

'94 WD File



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

R. KEITH HIGGINSON
DIRECTOR

February 21, 1995

Arlin Olson
Watermaster, Water District 29
Box 644
Lava Hot Springs, ID 83246

Re: 1994 Portneuf River Summary Correction

Dear Arlin:

I discovered that the 1994 river summary which I sent you under the cover letter dated February 7, 1995 contained an error. Specifically, the calculated field for 'Natural Flow at Topaz', column no. 11 on the report, was incorrect for most dates.

I apologize for the error.

Sincerely,

A handwritten signature in cursive script that reads 'Tim Luke'.

Tim Luke
Water Allocations

cc: Eastern Region
Howard Hall, McCammon Ditch Co.
Ervin Gilbert, Portneuf-Marsh Valley Canal Co.
Roger Johnson, Portneuf Irrigating Co.
Shane Irick, Lava Irrigation
Gene Fagant, Dempsey-Topaz
Rondo Perkins
KV Hansen

1994 WATER DISTRICT FILE

STATE WATER DISTRICT NO. 29
PORTNEUF RIVER AND TRIBUTARIES

HYDROLOGIC SUMMARY

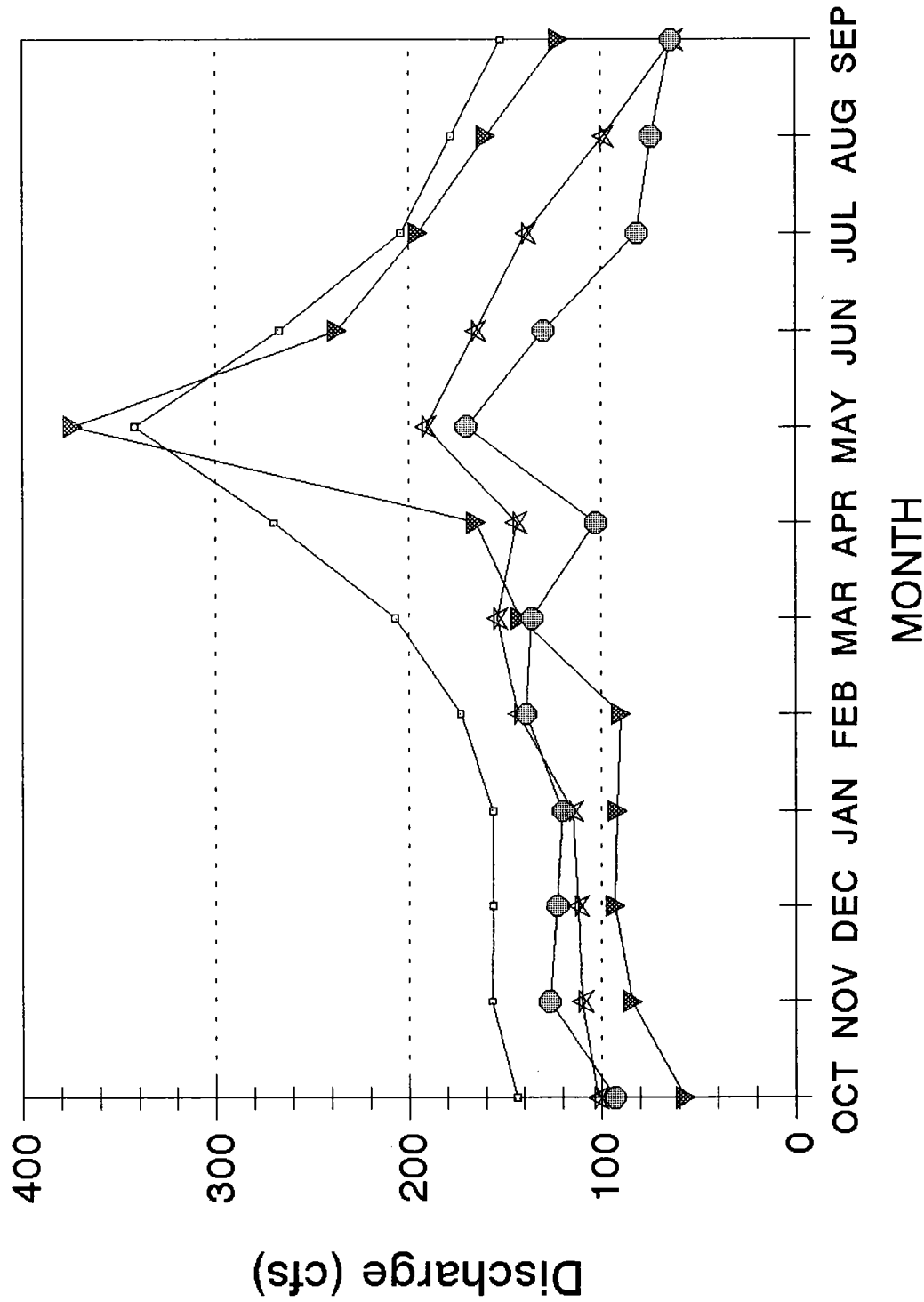
The 1994 water year was the fourth lowest runoff year on record (period of record 1920-1994). Actual total runoff for the water year ending October 1, 1994 was 92,700 acre-feet, which is about 64 percent of normal. The 1994 actual runoff was about 10,000 acre-feet greater than actual total runoff in 1992, which was the lowest runoff year on record. Attachments A and B are hydrographs for Portneuf River at Topaz which show annual total runoff between 1920 and 1994, and comparison of historical mean annual monthly runoff versus mean monthly flows for the past three years.

Natural flow rights on the Portneuf River were cut very early in the season. The 1898 priority right for the Dempsey-Topaz Ditch was completely cut off on June 1. The July 1, 1889 priority right for the Lava Irrigation Ditch was completely cut off on June 12. The June 11, 1889 priority McCammon Ditch right was cut to 0 cfs on July 11, and reinstated beginning on August 3. Significant cuts on this McCammon Ditch right began as early as mid-June. Rights with priorities earlier than June 11, 1889 were either filled or capable of being satisfied during the irrigation season.

Storage fill at, and delivery from the Chesterfield Reservoir was poor. Deliveries from the reservoir to the Portneuf-Marsh Valley Canal began on May 5 and ended on August 15, a total of about 100 days.

A summary of 1994 river diversions and flows for the 1994 irrigation season is attached.

Portneuf River at Topaz, ID Mean Monthly Flows Historical (1913-92) vs. 1992, 1993 & 1994



Water District 29 - Portneuf River
1994 Summary of Diversions & Distribution on Main Stem of River
(Excludes tributary diversions)
(All flows reported in cfs)

Page No. 1

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
	Reservr	Resrvr	Storage	Perkins	Hansen	Dempsey	Chrstnsn	Lava	Sum of Irr.	Topaz	Nat. Flow	Downey	Arimo	McCamon	Cutler	Sum of Divs.	Topaz Gage
DATE	Inflow	Outflow	(2-1)	Ditch	Div.	-Topaz	Ditch	Irr.	Diversions	Gage	at Topaz	Ditch	Ditch	Ditch	Ditch	Below Topaz	Less Divs.
									(4+5+6+7+8)		(10+9-3)					(12+13+14+15)	Below Topaz
04/21/1994	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.5	150.0	150.5	0.0	0.0	16.0	0.0	16.0	134.0
04/22/1994	0.0	0.0	0.0	0.0	0.0	0.0	0.5	5.0	5.5	158.0	163.5	0.0	0.0	48.0	0.0	48.0	110.0
04/23/1994	0.0	0.0	0.0	0.0	0.0	0.0	0.5	5.0	5.5	165.0	170.5	0.0	0.0	48.0	0.0	48.0	117.0
04/24/1994	0.0	0.0	0.0	0.0	0.0	0.0	0.5	5.0	5.5	165.0	170.5	0.0	0.0	53.0	0.0	53.0	112.0
04/25/1994	0.0	0.0	0.0	0.0	0.0	0.0	2.0	5.0	7.0	164.0	171.0	0.0	0.0	52.0	0.0	52.0	112.0
04/26/1994	0.0	0.0	0.0	0.0	0.0	0.0	2.0	5.0	7.0	160.0	167.0	0.0	0.0	54.0	0.0	54.0	106.0
04/27/1994	0.0	0.0	0.0	0.0	0.0	0.0	2.0	5.0	7.0	154.0	161.0	0.0	0.0	54.0	0.0	54.0	100.0
04/28/1994	0.0	0.0	0.0	0.0	0.0	0.0	2.0	5.0	7.0	150.0	157.0	0.0	0.0	54.0	0.0	54.0	96.0
04/29/1994	0.0	0.0	0.0	0.0	0.0	0.0	2.0	5.0	7.0	144.0	151.0	0.0	0.0	59.0	0.0	59.0	85.0
04/30/1994	0.0	0.0	0.0	0.0	0.0	0.0	2.0	5.0	7.0	133.0	140.0	0.0	15.0	64.0	0.0	79.0	54.0
05/01/1994	0.0	0.0	0.0	0.0	0.0	14.0	1.5	18.0	33.5	130.0	163.5	25.0	18.0	61.0	0.0	104.0	26.0
05/02/1994	10.0	0.0	-10.0	0.0	0.0	16.0	1.5	18.0	35.5	128.0	173.5	45.0	18.0	60.0	0.0	123.0	5.0
05/03/1994	10.0	0.0	-10.0	0.0	0.0	16.0	1.5	18.0	35.5	126.0	171.5	50.0	22.0	62.0	0.0	134.0	-8.0
05/04/1994	10.0	0.0	-10.0	0.0	0.0	15.0	1.5	17.0	33.5	122.0	165.5	45.0	25.0	59.0	0.0	129.0	-7.0
05/05/1994	10.0	55.0	45.0	0.0	0.0	15.0	1.5	19.0	35.5	129.0	119.5	40.0	30.0	63.0	0.0	133.0	-4.0
05/06/1994	10.0	55.0	45.0	0.0	0.0	16.0	1.5	19.0	36.5	155.0	146.5	37.0	35.0	66.0	0.0	138.0	17.0
05/07/1994	10.0	55.0	45.0	0.0	0.0	16.0	1.5	19.0	36.5	180.0	171.5	40.0	35.0	73.0	0.0	148.0	32.0
05/08/1994	10.0	91.0	81.0	0.0	0.0	16.0	1.5	19.0	36.5	201.0	156.5	71.0	57.0	72.0	0.0	200.0	1.0
05/09/1994	10.0	91.0	81.0	0.0	5.0	17.0	1.5	20.0	43.5	209.0	171.5	90.0	54.0	71.0	0.0	215.0	-6.0
05/10/1994	10.0	91.0	81.0	0.0	5.0	17.0	1.5	20.0	43.5	212.0	174.5	91.0	55.0	70.0	0.0	216.0	-4.0
05/11/1994	10.0	91.0	81.0	0.0	6.0	17.0	1.5	20.0	44.5	216.0	179.5	89.0	55.0	70.0	0.0	214.0	2.0
05/12/1994	10.0	123.0	113.0	0.0	6.0	17.0	1.5	20.0	44.5	232.0	163.5	105.0	55.0	72.0	0.0	232.0	0.0
05/13/1994	10.0	123.0	113.0	0.0	6.0	18.0	1.5	20.0	45.5	237.0	169.5	120.0	57.0	74.0	0.0	251.0	-14.0
05/14/1994	10.0	123.0	113.0	0.0	6.0	18.0	1.5	20.0	45.5	237.0	169.5	113.0	58.0	74.0	0.0	245.0	-8.0
05/15/1994	10.0	123.0	113.0	0.0	6.0	18.0	1.5	20.0	45.5	231.0	163.5	111.0	57.0	73.0	0.0	241.0	-10.0
05/16/1994	10.0	123.0	113.0	0.0	6.0	18.0	1.5	20.0	45.5	235.0	167.5	112.0	56.0	72.0	0.0	240.0	-5.0
05/17/1994	10.0	115.0	105.0	0.0	6.0	18.0	1.5	20.0	45.5	228.0	168.5	112.0	57.0	72.0	0.0	241.0	-13.0
05/18/1994	10.0	116.0	106.0	0.0	6.0	18.0	1.5	20.0	45.5	220.0	159.5	111.0	55.0	69.0	0.0	235.0	-15.0
05/19/1994	10.0	101.0	91.0	0.0	6.0	22.0	1.5	20.0	49.5	204.0	162.5	90.0	54.0	65.0	0.0	209.0	-5.0
05/20/1994	10.0	101.0	91.0	0.0	6.0	22.0	1.5	20.0	49.5	194.0	152.5	80.0	51.0	69.0	0.0	200.0	-6.0
05/21/1994	10.0	100.0	90.0	0.0	6.0	22.0	1.5	20.0	49.5	192.0	151.5	84.0	47.0	69.0	0.0	200.0	-8.0
05/22/1994	5.5	100.0	94.5	0.0	6.0	22.0	0.0	20.0	48.0	189.0	142.5	87.0	43.0	67.0	0.0	197.0	-8.0

Water District 29 - Portneuf River
1994 Summary of Diversions & Distribution on Main Stem of River
(Excludes tributary diversions)
(All flows reported in cfs)

Page No. 2

DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
	Reservr Inflow	Reservr Outflow	Storage (2-1)	Perkins Ditch	Hansen Div.	Dempsey -Topaz Ditch	Chrstnsn Ditch	Lava Irr. Ditch	Sum of Irr. Diversions Above Topaz (4+5+6+7+8)	Topaz Gage at Topaz (10-9-3)	Nat. Flow at Topaz (10-9-3)	Downey Ditch	Arino Ditch	McCamon Ditch	Cutler Ditch	Sum of Divs. Below Topaz (12+13+14+15)	Topaz Gage Less Divs. Below Topaz (10-16)
05/23/1994	6.0	100.0	94.0	0.0	6.0	22.0	0.0	9.0	37.0	190.0	133.0	84.0	44.0	67.0	0.0	195.0	-5.0
05/24/1994	6.0	100.0	94.0	0.0	6.0	22.0	0.0	9.0	37.0	187.0	130.0	79.0	47.0	66.0	0.0	192.0	-5.0
05/25/1994	6.0	99.0	93.0	0.0	5.0	22.0	0.0	3.0	30.0	188.0	125.0	78.0	50.0	67.0	0.0	195.0	-7.0
05/26/1994	6.0	115.0	109.0	0.0	4.0	26.0	0.0	3.0	33.0	184.0	108.0	77.0	48.0	64.0	0.0	189.0	-5.0
05/27/1994	6.0	115.0	109.0	1.0	4.0	26.0	0.0	3.0	34.0	185.0	110.0	83.0	51.0	62.0	0.0	196.0	-11.0
05/28/1994	6.0	115.0	109.0	1.0	0.0	17.0	0.0	1.0	19.0	199.0	109.0	105.0	52.0	49.0	0.0	206.0	-7.0
05/29/1994	6.0	115.0	109.0	1.0	0.0	17.0	0.0	1.0	19.0	197.0	107.0	104.0	56.0	52.0	0.0	212.0	-15.0
05/30/1994	6.0	92.0	86.0	1.0	0.0	17.0	0.0	3.0	21.0	189.0	124.0	100.0	54.0	52.0	0.0	206.0	-17.0
05/31/1994	6.0	92.0	86.0	3.0	4.0	17.0	0.0	3.0	27.0	180.0	121.0	89.0	55.0	48.0	0.0	192.0	-12.0
06/01/1994	7.0	93.0	86.0	3.0	5.0	0.0	0.0	3.0	11.0	181.0	106.0	85.0	55.0	52.0	0.0	192.0	-11.0
06/02/1994	7.0	92.0	85.0	3.0	5.0	0.0	0.0	3.0	11.0	181.0	107.0	90.0	54.0	52.0	0.0	196.0	-15.0
06/03/1994	7.0	81.0	74.0	3.0	5.0	0.0	0.0	3.0	11.0	167.0	104.0	78.0	53.0	49.0	0.0	180.0	-13.0
06/04/1994	6.0	81.0	75.0	3.0	5.0	0.0	0.0	3.0	11.0	159.0	95.0	75.0	52.0	49.0	0.0	176.0	-17.0
06/05/1994	6.0	81.0	75.0	3.0	5.0	0.0	0.0	3.0	11.0	153.0	89.0	72.0	52.0	47.0	0.0	171.0	-18.0
06/06/1994	4.2	81.0	76.8	3.0	5.0	0.0	0.0	3.0	11.0	152.0	86.2	70.0	50.0	48.0	0.0	168.0	-16.0
06/07/1994	4.0	81.0	77.0	3.0	5.0	0.0	0.0	3.0	11.0	153.0	87.0	70.0	50.0	49.0	0.0	169.0	-16.0
06/08/1994	4.0	81.0	77.0	3.0	5.0	0.0	0.0	3.0	11.0	157.0	91.0	72.0	53.0	49.0	0.0	174.0	-17.0
06/09/1994	4.0	81.0	77.0	3.0	5.0	0.0	0.0	3.0	11.0	156.0	90.0	70.0	52.0	49.0	0.0	171.0	-15.0
06/10/1994	4.0	97.0	93.0	3.0	5.0	0.0	0.0	3.0	11.0	163.0	81.0	70.0	53.0	47.0	0.0	170.0	-7.0
06/11/1994	4.0	96.0	92.0	3.0	4.0	0.0	0.0	3.0	10.0	165.0	83.0	80.0	51.0	48.0	0.0	179.0	-14.0
06/12/1994	4.0	96.0	92.0	3.0	4.0	0.0	0.0	2.0	9.0	168.0	85.0	83.0	51.0	47.0	0.0	181.0	-13.0
06/13/1994	4.0	96.0	92.0	3.0	4.0	0.0	0.0	0.0	7.0	170.0	85.0	82.0	52.0	47.0	0.0	181.0	-11.0
06/14/1994	4.0	96.0	92.0	3.0	4.0	0.0	0.0	0.0	7.0	169.0	84.0	81.0	50.0	47.0	0.0	178.0	-9.0
06/15/1994	4.0	96.0	92.0	3.0	4.0	0.0	0.0	0.0	7.0	170.0	85.0	77.0	53.0	47.0	0.0	177.0	-7.0
06/16/1994	2.7	96.0	93.3	4.0	4.0	0.0	0.0	0.0	8.0	170.0	84.7	88.0	54.0	34.0	0.0	176.0	-6.0
06/17/1994	3.0	96.0	93.0	4.0	4.0	0.0	0.0	0.0	8.0	170.0	85.0	85.0	52.0	33.0	0.0	170.0	0.0
06/18/1994	3.0	96.0	93.0	4.0	4.0	0.0	0.0	0.0	8.0	162.0	77.0	87.0	51.0	32.0	0.0	170.0	-8.0
06/19/1994	3.0	96.0	93.0	2.0	3.0	0.0	0.0	0.0	5.0	161.0	73.0	87.0	54.0	25.0	0.0	166.0	-5.0
06/20/1994	3.0	96.0	93.0	3.0	2.0	0.0	0.0	0.0	5.0	159.0	71.0	90.0	54.0	24.0	0.0	168.0	-9.0
06/21/1994	3.0	96.0	93.0	3.0	2.0	0.0	0.0	0.0	5.0	158.0	70.0	87.0	54.0	22.0	0.0	163.0	-5.0
06/22/1994	3.0	107.0	104.0	3.0	3.0	0.0	0.0	0.0	6.0	160.0	62.0	86.0	55.0	21.0	0.0	162.0	-2.0
06/23/1994	3.0	107.0	104.0	3.0	3.0	0.0	0.0	0.0	6.0	171.0	73.0	100.0	55.0	18.0	0.0	173.0	-2.0
06/24/1994	3.0	107.0	104.0	3.0	3.0	0.0	0.0	0.0	6.0	169.0	71.0	102.0	55.0	18.0	0.0	175.0	-6.0

Water District 29 - Portneuf River
1994 Summary of Diversions & Distribution on Main Stem of River
(Excludes tributary diversions)
(All flows reported in cfs)

Page No. 3

DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
	Reservr Inflow	Reservr Outflow	Storage (2-1)	Perkins Ditch	Hansen Div.	Dempsey -Topaz Ditch	Chrstnsn Ditch	Lava Irr. Ditch	Sum of Irr. Diversions Above Topaz (4+5+6+7+8)	Topaz Gage at Topaz (10+9-3)	Nat. Flow at Topaz (10+9-3)	Downey Ditch	Arimo Ditch	McCamon Ditch	Cutler Ditch	Sum of Divs. Below Topaz (12+13+14+15)	Topaz Gage Less Divs. Below Topaz (10-16)
06/25/1994	3.0	107.0	104.0	2.0	3.0	0.0	0.0	0.0	5.0	167.0	68.0	100.0	52.0	16.0	0.0	168.0	-1.0
06/26/1994	3.0	107.0	104.0	3.0	3.0	0.0	0.0	0.0	6.0	165.0	67.0	97.0	53.0	16.0	0.0	166.0	-1.0
06/27/1994	3.0	107.0	104.0	2.0	3.0	0.0	0.0	0.0	5.0	165.0	66.0	100.0	52.0	12.0	0.0	164.0	1.0
06/28/1994	3.0	117.0	114.0	2.0	3.0	0.0	0.0	0.0	5.0	171.0	62.0	100.0	54.0	9.0	0.0	163.0	8.0
06/29/1994	3.0	117.0	114.0	2.0	3.0	0.0	0.0	0.0	5.0	173.0	64.0	109.0	54.0	9.0	0.0	172.0	1.0
06/30/1994	3.0	117.0	114.0	2.0	3.0	0.0	0.0	0.0	5.0	170.0	61.0	108.0	52.0	10.0	0.0	170.0	0.0
07/01/1994	3.0	117.0	114.0	2.0	3.0	0.0	0.0	0.0	5.0	169.0	60.0	112.0	53.0	7.0	0.0	172.0	-3.0
07/02/1994	3.0	117.0	114.0	2.0	3.0	0.0	0.0	0.0	5.0	168.0	59.0	112.0	54.0	6.0	0.0	172.0	-4.0
07/03/1994	3.0	117.0	114.0	2.0	3.0	0.0	0.0	0.0	5.0	166.0	57.0	110.0	53.0	2.0	0.0	165.0	1.0
07/04/1994	3.0	117.0	114.0	2.0	3.0	0.0	0.0	0.0	5.0	165.0	56.0	108.0	52.0	2.0	0.0	162.0	3.0
07/05/1994	3.0	117.0	114.0	2.0	3.0	0.0	0.0	0.0	5.0	164.0	55.0	109.0	54.0	2.0	0.0	165.0	-1.0
07/06/1994	3.0	117.0	114.0	3.0	4.0	0.0	0.0	0.0	7.0	170.0	63.0	112.0	55.0	2.0	0.0	169.0	1.0
07/07/1994	3.0	117.0	114.0	3.0	3.0	0.0	0.0	0.0	6.0	169.0	61.0	116.0	54.0	2.0	0.0	172.0	-3.0
07/08/1994	3.0	102.0	99.0	3.0	3.0	0.0	0.0	0.0	6.0	166.0	73.0	112.0	53.0	2.0	0.0	167.0	-1.0
07/09/1994	3.0	101.0	98.0	3.0	3.0	0.0	0.0	0.0	6.0	158.0	66.0	110.0	52.0	2.0	0.0	164.0	-6.0
07/10/1994	3.0	100.0	97.0	3.0	3.0	0.0	0.0	0.0	6.0	151.0	60.0	100.0	50.0	2.0	0.0	152.0	-1.0
07/11/1994	3.0	100.0	97.0	3.0	3.0	0.0	0.0	0.0	6.0	149.0	58.0	98.0	49.0	0.0	1.0	148.0	1.0
07/12/1994	3.0	100.0	97.0	3.0	3.0	0.0	0.0	0.0	6.0	144.0	53.0	95.0	49.0	0.0	1.0	145.0	-1.0
07/13/1994	3.0	100.0	97.0	3.0	3.0	0.0	0.0	0.0	6.0	141.0	50.0	92.0	46.0	0.0	0.0	138.0	3.0
07/14/1994	3.0	80.0	77.0	2.0	3.0	0.0	0.0	0.0	5.0	137.0	65.0	94.0	44.0	0.0	0.0	138.0	-1.0
07/15/1994	3.0	80.0	77.0	2.0	3.0	0.0	0.0	0.0	5.0	128.0	56.0	86.0	40.0	0.0	0.0	126.0	2.0
07/16/1994	3.0	79.0	76.0	2.0	2.0	0.0	0.0	0.0	4.0	124.0	52.0	75.0	47.0	0.0	0.0	122.0	2.0
07/17/1994	3.0	79.0	76.0	2.0	2.0	0.0	0.0	0.0	4.0	123.0	51.0	75.0	47.0	0.0	0.0	122.0	1.0
07/18/1994	3.0	79.0	76.0	2.0	2.0	0.0	0.0	0.0	4.0	125.0	53.0	78.0	47.0	0.0	0.0	125.0	0.0
07/19/1994	3.0	79.0	76.0	2.0	2.0	0.0	0.0	0.0	4.0	122.0	50.0	77.0	47.0	0.0	2.0	126.0	-4.0
07/20/1994	3.0	79.0	76.0	2.0	2.0	0.0	0.0	0.0	4.0	125.0	53.0	75.0	48.0	0.0	3.0	126.0	-1.0
07/21/1994	3.0	79.0	76.0	2.0	2.0	0.0	0.0	0.0	4.0	125.0	53.0	76.0	49.0	0.0	3.0	128.0	-3.0
07/22/1994	3.0	75.0	72.0	2.0	3.0	0.0	0.0	0.0	5.0	121.0	54.0	75.0	47.0	0.0	2.0	124.0	-3.0
07/23/1994	3.0	75.0	72.0	2.0	3.0	0.0	0.0	0.0	5.0	121.0	54.0	75.0	47.0	0.0	2.0	124.0	-3.0
07/24/1994	3.0	70.0	67.0	2.0	3.0	0.0	0.0	0.0	5.0	125.0	63.0	76.0	48.0	0.0	3.0	127.0	-2.0
07/25/1994	3.0	70.0	67.0	2.0	3.0	0.0	0.0	0.0	5.0	125.0	63.0	76.0	50.0	0.0	3.0	129.0	-4.0
07/26/1994	3.0	70.0	67.0	3.0	3.0	0.0	0.0	0.0	6.0	122.0	61.0	69.0	53.0	0.0	3.0	125.0	-3.0
07/27/1994	3.0	70.0	67.0	3.0	3.0	0.0	0.0	0.0	6.0	118.0	57.0	68.0	53.0	0.0	3.0	124.0	-6.0

Water District 29 - Portneuf River
1994 Summary of Diversions & Distribution on Main Stem of River
(Excludes tributary diversions)
(All flows reported in cfs)

Page No. 4

DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
	Resrvr Inflow	Resrvr Outflow	Storage (2-1)	Perkins Ditch	Hansen Div.	Dempsey -Topaz Ditch	Chrstrnsn Ditch	Lava Irr. Ditch	Sum of Irr. Diversions Above Topaz (4+5+6+7+8)	Topaz Gage at Topaz (10+9-3)	Nat. Flow at Topaz (10+9-3)	Downey Ditch	Arino Ditch	McCamon Ditch	Cutler Ditch	Sum of Divs. Below Topaz (12+13+14+15)	Topaz Gage Less Divs. Below Topaz (10-16)
07/28/1994	3.0	70.0	67.0	3.0	3.0	0.0	0.0	0.0	6.0	117.0	56.0	67.0	52.0	0.0	3.0	122.0	-5.0
07/29/1994	3.0	70.0	67.0	3.0	3.0	0.0	0.0	0.0	6.0	118.0	57.0	67.0	52.0	0.0	3.0	122.0	-4.0
07/30/1994	3.0	79.0	76.0	3.0	3.0	0.0	0.0	0.0	6.0	118.0	48.0	66.0	51.0	0.0	3.0	120.0	-2.0
07/31/1994	3.0	79.0	76.0	3.0	3.0	0.0	0.0	0.0	6.0	131.0	61.0	73.0	53.0	0.0	3.0	129.0	2.0
08/01/1994	3.0	80.0	77.0	3.0	3.0	0.0	1.0	0.0	7.0	136.0	66.0	82.0	54.0	0.0	2.0	138.0	-2.0
08/02/1994	3.0	77.0	74.0	3.0	3.0	0.0	1.0	0.0	7.0	132.0	65.0	81.0	54.0	0.0	2.0	137.0	-5.0
08/03/1994	3.0	78.0	75.0	3.0	3.0	0.0	1.0	0.0	7.0	131.0	63.0	78.0	53.0	3.0	2.0	136.0	-5.0
08/04/1994	3.0	76.0	73.0	3.0	3.0	0.0	1.0	0.0	7.0	130.0	64.0	75.0	55.0	3.0	2.0	135.0	-5.0
08/05/1994	3.0	71.0	68.0	3.0	3.0	0.0	1.0	0.0	7.0	129.0	68.0	71.0	55.0	3.0	2.0	131.0	-2.0
08/06/1994	3.0	75.0	72.0	3.0	3.0	0.0	1.0	0.0	7.0	122.0	57.0	72.0	52.0	4.0	2.0	130.0	-8.0
08/07/1994	3.0	74.0	71.0	3.0	3.0	0.0	1.0	0.0	7.0	124.0	60.0	68.0	54.0	4.0	2.0	128.0	-4.0
08/08/1994	3.0	74.0	71.0	2.0	3.0	0.0	1.0	0.0	6.0	125.0	60.0	72.0	53.0	3.0	2.0	130.0	-5.0
08/09/1994	3.0	63.0	60.0	2.0	2.0	0.0	1.0	0.0	5.0	130.0	75.0	72.0	55.0	3.0	2.0	132.0	-2.0
08/10/1994	3.0	51.0	48.0	2.0	3.0	0.0	1.0	0.0	6.0	122.0	80.0	67.0	53.0	4.0	2.0	126.0	-4.0
08/11/1994	3.0	51.0	48.0	2.0	0.0	0.0	1.0	0.0	3.0	122.0	77.0	64.0	55.0	5.0	2.0	126.0	-4.0
08/12/1994	3.0	50.0	47.0	2.0	0.0	0.0	1.0	0.0	3.0	113.0	69.0	50.0	51.0	16.0	2.0	119.0	-6.0
08/13/1994	3.0	22.0	19.0	2.0	0.0	0.0	1.0	0.0	3.0	104.0	88.0	45.0	50.0	12.0	2.0	109.0	-5.0
08/14/1994	3.0	15.0	12.0	2.0	0.0	0.0	1.0	0.0	3.0	97.0	88.0	40.0	47.0	13.0	1.0	101.0	-4.0
08/15/1994	2.4	15.0	12.6	2.0	0.0	0.0	1.0	0.0	3.0	89.0	79.4	20.0	45.0	23.0	3.0	91.0	-2.0
08/16/1994	3.0	3.0	0.0	2.0	0.0	0.0	1.0	0.0	3.0	86.0	89.0	8.0	50.0	25.0	4.0	87.0	-1.0
08/17/1994	3.0	3.0	0.0	2.0	0.0	0.0	1.0	0.0	3.0	84.0	87.0	16.0	55.0	13.0	1.0	85.0	-1.0
08/18/1994	3.0	3.0	0.0	2.0	0.0	0.0	1.0	0.0	3.0	83.0	86.0	10.0	54.0	20.0	1.0	85.0	-2.0
08/19/1994	2.5	3.0	0.5	2.0	0.0	0.0	1.0	0.0	3.0	81.0	83.5	7.0	48.0	27.0	3.0	85.0	-4.0
08/20/1994	3.0	3.0	0.0	2.0	0.0	0.0	1.0	0.0	3.0	80.0	83.0	0.0	55.0	23.0	2.0	80.0	0.0
08/21/1994	3.0	3.0	0.0	2.0	0.0	0.0	1.0	0.0	3.0	80.0	83.0	0.0	55.0	23.0	2.0	80.0	0.0
08/22/1994	3.3	3.0	-0.3	2.0	0.0	0.0	1.0	0.0	3.0	80.0	83.3	0.0	56.0	25.0	2.0	83.0	-3.0
08/23/1994	3.0	3.0	0.0	2.0	0.0	0.0	1.0	0.0	3.0	80.0	83.0	0.0	56.0	28.0	2.0	86.0	-6.0
08/24/1994	3.0	3.0	0.0	2.0	0.0	0.0	1.0	0.0	3.0	78.0	81.0	0.0	54.0	27.0	2.0	83.0	-5.0
08/25/1994	3.0	3.0	0.0	2.0	0.0	0.0	1.0	0.0	3.0	75.0	78.0	0.0	52.0	26.0	2.0	80.0	-5.0
08/26/1994	3.0	3.0	0.0	2.0	2.0	0.0	1.0	0.0	5.0	76.0	81.0	0.0	57.0	19.0	1.0	77.0	-1.0
08/27/1994	3.0	3.0	0.0	2.0	2.0	0.0	1.0	0.0	5.0	76.0	81.0	0.0	56.0	21.0	1.0	78.0	-2.0
08/28/1994	3.0	3.0	0.0	3.0	2.0	0.0	1.0	0.0	6.0	81.0	87.0	0.0	55.0	22.0	2.0	79.0	2.0
08/29/1994	3.0	3.0	0.0	3.0	2.0	0.0	1.0	0.0	6.0	76.0	82.0	0.0	55.0	24.0	2.0	81.0	-5.0

Water District 29 - Portneuf River
1994 Summary of Diversions & Distribution on Main Stem of River
(Excludes tributary diversions)
(All flows reported in cfs)

Page No. 5

DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
	Reservr Inflow	Reservr Outflo	Storage (2-1)	Perkins Ditch	Hansen Div.	Dempsey -Topaz Ditch	Chrstnsn Ditch	Lava Irr. Ditch	Sum of Irr. Diversions Above Topaz (4+5+6+7+8)	Topaz Gage at Topaz (10+9-3)	Nat. Flow at Topaz (10+9-3)	Downey Ditch	Arino Ditch	McCamon Ditch	Cutler Ditch	Sum of Divs. Below Topaz (12+13+14+15)	Topaz Gage Less Divs. Below Topaz (10-16)
08/30/1994	3.0	3.0	0.0	3.0	2.0	0.0	1.0	0.0	6.0	77.0	83.0	0.0	53.0	24.0	2.0	79.0	-2.0
08/31/1994	3.0	3.0	0.0	3.0	2.0	0.0	1.0	0.0	6.0	77.0	83.0	0.0	55.0	23.0	2.0	80.0	-3.0
09/01/1994	3.0	3.0	0.0	3.0	2.0	0.0	1.0	0.0	6.0	77.0	83.0	0.0	55.0	23.0	2.0	80.0	-3.0
09/02/1994	3.0	3.0	0.0	3.0	2.0	0.0	1.0	0.0	6.0	77.0	83.0	0.0	55.0	23.0	2.0	80.0	-3.0
09/03/1994	3.0	3.0	0.0	3.0	2.0	0.0	1.0	0.0	6.0	77.0	83.0	0.0	54.0	22.0	2.0	78.0	-1.0
09/04/1994	3.0	3.0	0.0	3.0	2.0	0.0	1.0	0.0	6.0	75.0	81.0	0.0	53.0	21.0	2.0	76.0	-1.0
09/05/1994	3.0	3.0	0.0	3.0	2.0	0.0	1.0	0.0	6.0	76.0	82.0	0.0	54.0	20.0	2.0	76.0	0.0
09/06/1994	3.0	3.0	0.0	3.0	2.0	0.0	1.0	0.0	6.0	77.0	83.0	0.0	54.0	24.0	2.0	80.0	-3.0
09/07/1994	3.0	3.0	0.0	3.0	2.0	0.0	1.0	0.0	6.0	77.0	83.0	0.0	54.0	25.0	2.0	81.0	-4.0
09/08/1994	3.0	3.0	0.0	3.0	2.0	0.0	1.0	0.0	6.0	79.0	85.0	0.0	55.0	26.0	2.0	83.0	-4.0
09/09/1994	3.0	3.0	0.0	3.0	2.0	0.0	1.0	0.0	6.0	72.0	78.0	0.0	52.0	24.0	2.0	78.0	-6.0
09/10/1994	3.0	3.0	0.0	3.0	2.0	0.0	1.0	0.0	6.0	75.0	81.0	0.0	54.0	24.0	2.0	80.0	-5.0
09/11/1994	3.0	3.0	0.0	3.0	2.0	0.0	0.0	0.0	5.0	78.0	83.0	0.0	55.0	26.0	2.0	83.0	-5.0
09/12/1994	3.0	3.0	0.0	3.0	2.0	0.0	0.0	0.0	5.0	76.0	81.0	0.0	54.0	27.0	2.0	83.0	-7.0
09/13/1994	3.0	3.0	0.0	3.0	2.0	0.0	0.0	0.0	5.0	76.0	81.0	0.0	54.0	27.0	2.0	83.0	-7.0
09/14/1994	3.0	3.0	0.0	3.0	2.0	0.0	0.0	0.0	5.0	75.0	80.0	0.0	53.0	27.0	2.0	82.0	-7.0
09/15/1994	3.0	3.0	0.0	3.0	2.0	0.0	0.0	0.0	5.0	78.0	83.0	0.0	54.0	27.0	2.0	83.0	-5.0
	9367.0	8759.4		288.0	386.0	574.0	86.5	542.0	1876.5	20930.0	14047.1	8860.0	7059.0	4419.0	129.0	20467.0	