Divisor	Dividend	Quotient
157,710,000	175,670,000	115.8%
Annual	113,540,000	74.8
	142,569,000	94.0
92,460,000	109,000,000	117.9
Period	56,800,000	72,9
	89,509,000	96,8
· \	84,230,000	91.1

Columbia River
The Dalles

Clark Fork at nowport, Wash.

in thousands of acre-fit.

1914-15 1915-16 Total Normal.

15,005 27,427 59,515 19,838. 1913-14 100% Year 17,083 8,378 19,080 318,503 12,834 64.7% 11, 145 Period · Percentage Belationships. Year Period Snake River at Burbank, Wash. acre-feet, 100 % 36,933,333 119,800,000 48,500,000 36,300,000 26,000,000 Year 59.3% 21,896,667 65,690,000 30,810,000 21,260,000 13,620,000 Period Relationships. Percentage Year Period Columbia River at the Dalles millions of acre-fait. 100% 414.56 172,81 106.34 Year 135.41 58.990 81.41 244.24 108.40 55,14 Period 80.70 Percentage Relationships Year Period

Divisor 19,838 Annual	Dividend 17,083 15,005 27,427 12,834	200 tient 86.1.70 75.6 138.3 64.7	Clark Fork at Resport, Wash.
12,834 Period 36,933,333	11,145 8,378 19,080 36,300,000	86.8 65.3 148.7	
Annual 21,896,667	26,000,000 48,500,000 21,896,667 21,250,000	70.4 131.3 59.3	Snake River at Burbank, Wash.
Period	30,810,000	62,2 140,7 98.0	
138.19 Annual	135.41	77.0 125.1 58.9	Colembra Phiver at The Dallas.
Period.	80.70 35.14 108.40	99.1 67.7 133.2	

Delemme :-1. acre-Feet in Upper Columbia (a) Mean amuel Ren-Off (b) " for aper-July 2. Seas, aucertage (a) Claures Forse 1903 - 1909 - apr- July. # (b) Rolend. at Delles 1903-1909 annual and ape-july. 3, additional Seas Colge an Columbia -4 work up normals for 1913-14, 1914-15, 1915-16 in Up. Colemb, Clower FK. Suare at Burkauer, and Colember at Valles and Compute sear potque of these years, 4 N 0

26.89

19.71 10.26 43.30 4.30 4.75 8.26 5.42 3.96 3,90 -319.72 18,52 2) 40.81 38.71 9.26 3,57 4.86 7.71 4.36 2)7.41 14.50 4.98 2.86 4.17 3.71 2/15,82 13,52 25,80 28.02 7.91 - 2)10,49 2,90 18,91 1409 4.46 5,25 20,05 other + met flew of con Here to concere unt cool their flow for 40.47 would come their major 20.24 ranscom het de Ties ohn Hansurg the dearn. in tent. がらられ

DEPARTMENT OF THE INTERIOR

### UNITED STATES GEOLOGICAL SURVEY COOPERATING WITH THE STATE OF WASHINGTON DEPARTMENT OF CONSERVATION AND DEVELOPMENT

WATER RESOURCES BRANCH

404-406 FEDERAL BUILDING, TACOMA, WASHINGTON.

January 8, 1923.

Mr. J. E. Church, Jr.,
Mount Rose Observatory,
Reno, Nevada.

Dear Mr. Church:

Complying with a request by Mr. Fred F. Henshaw, District Engineer at Portland, there is being forwarded to you herewith blue prints of monthly and annual discharge of Snake River at Riparia and Burbank. You will note that the two records are simultaneous for a part of the time so that the one may be estimated from the other.

Very truly yours,

District Engineer.

Enclosures.

DRAINAGE AREA. 102 000

1980 T. T.			[DRAINAGE	AREA. 102,0	000	SQUARE MILES.	1		
3 - 1	The same		RUN-OFF.						
	ENDING	MAXIMUM DAY.	DAY.	MINIMUM. CALENDAR		ANNUAL MEAN.	ANNUAL MEAN PER	INCHES.	ACRE-FEET.
	(C) 14 Th (H) (N)			MEAN	MONTH.		SQUARE MILE.		
	1916	230,000	15,200	20,700	Oct.	64,100			46,500,000
	1917	256,000	16,200	18,500	Sept.	63,800			46,300,000
	1918	216,000	15,000	17,400	Sept.	58,800			42,600,000
	1919	167,000	10,900	11,800	Sept.	40,000	1		28,900,000
	1920	148,000	16700	15,900	Aug.	42,500			30,800,000
	1922	233 000	14500	15,600	Sep.	54,400			39 400,000
0								Netralished Helical Toll	音医C自有地态 CVISIO组。

#### PARTMENT OF THE INTE ED STATES GEOLOGICAL S WATER-RESOURCES BRANCH SNAKE RIVER NEAR BURBANK, WASH.

Cli-Mean matic Mar. Apr. May June July Aug. Oct. Nov. Dec. Jan. Feb. for year. (Drainage area 109,000 square miles) year. 1909 26,600 1910 28,100 47,800 40,800 37,500 34,400 165,000 164,000 159,000 78,900 25,200 13,900 15,400 67,600 1911 23,000 35,800 35,400 26,800 37,100 56800 73,500 12,4000 185,000 65,100 20200 17,400 58,300 1912 26300 29400 26400 35600 49900 41400 100,000 184,000 209,000 59500 23700 28,700 67600 1913 30100 33800 23200 24 400 28800 44900/24,000/66000 189000 61400 25200 19,100 64,200 1914 29500 32 300 24,800 32,900 33,400 65,100 92,900 130,000 96,700 32,400 14,000 17,100 50,100 1915 30700 34300 23400 23700 28400 34700 56500 74300 64400 30,200 16800 14,400 36,000 1916 21100 24,200 27,700 27,100 51,500 89,500 114,000 133,000 164,000 99,000 2.8,400 22.800 66,800 1917 28000 28200 26800 25500 28500 31700

### Yearly discharge of Snake River near Burbank. (151) /

[DRAINAGE AREA. 109,000 SQUARE MILES.]

DISCHARGE IN SECOND-FEET.													
YEAR ENDING		50 AND 1	MINIMUM.	CALL SCHOOL		ANNUAL							
SEPTEMBER 30.	MAXIMUM DAY.	DAY.	CALENDAI		MEAN.	MEAN PER	INCHES.	ACRE-FEET.					
			MEAN.	MONTH.		SQUARE MILE.							
1910	252,000	11,600	15,900	Ang.	67,600			49,000,000					
1911	242,000	15,600	17,400	Sept.	58,300			48,200,000					
1912	289,000	15,000	23,700 -	Aug.	67,600			49,100,000					
1913	298,000	15,500	19,100	Sept.	64,200			46,400,000					
1914	175,000	13,000	14,000	Aug.	50,100			36,300,000					
1915	122,000	13,000	14.400	Sept.	26,000			26,000,000					
1916	248,000		a1,100 -	Oct.	66,800			48,500,000					
	7/8/4	11.8.50	18 9 10		58.7								

## PARTMENT OF THE INTER OF STATES GEOLOGICAL SUNATER-RESOURCES BRANCH

SNAKE RIVER AT RIPARIA. WASH.

		SNA	KE RI	VER A	T RIP.	ARIA,	WASH.						
li- matic rear.	Oet.					Mar.			June	July	Aug.		Mean for year
1916	20700	23900	27/00	26500	50,500	86200	109000	128000	157000	92900	26400	2/000	6410
	THE STATE OF THE S	<b>《在阿拉拉拉拉拉拉拉拉拉拉拉拉拉拉拉拉拉拉拉拉拉拉拉拉拉拉拉拉拉拉拉拉拉拉拉拉</b>				29,400	SERVICE SERVICE						No. No. of the late of the lat
						59300							
	AMERICAN TO THE THE PARTY WILLIAM VINCENSIA	N. A. S. W. Garden, N. S. S. Lander, C. S. S. S.	Martin Company of the			41,900			ACTORISM TROOK ON ILL MARKS TOP THE				MATERIAL COMMITTEE
1920	16,500	22,100	24.400	30,500	29,200	35,800	56.400	108,000	114,000	39,900	15,900	17.500	42,50
1921	29,700	35,600	32,300	46,400	48,600	182,200	98,600	191,000	179,000	43,500	19,700	18900	68,80
1922	22,200	29,600	39,300	25,600	25,800	39,500	81400	156,000	164,000	34,900	18,600	15600	54.40
													g visit
					-					EN PHINE	De creme a	State and	
										08050	All Constitutions		
								MATERIAL STREET					1
										PASADAL.			
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	1 TO 1	FT TAKE			225 14								V.X
							Version of						
												TO SERVICE	
		12.50											
										4			
				7									
					40								

Dividend Quotient Divisor 4,017,800 1921-22 84.0% 9,782,800 Annual Briod 2,857,500 2,741,200 95.9 Spokane River at Spokane, Wash

### Frake Riven. At Riparia

.1 0 86,200 6.5 0 8 8 1945-16 8.2 0 1 9 0 8.0 -59 0 2.9 0 1.0 1.20 # 76920 5.4 6.6 5.2 3.0 5.6 9.4 1916-17 0 97 7.4 0 7.0 1.0 3.3 2 4.5 5 2 6 3 6 9.1 2 0 39 459 0 17-18 .3 0 0 8 89,900 -1 1 0.0 5.0 4 III. 4 0.7 0) 1 9.9 20 7.4 0 02

714.40 \* 705,400\* 25.40 \*

.0 2.2 -2 6.0 4 0 1.9 9 8 68 1 0 4.0 -5 9 0 .3 1 8.1 0 1 2.0 100 1.8 -

478.90%

6.5 0 223235013 40956840099 0 0 0 0 0 0 1 0 7.5 10.20 9.7 5.6 3.6 6.3 8.8 23344000 0 0 0 0 0 1.0 9.5 9.7 0 7 0 4 0 0 0 8.9 0 5.0 5,5 2995559 0 田 田 田 田 田 田 田 田 田 田 田 田 0 0 0 0 1.4 0 1 0 4.0 0 1 8.6 15.60 65-2.50 0.70 0.7 5.4 Oct. 25.40 6.50 1 29.70 142.20 3.9 6.6 0 5.5 NOV. 0 7.00 2 2 2.10 5,60 . 160.70 7.1 0 5.20 0.8 0 Dec. 2 2.20 4.40 2.3

192.00 \*

6.5 3.0 62 9.1 0 Ten 4.4 0 0,5 0 6.4 19.90 0.5 2 5.6 0 4 Feb .3 0 2 6.00 2 9.2 0 8.6 23.20 6.2 25430 9.4 0 Mar 1.9 0 5.3 0 34,800× 9.0 0 7.4 9.9 0 Apr. 6,8 0 5 6.40 8.6 0 8.1.0 ->6 28.0 1 7 7.0 0 May 0 1 0.0 20 00 11 J. 4.00 1 0 8.00 1 9 1.0 8.00 8 2 57.00 0/1.00 45.00 93/00 10 0 6.0 9 50 7.0 0 1.00 1 4 5 5.00 N June. 9.30 517 10 10 11 9.0 0

855.30

34

92.90 0.70 JULY 1 8.10 39.90 8 3.50 35.10 0 93,9 329,00 26.40 2 2.20 0 19.90 Aug, 12.00 15.90 19,70 44 1 1 6.1 0 1.00 8.50 17.40 1180 Jept. 1750 18.90

105.10

## ARTMENT OF THE INTER D STATES GEOLOGICAL SO WATER-RESOURCES BRANCH

Washington \_\_\_\_\_ File | Washing Number | District

lli- matic	Oct.	15 A.A.	Dec.	A SHE WAS				A 61- 12-12	June	July	Aug.	Sept.	Mea fo yea
1916	20700	STATE OF THE PARTY	27100	CONTROL OF	SHEET SHEET IN	SEE TO SENT HERE	RESOURCE MATERIAL	AND DESCRIPTION OF THE PARTY OF	157000	92 900	26400	2/000	
1917	25400	26,600	25,200	23,000	25,600	29,400	97400	177,000	201000	93,900	22200	18500	63
	SEACHER AND RESIDENCE TO SERVICE THE PARTY OF THE PARTY O	THE MONTH OF THE PROPERTY AND ADMINISTRATION OF THE	60,800 22,200	SERVICE OF A CONTRACT OF A CON	THE STREET SHEET SHEET PROJECT AND SHEET SHEET.	S. P. C. STENSON STREET, STREE		A STATE OF THE SECTION ASSESSMENT OF THE SECTION OF	AND THE SECOND PARTY OF THE PROPERTY OF THE PR				THE RESIDENCE OF THE PARTY OF
1920	16,500	22,100	24.400	30,500	29,200	35,800	56.400	108,000	114,000	39,900	15,900	17,500	42,
			32, <b>30</b> 0 39,300										
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## PARTMENT OF THE INTE

SNAKE RIVER NEAR BURBANK. WASH.

		SNAF	CE RIV	ER NE	AR BU	RBANK,	, Wash						
Cli- matic year			Dec.							July	Aug.	Sept.	Mean for year.
1909												26 600	
1910	28 100	47.800	40800	37500	34400	165000	164000	159000	78900	252.00		OF THE REAL PROPERTY AND PERSONS ASSESSED.	67600
THE RESERVE AND ADDRESS OF THE PARTY OF THE													58300
			PROGRAM TO A STREET WAS A STREET, AND A								THE RESERVE AND DESCRIPTION OF THE PARTY OF	AND RESIDENCE AN	67600
1913	30100	33800	23200	24 400	28800	44900	124,000	166000	189000	61400	25200	19 100	64,200
1914	29500	32 300	24,800	32900	33400	65/00	92900	130000	96700	32400	14000	17/00	50100
													36,000
													66,800
		A CONTRACTOR OF THE PARTY AND	26800						Contract of	Esta II			
		-		NAME AND ADDRESS OF THE PARTY.		de service			Bankaga and and an array and	and the state of t			
					THE STREET STREET				PRE-100-1 1-00-1-0	de Marie e Maria de Maria de Maria			
													Name of
11 Y		To Carlo									A No.		
2020		die e											
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									The state of the s		None of		
Control of the last of the las	STATE OF THE PARTY OF THE PARTY.	STREET, STREET	CALL STREET, S	· · · · · · · · · · · · · · · · · · ·	THE RESERVE	SPERMINE SERVICE	AND STREET, ST.	ALCO STORY OF THE PARTY.	PERSONAL STATE OF	AND DESCRIPTION OF THE PARTY OF	STATE OF THE PARTY	THE REAL PROPERTY.	

12,770 17,843	n
12,790 14,643 114.5	
Period 6,734 52.7 6,734 60.4	
Period 7,727 60.4 15,605 122.0	
15,314 119.7	
13,062 102.1	
1921-22 12,720 99.5	

Annual 1921-22

Clark Fork
at Newport, Wash

Dinser 4,782,800 Annual 2,857,500 Apriloly Period	Dividend 2,741,200 3,911,900 6,025,600 4,035,600 4,035,800 1,605,800 2,267,200 2,969,400	200tient 57.3% 81.8 127.0 93.5 84.4 56.2 79.3 119.6 103.9	Spokane River  Spokane, Wash.
	2,511,400	87.9	

1903-04	1904-05	1905-06	5 1906-07	1907-08	1908-09	1909-10	1910-11	1911-12	1912-13
Up. Calend. 52, 52, 5	521,112 A	I.F.				dogla		Vis	
Cleans Fr. 111.2 19,180,000 h.F.	57.3	64.0	129.3	112.0	92.6	107.6	97.5	97.5	126.1
Suare 45,517,832A,F.						107.7	92.7	107.9	101.9
Cal. attalles 115.8 151,710,000 A.F.	66.8	74.8	109.4	94.0	91.6	101.6	89.5	87.6	101.6
Willamette, 132,5 albany, Cregani Sparence	64,0	76.9	108.3	89.5		96.7	77.9	101,5	Weighted To 98.6 7 Kom
Up. Colub. 1-32,120,296 A.F. 31,236,6	17 A.F.								10.
Clare Fr. 114.5	52.7	60.4	122.0	119.7	102.1	95.7	92.2	100.9 FX	133.1 8.
Sucre 28, 467, 954 A.F.						90.6	94.8	117.0	114.4 7
Cal. atalelles 117.9 92,460,000 A.F. 117.9	61.4	72.9	1032	96.8	91.1	94,9	87.7	90.4	110.4 8
Willametto 124.0	68.9	888	101.8	88.3	6817	62,0	79.0	100.8	133,3,00, 8
Sporeane.									7

-11	1911-12		1912-13	1913-14	1914-15	1915-16	1916-17	1917-18	1918-19	1919-	20 1920-Z	1921-22
	V-5			103.7	93.6	112.9	93.7	104,5	101,3	93,	113,5	
.5	97.5		126.1	89.1	78.2	143.0	118,1	112.1	79.9	80,3	113.9	92.7
7	107.9		101.9	79.7	57.1	5106.6 Q	parie 109.1	100.5	68.3	77-		
,5	87.6		101.6	89.3	70.1	113.9	99,5	97.7			7 117.7	
9	1015		Weigh	7 Karel 8 81.4	av. 76.7	116.73		1043	82.1		0 109.7	
• /	101,5		18.6	81.4	61,2	132,5	98.6	100.6				
						3	216.2					
		6.		105.5	79.1	113.0	97.0	104,9	100.0	92.6	114,1	
2	100.9	FK	133.1	85.9	64,6	147.1	130.3	106.5	79.6	86.1	114,3	99,5
.8	117.0		114.4	74.7	47.8	108, 2 (Be 119, 5 (Be (109,4)	men) 129.2	87.5	65.4	72.3	116.3	99.1
.7	90.4		110,4	87.3	59.6	(109:41)	111.5	89.4	81.0	72,6	109.6	
0	100.8		133,30	74,2	65.2 70,4	119,12	175,85	98.4		33.4	115.0	

Nomals Mp. Col 52,521,112 44,80 14,8 Class Fork 19,180,000 16,36 16,4 45,517,830 38.83 38,8 Inake 117,218,914 00.0 99.99 17267957)312366170(4298 29069828+ 117,219) 52521112 (44.80 21667886 2970,000,017.85 72,674,571) 7267 4571 8 94 4 (6.36 570254290 61532293 745810560 42496896 666558210 117,218,944)455178,32,0138-834 12487131 35214880 31,236,617 12,970,000 17.85 Clarks Fork 28,467,954 Snake 100.00 72,674,571

4

	1905-6	1906-7	1907-8	1908-9	1909-10	1911-12	1912-13	1913-14	1914-15	1915-16	1916-17	1917-18
Odober		5,830	7,010	3,620	6,210	4,800	3,040	270	4,600	2,500	5,000	2,400
November		7,800	8,270	5,620	21200	7,200	9,030	6130	5,590	4,980	7,100	4,600
December		32,800	23,600	7,620	29.800	6,820	7,130	12,600	7,440	14,000	12,600	7,200
January	53,400	31,000	29,400	179,000		10,100	8,920	127,000	10,900	31,500	8,600	7,100
February	45,800	123,000	20,900	76,600		10,000	11,200	76,100	43,300	88,000	39,500	13,100
March	123,000	180,000	60,800	73,800		15,700	18,300	184,000	56,800	173,000	35,800	50,000
April	152,000	230,000	61,300	151,000		16,900	64,900	218,000	78,600	181,000	161,100	
May	110,000	130,000	40,600	124,000		36,300	41,800	119,000	108,000	83,600	116,800	
June	60,100	59,500	18,200	57,200		10,600	13,400	30,800	19,000	32,400	40,100	
July	13,900	14,800	4,450	14,800		2,690	5,250	7,130	4,670	8,850	7,400	
August	3200	5610	928	2,170		928	2,760	1,800	1,630	2,340	1,900	
September	3,450	5,290	1,350	2,200		2,220	1,990	2,550	1,980	2,530	1,800	
Total for Year		825,600	276,800	697,600		124,000	187,000	788,000	343,000	625,000	438,000	
March	123,000	180,000	60,800	73,800		15,700	18,300	184,000	56,800	173,000	35,800	
April	152,000	230,000	61,300	151,000		16,900	64,900	218,000	78,600	181,000	161,100	
May	110,000	130,000	40,600	124,000		36,300	41,800	119,000	108,000	83,600	116,800	
June	60,100	59,500	18,200			10,600	13,400	30,800	19,000	32,400	40,100	
Usly	13,900	14,800	4,450	14,800		2,690	5,250	7,130	4,670	8,850	7,400	
Total March - July	459,000	614300		420,800		82,190	143 650	558,930	267.070	478,850	361 200	
" April-July	336,000	111		347,000		7.8	125,350			305,850		

LOCATION. -- In the Sw 4 Sec. 25, T. 26 N., R. 9 E., at the lower end of Indian Valley, about 2,000 feet below Arlington Bridge, and 14 miles below Crescent Mills, Plumas County. Spanish Creek enters 4 miles below the Station.

DRAINAGE AREA. -- 740 square miles.

RECORDS AVAILABLE. -- January 1, 1906, to December 31, 1909; September 10, 1911 to March 31, 1918.

GAGE. -- Vertical staff in three sections on right bank near observer's house, read by Eugene Cook. Same location and datum used throughout period of record, but lowest section was 0.46 foot too low from 1011 to August 12

was 0.46 foot too low from 1911 to August 12, 1915.

DISCHARGE MEASUREMENTS. -- Made from cable 30 feet below gage or by wading.

CHANNEL AND CONTROL. -- Bed composed of gravel and small boulders: fairly and

CHANNEL AND CONTROL. -- Bed composed of gravel and small boulders; fairly permanent. At low stages water is deep and sluggish at gage.

EXTREME OF DISCHARGE. -- Maximum stage recorded during year, 10.4 feet at 5 p.m. March 20 (discharge, from extension of rating curve, about 7.040 second-feet.); minimum stage recorded, 0.68 foot, October 1-4 (discharge, 34 second-feet.)

recorded, 0.68 foot, October 1-4 (discharge, 34 second-feet).

1906-1916: Maximum stage recorded, 20.2 feet at 6.30 a.m., crest of flood of
March 19, 1907 (discharge, from extension of rating curve, about 11,700 second-feet);
minimum stage recorded, 0.75 foot, August 9-15, 1908 (discharge, 12 second-feet).

\*\* DIVERSIONS.--Water is diverted from Indian Creek for irrigation in Indian and Genesee Valleys
REGULATION.--None.

ACCURACY. -- Stage-discharge relation changed below discharge 280 second-feet, March 20; unchanged above this stage since station was established. Rating curve before change fairly well defined below 4,000 second-feet; after change fairly well defined between 75 and 4,000 second-feet. Gage read to hundredths once daily. Daily discharge ascertained by applying gage heights to rating table. Records good.

	16								PERCE	ENTAGE RE	LATIONSHIPS	S CEXCLUDIT	NG 1906-7)			
	MEAN EXCLUDING YEAR 1306-7	1905-6	1906-7	1907-8	1908-9	1909-10	1911-12	1912-13	1913-14	1914-15	1915-16	1916-17	1917-18			
THE REPORT OF THE PARTY OF THE	2250 = 001			177.5				77.0	AND REAL PROPERTY AND ADDRESS OF THE PARTY AND		63.3	126,6	60.8			
	7,870 12 1.81 12,880 12 2.96			105.1	91.6 71.4 59.2 384.2	157.2	121.5	102.0	6.8 77.9 97.8 272.5	116.5	63.3	90,2	58.4			
	12,880 2 2.96			105.1	59.2	231.4	53.0	55.4	97.8	57.8	108.7	97.8	55.9			
	46,590° 10.71 42,450° 9.76	114.6		63.1	384.2	231.4	21,7	19.1	2725	23,4	67.6	97.8 18.5 93.1	15.2			
	42,450 9.76	107.9		49.2	180.4		23,6	26.4	179.3	102.0	207.3	93.1	30.9			
	79 120 - 1810	155.4		16.8	180,4		19.8	26,4 23,1 53,8	232.5	71.8	218.6	45,2	63.2			
	120.530= 2771	126.1	1	400	125.3		14.02	538	1800	65,2	150.2	133.7	60, 2			
	86,680 9 19.93	126.9		40.9 46.8 58.1	1430		1110	48.2	180.9 137.2 98.4	124.6	96.4					
	31,310 - 7.20			- 581	143.0		41.9 33.9 35.0	40.2	131.0	124.6	76.7	134.7				
	7,6809 1.77	191.9		50.1	100.1		35.9	42.8	70.7	60.7	103.5	128.1				
	1,9609 .45			57.9	192.7		35,0	68.4	92.8	60.8	115.2					
		163.3		47.3	110.7		47.3	140.8	91.8	83.2	119.4	96.9				
	2,23051	154.7		60.5	98.7		99.6	89.2	114.3	98, 9	113.5	80,7				
	1 2 8														1 1 1 1 1 1	
	434,9308			63.6	160.4		28.5	43.0	181.2	78.9	143.7	100,7				
	OF POSSOR AND ADDRESS OF THE PARTY OF THE PA															
	3286009	1727		560	1281		250	112 9	1000	915	11100					
		1./-		56,4	128.1		25.0	43.7	170.0	81.3	145.7	109.9				
	246,2007	136,3		50.6	140.9		27.0	50.9	152.3	85.4	124.2	132.2				
				h												
														<b>BID BIRE</b>		
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REFERENCES SEEDING																
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	A CONTRACTOR OF THE PROPERTY O															
		SECURE BESTER BETTER														
		THE REAL PROPERTY AND ADDRESS OF THE PARTY ADDRESS O		NAME AND DESCRIPTION OF PERSONS				BERGER S								RIGHT
							The second secon	THE RESIDENCE OF THE PARTY OF T	THE RESERVE THE PARTY NAMED IN COLUMN 2 IN	AND REAL PROPERTY AND ADDRESS OF THE PERSON NAMED IN		THE RESERVE TO SERVE THE PARTY OF THE PARTY		the state of the s		

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							PERCENT	AGE RELAT	TION SHIPS (L	(INCLU DING	9 1906-7)										
	INCLUDING YEAR 1906-07	1905-06 1	1906-07	1907-08			1911-12	1912-13	1913-14			1916-17	1917-18								
	4,120 " 0.86		141.5	170.1	87.9	150,7	116.5	73,8	6.6	111.7		121.4 90.2 85.8 19.0 19.4 40.5	58.3			A BOOK TO					
	7,870- 1.65	ALL	99.1	160.7	71.4	269.4	41.5	102.0	77.9	506	63.3	90.2	58.4								
V V	14,690 - 3.07	118.2	223.3 68.6	651	51.9	202,9	46,4	48.5		24.1	95.3	85.0	49.0								
A RESIDENCE	7,870" 1.65 14,690" 3.07 45,170" 9.44 49,772" 10,41 88,290" 18.45 131,480" 27,48 91,010" 19.03	92.0	247.1	42.0	396.2 153.9 83.6		20.1	19.7	152.9	50.6 24.1 87.0 64.3 59.8 118.6	176.8	79.4	26.3	ATTEMENT							
	88,290- 18.45	139.3	203.8	68.9	83.6		17.8	20,7	208.4	64.3	195.9	40,5	56,6			AHEE	A HARE		A RESIDE	A CONTRACTOR	
	131,480 2 27.48	115.6	174.9	68.9 46.6 44.61 53.3 53.0	114.8			49.4 45.9 39.3 62.5	165.8	59.8	137.7	122.5		A HE BY		Addition	A REPORT OF		A B B F	A MARIE	
	91,010 19,03	120.8	142.8	44.61	136.2		12.9 39.9 31.1 32.0	45.9	130.7	118.6	91.9	128.3				AME			A HILLY	A PRINT	
	34,130 ,0 1.14	176.1	174.3	53.5	167.6		31.1	39.3	90.2	55.7 55.6	94.9 105.4	117.5				148 00				AMA	
	8,400 - 1.76 2330 - 1.49	165.4	176.2	348	93.1		34.8	118.5	77.3	70.0							A PINION NO.			A	
	2,330 <sup>10</sup> ,49 2,540 <sup>10</sup> ,53	135.8	208.3	39.8 53.1	86.6		3 <i>q</i> .8 87.4	78.3	100.4	78.0			Alle		Alle	Alle				A	
		Allin	AND														ARIS				
	478,3002		172.6	57.9	145.8		25.9	39.1	164.8	71.7	130.7	91.6	A STATE OF		A REPORT OF	A BEST	ABBE	A BARRY			
		Alle								A				H M M M M M M M M M M M M M M M M M M M	A BIRE BUILDING	A BENEFIT	ABBOOK	<b>EEE EEE EEE</b>		ARRIVE	
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		Aller			All								A		AHH					A STATE OF THE STA	
		A		A HAR						A								AHH			
		ARTHUR	ANDE	A BEST						ANDY											
	357,100 10	128.5	172.0	51.9	117.8		23.0	40.2	156.5	74.8	134.1	101.1		R HER ER F		A THE T					
TO REEL PROPERTY.	265,000-	126.8	163.9	47.0	130.9		25.1	47.3		79.3	115.4			A HILLIAN F	A HARRIST		A SERVICE OF	AND			
		ARRIVE								A		AHAR		MALE			A STATE OF	A BAR S			ARAN
		Alle	AHI		All		A		Alle						A DELLA			AL BERT			ABBU
		A ROBERT OF						A			A		1		A SHAPE OF			A		The River	A SERVE
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AND RESIDENCE SANDA	A DESCRIPTION OF STREET	A RELEASE					A BOOK	Alle	R. T. T.	Alle	Addisor	A									ABBI
AND REPORT OF THE PARTY OF THE		A BUILDING !	ALLES				AT BEEN DO	A BORRES		Alle	ARREST	AF HARRIST P	A COLOR		ANDREAM	A TOP OF					AMAR
		A CE LEGISTON	A	Aller			AL REPORT	1 4 1 1 1	A BUILDING	A	ABBE	A MENT	A BALLEY	SERVICE	A REPORT OF	MEST					AHH
		A PROPERTY		Alle			Alle		Alle	AMILY								Allen	y		A PAR CHES
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DE REFERENCES	A REPORT OF THE PARTY OF THE PA	A THE PROPERTY					A PARTY		Alle			AN RELEASE		A SINT FOR ST							A BE BE !
	A CONTROL OF THE PARTY OF THE P	ARRIBE		AND					Allegy	Alle		A BELLEVIEW BY	ALLEY				A BEE				*
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		ANDRES					A THE REST	A TOTAL	A	Addition	A							1		AND	
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THE REAL PROPERTY.	The state of the s	Addition		Alle			Alle		Allenie	ATT			ANDER	4 2 5 50 5					1	AN ENERS	
	Figures in red indicate per cent for each month represents of	ent that mean																		AND	A BEE
	for each month represents of for the years.	mean total											June 1								

Weighted % al 1913-14 1914-15 1915-16 19	11 17 917-10	1919		
Je 9. 1913-14 1914-15 1915-16 19	16-17 1917-18	1918-19	1919-20	1920-21
Up. Columb 44.8 46. 2 41.7 50.3	42.0 46.8	45,4	41.7	50.0
			/	50.9
Clarens, 16.4 14,6 12,8 23,4 1	19.3   18.3	13.1	13,1	18.6
Suare 38,8 30.9 22.2 42.0 4	2.4 39.0	26.5	28.2	45.7
100,000 017 76.7 115.7 100	3.7 104.1 8	15.0 8.	2.0	
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Up. Columb. 43.0 46.7 35.0 50.0 41.7	45.1 43.0	39.8	49,1	
00 190 153 115			1,1,1	
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100.00 91.3 65.2 119.1 115.5	98.4 82.8	07.16		
	0 2.0	83.4	115.6	
		5		

### ABILITY OF LAKE TAHOE TO RECOVER IF DRAWN DOWN.

Based on letters to Robert A. Allen, Assistant State
Engineer for

Chules

										Correction	ons Applied	I for Cong	litions of	Storage '	in Coour	d'Alene	Lake				
	1904-5	1905-6	1906-7	1907-8	1908-9	1909-10	1910-11	1911-12	1912-13	1913-14	1914-15	1915-16	1916-17	1917-18	1918-19	1919-20	1920-21	20Eal	1921-22		
Actober.	81200	177000	96100	117300	100 100	97800	136000	9/900	120500	113900	104700	86400	10/2300	05200	98700	78000	166,600 1	885600	100,500		
Movember	9/100	140000	35/100	113.900	126100	543600	330,800	186700	322400	189200	255600	119300	136,900	92300	121700	97.500	230,500 3	450200	123,200		
December	114800	144600	350800	150000	115,000	459300	268000	136900	187,900	145 400	145000	206900	122800	866,200	223200	107,000	278,600 4	022400	724,800		
Jamary																	576,4005				
February																	565,400 4				
march'																	1,011,600 10				
april																	1,065,000 17				
may	538,100	679,000	1,353800	1,035,600	919,900	891,000	946,700	1,295300	1,750,600	810300	454,900	1293800	2,219,900	810,500	991,900	965800	1,423,600 18	360700	1,239,800		
June	421,300	440,700	681,000	661,500	771,600	304100	509,500	574000	910300	170,900	272,500	1,066,400	1,187,200	439,300	331,200	453,300	494900 9	689700	237,800		
	186,300	178,000	248500	178,800	224,400	138,000	186600	194600	297,600	121,700	120,100	528,000	292300	60,300	115,900	145700	138300 3	355100	120,800		
August	91.100	88600	126,300	102100	111.700	91,000	100500	100200	115500	76400	80,400	158800	121,400	89,100	78,500	88,800	85,000 1	714400	99300		
Sextember	93,800	95,300	126400	86,100	93,000	91,000	95,500	-126,400	87,300	85,900	77,200	117,200	106,100	71,100	73,700	109,800	75,100 /	6/0900	92,900		
																			740 1960		
annual	2,741200	3911900	6,075600	4,473,600 4	4035,000.	5,964,500	4261,2001	4,583,600	6,221,800	3,904,800	2,750,500	6,397,3003	5,942,300.	5,860,000	4,701,800	3,371,700	6,111,000 81	307800	4017,800		
april				1,093,500																	
May				1,035,600																	
June				661,500																	
July	186,300	178,000	248,500	178,800	224400	138,000	186,600	194,600	297,600	121,700	120,100	528,000	292,300	60,300	115,900	145,700	138,300				
0	1 -6		22 . 1 . 1	201-1	2 - 1 2 1	0 - 5 -	2.102.000	7 20 2 2 2	11.1.1.19.	0 101	1.1.0.0	111127	11 - 1 - 1 - 1	h 7 . C c	0	00-07-0	212.0				
Period	1,605800	2,267,200.	3,416,200	2,969,400 2	(0)/1400	2,787,000	2423,000	000,000	7,744,800	2,168,600	1,447,400	4,163,500	4919400	2,319,000	2,7 78,500	2201300	3,121800 48	37 77 306	2/14/200		
							,					PT	Ron								
												Percentag	e Melal	iouships							
DIE														Max	ect June	24161100	13 00-1-1				
October 1														11000	THE PARTY OF THE P	2119,400	13,775,100/				
Lecewher																					
Jebruary		4	4	111												1				VEGET E	
March																					
april																					
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1																					
Turnal	57.3	81.8	127.0	93,5	84.4	124.71	89.09	95.83	130,08	81.64	57,51	133.75	124.25	12252	98.31	70.49	127.77		2		
																			March		
apr-July	56.2	79.3	119.6	1039	87.9	91.53	84.19	105.93	155.54	75.89	50,66	145.70	172,16	81.12	97.23	77.25	109.25				
						3.													84.3 %		
										COLUMN TO SERVICE SERVICE	CONTRACTOR OF THE PARTY OF THE		and the same of the same of					The same of the same of			

			SPOKA	VE RIVER	AT SPOK	ANE WAS	H.			8	0,612,800					
	Correct	and Andin	of for Con	NE RIVER Drainage A ditions of	rea 4000 5	g.mi. Coour	· d. alana	1								
E STATE OF THE STA	Correctio	HIS HPPILE	y for con	allions of	Storage	in coear	a niene	Lake								
12-13	1913-14	1914-15	1915-16	1916-17	1917-18	1918-19	1919-20	1920-21	Lotal	1921-22					Vormal	Per cent
20500	113000	104100	86400	10/200	05700	08700	78000	1/0/0/00	1885600	100000					110,900	2.32
322400	180700	755600	1/2300	136900	92300	121700	07 500	230500	3450200	123,200					203,000	4.24
187000	145400	145000	206000	122800	866200	773200	107000	208600	4022400	424000					236,600	4.94
28/200	202500	117400	1463.00	132300	1751700	447800	175300	60/1/00	25/97/20	165,800					March March 1976 (March 1976)	6,38
24/4/00	202,00	146500	310000	144400	1153500	300000	153700	565400	481/2200	100200					305,200	
															283,300	5,92
				152,700											590,800	12,35
				1,220,000											010,100	21.12
750,600	070,300	454,900	1,293,800	2,219,900	010,500	991,900	965,800	4425,600	18560100	1,257,000					080,000	22,58
110300	170,900	272,500	1,066400	1,187,200	439,300	331,200	433,300	494900	9609700	237800					570,000	11.92
477,600	121,700	120,100	15000	292300	60,300	110,900	145700	108300	5575100	120,00					197,400	
15,500	76400	80,400	158,800	121,400	89,100	78,500	88,800	85,000	1714400	99300					100800	2.11
87,300	35,900	77,200	117,200	106,100	71,100	73,700	109,800	75,100	81307800	4,012,800	ALCOHOLOGICA				94800	1.77
221,800	3,904800	2,750,500	6,397,300	5,942300	5,860,000	4,701,800	3,371,700	6.111,000	8,307800	4,017,800				4	782,800	100.00
A86,300	1,065,700	. 599,900	1,275,300	1,220,000	1,008,900	1,339,500	642,500	1,065,000								
750,600	810,300	454,900	1,293,800	2,219,900	810,500	991,900	965,800	1,423,600								
710,300	170,900	272,500	1,066,400	1,187,200	439,300	331,200	453,300	494,900								
297,600	121,700	120,100	528,000	292,300	60,300	115,900	145,700	138300								
14,800	2,168,600	1,447400	4,163,500	4919400	2,319,000	2,778,500;	2207300.	3,121,800	148577300	2,741,200				2,	857,500	59.75
			PT	80-0												
			Percenta	ge Relate	ionships											
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														19 24 19 25 8		
130,08	81.64	57,51	133.75	124.25	12252	98.31	70.49	127.7	7	2	BREEKE SE					
										Mardham						
155.54	75.89	50,66	145.70	172.16	81.12	97.23	77.25	109.21		100 0						
		ERREE								84.3 %		SEESES SES	BE BURE E			
										1					TO BE SEED FOR	

Sporane Pinen

		COLUMBIA RIVER at TRAIL, B. C.	
		Drainage Area 34,000 Sg. Mi.	
	1912-13 1913-14 1914-15 1915-16 1916-17	Total 8 yr. 1916-17 1917-18 1918-19 1919-20 1920-21 1921-22 Total 8 yr.	
October	2,880,000 3,030,000 2,350,000	8,260,000 2,601,000 3,290,000 2,134,000 4,359,000 23,490,000 23,940,000 23,940,000	
November		6,730,000 1,732,000 1,761,000 2,053,000 1,297,000 2,422,000	
December		4830,000 1,205,000 1,666,000 1,586,000 965,000 1,765,000	
January	1,270,000 1,229,000 1,000,000	3,490,000 867,000 1,716,000 1,224,000 935,000 1,377,000	
February		2,032,000 689,000 1,155,000 1,172,000 739,000 1,189,000	
March	1,090,000 1,060,000 1,410,000	3,56,0,000 652,000 1,131,000 996,000 719,000 1,396,000	
April	2,610,000 2,710,000 2,680,000	8,000,000 1,029,000 2,469,000 2,047,000 916,000 2,178,000	
May	5,310,000 7,690,000 6,760,000 6,110,000	20,560,000 4,870,000 6,948,000 6,579,000 4,556,000 7,194,000	
	15,600,000 11,300,000 7,320,000 11,400,000	30,020,000 11,782,000 11,901,000 11,603,000 8,688,000 14,578,000 8,588,000 14,578,000 88,572,000 88,572,000 11,683,000 98,498,000	
	11,100,000 12,300,000 8,610,000 16,100,000		
	7,690,000 6,890,000 8,120,000 8,360,000		
September	4,970,000 3,910,000 4,560,000 5,160,000	13,630,000 4,082,000 4,516,000 4,302,000 4,243,000 3,642,000	
Annual	54,200,000 48,900,000 59,000,000	162,100,000 49,200,000 54,900,000 53,200,000 48,900,000 59,600,000	
111111111111	37,200,000 30,700,000 37,000		
April	# <del>2012                                  </del>		
May	B 2018		
June			
July			
Period	33,900,000 25,400,000 36,290,000	75,590,000 39,286,000 32,755,000 31,235,000 28,917,000 35,633,000	
		法国 pro ( )	
CONTRACTOR			
Marie San			
A STATE OF THE STATE OF			

Columbia River at Trail, B.C.

# Columbia R. At Trail. Total

by Monthly totals

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Divisor	Dividend	Quotient	Colun	nbia A.	
8	23,940,000 15,995,000 12,017,000 9,609,000	2,992,500 1,999,375 1,502,125 1,201,125	Trail		
Normals	8,454,000	1,056,750	Divisor	Dividend	Quotient
	16,839,000	2079,875	1.0181	31,820,000	31,236,617 Corr, Period Normal
	98, 572,000	11,071,500	31,236,617	33,900,000	108.5%
	34,415,000	7,671,250		25, 400,000 36, 290,000 30, 286,000	1
	427,900,000	53,487,500	Period	32,755,000	
427,900,000	23,940,000	5,59%		28, 917,000	92.6
Manthly	9,609,000	2.8/			
76 ×	8,454,000	1.77			
of year	50,707,000	3.89			
	88,572,000 98,498,000 61,370,000	20.70 23.02 14.34 8.04			
	39,415,000	99.98			
Period	254,416,000	59.46			
1.0184	53,487,500	52,521,112 Cort. Ann. Normal			
52,521,112	54,200,000 48,900,000 59,000,000	103.2% 93.1 112.3 93.7			
Annual	49,200,000 54,900,000 53,200,000 48,900,000 59,600,000	104.5 101.3 93.1 113.5			

1.9834	7		Colui	mbia River	at
Mult	Mult.	Prod.	Tr	ail, B.C.	
100747	28	55.537		ing Sec. It. to	Acre-Ft.
1.98347	30	59,504	Both in th	housands	
	31	61.488	Mult.	Mult.	Product.
61.488	42,3	2,600.9	55.538	12.4	688,7
Mousand	53,5	3, 295.8		20.8	1,155.2
Monands moct.	53,6	2,133.6	Feb.	21.1	1,171.9
00.1	70.9	4,359.5		21.4	1,188.5
61.488	22.6	1,389.6			Carley Agency Eggs
	19.6	1,205.2			
Dec.	27.1	1,586.4			
	15.7	965.4			
	28.7	1,764.7			
61.488	14.1	1,715.5			
,	19.9	1,223.6			
Jan.	15.2	934.6			
	22.4	1,377.3			
"	10.6	1,131.4			4
March	16.2	996.1			
	11.7	719.4			
	22.7	1,395.8			
11	79.2	4,869.8			
May	113.0	6,579.2			
	74.1	4,558.3			
	117.0	7,194.1			
η	205.0	12,805.0			
July	186.0	11,006.4			
"/	240.0	14,757.1			
1)	190.0	7,071.1	-		
"	113.0	2948.9			
Aug.	119.0	7,317.1			
11-7.	14 4.0	2,809.0			
No. of the last of	127.0	190011		1 7 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

1.98	3 471	
Multi	Mult.can	Product.
1.983471	30	59,504
59.504	29.1	1,731.5
1917-21	29.6	1,761,3
Thousands	21.8	1, 297.1
	40.7	2, 421,8
59.504	17.3	1,029.4
April	41.5	2,469,4
	34,4	2,046.9
	15,4	916.3
	36.6	2,177.8
59.504.	198	11,781,7
June	200	11, 900,8
	195	11,603.2
	146	8,687.5
59.504	6.8.6	4,081,9
Sept.	75.9	4,516.3
, ,	72.5	4,302.1
	71.3	4,242.6
	61.2	3,641.6

Columbia River at Trail
Changing Sec-tt. to Acre-tt.

Error Columbia at Trail, B.C.

ans	nual	apr-	July
+ 43.00 18.11 12.14 13.91 + 87.16 -72.48 8 + 14.68 + 1.835	10.93 21.77 20.09 19.69 -72.48	47.11 30.34 6.52 14.29 + 98.26 - 83.77 8) + 14.49 + 1.811	14.07 35.41 20.42 13.87 -83,77

COLUMBIA RIVER AT THE DALLES OREGON (Drainage Area 237,000 sq.mi.)

														a 237,000 :							
												Run off e	expressed ii	n millions	of acre-	feet.		li de la companya de	1		
	1878-79	1879-80	1880-81	1881-82	1882-83	1883.84	1884-85	1885-86	1886-87	1887-88	1888-89	1889-90	1890-91	1891-92	1892-93	1893-94	1894-95	1895-96	1896-97	1897-98	1898-99
Petober	5.52	6.76				5.58	8.18	7.50	5.28	7.01		-0					8.18	policy Trans		5.97	
November	4,97	5.08					8.03	6.13		5.95									7.26		
December	5.60							6.33		6.10								4.63	10,00	8.67	4.21
Jamesy	4,05					1442		6,21	6,09	4.93		1 1			4.78	8.92	6.27	5,55	7.07		
Gebruary	4.84						9.11	9.89		8,28	3.54						5,27				
March	15.10					6.46	11.60	7.50	COMPANY OF THE PROPERTY OF THE PARTY OF THE	7.38			4,53	7.81	4,37	10.00	7.32				
april	21.40						15.40	12,40		11.20			8,15					Harman and the second second second			
May	24.30						22,90	21,00	25.90	22,30	15.60										19.00
gue	36.40			0 45.80	31.80	38.60	26.50	34.30	48.10	30.60	15,90		- A				22,70				
guly	30.80	48.80	26.50	0 29.30	24.40	24,80	20,90	21,60	36.00	20,80	11,30	20,00	18.80				21.40				
Elignet	16.90						12,50	12.40		13.10											
September	9.16	11.80	8.3	9 8.93	7,50	9.88	9,22	7.44	10,20	9.10	5,74	7.20	7.86	8,63	8.93	10,40	7.68	9.34	8,15	0,01	11,50
awwal	175.04	191.78	1826	8 167.66	153.54	155,44	155.04	152.70	188.53	146.75	96.89	141.90	119.85	143.70	158.68	224.80	140,47	166.30	175.55	166.92	170,40
																	10 90	10.70	1990	1200	11 42
april	21.40	1 In				12.10	15.40	12.40		11.20											
May	24.30			100		24.80		21.00		22,30											
June	36,40					38.60	26,50	34,30		30.60			0.0								
guly	30,80	48.80	0 26.5	0 29.30	24.40	24.80	20,90	21,60	36.00	20,80	//,30	20.00	18.80	27.50							
Period	112.90	124.0	8 108.2	0 109.40	92.70	100.30	85.70	89.30	125.40	84.90	51.84	91.80	72.95	87.30	101.30	146.30	78.00	106.90	1/1.20	98.20	106,20
													Per	centage	Relati	on ships					
												集,									
Aurea	e Harris																				
6 0																					
Up July																					
, , ,																					
			SEREE																		
				RESERVED TO					EREGES:		36935							A RESIDENCE PROPERTY.			

1900-01	1901-02	1902-03	1903-04	1904-05	1905-06	1906-07	1907-68	1908-09	1909-10	1910-11	1911-12	1912-13	1913-14	1914-15	1915-16	1916-17	1917-18	1918-19	1919-20	1920-71
7.01	5.28	5.14	9.53	5,21	6.33	5.64				6.27							TOTAL PROPERTY.			
7.44		the state of the s	7.91	4.32		8.09	5,24	5,24		7.20					4.75 5.02				4.43	
8.48			7.50	4,41	4.14	7.56	5,43		8.67	6.95			5.08		5.26				3.93	
7.93				4.09		6,46	4.62		6.64	4.86					4.35		1		4,84	
6.78	5,61	4.87		3.49		8.78	3.81	5,72		4.40	4 章				7.65	the state of the s			4,42	7.16
11:50		9.7		6.52		10.30	7.13	6.64	16.70	6.40					12,20				4.79	11.90
9.82				7.80		13.90	10,90	8,93		9.16	The state of the s	13.60			15,90				7.02	13,00
26,40				12.70		23.30	21.20			18.80				15.60	1 24,00					27.70
20,90				21.20		31.70	32,00	35,20		29.90							28.30		21,50	39.30
13.50	Man that the man had been been been been been been been bee	THE RESIDENCE OF THE PERSON.		15.10		26,50	25,40			23.20					36.80				23.10	21,30
7.85		0 0		5.68		14.10	12,50	12.50	9.84	11.50					15.90				13.20	11.20
1100	117	0.01	1.20	2.00	0.07	9.64	7,20	7.68	5.55	7.14	7.68	8.39	6.49	7,26	9.28	7.32	7.20	6.49	7.14	6,43
158,31	142.91	152.82	175.67	101,32	113,54	165,97	142,56	138.96	154.06	135.78	132,88	154.18	135,41	106.34	172,81	150,90	148,27	124.49	113.87	166,48
282	8.51	11140	2010	70	1210	1200	1000	Go?												
9.82 26.40						13.90	10,90	8,93		9.16	10,80				15.90			12.70	7.02	13,00
30.70				12.70		23.30	21,20	14.20	30.30	18.80			23.10		24.00				15,50	27.70
20.90				21,20		26.50	32,00	35.20		29.90				15.80	31.70				21.50	39,30
20.70	20,00	28,20	24.10	15.10	17.10	20,50	25,40	25.90	14.60	23.20	18.80	24.10	19.40	13.80	36,80	29,40	20.80	17.50	23,10	25.30
87.82	87.51	97.20	109.00	56,80	67.40	95,40	89,50	84.23	87.70	81,06	83,60	102,10	80,70	55,14	108.40	103,10	82.70	74.90	67.12	101.30
1111			115.8	66.8	74.8	109.4	94.0	91.60	101.55	89.50	87.59	101.63	89.26	70.09	113.91	99.47	97.72	82.06	74.96	109.74
			1170	6 . 21					911 91	9011	9.1		V- 0	F-13						
			11.9	61.4	12.9	103,2	96.8	91.1	17.00	0 1.66	70.42	110.42	0 1,28	29.63	117.24	111.51	89.44	81.01	72.59	109,56
		SESSES SE																		
					THE REAL STREET															
						Maria Bara														

Total		Mormal (43 yrs)	Ber Cent andual
273.74		6,370,000	4,20
253,66	4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	5,900,000	3,89
255,42		5,940,000	3,92
249.19		5,800,000	
245.79		5,720,000	
345,59		8,040,000	5,30
541.85		12,600,000	
995,30		23,200,000	
1378,50		32,060,000	21,13
1059.20	9 2 4 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	24,600,000	16,22
577.00		13,400,000	8.83
348,48		8,100,000	5.34
		3,700,500	
6523.72		151,710,000	100,00
		12,600,000	
		23,200,000	
		32,060,000	
		24.600,000	
3975,85		92,460,000	60.95
			SPECIE ALBERT

Columbia River at the Salles

				Clark 2	fork (Co	lumbia /	liver) at	Newfort	T. Wash	6									Metaline Talle	
				Corrected	for no	tural si	lorage i	w Laste	pend of	nelle								Out ag	modent & New par	01.5
	1903-04	1904-05	1905.06	1906-07	-	1968-09 a	-	1910-11	1911-12	1912-13	1913-14	1914-15	19.5.16	19.6-17	19.7-18	1918-19	1919-20	1930-21 192	1-22 Normal	Normal
Oct	965	529	616	J-33	847	0	654	635	615	816	700	812	696	875	588	621	329	864	649	3.38
nov	925	510	262	1,160	722	725	1,147	1,141	581	1,014	826	1,271	695	728	V26	607	400	797	796	3,37
de	986	487	510	1,960		0	1,365	1,017	V06	879	639	848	710	620	867	V87	321	809	646	3.59
gan	734	475	477	1,000	607	V83	vv	V39	621	631	tra	501	424 2V	V26	2085	612	488.	881	613	3,19
Feb	601	393	508	833	539				V24		978	709	1729	526	1,045	791	545	1,352	932	4.86
	679	684	588	1,080	794	790	2,181	811	727	756			2700	1418	2168	1,686	864	1,926	1809	9.43
Thor	879		1,355	2,034	1,849	1,179	3,195	1,450	1,692	2,104	1980	1,490		1	4240	3,610	3,319	4,741	3721	19,40
agri	2,621	842	1,010			2,522	4.534	3,440	4,082	4,197	3,831	2445	4256	4221	, , ,	3,711	4330	5.851	4700	24,79
way	4,930	1,558	2,490	4,207	4,029				4,826	7631	3,391	2,463	1907	6,782	2020		2,647	2,306	268V	14,00
	4,623	2,880	2,439	V4.54	6,582	6,061	3,192	4,428		'	1,939	1,980	6217	4,171	2,358	1,3 1		931	1174	6.12
June	116		1,443	3,910	2,854	3,300	1,506	2,644	2488	3,323			2068	1334	1,086	644	1,040		710	3.70
July	2,469	1,454	(, + ) -		1,159	1,331	808	1143	1252	1,409	874	1,173		200	594	449	7/3	.510		J
ang	980	681	720	2,505	"1" 7			,	930	798	593	706	1,270	709						67.6.24
	619	vor	561	1,020	677	7,36	593	742	100	//0										
Sepit	611					/		,				,		1	- 9	1-7-6	15.403	21,848	19,180	100,0
Year	21,332	10,995 V	12,266	24.806	21,489	17,767	20,629	18,695	18.691	24,193	17,083	15,005	27,427	22754	21,508	15,326	and the same of th		4=	
7											262					. =1	TLV	1,926		
agri	2,621	8+2	1,355	2,034	1,849	1,179	3,195	1,450	1,692	2,104	1980		4,20-6			1,686	3,319	4,741		
may	4930	1.558	2,490	4,207	4,029	2,522	4,534	3,440	4,082	4,197	3,835	2,445	5,907	6,782	4,240	3,711	4,330	V.8V1		
				5,454	6,582	6,061	3172	4,428	4,826	7,635	3,391	2,463			2,358	1,31	2,657	2,306		
June	4,623	2,000		2			1,506	2,644	2,488	3,323	1,939	1,980	"," /	7, 171						
July				3,910												25 2	11 170	,4824	12-070	67.62
ger-guly	14,643	6734	7.7.29	15,605	15,314	13,062	12,407	11962	13,088	17,259	11,145	8,378	19,080	16906	13,816	10322	11,170	14004	12970	67.62
							THE RESERVE AND ADDRESS OF THE PARTY OF THE		Rerce	Mage R	elationsky 89.07	28-3	143.00	118.11	112,14	79.91	80.31	113.91	92.7	
year oil	111.22	57.33	60.4	129.33					97.45	126.14	89.07	78.23		130.34	106.52	79.58	86.13	114,29	99.5	
an July	114,0	52.1	1	122.0	119.7	102.1	95.66	92.23	100.91	133.07	85.93	67.39	147.11	120.24	1.00	11.00	THE REAL PROPERTY.			

second-feet

				D. D. D.	Name of the last o		A STATE OF THE STA	BANK BURNES CONTRACTOR	# #				
	1915-16	1916-17 1	1917-18 1918	8-19 1919-20	1920-21	1921-22	Totals 6 yrs.						
October	20,700			25,400 16,500			142,200			BE THEFT	BEEFER EXSEE		
November				27,000 22,100		29,600	160,700					A MINERAL SE	BEEF
December	27,100	25,200		22,200 24,400		39,300	192,000						
January	26,500	23,000		24,400 30,500		25,600	219,900						
February	50,500	25,600		26,000 29,200		25,800	223,200						
March	86,200	29,400		11,900 35,800		39,500	334,800					A SHARE SE	
April	109,000	97,400	84,900 9	76,800 56,400	The state of the s	81,400	548,100						
May	128,000	177,000	111,000 11	14,000 108,000	191,000	156,000	828,000						
June	157,000	201,000	145,000 3	59,300 114,000	179,000	164,000	855,300						
July	92,900	93,900	41,700 1	18,100 39,900	43,500	34,900	3 2 9,0 00					A RIVER OF STREET	
August	26,400	22,200	11,900 1	12,000 15,900	19,700	18,600	116,100						
September	21,000	18,500	1',400 1	11,800 17,500	18,900	15,600	105,100						
Annual	769,200	765,200	705,400 47	78,900 510,200	825,500	652,500	4,054,400						
April		GREEK SEE											
May							PEGETS BEEFE SERVICE					A BUTTO STA	
JUME													
July													
Period	486,900	569.300	385,600 28	88,200 318,300	512.100	436.300	2,5 60,400						
		MERINE S	-				BEENEL COTECHE SECTION						
The state of													
		MICHEL ES ES											
					0 245 38 4 5 5		THE COLUMN TWO DAYS ASSESSED TO SEE THE COLUMN TWO COLUMN TO SEE THE COLUMN TWO COLUMN T						
									5.				
The Little States													

Snake River at Riparia, Wash.

\_ Ripania Station april-July -0,5 +17.2 -2,3 11.5 -17.9 9.6 27.4 + 38.3 -57.0

+ 23.6 -45.7 23.6

+ 13.9

9.7

6 -18.7

38.3

Snake River at Riparia, Wash. .00% in Aerett. normals (? 54,35690 Apr. - July 8 4, 8 5 3 . 4 4 84,82295 Period 33.715.72 257,749.01% 20.659.76 15,93696 54,356.90 8 4. 8 2 2 . 9 5 Year 10,423.32 14,572.66 19,676.16 22,535.35 34,310.30 8 4, 8 5 3 . 4 4 33,715.72 11,897.93 40,7,76,1.45\*

## Snake River at Riparia, Wash.

Totalsof					.0	0	-16
Periods		1	2	8	0.0	0	
. 1915-16			9	2	0.00	0	14
					.9		45.
1916-17		1	7	7	0.00	0	
		5	6	9	.3	0	10
1917-18		111	14	0 5	9.00.07	00	
		3	8	5	.6	0	35
1918-19		1	1.5	49	8031	00	
		2	8	8	.2	0	**
1919-20		1	01	84	4000	00	
		3	1	8.	.3	0	**
1920-21		1	97	19	60.0.5	00	
		5	1	2	1	0	*
1921-22		11	563	644	4009	000	
		4	3	6	.3	0	**
Total		8 8	25	8 5	10.30	00	
7	2,5	5	6	0	.4	0	-36-
4,706,900		7745	6071	5580	2249255	0000	1
	4, "						36
	Till ca	LLOSSIBBLL	69123425210	02934885965	27.09.281.03.011	0000000000	
	4, (	)	5	4.	4	0.	96
					0,	0.	36
2,996,700 436,300 2,560,400	A Caramatata	5	6881	9.5.8.	9362313	0000	
	20	-	0	6	7	2	-

2,996.70 #

Divisor	Dividend	avotient		Divisor	Dividend	Quotient
6	142,200	23,700 00t 26,783 Nov	30	.9632	675,733	701, 550 coverted normal
	192,000	32,000 Dec		701,550	769,200	109.6%
Megns.	334,800	37,200 Feb. 55,800 Mar. 91,350 Apr.		Annual	705,400	100.5
in Second-feet	548,100	138,000 May		111011041	510200	72.7
36601144 661	3 29,000	54,833 July			852,500	93.0
	105,100	18,517 Sept		,9688	426,733	corrected from
	4,054,400	675,733	**	440,476	569,300	129.2
4,054,400	142,200	3.51%		Period	385,600	87.5
Per Cent	219,900	5:42	,		318,300	72.3
Total of	223,200	8.26		-	436,300	99.1
year	548,000	13.52 20.42 21.10				
	329,000	8.11				
	105,100	2,59	t			
Mult	Mult.	Prod.				
1.98397	28	55.537 59.504				
	31	61.488				
55,537	37,200	2,085,9761				
59,504	26,783	5,435,690	Nov. Apr.			
acrest.	142,550	8,482,295	lune lept.			
11120	17,517		Pat.	_		
61,488	32000	1,967,616	Dec.			
acrest,	38,650		Marc.	h		The same
	138,000	8,485,344	May			
	19,350	1,189,793	Aug.			

SNAKE RIVER	near BURBANK	, WASHINGTON
(Drainage	e Area 108,600 Sq. Mi.	)

					(Drainage Area 108, 600 Sq. Mi.)	The state of the s
	1909-10 1910	-11 1911-12	1912-13 1913-14 1914-15	1915-16 1916-17	Total	Mean Percent of Total for year
October	1,730,000 1,41	0,000 1,620,00	1,850,000 1,810,000 1,890,000	1,300,000 1,720,000	11,610,000	
A /			2,010,000 1,920,000 2,040,000		14,130,000	
			1,430,000 1,520,000 1,440,000		12,400,000	
			1,500,000 2,020,000 1,460,000		12,800,000	
-			1,600,000 1,850,000 1,580,000		14,830,000	
			2,760,000 4,000,000 2,130,000		39,530,000	
	THE REAL PROPERTY AND PERSONS ASSESSED FOR PARTY AND PARTY.	CONTRACTOR DESCRIPTION OF THE PROPERTY OF THE	7,3 8 0,000 5,5 3 0,000 3,3 6 0,000		43,130,000	
			10,200,000 7,990,000 4,570,000		59,6 40,000	
			11,200,000 5,750,000 3,830,000		3,630,000	
The state of the s			3,780,000 1,990,000 1,860,000		22,730,000	
August			1,5 50,000 861,000 1,030,000		8,746,000	
September			1,140,000 1,020,000 857,000		8,043,000	
Annual	49,000,000 42,20	0,000 49,1 00,000	46,400,000 36,300,000 26,000,000	48,500,000	297,500,000	
April						
May						
June			MENAL COMPENSOR OF SERVICE			
July						
Period A	25,7 8 0,000 26,9 9	0,000 33,3 10,000	32,560,000 21,260,000 13,620,000	20,810,000	184,33 0,000	
	THE PARK SOLVE IN					
		SE CHEL				
	THE RESIDENCE OF STREET					
		THE PERSON NAMED IN				
	THE BUILDING THE STATE OF			COLUMN COMERT SEEDS	日本 (A)	

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Snake River at Burbank, Wash. Correction for Karmals

1909-10 + 1.6 -10.5 +10.4 -5.1 -12.4 1.6 1910-11 + 17.2 12.3 -10.7 13.9 9.6 -29.9 12.7 -63.5 +17.1 40 .4 1913-14 +27.6 -80.1 = -46.4 = 6.63% 1914-15 = -52.5 1915-16

Factor of Convection based an % a at The Deller is. account + 6.6% apr. July + 7.5% i.e. divide apparent named or mean for 1909-16 by .934 for annual and by .925 for apr. July.

Divisor	Dividend	Quotient	Divisor	Dividend	Quetient Corr. Mean
7	11,610,000	2,018,571	.925	26,332,857	28,467,954
	1,400,000	1,771,429	28,467,954	25,780,000	90.6
	12,800,000	2,118,571	011	33,310,000	117.0
Means	30,530,000	4,361,429	Period	21,280,000	74.7
	59,640,000	8,526,000		3.0,810,000	108,2
THE WASHINGTON	22,930,000	3,275,714	1 to 10 to 1	50,017	
	8,746,000	1,249,429			
	297,500,000	42,500,000			
297,500,000	11,610,000	26,332,857			
- 17/3 00,00	14,130,000	4.75			
Dog	12,800,000	4.30		** *** *** *** *** *** *** *** *** ***	
Percent	30,530,000	10.26)			
year	43,130,000	14.50 \ me	64.52%		
	58,630,000	19.71			
	22, 93 a, 000 8, 746, 000 8, 043, 000	2.94			
	8,043,00	94.97	Snake River at Burbank, Wash.		
,9337	42,500,000	Corr. Mean 45,517,832			
45,517,832	49,000,000	107.7			
	49,100,000	107.9	Cor	r. Means 5,517,832	Annual
Amnual	46,400,000	101.9	28	, 467, 954	Period
	36,300,000	79.7 57.1	~ 0		
	48,500,000	108.6			
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And the second					