09-5220.00 COLORADO RIVER AT NORTHERLY INTERNATIONAL BOUNDARY - DISCHARGES

DESCRIPTION: Water-stage recorder on the left (Arizona) bank and cableway at the point where the northerly international land boundary (California-Baja California) intersects the Colorado River, about 10.3 kilometers downstream from Colorado River below Yuma Main Canal Wasteway, 8.0 kilometers west of Yuma, Arizona, 1.8 kilometers upstream from Morelos Diversion Structure, and about 1.6 kilometers downstream from Rockwood Gate. Zero of the gage is at mean sea level, U. S. C. & G. S. datum. On May 1, 1988, the gage was relocated 52 meters upstream of the old gage on the left bank. Zero of the new gage is at mean sea level, U. S. C. & G. S. datum. Elevation of the new gage is equal to that of the old gage. Station is operated by the United States Section of the Commission.

RECORDS: Based on 185 current meter measurements during the year, 121 by the United States Section, 62 by the Mexican Section of the Commission, 2 by the U. S. Geological Survey, and a continuous record of gage heights. Discharges are computed on the basis of a water-stage recorder 512 meters upstream from the northerly international boundary where the remains of an old weir serve as a partial controlling section. A continuous gage height record is available November 15, 1948 through 2001; daily discharge records available January 1, 1950 through 2001.

REMARKS: Reservoirs on the Colorado River, including Lake Mead above Hoover Dam, where storage began in 1935, reservoirs on the Gila River, and many irrigation diversions and return flows regulate the river flow at this station except for infrequent flood flows. During 2001 the flow at this point represented the total amount of the Colorado River water which crossed the northerly international boundary.

EXTREMES: Prior to January 1935: Maximum instantaneous discharge estimated about 7,080 CMS, January 22, 1916; minimum discharge, no flow several days during August and September 1934; average annual flow 16,581,806 TCM; maximum annual flow 31,429,325 TCM, 1907; minimum annual flow 1,448,117 TCM, 1934. Since January 1935: Maximum instantaneous discharge 1,150 CMS on August 20, 1983, minimum discharge, no flow during April 1935.

MEAN DAILY DISCHARGE IN CUBIC METERS PER SECOND 2001 --- ANNUAL AND PERIOD SUMMARY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	84.8	* 73.0	204 *	90.5	* 57.9	* 51.8	55.3	53.2	40.6	* 34.5	31.2	45.5
2	* 67.5	76.6	160 *	* 91.9	57.3	50.3	* 66.6	* 55.3	40.6	* 34.0	32.2	46.3
3	73.1	69.9	102	* 92.3	57.8	50.3	* 57.6	* 49.8	41.8	33.2	35.1	49.7
4	* 67.5	69.7	83.9	92.2	* 54.2	* 50.5	* 58.3	52.7	* 41.9	* 35.1	35.2	52.1
5	* 60.6	* 73.9	* 88.0	* 93.1	47.5	* 50.5	58.4	50.8	41.1	34.7	35.2	51.7
6	58.4	* 70.7	* 87.7	91.7	46.1	50.8	* 58.1	* 68.7	* 40.9	31.9	37.3	52.3
7	58.2	71.9	114	92.3	* 47.4	* 50.6	61.0	* 61.6	41.6	29.6	37.0	51.6
8	* 56.8	* 70.9	125 *	97.0	* 50.5	* 50.2	58.7	50.0	41.5	28.4	36.5	52.2
9	* 55.8	* 72.1	178 *	* 94.4	38.4	51.9	* 79.1	* 58.7	38.7	* 29.5	36.2	51.9
10	* 59.8	72.2	133	* 91.0	* 38.5	51.1	104 *	* 45.6	* 39.1	32.2	36.1	52.8
11	* 88.9	75.9	125	88.2	38.8	* 53.2	93.3	50.1	* 38.3	* 38.5	41.2	52.4
12	* 85.9	* 77.7	* 95.2	* 88.9	36.7	* 53.2	* 73.0	58.6	48.0	32.9	42.7	52.6
13	104	88.8	* 88.4	89.9	35.1	53.4	* 63.2	* 57.6	* 46.8	28.5	39.1	53.0
14	93.0	100	86.7	96.9	* 39.3	* 53.4	61.7	* 58.4	55.9	28.2	40.7	53.5
15	61.5	* 79.2	* 88.3	114	39.0	53.5	56.8	55.9	65.4	* 28.2	38.5	52.4
16	* 56.4	* 78.4	* 88.9	123 *	37.9	53.4	* 55.2	* 40.8	42.6	* 27.4	39.8	51.0
17	* 63.6	78.3	87.7	* 92.3	* 36.9	53.8	* 54.0	46.0	* 46.3	28.1	39.4	51.1
18	* 76.8	78.1	101	* 86.4	39.3	* 56.7	55.0	52.2	* 40.9	* 28.5	39.3	50.8
19	* 93.3	87.9	* 99.2	* 87.6	39.2	* 56.5	* 54.5	42.8	38.6	* 27.4	40.3	50.3
20	66.1	* 98.1	* 94.8	87.7	39.3	56.5	* 52.8	* 46.7	* 39.9	29.4	38.8	50.4
21	65.4	97.7	95.8	89.3	* 52.7	* 56.7	53.3	* 42.5	* 39.5	39.8	41.7	51.3
22	* 65.3	103 *	* 94.8	104	57.0	55.9	52.8	46.6	38.6	* 43.8	42.3	50.5
23	* 66.7	101	* 94.1	102 *	49.7	56.0	* 53.2	* 42.4	41.2	* 37.1	43.1	53.4
24	69.3	96.9	92.3	* 93.9	* 45.3	55.7	* 56.5	38.9	* 67.3	* 48.5	46.7	64.8
25	* 68.9	85.9	93.0	* 80.2	* 42.7	* 54.8	64.9	38.6	* 47.7	* 43.4	47.8	55.3
26	* 72.7	129	113 *	* 71.8	41.0	* 54.9	* 72.7	38.3	56.2	31.4	44.0	49.3
27	86.0	190 *	104	* 69.3	42.7	55.6	* 52.5	* 38.4	* 49.9	30.2	50.3	50.0
28	78.5	242 *	107	69.3	53.1	* 55.6	53.5	* 38.6	* 38.6	30.3	46.0	43.4
29	* 70.1		* 95.2	66.1	* 47.4	* 54.9	58.7	38.7	38.2	* 37.3	42.3	42.9
30	72.5		* 94.2	* 68.4	46.6	53.8	* 51.9	* 42.3	38.6	27.2	48.6	43.9
31	75.0		97.3		* 49.2		* 51.4	38.0		24.2		45.8
Sum	2,222.4	2,608.8	3,311.5	2,695.6	1,404.5	1,605.5	1,898.0	1,498.8	1,326.3	1,013.4	1,204.6	1,574.2

	Current Year 2001								Period 1935-2001		
	Extreme Gage Meters		Extreme-Cubic Meters per Second					Volume-Thousand Cubic Meters			
Month	High	Low	High Day	Low Day	Average	Total	Average	Maximum	Minimum
Jan.	33.170	31.955	!18	122	16	50.5	71.7	192,015	488,198	2,027,841	39,348
Feb.	32.945	32.045	28	276	1	68.1	93.2	225,400	419,456	1,705,506	74,502
Mar.	32.900	32.150	1	247	4	80.7	107	286,114	449,715	1,642,378	23,930
April	32.465	32.035	23	146	26	64.0	89.9	232,900	370,251	1,322,616	0
May	32.070	31.730	1	67.5	9	30.0	45.3	121,349	350,714	1,419,735	88,077
June	31.970	31.780	19	58.8	1	35.0	53.5	138,715	349,843	1,629,906	10,485
July	32.300	31.875	10	108	28	47.8	61.2	163,987	371,940	2,303,937	30,097
Aug.	32.055	31.740	6	77.6	31	36.5	48.3	129,496	379,862	2,485,718	54,026
Sept.	32.050	31.740	24	77.1	19	36.3	44.2	114,592	338,265	2,286,076	66,424
Oct.	31.940	31.650	24	56.6	31	23.2	32.7	87,558	327,192	2,417,702	52,985
Nov.	32.050	31.715	27	56.1	1	26.7	40.2	104,077	361,721	1,889,976	51,070
Dec.	32.270	31.865	24	75.4	!28	41.7	50.8	136,011	455,118	2,259,735	51,806
Yearly	33.170	31.650		276		23.2	61.3	1,932,214	4,662,275	19,033,104	890,696

! And other days