for the completion of the works and application of the water to the proposed beneficial use is
5 years (minimum 1 year).

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8. Description of proposed uses (if irrigation only, go to item 9):

- Hydropower; show total feet of head and proposed capacity in KW. _____
- Stockwatering; list number and kind of livestock. _____
- Municipal; show name of municipality. _____
- Domestic; show number of households. _____
- Other; describe fully. A minimum stream flow for the protection of fish and wildlife habitat, aquatic life, and recreational values.

9. Description of place of use:

- If water is for irrigation, indicate acreage in each subdivision in the tabulation below.
- If water is used for other purposes, place a symbol of the use (example: *D* for Domestic) in the corresponding place of use below. See instructions for standard symbols.

TWP	RANGE	SEC.	NE¼				NW¼				SW¼				SE¼				TOTALS
			NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	

Total number of acres to be irrigated _____

10. Describe any other water rights used for the same purposes as described above. _____

None

11. a. Who owns the property at the point of diversion? _____

b. Who owns the land to be irrigated or place of use? _____

c. If the property is owned by a person other than the applicant, describe the arrangement enabling the applicant to make this filing. _____

12. Remarks: The affected reach is approximately 2.4 miles long.

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APR 10 1968

ATTACHMENT TO APPLICATION FOR PERMIT
TO APPROPRIATE A MINIMUM STREAM FLOW

14. Provide evidence that the appropriation will not interfere with any vested water right, permit, or water right application of earlier date of priority.

The appropriation is junior to rights, permits or applications with earlier
dates of priority.

15. Provide evidence to show that the appropriation would be in the public interest as opposed to private interest.

The appropriation will be held by the Water Resource Board rather than a
private entity. The appropriated water will preserve river values for
the benefit and enjoyment of all citizens of the state.

16. Provide evidence or justification that the appropriation is necessary for the purposes shown in Item 4.

The appropriation is for 40% of the mean annual flow through the reach as
measured at the USGS gage at Newport, Washington. The 40% request is based
on the Montana Method, and will provide a "good" flow for summertime needs
and an "outstanding" flow for wintertime needs. This flow approximates the
minimum flow necessary for fish and wildlife habitat, aquatic life, and
recreational values.

17. Provide evidence that the minimum flow or lake level is minimum and not the ideal or most desirable flow or lake level.

The Montana Method is based on field studies of stream conditions at
varying flow rates. The optimum flow for fish, wildlife, recreation, and
related environmental resources ranges from 60% to 100% of the mean
annual flow.

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APR 10 1998

18. Provide evidence that the flow or lake level requested is capable of being maintained as evidenced by records of stream flows and water levels.

The requested flow is equaled or exceeded approximately 91% of the time
based on daily flow records for a USGS gage at Newport, Washington for
the period 1953-90.

19. Describe the location of existing gaging stations that can be used in the administration of this appropriation.

The USGS gage at Newport, Washington is located at the Idaho-Washington
border just downstream of the instream flow reach.

20. Do you intend to install additional gaging stations? Describe the location.

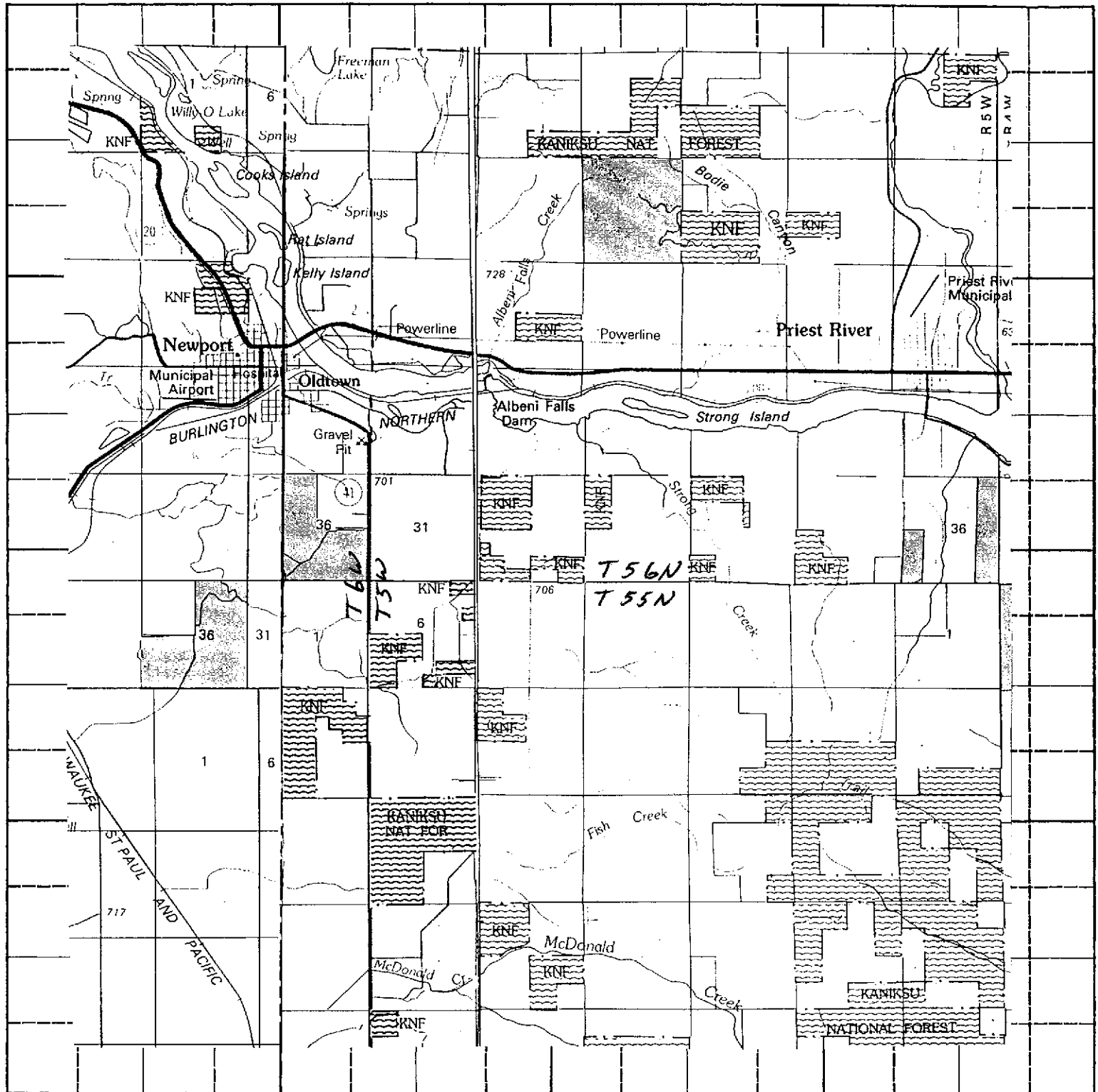
No

21. List any additional remarks related to this minimum stream flow application.

Following consultation with the Division of Environmental Quality, the
Department of Fish and Game, and Department of Parks and Recreation, the
the Water Resource Board may amend this application to more accurately
reflect the necessary minimum flow based on new data provided by the
above or other agencies.

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APR 10 1998

13. Map of proposed project: show clearly the proposed point of diversion, place of use, section number, township and range number.



Scale: 2 inches equal 1 mile.

BE IT KNOWN that the undersigned hereby makes application for permit to appropriate the public waters of the State of Idaho as herein set forth.

MICROFILM
 APR 10 1938
 William S. Clark
 (Applicant)

Received by DB Date 6-15-92 Time 11:45 Preliminary check by _____
Fee \$ _____ Received by _____ # _____ Date _____
Publication prepared by _____ Date _____ Published in _____
Publication approved _____ Date _____

ACTION OF THE DIRECTOR, DEPARTMENT OF WATER RESOURCES

This is to certify that I have examined Application for Permit to appropriate the public waters of the State of Idaho No. _____, and said application is hereby _____.

1. Approval of said application is subject to the following limitations and conditions:

- a. SUBJECT TO ALL PRIOR WATER RIGHTS.
- b. Proof of construction of works and application of water to beneficial use shall be submitted on or before _____, 19 ____.
- c. The rate of diversion, if water is to be used for irrigation under this permit, when combined with all other water rights for the same land shall not exceed 0.02 cubic feet per second for each acre of land.
- d. The water right acquired under this permit if for hydropower purposes shall be junior and subordinate to all rights to the use of water, other than hydropower, within the State of Idaho that are initiated later in time than the priority of this permit and shall not give rise to any right or claim against any future rights to the use of water, other than hydropower, within the State of Idaho initiated later in time than the priority of this permit.
- e. Other:

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PEND OREILLE RIVER AT NEWPORT, WA

(1953-90)

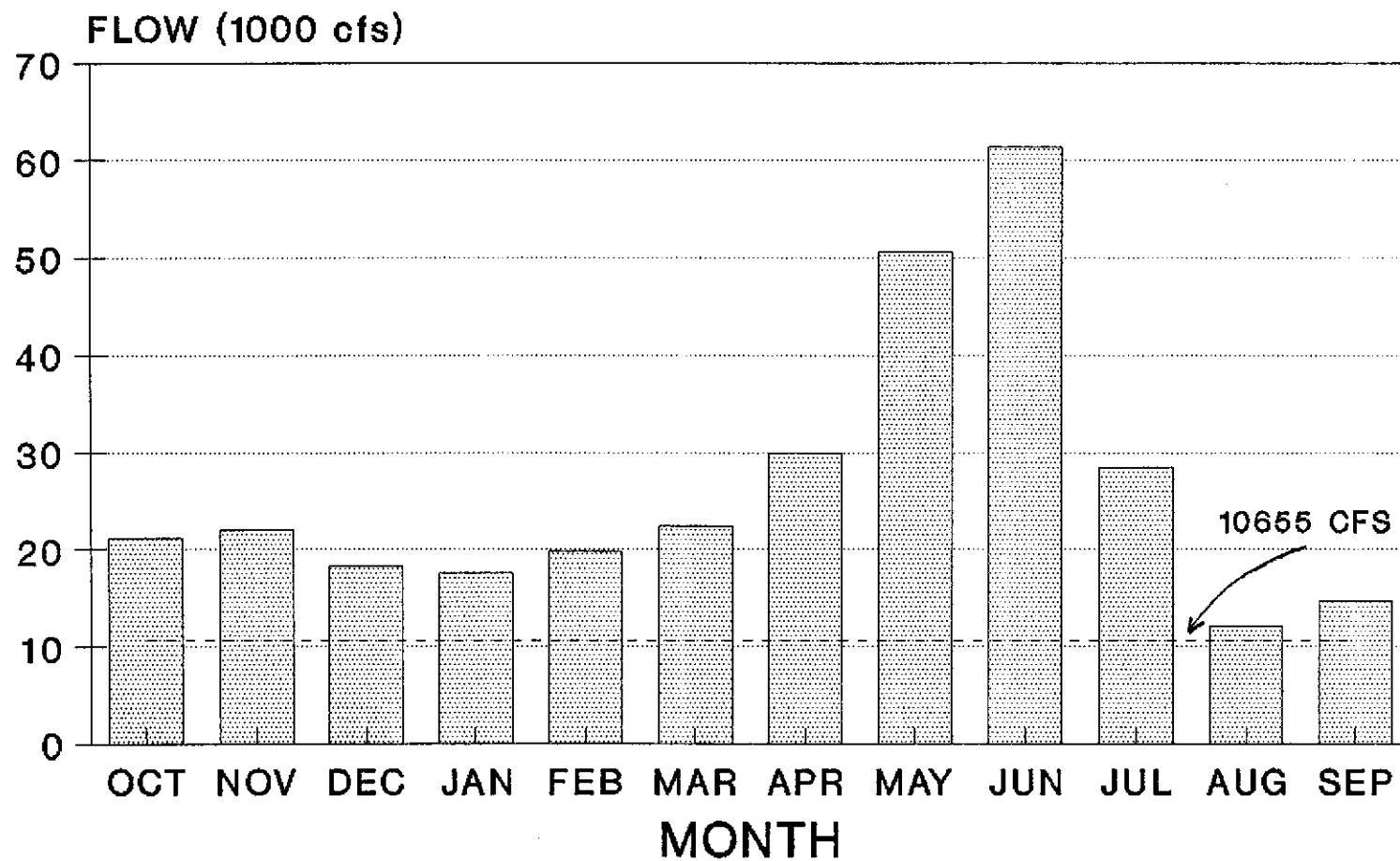
12395500

FLOW DURATION TABLE FOR STATION 12395500

FLOW	PERCENT = / +	FLOW	PERCENT = / +	FLOW	PERCENT = / +	FLOW	PERCENT = / +	FLOW	PERCENT = / +	FLOW	PERCENT = / +
47000.	12.49	46000.	12.88	45000.	13.28	44000.	13.70	43000.	14.23	42000.	14.68
41000.	15.32	40000.	15.98	39000.	16.35	38000.	16.77	37000.	17.49	36000.	18.43
35000.	19.20	34000.	19.86	33000.	20.69	32000.	21.66	31000.	22.81	30000.	23.89
29000.	25.34	28000.	27.41	27000.	29.39	26000.	31.85	25000.	35.54	24000.	39.01
23000.	41.90	22000.	45.22	21000.	49.73	20000.	53.60	19000.	58.08	18000.	62.43
17500.	64.63	17000.	67.17	16500.	69.67	16000.	72.13	15500.	74.62	15000.	76.70
14500.	78.85	14000.	80.88	13500.	82.93	13000.	84.95	12500.	86.73	12000.	88.29
11500.	89.43	11000.	90.58	10500.	91.99	10000.	93.07	9500.	93.88	9000.	94.83
8500.	95.57	8000.	96.56	7500.	97.12	7000.	97.73	6500.	98.14	6000.	98.50
5500.	98.86	5000.	99.07	4500.	99.26	4000.	99.71	3500.	99.88	3000.	99.95
2900.	99.97	2800.	99.99	2700.	99.99	2600.	99.99	2500.	99.99	2400.	100.00
2300.	100.00	2200.	100.00	2100.	100.00	2000.	100.00	1900.	100.00	1800.	100.00
1700.	100.00	1600.	100.00	1500.	100.00	1400.	100.00	1300.	100.00	1200.	100.00
1100.	100.00	1000.	100.00								

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APR 10 1998

PEND OREILLE RIVER AT NEWPORT, WA

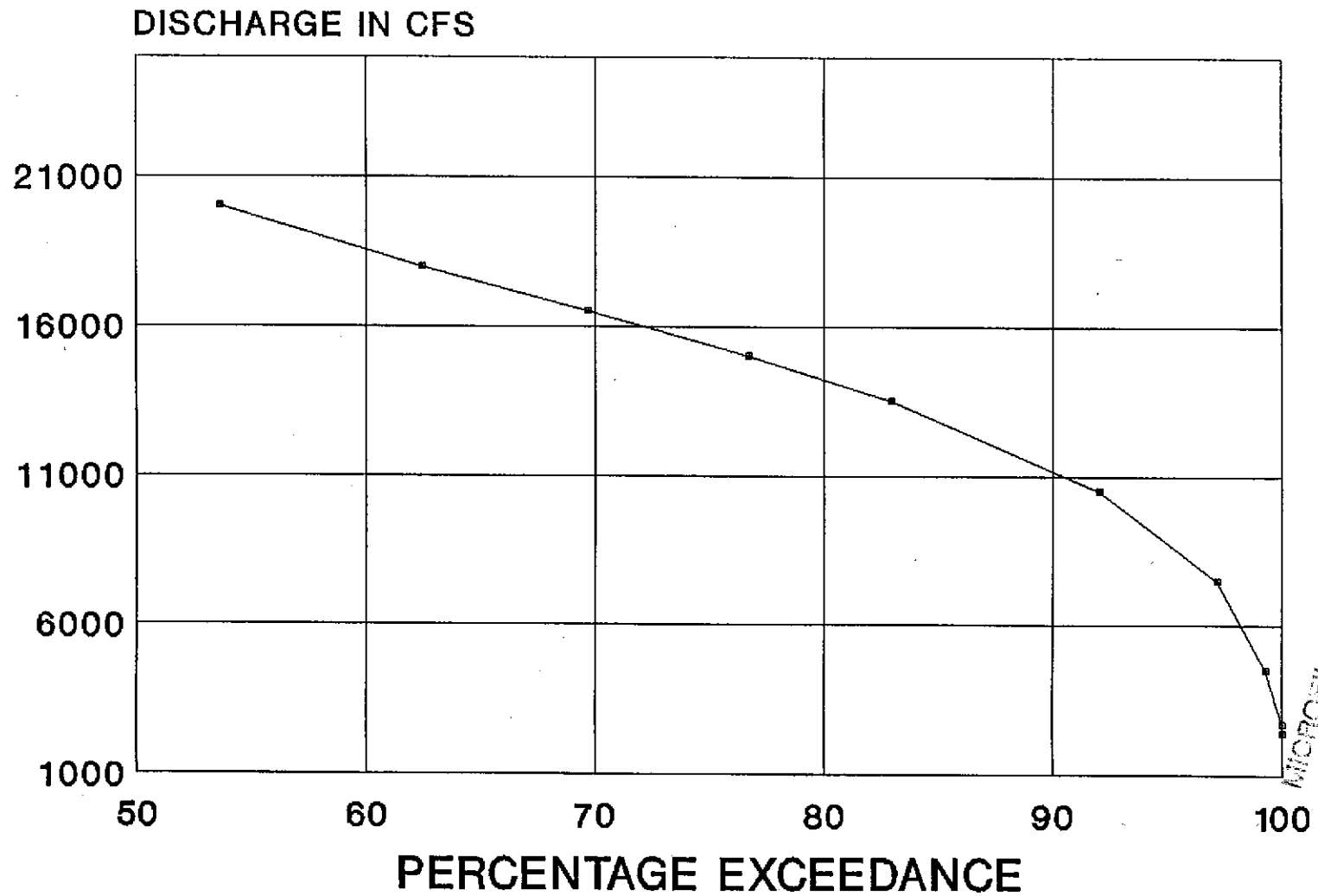


█ Average Monthly Flow ---- Instream Flow

Average Annual Flow = 26,638 CFS

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FLOW DURATION CURVE PEND OREILLE RIVER AT NEWPORT, WA



PERIOD 1953-90

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Table 1

Instream Flow Regimens for Fish, Wildlife, Recreation and Related
Environmental Resources

Narrative Description of Flows ^{1/}	Fisheries Classification ^{2/}	Recommended Base Flow Regimens	
		Oct.-Mar.	Apr.-Sept.
Flushing or Maximum	--	200% of the average flow ^{3/}	
Optimum Range	--	60%-100% of the average flow ^{4/}	
Outstanding	I	40%	60%
Excellent	II	30%	50%
Good	III	20%	40%
Fair or Degrading	IV	10%	30%
Poor or Minimum	--	10%	10%
Severe Degradation	--	10% of average flow to zero flow	

^{1/}Most appropriate description of the general condition of the streamflow for all the parameters listed in the title of this paper.

^{2/}Roman numeral ratings for Fisheries Classification Systems like those developed for the States of Idaho, Montana, West Virginia, Wyoming, and the Delaware River Basin Comprehensive Study by the U.S. Fish and Wildlife Service.^{5, 11, 14, 19, 26} The base flow regimens outlined above in columns 3 and 4 to maintain the respective designated classes, are judged to be as reliable and valid as the classification systems themselves. These recommended flows generally apply very well to both cold and warm water streams. Regimens should be reversed or altered to fit different hydrologic cycles, like the Salmonid streams on the West Coast, or to favor species like the fall spawning brown trout. Flows may be refined further by specifically matching them to vital periods of the life cycle of fishes, like migration, spawning, incubation, growth, etc. Use of the Montana Method on spring creeks or streams that have a very uniform flow year-around may provide unprecedented low-flow regimens at the minimum or base flow levels.

^{3/}The average flow will usually fill the active stream channel approximately 1/3 full or to the line of permanent terrestrial vegetation, while 3 times the average flow will often fill the active channel approximately to the point of spilling out on the first bench of the flood plain.¹⁵ Twice the average flow will produce effective depths and velocities within the stream channel for moving silt, sediment and other bed load material without doing extensive damage to the banks and riparian vegetation. Twice the average flow is a good maximum flow recommendation as well as a good flushing flow (Fig. 1).

^{4/}Optimum is a nebulous term; however, this flow range covers that definition best for all the parameters of this paper collectively.

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State of Idaho

DEPARTMENT OF WATER RESOURCES

1301 North Orchard Street, P.O. Box 83720, Boise, Idaho 83720-0098

Phone: (208)327-7900 FAX: (208)327-7866 www.idwr.state.id.us/idwr/idwrhome.htm

February 22, 1999

DIRK KEMPTHORNE
Governor

KARL J. DREHER
Director

STATE OF IDAHO
IDAHO WATER RESOURCE BOARD
PO BOX 83720
BOISE ID 83720-0098

RE: WATER RIGHT NO. 96-08730

Dear Water Right Holder(s):

The Department of Water Resources (the Department) has issued the enclosed license confirming that a water right has been established in accordance with the permit referenced above. The license is a preliminary order issued by the Department pursuant to section 67-5243, Idaho Code. It can and will become a final order without further action of the Department unless a party petitions for reconsideration or files an exception and/or brief as further described below:

PETITION FOR RECONSIDERATION

Any party may file a petition for reconsideration of a preliminary order with the Department within fourteen (14) days of the service date of this order. The Department will act on a petition for reconsideration within twenty-one (21) days of its receipt, or the petition will be considered denied by operation of law. See section 67-5243(3), Idaho Code.

EXCEPTIONS AND BRIEFS

Within twenty-one (21) days after (a) the service date of a preliminary order, (b) the service date of a denial of a petition for reconsideration from this preliminary order, or (c) the failure within twenty-one (21) days to grant or deny a petition for reconsideration from this preliminary order, any party may in writing support or take exceptions to any part of a preliminary order and may file briefs in support of the party's position on any issue in the proceeding. Otherwise, this preliminary order will become a final order of the Department.

If any party appeals or takes exceptions to this preliminary order, opposing parties shall have twenty-one (21) days to respond to any party's appeal. Written briefs in support of or taking exceptions to the preliminary order shall be filed with the Department. The Department retains the right to review the preliminary order on its own motion.

MICROFILMED

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ORAL ARGUMENT

If the Department grants a petition to review the preliminary order, the Department shall allow all parties an opportunity to file briefs in support of or taking exceptions to the preliminary order and may schedule oral argument in the matter before issuing a final order. If oral arguments are to be heard, the Department will within a reasonable time period notify each party of the place, date and hour for the argument of the case. Unless the Department orders otherwise, all oral arguments will be heard in Boise, Idaho.

CERTIFICATE OF SERVICE

All exceptions, briefs, requests for oral argument and any other matters filed with the Department in connection with the preliminary order shall be served on all other parties to the proceedings in accordance with Rules of Procedure 302 and 303.

FINAL ORDER

The Department will issue a final order within fifty-six (56) days of receipt of the written briefs, oral argument or response to briefs, whichever is later, unless waived by the parties or for good cause shown. The Department may remand the matter for further evidentiary hearings if further factual development of the record is necessary before issuing a final order. The Department will serve a copy of the final order on all parties of record.

Section 67-5246(5), Idaho Code, provides as follows:

Unless a different date is stated in a final order, the order is effective fourteen (14) days after its issuance if a party has not filed a petition for reconsideration. If a party has filed a petition for reconsideration with the agency head, the final order becomes effective when:

- (a) the petition for reconsideration is disposed of; or
- (b) the petition is deemed denied because the agency head did not dispose of the petition within twenty-one (21) days.

APPEAL OF FINAL ORDER TO DISTRICT COURT

Pursuant to sections 67-5270 and 67-5272, Idaho Code, if this preliminary order becomes final, any party aggrieved by the final order or orders previously issued in this case may appeal the final order and all previously issued orders in this case to district court by filing a petition in the district court of the county in which:

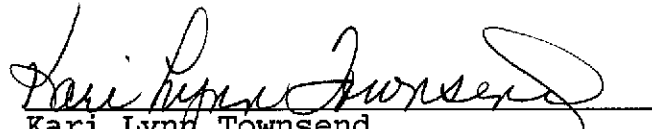
- i. A hearing was held,
- ii. The final agency action was taken,
- iii. The party seeking review of the order resides, or
- iv. The real property or personal property that was the subject of the agency action is located.

CERTIFICATE OF MAILING

I hereby certify that on the 22nd day of February, 1999, I mailed a true and correct copy, postage prepaid, of the foregoing PRELIMINARY ORDER (Approved License) to the person(s) listed below:

Water Right No. 96-08730

STATE OF IDAHO
IDAHO WATER RESOURCE BOARD
PO BOX 83720
BOISE ID 83720-0098


Kari Lynn Townsend
Secretary

MICROFILMED
APR 15 1999

WR0749NP
No. L96-08730

IDAHO DEPARTMENT OF WATER RESOURCES
WATER RIGHT PROFILE REPORT

DATE: 02/19/99
PAGE: 1

OWNER CODE	NAME & ADDRESS	PRIORITY DATE	WATER USE	USE PERIOD FROM TO	DIVERSION RATE	DIVERSION VOLUME
C	STATE OF IDAHO IDAHO WATER RESOURCE BOARD PO BOX 83720 BOISE ID 83720-0098 (208) 327-7910	06/15/1992	MINIMUM INSTREAM FLOW	01/01 12/31	10655.000 CFS	
					TOTAL DIVERSION:	10655.000 CFS

Water Source: PEND OREILLE RIVER

Tributary to: COLUMBIA RIVER

Stage: LICENSE

Point(s) of Beginning Stream Reach: T56N R05W S29	NWNW				BONNER County
Point(s) of Ending Stream Reach: T56N R06W S13	NWSW	SWSW			BONNER County
S24	NWNW	SWNW	NWSW		BONNER County

Pou County:

Other Water Rights with Same Point(s) of Diversion with Stage (Includes All Sources):
96-02118 96-08730 97-02056

Conditions of Approval:

027 - Use of water under this right shall be non-consumptive.

Remarks: GEN Establishment of a minimum flow on the Pend Oreille River in the requested reach shall serve to protect water released from Albeni Falls Dam as it flows through the requested reach at rates up to the established flow, but shall not directly or indirectly cause any change in the operation of Albeni Falls Dam.

Upon the future finding and order of the Director that gaging stations are required to maintain the approved minimum stream flow, the right holder shall permanently install and maintain gaging stations as specified by the department.

The Director retains jurisdiction, as described below, to review and amend any and all parameters of this right. The Board, upon receiving a request, or upon its own initiative, may petition the Director for an amendment to the right. The petition must set forth any significant change in circumstances and evidence of the public interest supporting the proposed amendment. The Director will notify the general public and specific persons or known interested parties of the proposed change, and conduct a hearing for the purpose of determining whether the right should be amended in the public interest. The burden of proof at the hearing shall be upon the persons or parties seeking the amendment to establish that the amendment of the right would be in the public interest.

This minimum stream flow begins at Albeni Falls Dam in the NWNW, S29, T56N, R5W and ends 2.4 miles downstream at the state line on the west side of Sections 13 and 14, T56N, R6W.

This minimum stream flow is for the protection of fish and wildlife habitat, aquatic life and recreational values.

WR0749NP
No. L96-08730

IDAHO DEPARTMENT OF WATER RESOURCES
WATER RIGHT PROFILE REPORT

DATE: 02/19/99
PAGE: 2

=====
Dates: App. Received: 06/15/1992 Priority Date: 06/15/1992
Proof Due Date: 10/01/2002 Proof Made Date: 08/31/1998
Exam Made Date: 01/13/1999 Exam Sent to S.O.: 01/14/1999
Licensed Date:

Misc: Water District Number: Field Exam Fee: N (Not Required)

Comments: Date: 02/18/1998 User-ID: CZIMMERM Subject: DIVERSION DESCRIPTION
From Albeni Falls Dam to the Idaho/Washington state line.

Date: 09/08/1998 User-ID: VAULT Subject: Proof of Beneficial Use Rcvd
Proof of Beneficial Use Rcvd

Audit: 02/19/99 SCURTIS

LICENSING REVIEW
MINIMUM STREAM FLOW

RIGHT NO. 96-08730

Proof of beneficial use rec'd 8/31/98

Was flow data submittal a requirement
with proof submittal? Yes ☐ No ☒

If yes, has data been reviewed and a determination
made that minimum flow is capable of being
maintained? Yes ☐ No ☐

Data submitted fully complies with permit condition
(i.e. # of years of flow data sufficient) _____

Data Entry for License:

Name Standardized ☒
Total cfs & div. capacity listed as highest flow ☒
P/D(s) beginning and ending descriptions listed ☒
Use flows defined for entire year ☒
P/U left blank (description in remarks) ☒
Remarks/non-standard conditions
Non-consumptive ☒
Watermaster control ☒
Jurisdiction retains to amend ☒
Description of reach(es) ☒
All other applicable permit conditions
carried forward ☐

Comments/adjustments _____

Printed license hand-edited _____

96-08730

order states flow capable of being maintained 90% of
time - records of discharge support that

81% ⁹⁴⁻⁹⁵ ~~92-93~~ 48 days (100% 95-96)
92% " ^{-17 days estimated flows} 31 99% 96-97 3 days
82% 93-94 65 days
91% ⁹²⁻⁹³ ~~94-95~~ 34 days

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3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe I.d. as applicable.

Scale: 1" = _____.

____ Copy of USGS Quadrangle Attached Showing location(s) of point(s) of diversion and place(s) of use (required).

____ Aerial Photo Attached (required for irrigation of 10+ acres)

____ Photo of Diversion and System Attached

4.

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size

*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date

2. Measurements: See USGS records

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Have conditions of permit approval been met? ☒ yes ☐ no

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F. FLOW CALCULATIONS

Measured Method:

☒ Additional Computation Sheets Attached**G. VOLUME CALCULATIONS**

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = \underline{\hspace{2cm}}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = \underline{\hspace{2cm}}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = \underline{\hspace{2cm}}$$

2. Volume Calculations for Other Uses:

$$\frac{1 \text{ cfs}}{10655 \text{ cfs}} = \frac{1.9835 \text{ af/day}}{x} \text{ then } x = 21134 \text{ af/day}$$

$$21134 \text{ af/day} \times 365 \text{ days} = 7,713,980 \text{ afa}$$

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
Minimum Instream Flow	01/01	12/31	10655 cfs	7713,980 afa
Totals:			10655 cfs	7713,980 afa

2. Recommended Amendments

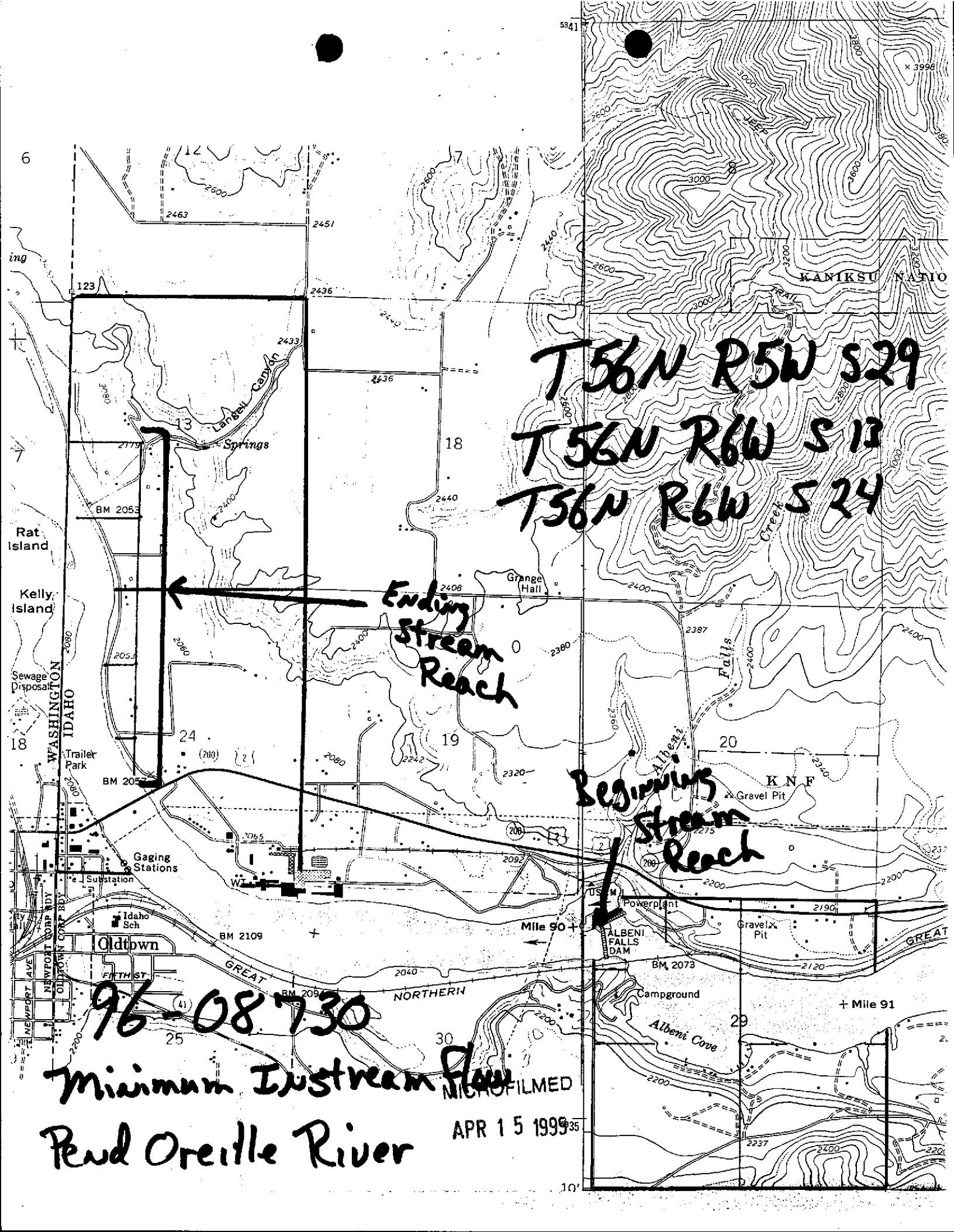
☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☐ None
☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

I. AUTHENTICATIONField Examiner's Name Daniel A. Poyl Date 1-14-99

Reviewer _____ Date _____

SEAL

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APR 15 1999



PEND OREILLE RIVER BASIN

12395500 PEND OREILLE RIVER AT NEWPORT, WA

LOCATION.--Lat 48°10'56", long 117°02'00", in SE¹/₄SE¹/₄SW¹/₄ sec.24, T.56 N., R.6 W. (Boise Meridian), Bonner County, Hydrologic Unit 17010216, on left bank, at Newport, 0.2 mi upstream from bridge on U.S. Highway 2, 0.2 mi east of Idaho-Washington State line, 1.6 mi downstream from Albeni Falls Dam, and at mile 88.5.

DRAINAGE AREA.--24,200 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1903 to September 1941, October 1952 to current year. Prior to October 1921, published as "Clark Fork at Newport, Wash.," October 1921 to September 1937, as "Clark Fork at Priest River, Idaho," and October 1937 to September 1941, as "Pend Oreille River at Priest River, Idaho."

REVISED RECORDS.--WSP 532: 1903-11.

GAGE.--Water-stage recorder. Datum of gage is 1,999.7 ft above sea level. Prior to Sept. 22, 1928, nonrecording gages at Priest River, Newport, or Metaline Falls at various datums (see description, WSP 532, p. 92). Sept. 22, 1928, to Sept. 30, 1935, at datum 40.44 ft higher, and Oct. 1, 1935, to Sept. 30, 1941, water-stage recorder at datum 0.30 ft higher. Since December 1952, auxiliary water-stage recorder 2.74 mi downstream from base gage.

REMARKS.--Records good except for estimated daily discharges, which are fair. Flow regulated at Albeni Falls Dam and affected by storage in Pend Oreille Lake (see sta 12392500), Flathead Lake, Hungry Horse Reservoir, and several smaller reservoirs. Diversions above station for irrigation of about 354,000 acres. Stage-discharge relation affected by backwater from Box Canyon dam 54 mi downstream. Discharge computed from slope and conveyance of reach between base and auxiliary gage.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 1894 reached a stage of about 64.0 ft present site and datum, (from water surface profiles) discharge, about 200,000 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24100	19000	15800	e11100	11600	e11500	16800	10700	44500	26100	25300	15100
2	25200	21500	17000	e11200	10200	15600	16900	10100	43900	25500	16900	15100
3	25100	25100	14800	e12000	10100	17400	17100	15600	42900	25100	13200	15200
4	25000	27500	10700	e12200	10200	15700	17000	19100	37600	26000	14900	15200
5	24900	27800	8320	e14800	10300	13400	17900	21000	35500	27200	14900	15200
6	25100	27300	10200	e16600	10300	12900	18000	21200	36500	32400	13000	13700
7	25100	27400	12100	e18000	10200	13000	18800	21100	32400	36800	12400	12700
8	25900	27100	11700	e17800	10400	13000	19600	21300	28600	37700	12300	12800
9	26400	26100	13300	e18000	9070	16900	19200	21700	29000	39000	12900	15400
10	26600	25700	12500	e19800	8450	19600	18800	22700	27200	41700	13700	15500
11	26400	25200	12200	e21000	8520	15300	19200	25800	24800	44500	13700	18400
12	26800	25000	11300	e21500	8580	12300	19400	27800	20900	38100	13100	18100
13	25900	24700	10600	e22000	8600	10600	18900	27400	20800	26700	12600	16700
14	26500	19500	10700	e21000	8610	10400	20500	29000	24100	25400	12300	16600
15	27300	14000	10800	e20200	9230	10400	20900	30700	26800	28800	12100	16400
16	27100	13300	e12200	e20600	e10400	10700	19000	31900	27000	32100	12200	16500
17	26900	12800	e16000	e19900	e11800	14100	17500	32300	27900	34300	12300	16500
18	26900	15000	e18000	e18400	e11500	18700	17700	38100	29200	32400	12900	16500
19	27200	18100	12800	e17000	e10600	14600	17700	44200	29400	25500	13200	16400
20	26900	18900	13100	e16400	e10500	8440	17200	48000	30500	25300	14400	16400
21	27000	11900	13300	e16900	e10300	8530	15500	52100	31200	21300	14200	16800
22	26700	12200	11800	e17300	e9800	8540	17700	52600	31700	26100	13300	16600
23	27100	14000	10400	e16900	e9500	8590	22800	52700	34700	24300	12700	20300
24	27300	16300	9360	e16900	e9400	10300	26100	52500	34800	27000	12300	24000
25	27400	15900	8170	14400	e9600	13800	25900	52600	31400	27800	12400	23900
26	27600	13700	8050	15200	e11200	14900	25300	52800	29600	26000	12700	23700
27	26900	12800	8190	18000	e12000	14700	22300	48200	28300	26300	16100	23600
28	20100	12700	e9600	14500	e11700	14800	21100	46500	28800	21200	14500	23400
29	16100	12500	10100	12900	---	16300	21100	52200	28500	23000	12800	20800
30	15900	12500	10800	12800	---	17200	21000	52700	27100	26800	13500	18700
31	16200	---	11300	12800	---	16900	---	50800	---	27400	14500	---
TOTAL	779600	575500	365190	518100	282660	419100	586900	1085400	925600	907800	427300	526200
MEAN	25150	19180	11780	16710	10090	13520	19560	35010	30850	29280	13780	17540
MAX	27600	27800	18000	22000	12000	19600	26100	52800	44500	44500	25300	24000
MIN	15900	11900	8050	11100	8450	8440	15500	10100	20800	21200	12100	12700
AC-FT	1546000	1142000	724400	1028000	560700	831300	1164000	2153000	1836000	1801000	847500	1044000

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1903 - 1993, BY WATER YEAR (WY)

	MEAN	17250	18170	15950	15280	16180	18710	27110	50200	62510	32990	14340	13510
MAX	31330	32280	32120	40010	31640	38420	56940	87470	114900	73730	45210	21990	
(WY)	1960	1960	1934	1934	1965	1972	1956	1934	1933	1907	1907	1907	
MIN	6208	6049	5987	4271	4380	6622	5507	15320	15220	7295	5875	6353	
(WY)	1932	1937	1937	1937	1936	1937	1977	1977	1977	1977	1988	1931	

SUMMARY STATISTICS

FOR 1992 CALENDAR YEAR

FOR 1993 WATER YEAR

WATER YEARS 1903 - 1993

ANNUAL TOTAL	5928330	7399350	25120
ANNUAL MEAN	16200	20270	37670
HIGHEST ANNUAL MEAN			12920
LOWEST ANNUAL MEAN			135000
HIGHEST DAILY MEAN	30000	May 8	52800
LOWEST DAILY MEAN	3280	Jan 31	8050
ANNUAL SEVEN-DAY MINIMUM	7040	Jan 28	8720
INSTANTANEOUS PEAK FLOW			54000
INSTANTANEOUS PEAK STAGE			b 41.03
INSTANTANEOUS LOW FLOW			6980
ANNUAL RUNOFF (AC-FT)	11760000	14680000	18200000
10 PERCENT EXCEEDS	26400	31500	53300
50 PERCENT EXCEEDS	15000		18800
90 PERCENT EXCEEDS	9620		8500

a Also occurred June 21, 1933, June 12, 1972.

b Also occurred May 31.

c Estimated

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PEND OREILLE RIVER BASIN

12395500 PEND OREILLE RIVER AT NEWPORT, WA

LOCATION.--Lat 48°10'56", long 117°02'00", in SE¹/₄SE¹/₄SW¹/₄ sec.24, T.56 N., R.6 W. (Boise Meridian), Bonner County, Hydrologic Unit 17010216, on left bank, at Newport, 0.2 mi upstream from bridge on U.S. Highway 2, 0.2 mi east of Idaho-Washington State line, 1.6 mi downstream from Albeni Falls Dam, and at mile 88.5.

DRAINAGE AREA.--24,200 mi², approximately.

PERIOD OF RECORD.--June 1903 to September 1941, October 1952 to current year. Prior to October 1921, published as "Clark Fork at Newport, Wash.," October 1921 to September 1937, as "Clark Fork at Priest River, Idaho," and October 1937 to September 1941, as "Pend Oreille River at Priest River, Idaho."

REVISED RECORDS.--WSP 532: 1903-11.

GAGE.--Water-stage recorder. Datum of gage is 1,999.7 ft above sea level. Prior to Sept. 22, 1928, nonrecording gages at Priest River, Newport, or Metaline Falls at various datums (see description, WSP 532, p. 92). Sept. 22, 1928, to Sept. 30, 1935, at datum 40.44 ft higher, and Oct. 1, 1935, to Sept. 30, 1941, water-stage recorder at datum 0.30 ft higher. Since December 1952, auxiliary water-stage recorder 2.74 mi downstream from base gage.

REMARKS.--Records good except for estimated daily discharges, which are fair. Flow regulated at Albeni Falls Dam and affected by storage in Pend Oreille Lake (see sta 12392500), Flathead Lake, Hungry Horse Reservoir, and several smaller reservoirs. Diversions above station for irrigation of about 354,000 acres. Stage-discharge relation affected by backwater from Box Canyon dam 54 mi downstream. Discharge computed from slope and conveyance of reach between base and auxiliary gage.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 1894 reached a stage of about 64.0 ft present site and datum, (from water surface profiles) discharge, about 200,000 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23600	24900	17200	16600	15800	11500	12300	27800	e25200	18000	6160	4970
2	23400	24800	20400	16300	15600	9460	9850	25400	e28600	15700	6180	4280
3	23700	25100	21500	16600	15500	11200	9840	25400	e29500	15600	6390	4330
4	23800	22400	19500	16700	15200	14800	9750	25900	e29700	15400	8780	4440
5	23600	19400	18000	16700	16200	19500	9930	25800	e29500	14000	12700	4440
6	24000	18400	18700	18100	15700	19500	9870	25100	e29500	12800	4560	11200
7	24000	18900	19300	20700	15100	19300	9410	25600	e29500	12700	4500	11700
8	23800	19600	21100	22900	14600	20500	13100	25500	e29600	13100	4510	10500
9	23900	18900	19800	22500	12500	19700	16300	25500	e29500	14300	8000	10700
10	24000	18900	17800	17500	11300	19100	16200	25000	e29100	15500	10400	10900
11	23900	19000	e17800	16400	11400	18100	15500	25700	e27600	15200	9940	11300
12	24000	16900	e17800	16400	11300	17400	14400	25500	e24200	14000	8480	10900
13	23800	14600	e17700	16500	11200	17000	14400	25200	e22800	12400	7940	11000
14	24300	14700	e18400	17200	12300	15700	14400	e25400	e25600	11900	7690	10900
15	24300	14400	e28900	16800	13700	13700	14500	e25600	e26800	11900	6170	10900
16	24200	14000	e18300	16700	14600	10700	14300	e25700	e26100	11600	5270	11000
17	23900	15700	14300	17100	15300	8890	14100	e25400	e25800	10900	5510	11100
18	23400	19900	12400	16800	14900	8920	14300	e25100	e24600	9190	5480	10700
19	23700	22300	13000	18400	14400	9090	14500	e22500	e24200	5880	4840	10800
20	23600	22200	14100	19400	14300	11000	16900	e18500	e23900	4870	4330	10900
21	23800	20900	16500	18700	14100	13800	22800	e16900	e23700	4850	4240	10600
22	23100	19400	17600	19300	13100	14100	27200	e16600	e24200	4850	4340	10700
23	23200	17800	21100	19400	12400	14600	29200	e16900	22600	4890	4850	11100
24	23300	15400	18900	18800	12900	15500	29400	e21200	20000	5480	5360	8150
25	23900	15200	17400	17300	13000	15200	29500	e21000	18700	7080	6290	8160
26	23500	15300	16900	16100	13500	14800	29800	e20900	16600	7560	5940	8210
27	23500	15000	18300	16200	13100	15100	30100	e18600	16700	7390	5480	8480
28	23700	14800	19600	16100	13200	15300	30200	e17100	19800	6780	5680	8490
29	24100	14100	19600	16200	---	15200	29200	e16900	22200	6270	6360	8740
30	24100	15800	17800	16300	---	15300	27300	e19400	22200	6050	6540	8560
31	24800	---	16200	16400	---	15200	---	e23500	---	6120	5620	---
TOTAL	737900	548700	555900	547100	386200	459160	548550	710600	748000	322260	198530	278150
MEAN	23800	18290	17930	17650	13790	14810	18280	22920	24930	10400	6404	9272
MAX	24800	25100	21500	22900	16200	20500	30200	27800	29700	18000	12700	11700
MIN	23100	14000	12400	16100	11200	8890	9410	16600	16600	4850	4240	4280
AC-FT	1464000	1088000	1103000	1085000	766000	910700	1088600	1409000	1484000	639200	393800	551700

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1903 - 1994, BY WATER YEAR (WY)

	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914
MEAN	17350	18180	15970	15310	16150	18650	26970	49770	61920	32650	14210	13440
MAX	31330	32280	32120	40010	31640	38420	56940	87470	114900	73730	45210	21990
(WY)	1960	1960	1934	1934	1965	1972	1956	1934	1933	1907	1907	1907
MIN	6208	6049	5987	4271	4380	6622	5507	15320	15220	7295	5875	6353
(WY)	1932	1937	1937	1937	1936	1937	1977	1977	1977	1977	1988	1931

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR	FOR 1994 WATER YEAR	WATER YEARS 1903 - 1994
ANNUAL TOTAL	7521560	6041050	
ANNUAL MEAN	20610	16550	24990
HIGHEST ANNUAL MEAN			37670
LOWEST ANNUAL MEAN			12920
HIGHEST DAILY MEAN	52800	May 26	135000
LOWEST DAILY MEAN	8440	Mar 20	2420
ANNUAL SEVEN-DAY MINIMUM	8720	Feb 9	3280
INSTANTANEOUS PEAK FLOW			* 136000
ANNUAL RUNOFF (AC-FT)	14920000		1280
10 PERCENT EXCEEDS	31500		18100000
50 PERCENT EXCEEDS	18700		52900
90 PERCENT EXCEEDS	11400		18700
			8500

* Also occurred June 21, 1933, June 12, 1972.
e Estimated

MICROFILMED
APR 15 1999

PEND OREILLE RIVER BASIN

12395500 PEND OREILLE RIVER AT NEWPORT, WA

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DRAINAGE AREA.--24,200 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1903 to September 1941, October 1952 to current year. Prior to October 1921, published as "Clark Fork at Newport, Wash.," October 1921 to September 1937, as "Clark Fork at Priest River, Idaho," and October 1937 to September 1941, as "Pend Oreille River at Priest River, Idaho."

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GAGE.--Water-stage recorder. Datum of gage is 1,999.7 ft above sea level. Prior to Sept. 22, 1928, nonrecording gages at Priest River, Newport, or Metaline Falls at various datums (see description, WSP 532, p. 92). Sept. 22, 1928, to Sept. 30, 1935, at datum 40.44 ft higher, and Oct. 1, 1935, to Sept. 30, 1941, water-stage recorder at datum 0.30 ft higher. Since December 1952, auxiliary water-stage recorder 2.74 mi downstream from base gage.

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EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 1894 reached a stage of about 64.0 ft present site and datum, (from water surface profiles) discharge, about 200,000 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8720	20400	20000	10200	e7700	24100	29400	18700	40700	39800	11600	8640
2	18500	22600	15500	10600	e7500	24100	22200	18800	41000	44200	11000	8400
3	19500	25900	12800	e14400	e7800	24200	19400	19100	41300	38100	12500	9040
4	19600	26900	e12400	e13500	e7600	24100	18100	18900	41200	29500	12400	10300
5	18700	27900	e11400	e11700	e7600	24200	19500	19200	41000	30500	12300	12800
6	17100	27800	e9400	e10400	e7600	24400	19400	19300	41700	33600	14800	14100
7	19700	26900	e8000	e9900	e7600	24500	19500	19000	49400	39600	15400	14900
8	19500	27400	e7600	e10300	7650	24000	21800	18900	63200	41800	16300	19700
9	19500	27400	e9800	e11500	7610	24200	22100	18600	62800	42200	16200	19400
10	19500	26700	10200	e14900	14400	23800	21900	19000	63200	40200	13700	19800
11	19600	25900	12900	e15300	23100	19400	22000	19500	64000	34700	11900	14800
12	19600	25100	e13900	e15700	25800	16700	22200	21100	63900	28500	11000	13900
13	19600	17600	e12000	e15900	26500	16500	22400	21300	54500	26000	11200	11600
14	19600	12600	10800	e14800	27300	17400	21800	21000	46800	26400	11400	8860
15	19700	13500	9530	e13500	27100	17400	21700	25500	46400	27100	11100	8780
16	19600	13100	8660	e13700	22000	19200	21800	27900	51700	28300	11100	8520
17	19600	12400	9470	e13800	19100	23900	21800	32000	57500	28000	11200	8490
18	19800	12500	11600	e12900	18300	24400	21800	33300	57800	24300	11100	8540
19	19700	12500	12400	e12900	18100	24600	17900	35400	57500	21700	11100	14700
20	19500	12200	14200	e13700	18300	26800	15700	34800	57600	19500	11200	15600
21	19600	15900	13800	e15100	18600	28300	17400	34700	57700	15500	12200	16400
22	19600	19400	12000	e15200	20300	27900	18900	34700	55600	14900	14200	16000
23	19700	18000	10900	e15400	18800	29000	19000	34600	52400	14900	14900	15600
24	19700	16600	10000	e15100	18600	31600	19400	34600	52400	22000	15100	15700
25	19800	15500	10000	e14500	18600	31400	18900	35600	52200	26300	11600	15800
26	19300	16100	8520	e14000	18800	31200	18800	36700	52100	23900	7250	15600
27	19400	16300	8890	e9500	21400	31000	18800	37200	48600	20100	7710	16500
28	21600	13600	10600	e5000	24200	30900	18700	37300	42500	18500	8690	17000
29	22600	13800	10200	e7800	---	30800	18700	37500	40900	19400	8720	17200
30	22600	17800	11300	e7700	---	30800	18700	37400	37300	19200	8780	17300
31	21700	---	11300	e7800	---	30700	---	39500	---	17100	8510	---
TOTAL	602220	580300	350070	386700	467960	781500	609700	861100	1534900	855800	366160	413970
MEAN	19430	19340	11290	12470	16710	25210	20320	27780	51160	27610	11810	13800
MAX	22600	27900	20000	15900	27300	31600	29400	39500	64000	44200	16300	19800
MIN	8720	12200	7600	5000	7500	16500	15700	18600	37300	14900	7250	8400
AC-FT	1195000	1151000	694400	767000	928200	1550000	1209000	1708000	3044000	1697000	726300	821100

STATISTICS OF MONTHLY MEAN DATA FOR PERIOD OF RECORD, BY WATER YEAR (WY)

MEAN	17380	18190	15900	15270	16150	18750	26870	49440	61760	32570	14180	13450
MAX	31330	32280	32120	40010	31640	38420	56940	87470	114900	73730	45210	21990
(WY)	1960	1960	1934	1934	1965	1972	1956	1934	1933	1907	1907	1907
MIN	6208	6049	5987	4271	4380	6622	5507	15320	15220	7295	5875	6353
(WY)	1932	1937	1937	1937	1936	1937	1977	1977	1977	1977	1988	1931

PEND OREILLE RIVER BASIN

12395500 PEND OREILLE RIVER AT NEWPORT, WA

1996

63

LOCATION.--Lat 48°10'56", long 117°02'00", in SE 1/4 SE 1/4 SW 1/4 sec.24, T.56 N., R.6 W. (Boise Meridian), Bonner County, Hydrologic Station 17010216, on left bank, at Newport, 0.2 mi upstream from bridge on U.S. Highway 2, 0.2 mi east of Idaho-Washington State line, 1.2 mi downstream from Albeni Falls Dam, and at mile 88.5.

DRAINAGE AREA.--24,200 mi², approximately.

PERIOD OF RECORD.--June 1903 to September 1941, October 1952 to current year. Prior to October 1921, published as "Clark Fork at Newport, Wash.," October 1921 to September 1937, as "Clark Fork at Priest River, Idaho," and October 1937 to September 1941, as "Clark Fork at Priest River, Idaho."

BASED RECORDS.--WSP 532: 1903-11.

REMARKS.--Water-stage recorder. Datum of gage is 1,999.7 ft above sea level. Prior to Sept. 22, 1928, nonrecording gages at Priest River, Newport, or Metaline Falls at various datums (see description, WSP 532, p. 92). Sept. 22, 1928, to Sept. 30, 1935, at datum 40.44 ft higher, and Oct. 1, 1935, to Sept. 30, 1941, water-stage recorder at datum 0.30 ft higher. Since December 1952, auxiliary water-stage recorder 2.74 mi downstream from base gage.

REMARKS.--Records good except for estimated daily discharges, which are poor. Flow regulated at Albeni Falls Dam and affected by storage in Pend Oreille Lake (see sta 12392500), Flathead Lake, Hungry Horse Reservoir, and several smaller reservoirs. Diversions above station for irrigation of about 354,000 acres. Stage-discharge relation affected by backwater from Box Canyon dam 54 mi downstream. Discharge computed from slope and conveyance of reach between base and auxiliary gage.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 136,000 ft³/s June 15, 1933, June 21, 1933, June 12, 1972; minimum, 1,280 ft³/s Sept. 1, 1961.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 1894 reached a stage of about 64.0 ft, present site and datum. (from water surface profiles) discharge, about 200,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 96,200 ft³/s June 14, gage height, 47.21 ft; maximum gage height, 47.24 ft, June 15; minimum daily, 12,000 ft³/s Sept. 2.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17300	30700	21500	e24000	e17000	42600	31500	64300	e82000	48300	19800	12200
2	17200	30400	33200	e25000	e16500	41200	33500	63900	e82000	50600	22200	12000
3	17200	30300	42200	e26000	e18000	41700	37300	63200	e82500	50500	26600	14400
4	19900	26700	46700	e27500	e20500	41200	39600	62800	e81500	53400	22300	16600
5	22200	26200	48500	e28500	e21500	43800	42300	61800	e84000	51300	19400	16900
6	22400	23900	48900	e28000	e22500	45300	42600	59800	e85500	50600	19500	16100
7	22100	21900	47900	e26000	e22500	48300	39800	56000	e86500	50100	19500	15400
8	22000	22700	45600	e24000	22300	47700	35900	53400	87800	42700	19600	15600
9	21900	22600	43000	e25000	21500	47000	36400	52900	89200	39500	17400	15500
10	22000	24900	44800	e24000	29300	46800	41600	49500	90600	38500	16400	15300
11	16900	28400	45100	e23000	46900	44800	49800	45500	92100	36700	16500	15500
12	16200	28800	42300	e27500	52400	42800	52800	43900	94000	30200	16500	15800
13	16200	28900	40000	e28000	52800	42800	55200	e44000	94600	24600	16500	16000
14	16300	27800	37800	e27500	52600	43800	56500	e44500	94700	25200	17800	15500
15	16300	25600	e41500	e27500	52400	42200	60400	e49500	94600	27800	18600	15400
16	24700	25800	46800	e27500	52600	40800	63800	e62000	93800	28600	16600	15400
17	26000	29300	44700	e27500	53100	40800	63400	e68000	98500	27400	15500	15600
18	27500	29200	42000	e28000	53000	40600	63200	e70500	98000	24500	15400	15900
19	30100	29200	e38400	e27500	53200	41100	63000	e73000	93100	24900	15400	16000
20	30900	29400	e33500	e27500	53500	41900	62200	e76000	92400	26300	15600	16400
21	30300	28800	e31000	e27500	54000	42400	61800	e77500	99700	25900	15800	14700
22	30600	28500	e30000	e22500	54900	42800	61400	e78500	91200	26300	15700	14800
23	30500	28400	e29800	e21500	53700	42500	61000	e79500	99800	24200	15700	13400
24	30900	28000	e30200	e28000	54600	42500	60600	e80000	94500	18000	18100	13000
25	31600	27800	e29600	e28500	54200	42500	62500	e79500	97500	14800	20200	12700
26	31600	28100	e27500	e28500	50900	40000	63300	e79500	90700	12800	19500	12700
27	31600	29100	e24500	e28500	47400	36600	64800	e79000	96400	13500	18000	14400
28	30900	30100	e22000	e29000	47500	38400	65200	e78500	94800	16300	17500	18500
29	31200	29300	e27000	e28000	46100	38900	65000	e79500	90500	16400	17500	18500
30	30900	21400	e28500	e26500	---	38900	64400	e80000	47400	16900	14700	19000
31	31000	---	e26000	e22500	---	37400	---	e82500	---	17200	12800	---
TOTAL	766400	822200	1140500	820500	1197400	1310100	1600800	2038500	2261500	954000	552600	458200
MEAN	24720	27410	36790	26470	41290	42260	53360	65760	75380	30770	17830	15270
MAX	31600	30700	48900	29000	54900	48300	65200	82500	94700	53400	26600	19000
MIN	16200	21400	21500	15500	16500	36600	31500	43900	46400	12800	12800	12000
AC-FT	1520000	1631000	2262000	1627000	2375000	2599000	3175000	4043000	4486000	1892000	1396000	908800

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1903 - 1996, BY WATER YEAR (WY)

	17490	18330	16220	15440	16550	19100	27270	49680	61960	32540	14230	13480
MEAN	17490	18330	16220	15440	16550	19100	27270	49680	61960	32540	14230	13480
MAX	31330	32280	36790	40010	41290	42260	56940	87470	114900	73730	45210	21990
(WY)	1960	1960	1996	1934	1996	1996	1956	1934	1933	1907	1907	1907
MIN	6208	6049	5987	4271	4380	6622	5507	15320	15220	7295	5875	6353
(WY)	1932	1937	1937	1937	1936	1937	1977	1977	1977	1988	1988	1931

SUMMARY STATISTICS

	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1903 - 1996
TOTAL	9006890	13922700	
MEAN	24680	38040	25130
MEAN			38040
MEAN			12920
MEAN			135000
MEAN	64000	94700	2420
MEAN	5000	12000	3280
MEAN	7330	13700	18210000
MEAN	17870000	520000	53000
MEAN	42100	65100	18900
MEAN	22000	30500	8530
MEAN	11100	16100	

* Estimated

MICROFILMED
APR 15 1999

PEND OREILLE RIVER BASIN

12395500 PEND OREILLE RIVER AT NEWPORT, WA

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GAGE.--Water-stage recorder. Datum of gage is 1,999.7 ft above sea level. Prior to Sept. 22, 1928, nonrecording gages at Priest River, Newport, or Metaline Falls at various datums (see description, WSP 532, p. 92). Sept. 22, 1928, to Sept. 30, 1935, at datum 40.44 ft higher, and Oct. 1, 1935, to Sept. 30, 1941, water-stage recorder at datum 0.30 ft higher. Since December 1952, auxiliary water-stage recorder 2.74 mi downstream from base gage.

REMARKS.--Records good except for discharges above 100,000 ft³/s and estimated daily discharges, which are fair. Flow regulated at Albeni Falls Dam and affected by storage in Pend Oreille Lake (see sta 12392500), Flathead Lake, Hungry Horse Reservoir, and several smaller reservoirs. Diversions above station for irrigation of about 354,000 acres. Stage-discharge relation affected by backwater from Box Canyon dam 54 mi downstream. Discharge computed from slope and conveyance of reach between base and auxiliary gage.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 136,000 ft³/s June 15, 1933, June 21, 1933, June 12, 1972; minimum, 1,280 ft³/s Sept. 1, 1961.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 1894 reached a stage of about 64.0 ft, present site and datum, (from water surface profiles) discharge, about 200,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 132,000 ft³/s June 5, gage height, 53.44 ft; maximum gage height, 53.58 ft, June 7; minimum daily, 9,640 ft³/s Aug. 10.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21000	20800	18500	e26000	26300	18800	43100	67700	123000	44700	24100	21100
2	21200	18800	16900	e28000	26400	20800	37600	68800	126000	54500	24000	21000
3	21100	15800	14600	e28000	25300	27200	30100	68700	127000	58400	24000	21000
4	19100	15700	13800	e32000	21800	26600	34100	68800	128000	57800	23900	20700
5	17400	15800	15400	e36000	20200	25800	36900	68900	128000	58500	23900	20800
6	25000	16100	16700	e30000	20300	23500	33800	68300	128000	58700	23000	20800
7	25600	17200	19600	e27000	19900	25300	32400	69500	128000	55300	22200	20800
8	25600	19900	23700	e28000	20000	26900	32100	70400	127000	46400	19000	18600
9	23200	18600	22000	e29000	19700	27100	32000	71300	127000	37400	12300	16500
10	21800	17800	21700	e28000	20500	26900	31500	72700	127000	35400	9640	16400
11	19600	16400	22600	25600	20500	26400	31200	74800	126000	38400	9720	16500
12	18600	15000	19500	21500	21900	23400	31700	77700	125000	41200	9790	16400
13	18600	15500	18600	19600	23000	20800	32200	81800	124000	44300	11000	16600
14	19100	17500	18300	16700	24300	20800	38500	86800	124000	47200	19800	16500
15	18800	16600	18200	15400	25400	20900	42400	94100	123000	44900	23400	16300
16	19100	15000	17100	15400	24700	21600	39100	102000	123000	41500	19900	16500
17	19300	15400	15500	17900	22100	23000	35500	112000	123000	34100	16800	16600
18	19100	19100	17100	22800	20500	23400	36600	120000	122000	30300	18200	18200
19	19000	21900	18000	24600	22600	27800	40100	122000	120000	29800	20700	19500
20	19400	21000	19000	22400	21800	32400	47200	123000	119000	29200	17400	19300
21	16600	19000	19200	21200	20500	42400	53000	124000	118000	27400	16300	18900
22	14100	18600	20300	19600	22400	49700	56600	123000	116000	29100	17900	18400
23	11800	18700	20000	18900	23700	49200	57800	122000	109000	30700	22200	18600
24	17500	18600	19100	19100	20300	47900	58800	122000	106000	29500	24900	19400
25	19000	19400	18600	19800	16600	44800	59700	122000	98600	25900	24500	18800
26	22000	20800	16300	20200	15700	36800	59800	122000	85500	24300	22500	20500
27	26400	20100	e14000	20400	16400	37800	60300	122000	75500	21900	22300	21200
28	28400	24600	e13000	20400	18500	46800	62800	122000	63200	21300	22700	21100
29	17700	20000	e13000	20000	---	50200	64800	122000	51100	21900	19200	23000
30	18000	19000	e15000	19600	---	49600	66300	121000	43000	22400	14900	24600
31	20000	---	e20000	23300	---	45700	---	122000	---	23600	18400	---
TOTAL	623100	548700	555300	716400	601300	990300	1318000	3033300	3363900	1166000	598550	574600
MEAN	20100	18290	17910	23110	21480	31950	43930	97850	112100	37610	19310	19150
MAX	28400	24600	23700	36000	26400	50200	66300	124000	128000	58700	24900	24600
MIN	11800	15000	13000	15400	15700	18800	30100	67700	43000	21300	9640	16300
AC-FT	1236000108800011010001421000			1193000	1964000	2614000	6017000	6672000	2313000	1187000	1180000	

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1903 - 1997, BY WATER YEAR (WY)

	MEAN	17530	18330	16250	15550	16620	19300	27520	50400	62710	32620	14310	13560
	MAX	31330	32280	36790	40010	41290	42260	56940	97850	114900	73730	45210	21990
(WY)	1960	1960	1996	1996	1996	1996	1996	1996	1997	1997	1997	1997	1997
	MIN	6208	6049	5987	4271	4380	6622	5507	15320	15220	7295	5875	6353
(WY)	1932	1937	1937	1937	1937	1936	1937	1977	1977	1977	1977	1988	1991

SUMMARY STATISTICS	FOR 1996 CALENDAR YEAR	FOR 1997 WATER YEAR	WATER YEARS 1903 - 1997
ANNUAL TOTAL	12920700	14089450	
ANNUAL MEAN	35300	38600	25330
HIGHEST ANNUAL MEAN			38600
LOWEST ANNUAL MEAN			12920
HIGHEST DAILY MEAN	94700	Jun 14 128000	Jun 4 135000
LOWEST DAILY MEAN	11800	Oct 22 9640	Aug 10 2420
ANNUAL SEVEN-DAY MINIMUM	13700	Aug 8 13000	Sep 19 1962
ANNUAL RUNOFF (AC-FT)	25630000	27950000	Aug 28 1962
10 PERCENT EXCEEDS	65100	114000	18350000
50 PERCENT EXCEEDS	26000	22000	53400
90 PERCENT EXCEEDS	15500	16500	18900
			8580

e Estimated

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APR 15 1999

**ANALYSIS SHEET
FOR
PROOF OF BENEFICIAL USE**

Permit No. 96-08730 Reviewed by Jy Date 10-20-98

GENERAL CONSIDERATIONS

TYPES OF USE

yes Name same as permit?
yes Address same as permit?
yes Proof timely received? Correct Uses? yes
If not, complete calculation below.

SOURCE OF WATER

☒ Surface water source
☐ Ground water source
☐ Drilling permit required?
☐ Copy in the file? Drilling Permit No. _____
☐ Amount paid for permit _____ Correct?
☐ Well log in the file?

LICENSE EXAMINATION FEE

MEASURING DEVICE

____ Required?
exempt Amount Submitted
____ Correct?

NO Required?
____ Installed?
____ Waiver requested?

PRIORITY CALCULATION

Date proof received _____
Date proof due _____
No. of days late _____
Priority Date _____
New Priority Date _____

DEFICIENCIES OR ACTION ITEMS

Proof Acceptable

DATA ENTRY

New Address X Proof Made 8-31-98



State of Idaho

DEPARTMENT OF WATER RESOURCES

1301 North Orchard Street, P.O. Box 83720, Boise, Idaho 83720-0098

Phone: (208) 327-7900 FAX: (208) 327-7866

PHILIP E. BATT
GOVERNOR

KARL J. DREHER
DIRECTOR

October 21, 1998

IDAHO WATER RESOURCE BOARD
ATTN JOHN BEAL
P O BOX 83720
BOISE ID 83720-0098

PROOF ACKNOWLEDGMENT LETTER

RE: PERMIT NO. 96-08730

Dear Permit Holder:

The department acknowledges receipt of the proof of beneficial use form submitted for the above referenced permit.

The next step in the process of recommending a minimum stream flow is for the department to review the information submitted and make a recommendation.

Sincerely,

JULIE L. YARBROUGH
Senior Secretary, Water Allocation Bureau

c: IDWR - Northern Region

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OCT 28 1998

MEMORANDUM

To: Glen Saxton
Water Right Files 96-08730, 91-07122 and 92-07200

From: John Beal *John Beal*

Date: April 17, 1998

Re: Minimum Stream Flow Water Rights presented to the 1998 Legislature

The minimum stream flow water rights for the Pend Oreille, St. Joe and St. Maries rivers were sent to the Idaho legislature this year. Bill Graham gave a presentation before the Senate Resource and Environment Committee early in the session. It does not appear that a joint resolution was prepared for approval of these flows.

In accordance with Idaho Code 42-1503, if the Legislature does not act on the minimum stream flow application prior to the end of the legislative session, the application shall be considered approved.

Permits have been issued for these Water rights. I plan to submit proofs for them this year.

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OCT 28 1998

draft

minflo.cr3

01-05-98

lgs

**A CONCURRENT RESOLUTION
APPROVING APPLICATION TO APPROPRIATE WATER
FOR MINIMUM STREAMFLOW**

Be It Resolved by the Legislature of the State of Idaho:

WHEREAS, the Idaho Water Resource Board may apply for a permit to appropriate unappropriated waters of any stream to establish a minimum streamflow; and

WHEREAS, under the provisions of Section 42-1503, Idaho Code, an approved application shall not become finally effective until affirmatively acted upon by the Legislature, except that if the Legislature fails to act prior to the end of the regular session to which the application was submitted, the application shall be considered approved; and

WHEREAS, on December 11, 1997, the Director of the Department of Water Resources approved the following application by issuing a Final Order authorizing the appropriation of water for minimum streamflow:

Ident. No:	96-08730
Source:	Pend Oreille River tributary to Columbia River.
Reach descr:	A 2.4 mile reach beginning at Albeni Falls Dam in the NW1/4NW1/4 Section 29, T56N, R5W, B.M. downstream to the state line on the west side of Sections 13 and 24, T56N, R6W, B.M.
Amount:	10,655 cubic feet per second year-round.
Use:	To protect fish and wildlife habitat, aquatic life and recreational values.

NOW, THEREFORE, BE IT RESOLVED by the members of the Second Regular Session of the Fifty-fourth Idaho Legislature, the Senate and the House of Representatives concurring therein, that the same is hereby approved subject to the conditions and limitations contained in the Final Order issued by the Director of the Department of Water Resources on December 11, 1997.

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OCT 28 1998

NOTICE

The minimum stream flow hearing information is located in File No. 91-07122.

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APR 10 1998

PS Form 3877, Sept. 1986



State of Idaho

DEPARTMENT OF WATER RESOURCES

1301 North Orchard Street, P.O. BOX 83720, Boise, Idaho 83720-0098
Phone: (208) 327-7900 FAX: (208) 327-7866

PHILIP E. BATT
GOVERNOR

KARL J. DREHER
DIRECTOR

January 12, 1998

The Honorable Michael K. Simpson
Speaker of the House
Statehouse Mail
Boise, ID 83720

RE: APPLICATION FOR PERMIT NOS. 91-07122, 92-07200 AND 96-08730 TO
ESTABLISH MINIMUM STREAM FLOWS ON THE ST. JOE RIVER, ST.
MARIES RIVER AND PEND OREILLE RIVER

Dear Mr. Simpson:

Enclosed for your consideration are copies of the above referenced applications for permit along with the final order which concludes the administrative processing of the applications. As you are aware, Section 42-1503, Idaho Code, requires that the applications be reviewed by the legislature. As defined by statute, each application "(i) shall not become finally effective until affirmatively acted upon by concurrent resolution of the Idaho Legislature; or (ii) except that if the legislature fails to act prior to the end of the regular session to which the application was submitted, the application shall be considered approved."

At the hearings I am required to conduct, there was no opposition to the establishment of these minimum stream flows.

This letter with its enclosures constitutes submittal of the applications to the legislature for approval. Please advise if you would like further information or presentation on the nature of the applications.

Sincerely,

A handwritten signature in dark ink, appearing to read 'Karl J. Dreher', written over a horizontal line.

KARL J. DREHER
Director

Enclosures

c: Mike Nugent

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APR 10 1998



State of Idaho

DEPARTMENT OF WATER RESOURCES

1301 North Orchard Street, P.O. BOX 83720, Boise, Idaho 83720-0098

Phone: (208) 327-7900 FAX: (208) 327-7866

PHILIP E. BATT
GOVERNOR

KARL J. DREHER
DIRECTOR

January 12, 1998

The Honorable Jerry Twiggs
Senator Pro Tem
Statehouse Mail
Boise, ID 83720

RE: APPLICATION FOR PERMIT NOS. 91-07122, 92-07200 AND 96-08730 TO
ESTABLISH MINIMUM STREAM FLOWS ON THE ST. JOE RIVER, ST.
MARIES RIVER AND PEND OREILLE RIVER

Dear Senator Twiggs:

Enclosed for your consideration are copies of the above referenced applications for permit along with the final order which concludes the administrative processing of the applications. As you are aware, Section 42-1503, Idaho Code, requires that the applications be reviewed by the legislature. As defined by statute, each application "(i) shall not become finally effective until affirmatively acted upon by concurrent resolution of the Idaho Legislature; or (ii) except that if the legislature fails to act prior to the end of the regular session to which the application was submitted, the application shall be considered approved."

At the hearings I am required to conduct, there was no opposition to the establishment of these minimum stream flows.

This letter with its enclosures constitutes submittal of the applications to the legislature for approval. Please advise if you would like further information or presentation on the nature of the applications.

Sincerely,

KARL J. DREHER
Director

Enclosures

c: Mike Nugent

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APR 10 1998



State of Idaho

DEPARTMENT OF WATER RESOURCES

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Phone: (208) 327-7900 FAX: (208) 327-7866

**PHILIP E. BATT
GOVERNOR**

December 12, 1997

**KARL J. DREHER
DIRECTOR**

RE: In the Matter of Application for Permit No. 96-08730 in
the name of the Idaho Water Resource Board

Dear Interested Party:

The accompanying order is a "final order" issued by the
department pursuant to section 67-5246 or 67-5247, Idaho Code.

Section 67-5246 provides as follows:

(1) If the presiding officer is the agency head, the
presiding officer shall issue a final order.

(2) If the presiding officer issued a recommended order, the
agency head shall issue a final order following review of that
recommended order.

(3) If the presiding officer issued a preliminary order, that
order becomes a final order unless it is reviewed as required in
section 67-5245, Idaho Code. If the preliminary order is reviewed,
the agency head shall issue a final order.

(4) Unless otherwise provided by statute or rule, any party
may file a petition for reconsideration of any order issued by the
agency head within fourteen (14) days of the issuance of that
order. The agency head shall issue a written order disposing of
the petition. The petition is deemed denied if the agency head
does not dispose of it within twenty-one (21) days after the filing
of the petition.

(5) Unless a different date is stated in a final order, the
order is effective fourteen (14) days after its issuance if a party
has not filed a petition for reconsideration. If a party has filed
a petition for reconsideration with the agency head, the final
order becomes effective when:

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APR 10 1998

- (a) the petition for reconsideration is disposed of; or
- (b) the petition is deemed denied because the agency head did not dispose of the petition within twenty-one (21) days.

(6) A party may not be required to comply with a final order unless the party has been served with or has actual knowledge of the order. If the order is mailed to the last known address of a party, the service is deemed to be sufficient.

(7) A non-party shall not be required to comply with a final order unless the agency has made the order available for public inspection or the nonparty has actual knowledge of the order.

(8) The provisions of this section do not preclude an agency from taking immediate action to protect the public interest in accordance with the provisions of section 67-5247, Idaho Code.

PETITION FOR RECONSIDERATION

Any party may file a petition for reconsideration of a final order within fourteen (14) days of the service date of this order. The department will act on a petition for reconsideration within twenty-one (21) days of its receipt, or the petition will be considered denied by operation of law. See section 67-5246(4) Idaho Code.

APPEAL OF FINAL ORDER TO DISTRICT COURT

Pursuant to sections 67-5270 and 67-5272, Idaho Code, any party aggrieved by a final order or orders previously issued in a matter before the department may appeal the final order and all previously issued orders in the matter to district court by filing a petition in the district court of the county in which:

- i. A hearing was held,
- ii. The final agency action was taken,
- iii. The party seeking review of the order resides, or
- iv. The real property or personal property that was the subject of the agency action is located.

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APR 10 1992

The appeal must be filed within twenty-eight (28) days a) of the service date of the final order, b) of an order denying petition for reconsideration, or c) the failure within twenty-one (21) days to grant or deny a petition for reconsideration, whichever is later. See section 67-5273, Idaho Code. The filing of an appeal to district court does not in itself stay the effectiveness or enforcement of the order under appeal.

Sincerely,

A handwritten signature in cursive script, reading "L. Glen Saxton".

L. GLEN SAXTON, Chief
Water Allocation Bureau

Enclosure

c: IDWR - Region

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APR 10 1992



State of Idaho

DEPARTMENT OF WATER RESOURCES

1301 North Orchard Street, P.O. BOX 83720, Boise, Idaho 83720-0098

Phone: (208) 327-7900 FAX: (208) 327-7866

PHILIP E. BATT
GOVERNOR

KARL J. DREHER
DIRECTOR

August 28, 1997

RE: In the matter of Application for Permit No. 96-08730 in the name of the Idaho Water Resource Board

Dear Interested Party:

The accompanying order is a "**recommended order**" issued by the department pursuant to Section 67-5243, Idaho Code. The provisions of this order will not become effective until the Director issues a final order in this matter.

Each party to these proceedings who appeared at the hearing may file a petition for reconsideration, briefs and exceptions to the recommended order and may request oral argument before the Director of the department as further described below:

PETITION FOR RECONSIDERATION

Any party may file a petition for reconsideration of a recommended order with the hearing officer issuing the order within fourteen (14) days of the service date of the order. The hearing officer will act on a petition for reconsideration within twenty-one (21) days of its receipt, or the petition will be considered denied by operation of law. See Section 67-5243(3), Idaho Code.

EXCEPTIONS AND BRIEFS

Within twenty-one (21) days after (a) the service date of this recommended order, (b) the service date of a denial of a petition for reconsideration from this recommended order, or (c) the failure within twenty-one (21) days to grant or deny a petition for reconsideration from this recommended order, any party may in writing support or take exceptions to any part of a recommended order and may file briefs in support of the party's position on any issue in the proceeding. Written briefs in support of or taking exceptions to the recommended order shall be filed with the Director. Opposing parties shall have twenty-one (21) days to respond.

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APR 10 1998

ORAL ARGUMENT

The Director may schedule oral argument in the matter before issuing a final order. Oral argument on exceptions to a recommended order shall be heard at the discretion of the Director. If oral arguments are to be heard, the Director will, within a reasonable time, notify each party of the place, date and hour for the argument of the case. Unless the Director orders otherwise, all oral arguments will be heard in Boise, Idaho.

CERTIFICATE OF SERVICE

All exceptions, briefs, requests for oral argument and any other matters filed with the Director in connection with the recommended order shall be served on all other parties to these proceedings in accordance with Rules of Procedure 302 and 303.

FINAL ORDER

The Director will issue a final order within fifty-six (56) days of receipt of the written briefs, oral argument or response to briefs, whichever is later, unless waived by the parties or for good cause shown. The agency may remand the matter for further evidentiary hearings if further factual development of the record is necessary before issuing a final order. The department will serve a copy of the final order on all parties of record.

APPEAL OF FINAL ORDER TO DISTRICT COURT

A party aggrieved by a final order of the Director is entitled to judicial review in compliance with sections 67-5271 through 67-5279, Idaho Code.

Sincerely,



L. GLEN SAXTON, Chief
Water Allocation Bureau

Enclosure

C: IDWR - Northern Region

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APR 10 1992

Department of Water Resources
APPLICANT'S
Exhibit <u>WB-1</u>
Date Admitted <u>7-16-97</u>

PEND OREILLE RIVER

WATER RIGHT NUMBER 96-08730

SOURCE: PEND OREILLE RIVER

APPLICANT: IDAHO WATER RESOURCE BOARD

DATE FILED: JUNE 15, 1992

MINIMUM STREAMFLOW REACH:

**BEGINNING DOWNSTREAM OF ALBENI FALLS
DAM IN SECTION 29, T56N, R05W AND
EXTENDING DOWNSTREAM APPROXIMATELY 2.4
MILES TO THE IDAHO - WASHINGTON STATE
LINE ON THE WEST EDGE OF SECTIONS 13 & 24,
T56N, R06W, B.M., BONNER CO.**

PERIOD OF USE: RATE OF FLOW

JANUARY 1 TO DECEMBER 31: 10,655 CFS

PURPOSE:

**INSTREAM FLOW FOR THE PROTECTION OF FISH
AND WILDLIFE HABITAT, AQUATIC LIFE, AND
RECREATIONAL VALUES.**

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APR 10 1998**

WATER RIGHT SUMMARY

SOURCE LISTED AS PEND OREILLE RIVER

POWER RIGHTS AT DAM

8,000 CFS

RIGHTS IN THE MINIMUM STREAMFLOW REACH

1.9 CFS

**RIGHTS UPSTREAM OF THE MINIMUM STREAMFLOW
REACH**

23.4 CFS

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APR 10 1998

IN DEFENSE OF IDAHO'S WATER

A Report to Governor Cecil D. Andrus

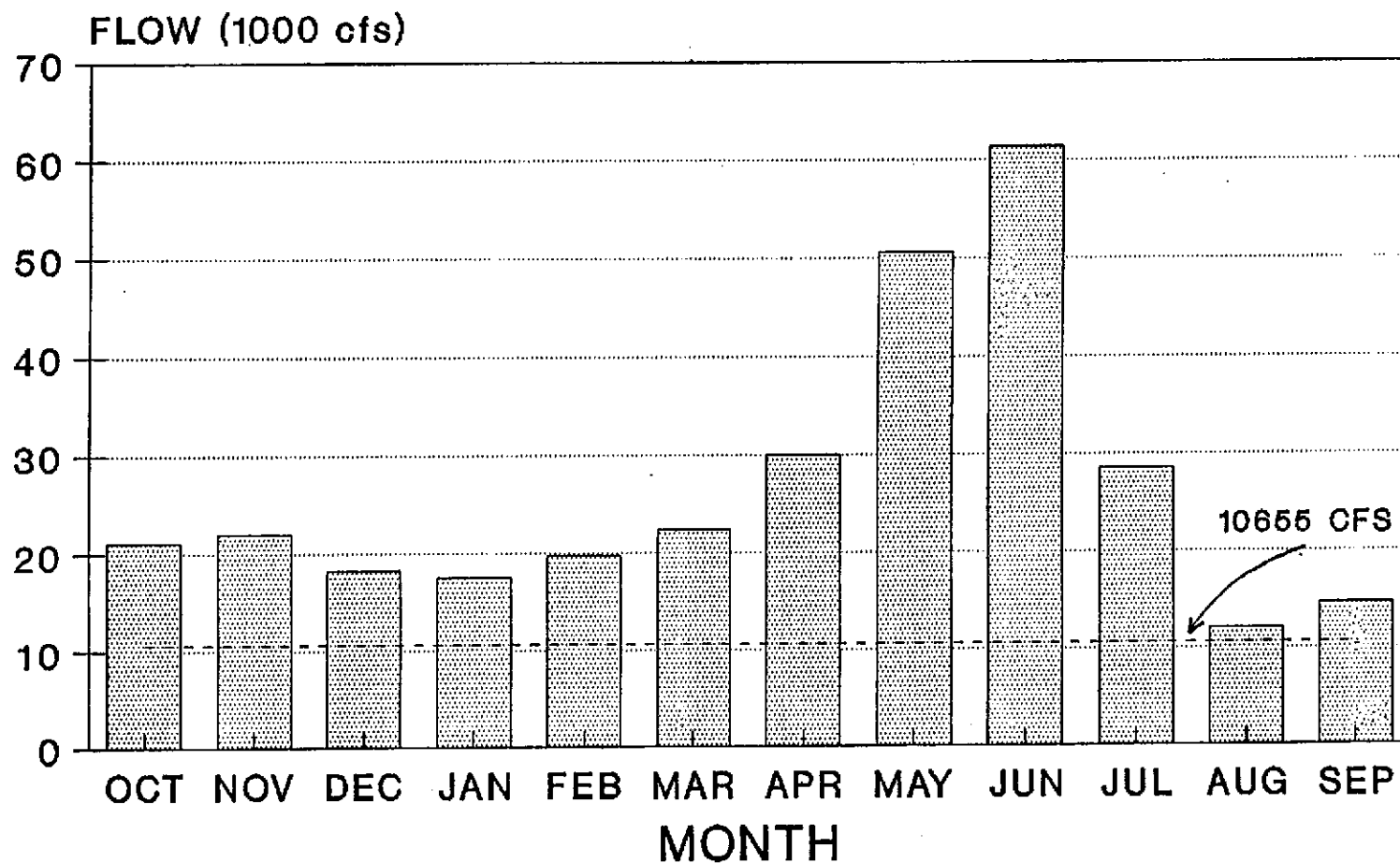
Prepared by

**Ray Rigby
John Rosholt
Scott Reed
A. Kenneth Dunn
Brian Donesley
Reed Hansen
Gene Gray
J. D. Williams
R. Keith Higginson**

September 1991

**MICROFILMED
APR 10 1998**

PEND OREILLE RIVER AT NEWPORT, WA

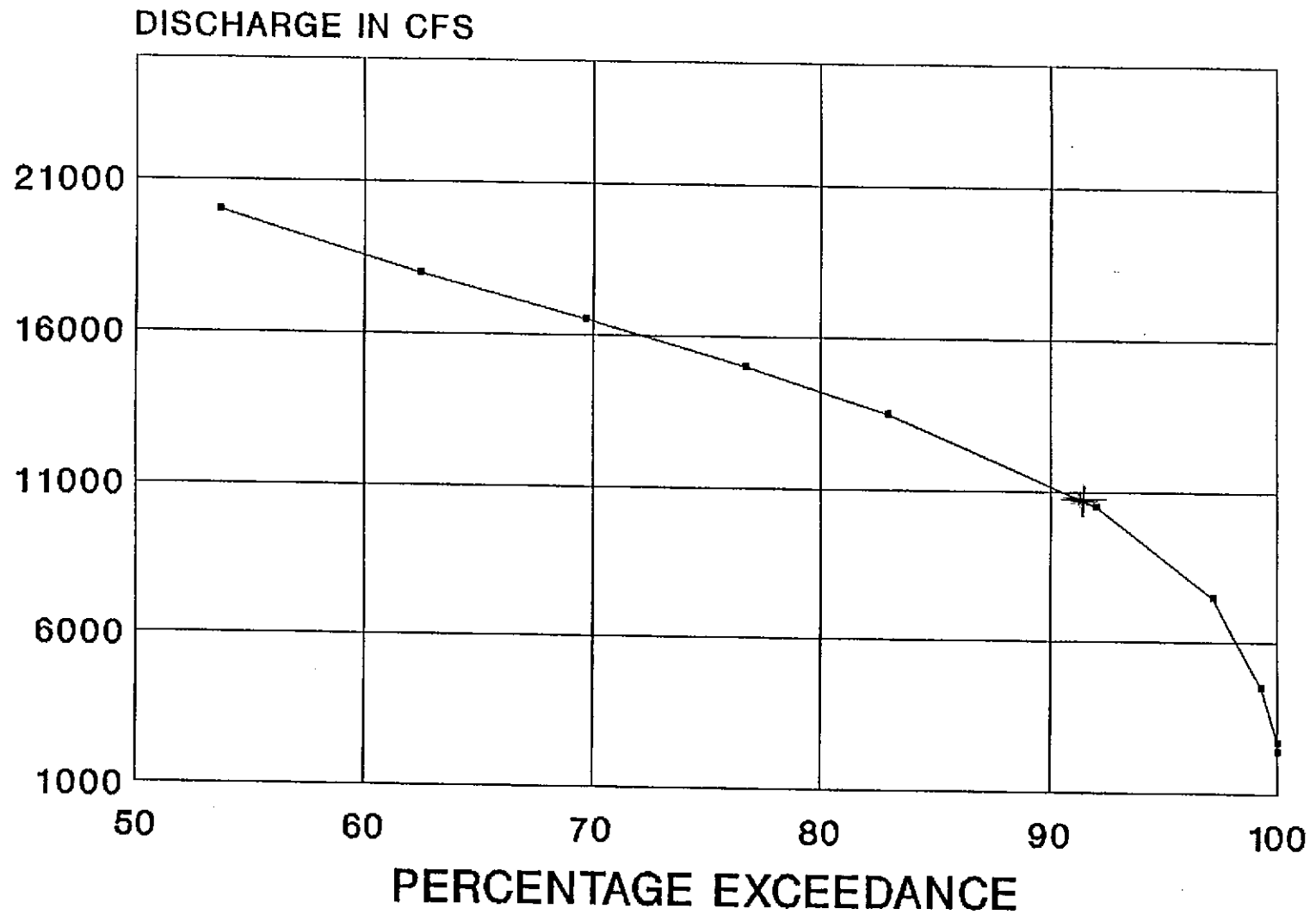


█ Average Monthly Flow ---- Instream Flow

Average Annual Flow = 26,638 CFS

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APR 10 1998

FLOW DURATION CURVE PEND OREILLE RIVER AT NEWPORT, WA



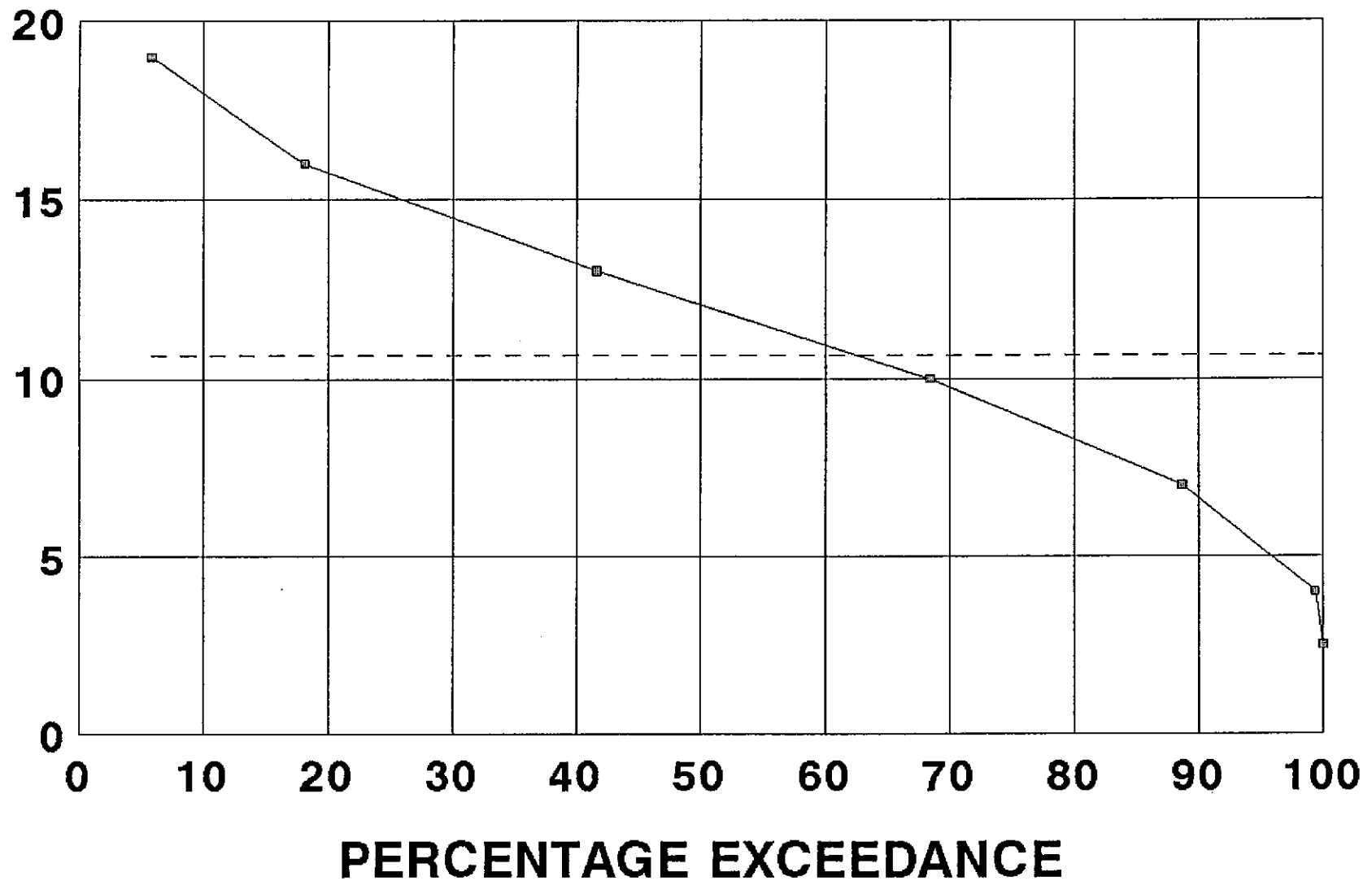
PERIOD 1953-90

MACTO/PLM/ED
APR 10 1998

FLOW DURATION CURVE, AUGUST

PEND OREILLE RIVER AT NEWPORT, WA

DISCHARGE IN CFS (Thousands)



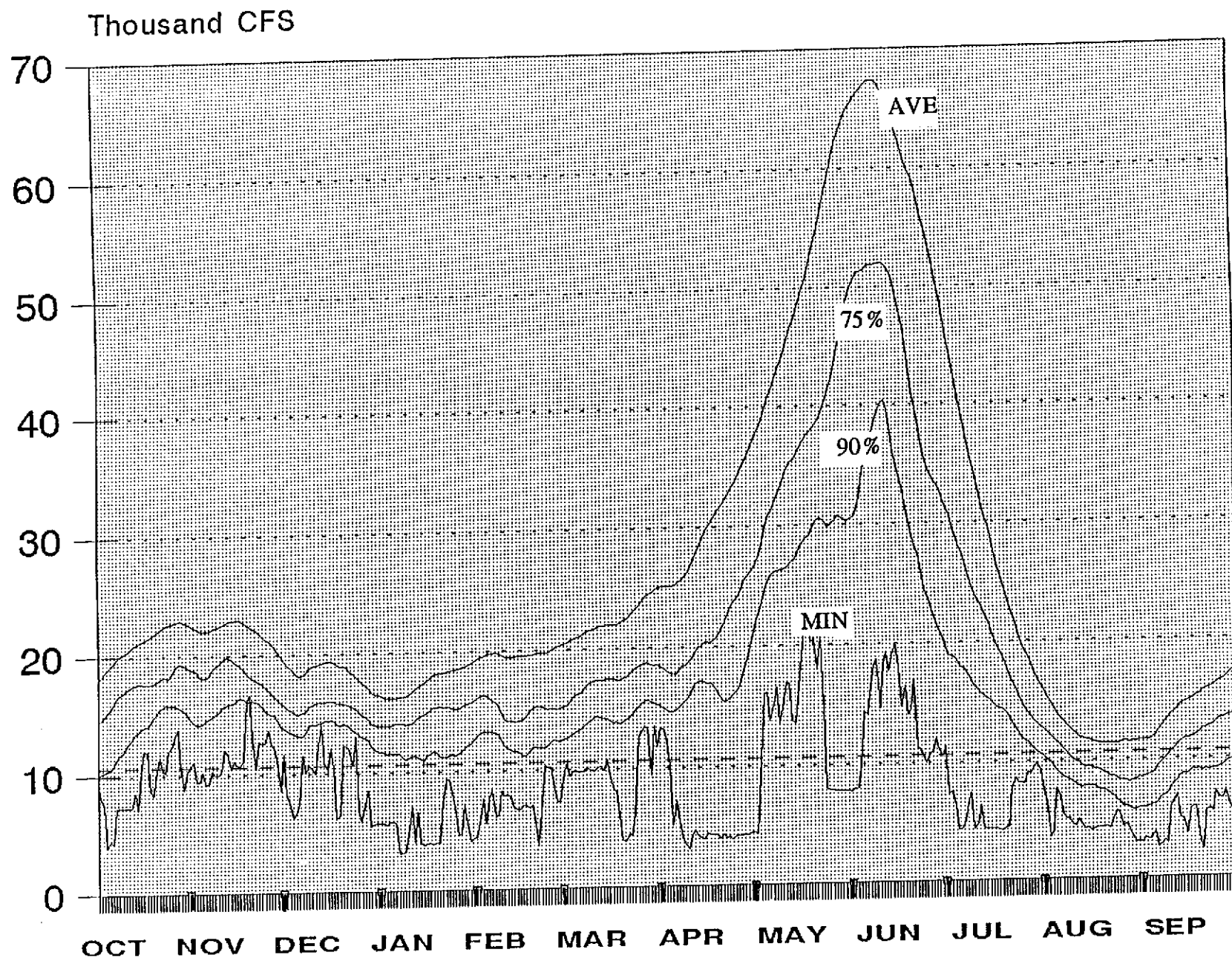
PERIOD 1953-90

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APR 10 1992

PEND OREILLE RIVER AT NEWPORT, WA

SUMMARY HYDROGRAPH PERIOD OF RECORD 1953-90

APR 10 1998
PHOTO-DUPLICATION



Pend Oreille River Water Rights

Priority Later in Time	Water Right Numbers	Use	From	To	Diversion Rate	Diversion Volume	Township	Range	Section	Stage	Priority Date	Total Diversion Rate	Total Diversion Volume
Water Rights On the Pend Oreille River Upstream of the Minimum Stream Flow Reach													
	9602194	IRRIGATION	00/00	00/00	0.7	0	56 N	3 W	31	L	9/4/51	0.7	0
	9602198	IRRIGATION	00/00	00/00	0.02	0	57 N	2 W	35	L	1/2/52	0.02	0
	9602198	DOMESTIC	00/00	00/00	0	0	57 N	2 W	35	L	1/2/52	0.02	0
	9602202	IRRIGATION	4/1	10/31	0.18	60	55 N	4 W	3	L	5/23/52	0.18	60
	9602204	IRRIGATION	00/00	00/00	0.27	0	56 N	3 W	31	L	6/18/52	0.27	0
	9602222	IRRIGATION	00/00	00/00	0.12	0	57 N	2 W	32	L	2/12/53	0.12	0
	9602238	IRRIGATION	00/00	00/00	0.62	0	56 N	3 W	16	L	7/1/55	0.62	0
	9602245	IRRIGATION	00/00	00/00	0.25	0	56 N	3 W	3	L	6/25/56	0.25	0
	9602246	IRRIGATION	3/15	11/15	0.08	0	57 N	2 W	29	L	4/17/57	0.08	12
	9602257	IRRIGATION	3/15	11/15	0.49	105	56 N	3 W	32	L	5/19/58	0.49	105
	9602258	IRRIGATION	00/00	00/00	0.42	0	56 N	3 W	9	L	3/21/60	0.42	0
	9602258	STOCKWATER	00/00	00/00	0	0	56 N	3 W	9	L	3/21/60	0.42	0
	9602309	IRRIGATION	4/1	11/1	0.45	69	56 N	4 W	36	L	10/30/66	0.45	69
	9604028	IRRIGATION	3/15	11/15	0.8	0	55 N	4 W	4	S	8/1/66	0.8	0
	9604192	DOMESTIC	1/1	12/31	0.04	0	56 N	3 W	9	S	5/1/70	0.04	0
	9604319	IRRIGATION	5/20	9/15	0.2	0	56 N	5 W	28	S	4/1/59	0.2	0
	9604406	IRRIGATION	3/15	11/15	0.4	0	56 N	3 W	31	S	6/21/70	0.4	0
	9604410	DOMESTIC	1/1	12/31	0.04	0	56 N	5 W	26	S	6/1/69	0.04	0
	9604465	IRRIGATION	3/15	11/15	0.02	0	57 N	2 W	29	S	4/1/64	0.02	0
	9604471	IRRIGATION	3/15	11/15	0.03	0	57 N	2 W	29	S	6/1/58	0.03	0
	9604489	IRRIGATION	3/15	11/15	0.02	0	57 N	2 W	29	S	6/1/55	0.02	0

Department of Water Resources
APPLICANT'S
Exhibit WB-2
Date Admitted 7-16-97

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Pend Oreille River Water Rights

Priority Later in Time	Water Right Numbers	Use	From	To	Diversion Rate	Diversion Volume	Township	Range	Section	Stage	Priority Date	Total Diversion Rate	Total Diversion Volume
	9607253	DOMESTIC	1/1	12/31	0.04	1.2	55 N	4 W	3	L	2/8/74	0.2	1.2
	9607253	FIRE PROTECTION	1/1	12/31	0.2	0	55 N	4 W	3	L	2/8/74	0.2	1.2
	9607256	IRRIGATION	3/15	11/15	0.01	1.5	56 N	5 W	29	L	2/13/74	0.04	2.7
	9607256	DOMESTIC	1/1	12/31	0.03	1.2	56 N	5 W	29	L	2/13/74	0.04	2.7
	9607338	IRRIGATION	3/15	11/15	0.28	75	56 N	3 W	31	L	10/9/74	0.28	75
	9607384	IRRIGATION	5/15	9/15	0.02	0.8	55 N	4 W	4	L	7/22/75	0.02	0.8
	9607454	INDUSTRIAL	1/1	12/31	0.14	46.5	56 N	3 W	31	L	6/18/76	0.14	46.5
	9607502	DOMESTIC	1/1	12/31	0.04	1.2	56 N	3 W	9	L	2/15/77	0.04	1.2
	9607533	DOMESTIC	6/15	9/15	0.02	0.6	57 N	2 W	32	L	4/29/77	0.02	0.6
	9607549	IRRIGATION	3/15	11/15	0.02	3	55 N	4 W	3	L	5/12/77	0.04	4.2
	9607549	DOMESTIC	1/1	12/31	0.04	1.2	55 N	4 W	3	L	5/12/77	0.04	4.2
	9607556	DOMESTIC	6/1	10/1	0.04	1.2	57 N	2 W	22	L	5/31/77	0.04	1.2
	9607584	DOMESTIC	3/15	11/15	0.02	0.6	57 N	2 W	32	L	7/25/77	0.02	0.6
	9607606	DOMESTIC	4/1	11/1	0.02	1.2	56 N	5 W	29	L	8/25/77	0.02	1.2
	9607616	INDUSTRIAL	1/1	12/31	0.47	23.2	56 N	3 W	31	L	10/18/77	0.47	186.4
	9607616	DOMESTIC	1/1	12/31	0.47	163.2	56 N	3 W	31	L	10/18/77	0.47	186.4
	9607768	DOMESTIC	1/1	12/31	0.03	1.2	56 N	3 W	29	L	2/16/79	0.03	1.2
	9607767	DOMESTIC	1/1	12/31	0.05	2.4	57 N	3 W	36	L	3/19/79	0.05	2.4
	9607777	IRRIGATION	3/15	11/15	0.03	3.5	57 N	3 W	26	L	4/26/79	0.07	4.7
	9607777	DOMESTIC	1/1	12/31	0.04	1.2	57 N	3 W	26	L	4/26/79	0.07	4.7
	9607815	IRRIGATION	3/15	11/15	0.42	144.9	56 N	3 W	9	L	8/20/79	0.42	144.9
	9607816	DOMESTIC	4/1	11/1	0.02	0.6	57 N	3 W	26	L	8/21/79	0.02	0.6
	9607912	IRRIGATION	4/1	11/15	0.07	18	55 N	4 W	2	L	10/31/80	0.11	18.8
	9607912	STOCKWATER	1/1	12/31	0.02	0.2	55 N	4 W	2	L	10/31/80	0.11	18.8
	9607912	DOMESTIC	1/1	12/31	0.04	0.6	55 N	4 W	2	L	10/31/80	0.11	18.8
	9607920	DOMESTIC	1/1	12/31	0.15	34.8	57 N	3 W	34	L	12/13/80	0.15	34.8

Priority Later In Time	Water Right Numbers	Use	From	To	Diversion Rate	Diversion Volume	Township	Range	Section	Stage	Priority Date	Total Diversion Rate	Total Diversion Volume
	9607928	DOMESTIC	1/1	12/31	0.04	1.2	55 N	4 W	3	L	1/20/81	0.04	1.2
	9607958	IRRIGATION	3/15	11/15	0.02	2.4	56 N	3 W	9	L	4/24/81	0.04	3
	9607958	DOMESTIC	1/1	12/31	0.04	0.6	56 N	3 W	9	L	4/24/81	0.04	3
	9607978	IRRIGATION	4/1	11/1	0.06	6	57 N	2 W	36	L	7/2/81	0.06	6
	9608077	DOMESTIC	6/1	10/1	0.02	0.6	57 N	2 W	32	L	6/30/82	0.02	0.6
	9608124	IRRIGATION	4/15	11/1	0.03	3	57 N	2 W	34	L	11/24/82	0.03	3
	9608129	DOMESTIC	1/1	12/31	0.04	0.6	56 N	3 W	4	L	12/17/82	0.04	0.6
	9608140	IRRIGATION	4/1	10/15	0.03	6	55 N	4 W	3	L	2/4/83	0.04	6.6
	9608140	DOMESTIC	1/1	12/31	0.02	0.6	55 N	4 W	3	L	2/4/83	0.04	6.6
	9608161	IRRIGATION	4/1	11/1	0.06	9	55 N	4 W	2	L	3/15/83	0.06	9
	9608271	IRRIGATION	3/15	11/15	0.03	3	56 N	3 W	4	L	6/23/83	0.03	3
	9608311	IRRIGATION	3/15	11/15	0.03	3	56 N	3 W	4	L	6/30/83	0.03	3
	9608364	IRRIGATION	4/1	11/1	0.03	6	56 N	5 W	25	L	8/26/83	0.07	6.6
	9608364	DOMESTIC	1/1	12/31	0.04	0.6	56 N	5 W	25	L	8/26/83	0.07	6.6
	9608414	IRRIGATION	6/1	9/30	0.08	0	55 N	4 W	4	P	8/30/84	0.12	0
	9608414	DOMESTIC	4/1	11/30	0.04	0	55 N	4 W	4	P	8/30/84	0.12	0
	9608457	DOMESTIC	1/1	12/31	0.04	1.2	56 N	3 W	9	L	5/1/86	0.04	1.2
	9608489	IRRIGATION	3/15	11/15	0.03	1.5	56 N	3 W	30	L	6/1/87	0.03	1.5
	9608489	FIRE PROTECTION	1/1	12/31	0.03	0	56 N	3 W	30	L	6/1/87	0.03	1.5
	9608524	IRRIGATION	3/15	11/15	0.18	0	56 N	2 W	6	P	7/5/88	0.18	0
	9608592	MUNICIPAL	1/1	12/31	0.23	0	57 N	2 W	32	L	3/15/90	0.23	0
	9608611	IRRIGATION	4/1	10/15	0.06	6	55 N	4 W	3	L	8/7/90	0.08	6.8
	9608611	STOCKWATER	1/1	12/31	0.02	0.2	55 N	4 W	3	L	8/7/90	0.08	6.8
	9608611	DOMESTIC	1/1	12/31	0.02	0.6	55 N	4 W	3	L	8/7/90	0.08	6.8
	9608659	IRRIGATION	3/15	11/15	0.02	4.5	56 N	3 W	4	L	8/27/91	0.02	4.5
	9608675	DOMESTIC	1/1	12/31	0.04	1.2	56 N	4 W	36	L	11/13/91	0.04	1.2
X	9608723	IRRIGATION	3/15	11/15	0.06	7.5	57 N	2 W	32	L	10/26/92	0.06	7.5

Priority Later in Time	Water Numbers	Use	From	To	Diversion Rate	Diversion Volume	Township	Range	Section	Stage	Priority Date	Total Diversion Rate	Total Diversion Volume
X	9608758	DOMESTIC	1/1	12/31	0.04	2.4	55 N	4 W	3	L	4/30/93	0.04	2.4
X	9608763	IRRIGATION	3/15	11/15	0.04	4.5	56 N	3 W	31	L	6/7/93	0.04	5.1
X	9608763	DOMESTIC	1/1	12/31	0.02	0.6	56 N	3 W	31	L	6/7/93	0.04	5.1
X	9608782	DOMESTIC	1/1	12/31	0.04	1.2	55 N	4 W	3	L	11/22/93	0.04	1.2
X	9608788	IRRIGATION	3/15	11/15	0.06	9	56 N	2 W	6	L	3/1/94	0.06	9
X	9608793	IRRIGATION	3/15	11/15	0.03	1.5	57 N	2 W	22	L	3/11/94	0.03	1.5
X	9608814	IRRIGATION	3/15	11/15	0.04	0	57 N	2 W	22	P	8/16/94	0.04	0
X	9608856	IRRIGATION	3/15	11/15	0.03	0	56 N	4 W	36	P	3/20/95	0.07	0
X	9608856	DOMESTIC	1/1	12/31	0.04	0	56 N	4 W	36	P	3/20/95	0.07	0
X	9608858	FIRE PROTECTION	6/1	10/31	2	0	57 N	2 W	34	P	4/3/95	2	0
X	9608859	IRRIGATION	3/15	11/15	0.02	0.9	57 N	2 W	34	L	4/3/95	0.04	0.9
X	9608859	FIRE PROTECTION	1/1	12/31	0.04	0	57 N	2 W	34	L	4/3/95	0.04	0.9
X	9608895	IRRIGATION	3/15	11/15	0.03	3	56 N	3 W	32	L	8/17/95	0.03	3
X	9608896	IRRIGATION	3/15	11/15	0.6	0	56 N	3 W	20	P	8/23/95	0.6	0
X	9608896	IRRIGATION FROM STORAGE	3/15	11/15	0	56.2	56 N	3 W	20	P	8/23/95	0.6	0
X	9608896	STOCKWATER	1/1	12/31	0.02	0	56 N	3 W	20	P	8/23/95	0.6	0
X	9608896	STOCKWATER STORAGE	1/1	12/31	0	56.2	56 N	3 W	20	P	8/23/95	0.6	0
X	9608896	STOCKWATER FROM STORAGE	1/1	12/31	0	56.2	56 N	3 W	20	P	8/23/95	0.6	0
X	9608896	DIVERSION TO STORAGE	1/1	12/31	0.4	0	56 N	3 W	20	P	8/23/95	0.6	0
X	9608899	DOMESTIC	1/1	12/31	0.04	0	56 N	3 W	9	P	8/23/95	0.04	0
X	9608921	IRRIGATION	3/15	11/15	0.03	0	56 N	3 W	31	P	4/3/96	0.03	0
X	9608957	DOMESTIC	3/15	11/15	0.04	0	56 N	3 W	9	A	4/3/97	0.04	0
	9704222	IRRIGATION	04/01	10/31	0.607	0	56 N	5 W	29	S	1/1/58	1.058	0
	9707170	IRRIGATION	05/01	11/01	1.34	300	56 N	4 W	32	L	11/6/78	1.34	300
	9707093	IRRIGATION	03/15	11/15	0.02	3	56 N	5 W	29	L	2/25/77	0.02	3
	9707194	IRRIGATION	04/01	11/01	0.03	3	56 N	4 W	29	L	6/28/82	0.03	3
	9702056	IRRIGATION STORAGE	01/01	12/31	0	90000	56 N	5 W	29	P	6/9/43	0	1615000

Pend Oreille River Water Rights

Priority Later in Time	Water Right Numbers	Use	From	To	Diversion Rate	Diversion Volume	Township	Range	Section	Stage	Priority Date	Total Diversion Rate	Total Diversion Volume
	9702056	IRRIGATION FROM STORAGE	03/15	11/15	0	90000	56 N	5 W	29	P	6/9/43	0	1615000
	9704222	COMMERCIAL	04/01	10/31	0.445	0	56 N	5 W	29	S	1/1/58	1.058	0
	9702056	POWER	01/01	12/31	8000	0	56 N	5 W	29	P	6/9/43	0	1615000
	9704230	MUNICIPAL	01/01	12/31	3.21	0	56 N	5 W	25	S	1/1/25	3.21	0
	9707066	MUNICIPAL	01/01	12/31	2.79	0	56 N	5 W	25	L	6/24/75	2.79	0
	9704230	DOMESTIC	01/01	12/31	3.21	0	56 N	5 W	25	S	1/1/25	3.21	0
	9707019	DOMESTIC	01/01	12/31	0.02	1.2	56 N	4 W	32	L	6/23/71	0.02	1.2
	9704219	DOMESTIC	01/01	12/31	0.04	0	56 N	5 W	26	S	1/1/69	0.04	0
	9704222	FIRE PROTECTION	04/01	10/31	0.006	0	56 N	5 W	29	S	1/1/58	1.058	0
Water Rights In The Minimum Stream Flow Reach													
	9702037	IRRIGATION	04/01	11/01	0.25	162	56 N	6 W	24	L	10/10/52	0.25	162
	9702042	IRRIGATION	00/00	00/00	0.41	0	56 N	6 W	13	L	4/12/54	0.41	0
	9702037	IRRIGATION	04/01	11/01	0.25	162	56 N	6 W	24	L	10/10/52	0.25	162
	9704017	MUNICIPAL	01/01	12/31	1	0	56 N	6 W	24	S	10/1/38	1	0
Minimum Stream Flow Application													
	9608730	MINIMUM INSTREAM FLOW	1/1	12/31	10655	0	56 N	6 W	24	A	6/15/92	10655	0
	9608730	MINIMUM INSTREAM FLOW	1/1	12/31	10655	0	56 N	6 W	13	A	6/15/92	10655	0
	9608730	MINIMUM INSTREAM FLOW	1/1	12/31	10655	0	56 N	6 W	13	A	6/15/92	10655	0
	9608730	MINIMUM INSTREAM FLOW	1/1	12/31	10655	0	56 N	5 W	29	A	6/15/92	10655	0
	9608730	MINIMUM INSTREAM FLOW	1/1	12/31	10655	0	56 N	6 W	24	A	6/15/92	10655	0
	9608730	MINIMUM INSTREAM FLOW	1/1	12/31	10655	0	56 N	6 W	24	A	6/15/92	10655	0

Table 1

Department of Water Resources
APPLICANT'S

Exhibit

IDF6 -1

Date Admitted

7-16-97

NKH

Instream Flow Regimens for Fish, Wildlife, Recreation and Related Environmental Resources

Narrative Description of Flows ^{1/}	Fisheries Classification ^{2/}	Recommended Base Flow Regimens	
		Oct.-Mar.	: Apr.-Sept.
Flushing or Maximum	--	200% of the average flow ^{3/}	
Optimum Range	--	60%-100% of the average flow ^{4/}	
Outstanding	I	40%	60%
Excellent	II	30%	50%
Good	III	20%	40%
Fair or Degrading	IV	10%	30%
Poor or Minimum	--	10%	10%
Severe Degradation	--	10% of average flow to zero flow	

^{1/}Most appropriate description of the general condition of the streamflow for all the parameters listed in the title of this paper.

^{2/}Roman numeral ratings for Fisheries Classification Systems like those developed for the States of Idaho, Montana, West Virginia, Wyoming, and the Delaware River Basin Comprehensive Study by the U.S. Fish and Wildlife Service. ^{5, 11, 14, 19, 26} The base flow regimens outlined above in columns 3 and 4 to maintain the respective designated classes, are judged to be as reliable and valid as the classification systems themselves. These recommended flows generally apply very well to both cold and warm water streams. Regimens should be reversed or altered to fit different hydrologic cycles, like the Salmonid streams on the West Coast, or to favor species like the fall spawning brown trout. Flows may be refined further by specifically matching them to vital periods of the life cycle of fishes, like migration, spawning, incubation, growth, etc. Use of the Montana Method on spring creeks or streams that have a very uniform flow year-around may provide unprecedented low-flow regimens at the minimum or base flow levels.

^{3/}The average flow will usually fill the active stream channel approximately 1/3 full or to the line of permanent terrestrial vegetation, while 3 times the average flow will often fill the active channel approximately to the point of spilling out on the first bench of the flood plain. ¹⁵ Twice the average flow will produce effective depths and velocities within the stream channel for moving silt, sediment and other bed load material without doing extensive damage to the banks and riparian vegetation. Twice the average flow is a good maximum flow recommendation as well as a good flushing flow (Fig. 1).

^{4/}Optimum is a nebulous term; however, this flow range covers that definition best for all the parameters of this paper collectively.

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Pend Oreille River Management

Department of Water Resources
APPLICANT'S

Exhibit IDFG - 2

Date Admitted 7-16-97 *YH*

Season

Open all year

Limit

General bag and size
limits; 6 trout; 5 bass,
none under 12"

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APR 10 1998

PEND OREILLE RIVER AT NEWPORT, WA

(1953-90) 12395500

FLOW DURATION TABLE FOR STATION 12395500

FLOW	PERCENT = / +	FLOW	PERCENT = / +	FLOW	PERCENT = / +	FLOW	PERCENT = / +	FLOW	PERCENT = / +	FLOW	PERCENT = / +
47000.	12.49	46000.	12.88	45000.	13.28	44000.	13.70	43000.	14.23	42000.	14.68
41000.	15.32	40000.	15.98	39000.	16.35	38000.	16.77	37000.	17.49	36000.	18.43
35000.	19.20	34000.	19.86	33000.	20.69	32000.	21.66	31000.	22.81	30000.	23.89
29000.	25.34	28000.	27.41	27000.	29.39	26000.	31.85	25000.	35.54	24000.	39.01
23000.	41.90	22000.	45.22	21000.	49.73	20000.	53.60	19000.	58.08	18000.	62.43
17500.	64.63	17000.	67.17	16500.	69.67	16000.	72.13	15500.	74.62	15000.	76.70
14500.	78.85	14000.	80.88	13500.	82.93	13000.	84.95	12500.	86.73	12000.	88.29
11500.	89.43	11000.	90.58	10500.	91.99	10000.	93.07	9500.	93.88	9000.	94.83
8500.	95.57	8000.	96.56	7500.	97.12	7000.	97.73	6500.	98.14	6000.	98.50
5500.	98.86	5000.	99.07	4500.	99.26	4000.	99.71	3500.	99.88	3000.	99.95
2900.	99.97	2800.	99.99	2700.	99.99	2600.	99.99	2500.	99.99	2400.	100.00
2300.	100.00	2200.	100.00	2100.	100.00	2000.	100.00	1900.	100.00	1800.	100.00
1700.	100.00	1600.	100.00	1500.	100.00	1400.	100.00	1300.	100.00	1200.	100.00
1100.	100.00	1000.	100.00								

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 APR 10 1998

IDAHO DEPARTMENT OF WATER RESOURCES

SUMMARY HYDROGRAPH DATA

PAGE 1

PEND OREILLE RIVER AT NEWPORT, WA

(1953-90) 12395500

***** MONTHLY FLOW DATA *****								***** YEARLY FLOW DATA *****					
MONTH	YEAR	MAXIMUM	DAY	MINIMUM	DAY	AVERAGE	COUNT	MAXIMUM	DAY	MINIMUM	DAY	AVERAGE	COUNT
OCT	1952	23000.	28	7300.	5	13284.	31						
NOV	1952	27000.	15	22500.	3	25083.	30						
DEC	1952	21000.	1	12200.	31	15000.	31						
JAN	1953	17300.	31	11700.	8	14742.	31						
FEB	1953	20100.	5	14900.	27	17793.	28						
MAR	1953	15600.	22	6160.	21	13852.	31						
APR	1953	23500.	30	12500.	7	15153.	30						
MAY	1953	50000.	31	24700.	1	37677.	31						
JUN	1953	96100.	16	30900.	27	68397.	30						
JUL	1953	48600.	5	15300.	27	30174.	31						
AUG	1953	17200.	18	6560.	31	11172.	31						
SEP	1953	26000.	27	3850.	6	13736.	30	96100.	16 JUN	3850.	6 SEP	22965.	365
OCT	1953	28000.	28	10600.	31	22381.	31						
NOV	1953	28200.	4	15500.	30	20593.	30						
DEC	1953	15700.	24	13500.	28	14945.	31						
JAN	1954	14700.	1	9500.	16	12448.	31						
FEB	1954	19600.	27	12700.	4	14654.	28						
MAR	1954	22400.	13	17400.	31	20584.	31						
APR	1954	35600.	30	16400.	1	23573.	30						
MAY	1954	101000.	27	35300.	4	65565.	31						
JUN	1954	95600.	1	65400.	29	77803.	30						
JUL	1954	80900.	8	7800.	31	48732.	31						
AUG	1954	17500.	16	11400.	1	14623.	31						
SEP	1954	19800.	3	7660.	22	12324.	30	101000.	27 MAY	7660.	22 SEP	29087.	365
OCT	1954	17900.	23	8330.	5	13065.	31						
NOV	1954	26500.	8	11000.	5	21147.	30						
DEC	1954	19300.	12	16000.	3	18419.	31						
JAN	1955	19200.	15	15400.	5	18126.	31						
FEB	1955	19100.	9	17800.	28	18925.	28						
MAR	1955	36700.	31	12400.	3	20129.	31						
APR	1955	40000.	1	16100.	19	25780.	30						
MAY	1955	52600.	26	19700.	12	35581.	31						
JUN	1955	78500.	20	51600.	1	63433.	30						
JUL	1955	63000.	1	22100.	28	46632.	31						
AUG	1955	22200.	7	7020.	31	12001.	31						
SEP	1955	25800.	24	7700.	5	14917.	30	78500.	20 JUN	7020.	31 AUG	25673.	365
OCT	1955	28700.	10	10200.	23	17681.	31						
NOV	1955	45200.	16	9200.	5	20515.	30						
DEC	1955	28400.	23	15200.	11	22977.	31						
JAN	1956	26200.	8	17200.	31	21716.	31						
FEB	1956	31400.	5	8400.	18	23266.	29						
MAR	1956	51100.	28	12800.	17	26535.	31						
APR	1956	82400.	26	31100.	7	56937.	30						
MAY	1956	123000.	31	63200.	8	83732.	31						
JUN	1956	127000.	5	48000.	30	89980.	30						
JUL	1956	48000.	2	16100.	31	30961.	31						
AUG	1956	16800.	1	7500.	25	11536.	31						
SEP	1956	27300.	20	6210.	7	16850.	30	127000.	5 JUN	6210.	7 SEP	35171.	366
OCT	1956	28500.	30	11500.	3	15510.	31						
NOV	1956	28300.	20	15500.	27	23290.	30						

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PEND OREILLE RIVER AT NEWPORT, WA

(1953-90) 12395500

MONTH	YEAR	***** MONTHLY FLOW DATA *****						***** YEARLY FLOW DATA *****					
		MAXIMUM	DAY	MINIMUM	DAY	AVERAGE	COUNT	MAXIMUM	DAY	MINIMUM	DAY	AVERAGE	COUNT
DEC	1956	28300.	18	14300.	1	21245.	31						
JAN	1957	23300.	31	12800.	29	19361.	31						
FEB	1957	27200.	2	11900.	12	17671.	28						
MAR	1957	26600.	6	13000.	28	19506.	31						
APR	1957	31500.	30	19200.	2	22643.	30						
MAY	1957	97400.	25	36500.	1	67313.	31						
JUN	1957	85500.	8	29600.	30	57000.	30						
JUL	1957	32500.	2	9060.	30	18387.	31						
AUG	1957	13100.	4	5650.	25	8717.	31						
SEP	1957	26400.	9	3860.	2	14124.	30	97400. 25 MAY		3860. 2 SEP		25418.	365
OCT	1957	25400.	28	12100.	3	18790.	31						
NOV	1957	29500.	29	13800.	15	25307.	30						
DEC	1957	28100.	1	12100.	31	20377.	31						
JAN	1958	18000.	2	7800.	4	12561.	31						
FEB	1958	13900.	17	8680.	4	10914.	28						
MAR	1958	26600.	7	10300.	2	20810.	31						
APR	1958	26300.	27	13500.	5	21380.	30						
MAY	1958	93400.	29	25400.	3	53781.	31						
JUN	1958	77100.	1	28900.	30	49307.	30						
JUL	1958	29200.	1	10000.	26	18713.	31						
AUG	1958	13700.	1	3780.	31	6902.	31						
SEP	1958	11800.	12	4840.	1	9411.	30	93400. 29 MAY		3780. 31 AUG		22405.	365
OCT	1958	20000.	31	8190.	6	12442.	31						
NOV	1958	25900.	13	12600.	23	18633.	30						
DEC	1958	33000.	14	15600.	1	23365.	31						
JAN	1959	39600.	27	16500.	5	27687.	31						
FEB	1959	34000.	21	20900.	26	29539.	28						
MAR	1959	26900.	31	17000.	22	20984.	31						
APR	1959	62800.	30	5150.	4	38064.	30						
MAY	1959	74700.	30	51900.	15	68042.	31						
JUN	1959	100000.	24	73500.	2	91173.	30						
JUL	1959	64600.	1	19800.	26	36997.	31						
AUG	1959	17300.	1	6280.	30	12827.	31						
SEP	1959	28200.	30	10200.	8	17993.	30	100000. 24 JUN		5150. 4 APR		33084.	365
OCT	1959	40100.	31	17300.	4	31332.	31						
NOV	1959	43800.	26	24800.	20	32280.	30						
DEC	1959	28500.	24	12100.	31	23839.	31						
JAN	1960	21000.	14	10100.	1	17419.	31						
FEB	1960	22100.	10	14800.	1	19262.	29						
MAR	1960	45500.	29	16300.	4	27494.	31						
APR	1960	64900.	16	31300.	1	50587.	30						
MAY	1960	69300.	20	31300.	5	57568.	31						
JUN	1960	70000.	7	49200.	27	58107.	30						
JUL	1960	46700.	1	11000.	30	27087.	31						
AUG	1960	16800.	3	4180.	28	11169.	31						
SEP	1960	13500.	15	7170.	28	10346.	30	70000. 7 JUN		4180. 28 AUG		30523.	366
OCT	1960	19200.	26	9100.	8	14452.	31						
NOV	1960	28800.	26	9420.	3	19452.	30						
DEC	1960	19500.	21	6150.	17	13477.	31						
JAN	1961	17500.	18	8360.	1	13212.	31						

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PEND OREILLE RIVER AT NEWPORT, WA

(1953-90) 12395500

***** MONTHLY FLOW DATA *****								***** YEARLY FLOW DATA *****					
MONTH	YEAR	MAXIMUM	DAY	MINIMUM	DAY	AVERAGE	COUNT	MAXIMUM	DAY	MINIMUM	DAY	AVERAGE	COUNT
FEB	1961	33100.	25	11700.	21	22286.	28						
MAR	1961	33700.	21	24200.	9	28235.	31						
APR	1961	43300.	30	31000.	16	36897.	30						
MAY	1961	95400.	31	44300.	1	65174.	31						
JUN	1961	114000.	8	33800.	30	81210.	30						
JUL	1961	30500.	1	7460.	31	19863.	31						
AUG	1961	11900.	21	2940.	31	7831.	31						
SEP	1961	18800.	27	2590.	5	7907.	30	114000.	8 JUN	2590.	5 SEP	27445.	365
OCT	1961	27000.	18	7140.	14	17971.	31						
NOV	1961	28800.	28	9800.	5	22770.	30						
DEC	1961	21300.	23	6210.	3	16255.	31						
JAN	1962	22500.	21	14200.	3	18897.	31						
FEB	1962	25500.	23	19500.	19	22654.	28						
MAR	1962	24600.	28	13600.	22	20926.	31						
APR	1962	52800.	30	12900.	3	33197.	30						
MAY	1962	79400.	31	51600.	10	60403.	31						
JUN	1962	80500.	4	28400.	20	50747.	30						
JUL	1962	35000.	2	12000.	30	22465.	31						
AUG	1962	14400.	1	2940.	29	10207.	31						
SEP	1962	11400.	30	2420.	19	6977.	30	80500.	4 JUN	2420.	19 SEP	25276.	365
OCT	1962	18600.	16	7940.	2	15484.	31						
NOV	1962	27900.	29	12900.	10	18613.	30						
DEC	1962	28500.	20	19200.	5	22403.	31						
JAN	1963	24600.	7	15800.	15	20710.	31						
FEB	1963	35300.	10	18000.	3	28343.	28						
MAR	1963	29300.	25	17400.	10	23700.	31						
APR	1963	37900.	21	26500.	6	32137.	30						
MAY	1963	46000.	5	29000.	17	36310.	31						
JUN	1963	55800.	11	33400.	29	43943.	30						
JUL	1963	57800.	3	12700.	30	26935.	31						
AUG	1963	15300.	14	4660.	26	9438.	31						
SEP	1963	12800.	17	3890.	4	7114.	30	57800.	3 JUL	3890.	4 SEP	23705.	365
OCT	1963	27100.	24	6380.	6	14135.	31						
NOV	1963	21700.	7	11100.	5	17040.	30						
DEC	1963	16200.	24	7320.	2	13295.	31						
JAN	1964	19500.	9	13600.	25	16271.	31						
FEB	1964	21300.	11	7690.	1	17846.	29						
MAR	1964	35000.	11	15200.	31	24668.	31						
APR	1964	28300.	27	17600.	1	23137.	30						
MAY	1964	68600.	27	22100.	1	45877.	31						
JUN	1964	119000.	15	68300.	1	96933.	30						
JUL	1964	64100.	1	16400.	31	37006.	31						
AUG	1964	17300.	5	6340.	22	11993.	31						
SEP	1964	18200.	10	7400.	11	12827.	30	119000.	15 JUN	6340.	22 AUG	27531.	366
OCT	1964	23700.	28	10300.	4	17313.	31						
NOV	1964	31000.	29	14400.	5	22293.	30						
DEC	1964	24200.	18	16000.	21	19677.	31						
JAN	1965	28200.	16	23300.	20	25429.	31						
FEB	1965	33200.	17	27600.	1	31643.	28						
MAR	1965	50700.	24	31500.	31	37229.	31						

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PEND OREILLE RIVER AT NEWPORT, WA

(1953-90) 12395500

***** MONTHLY FLOW DATA *****								***** YEARLY FLOW DATA *****					
MONTH	YEAR	MAXIMUM	DAY	MINIMUM	DAY	AVERAGE	COUNT	MAXIMUM	DAY	MINIMUM	DAY	AVERAGE	COUNT
APR	1965	67500.	30	28800.	3	41957.	30						
MAY	1965	79800.	20	61300.	13	72600.	31						
JUN	1965	85700.	5	53300.	29	75080.	30						
JUL	1965	50000.	1	20300.	30	33729.	31						
AUG	1965	24800.	5	6980.	7	16371.	31						
SEP	1965	23000.	17	10500.	10	16833.	30	85700.	5 JUN	6980.	7 AUG	34147.	365
OCT	1965	25400.	1	15300.	16	19745.	31						
NOV	1965	27800.	30	15500.	4	19537.	30						
DEC	1965	29400.	2	15700.	19	21623.	31						
JAN	1966	22900.	18	14000.	4	18642.	31						
FEB	1966	25600.	17	13400.	26	21000.	28						
MAR	1966	28900.	8	19200.	26	23465.	31						
APR	1966	40900.	14	25300.	28	33843.	30						
MAY	1966	56500.	9	28300.	1	42616.	31						
JUN	1966	51400.	6	32900.	25	44047.	30						
JUL	1966	41000.	1	8920.	27	24133.	31						
AUG	1966	12900.	1	4820.	27	8477.	31						
SEP	1966	27300.	8	9620.	25	17535.	30	56500.	9 MAY	4820.	27 AUG	24539.	365
OCT	1966	27300.	13	11000.	1	21529.	31						
NOV	1966	28200.	1	21100.	16	24450.	30						
DEC	1966	27300.	12	14400.	26	22755.	31						
JAN	1967	23200.	30	14600.	8	19203.	31						
FEB	1967	26700.	17	8390.	12	22411.	28						
MAR	1967	30700.	17	21600.	24	25906.	31						
APR	1967	27600.	26	7800.	23	21877.	30						
MAY	1967	81300.	31	25000.	7	45545.	31						
JUN	1967	105000.	10	50200.	29	89503.	30						
JUL	1967	57900.	1	14100.	29	29923.	31						
AUG	1967	22700.	12	4010.	27	10082.	31						
SEP	1967	25200.	24	6960.	16	13770.	30	105000.	10 JUN	4010.	27 AUG	28873.	365
OCT	1967	28500.	24	18100.	14	24548.	31						
NOV	1967	24000.	1	15000.	2	20260.	30						
DEC	1967	22900.	8	14800.	17	19468.	31						
JAN	1968	24000.	27	16300.	28	20048.	31						
FEB	1968	25100.	28	14700.	18	19472.	29						
MAR	1968	25400.	31	9410.	2	13931.	31						
APR	1968	55600.	14	18200.	6	31780.	30						
MAY	1968	44300.	16	28400.	26	34613.	31						
JUN	1968	62000.	7	31200.	1	50743.	30						
JUL	1968	42600.	1	9700.	31	23297.	31						
AUG	1968	20900.	17	6200.	8	11942.	31						
SEP	1968	25800.	24	8940.	12	18045.	30	62000.	7 JUN	6200.	8 AUG	23969.	366
OCT	1968	28700.	21	18800.	5	25261.	31						
NOV	1968	37300.	20	18300.	3	28680.	30						
DEC	1968	25100.	9	15400.	28	21697.	31						
JAN	1969	27600.	14	15400.	3	21839.	31						
FEB	1969	25600.	8	20500.	1	22764.	28						
MAR	1969	32600.	31	21400.	8	25426.	31						
APR	1969	69800.	30	36200.	1	54923.	30						
MAY	1969	82800.	19	56400.	30	70471.	31						

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PEND OREILLE RIVER AT NEWPORT, WA

(1953-90) 12395500

***** MONTHLY FLOW DATA *****								***** YEARLY FLOW DATA *****					
MONTH	YEAR	MAXIMUM	DAY	MINIMUM	DAY	AVERAGE	COUNT	MAXIMUM	DAY	MINIMUM	DAY	AVERAGE	COUNT
JUN	1969	70800.	2	29500.	17	48557.	30						
JUL	1969	57200.	1	15800.	26	29816.	31						
AUG	1969	22400.	29	11200.	6	14190.	31						
SEP	1969	23700.	21	13200.	2	19143.	30	82800.	19 MAY	11200.	6 AUG	31907.	365
OCT	1969	29000.	27	17600.	3	25394.	31						
NOV	1969	31200.	5	10700.	16	20307.	30						
DEC	1969	20300.	10	9920.	2	15281.	31						
JAN	1970	20000.	16	9670.	22	13749.	31						
FEB	1970	18700.	17	9900.	15	13786.	28						
MAR	1970	23300.	26	12200.	1	19203.	31						
APR	1970	22900.	14	16400.	26	19083.	30						
MAY	1970	76000.	31	16700.	1	47090.	31						
JUN	1970	96000.	9	46100.	30	70630.	30						
JUL	1970	46200.	1	11900.	23	25410.	31						
AUG	1970	21900.	4	10700.	31	15313.	31						
SEP	1970	21900.	27	10500.	2	17540.	30	96000.	9 JUN	9670.	22 JAN	25253.	365
OCT	1970	25000.	3	22000.	10	23432.	31						
NOV	1970	25200.	17	12100.	28	19223.	30						
DEC	1970	22400.	16	13900.	6	17913.	31						
JAN	1971	21500.	16	13300.	5	18029.	31						
FEB	1971	37600.	22	20200.	7	29157.	28						
MAR	1971	35500.	1	14900.	17	22971.	31						
APR	1971	51800.	29	14700.	6	37387.	30						
MAY	1971	96400.	31	50400.	3	79100.	31						
JUN	1971	103000.	3	53500.	22	82563.	30						
JUL	1971	52100.	1	21700.	24	35413.	31						
AUG	1971	21900.	1	6230.	21	13527.	31						
SEP	1971	24100.	29	11300.	8	15197.	30	103000.	3 JUN	6230.	21 AUG	32793.	365
OCT	1971	25300.	28	20000.	6	24142.	31						
NOV	1971	26600.	17	15700.	30	24237.	30						
DEC	1971	24000.	7	13700.	1	18742.	31						
JAN	1972	23000.	25	14800.	27	19194.	31						
FEB	1972	23900.	26	17100.	3	20321.	29						
MAR	1972	54900.	24	24000.	2	38416.	31						
APR	1972	51300.	5	38500.	30	46013.	30						
MAY	1972	97900.	31	36500.	2	64423.	31						
JUN	1972	133000.	12	54700.	30	102450.	30						
JUL	1972	54100.	4	14800.	31	34894.	31						
AUG	1972	19400.	2	7870.	31	14735.	31						
SEP	1972	16700.	20	7680.	4	12850.	30	133000.	12 JUN	7680.	4 SEP	34991.	366
OCT	1972	28300.	16	8930.	1	21862.	31						
NOV	1972	25600.	2	10500.	21	20733.	30						
DEC	1972	26600.	5	10000.	10	16881.	31						
JAN	1973	21600.	5	10800.	1	16055.	31						
FEB	1973	27800.	3	9610.	25	17743.	28						
MAR	1973	25400.	20	13100.	1	22103.	31						
APR	1973	24300.	3	13400.	8	17003.	30						
MAY	1973	26200.	23	13500.	8	20468.	31						
JUN	1973	25100.	1	14600.	9	19727.	30						
JUL	1973	19000.	2	10000.	31	14761.	31						

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PEND OREILLE RIVER AT NEWPORT, WA (1953-90) 12395500

***** MONTHLY FLOW DATA *****								***** YEARLY FLOW DATA *****					
MONTH	YEAR	MAXIMUM	DAY	MINIMUM	DAY	AVERAGE	COUNT	MAXIMUM	DAY	MINIMUM	DAY	AVERAGE	COUNT
AUG	1973	10600.	3	4330.	25	8171.	31						
SEP	1973	17000.	27	8120.	5	11904.	30	28300.	16 OCT	4330.	25 AUG	17280.	365
OCT	1973	22400.	29	13200.	20	18161.	31						
NOV	1973	28200.	15	13900.	21	20197.	30						
DEC	1973	29900.	22	11500.	1	19710.	31						
JAN	1974	51300.	25	10300.	15	26329.	31						
FEB	1974	39500.	1	24000.	27	31157.	28						
MAR	1974	45100.	24	19900.	12	32161.	31						
APR	1974	66700.	30	40100.	1	47130.	30						
MAY	1974	84100.	12	57800.	27	71203.	31						
JUN	1974	133000.	23	77700.	1	105437.	30						
JUL	1974	116000.	1	20000.	31	50477.	31						
AUG	1974	18300.	30	11600.	11	15290.	31						
SEP	1974	19500.	4	9550.	2	15306.	30	133000.	23 JUN	9550.	2 SEP	37665.	365
OCT	1974	24100.	25	18700.	2	21616.	31						
NOV	1974	25200.	14	16100.	17	22400.	30						
DEC	1974	19900.	16	13300.	4	16645.	31						
JAN	1975	20000.	30	4590.	25	15220.	31						
FEB	1975	20000.	3	12500.	23	16264.	28						
MAR	1975	19800.	31	12700.	5	17013.	31						
APR	1975	23800.	30	13600.	23	17607.	30						
MAY	1975	63400.	24	23600.	1	44748.	31						
JUN	1975	102000.	25	58100.	1	86677.	30						
JUL	1975	78500.	8	18200.	31	45429.	31						
AUG	1975	25200.	30	10100.	17	17826.	31						
SEP	1975	23900.	2	14900.	7	17883.	30	102000.	25 JUN	4590.	25 JAN	28290.	365
OCT	1975	32800.	23	17000.	1	27732.	31						
NOV	1975	32000.	1	13200.	22	24877.	30						
DEC	1975	31100.	9	16300.	25	26742.	31						
JAN	1976	26900.	15	10800.	26	21187.	31						
FEB	1976	29200.	19	19500.	11	23745.	29						
MAR	1976	29500.	30	17300.	12	23974.	31						
APR	1976	49500.	15	23400.	4	39677.	30						
MAY	1976	96900.	21	44700.	1	77565.	31						
JUN	1976	84600.	1	48200.	28	59447.	30						
JUL	1976	55100.	1	17200.	31	35558.	31						
AUG	1976	23600.	25	14700.	8	18987.	31						
SEP	1976	21600.	22	9540.	19	15768.	30	96900.	21 MAY	9540.	19 SEP	32967.	366
OCT	1976	29900.	6	21300.	2	26010.	31						
NOV	1976	21500.	1	13400.	12	17927.	30						
DEC	1976	17900.	30	13400.	25	15455.	31						
JAN	1977	19700.	19	11600.	10	16277.	31						
FEB	1977	21400.	2	6760.	13	12319.	28						
MAR	1977	22300.	10	10400.	5	15213.	31						
APR	1977	14200.	1	3140.	9	5507.	30						
MAY	1977	22600.	11	4330.	1	15322.	31						
JUN	1977	22200.	10	7920.	2	15225.	30						
JUL	1977	14200.	30	4210.	18	7295.	31						
AUG	1977	14300.	28	4050.	15	9979.	31						
SEP	1977	17300.	30	8400.	1	13266.	30	29900.	6 OCT	3140.	9 APR	14177.	365

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PEND OREILLE RIVER AT NEWPORT, WA (1953-90) 12395500

***** MONTHLY FLOW DATA *****								***** YEARLY FLOW DATA *****					
MONTH	YEAR	MAXIMUM	DAY	MINIMUM	DAY	AVERAGE	COUNT	MAXIMUM	DAY	MINIMUM	DAY	AVERAGE	COUNT
OCT	1977	28300.	25	13100.	16	22539.	31						
NOV	1977	27300.	11	14500.	27	23137.	30						
DEC	1977	26100.	17	13000.	29	19439.	31						
JAN	1978	21700.	12	13700.	2	18055.	31						
FEB	1978	20600.	15	17000.	22	18979.	28						
MAR	1978	26600.	31	13600.	6	18810.	31						
APR	1978	38000.	25	27000.	1	32500.	30						
MAY	1978	64700.	31	31400.	3	49732.	31						
JUN	1978	64100.	1	42200.	22	55190.	30						
JUL	1978	55200.	2	18100.	27	36971.	31						
AUG	1978	18000.	5	9260.	25	13434.	31						
SEP	1978	22600.	21	12200.	13	17600.	30	64700.	31 MAY	9260.	25 AUG	27212.	365
OCT	1978	32200.	28	22200.	2	25258.	31						
NOV	1978	29900.	3	13600.	23	22880.	30						
DEC	1978	20700.	7	14200.	3	17216.	31						
JAN	1979	21100.	31	11300.	4	15819.	31						
FEB	1979	21000.	3	11900.	15	14261.	28						
MAR	1979	21200.	22	9770.	5	14467.	31						
APR	1979	23700.	30	8580.	8	16693.	30						
MAY	1979	74900.	30	26300.	1	53706.	31						
JUN	1979	67700.	1	29100.	30	47447.	30						
JUL	1979	30100.	6	11000.	25	20539.	31						
AUG	1979	16600.	28	5110.	17	12061.	31						
SEP	1979	17600.	10	12700.	1	15097.	30	74900.	30 MAY	5110.	17 AUG	22997.	365
OCT	1979	25200.	26	16200.	1	21006.	31						
NOV	1979	25800.	14	13200.	2	21407.	30						
DEC	1979	21400.	21	13300.	7	16610.	31						
JAN	1980	17100.	15	11100.	11	14265.	31						
FEB	1980	18300.	15	3680.	20	12627.	29						
MAR	1980	19300.	25	11000.	15	14732.	31						
APR	1980	29500.	30	8280.	13	16012.	30						
MAY	1980	98300.	29	29500.	1	46952.	31						
JUN	1980	77200.	17	34800.	26	59163.	30						
JUL	1980	35100.	1	12400.	28	24110.	31						
AUG	1980	16900.	24	8230.	12	11232.	31						
SEP	1980	21800.	18	10600.	1	16873.	30	98300.	29 MAY	3680.	20 FEB	22912.	366
OCT	1980	30000.	16	24900.	7	26465.	31						
NOV	1980	25700.	1	15100.	25	20427.	30						
DEC	1980	23000.	3	5510.	28	18139.	31						
JAN	1981	27800.	14	5520.	6	18954.	31						
FEB	1981	31000.	26	16400.	19	24868.	28						
MAR	1981	29900.	1	18500.	30	26835.	31						
APR	1981	31300.	26	17500.	7	23090.	30						
MAY	1981	101000.	28	33300.	1	54681.	31						
JUN	1981	97900.	1	51300.	30	78937.	30						
JUL	1981	48200.	5	15200.	31	32116.	31						
AUG	1981	15400.	3	7080.	18	11345.	31						
SEP	1981	22900.	23	7320.	1	13729.	30	101000.	28 MAY	5510.	28 DEC	29113.	365
OCT	1981	28900.	28	14400.	1	25506.	31						
NOV	1981	29800.	5	14300.	22	22373.	30						

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PEND OREILLE RIVER AT NEWPORT, WA

(1953-90)

12395500

***** MONTHLY FLOW DATA *****								***** YEARLY FLOW DATA *****					
MONTH	YEAR	MAXIMUM	DAY	MINIMUM	DAY	AVERAGE	COUNT	MAXIMUM	DAY	MINIMUM	DAY	AVERAGE	COUNT
DEC	1981	18300.	12	13900.	17	15690.	31						
JAN	1982	19600.	12	4120.	29	14472.	31						
FEB	1982	35000.	23	7180.	15	19066.	28						
MAR	1982	37800.	13	24600.	29	30203.	31						
APR	1982	45100.	30	21200.	7	31697.	30						
MAY	1982	88100.	31	45700.	3	61116.	31						
JUN	1982	100000.	19	52000.	9	80933.	30						
JUL	1982	91800.	1	20100.	31	46113.	31						
AUG	1982	18800.	1	10200.	21	13881.	31						
SEP	1982	22200.	30	6790.	7	11076.	30	100000.	19 JUN	4120.	29 JAN	31048.	365
OCT	1982	20700.	22	13200.	29	17229.	31						
NOV	1982	28000.	17	12600.	24	21190.	30						
DEC	1982	18600.	6	6810.	25	14203.	31						
JAN	1983	23600.	26	3850.	14	13588.	31						
FEB	1983	28800.	14	17500.	1	24486.	28						
MAR	1983	36000.	18	21400.	31	29710.	31						
APR	1983	41100.	27	18800.	15	25643.	30						
MAY	1983	69700.	30	31600.	1	41555.	31						
JUN	1983	65200.	1	26000.	27	45380.	30						
JUL	1983	51500.	18	23400.	29	37403.	31						
AUG	1983	18900.	1	8730.	23	14217.	31						
SEP	1983	22900.	15	11000.	3	18120.	30	69700.	30 MAY	3850.	14 JAN	25207.	365
OCT	1983	26800.	25	15600.	29	23300.	31						
NOV	1983	31800.	22	10800.	8	22407.	30						
DEC	1983	26400.	31	10500.	27	16419.	31						
JAN	1984	24200.	1	3220.	7	18895.	31						
FEB	1984	23100.	2	12500.	26	20552.	29						
MAR	1984	26900.	26	7960.	21	18433.	31						
APR	1984	39800.	22	15600.	3	24480.	30						
MAY	1984	51600.	24	20400.	13	32955.	31						
JUN	1984	68200.	23	40200.	1	54700.	30						
JUL	1984	65600.	1	8100.	25	24174.	31						
AUG	1984	17400.	1	8890.	29	11675.	31						
SEP	1984	23200.	26	10900.	13	16643.	30	68200.	23 JUN	3220.	7 JAN	23673.	366
OCT	1984	28500.	22	18900.	1	25110.	31						
NOV	1984	25500.	1	13900.	30	21143.	30						
DEC	1984	20500.	15	8600.	2	15168.	31						
JAN	1985	18600.	12	8190.	23	15438.	31						
FEB	1985	16100.	3	7660.	12	12999.	28						
MAR	1985	21300.	13	12600.	30	16187.	31						
APR	1985	36200.	22	12100.	2	22923.	30						
MAY	1985	58400.	31	25100.	18	39006.	31						
JUN	1985	63500.	12	20400.	30	41280.	30						
JUL	1985	21100.	4	10700.	16	14842.	31						
AUG	1985	21300.	18	7810.	10	14517.	31						
SEP	1985	26100.	24	15600.	2	21570.	30	63500.	12 JUN	7660.	12 FEB	21698.	365
OCT	1985	30700.	25	3990.	4	23443.	30						
NOV	1985	33500.	11	8590.	29	26096.	30						
DEC	1985	34100.	12	9530.	26	18539.	29						
JAN	1986	22900.	30	14600.	2	17677.	31						

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PEND OREILLE RIVER AT NEWPORT, WA

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***** MONTHLY FLOW DATA *****

MONTH	YEAR	MAXIMUM	DAY	MINIMUM	DAY	AVERAGE	COUNT
FEB	1986	29400.	28	15300.	12	20139.	28
MAR	1986	36500.	17	20100.	5	30271.	31
APR	1986	41900.	3	23900.	9	34247.	30
MAY	1986	72300.	31	18000.	20	33955.	31
JUN	1986	72900.	1	16000.	28	44653.	30
JUL	1986	23900.	1	10000.	31	16826.	31
AUG	1986	12000.	5	3550.	2	8052.	18
OCT	1986	30300.	7	20300.	27	25935.	31
NOV	1986	25200.	6	17300.	17	21827.	30
DEC	1986	19700.	1	12700.	22	16032.	31
JAN	1987	18400.	26	7330.	20	13806.	31
FEB	1987	20100.	6	7290.	26	14557.	28
MAR	1987	20700.	31	3870.	20	13770.	31
APR	1987	29000.	30	15100.	7	23487.	30
MAY	1987	43300.	13	21400.	25	32942.	31
JUN	1987	26400.	13	10500.	29	18880.	30
JUL	1987	22700.	28	7670.	17	12440.	31
AUG	1987	16100.	21	8580.	3	11183.	31
SEP	1987	26200.	18	13200.	28	17770.	30
OCT	1987	26100.	31	15100.	1	23013.	31
NOV	1987	24600.	1	11000.	15	18177.	30
DEC	1987	21500.	11	5940.	25	14064.	31
JAN	1988	17800.	15	5520.	30	9795.	31
FEB	1988	22300.	18	5590.	3	12692.	29
MAR	1988	22000.	9	16100.	1	17994.	31
APR	1988	37100.	21	16000.	3	25890.	30
MAY	1988	34100.	18	18700.	28	25642.	31
JUN	1988	30200.	11	14600.	29	22190.	30
JUL	1988	16300.	7	6120.	15	11269.	31
AUG	1988	12100.	1	4190.	13	5875.	31
SEP	1988	18000.	29	5340.	3	10274.	30
OCT	1988	23200.	26	10700.	23	20397.	31
NOV	1988	26200.	6	14800.	22	20250.	30
DEC	1988	16100.	13	6660.	4	13172.	31
JAN	1989	16400.	4	9000.	31	10775.	31
FEB	1989	14200.	28	8200.	9	11214.	28
MAR	1989	19100.	19	11800.	3	16765.	31
APR	1989	45600.	26	17200.	1	28167.	30
MAY	1989	61400.	16	33600.	31	46019.	31
JUN	1989	55900.	18	22900.	30	41193.	30
JUL	1989	26000.	4	15400.	11	20471.	31
AUG	1989	27500.	26	12700.	10	16174.	31
SEP	1989	23600.	11	16800.	28	20827.	30
OCT	1989	25000.	4	19900.	18	23394.	31
NOV	1989	32300.	14	16200.	6	25623.	30
DEC	1989	29200.	8	17100.	26	21952.	31
JAN	1990	28300.	19	4120.	11	21450.	31
FEB	1990	26800.	1	12300.	27	20332.	28
MAR	1990	24000.	28	12500.	20	18329.	31
APR	1990	54700.	29	23400.	2	38037.	30

***** YEARLY FLOW DATA *****

MAXIMUM	DAY	MINIMUM	DAY	AVERAGE	COUNT
72900.	1 JUN	3550.	2 AUG	21836.	684
37100.	21 APR	4190.	13 AUG	16397.	366
61400.	16 MAY	6660.	4 DEC	22148.	365

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(1953-90)

12395500

MONTH	YEAR	***** MONTHLY FLOW DATA *****					COUNT	***** YEARLY FLOW DATA *****					COUNT
		MAXIMUM	DAY	MINIMUM	DAY	AVERAGE		MAXIMUM	DAY	MINIMUM	DAY	AVERAGE	
MAY	1990	63100.	31	35800.	21	44774.	31						
JUN	1990	76800.	13	52700.	20	66563.	30						
JUL	1990	50800.	8	18000.	20	33114.	22						

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PEND OREILLE RIVER AT NEWPORT, WA (1953-90) 12395500

***** MEAN DAILY FLOW BY MONTH *****

MONTH	MAXIMUM	YEAR	DAY	MINIMUM	YEAR	DAY	AVERAGE	COUNT
OCT	40100.	1959	31	3990.	1985	4	21205.	1177
NOV	45200.	1955	16	8590.	1985	29	22021.	1140
DEC	34100.	1985	12	5510.	1980	28	18285.	1176
JAN	51300.	1974	25	3220.	1984	7	17562.	1178
FEB	39500.	1974	1	3680.	1980	20	19774.	1073
MAR	54900.	1972	24	3870.	1987	20	22393.	1178
APR	82400.	1956	26	3140.	1977	9	29898.	1140
MAY	123000.	1956	31	4330.	1977	1	50680.	1178
JUN	133000.	1972	12	7920.	1977	2	61438.	1140
JUL	116000.	1974	1	4210.	1977	18	28504.	1169
AUG	27500.	1989	26	2940.	1962	29	12126.	1134
SEP	28200.	1959	30	2420.	1962	19	14698.	1080

***** YEARLY FLOW DATA *****

MAXIMUM	YE AR	MINIMUM	YEAR	AVERAGE	COUNT
133000.	1972	2420.	1962	26638.	13763

***** MEAN MONTHLY FLOW DATA *****

MONTH	MAXIMUM	YEAR	MINIMUM	YEAR
OCT	31332.	1959	12442.	1958
NOV	32280.	1959	17040.	1963
DEC	26742.	1975	13172.	1988
JAN	27687.	1959	9795.	1988
FEB	31643.	1965	10914.	1958
MAR	38416.	1972	13770.	1987
APR	56937.	1956	5507.	1977
MAY	83732.	1956	15322.	1977
JUN	105437.	1974	15225.	1977
JUL	50477.	1974	7295.	1977
AUG	18987.	1976	5875.	1988
SEP	21570.	1985	6977.	1962

***** MEAN ANNUAL FLOW DATA *****

MAXIMUM	YEAR	MINIMUM	YEAR
37665.	1974	14177.	1977

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PEND OREILLE RIVER AT NEWPORT, WA

(1953-90) 12395500

FLOW DURATION TABLE FOR STATION 12395500

FLOW	PERCENT = / +	FLOW	PERCENT = / +	FLOW	PERCENT = / +	FLOW	PERCENT = / +	FLOW	PERCENT = / +	FLOW	PERCENT = / +
47000.	12.49	46000.	12.88	45000.	13.28	44000.	13.70	43000.	14.23	42000.	14.68
41000.	15.32	40000.	15.98	39000.	16.35	38000.	16.77	37000.	17.49	36000.	18.43
35000.	19.20	34000.	19.86	33000.	20.69	32000.	21.66	31000.	22.81	30000.	23.89
29000.	25.34	28000.	27.41	27000.	29.39	26000.	31.85	25000.	35.54	24000.	39.01
23000.	41.90	22000.	45.22	21000.	49.73	20000.	53.60	19000.	58.08	18000.	62.43
17500.	64.63	17000.	67.17	16500.	69.67	16000.	72.13	15500.	74.62	15000.	76.70
14500.	78.85	14000.	80.88	13500.	82.93	13000.	84.95	12500.	86.73	12000.	88.29
11500.	89.43	11000.	90.58	10500.	91.99	10000.	93.07	9500.	93.88	9000.	94.83
8500.	95.57	8000.	96.56	7500.	97.12	7000.	97.73	6500.	98.14	6000.	98.50
5500.	98.86	5000.	99.07	4500.	99.26	4000.	99.71	3500.	99.88	3000.	99.95
2900.	99.97	2800.	99.99	2700.	99.99	2600.	99.99	2500.	99.99	2400.	100.00
2300.	100.00	2200.	100.00	2100.	100.00	2000.	100.00	1900.	100.00	1800.	100.00
1700.	100.00	1600.	100.00	1500.	100.00	1400.	100.00	1300.	100.00	1200.	100.00
1100.	100.00	1000.	100.00								

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CONTINUED

FLOW DURATION TABLE FOR STATION 12395500 FROM 1 OCT TO 31 OCT

FLOW	PERCENT = / +	FLOW	PERCENT = / +	FLOW	PERCENT = / +	FLOW	PERCENT = / +	FLOW	PERCENT = / +	FLOW	PERCENT = / +
47000.	0.00	46000.	0.00	45000.	0.00	44000.	0.00	43000.	0.00	42000.	0.00
41000.	0.00	40000.	0.08	39000.	0.08	38000.	0.25	37000.	1.19	36000.	1.27
35000.	1.27	34000.	1.27	33000.	1.36	32000.	2.12	31000.	2.97	30000.	3.57
29000.	5.27	28000.	9.60	27000.	13.51	26000.	18.27	25000.	29.48	24000.	39.85
23000.	46.73	22000.	51.91	21000.	57.52	20000.	61.60	19000.	64.91	18000.	69.75
17500.	72.73	17000.	76.38	16500.	77.99	16000.	80.03	15500.	82.84	15000.	84.54
14500.	85.47	14000.	86.24	13500.	87.17	13000.	88.95	12500.	89.55	12000.	91.25
11500.	93.20	11000.	94.22	10500.	95.50	10000.	96.69	9500.	97.03	9000.	97.45
8500.	98.13	8000.	98.56	7500.	98.81	7000.	99.66	6500.	99.66	6000.	99.75
5500.	99.75	5000.	99.75	4500.	99.83	4000.	99.92	3500.	100.00	3000.	100.00
2900.	100.00	2800.	100.00	2700.	100.00	2600.	100.00	2500.	100.00	2400.	100.00
2300.	100.00	2200.	100.00	2100.	100.00	2000.	100.00	1900.	100.00	1800.	100.00
1700.	100.00	1600.	100.00	1500.	100.00	1400.	100.00	1300.	100.00	1200.	100.00
1100.	100.00	1000.	100.00								

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PEND OREILLE RIVER AT NEWPORT, WA (1953-90) 12395500

FLOW DURATION TABLE FOR STATION 12395500 FROM 1 NOV TO 30 NOV

FLOW	PERCENT = / +	FLOW	PERCENT = / +	FLOW	PERCENT = / +	FLOW	PERCENT = / +	FLOW	PERCENT = / +	FLOW	PERCENT = / +
47000.	0.00	46000.	0.00	45000.	0.09	44000.	0.18	43000.	0.26	42000.	0.44
41000.	0.44	40000.	0.53	39000.	0.70	38000.	0.79	37000.	1.32	36000.	1.58
35000.	1.93	34000.	2.11	33000.	2.28	32000.	2.89	31000.	4.39	30000.	7.28
29000.	9.30	28000.	14.30	27000.	18.95	26000.	23.95	25000.	33.42	24000.	40.35
23000.	45.53	22000.	50.70	21000.	56.49	20000.	62.89	19000.	66.58	18000.	73.60
17500.	76.14	17000.	78.60	16500.	81.49	16000.	84.47	15500.	87.98	15000.	90.09
14500.	91.84	14000.	93.16	13500.	93.95	13000.	95.09	12500.	96.23	12000.	96.67
11500.	97.02	11000.	98.16	10500.	98.77	10000.	99.30	9500.	99.56	9000.	99.91
8500.	100.00	8000.	100.00	7500.	100.00	7000.	100.00	6500.	100.00	6000.	100.00
5500.	100.00	5000.	100.00	4500.	100.00	4000.	100.00	3500.	100.00	3000.	100.00
2900.	100.00	2800.	100.00	2700.	100.00	2600.	100.00	2500.	100.00	2400.	100.00
2300.	100.00	2200.	100.00	2100.	100.00	2000.	100.00	1900.	100.00	1800.	100.00
1700.	100.00	1600.	100.00	1500.	100.00	1400.	100.00	1300.	100.00	1200.	100.00
1100.	100.00	1000.	100.00								

NOV 10 1990
12395500

PEND OREILLE RIVER AT NEWPORT, WA

(1953-90)

12395500

FLOW DURATION TABLE FOR STATION 12395500 FROM 1 DEC TO 31 DEC

FLOW	PERCENT = / +	FLOW	PERCENT = / +	FLOW	PERCENT = / +	FLOW	PERCENT = / +	FLOW	PERCENT = / +	FLOW	PERCENT = / +
47000.	0.00	46000.	0.00	45000.	0.00	44000.	0.00	43000.	0.00	42000.	0.00
41000.	0.00	40000.	0.00	39000.	0.00	38000.	0.00	37000.	0.00	36000.	0.00
35000.	0.00	34000.	0.09	33000.	0.26	32000.	0.43	31000.	0.85	30000.	1.53
29000.	2.21	28000.	4.25	27000.	5.95	26000.	8.08	25000.	10.29	24000.	13.27
23000.	15.56	22000.	19.13	21000.	25.77	20000.	31.97	19000.	41.58	18000.	48.38
17500.	53.06	17000.	56.80	16500.	61.48	16000.	64.63	15500.	69.81	15000.	74.91
14500.	80.27	14000.	83.67	13500.	87.50	13000.	90.05	12500.	92.35	12000.	94.90
11500.	95.66	11000.	96.00	10500.	97.19	10000.	97.53	9500.	97.87	9000.	97.96
8500.	98.21	8000.	98.64	7500.	98.81	7000.	99.06	6500.	99.32	6000.	99.57
5500.	100.00	5000.	100.00	4500.	100.00	4000.	100.00	3500.	100.00	3000.	100.00
2900.	100.00	2800.	100.00	2700.	100.00	2600.	100.00	2500.	100.00	2400.	100.00
2300.	100.00	2200.	100.00	2100.	100.00	2000.	100.00	1900.	100.00	1800.	100.00
1700.	100.00	1600.	100.00	1500.	100.00	1400.	100.00	1300.	100.00	1200.	100.00
1100.	100.00	1000.	100.00								

DEC 01 1989
APR 10 1990
COWT-2000

PEND OREILLE RIVER AT NEWPORT, WA (1953-90) 12395500

FLOW DURATION TABLE FOR STATION 12395500 FROM 1 JAN TO 31 JAN

FLOW	PERCENT = / +	FLOW	PERCENT = / +	FLOW	PERCENT = / +	FLOW	PERCENT = / +	FLOW	PERCENT = / +	FLOW	PERCENT = / +
47000.	0.17	46000.	0.34	45000.	0.34	44000.	0.34	43000.	0.34	42000.	0.34
41000.	0.76	40000.	0.85	39000.	1.02	38000.	1.02	37000.	1.02	36000.	1.19
35000.	1.36	34000.	1.44	33000.	1.61	32000.	1.61	31000.	2.12	30000.	2.29
29000.	2.46	28000.	3.06	27000.	4.58	26000.	6.03	25000.	7.89	24000.	10.02
23000.	12.82	22000.	16.55	21000.	22.67	20000.	28.27	19000.	37.35	18000.	43.63
17500.	47.45	17000.	52.97	16500.	58.15	16000.	62.90	15500.	66.89	15000.	70.80
14500.	73.85	14000.	77.16	13500.	80.14	13000.	82.77	12500.	84.63	12000.	86.08
11500.	87.61	11000.	89.39	10500.	90.58	10000.	92.19	9500.	93.46	9000.	95.50
8500.	96.18	8000.	96.94	7500.	97.20	7000.	97.45	6500.	97.71	6000.	97.79
5500.	98.56	5000.	98.56	4500.	98.81	4000.	99.49	3500.	99.75	3000.	100.00
2900.	100.00	2800.	100.00	2700.	100.00	2600.	100.00	2500.	100.00	2400.	100.00
2300.	100.00	2200.	100.00	2100.	100.00	2000.	100.00	1900.	100.00	1800.	100.00
1700.	100.00	1600.	100.00	1500.	100.00	1400.	100.00	1300.	100.00	1200.	100.00
1100.	100.00	1000.	100.00								

APR 10 1998
MICROFILMED

PEND OREILLE RIVER AT NEWPORT, WA

(1953-90) 12395500

FLOW DURATION TABLE FOR STATION 12395500 FROM 1 FEB TO 28 FEB

FLOW	PERCENT = / +	FLOW	PERCENT = / +	FLOW	PERCENT = / +	FLOW	PERCENT = / +	FLOW	PERCENT = / +	FLOW	PERCENT = / +
47000.	0.00	46000.	0.00	45000.	0.00	44000.	0.00	43000.	0.00	42000.	0.00
41000.	0.00	40000.	0.00	39000.	0.09	38000.	0.28	37000.	0.65	36000.	1.49
35000.	1.68	34000.	2.33	33000.	3.26	32000.	6.52	31000.	7.92	30000.	8.57
29000.	10.07	28000.	12.58	27000.	14.35	26000.	17.15	25000.	21.53	24000.	25.54
23000.	28.15	22000.	33.36	21000.	38.96	20000.	46.51	19000.	54.61	18000.	60.30
17500.	62.26	17000.	64.49	16500.	66.82	16000.	69.71	15500.	71.67	15000.	73.63
14500.	75.68	14000.	78.29	13500.	81.92	13000.	84.53	12500.	87.14	12000.	89.84
11500.	90.68	11000.	91.52	10500.	92.73	10000.	94.13	9500.	95.25	9000.	96.27
8500.	96.64	8000.	97.30	7500.	98.04	7000.	99.07	6500.	99.44	6000.	99.63
5500.	99.81	5000.	99.91	4500.	99.91	4000.	99.91	3500.	100.00	3000.	100.00
2900.	100.00	2800.	100.00	2700.	100.00	2600.	100.00	2500.	100.00	2400.	100.00
2300.	100.00	2200.	100.00	2100.	100.00	2000.	100.00	1900.	100.00	1800.	100.00
1700.	100.00	1600.	100.00	1500.	100.00	1400.	100.00	1300.	100.00	1200.	100.00
1100.	100.00	1000.	100.00								

APR 10 1990
PHOTOCOPIED

PEND OREILLE RIVER AT NEWPORT, WA (1953-90) 12395500

FLOW DURATION TABLE FOR STATION 12395500 FROM 1 MAR TO 31 MAR

FLOW	PERCENT = / +	FLOW	PERCENT = / +	FLOW	PERCENT = / +	FLOW	PERCENT = / +	FLOW	PERCENT = / +	FLOW	PERCENT = / +
47000.	1.70	46000.	1.78	45000.	2.04	44000.	2.21	43000.	2.29	42000.	2.46
41000.	3.14	40000.	3.48	39000.	3.48	38000.	3.57	37000.	4.16	36000.	5.26
35000.	7.05	34000.	7.64	33000.	8.83	32000.	9.76	31000.	11.80	30000.	13.67
29000.	16.13	28000.	19.35	27000.	22.75	26000.	27.59	25000.	32.43	24000.	37.27
23000.	40.58	22000.	44.40	21000.	50.68	20000.	56.54	19000.	62.73	18000.	70.46
17500.	73.60	17000.	75.98	16500.	78.18	16000.	81.32	15500.	83.19	15000.	85.57
14500.	87.35	14000.	88.96	13500.	91.17	13000.	93.04	12500.	94.14	12000.	95.33
11500.	95.76	11000.	96.43	10500.	97.11	10000.	97.79	9500.	98.64	9000.	98.90
8500.	98.90	8000.	99.32	7500.	99.41	7000.	99.41	6500.	99.41	6000.	99.66
5500.	99.66	5000.	99.66	4500.	99.66	4000.	99.83	3500.	100.00	3000.	100.00
2900.	100.00	2800.	100.00	2700.	100.00	2600.	100.00	2500.	100.00	2400.	100.00
2300.	100.00	2200.	100.00	2100.	100.00	2000.	100.00	1900.	100.00	1800.	100.00
1700.	100.00	1600.	100.00	1500.	100.00	1400.	100.00	1300.	100.00	1200.	100.00
1100.	100.00	1000.	100.00								

APR 10 1990

HYDROLOGICAL

PEND OREILLE RIVER AT NEWPORT, WA

(1953-90)

12395500

FLOW DURATION TABLE FOR STATION 12395500 FROM 1 APR TO 30 APR

FLOW	PERCENT = / +	FLOW	PERCENT = / +	FLOW	PERCENT = / +	FLOW	PERCENT = / +	FLOW	PERCENT = / +	FLOW	PERCENT = / +
47000.	12.54	46000.	13.33	45000.	14.30	44000.	15.26	43000.	17.02	42000.	18.42
41000.	20.53	40000.	23.60	39000.	24.82	38000.	26.23	37000.	28.25	36000.	30.18
35000.	32.02	34000.	33.86	33000.	35.79	32000.	37.81	31000.	40.79	30000.	42.89
29000.	44.91	28000.	47.81	27000.	50.18	26000.	51.84	25000.	54.74	24000.	58.16
23000.	62.72	22000.	65.35	21000.	70.96	20000.	73.77	19000.	78.33	18000.	81.23
17500.	82.81	17000.	84.56	16500.	86.84	16000.	88.33	15500.	89.47	15000.	90.53
14500.	91.58	14000.	92.46	13500.	94.12	13000.	95.44	12500.	96.14	12000.	96.49
11500.	96.58	11000.	96.75	10500.	97.11	10000.	97.19	9500.	97.19	9000.	97.19
8500.	97.37	8000.	97.54	7500.	97.63	7000.	97.72	6500.	97.72	6000.	97.72
5500.	97.72	5000.	97.89	4500.	97.98	4000.	99.56	3500.	99.91	3000.	100.00
2900.	100.00	2800.	100.00	2700.	100.00	2600.	100.00	2500.	100.00	2400.	100.00
2300.	100.00	2200.	100.00	2100.	100.00	2000.	100.00	1900.	100.00	1800.	100.00
1700.	100.00	1600.	100.00	1500.	100.00	1400.	100.00	1300.	100.00	1200.	100.00
1100.	100.00	1000.	100.00								

APR 10 1998

HYDROLOGICAL

PEND OREILLE RIVER AT NEWPORT, WA (1953-90) 12395500

FLOW DURATION TABLE FOR STATION 12395500 FROM 1 MAY TO 31 MAY

FLOW	PERCENT = / +	FLOW	PERCENT = / +	FLOW	PERCENT = / +	FLOW	PERCENT = / +	FLOW	PERCENT = / +	FLOW	PERCENT = / +
47000.	49.41	46000.	50.76	45000.	52.38	44000.	53.99	43000.	56.62	42000.	58.66
41000.	60.70	40000.	63.07	39000.	64.09	38000.	65.62	37000.	67.74	36000.	71.65
35000.	73.34	34000.	75.38	33000.	78.10	32000.	79.88	31000.	81.58	30000.	82.51
29000.	84.30	28000.	85.74	27000.	87.27	26000.	89.22	25000.	91.68	24000.	92.36
23000.	92.95	22000.	93.63	21000.	95.50	20000.	96.52	19000.	96.86	18000.	97.37
17500.	97.37	17000.	97.45	16500.	97.96	16000.	98.47	15500.	98.47	15000.	98.64
14500.	98.73	14000.	98.73	13500.	99.07	13000.	99.07	12500.	99.07	12000.	99.07
11500.	99.07	11000.	99.07	10500.	99.15	10000.	99.15	9500.	99.15	9000.	99.15
8500.	99.15	8000.	99.24	7500.	99.92	7000.	99.92	6500.	99.92	6000.	99.92
5500.	99.92	5000.	99.92	4500.	99.92	4000.	100.00	3500.	100.00	3000.	100.00
2900.	100.00	2800.	100.00	2700.	100.00	2600.	100.00	2500.	100.00	2400.	100.00
2300.	100.00	2200.	100.00	2100.	100.00	2000.	100.00	1900.	100.00	1800.	100.00
1700.	100.00	1600.	100.00	1500.	100.00	1400.	100.00	1300.	100.00	1200.	100.00
1100.	100.00	1000.	100.00								

APR 10 1988
 12395500

PEND OREILLE RIVER AT NEWPORT, WA (1953-90) 12395500

FLOW DURATION TABLE FOR STATION 12395500 FROM 1 JUL TO 31 JUL

FLOW	PERCENT = / +	FLOW	PERCENT = / +	FLOW	PERCENT = / +	FLOW	PERCENT = / +	FLOW	PERCENT = / +	FLOW	PERCENT = / +
47000.	14.11	46000.	15.23	45000.	16.25	44000.	17.79	43000.	18.99	42000.	19.85
41000.	20.87	40000.	21.30	39000.	22.50	38000.	23.52	37000.	24.72	36000.	26.01
35000.	27.46	34000.	29.08	33000.	30.71	32000.	32.42	31000.	33.70	30000.	36.27
29000.	39.35	28000.	41.57	27000.	43.80	26000.	46.79	25000.	49.19	24000.	52.52
23000.	55.18	22000.	58.60	21000.	61.59	20000.	64.76	19000.	67.66	18000.	70.83
17500.	72.71	17000.	75.11	16500.	75.88	16000.	78.10	15500.	79.73	15000.	81.52
14500.	82.98	14000.	84.35	13500.	85.20	13000.	86.74	12500.	89.65	12000.	90.68
11500.	91.53	11000.	93.16	10500.	93.93	10000.	94.95	9500.	95.64	9000.	96.66
8500.	97.01	8000.	97.69	7500.	98.03	7000.	98.46	6500.	98.46	6000.	98.80
5500.	98.80	5000.	98.80	4500.	98.97	4000.	100.00	3500.	100.00	3000.	100.00
2900.	100.00	2800.	100.00	2700.	100.00	2600.	100.00	2500.	100.00	2400.	100.00
2300.	100.00	2200.	100.00	2100.	100.00	2000.	100.00	1900.	100.00	1800.	100.00
1700.	100.00	1600.	100.00	1500.	100.00	1400.	100.00	1300.	100.00	1200.	100.00
1100.	100.00	1000.	100.00								

APR 10 1998

12395500

PEND OREILLE RIVER AT NEWPORT, WA (1953-90) 12395500

FLOW DURATION TABLE FOR STATION 12395500 FROM 1 SEP TO 30 SEP

FLOW	PERCENT = / +	FLOW	PERCENT = / +	FLOW	PERCENT = / +	FLOW	PERCENT = / +	FLOW	PERCENT = / +	FLOW	PERCENT = / +
47000.	0.00	46000.	0.00	45000.	0.00	44000.	0.00	43000.	0.00	42000.	0.00
41000.	0.00	40000.	0.00	39000.	0.00	38000.	0.00	37000.	0.00	36000.	0.00
35000.	0.00	34000.	0.00	33000.	0.00	32000.	0.00	31000.	0.00	30000.	0.00
29000.	0.00	28000.	0.09	27000.	0.37	26000.	1.57	25000.	3.43	24000.	5.46
23000.	7.96	22000.	12.04	21000.	17.69	20000.	20.00	19000.	22.69	18000.	27.41
17500.	29.07	17000.	31.57	16500.	35.00	16000.	38.15	15500.	41.94	15000.	43.98
14500.	47.50	14000.	52.59	13500.	55.93	13000.	60.46	12500.	64.35	12000.	67.87
11500.	70.56	11000.	72.87	10500.	77.04	10000.	78.98	9500.	81.39	9000.	83.43
8500.	86.20	8000.	89.07	7500.	90.65	7000.	93.24	6500.	94.72	6000.	95.46
5500.	96.67	5000.	97.31	4500.	97.96	4000.	98.33	3500.	99.26	3000.	99.54
2900.	99.63	2800.	99.81	2700.	99.81	2600.	99.81	2500.	99.91	2400.	100.00
2300.	100.00	2200.	100.00	2100.	100.00	2000.	100.00	1900.	100.00	1800.	100.00
1700.	100.00	1600.	100.00	1500.	100.00	1400.	100.00	1300.	100.00	1200.	100.00
1100.	100.00	1000.	100.00								

SEP 1 1990
10:00 AM
10:00 AM

STATION PEND OREILLE RIVER AT NEWPORT, WA (1953-90) 12395500
FLOW DURATION TABLE

MON	DAY	MINIMUM	YEAR	MAXIMUM	YEAR	***** DAILY FLOW DATA *****		EXCEEDANCE FREQUENCY				
						AVERAGE	COUNT	0.90	0.75	0.50	0.25	0.10
FEB	1	5690.	1988	39500.	1974	19004.		12400.	15500.	19000.	21700.	27600.
FEB	2	7600.	1988	36200.	1974	19651.		13000.	16100.	19100.	23100.	28400.
FEB	3	5590.	1988	36200.	1974	20359.		13900.	17000.	20000.	24500.	30700.
FEB	4	7720.	1988	38700.	1974	20226.		13800.	17100.	19800.	23700.	30500.
FEB	5	8340.	1988	38500.	1974	20088.		13500.	16500.	19500.	23800.	30400.
FEB	6	6130.	1988	36300.	1974	19978.		13500.	15500.	19700.	25500.	29900.
FEB	7	6250.	1988	36300.	1974	19971.		13100.	15500.	20000.	24100.	31000.
FEB	8	8270.	1988	34400.	1963	19694.		13000.	15100.	20100.	24800.	29600.
FEB	9	7860.	1988	34500.	1963	19333.		12800.	14300.	20100.	25000.	31100.
FEB	10	7960.	1988	35300.	1963	19343.		12100.	14000.	19000.	25100.	32600.
FEB	11	7730.	1977	34700.	1963	19254.		11000.	13300.	19500.	24600.	32600.
FEB	12	6920.	1977	34900.	1963	19041.		9810.	12100.	19000.	25300.	32500.
FEB	13	6760.	1977	34700.	1963	19104.		10300.	12800.	19600.	25000.	32500.
FEB	14	6760.	1977	32700.	1965	19611.		11400.	14400.	19800.	24700.	32500.
FEB	15	7050.	1977	32800.	1965	19909.		11900.	15800.	20100.	27000.	31200.
FEB	16	7040.	1977	32700.	1965	20022.		12500.	14700.	19900.	26200.	31100.
FEB	17	6800.	1977	33200.	1965	20066.		12900.	14900.	19700.	26700.	32300.
FEB	18	7070.	1977	33100.	1965	19662.		11000.	15000.	19700.	25000.	32100.
FEB	19	5440.	1980	33100.	1965	19253.		10000.	14800.	19200.	25300.	32100.
FEB	20	3680.	1980	36700.	1971	19253.		10800.	16100.	18900.	24900.	31600.
FEB	21	7250.	1980	36600.	1971	19375.		12900.	15300.	17900.	24500.	32900.
FEB	22	10300.	1958	37600.	1971	19724.		13200.	15400.	18900.	24600.	31000.
FEB	23	10200.	1985	37600.	1971	20258.		12100.	15900.	20100.	25100.	32600.
FEB	24	10200.	1987	37200.	1971	20329.		11700.	15500.	19700.	24900.	33000.
FEB	25	8450.	1987	37400.	1971	19839.		12400.	14400.	19000.	25000.	33100.
FEB	26	7290.	1987	36800.	1971	20012.		12400.	13500.	19700.	25100.	32700.
FEB	27	7310.	1987	36300.	1971	20262.		12400.	14600.	20400.	25000.	30900.
FEB	28	9240.	1987	36900.	1971	20727.		12200.	15500.	20200.	26100.	31100.
FEB	29	16000.	1988	26800.	1976	21133.		16100.	20400.	22000.	24100.	26800.

000101000

STATION PEND OREILLE RIVER AT NEWPORT, WA (1953-90) 12395500
FLOW DURATION TABLE

MON	DAY	MINIMUM	YEAR	MAXIMUM	YEAR	***** DAILY FLOW DATA *****		EXCEEDANCE FREQUENCY				
						AVERAGE	COUNT	0.90	0.75	0.50	0.25	0.10
MAR	1	10500.	1987	35500.	1971	20782.		13100.	16000.	20800.	26600.	29900.
MAR	2	9410.	1968	33500.	1965	20313.		12600.	14900.	21600.	25500.	29000.
MAR	3	9760.	1968	33800.	1965	20528.		12400.	15700.	21200.	25900.	29800.
MAR	4	9870.	1968	34400.	1965	21128.		13500.	16600.	20900.	26200.	29800.
MAR	5	9770.	1979	35500.	1965	21194.		12700.	16400.	22700.	25700.	30000.
MAR	6	9780.	1968	35200.	1965	21052.		13600.	17500.	21000.	26600.	30100.
MAR	7	9790.	1968	35700.	1965	21368.		13900.	16600.	20900.	26600.	30300.
MAR	8	10100.	1968	35300.	1965	21213.		13900.	16700.	21100.	26500.	29700.
MAR	9	9910.	1968	35200.	1965	21395.		13700.	16300.	21200.	27000.	30800.
MAR	10	9810.	1968	35200.	1965	21958.		14200.	17400.	21000.	27700.	32200.
MAR	11	10100.	1968	35900.	1986	22124.		15300.	17300.	21500.	26300.	34900.
MAR	12	10200.	1968	37700.	1982	21800.		13900.	18500.	21400.	26300.	35300.
MAR	13	9820.	1968	37800.	1982	21874.		15300.	18800.	21300.	24400.	35500.
MAR	14	10800.	1968	37700.	1982	22061.		15300.	17000.	20700.	26900.	35500.
MAR	15	9490.	1984	37400.	1982	22158.		13700.	17900.	20900.	28500.	34800.
MAR	16	8190.	1984	37300.	1982	22202.		13800.	17100.	20200.	29000.	36100.
MAR	17	8140.	1984	41400.	1972	21759.		12800.	16600.	20200.	28400.	36500.
MAR	18	6060.	1987	43300.	1972	21703.		13000.	16700.	20700.	28500.	36000.
MAR	19	3970.	1987	45200.	1972	22136.		13600.	17400.	21400.	28800.	35900.
MAR	20	3870.	1987	47400.	1972	22041.		13200.	17800.	20500.	28500.	35100.
MAR	21	4400.	1987	52000.	1972	21861.		14400.	17200.	20200.	28100.	35300.
MAR	22	4310.	1987	53500.	1972	22606.		14100.	18300.	21200.	28100.	33900.
MAR	23	6160.	1987	53600.	1972	23341.		16000.	18700.	20500.	27200.	41400.
MAR	24	12700.	1987	54900.	1972	23626.		15400.	18700.	21000.	27500.	45100.
MAR	25	13100.	1979	54800.	1972	24058.		15500.	19100.	21900.	28500.	42500.
MAR	26	13500.	1977	54700.	1972	24345.		15200.	18800.	22200.	26900.	44700.
MAR	27	13300.	1977	54300.	1972	24461.		15700.	18900.	22900.	27200.	41600.
MAR	28	9440.	1953	53700.	1972	24719.		16300.	19100.	24000.	27300.	41600.
MAR	29	13500.	1980	53000.	1972	25018.		15800.	18900.	23900.	29100.	45500.
MAR	30	11800.	1980	52300.	1972	24618.		16000.	18200.	21500.	29900.	44300.
MAR	31	13400.	1979	51400.	1972	24745.		15200.	18600.	22600.	31400.	42600.

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STATION PEND OREILLE RIVER AT NEWPORT, WA (1953-90) 12395500
FLOW DURATION TABLE

***** DAILY FLOW DATA *****

MON	DAY	MINIMUM	YEAR	MAXIMUM	YEAR	AVERAGE	COUNT	EXCEEDANCE FREQUENCY				
								0.90	0.75	0.50	0.25	0.10
APR	1	13200.	1979	50300.	1972	24924.		14900.	17600.	23700.	31300.	40100.
APR	2	12100.	1985	49900.	1972	25558.		13900.	18100.	23900.	32000.	41900.
APR	3	10200.	1980	49800.	1972	25713.		14600.	19400.	23700.	36500.	41900.
APR	4	5150.	1959	50800.	1972	25230.		14300.	17500.	22700.	35500.	42500.
APR	5	7160.	1959	53400.	1969	24947.		13500.	17300.	22200.	35400.	44200.
APR	6	5450.	1977	52000.	1969	25014.		14700.	16900.	22400.	33600.	44600.
APR	7	4070.	1977	51300.	1969	24754.		14900.	17600.	22800.	34300.	48600.
APR	8	3520.	1977	56500.	1960	24595.		15800.	17700.	21700.	31400.	51300.
APR	9	3140.	1977	59300.	1960	25588.		16500.	18300.	23100.	31300.	51100.
APR	10	4300.	1977	59700.	1960	27095.		17000.	20500.	23800.	34800.	51100.
APR	11	4640.	1977	59300.	1960	27433.		16500.	20900.	25200.	35700.	50100.
APR	12	4300.	1977	53600.	1960	27960.		16800.	19800.	26800.	37000.	47500.
APR	13	4050.	1977	52800.	1968	28696.		16900.	19900.	25500.	39500.	47900.
APR	14	3930.	1977	55600.	1968	29335.		18800.	20100.	25200.	40200.	50200.
APR	15	4470.	1977	60500.	1960	30097.		18800.	21200.	27300.	41900.	54100.
APR	16	4230.	1977	64900.	1960	30435.		16600.	20200.	29500.	42800.	52000.
APR	17	4230.	1977	63800.	1960	31061.		16400.	20100.	31100.	42800.	54700.
APR	18	4260.	1977	73400.	1956	31275.		16100.	20400.	30400.	42500.	54700.
APR	19	3980.	1977	75900.	1956	31310.		16100.	21100.	32100.	41200.	54800.
APR	20	4300.	1977	76600.	1956	31684.		16400.	20700.	32600.	43200.	50200.
APR	21	4050.	1977	75700.	1956	32054.		14000.	21700.	33300.	43200.	50300.
APR	22	4090.	1977	76000.	1956	32189.		14000.	21600.	29200.	43300.	50900.
APR	23	3850.	1977	78900.	1956	33075.		14400.	23700.	31200.	44700.	52300.
APR	24	4160.	1977	80600.	1956	33694.		15400.	25800.	31100.	44900.	53000.
APR	25	4210.	1977	81800.	1956	34229.		16800.	26100.	31200.	46400.	54200.
APR	26	4210.	1977	82400.	1956	34874.		17500.	25200.	31900.	47700.	56800.
APR	27	4260.	1977	82200.	1956	35712.		18500.	25300.	32900.	45700.	62700.
APR	28	4260.	1977	81900.	1956	35562.		19400.	24600.	33700.	50700.	63900.
APR	29	4420.	1977	82100.	1956	35864.		19300.	23400.	31600.	51800.	65800.
APR	30	4400.	1977	81100.	1956	36992.		21100.	26000.	31500.	51800.	67500.

STATION PEND OREILLE RIVER AT NEWPORT, WA (1953-90) 12395500
FLOW DURATION TABLE

MON	DAY	MINIMUM	YEAR	MAXIMUM	YEAR	***** DAILY FLOW DATA *****		EXCEEDANCE FREQUENCY				
						AVERAGE	COUNT	0.90	0.75	0.50	0.25	0.10
MAY	1	4330.	1977	79500.	1956	37798.	22100.	28300.	33300.	51200.	68300.	
MAY	2	10600.	1977	78000.	1956	38808.	23700.	27800.	33700.	50600.	69700.	
MAY	3	16000.	1977	72800.	1965	39384.	25000.	28600.	35300.	51200.	70500.	
MAY	4	16100.	1977	74200.	1965	39674.	25500.	29200.	36500.	48100.	69800.	
MAY	5	13700.	1973	75300.	1965	40379.	25800.	29800.	36700.	49200.	68800.	
MAY	6	15100.	1973	75300.	1965	41500.	26400.	32200.	37700.	49700.	69300.	
MAY	7	16500.	1977	75100.	1974	42532.	26900.	34000.	40200.	51600.	68600.	
MAY	8	13500.	1973	77200.	1974	43632.	26900.	34800.	42700.	53200.	70600.	
MAY	9	15300.	1973	79400.	1974	44616.	27100.	33100.	42900.	56500.	71300.	
MAY	10	16900.	1973	81700.	1974	45237.	26300.	33100.	43100.	57700.	69400.	
MAY	11	16800.	1973	83400.	1974	45845.	25500.	34200.	43800.	59000.	69700.	
MAY	12	13700.	1973	84400.	1971	46174.	25400.	33500.	44500.	59300.	73900.	
MAY	13	13600.	1973	87400.	1971	46903.	26800.	36800.	45100.	58200.	78700.	
MAY	14	16700.	1973	92400.	1971	48147.	26000.	36800.	45400.	59300.	82900.	
MAY	15	19100.	1973	95500.	1971	49111.	28100.	37500.	46700.	61300.	79400.	
MAY	16	21500.	1977	94700.	1971	50008.	30000.	37600.	49000.	61400.	79200.	
MAY	17	21100.	1973	93500.	1971	50987.	29000.	37500.	47400.	66500.	81200.	
MAY	18	20300.	1973	94000.	1976	51721.	31400.	37700.	49400.	68400.	82300.	
MAY	19	20500.	1973	95400.	1976	52505.	32500.	37600.	51900.	71200.	82800.	
MAY	20	18000.	1986	96100.	1976	53116.	28000.	38000.	50200.	73800.	81100.	
MAY	21	20700.	1986	96900.	1976	54300.	29600.	38900.	53300.	73900.	83400.	
MAY	22	14800.	1977	96700.	1976	55505.	27900.	39000.	56900.	73300.	89700.	
MAY	23	8030.	1977	95800.	1976	56827.	32100.	39700.	58300.	74000.	93300.	
MAY	24	7850.	1977	98900.	1956	58167.	32600.	40500.	60600.	74300.	95500.	
MAY	25	7850.	1977	104000.	1956	59214.	31600.	41700.	62800.	75400.	97400.	
MAY	26	7770.	1977	111000.	1956	60586.	28400.	44300.	65300.	78000.	98100.	
MAY	27	7770.	1977	115000.	1956	61797.	29100.	44500.	66200.	81200.	99500.	
MAY	28	7740.	1977	118000.	1956	62425.	29100.	45800.	65700.	84200.	101000.	
MAY	29	7790.	1977	120000.	1956	63860.	31200.	46800.	67300.	89600.	101000.	
MAY	30	7760.	1977	121000.	1956	64973.	31100.	50300.	69700.	89300.	98800.	
MAY	31	7700.	1977	123000.	1956	65337.	31200.	50500.	72300.	82200.	97900.	

APR 10 1978
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STATION PEND OREILLE RIVER AT NEWPORT, WA (1953-90) 12395500
FLOW DURATION TABLE

MON	DAY	MINIMUM	YEAR	MAXIMUM	YEAR	***** DAILY FLOW DATA *****		EXCEEDANCE FREQUENCY				
						AVERAGE	COUNT	0.90	0.75	0.50	0.25	0.10
JUN	1	7930.	1977	124000.	1956	65417.	31200.	51600.	68600.	84000.	98900.	
JUN	2	7920.	1977	125000.	1956	65827.	31200.	52400.	70800.	85200.	102000.	
JUN	3	9990.	1977	126000.	1956	65673.	29900.	52300.	68000.	82500.	104000.	
JUN	4	14300.	1977	126000.	1956	65858.	30200.	51700.	70000.	80600.	107000.	
JUN	5	14200.	1977	127000.	1956	65818.	30100.	50700.	70900.	80300.	110000.	
JUN	6	16500.	1987	127000.	1956	66492.	35000.	51400.	68300.	85000.	111000.	
JUN	7	18200.	1987	125000.	1956	67542.	40700.	50600.	70000.	84400.	113000.	
JUN	8	18700.	1973	127000.	1972	68224.	47500.	50300.	67900.	85500.	114000.	
JUN	9	14600.	1973	129000.	1972	68487.	47000.	52000.	66200.	88700.	112000.	
JUN	10	18300.	1973	130000.	1972	68129.	40900.	54800.	62400.	90400.	111000.	
JUN	11	19300.	1977	132000.	1972	67805.	37700.	53300.	62000.	90200.	108000.	
JUN	12	17700.	1977	133000.	1972	67289.	38800.	52300.	63600.	88800.	107000.	
JUN	13	19400.	1977	133000.	1972	66145.	39200.	52300.	62800.	89000.	105000.	
JUN	14	19900.	1977	131000.	1972	64797.	35500.	51300.	57300.	89100.	99100.	
JUN	15	18100.	1977	122000.	1972	63342.	35700.	51400.	55800.	77300.	98000.	
JUN	16	14700.	1973	119000.	1964	62845.	34100.	48400.	60500.	83400.	102000.	
JUN	17	16400.	1977	119000.	1964	62787.	29500.	46000.	57800.	86600.	108000.	
JUN	18	14100.	1977	119000.	1964	62097.	31700.	45600.	57000.	81400.	108000.	
JUN	19	14500.	1977	119000.	1964	60911.	32200.	43700.	58400.	80800.	100000.	
JUN	20	17000.	1987	124000.	1974	59550.	28400.	40900.	58200.	80700.	98300.	
JUN	21	11300.	1977	128000.	1974	58261.	28400.	39200.	57100.	80100.	98900.	
JUN	22	11100.	1977	131000.	1974	57318.	25600.	35700.	54400.	81300.	99800.	
JUN	23	10500.	1977	133000.	1974	57466.	25600.	35100.	57500.	81800.	100000.	
JUN	24	10000.	1977	133000.	1974	57255.	25600.	35400.	58700.	74800.	101000.	
JUN	25	10800.	1977	133000.	1974	56124.	24600.	35300.	56800.	69400.	99900.	
JUN	26	10900.	1977	132000.	1974	54342.	23600.	34800.	52200.	70100.	98900.	
JUN	27	12000.	1977	130000.	1974	51771.	19100.	30900.	51500.	68600.	98200.	
JUN	28	11100.	1987	127000.	1974	50029.	19100.	33600.	50200.	68400.	92700.	
JUN	29	10500.	1987	124000.	1974	48624.	20700.	31300.	49800.	62200.	89200.	
JUN	30	11400.	1977	120000.	1974	46903.	20400.	33400.	48000.	58700.	80700.	

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HYDROLOGICAL

STATION PEND OREILLE RIVER AT NEWPORT, WA (1953-90) 12395500
FLOW DURATION TABLE

MON	DAY	MINIMUM	YEAR	MAXIMUM	YEAR	***** DAILY FLOW DATA *****		EXCEEDANCE FREQUENCY				
						AVERAGE	COUNT	0.90	0.75	0.50	0.25	0.10
JUL	1	7350.	1977	116000.	1974	45709.		18800.	31700.	46700.	57900.	68700.
JUL	2	7420.	1977	106000.	1974	44353.		19000.	32500.	46700.	55700.	63200.
JUL	3	6320.	1977	95700.	1974	42401.		19000.	30100.	45200.	52800.	57900.
JUL	4	4350.	1977	90600.	1974	40588.		18300.	27800.	44500.	50900.	54100.
JUL	5	4330.	1977	80700.	1974	39467.		17300.	29100.	43900.	49700.	57700.
JUL	6	4940.	1977	76900.	1982	38369.		17300.	24800.	41900.	48600.	63400.
JUL	7	6440.	1977	76200.	1975	37972.		17400.	24200.	40200.	47100.	70700.
JUL	8	7390.	1977	80900.	1954	36831.		17800.	25200.	34200.	49400.	65200.
JUL	9	4350.	1977	78300.	1954	35470.		17000.	26000.	33000.	48200.	60300.
JUL	10	4760.	1977	78800.	1954	34046.		17000.	26000.	31400.	43100.	60100.
JUL	11	6330.	1977	78300.	1954	33043.		15700.	23800.	29000.	43200.	62000.
JUL	12	4450.	1977	74800.	1954	31639.		14800.	21500.	28200.	42100.	58700.
JUL	13	4390.	1977	64800.	1954	30174.		13300.	21000.	27000.	39200.	56800.
JUL	14	4390.	1977	57300.	1955	28655.		14700.	21000.	27900.	37100.	52000.
JUL	15	4370.	1977	59800.	1955	27944.		14600.	20700.	26300.	34900.	51800.
JUL	16	4340.	1977	62100.	1955	27648.		15800.	20300.	25900.	34500.	52200.
JUL	17	4290.	1977	62900.	1955	27279.		15400.	19200.	25300.	33700.	47400.
JUL	18	4210.	1977	63500.	1954	26923.		15300.	19700.	24300.	34600.	51500.
JUL	19	4430.	1977	60600.	1954	25325.		14700.	18400.	24300.	32500.	46600.
JUL	20	4480.	1977	36600.	1983	22607.		13400.	17500.	21800.	29700.	36100.
JUL	21	7680.	1977	36200.	1978	21178.		12900.	16200.	20700.	29200.	31000.
JUL	22	8580.	1984	36000.	1978	21026.		12800.	15800.	20200.	28000.	32400.
JUL	23	8190.	1984	36900.	1974	20776.		12700.	15300.	19700.	26300.	34900.
JUL	24	8190.	1984	33700.	1955	19850.		11900.	14300.	18300.	27600.	31000.
JUL	25	8100.	1984	32300.	1975	19050.		11000.	14400.	18100.	25300.	30500.
JUL	26	9080.	1984	33000.	1983	18581.		11200.	14000.	17800.	24400.	29900.
JUL	27	8920.	1966	29900.	1954	18184.		11100.	14000.	18100.	22400.	29000.
JUL	28	9490.	1988	29300.	1974	17675.		11200.	13000.	17600.	22700.	25700.
JUL	29	9830.	1957	28100.	1974	16971.		11400.	13100.	17100.	20900.	24400.
JUL	30	9060.	1957	28800.	1955	16296.		11000.	12600.	16900.	20000.	23600.
JUL	31	7460.	1961	28500.	1955	15106.		10000.	12600.	14900.	18200.	21700.

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STATION PEND OREILLE RIVER AT NEWPORT, WA (1953-90) 12395500
FLOW DURATION TABLE

MON	DAY	MINIMUM	YEAR	MAXIMUM	YEAR	***** DAILY FLOW DATA *****		EXCEEDANCE FREQUENCY				
						AVERAGE	COUNT	0.90	0.75	0.50	0.25	0.10
AUG	1	6570.	1961	21900.	1971	14896.	10500.	12700.	15200.	17300.	20000.	
AUG	2	3550.	1986	21500.	1955	14396.	9600.	11800.	15700.	17000.	19500.	
AUG	3	4140.	1986	21400.	1970	14037.	9300.	11800.	15400.	16600.	18500.	
AUG	4	7650.	1961	21900.	1970	13951.	9300.	12200.	14100.	16200.	20700.	
AUG	5	7210.	1988	24800.	1965	13871.	8860.	11600.	13600.	16400.	21700.	
AUG	6	5400.	1988	24300.	1975	13501.	9080.	10600.	13600.	16300.	21100.	
AUG	7	5100.	1988	22200.	1955	13067.	8270.	10500.	13200.	16400.	18400.	
AUG	8	5080.	1988	19800.	1955	12582.	7590.	10600.	13200.	15300.	17500.	
AUG	9	4640.	1958	19700.	1971	12304.	7850.	10100.	12800.	15700.	18300.	
AUG	10	4450.	1958	19100.	1976	11769.	7810.	9160.	12300.	14500.	16800.	
AUG	11	4970.	1988	18300.	1976	11829.	8200.	9540.	12100.	14800.	16500.	
AUG	12	4580.	1988	22700.	1967	12075.	8300.	9570.	12100.	14600.	17200.	
AUG	13	4190.	1988	19600.	1976	11718.	8100.	9650.	12100.	14800.	16800.	
AUG	14	4300.	1988	16600.	1965	11251.	6910.	9480.	10500.	14500.	16600.	
AUG	15	4050.	1977	17700.	1969	11243.	7200.	9400.	10600.	14700.	16700.	
AUG	16	4190.	1988	21000.	1976	11592.	7370.	8930.	11000.	15000.	17500.	
AUG	17	4250.	1988	21700.	1976	11917.	8070.	9090.	11900.	15100.	20900.	
AUG	18	4260.	1988	21900.	1976	12049.	8040.	9890.	12200.	14000.	20800.	
AUG	19	4390.	1988	21800.	1976	11277.	7850.	9070.	11200.	13200.	16600.	
AUG	20	4390.	1988	21800.	1976	11017.	7950.	8530.	10700.	13800.	16500.	
AUG	21	4200.	1988	21600.	1976	11349.	7070.	8300.	11800.	13700.	16300.	
AUG	22	5140.	1988	17400.	1976	10832.	6630.	8360.	10600.	13500.	16100.	
AUG	23	5630.	1967	17200.	1976	10828.	6660.	8210.	9810.	14100.	17100.	
AUG	24	5340.	1963	22100.	1976	11286.	6200.	7990.	11200.	14000.	18900.	
AUG	25	4330.	1973	23900.	1989	11470.	5650.	6900.	11700.	14400.	22000.	
AUG	26	4490.	1973	27500.	1989	12001.	5780.	7400.	11800.	15800.	21600.	
AUG	27	4010.	1967	27400.	1989	11972.	5160.	7740.	12200.	14400.	19200.	
AUG	28	3490.	1962	22900.	1975	11684.	6110.	7390.	11200.	15400.	19400.	
AUG	29	2940.	1962	24500.	1975	11963.	5590.	8120.	12300.	15500.	19200.	
AUG	30	3100.	1962	25200.	1975	11368.	6590.	8120.	11000.	14800.	18300.	
AUG	31	2940.	1961	23100.	1975	10696.	5420.	7020.	10600.	14100.	16800.	

APR 10 1996

STATION PEND OREILLE RIVER AT NEWPORT, WA (1953-90) 12395500
FLOW DURATION TABLE

MON	DAY	MINIMUM	YEAR	MAXIMUM	YEAR	***** DAILY FLOW DATA *****		EXCEEDANCE FREQUENCY				
						AVERAGE	COUNT	0.90	0.75	0.50	0.25	0.10
SEP	1	3350.	1962	19100.	1989	11036.		4840.	8400.	11500.	14200.	18800.
SEP	2	3210.	1962	23900.	1975	11722.		6320.	8480.	11800.	14100.	19700.
SEP	3	3570.	1962	21800.	1975	11980.		7460.	9210.	12600.	14400.	19800.
SEP	4	3890.	1963	19800.	1954	11792.		5410.	8090.	13000.	15100.	18900.
SEP	5	2590.	1961	21000.	1989	11879.		5440.	8400.	13100.	15600.	17000.
SEP	6	2830.	1961	23400.	1989	12270.		6970.	8720.	13200.	15000.	18800.
SEP	7	3120.	1961	23100.	1989	12726.		6790.	9420.	13500.	15100.	21400.
SEP	8	2860.	1961	27300.	1966	13317.		6760.	10200.	12400.	16100.	23100.
SEP	9	5870.	1961	26400.	1957	14071.		7590.	10800.	14100.	16100.	23600.
SEP	10	6480.	1961	26400.	1957	14672.		8190.	11800.	14600.	18200.	22600.
SEP	11	6970.	1961	26400.	1957	14372.		7490.	10800.	14500.	17700.	21800.
SEP	12	4960.	1961	24700.	1957	14441.		8940.	11100.	14100.	18400.	21800.
SEP	13	4930.	1961	23600.	1985	14366.		8990.	11200.	14100.	18000.	21700.
SEP	14	3690.	1961	22400.	1983	14239.		9890.	10700.	13300.	18400.	21600.
SEP	15	5650.	1961	24200.	1956	14636.		8520.	10600.	14000.	18900.	22000.
SEP	16	5920.	1961	25700.	1956	15058.	10300.		11900.	13700.	19600.	23600.
SEP	17	5880.	1961	26000.	1956	15214.		7960.	11900.	14000.	20500.	24200.
SEP	18	2950.	1962	26700.	1956	15213.		7800.	12200.	15200.	19200.	23400.
SEP	19	2420.	1962	26800.	1956	15598.		9460.	10900.	15900.	21700.	24700.
SEP	20	5490.	1963	27300.	1956	15866.		9550.	11600.	14300.	21800.	26000.
SEP	21	5710.	1957	25900.	1985	16082.		8700.	12800.	16000.	21100.	24600.
SEP	22	5500.	1957	25800.	1985	16173.		9220.	13300.	16700.	21100.	23600.
SEP	23	7170.	1962	25700.	1968	16420.		9020.	13600.	16300.	21600.	24800.
SEP	24	6660.	1962	26100.	1985	16219.		9520.	11800.	16900.	21000.	25800.
SEP	25	6530.	1963	25900.	1985	16442.		9490.	11900.	16800.	21100.	25100.
SEP	26	7250.	1960	25900.	1985	16808.		8820.	12900.	16900.	21700.	25500.
SEP	27	6210.	1963	26000.	1953	16706.		8340.	14200.	16900.	21500.	24800.
SEP	28	5680.	1963	25900.	1953	16911.		9960.	13800.	16800.	21700.	24800.
SEP	29	5810.	1963	27100.	1959	17247.	11000.		12900.	17400.	21900.	24900.
SEP	30	6550.	1963	28200.	1959	17480.	10700.		12500.	17900.	22000.	25000.

SEP 10 1963

STATION PEND OREILLE RIVER AT NEWPORT, WA (1953-90) 12395500
FLOW DURATION TABLE

MON	DAY	MINIMUM	YEAR	MAXIMUM	YEAR	***** DAILY FLOW DATA *****		EXCEEDANCE FREQUENCY				
						AVERAGE	COUNT	0.90	0.75	0.50	0.25	0.10
OCT	1	8930.	1972	29500.	1986	18143.		10600.	14800.	17500.	22900.	25600.
OCT	2	7940.	1962	29500.	1986	18371.		10200.	13700.	18800.	24200.	25000.
OCT	3	7500.	1952	29600.	1986	18840.		10500.	15600.	20600.	24500.	25000.
OCT	4	3990.	1985	29500.	1986	19070.		10300.	16000.	21600.	24500.	25200.
OCT	5	4500.	1985	29600.	1986	19416.		8740.	15800.	21500.	24800.	26700.
OCT	6	4230.	1985	29900.	1976	19198.		9920.	15700.	21200.	24700.	26700.
OCT	7	7300.	1952	30300.	1986	19594.		10700.	16300.	20000.	24800.	27000.
OCT	8	7300.	1952	28600.	1986	19595.		11700.	16400.	20800.	24600.	27000.
OCT	9	7300.	1952	29200.	1980	20466.		12300.	16600.	21600.	24700.	27600.
OCT	10	7300.	1952	29100.	1980	20718.		13800.	18200.	21400.	24700.	28400.
OCT	11	7300.	1952	29100.	1980	21108.		14100.	18000.	22200.	25500.	27700.
OCT	12	7300.	1952	29200.	1980	21261.		13500.	17800.	23300.	25500.	26700.
OCT	13	8500.	1952	29700.	1980	20597.		13000.	17700.	22100.	25500.	27300.
OCT	14	7140.	1961	29400.	1980	20575.		11800.	17500.	22400.	25300.	27700.
OCT	15	10200.	1958	31000.	1959	21058.		14000.	17600.	22600.	25400.	27200.
OCT	16	12000.	1958	33500.	1959	21274.		13100.	17500.	22400.	25600.	28300.
OCT	17	12000.	1954	36600.	1959	21645.		16000.	17400.	22700.	25600.	28000.
OCT	18	8660.	1958	37000.	1959	21825.		13800.	17900.	23800.	25700.	28200.
OCT	19	8350.	1958	37700.	1959	22051.		15500.	18100.	23600.	25800.	29100.
OCT	20	10000.	1958	37300.	1959	22042.		15600.	17600.	23100.	26000.	29200.
OCT	21	11500.	1958	37300.	1959	22039.		14800.	17500.	23000.	26700.	28900.
OCT	22	10400.	1955	37300.	1959	22097.		15600.	17700.	23100.	26500.	28800.
OCT	23	10200.	1955	37100.	1959	22308.		15400.	18500.	23500.	26700.	28800.
OCT	24	12000.	1952	37500.	1959	22900.		16400.	18100.	23700.	27100.	29900.
OCT	25	12400.	1954	37200.	1959	23276.		17100.	19500.	24100.	27100.	30700.
OCT	26	13400.	1954	38000.	1959	23318.		17300.	19200.	24000.	27200.	30700.
OCT	27	13900.	1955	37900.	1959	23037.		15700.	17600.	23800.	27200.	31300.
OCT	28	10600.	1955	37400.	1959	22984.		14800.	17700.	24500.	27100.	31800.
OCT	29	8780.	1963	37500.	1959	22894.		15600.	21500.	24300.	26100.	31800.
OCT	30	10300.	1955	38100.	1959	22674.		14500.	21400.	24100.	26000.	31600.
OCT	31	10600.	1955	40100.	1959	22921.		14300.	20200.	23600.	27100.	31800.

APR 1 1992
12395500

STATION PEND OREILLE RIVER AT NEWPORT, WA (1953-90) 12395500
FLOW DURATION TABLE

MON	DAY	MINIMUM	YEAR	MAXIMUM	YEAR	***** DAILY FLOW DATA *****		EXCEEDANCE FREQUENCY				
						AVERAGE	COUNT	0.90	0.75	0.50	0.25	0.10
NOV	1	11100.	1955	37600.	1959	22579.		15100.	18500.	23800.	26200.	29800.
NOV	2	9440.	1960	36000.	1959	21901.		13900.	17200.	23800.	26100.	30100.
NOV	3	9420.	1960	34700.	1959	22077.		14600.	18000.	23700.	26500.	30300.
NOV	4	10200.	1955	35000.	1959	21753.		14000.	17800.	23700.	25300.	30400.
NOV	5	9200.	1955	35500.	1959	21471.		12900.	16700.	22500.	25600.	30600.
NOV	6	9300.	1955	33300.	1959	21524.		13100.	16200.	23300.	26200.	29900.
NOV	7	10300.	1955	32000.	1959	21942.		15600.	18000.	23600.	26000.	28600.
NOV	8	9950.	1955	32000.	1959	22643.		15600.	20600.	24100.	26300.	28300.
NOV	9	9990.	1955	31300.	1975	22844.		16700.	20400.	24700.	25600.	30700.
NOV	10	10300.	1955	31100.	1975	22784.		16200.	20800.	24100.	26900.	28800.
NOV	11	12100.	1983	33500.	1985	22837.		15600.	20600.	23700.	27300.	29000.
NOV	12	11800.	1955	32400.	1985	22955.		15800.	20400.	23800.	27300.	30200.
NOV	13	10500.	1955	30600.	1989	22763.		16100.	19700.	24600.	26500.	30000.
NOV	14	11100.	1987	32300.	1989	22582.		15600.	19300.	24600.	27200.	30200.
NOV	15	10800.	1969	38900.	1955	22511.		14700.	18100.	21700.	27300.	32200.
NOV	16	10700.	1969	45200.	1955	22961.		16200.	19100.	21700.	27200.	31700.
NOV	17	11100.	1969	44900.	1955	23329.		16600.	18600.	24400.	27000.	29700.
NOV	18	16200.	1974	39900.	1955	23387.		17500.	18800.	23400.	27000.	29400.
NOV	19	16700.	1988	37200.	1968	23174.		18100.	19000.	22600.	26300.	29500.
NOV	20	13200.	1972	37300.	1968	22647.		17100.	19400.	21600.	27000.	30100.
NOV	21	10500.	1972	37300.	1968	21376.		15200.	17400.	20900.	25900.	29600.
NOV	22	12700.	1982	35000.	1968	20968.		14300.	16700.	20700.	25400.	29400.
NOV	23	12600.	1958	32700.	1959	20989.		15300.	16800.	20700.	25600.	30600.
NOV	24	12600.	1982	39600.	1959	21266.		15700.	17100.	20000.	25300.	30700.
NOV	25	13700.	1982	42400.	1959	21068.		15100.	16900.	20100.	25700.	30300.
NOV	26	12500.	1970	43800.	1959	21587.		14900.	17500.	20700.	25800.	30300.
NOV	27	12200.	1970	42100.	1959	21318.		15500.	17300.	20200.	25600.	30500.
NOV	28	11200.	1985	40000.	1959	21063.		15200.	16800.	20100.	26000.	30900.
NOV	29	8590.	1985	37900.	1959	20692.		14700.	16400.	20200.	24900.	29800.
NOV	30	11600.	1985	30900.	1959	19624.		14300.	15500.	18000.	23000.	28400.

NOV 30 1985

STATION PEND OREILLE RIVER AT NEWPORT, WA (1953-90) 12395500
FLOW DURATION TABLE

MON	DAY	MINIMUM	YEAR	MAXIMUM	YEAR	***** DAILY FLOW DATA *****		EXCEEDANCE FREQUENCY				
						AVERAGE	COUNT	0.90	0.75	0.50	0.25	0.10
DEC	1	8190.	1963	28600.	1965	18226.	13700.	14600.	17200.	21700.	28000.	
DEC	2	7320.	1963	29400.	1965	17574.	11700.	14400.	16400.	21300.	27800.	
DEC	3	6210.	1961	29100.	1965	17546.	10800.	14200.	16900.	21200.	26500.	
DEC	4	6660.	1988	28900.	1965	17779.	13300.	15100.	17800.	20600.	26400.	
DEC	5	7460.	1988	30200.	1975	18496.	13900.	15500.	18000.	22300.	26600.	
DEC	6	11500.	1988	30600.	1975	18663.	13900.	15400.	18100.	21900.	26100.	
DEC	7	10100.	1963	30600.	1975	18374.	14000.	15400.	17300.	21800.	26100.	
DEC	8	10700.	1963	31000.	1975	18366.	13700.	14900.	17600.	21500.	26100.	
DEC	9	10500.	1963	31100.	1975	18505.	13500.	15500.	17400.	21600.	26400.	
DEC	10	10000.	1972	29000.	1958	18974.	13400.	15500.	19100.	22100.	28100.	
DEC	11	12400.	1960	33800.	1985	19629.	14500.	15600.	18300.	21800.	27900.	
DEC	12	14000.	1982	34100.	1985	20134.	15300.	17300.	19000.	22000.	30600.	
DEC	13	10900.	1987	32900.	1958	19837.	15000.	16100.	19100.	23200.	30000.	
DEC	14	10200.	1987	33000.	1958	19287.	13600.	16700.	19000.	22100.	26100.	
DEC	15	12100.	1982	31100.	1975	19289.	14900.	16100.	19000.	22700.	25700.	
DEC	16	10500.	1960	30500.	1975	19045.	14500.	15600.	18800.	22100.	25900.	
DEC	17	6150.	1960	28800.	1975	18949.	14500.	15400.	19000.	22300.	26100.	
DEC	18	6440.	1960	28300.	1956	18864.	13800.	15900.	18500.	22300.	26800.	
DEC	19	12300.	1983	28400.	1962	19058.	13900.	15200.	19000.	22300.	28000.	
DEC	20	12300.	1983	28700.	1973	18887.	13800.	15700.	19000.	22200.	26400.	
DEC	21	12000.	1987	28700.	1973	18616.	13400.	16000.	17500.	21800.	26000.	
DEC	22	10600.	1985	29900.	1973	18916.	13400.	16000.	18700.	21300.	27900.	
DEC	23	13100.	1952	29800.	1973	19189.	14800.	16100.	19000.	21300.	28400.	
DEC	24	6840.	1982	28500.	1959	18046.	14700.	16000.	17700.	20500.	26900.	
DEC	25	5940.	1987	28000.	1959	16749.	13000.	14500.	17000.	19200.	24400.	
DEC	26	7330.	1982	27700.	1955	16557.	11700.	14400.	17100.	19100.	23400.	
DEC	27	8510.	1987	27200.	1955	16693.	12100.	14200.	17400.	19000.	23600.	
DEC	28	5510.	1980	27000.	1955	16553.	12100.	13400.	16800.	19800.	23500.	
DEC	29	5660.	1980	27300.	1955	16661.	12200.	13600.	16300.	21000.	22800.	
DEC	30	5730.	1980	25600.	1975	16859.	12400.	13900.	16700.	20700.	25300.	
DEC	31	5700.	1980	26400.	1983	16483.	11800.	13900.	16500.	19900.	24800.	

DEC 0 1988

State of Idaho
Department of Water Resources

- ROSTER OF ATTENDANCE -

Pg. ____

RE: PUBLIC HEARING - IN THE MATTER OF APPLICATION FOR PERMIT
NOS. 96-08730 and 96-08718

Date: July 17, 1997, 10:00 a.m.

Place: Washington Water Power Office
528 College Avenue
St. Maries, Idaho

Name and Address	Representing	Do you wish to testify as a Full party (show "FP") or Public witness (show "PW") or Not testify (Leave blank)	
Cindy Robertson P.O. Box 25 Boise 83707	IDFG	FP	
Marti Bridges P.O. Box 633, Boise 83701	Idaho Rivers United	FP	
JOHN M MILLER		—	

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APR 10 1998

State of Idaho
Department of Water Resources

- ROSTER OF ATTENDANCE -

Pg. ____

RE: PUBLIC HEARING - IN THE MATTER OF APPLICATION FOR PERMIT
NOS. 96-08730 and 96-08718

Date: July 16, 1997, 10:00 a.m.

Place: NRCS Federal Building
1500 Highway 2
Sandpoint, Idaho

Name and Address	Representing	Do you wish to testify as a Full party (show "FP") or Public witness (show "PW") or Not testify (Leave blank)
1. Bob Wathen P.O. Box 160 Clark Fork ID. Steve Fry	Washington Water Power 99220-3727	FP - will submit written comments
2. P.O. Box 3727 Spokane WA. Marti Bridges	Washington Water Power	FP
3. P.O. Box 633, Boise, ID	Idaho Rivers United	FP
4. 361 Evergreen Rd. Sandpoint ID. Bob Dunnagan	Trout Unlimited T. U. Inc.	yes! F.P.
John Bentley 5315 Millsap Loop Rd. Pest Falls, ID 83854	✓	~~FP~~ PW
Buell Hollister		PW
7. Bob Schloss	Corps of Engineers	F.P.
8.	Albion Falls Dam 2376 E HWY 2 Oldtown, ID 83822	208-437-3133
9.		

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APR 10 1998

**Testimony of Idaho Rivers United
Regarding Minimum Streamflow Water Rights
Numbers 96-08718, 96-08730, 91-07122 and 92-07200
Submitted by Marti L. Bridges, Water Policy Director
July 16-17, 1997**

Idaho Rivers United is a statewide river conservation group with over 1600 members who use and enjoy the Clark Fork, Pend Oreille, St. Joe and St. Maries Rivers. Our members fish, hike, raft, canoe, kayak, photograph, swim, view wildlife and pursue contemplative recreational activities along these rivers. In some cases, these rivers provide domestic water supplies to our members.

Each of these rivers possesses unique qualities, both biologically and recreationally, that must be protected. Securing minimum streamflow water rights aids in this protection. A river without water is not a river at all.

Clark Fork River - No. 96-08718

The Clark Fork River feeds Lake Pend Oreille. This river is home to white sturgeon, a threatened species. It is a river altered by fluctuating peaking flows for hydropower generation at Cabinet Gorge Dam. The Hungry Horse Dam in Montana also controls flows. It is a river increasingly polluted by mine runoff, agricultural, and logging practices. It is a river where maintenance of minimum streamflows is critical to sturgeon spawning, maintenance of fishery spawning and rearing habitats, and dilution of polluted runoff. While Idaho Rivers United does not advocate that dilution to pollution is the solution, adequate streamflow (water quantity) is inextricably intertwined with water quality. It is a river needing additional flows for recreation.

IRU supports the requested 9,335 cubic feet per second year round minimum streamflow on 8.4 miles starting at Cabinet Gorge Dam running downstream to Lake Pend Oreille. The request is based on the Tennant method (a.k.a. Montana method) which we feel adequately addresses minimum biological needs. However, Tennant Method does not adequately address recreational float boating requirements. Nor does Tennant take into account fluctuating flows. We recommend the Idaho Water Resource Board apply immediately for an additional minimum streamflow rights in the amount 10,000 cfs from April 15 through July 15 for recreational floatboating.

We recommend that the IWRB and hearing officer postpone final hearing recommendations until negotiations between Washington Water Power, the Tribes, states and interested publics are completed. The Water Board should become actively involved in Washington Water Powers relicensing effort at the Cabinet Gorge Dam to ensure the Idaho statutory minimum flow is considered in their FERC license agreement. This Idaho statutory minimum is the barest minimum for short term survival of fishery resources and is not the desirable minimum that Washington Water Power should be providing in its FERC license.

Pend Oreille River - No. 96-08730

Idaho Rivers United supports the Boards requested year round minimum streamflow of 10,655 cfs year round on a 2.4 mile reach from Albeni Falls Dam downstream to the Idaho state line. This flow will help protect fish and wildlife, water quality and recreational uses of the river.

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St. Joe River - No. 91-07122

The St. Joe River is one of North Idaho's jewels. It is nationally recognized as a superb trout stream and draws anglers from many locations. It is the highest navigable stream in the US and perhaps the world. It is nationally significant and has been designated under the federal Wild and Scenic Rivers Act. It provides outstanding opportunities for flatwater canoeing on its lower reaches and incredible Class III and IV whitewater kayaking and rafting on its upper reaches. The "shadowy St. Joe" is where I personally spent much of my time during the three years I lived and worked around St. Maries for the Soil Conservation Service.

Idaho Rivers United supports the request for 942 cfs from November 1 to July 31 and 470 cfs from Aug. 1 to Oct. 31 on the 36 mile segment which starts at the confluence of the St. Joe and Marble Creek, ending at the confluence of the St. Joe and St. Maries rivers. We also recommend the Board immediately file for an additional minimum streamflow water right in the amount of 1000 cfs from April 15 through June 15 to protect recreational boating. The current request is insufficient to meet basic safe boating flows. A total of 1900 cfs will provide the minimum flow necessary for unimpaired and safe boating and will more closely mimic the natural hydrograph. The additional 1000 cfs is not an optimal boating flow, but rather a minimum safe boating flow. My request for additional flows is based on personal experience both kayaking, rafting and canoeing all reaches clear to Avery. Additionally, information was obtained from Idaho Whitewater, the Complete River Guide, by Don McClaran and Greg Moore, 1989.

St. Maries River - No. 92-07211

The St. Maries River is not particularly well known beyond the bound of the local area. Folks from Santa, Fernwood, Emida, and St. Maries seem to be the historic users. In the mid-1980's to the present, more and more kayakers from Coeur d'Alene, Spokane, and Moscow have found out what a great early season whitewater run this can be. I know, I was one of the ones who went exploring it my first spring living in Santa in 1984.

This river corridor has an abundance of fish and wildlife. It is common to see elk, deer, osprey and numerous waterfowl on any given trip. The river corridor is relatively intact, save some grazing and logging activity.

Idaho Rivers United supports the requested 141 cfs from December 1 to July 31 and 65 cfs from August 1 to November 30. The 25 mile reach starts at the confluence of the West and Middle Forks of the St. Maries downstream to the confluence with John Creek. We further request the board immediately file for an additional minimum streamflow water right in the amount of 650 cfs from April 1 to May 31 to protect safe recreational boating. The stream reach for the subsequent flow would be from the confluence of John Creek to the confluence with the St. Joe River. This appropriation begins where the original minimum streamflow application terminates. 650 cfs is 200 cfs less than the average flow of 850 cfs in April and May.

We appreciate the opportunity to provide testimony on these important streamflows. We would also like to note for the record that these flow requests are a direct result of suggestions by a bi-partisan Governor's Task Force. The Task Force felt it was important to protect flows for all Idahoans and to prevent these flows from being appropriated by out-of-state interests. We concur with the Task Force recommendations for streams to be protected in North Idaho and applaud the Idaho Water Resource Board for moving forward with these water right applications.

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North Idaho Minimum Streamflows for Recreation

St. Joe, St. Maries, and Clark Fork Rivers

Executive Summary

The Idaho Water Resource Board applied in June, 1992 to appropriate the waters of the state on several stream segments in North Idaho. Idaho Rivers United and numerous other individuals and agencies testified or submitted comments in support of the requested minimum flows for the Priest, Moyie, Lochsa, Selway, Pack and Middle Fork Clearwater Rivers. The St. Joe, St. Maries, Pend Oreille and Clark Fork Rivers go to public hearings on July 16 and 17, 1997 and the Priest River will be the subject of a public meeting on July 23, 1997. Previously, the Priest River was denied a minimum streamflow water right.

These requested flows are intended to protect fishery and wildlife habitat, water quality, and aesthetics. They should also protect recreational float boating where applicable. All of the requests for Minimum Streamflows in North Idaho show a conspicuous absence of adequate minimum flows for recreational kayaking, canoeing or floatboating. The North Idaho Minimum Streamflow requests were based on the Tennant Method (aka Montana method). Tennant Method has been successfully used to determine minimum flow regimes for fisheries. However, Tennant Method does not adequately address recreational float boating requirements because Tennant Method only relates to biological criteria.

To that end, Idaho Rivers United recommends the Idaho Water Resource Board make application immediately for those supplemental Minimum Streamflows needed for river floating recreation activities i.e. canoeing, kayaking, rafting. We recognize these additional flows will be junior to the original application. However, we believe this "error of omission" can be adequately remedied by applying for these supplemental flows, if done so immediately.

We recommend the Idaho Water Resource Board make application to appropriate the following additional flows:

St. Joe River - from the confluence with Marble Creek to the confluence with the St. Maries River.

The IWRB should appropriate an additional 1000 cfs from April 15 through June 15 to protect recreational boating purposes. This would provide a minimum of about 1900 cfs which will provide the minimum flow necessary for unimpaired and safe boating. This is one of the most beautiful rivers in the northern part of the state. Reaches upstream from Marble Creek are commercially rafted and the river is very popular with kayakers and canoeists. In addition, this river is nationally and regionally significant as a component of the federal Wild and Scenic River system. This request is based in part on information obtained from "Idaho Whitewater, the Complete River Guide," by Don McClaran and Greg Moore, 1989.

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APR 10 1998

St. Maries River - the confluence of John Creek to the confluence with the St. Joe River. This appropriation begins where the original minimum streamflow application terminates, in order to protect recreational floating opportunities in the downstream river reach.

The IWRB should appropriate 650 cfs from April 1 through May 31 to protect recreational boating. The St. Maries river has gained in popularity as a spring runoff kayak run amongst regional river runners. People come from Spokane, Coeur d'Alene, and Moscow to enjoy this primarily roadless (the railroad is adjacent to the river) Class III run. In the three years I lived in North Idaho I ran this reach as early as February 15 and as late as the first week of June. The river is extremely rocky and becomes hazardous at flows under 400 cfs. The minimum safe level for most intermediate level kayakers is about 650 cfs. This request is based on information obtained from "Idaho - The Whitewater State," by Grant Amaral and personal experience.

Clark Fork River - from the Cabinet Gorge Dam downstream to Lake Pend Oreille.

The IWRB should appropriate an additional 10,000 cfs from April 15 through July 15 for recreational floatboating.

The requested additional minimum flows are the minimum to safely float the river, not the ideal or optimum flows.

River	Additional Flow Requested	Time Frame
St. Joe	1000 cfs	April 15 to June 15
St. Maries	650 cfs	April 1 to May 31
Clark Fork	10,000 cfs	April 15 to July 15

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7/13/97

Glen Saxton
Idaho Water Resources Board
PO Box 83720
Boise, ID 83720

Dear Mr. Saxton,

I am in support of the requested minimums flows for the Clark Fork, Pend Oreille, St. Joe and St. Maries Rivers. The levels of flows are as follows:

St. Joe River- 941 cubic feet per second (cfs) from November 1 to July 31 and 470 cfs from August 1 to October 31. The 36 mile segment starts at the confluence of the St. Joe and Marble Creek, ending at the confluence of the St. Joe and the St. Maries Rivers.

Clark Fork River- 9,335 cfs year round on 8.4 miles starting at Cabinet Gorge Dam running down stream to Lake Pend Oreille.

St. Maries River- 141 cfs from December 1 to July 31 and 65 cfs from August 1 to November 30. The 26 mile reach starts at the confluence of the West and Middle Forks of the St. Maries downstream to the confluence with John Creek.

Pend Oreille River- 10,665 cfs year round on a 2.4 mile reach from Albion Falls Dam downstream to the Idaho state line.

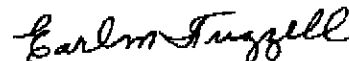
I am very concerned about the St. Joe River. I fish and raft the river and believe it is one of the last healthy fisheries for West Slope Cutthroat and Bull trout. The minimum flow will protect this fishery wildlife habitat, water quality and aesthetics.

My use of the Clark Fork, St. Maries, and Pend Oreille rivers is limited in Idaho. I float and fish the Clark Fork in Montana on a regular basis. Again these rivers need to have a minimum flow to protect these fisheries, wildlife habitat, water quality and aesthetics.

Having a lesser water right status for minimum flow rights should be corrected by efforts through the Water Resource Board (IWRB). If minimum streamflow laws are to have meaning to protect fish and wildlife values, water quality, and aesthetics these rights should not be subordinate to all other rights. I am asking the IWRB to work toward changing this portion of the law so water rights today will be secure in the future.

I wish to thank the IWRB for there work in protecting the public interest in instream uses of water and continue by make minimum flow rights equal to other water right holders.

Sincerely,



Earl M. Frizzell
Conservation Chairman
North Idaho Fly Casters
2205 Monte Vista
Coeur d'Alene, ID 83814

MICROFILMED

APR 10 1998

Dear Idaho Water Resource Board members, July 14,1997

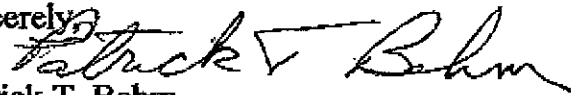
I am writing to encourage you to set appropriate minimum stream flows on all four of the North Idaho rivers being considered. There is ever increasing pressure on our water resources. If we do not act responsibly now while we have the chance then our few remaining healthy rivers will quickly loose there ability to stay healthy. The way we use water will have to change soon.

Please don't back down on the 9,335 cubic feet per second flow request for the Clarks Fork River, with an additional 10000 cfs 4/15- 7/15. WWP should be operating the Cabinet Gorge Damn by Water Board standards with the needs of the river in mind ahead of any company priorities. I enjoy canoeing the Clark Fork Delta which is a flourishing nesting ground for all local duck species. They need your vote to keep those riparian zones in tact.

I have Kayaked and canoed many sections of the St. Joe and the St. Maries rivers. The spring runs are typically early and short. I urge you to support proposed flows; 941 cfs 11/ 1 - 7-31 and 470 cfs from 8/1- 10/31 with an additional 1000 cfs from 4/15-7/15 on the St. Joe. The St. Maries River needs supported flows of 141 cfs from 12/1-7/31 and 65 cfs from 8/1- 11/30, with an additional 650 cfs from 4/1-5/31. Any diversion of these waters would have a big impact on the rivers health and it's recreational viability. The bull trout are already in serious trouble. Other fish species will be threatened if we don't shut the door on water resource abuse.

The proposed streamflows for the Pend Oreille River should be 10655 cfs year round from Albeni Falls Dam downstream to the Id. border . I realize these flows could be improved upon for my particular interest, but I would be satisfied with these MINIMUM flow levels to sustain quality values. Thank you for taking the time to consider my input. I truly believe that healthy water sheds are priceless and therefore should not be for sale.

Sincerely,



Patrick T. Behm
1624 Fairmont Lp.
Coeur d'Alene, ID 83814

MICROFILMED

APR 10 1998

No. 7/14/97

To: ID. Water Resource Board
 attn: Glen Saxton (fax 208-327-7866)

Thanks for the opportunity to submit written testimony regarding minimum streamflow requests, which in itself lends credibility to IWRB efforts to protect the overall public interest regarding this important topic before us today. When I lived in St. Maries in the 80's, I started kayaking. Along the St. Joe River, in late afternoons, I saw a lot of wildlife coming down to get water, while I quietly floated by. My comments reflect two key river quality issues to me, the outstanding recreational local kayaking and protecting wildlife qualities in the Panhandle area.

The St. Joe River is part of the Wild and Scenic River System, and has national recognition already. Surge appropriations of MSF to include an additional 1000 cfs from April 15 - Jun 15, plus the 941 cfs from 11/1 - 7/31 and 470 cfs from 8/1 - 10/31. Trout fishing is another important consideration for this particular River. These flows would provide minimum flow necessary for safe boating and protection of wildlife habitat.

The St. Maries kayak river run was the first section of class III paddling I did when there was still snow on the ground. Since it's particularly rocky and such an early run, surge the IWRB to support proposed flows of 141 cfs from 12/1 - 7/31 and 65 cfs 8/1 - 11/30, while appropriating an additional 650 cfs 4/1 - 5/31 for the early season run.

The Clark Fork would be sustained as early as April with additional 10,000 cfs 4/15 - 7/15, while supporting proposed flows of 9,325 cfs year round starting at the Cabinet Gorge dam downstream into Ft. Pend Oreille.

Regarding this stretch, surge IWRB to firm up its approach to set limits with WWP thru relicensure regulations to assure compliance with these streamflow requests!

Lastly, Pend Oreille River should be allocated year round to 10,655 cfs from Albeni Falls down to St. These rivers are accessible to me, so out of convenience I tend to be more familiar with them. Remember, those flows do NOT necessarily mean OPTIMAL flows desired.

MICROFILMED

APR 10 1998

1624 Fairmont Ln.



RECEIVED

JUL 08 1997

Department of Water Resources

IDAHO FISH & GAME

600 South Walnut / Box 25
Boise, Idaho 83707-0025

Philip E. Batt, Governor
Stephen P. Mealey, Director

July 7, 1997

Mr. Glen Saxton
Idaho Department of Water Resources
1301 North Orchard Street
Boise, ID 83706

RE: Notice of Appearance for instream flow hearings on the Clark Fork, Pend Oreille,
St. Maries, St. Joe rivers

Dear Mr. Saxton:

The Department of Fish and Game (Department) requests permission to appear as a formal witness at the above referenced hearings scheduled for July 16th and 17th, in Sandpoint and St. Maries, ID. Department personnel will present testimony in favor of the four proposed instream flow applications. Thank you for consideration of our request.

Sincerely,

Cindy Robertson

Cindy Robertson
Staff Fishery Biologist

APR 10 1998



June 30, 1997

Glen Saxton
Hearing Officer
Idaho Dept of Water Resources
1301 N. Orchard
Boise, ID 83706

RECEIVED

JUL 02 1997

Department of Water Resources

Dear Mr. Saxton:

This letter serves as notice of my intent to formally appear at the minimum streamflow hearings scheduled in North Idaho at Sandpoint on July 16 and St. Maries on July 17. I will be representing Idaho Rivers United and our 1600 members.

Thank you.

Sincerely,

Marti L. Bridges

Marti L. Bridges
Water Policy Director

EXECUTIVE DIRECTOR

Wendy L. Wilson
Boise

BOARD OF DIRECTORS

Gail Ater
Gooding

Diane Bilyeu
Pocatello

Bill Davidson
Pocatello

Maria Eschen, Ph.D.
Boise

Amy Haak
Boise

M. Keene Hueftle, Ed.D.
Pocatello

Bruce Johnstone
Boise

Jerry Myers
Salmon

Dr. Stephen Pauley
Ketchum

Dr. Charles Pezeshki
Troy

Gerald Sehlke
Idaho Falls

Tom Stuart

Wlodek Szczepanowski

Curtis Webb
Twin Falls

MICROFILMED

APR 10 1998



State of Idaho

DEPARTMENT OF WATER RESOURCES

1301 North Orchard Street, Statehouse Mail, Boise, Idaho 83720-9000

Phone: (208) 327-7900 FAX: (208) 327-7866

PHILIP E. BATT
GOVERNOR

KARL J. DREHER
DIRECTOR

June 11, 1997

RE: APPLICATIONS FOR MINIMUM STREAM FLOW NOS. 96-08730, 96-08718,
91-07122 and 92-07200

Dear Interested Parties:

Enclosed is a copy of a legal notice, which announces planned public hearings in connection with the above referenced applications to establish minimum stream flows. The information contained in the notice should be clear and will provide sufficient information for you. Copies of the applications are on file and available for review at the department's Northern Regional Office in Coeur d'Alene, and at the state office in Boise.

You may contact either office if you have questions or require additional information. My direct phone number in Boise is (208) 327-7955. You can contact the Northern Regional Office at (208) 769-1450.

Sincerely,

L. GLEN SAXTON, Chief
Water Allocation Bureau

C: See attached distribution list

RECEIVED

APR 10 1998

CLARENCE PARR
IWRB
1009 S RIVER DR
HEYBURN ID 83336

ERVAL RAINEY
IWRB
1319 MATHISON DR
SANDPOINT ID 83864

BOB GRAHAM
IWRB
6808 MARX CT
BONNERS FERRY ID 83805

TERRY T UHLING
IWRB
JR SIMPLOT CO
999 MAIN ST STE 1300
BOISE ID 83707

SEN SHAWN KEOUGH
523 HUMMINGBIRD
SANDPOINT ID 83864

REP JOHN L CAMPBELL
1509 CEDAR ST
SANDPOINT ID 83864

REP JIM STOICHEFF
615 LAKEVIEW
SANDPOINT ID 83864

SEN CLYDE BOATRIGHT
N 17520 WRANGLER RD
RATHDRUM ID 83858

REP HILDE KELLOGG
PO BOX 1479
POST FALLS ID 83854-1479

REP WAYNE R MEYER
E 100 LANCASTER
RATHDRUM ID 83858

SEN GORDON F CROW
10282 HILLVIEW DR
HAYDEN ID 83835-9236

REP JIM CLARK
8665 N CLARKVIEW PL
HAYDEN ID 83835

REP JEFF ALLTUS
2465 UPPER HAYDEN LAKE RD
HAYDEN ID 83835

SEN JACK RIGGS
801 S 11TH
COEUR D ALENE ID 83814

REP LARRY WATSON
59988 SILVER VALLEY RD
WALLACE ID 83874

REP DON PISCHNER
PO BOX 7
COEUR D ALENE ID 83816

SEN LAIRD NOH
3442 ADDISON AVE E
KIMBERLY ID 83341

REP GOLDEN C LINFORD
2120 W 4200 S
REXBURG ID 83440

KOOTENAI TRIBE OF IDAHO
PO BOX 1269
BONNERS FERRY ID 83805

COEUR D ALENE TRIBE OF IDAHO
PO BOX 408
PLUMMER ID 83851

MICROFILMED

APR 10 1988

NOTICE OF HEARINGS FOR MINIMUM STREAM FLOW APPLICATIONS

Notice is hereby given that on June 15, 1992, the Idaho Water Resource Board filed four (4) applications for permit with the Department of Water Resources (IDWR) to preserve minimum streamflows for the protection of fish and wildlife habitat, aquatic life and recreational values as follows:

Application No. 96-08718

Source: Clark Fork River tributary to Pend Oreille Lake
Reach: 8.4 miles beginning at Cabinet Gorge Dam in the NWSE Section 27, T55N, R3E, B.M. downstream to Lake Pend Oreille in SW1/4 Section 3, T55N, R2E, B.M.
Rate of flow: 9,335 cubic feet per second (cfs) year-round

Application No. 96-08730

Source: Pend Oreille River tributary to Columbia River
Reach: 2.4 miles beginning at Albeni Falls Dam in the NWNW Section 29, T56N, R5W, B.M. downstream to the state line on the west side of Sections 13 and 24, T56N, R6W, B.M.
Rate of flow: 10,655 cfs year-round

Application No. 91-07122

Source: St. Joe River tributary to Coeur d'Alene Lake
Reach: 36 miles beginning at a point in NENENW Sec. 13, T45N, R3E, B.M. at the confluence of the St. Joe River with Marble Creek and ending at the confluence of St. Joe River with the St. Maries River in SENESW Sec. 23, T46N, R2W, B.M.
Rate of flow: 941 cfs from Nov. 1 to July 31, and
470 cfs from August 1 to October 31

Application No. 92-07200

Source: St. Maries River tributary to St. Joe River
Reach: 26 miles beginning at a point in the SWSWNE Section 6, T42N, R2E, B.M. at the confluence of the West and Middle Forks of the St. Maries River downstream to the confluence with John Creek in the SENENW Section 33, T45N, R2W, B.M.
Rate of flow: 141 cfs from December 1 to July 31
65 cfs from August 1 to November 30

MICROFILMED

APR 10 1998

IDWR will hold public hearings as required in Section 42-1503, Idaho Code, for the purpose of receiving evidence and testimony in regard to the applications as follows:

Applications: 96-08718 and 96-08730
Date and time: July 16, 1997, at 10:00 a.m.
Place: NRCS Federal Building
1500 Hwy 2
Sandpoint, Idaho

Applications: 91-07122 and 92-07200
Date and time: July 17, 1997 at 10:00 a.m.
Place: Washington Water Power
528 College Ave.
St. Maries, Idaho

Any party who wishes to formally appear in the hearings for the purpose of presenting evidence and testimony or cross-examining witnesses should file a notice of appearance with the Director of IDWR, Statehouse Mail, Boise, Idaho 83720, Attn: L. Glen Saxton, five (5) days prior to the hearing. Other parties may informally present their views and comments without filing a notice of appearance. Informal written views and comments may also be submitted to IDWR prior to the hearing.

The hearings will be conducted in a facility which meets the accessibility requirements of the Americans with Disabilities Act. If you require special accommodations in order to attend, participate in or understand the hearing, please advise IDWR at least (10) days prior to the hearing. The hearing will be conducted by L. Glen Saxton, IDWR, Statehouse Mail, Boise, ID 83720, telephone (208)327-7900

If issued, these permits will be subject to all prior water rights.

Karl J. Dreher
Director, IDWR

MICROFILMED

APR 10 1998

5/20/93 - Sandpoint (6)
5/24/93 - CdA/aw (9)
5/25/93 - mason (8)

7/20/93 - St Maria (5)

7/43/93 = Kenial (6)
7/17/93 - Lewis (11)

North Idaho
Min 5 Floors.

Water Board
Public Meeting.

AFFIDAVIT OF PUBLICATION

State of Idaho

ss.

County of Bonner, Linda Ramsey
 being duly sworn, says that he is the General Manager
 of the PRIEST RIVER TIMES, a weekly newspaper printed and
 published at Priest River, Bonner County, Idaho, and has been con-
 tinuously and uninterruptedly published in said County during a period
 of 78 consecutive weeks prior to the first publication of the annexed
 notice for publication, is a newspaper of general circulation made up of
 at least eight pages of at least six columns each, printed from typeset-
 ting or stereotyped forms of at least nineteen and three-fourths inches
 in length, has at least 1250 bona fide subscribers living within said Bonner
 County, and is published at regular weekly intervals. That the annexed
 is a true copy of the notice for publication in the case of

#1432 - Public Information Meeting

as it was published in the regular and entire issue of the
 said paper for a period of 2 consecutive weeks,
 commencing on 12th day of May, 1993
 and ending on the 19th day of May, 1993
 and that said notice was published in said newspaper.

On this 3rd day of June in the year
 of 1993, before me, a Notary Public, personally
 appeared _____,

known or identified to me to be the person whose name
 subscribed to the within instrument, and being by me first
 duly sworn, declared that the statements therein are true,
 and acknowledged to me that he executed the same.

[Signature]
 Notary Public for Idaho

Residing at Priest River

My commission expires: 12/21/98

APR 10 1998

MEETING MINIMUM STREAMFLOWS

The Idaho Water Resource Board
 will hold public information meet-
 ings on May 24 in the Community
 Room at the Kootenai County Exten-
 sion Office, 106 E. Dalton Ave.
 Coeur d'Alene; and on May 25 in the
 Gold room at the Student Union
 Building, University of Idaho,
 Moscow. Both meetings will begin at
 7:00 p.m.

These are part of a series of informa-
 tion meetings to be held in north
 Idaho addressing minimum stream-
 flow applications filed by the Water
 Board on the Kootenai, Moyie,
 Priest, Pack, Pend Oreille, Clark
 Fork, Spokane, Coeur d'Alene, St.
 Joe, St. Maries, Clearwater, Selway,
 and Lochsa Rivers.

Individuals who may need special
 assistance due to a disability should
 contact Frank Sherman at the Idaho
 Department of Water Resources,
 Statehouse, Boise 83720 at least five
 days in advance so arrangements
 can be made.

#1437 PRT May 12, 19, 1993

RECEIVED

JUN 07 1993

NORTHERN REGION
 IDWR

AFFIDAVIT OF PUBLICATION

State of Idaho

ss.

County of Bonner,

Earlene Bennett

being duly sworn, says that he is the Advertisement Rep.

the PRIEST RIVER TIMES, a weekly newspaper printed and published at Priest River, Bonner County, Idaho, and has been continuously and uninterruptedly published in said County during a period of 78 consecutive weeks prior to the first publication of the annexed notice for publication, is a newspaper of general circulation made up of at least eight pages of at least six columns each, printed from typewriter or stereotyped forms of at least nineteen and three-fourths inches in length, has at least 1250 bona fide subscribers living within said Bonner County, and is published at regular weekly intervals. That the annexed is a true copy of the notice for publication in the case of

#1434 - Public Information Meeting

as it was published in the regular and entire issue of the said paper for a period of 2 consecutive weeks, commencing on 5th day of May, 1993 and ending on the 12th day of May, 1993 and that said notice was published in said newspaper.

On this 25th day of May in the year of 1993, before me, a Notary Public, personally appeared Earlene Bennett.

known or identified to me to be the person whose name subscribed to the within instrument, and being by me first duly sworn, declared that the statements therein are true, and acknowledged to me that he executed the same.

Notary Public for Idaho

Residing at _____

My commission expires: _____

NOTICE OF IDAHO WATER RESOURCE BOARD PUBLIC INFORMATION MEETING

The Idaho Water Resource Board will hold a public information meeting at 7:30 p.m. at the Edgewater Inn, 56 Bridge St., Sandpoint on May 20, 1993.

This will be the first in a series of public information meetings in the region addressing minimum stream-flow applications filed by the Water Board on streams in northern Idaho. Of particular interest to residents of the Sandpoint area are minimum flow applications filed on the Pend Oreille, Pack, Clark Fork, Priest, Moyie, and Kootenai rivers. Individuals who may need special assistance due to a disability should contact Frank Sherman at the Idaho Department of Water Resources, Statehouse, Boise 83720 at least five days in advance so arrangements can be made.

#1434 PRT May 5, 12, 1993

RECEIVED

JUN 07 1993

NORTHERN REGION
IDWR

MICROFILMED

APR 10 1998

Affidavit of Publication

STATE OF IDAHO

County of Benewah, ss.

Cynthia Ann Hammes, being first duly sworn on oath, deposes and says that she is vice president of The Corporation, owner of the St. Maries Gazette Record, a weekly newspaper printed and published at St. Maries, Benewah County, State of Idaho; the St. Maries Gazette Record is a newspaper having general circulation in Benewah County, State of Idaho, and has been continuously and uninterruptedly published in Benewah County, State of Idaho, during a period of more than seventy-eight consecutive weeks prior to the first publication of the notice of advertisement hereon.

That the notice, of which the one hereto attached is a true copy, was published in said newspaper for a period of 2 issues, the first publication being on the 15th day of May, 1993 and the last on the 17th day of May, 1993.

That said newspaper was regularly distributed to its subscribers during the time of the same period; that said notice was published in the regular and entire issue of said paper.

Dated this 28th day of May, 1993
Cynthia Ann Hammes

STATE OF IDAHO
COUNTY OF BENEWAH }

On this 28th day of May, in the year of 1993, before me, a Notary Public, personally appeared Cynthia Ann Hammes, known or identified to me to be the person whose name subscribed to the within instrument, and being by me first duly sworn, declared that the statements therein are true, and acknowledged to me that she executed the same.

Sharon D. Blackburn
Notary Public for Idaho
Residing at St. Maries, Id.
My commission expires: Nov 4, 1998

Idaho Water Resource
board sets May 24 meet

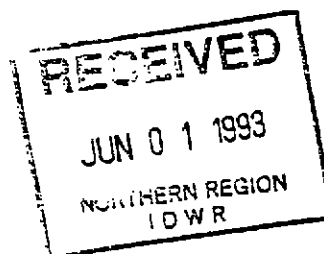
PUBLIC INFORMATION
MEETING

MINIMUM STREAMFLOWS

The Idaho Water Resource Board will hold public information meetings on May 24 in the Community Room at Kootenai County Extension Office, 106 E. Dalton Ave., Coeur d'Alene; and on May 25 in the Gold room at the Student Union Building, University of Idaho, Moscow. Both meetings will begin at 7:00 p.m.

These are part of a series of information meetings to be held in north Idaho addressing minimum streamflow applications filed by the Water Board on the Kootenai, Moyie, Priest, Pack, Pend Oreille, Clark Fork, Spokane, Coeur d'Alene, St. Joe, St. Maries, Clearwater, Selway and Lochsa Rivers.

Individuals who may need special assistance due to a disability should contact Frank Sherman at the Idaho Department of Water Resources, Statehouse, Boise 83720 at least five days in advance so arrangements can be made.
No. 2078 — May 12-19.



RECORDED

APR 10 1998

AFFIDAVIT OF PUBLICATION

State of Idaho

ss.

County of Boundary,

BOB MILLER being first duly sworn on oath
deposes and says that he/she is MANAGER
of the Bonners Ferry Herald, a newspaper printed and
published at Bonners Ferry, Boundary County, Idaho; that
the said newspaper has been continuously and
uninterruptedly published in said Boundary County during
a period of 12 months prior to the first publication of the
hereto attached notice of publication in the case of:

LEGAL# 2476

as it was published in the regular and entire issue of the
said paper for a period of 2 consecutive weeks,
commencing on 5 day of May, 1993
and ending on the 12 day of May, 1993
and that said notice was published in said newspaper.

Dated: 5/13/93

Bob Miller
Subscribed and sworn to before me this 14 day
of May, 1993

Kimberly M. Haworth
Notary Public for Idaho

Residing at BONNERS FERRY

My Commission expires: 11/08/97

NOTICE OF IDAHO
WATER RESOURCE BOARD
PUBLIC INFORMATION
MEETING

The Idaho Water Resource Board
will hold a public information meet-
ing at 7:30 p.m. at the Edgewater
Inn, 56 Bridge St., Sandpoint on May
20, 1993.

This will be the first in a series of
public information meetings in the
region addressing minimum stream-
flow applications filed by the Water
Board on streams in northern Idaho.

Of particular interest to residents of
the Sandpoint area are minimum
flow applications filed on the Pend
Oreille, Pack, Clark Fork, Priest,
Moyie, and Kootenai rivers.

Individuals who may need special
assistance due to a disability should
contact Frank Sherman at the Idaho
Department of Water Resources,
Stitchhouse, Boise 83720 at least five
days in advance so arrangements
can be made.

BFH#2476 May 5, 12, 1993

RECEIVED

JUN 04 1993

NORTHERN REGION
IDWR

RECORDED

APR 10 1993

AFFIDAVIT OF PUBLICATION

State of Idaho

ss.

County of Bonner,

Mike Burns being first duly sworn on oath
deposes and says that he/she is Bookkeeper
of the Bonner County Daily Bee, a newspaper printed and
published at Sandpoint, Bonner County, Idaho; that the
said newspaper has been continuously and uninterruptedly
published in said Bonner County during a period of 12
months prior to the first publication of the hereto attached
notice of publication in the case of:

Legal Notice

as it was published in the regular and entire issue of the
said paper for a period of 2 consecutive weeks,
commencing on 6 day of May, 1993
and ending on the 13 day of May, 1993
and that said notice was published in said newspaper.

On this 14 day of May in the year
of 1993, before me, a Notary Public, personally
appeared Mike Burns,
known or identified to me to be the person whose name
subscribed to the within instrument, and being by me first
duly sworn, declared that the statements therein are true,
and acknowledged to me that he executed the same.

Karel Meeler
Notary Public for Idaho

Residing at Sandpoint

My commission expires: 5-3-99

APR 10 1998

NOTICE OF IDAHO WATER RESOURCE BOARD PUBLIC INFORMATION MEETING
The Idaho Water Resource Board will hold a public information meeting on May 20, 1993, at 3:30 p.m. at the Fagrawater Department of Water Resources, 56 Bridge St., Sandpoint, Idaho 83720. The purpose of the meeting is to provide information to the public regarding the Board's role in the management of water resources in the state of Idaho. The Board is currently reviewing applications for water rights in the Sandpoint area and the public is invited to attend the meeting to provide input. For more information, contact Frank Sherman at the Idaho Department of Water Resources, Boise 83720 at least five days in advance, so arrangements can be made. SN#5393 May 6, 13, 1993 (3) (16)

TRIBUNE PUBLISHING COMPANY, INC.

The Lewiston Morning Tribune
505 C St., P.O. Box 957
Lewiston, Idaho 83501
(208) 743-9411

Date 06-10-72 INVOICE No. 000349-00

Account No. 924770 **BEANFLOW**

Description	2#429FUEL
-------------	-----------

Times 2 Lines 20

Tab Lines _____

\$ 31.50

LEGAL ADVERTISING INVOICE

SOLD TO:

WATER RESOURCES
1601 N. ORCHARD ST.
BOISE
-10 86726

NOTICE: This is an invoice of Purchase made by you. Statement will be rendered the first of the month.
Please Retain This Invoice as Your Statement Will Refer To Invoice by No. Only.

AFFIDAVIT OF PUBLICATION

STATE OF IDAHO, ss.
County of Nez Perce

Karen J. Lewis, being duly sworn.

deposes and says, I am the Legal Clerk
of the Tribune Publishing Company, a corporation organized and existing
under and by virtue of the laws of the State of Idaho, publishers of the
LEWISTON MORNING TRIBUNE, a newspaper of general circulation
published at Lewiston, Nez Perce County, Idaho; That the said Lewiston
Morning Tribune is an established paper and has been published regular-
ly and issued regularly at least once a day for more than 21 consecutive
years next immediately preceding the first publication of this notice, and
has been so published uninterrupted for said period; that the

SHED TO INFORMATION MEETING

attached hereto and which is made a part of this affidavit was published in the said Lewiston Morning Tribune, _____ time(s). Publication beginning on 051393 or once a

publication thereof being on the 081893, and the last publication thereof being on the 082093, and said

PUBLIC INFORMATION MEETING

was so published in the regular and entire issue of said newspaper and not in a supplement thereof and was so published in every issue and number of the said paper, during the period and times of publication as set forth above.

Karen J. Lewis

SUBSCRIBED AND SWORN BEFORE ME THIS THE 20
day of MAY 1993

Notary Public in and for the State of Idaho
residing at Lewiston, therein.

**PUBLIC INFORMATION MEETING
MINIMUM STREAMFLOWS**

The Idaho Water Resource Board will hold public information meetings on May 24 in the Community Room at the Kootenai County Extension Office, 106 E. Dalton Ave., Coeur d'Alene and on May 25 in the Gold room at the Student Union Building, University of Idaho, Moscow. Both meetings will begin at 7:00 p.m.

These are part of a series of information meetings to be held in north Idaho addressing minimum streamflow applications filed by the Water Board on the Kootenai, Moyie, Priest, Pack, Pend Oreille, Clark Fork, Spokane, Coeur d'Alene, St. Joe, St. Maries, Clearwater, Selway, and Lochsa Rivers.

Individuals who may need special assistance due to a disability should contact Frank Sherman at the Idaho Department of Water Resources, Statehouse, Boise 83720 at least five days in advance so arrangements can be made.

1400-1800

APR 10 1958

RECEIVED

MAY 26 1993

Affidavit of Publication

STATE OF IDAHO
County of Latah

ss.

Lorraine Hudson
Legal Clerk

being first duly sworn, on oath,
deposes and says:

That she is the printer of
Moscow-Pullman Daily News, a
newspaper of general circulation,
printed and published daily except
Sunday at Moscow, Latah County,
Idaho, in compliance with Sections
60-106, 60-107, and 60-108 of the
Idaho Code and the amendments
thereto; that the notice of which the
annexed is a full, true and correct
printed copy was published in the
regular and entire issues of said
newspaper and not in a supplement
thereto, upon the following dates:

May 13, 20,
1993

the same being the dates designated
for the publication of said notice.

On this 24 day of May
in the year of 1993, before me, a Notary

Public, personally appeared

Lorraine Hudson

known or identified to me to be the person whose
name subscribed to the within instrument, and
being by me first duly sworn, declared that the
statements therein are true, and acknowledged to
me that he executed the same.

Ann Marie Eble
Notary Public for Idaho

Residing at Moscow ID

My commission expires: 5/1/98

PUBLIC INFORMATION MEETING MINIMUM STREAMFLOWS

The Idaho Water Resource Board
will hold public information meet-
ings on May 24 in the Community
Room at the Kootenai County Extension
Office, 106 E. Dalton Ave., Co-
eur d'Alene; and on May 25 in the
Gold room at the Student Union
Building, University of Idaho, Mos-
cow. Both meetings will begin at
7:00 p.m.

These are part of a series of infor-
mation meetings to be held in north
Idaho addressing minimum stream-
flow applications filed by the Water
Board on the Kootenai, Moyie,
Priest, Pack, Pend Oreille, Clark
Fork, Spokane, Coeur d'Alene, St.
Joe, St. Maries, Clearwater, Selway,
and Lochsa Rivers.

Individuals who may need special
assistance due to a disability should
contact Frank Sherman at the Idaho
Department of Water Resources,
Statehouse, Boise 83720 at least five
days in advance so arrangements
can be made.

May 13, 20, 1993

MOSCOW, ID
APR 18 1993

AFFIDAVIT OF PUBLICATION

STATE OF IDAHO, }
County of Kootenai, } ss.

Keri Alexander

being first duly sworn
upon oath deposes and says:

1. I am now and at all times hereinafter mentioned was a citizen of the United States, resident of the State of Idaho, over the age of twenty-one years and not a party of the above entitled action.

2. I am now and at all times hereinafter mentioned was the printer (principal clerk) of the "Coeur d'Alene Press," a newspaper printed and published daily except Sunday in Coeur d'Alene, Kootenai County, Idaho, and having a general circulation in said county.

3. The

legal notice

of which the annexed is a printed copy, was published in the regular Thurs. issue of said newspaper for 2 consecutive weeks commencing on the 13th day of May, 1993, and ending on the 20th day of May, 1993, and such publication was made as often during said period as said daily newspaper was regularly issued.

4. That said newspaper has been continuously and uninterruptedly published in said Kootenai County, during a period of more than seventy-eight consecutive weeks immediately prior to the first publication of said notice.

Keri Alexander

Subscribed and sworn to before me this

20th

day of

May

1993

Roserta Manley

Notary Public for the State of Idaho,
residing at Coeur d'Alene, Idaho.

MICROFILMED

APR 10 1993

ROSERTA MANLEY
My commission expires

2-5-99

PUBLIC INFORMATION MEETING MINIMUM STREAMFLOWS

The Idaho Water Resource Board will hold public information meetings on May 24 in the Community Room at the Kootenai County Extension Office, 106 E. Dalton Ave., Coeur d'Alene; and on May 25 in the Gold Room at the Student Union Building, University of Idaho, Moscow. Both meetings will begin at 7:00 p.m.

These are part of a series of information meetings to be held in north Idaho addressing minimum streamflow applications filed by the Water Board on the Kootenai, Moyie, Priest, Pack, Pend Oreille, Clark Fork, Spokane, Coeur d'Alene, St. Joe, St. Maries, Clearwater, Selway, and Lochsa Rivers.

Individuals who may need special assistance due to a disability should contact Frank Sherman at the Idaho Department of Water Resources, Statehouse, Boise 83720 at least five days in advance so arrangements can be made.

Legal 329

May 13, 20, 1993

RECEIVED

MAY 26 1993

AFFIDAVIT OF PUBLICATION

STATE OF IDAHO, }
County of Kootenai, } ss.

Keri Alexander

being first duly sworn upon oath deposes and says:

1. I am now and at all times hereinafter mentioned was a citizen of the United States, resident of the State of Idaho, over the age of twenty-one years and not a party of the above entitled action.

2. I am now and at all times hereinafter mentioned was the printer (principal clerk) of the "Coeur d'Alene Press," a newspaper printed and published daily except Sunday in Coeur d'Alene, Kootenai County, Idaho, and having a general circulation in said county.

3. The *legal notice*

of which the annexed is a printed copy, was published in the regular *Thurs.* issue of said newspaper for *2* consecutive *weeks* commencing on the *6th* day of *May*, 19*93*, and ending on the *13th* day of *May*, 19*93*, and such publication was made as often during said period as said *daily* newspaper was regularly issued.

4. That said newspaper has been continuously and uninterruptedly published in said Kootenai County, during a period of more than seventy-eight consecutive weeks immediately prior to the first publication of said notice.

Keri Alexander

Subscribed and sworn to before me this *13th* day of *May*, 19*93*

Roberta Smalley
Notary Public for the State of Idaho,
residing at Coeur d'Alene, Idaho.

NOTARY PUBLIC *8-5-99*

NOTICE OF IDAHO WATER RESOURCE BOARD PUBLIC INFORMATION MEETING

The Idaho Water Resource Board will hold a public information meeting at 7:30 p.m. at the Edgewater Inn, 56 Bridge St., Sandpoint on May 20, 1993.

This will be the first in a series of public information meetings in the region addressing minimum streamflow applications filed by the Water Board on streams in northern Idaho. Of particular interest to residents of the Sandpoint area are minimum flow applications filed on the Pend Oreille, Pack, Clark Fork, Priest, Moyie, and Kootenai rivers.

Individuals who may need special assistance due to a disability should contact Frank Sherman at the Idaho Department of Water Resources, Statehouse, Boise 83720 at least five days in advance so arrangements can be made.

Legal 276
May 6, 13, 1993

RECEIVED

MAY 17 1993

UNRECORDED

APR 10 1993

AFFIDAVIT OF PUBLICATION

STATE OF IDAHO)
) ss.
County of Clearwater)

Bonnie M. Bessent

being first duly sworn, on oath, deposes and says:

That I am and at all times herein mentioned have been a citizen of the United States and of the State of Idaho, over 21 years of age, and that I am not a party to nor interested in the above entitled proceeding; that I am and at all times herein mentioned have been the Editor, Foreman, of THE CLEARWATER TRIBUNE; that said Clearwater Tribune is a newspaper of general circulation, printed and published weekly at Orofino, in the County of Clearwater and State of Idaho; that the Clearwater Tribune has been continuously and uninterruptedly published in Clearwater County, Idaho, during the period of seventy-eight consecutive weeks prior to the first publication of attached copy of:

Public Information Meeting

That said _____ Minimum Steamflow

of which the annexed is a full, true and correct printed copy, was published in the regular and entire issue of said newspaper, and not in any supplement thereof, for a full period of one consecutive issues commencing on the 8th day of July 1993 and ending on the 8th day of July 1993

Bonnie M. Bessent
STATE OF IDAHO)
)
COUNTY OF CLEARWATER)

On this 15th day of July in the year of 1993, before me, a Notary Public, personally appeared Bonnie M. Bessent known or identified to me to be the person whose name subscribed to the within instrument, and being by me duly sworn, declared that the statements therein are true, and acknowledged to me that he executed the same.

Janice A. Finke
Notary Public for Idaho
Resident at Orofino, Idaho
My commission expires: _____

PUBLIC INFORMATION MEETING

MINIMUM STREAMFLOWS

The Idaho Water Resource Board will hold public information meetings on July 13 in the library of the Kamiah High School, 711 9th Street, Kamiah; on July 14 in the first floor conference room of the State office building, 1118 F. Street, Lewiston; and on July 20 at the Benewah County Courthouse, St. Maries. All three meetings will begin at 7:00 p.m.

These are the final meetings of a series of information meetings being held in north Idaho addressing minimum streamflow applications filed by the Water Board on the Kootenai, Moyie, Priest, Pack, Pend Oreille, Clark Fork, Spokane, Coeur d'Alene, St. Joe, St. Maries, Clearwater, Selway, and Lochsa Rivers.

Individuals who may need special assistance due to a disability should contact John Beal at the Idaho Department of Water Resources, Statehouse, Boise 83720 at least five days in advance so arrangements can be made.

7-8, 93c

MICROFILMED
APR 10 1988

IDAHO DEPARTMENT OF WATER RESOURCES
NEWS RELEASE

Statehouse Mail, Boise, Idaho 83720

Release 93-52

MINIMUM STREAM FLOWS PROPOSED
FOR 13 NORTH IDAHO RIVERS

For Immediate Release
Boise, Idaho - May 6, 1993

For More Information:
Dick Larsen, 327-7933

The Idaho Water Resource Board wants to guarantee minimum stream flows in sections of 13 North Idaho rivers and they want to know what residents think about the idea.

The Board has set a series of special public information meetings in the last half of May to outline the proposals and hear from the public.

The Board has filed applications for minimum stream flows in sections of the Kootenai, Moyie, Priest, Pack, Pend Oreille, Clark Fork, Spokane, Coeur d'Alene, St. Joe, St. Maries, Clearwater, Selway, and Lochsa rivers.

The Board feels minimum stream flows are necessary to preserve fisheries, recreation, and aesthetic values on the 13 rivers. If the Board decides to continue the approval process, the Idaho Department of Water Resources will schedule public hearings on the proposals later this year. Minimum stream flows also must be approved by the state legislature before they can go into effect.

-more-more-

MICROFILMED
APR 10 1996

Minimum Stream Flows - Page 2

The first public information meeting is set for May 20 at 7:30 at the Edgewater Inn in Sandpoint. A second meeting will be held May 24 at 7 p.m. in the Kootenai County Extension Office, 106 E. Dalton Ave, in Coeur d'Alene. A third meeting will be held May 25 at 7 p.m. in the Student Union Building on the University of Idaho campus in Moscow.

Minimum stream flows are ones in which water is not diverted and used but must remain in the river channel. Minimum stream flows apply to unappropriated water, i.e., water not used by an established water right. Existing prior water rights or permits with an earlier priority date must be satisfied before minimum stream flows are honored.

Individuals who want to attend the meeting and who may need special assistance due to a disability should contact Frank Sherman, Idaho Department of Water Resources in Boise, at least five days in advance so arrangements can be made. Sherman's phone number is 327-7985.

-30-30-30-

ENCLOSURE
APR 10 1988

Water Right Number - 96-08730

Prefix Translation: WATER RIGHT

Old (D) Number -

+ - - - - Last Name - - - - + + - First Name - - + + - - - - - Address - - - - - +

*** C - CURRENT OWNER ***
IDAHO WATER RESOURCE BOARD

1 - STATEHOUSE

2 -

3 -

City- BOISE

State- ID Zip- 83720

Phone - 208-327-7910

+ - - Priority Date - - + + - - - Region - - - + + - - - Stage - - - + + - - - Status - - - +
06/15/1992 18 NORTHERN A - APPLICATION+ - - - - Source - - - - - + + - - - - Tributary - - - - - +
PEND OREILLE RIVER COLUMBIA RIVER+ - - - - - - - - - - - - - - - Point of Diversion - - - - - +
Twn Rng Sec Tract Lot RFlg County Stream Index (Blank if no Index Code)

56N	05W	29	NW NW		(17)	BONNER
	06W	13	NW SW		(17)	BONNER
			SW SW		(17)	BONNER
		24	NW NW		(17)	BONNER
			SW NW		(17)	BONNER
			NW SW		(17)	BONNER

Code	Description	Period From	Period To	Diversion Rate	Diversion Volume
34 - MINIMUM INSTREAM FLOW		01/01	12/31	10655.000	

+ - Total Div. Rate - + + - Total Div. Volume - + + - Total Div. Capacity - +
10655.000+ - - - - - - - - - - - - - - - Place of Use - - - - - +
Twn Rng Sec Tract Lot Acres Code Description County

+ - - Diversion Means -

+ - - Non-Irrigation Use -

+ - - Other Rights for Same Use -

+ - - - - - - - - - - - - - - - Remarks - - - - - +

The affected reach is approximately 2.4 miles long.
Minimum stream flow use is for the protection of fish and
wildlife habitat, aquatic life, and recreational values.
Point of diversion is from Albeni Falls Dam in NWNW, S29, T56N,
R05W, downstream to the State line on the west side of S13 and
S24, T56N, R06W.

Water right number - 96-08730

Prefix Translation: WATER RIGHT

+ - - - - Old Water Right Numbers - - - - - +

+ - - - - Old Water Right Numbers - - - - - +
No Old Water Right Numbers found.

+ - - - - Conditions of Approval - - - - - +
No Conditions of Approval found.

+ - - - - Decree Plaintiff - - - + + - - - - Decree Defendant - - - + + - Decree Date - +
00/00/0000

+ - - - - Comments - - - - - +
No Comments Found

+ - - Audit Fields - 12/04/92 STYPA

+ - - - - Water Rights Dates and Flags Area - - - - - +

| | | |
|--------------------------------|------------------------------|---------------------|
| Proof Due Date - 00/00/0000 | Field Exam Made - 00/00/0000 | Field Exam Fee - |
| Approved/Denied - 00/00/0000 | Protested Date - 00/00/0000 | Swan Falls - |
| Proof Made Date - 00/00/0000 | Hearing Date - 00/00/0000 | Temporary Right - P |
| Exam to S.O. Date - 00/00/0000 | Verified Date - 00/00/0000 | DLE/Carey Act - |
| Order Show Cause - 00/00/0000 | Receipt Number - | Water District - |
| Licensed Date - 00/00/0000 | Appl Received - 06/15/1992 | Transfer/Amended - |
| Decree Date - 00/00/0000 | Presumption Flag - | |