12462600 COLUMBIA RIVER BELOW ROCK ISLAND DAM, WA

LOCATION.--Lat 47°19'57", long 120°04'48", in NE 1/4 NW 1/4 sec.9, T.21 N., R.22 E., Douglas County, Hydrologic Unit 17020010, on left bank 1.0 mi downstream from Rock Island Dam, 2.0 mi downstream from Rock Island Creek, 12 mi southeast of Wenatchee, and at mile 452.4.

DRAINAGE AREA.--89,400 mi^2, approximately.

PERIOD OF RECORD.--January to December 1910 (gage heights only), May 1913 to December 1916, October 1930 to current year. Published as "at Wenatchee" January 1910 to December 1916, and as "at Trinidad" October 1930 to May 1961.

GAGE.--Daily discharge determined from flow through turbines plus spillway flow when present. Datum of gage is sea level. Prior to Jan. 1, 1916, nonrecording gage 1.2 mi upstream from highway bridge at Wenatchee, at mile 466.3, at datum 583 ft above sea level. Jan. 1 to Dec. 31, 1916, nonrecording gage on pier of highway bridge at Wenatchee, at mile 465.1, at datum 579.30 ft above sea level. Oct. 1, 1930, to May 31, 1961, water-stage recorder 0.5 mi southwest of Trinidad, at mile 441.7, at datum 499.3 ft above sea level (river-profile survey). June 1, 1961, to July 22, 1988, water-stage recorder at present site and datum; May 21, 1963, to July 22, 1988, auxiliary water-stage recorder 2.0 mi downstream at same datum.

REMARKS.--Flow regulated by numerous reservoirs. Feeder Canal diversion (station 12435500) for Columbia Basin project is used to irrigate approximately 600,000 acres in the United States. An additional 66,500 acres in Canada are irrigated by other diversions.

COOPERATION.--Discharge records provided by Public Utility District No. 1 of Chelan County at Rock Island Dam through the Corps of Engineers, North Pacific Division, Reservoir Control Center. The U.S. Geological Survey made 6 discharge measurements at this site during the year.

AVERAGE DISCHARGE.--74 years (water years 1914-16, 1931-2001), 119,400 ft^3/s, 86,510,000 acre-ft/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 692,600 ft^3/s June 12, 1948, gage height, 59.35 ft, site and datum then in use; minimum discharge, 4,120 ft^3/s Feb. 10, 1932, gage height, 11.40 ft, site and datum then in use.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 7, 1894, reached a discharge of about 740,000 ft^3/s, from floodmarks at Wenatchee.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 130,000 ft^3/s Dec. 28; minimum daily discharge, 29,700 ft^3/s July 29.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	59700	90700	116000	60600	62500	113000	37700	65600	84200	71700	53400	49600
2	92400	103000	87700	124000	64300	96400	62700	64200	68300	94600	62900	52300
3	75000	90700	76000	126000	61300	77400	65500	64400	67100	88800	52200	68100
4	70700	70200	108000	109000	64200	66200	70100	67200	95800	47200	38900	86600
5	63400	78500	120000	111000	91500	86400	61300	59500	89600	64500	45000	78200
6	69200	95100	120000	107000	98400	97100	65000	38100	93100	54800	81900	45900
7	46000	109000	127000	112000	104000	89400	62800	66400	118000	48400	93400	55000
8	54100	104000	127000	123000	116000	95300	56800	64100	112000	48700	73100	46000
9	79700	96600	98000	126000	103000	87400	65500	78600	80400	71200	62800	41000
10	90000	88300	101000	113000	94900	61000	82400	75800	63500	41800	79900	79400
11	98300	77800	119000	110000	66900	53500	96900	63900	109000	40400	52200	92500
12	76900	72200	122000	98000	108000	87300	80800	33800	88900	54200	54600	79100
13	72500	121000	129000	87600	111000	96600	73300	39000	82600	64600	84300	73800
14	57000	111000	130000	75100	102000	87900	61800	59600	84600	52400	78800	57800
15	61800	104000	115000	97400	95400	88200	35200	43000	105000	34400	79800	38000
16	74200	105000	92500	111000	92900	77800	64200	45200	75300	62600	76200	41300
17	78600	110000	88300	107000	80200	51000	75700	50400	57300	55800	82900	55200
18	78400	80100	119000	96500	37000	41000	66600	40300	96700	56400	62900	64500
19	95900	89200	119000	88000	65100	86500	63400	43900	102000	63000	55900	72300
20	70600	99700	122000	83800	83600	77000	71400	37200	111000	55600	64600	80400
21	43400	96000	116000	86100	92000	91000	43700	76700	112000	33000	57500	73400
22	66800	109000	105000	93300	118000	60200	44600	88100	101000	49700	62000	53700
23	82900	87600	81700	88000	118000	53800	69100	82600	71000	65200	68600	53600
24	83400	76400	58200	94100	82400	58300	77400	87800	46900	44600	75600	78400
25	80400	79500	66000	99000	99400	37200	68300	80800	95600	65600	70900	75500
26	77000	84800	98900	99900	117000	71700	71400	51100	90500	53300	61400	64400
27	78500	96600	118000	77200	108000	81800	63200	47800	99300	46400	96500	67600
28	70800	110000	130000	67800	108000	70800	44500	45700	93500	42800	98800	64500
29	68500	116000	120000	92600	---	60300	47900	78600	91000	29700	84800	55900
30	98900	111000	99500	89000	---	68800	70200	89000	84800	49300	80700	57100
31	96600	---	77300	78600	---	55000	---	97300	---	54900	75800	---
TOTAL	2311600	2863000	3307100	3031600	2545000	2325300	1919400	1925700	2670000	1705600	2168300	1901100
MEAN	74570	95430	106700	97790	90890	75010	63980	62120	89000	55020	69950	63370
MAX	98900	121000	130000	126000	118000	113000	96900	97300	118000	94600	98800	92500
MIN	43400	70200	58200	60600	37000	37200	35200	33800	46900	29700	38900	38000
AC-FT	4585000	5679000	6560000	6013000	5048000	4612000	3807000	3820000	5296000	3383000	4301000	3771000

CAL YR 2000 TOTAL 42946800 MEAN 117300 MAX 221000 MIN 43400 AC-FT 85180000
WTR YR 2001 TOTAL 28673700 MEAN 78560 MAX 130000 MIN 29700 AC-FT 56870000