

DISCHARGE RATING TABLE NO.1 of 7-23-1958 (1/2)

Station Banugao Effective from _____ to _____River System Agos Name of Stream Agos Drainage Area in km² 911

G.H.	.00	.01	.02	.03	.04	.05	.06	.07	.08	.09
1.60					1.25	1.65	2.05	2.45	2.50	3.25
1.70	3.95	4.65	5.35	6.05	6.75	7.45	8.15	8.85	9.55	10.25
1.80	10.95	11.65	12.35	13.05	13.75	14.45	15.20	15.95	16.70	17.45
1.90	18.20	19.06	19.92	20.78	21.64	22.50	23.56	24.62	25.68	26.74
2.00	27.80	28.92	30.04	31.16	32.28	33.40	34.82	36.24	37.66	39.08
2.10	40.50	42.21	43.92	45.63	47.34	49.05	50.76	52.47	54.18	55.89
2.20	57.60	59.56	61.52	63.48	65.44	67.40	69.36	71.32	73.28	75.24
2.30	77.20	79.38	81.56	83.74	85.92	88.10	90.28	92.46	94.64	96.82
2.40	99.00	101.40	103.80	106.20	108.60	111.00	113.40	115.80	118.20	120.60
2.50	123.00	125.54	128.08	130.62	133.16	135.70	138.24	140.78	143.32	145.86
2.60	148.40	151.06	153.72	156.38	158.04	161.70	164.36	167.02	169.68	172.34
2.70	175.00	177.80	180.60	183.40	186.25	198.00	191.80	194.60	197.40	200.20
2.80	203.00	205.82	208.64	211.46	214.28	217.10	219.92	222.74	225.56	228.38
2.90	231.20	234.03	236.96	239.84	242.72	245.60	248.48	251.36	254.24	257.12
3.00	260.00	263.50	267.00	270.50	274.00	277.50	281.00	284.60	288.00	291.50
3.10	295.00	298.70	302.40	306.10	309.80	313.60	317.20	320.90	324.60	328.30
3.20	332.00	335.80	339.60	343.40	347.20	351.00	354.80	358.60	362.40	366.20
3.30	370.00	374.20	378.40	382.60	386.80	391.00	395.20	399.40	403.60	407.80
3.40	412.00	416.00	420.80	425.20	429.60	434.00	438.40	442.80	447.20	451.60
3.50	456.00	460.50	465.00	469.50	474.00	478.50	483.00	487.60	492.00	496.50
3.60	501.00	505.70	510.40	515.10	519.80	524.60	529.20	533.90	538.60	543.30
3.70	548.00	553.00	558.00	563.00	568.00	573.00	578.00	583.00	588.00	593.00
3.80	598.00	603.20	608.40	613.60	618.80	624.00	629.20	634.40	639.60	644.80
3.90	650.00	655.20	660.40	665.60	670.80	676.00	681.20	686.40	691.60	696.80
4.00	702.00	707.20	712.40	717.60	722.80	728.00	733.20	738.40	743.60	748.80
4.10	754.00	759.30	764.60	769.80	775.20	780.50	785.80	791.10	796.40	801.70
4.20	807.00	812.50	818.00	823.60	829.00	834.50	840.00	845.50	851.00	856.50
4.30	862.00	867.60	873.20	878.80	884.40	890.00	895.60	901.20	906.80	912.40
4.40	918.00	923.80	929.60	935.40	941.20	947.00	952.80	958.60	964.40	970.20
4.50	976.00	982.20	988.40	994.60	1000.70	1013.12	1019.40	1019.40	1025.60	1031.80
4.60	1038.00	1044.30	1050.60	1056.90	1063.20	1069.50	1075.80	1082.10	1088.40	1094.70
4.70	1101.00	1107.30	1113.60	1119.60	1126.20	1132.50	1138.80	1145.10	1151.40	1157.70
4.80	1164.00	1170.60	1177.20	1183.80	1190.40	1197.00	1203.60	1210.20	1216.80	1223.40
4.90	1230.0	1237.0	1244.0	1251.0	1258.0	1265.0	1272.0	1279.0	1286.0	1293.0
5.00	1300.0	1307.3	1314.6	1321.9	1329.2	1336.5	1343.8	1351.1	1358.4	1365.7
5.10	1373.0	1380.7	1388.4	1396.1	1402.8	1411.5	1419.2	1426.9	1434.6	1442.3
5.20	1450.0	1458.0	1466.0	1474.0	1482.0	1490.0	1498.0	1506.0	1514.0	1522.0

Gauge Height in m, Discharge in m³ secZero point of staff gauge: El. 5.043 m

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DISCHARGE RATING TABLE NO.1 of 7-24-1958 (1/2)

Station Banugao Effective from _____ to _____

River System	Agos		Name of Stream	Agos		Drainage Area in km ²		911		
	G.H.									
	.00	.01	.02	.03	.04	.05	.06	.07	.08	.09
1.60	5.00	5.50	6.00	6.50	7.00	7.50	8.10	8.70	9.30	9.90
1.70	10.50	11.20	11.90	12.60	13.30	14.40	14.80	15.60	16.40	17.20
1.80	18.00	18.90	19.80	20.70	21.60	22.50	23.50	24.50	25.50	26.50
1.90	27.50	28.80	30.10	31.40	32.70	34.00	35.60	37.20	38.80	40.40
2.00	42.00	43.78	45.56	47.34	49.12	50.90	52.68	54.46	56.24	58.02
2.10	59.80	61.82	63.84	65.86	67.88	69.90	71.92	73.94	75.96	77.98
2.20	80.00	82.30	84.60	86.90	89.20	91.50	93.80	96.10	98.40	100.70
2.30	103.00	105.45	107.90	110.35	112.80	115.25	117.70	120.15	122.60	125.05
2.40	127.50	130.10	132.70	135.30	137.90	140.50	143.10	145.70	148.30	150.90
2.50	153.50	156.20	158.90	161.60	164.30	167.00	169.70	172.40	175.10	177.80
2.60	180.50	183.30	186.10	188.90	191.70	194.50	197.30	200.10	202.90	205.70
2.70	208.50	211.45	214.40	217.35	220.30	223.30	226.25	229.15	232.10	235.05
2.80	238.00	241.10	244.20	247.30	250.40	253.50	256.60	259.70	262.80	265.90
2.90	269.00	272.20	275.40	278.60	281.80	285.00	288.20	291.40	294.60	297.80
3.00	301.00	304.50	308.00	311.50	315.00	318.50	322.00	325.50	329.00	332.50
3.10	336.00	339.80	343.60	347.40	351.20	355.00	358.80	362.50	366.40	370.20
3.20	374.00	377.80	381.60	385.40	389.20	393.00	396.80	400.60	404.40	408.20
3.30	412.00	416.00	420.00	424.00	428.00	432.00	436.00	440.00	444.00	448.00
3.40	452.00	456.30	460.60	464.90	469.20	473.50	477.80	482.10	486.40	490.70
3.50	495.00	499.30	503.60	507.90	512.20	516.50	520.80	525.10	529.40	533.70
3.60	538.00	542.40	546.80	551.20	555.60	560.00	564.40	568.80	573.20	577.60
3.70	582.00	586.60	591.20	595.80	600.40	605.00	609.60	614.20	618.80	623.40
3.80	628.00	632.60	637.20	641.80	646.40	651.00	655.60	660.20	664.80	669.40
3.90	674.00	678.80	683.60	688.40	693.20	698.00	702.80	707.60	712.40	717.20
4.00	722.00	726.80	731.60	736.40	741.20	746.00	750.80	755.60	760.40	765.20
4.10	770.00	775.00	780.00	785.00	790.00	795.00	800.00	805.00	810.00	815.00
4.20	820.00	825.20	830.40	835.60	840.80	846.00	851.20	856.40	861.60	866.80
4.30	872.00	877.40	882.80	888.20	893.60	899.00	904.90	909.80	915.20	920.60
4.40	926.00	931.50	937.00	942.50	948.00	953.50	959.00	964.50	970.00	975.50
4.50	981.00	986.90	992.80	998.70	1004.60	1010.50	1016.40	1022.30	1028.20	1034.10
4.60	1040.00	1046.10	1052.20	1058.30	1064.40	1070.50	1076.60	1082.70	1088.80	1094.90
4.70	1101.00	1107.30	1113.60	1119.90	1126.20	1132.50	1138.8	1145.10	1151.40	1157.70
4.80	1164.00	1170.60	1177.20	1183.80	1190.40	1197.00	1203.60	1210.20	1216.80	1223.40
4.90	1230.00	1237.00	1244.00	1251.00	1258.00	1265.00	1272.00	1279.00	1286.00	1293.00
5.00	1300.00	1307.30	1314.60	1321.90	1329.20	1336.50	1343.80	1351.10	1358.40	1365.70
5.10	1373.00	1380.70	1388.40	1396.10	1403.80	1411.50	1419.20	1426.90	1434.60	1442.30
5.20	1450.00	1458.00	1466.00	1474.00	1482.00	1490.00	1498.00	1506.00	1514.00	1522.00

Gauge Height in m, Discharge in m³/sec
 Zero point of staff gauge: El. 5.043 m

DISCHARGE RATING TABLE NO. 1 of Aug. 1979 (1/2)

Station Banugao Effective from _____ to _____
 River System Agos Name of Stream Agos Drainage Area in km² 911

G.H.	.00	.01	.02	.03	.04	.05	.06	.07	.08	.09
9.50						1,000	1,009	1,018	1,026	1,035
9.60	1,044	1,053	1,061	1,070	1,079	1,088	1,096	1,105	1,114	1,123
9.70	1,131	1,140	1,149	1,158	1,166	1,175	1,184	1,193	1,202	1,210
9.80	1,219	1,228	1,237	1,245	1,254	1,263	1,272	1,280	1,289	1,298
9.90	1,307	1,315	1,324	1,333	1,342	1,350	1,359	1,368	1,377	1,386
10.00	1,394	1,403	1,412	1,421	1,429	1,438	1,447	1,456	1,464	1,473
10.10	1,482	1,491	1,499	1,508	1,517	1,526	1,534	1,543	1,552	1,561
10.20	1,570	1,578	1,587	1,596	1,605	1,613	1,622	1,631	1,640	1,648
10.30	1,657	1,666	1,675	1,683	1,692	1,701	1,710	1,718	1,727	1,736
10.40	1,745	1,754	1,762	1,771	1,780	1,789	1,797	1,806	1,815	1,824
10.50	1,832	1,841	1,850	1,859	1,867	1,876	1,885	1,894	1,902	1,911
10.60	1,920	1,930	1,941	1,951	1,961	1,971	1,982	1,992	2,002	2,012
10.70	2,023	2,033	2,043	2,053	2,064	2,074	2,084	2,094	2,105	2,115
10.80	2,125	2,135	2,146	2,156	2,166	2,176	2,187	2,197	2,207	2,217
10.90	2,228	2,238	2,248	2,258	2,269	2,279	2,289	2,299	2,310	2,320
11.00	2,330	2,340	2,351	2,361	2,371	2,381	2,392	2,402	2,412	2,422
11.10	2,433	2,443	2,453	2,463	2,474	2,484	2,494	2,504	2,515	2,525
11.20	2,535	2,545	2,556	2,566	2,576	2,586	2,597	2,607	2,617	2,627
11.30	2,638	2,648	2,658	2,668	2,679	2,689	2,699	2,709	2,720	2,730
11.40	2,740	2,754	2,769	2,783	2,797	2,811	2,826	2,840	2,854	2,868
11.50	2,883	2,897	2,911	2,925	2,940	2,954	2,968	2,982	2,997	3,011
11.60	3,025	3,039	3,054	3,068	3,082	3,096	3,111	3,125	3,139	3,153
11.70	3,168	3,182	3,196	3,210	3,225	3,239	3,253	3,267	3,282	3,296
11.80	3,310	3,324	3,339	3,353	3,367	3,381	3,396	3,410	3,424	3,438
11.90	3,453	3,467	3,481	3,495	3,510	3,524	3,538	3,552	3,567	3,581
12.00	3,595	3,609	3,624	3,638	3,652	3,666	3,681	3,695	3,709	3,723
12.10	3,738	3,752	3,766	3,780	3,795	3,809	3,823	3,837	3,852	3,866
12.20	3,880	3,896	3,911	3,927	3,942	3,958	3,973	3,989	4,004	4,020
12.30	4,035	4,051	4,066	4,082	4,097	4,113	4,128	4,144	4,159	4,175
12.40	4,190	4,206	4,221	4,237	4,252	4,268	4,283	4,299	4,314	4,330
12.50	4,345	4,361	4,376	4,392	4,407	4,423	4,438	4,454	4,469	4,485
12.60	4,500	4,518	4,537	4,555	4,573	4,591	4,610	4,628	4,646	4,664
12.70	4,683	4,701	4,719	4,737	4,756	4,774	4,792	4,810	4,829	4,847
12.80	4,865	4,883	4,902	4,920	4,938	4,956	4,975	4,993	5,011	5,029
12.90	5,048	5,066	5,084	5,102	5,121	5,139	5,157	5,175	5,194	5,212
13.00	5,230	5,248	5,267	5,285	5,303	5,321	5,340	5,358	5,376	5,394
13.10	5,413	5,431	5,449	5,467	5,486	5,504	5,522	5,540	5,559	5,577

Gauge Height in m, Discharge in m³/sec
 Zero point of staff gauge: El. 0 m

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DISCHARGE RATING TABLE NO. 1/2

Station Bayokan Effective from _____ to _____

River System Agos Name of Stream Agos Drainage Area in km² 869

G.H.	0.00	.01	.02	.03	.04	.05	.06	.07	.08	.09
39.50										
39.60										
39.70										26.8
39.80	27.08	27.36	27.64	27.92	28.2	28.5	28.8	29.1	29.4	29.7
39.90	30.0	34.4	30.8	31.2	1.6	32.0	32.4	32.8	33.2	33.6
40.00	34.0	34.4	34.8	35.2	35.6	36.0	36.4	36.8	37.2	37.6
40.10	38.0	38.6	39.2	39.8	40.4	41.0	41.6	42.2	42.8	43.4
40.20	44.0	44.7	45.4	46.1	46.8	47.5	48.2	48.9	49.6	50.3
40.30	51.0	51.8	52.6	53.4	54.2	55.0	55.8	56.6	57.4	58.2
40.40	59.0	60.1	61.2	62.3	63.4	64.5	65.6	66.7	67.8	68.9
40.50	70.0	71.4	72.8	74.2	75.6	77.0	78.4	79.8	81.2	82.6
40.60	84.0	85.8	87.6	89.4	91.2	93.0	94.8	96.6	98.0	100.2
40.70	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0
40.80	122.0	124.4	126.8	129.2	131.6	134.0	136.4	138.8	141.2	143.6
40.90	146.0	148.6	151.2	153.8	156.0	159.0	161.6	164.2	166.8	169.4
41.00	172.0	174.8	177.6	180.4	183.2	186.0	188.8	191.6	194.4	197.2
41.10	200.0	203.0	206.0	209.0	212.0	215.0	218.0	221.0	224.0	
41.20	230.0	233.2	236.4	239.6	242.8	246.0	449.2	252.4	255.6	258.8
41.30	262.0	265.3	268.6	271.9	275.2	278.4	281.6	285.1	288.7	292.2
41.40	295.0	298.5	302.0	305.5	316.0	317.3	318.6	320.0	323.3	226.7
41.50	330.0	333.8	337.6	341.4	345.2	349.0	352.8	356.6	360.4	364.2
41.60	368.0	371.8	375.6	379.4	383.2	387.0	390.8	396.0	398.4	402.3
41.70	406.2	410.2	414.1	418.0	422.0	426.0	430.0	434.0	438.0	442.0
41.80	446.0	450.2	454.4	458.6	462.8	467.0	471.2	475.4	479.6	483.6
41.90	488.0	492.2	496.4	500.6	504.8	509.0	513.2	517.4	521.6	525.8
42.00	530.1	534.4	538.7	543.0	547.3	551.6	555.7	559.7	563.6	567.8
42.10	572.0	576.2	580.4	584.6	588.8	593.0	597.2	601.4	605.6	609.2
42.20	613.4	617.6	521.8	626.0	630.2	635.0	639.2	643.4	647.6	651.8
42.30	656.0	660.2	664.4	668.6	672.8	677.0	681.2	685.4	689.6	693.8
42.40	698.0	702.2	706.4	710.6	714.8	719.0	723.2	727.4	731.6	735.8
42.50	740.0	744.2	748.4	752.6	756.8	761.0	765.2	769.4	773.6	777.8
42.60	782.0	786.2	790.4	794.6	798.8	803.0	807.2	211.4	815.6	819.8
42.70	824.0	828.2	832.4	836.6	840.8	845.0	849.2	853.4	857.6	861.8
42.80	866	870.2	874.4	878.6	882.8	887.0	891.2	895.4	899.6	903.8
42.90	908.0	912.2	916.4	920.6	924.8	929.0	933.2	937.4	941.6	945.8
43.00	905.0	954.2	958.4	962.6	966.8	971.0	975.2	979.4	983.6	987.8
43.10	992.0	996.2	1000.4	1004.6	1008.8	1013.0	1017.2	1021.4	1025.6	1029.8

Gauge Height in m, Discharge in m³/sec
 Zero point of staff gauge: El. _____ m

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DISCHARGE RATING TABLE NO. 1/2Station Matatio Effective from _____ to _____

River System	Agos		Name of Stream			Kanan		Drainage Area in km ²		361	
G.H.	0.00	.01	.02	.03	.04	.05	.06	.07	.08	.09	
123.10					1.527	1.861	2.195	2.530	2.864	3.198	
123.20	3.532	3.867	4.201	4.535	4.958	5.382	5.805	6.229	6.652	7.075	
123.30	7.499	7.922	8.346	8.769	9.296	9.823	10.350	10.877	11.404	11.931	
123.40	12.458	13.077	13.696	14.314	14.933	15.552	16.195	16.837	17.388	18.062	
123.50	18.756	19.432	20.189	20.348	21.567	22.308	23.050	23.814	24.578	25.364	
123.60	26.150	26.958	27.766	28.596	29.426	30.277	31.129	32.002	32.876	33.771	
123.70	34.666	35.582	36.498	37.430	38.374	39.333	40.292	41.272	42.252	43.253	
123.80	44.254	45.276	46.298	47.500	48.702	49.606	50.511	51.595	52.680	53.785	
123.90	54.890	56.016	57.142	58.288	59.434	60.600	61.766	62.953	64.140	65.347	
124.00	66.554	67.781	69.008	70.256	71.503	72.770	74.037	75.324	76.612	77.919	
124.10	79.226	80.553	81.880	83.227	84.574	85.940	87.307	88.694	90.080	91.486	
124.20	92.891	94.316	95.742	97.187	98.032	100.096	101.560	103.045	104.530	106.030	
124.30	107.530	109.055	110.580	112.120	113.660	115.220	116.780	118.380	119.940	121.540	
124.40	123.140	124.760	126.300	128.015	129.650	131.305	132.960	134.635	136.310	138.005	
124.50	139.700	141.410	143.120	144.855	146.590	148.340	150.090	151.860	153.630	155.415	
124.60	157.200	159.005	160.810	162.635	164.460	166.305	168.150	170.010	171.870	173.750	
124.70	175.630	177.530	179.430	181.345	183.260	185.195	187.130	189.085	191.040	193.010	
124.80	194.990	196.970	198.960	200.970	202.980	205.005	207.060	209.090	211.120	213.185	
124.90	215.250	217.330	219.410	221.510	223.610	225.725	227.840	229.975	232.110	234.260	
125.00	236.310	238.365	240.320	242.285	244.250	246.225	248.200	250.191	252.182	254.184	
125.10	256.186	258.201	260.215	262.242	264.275	266.308	268.358	270.409	272.459	274.518	
125.20	276.576	278.652	280.727	282.815	284.903	287.003	289.102	291.214	293.340	295.466	
125.30	297.593	299.719	301.845	303.993	306.141	308.300	310.466	312.631	314.810	316.990	
125.40	319.169	321.370	323.571	325.772	327.973	330.192	332.428	334.664	336.900	339.137	
125.50	341.373	343.609	345.862	348.144	350.427	352.709	354.991	357.274	359.556	361.839	
125.60	364.121	366.443	368.762	371.082	373.403	375.723	378.057	380.423	382.789	385.155	
125.70	387.521	389.886	392.252	394.618	396.984	399.350	401.740	404.148	406.555	408.963	
125.80	411.370	413.790	416.210	418.650	421.090	423.530	426.015	428.500	430.985	433.470	
125.90	435.955	438.440	440.925	443.410	445.895	448.380	450.865	453.350	455.835	458.320	
126.00	460.85	463.380	465.910								
126.10											
126.20											
126.30											
126.40		569.035									
126.50											
126.60					633.580						
126.70											

Gauge Height in m, Discharge in m³/sec
 Zero point of staff gauge: El. _____ m

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DISCHARGE RATING TABLE NO. NPC-original (1/2)

Station Daraitan Effective from _____ to _____

River System Agos Name of Stream Kaliwa Drainage Area in km² _____

G.H.	.00	.01	.02	.03	.04	.05	.06	.07	.08	.09
127.0										
1										
2										
3							1.000	1.025		1.075
4	1.10		1.20	1.25	1.30	1.40	1.50	1.60	1.70	1.80
5	1.90	2.00	2.10	2.25	2.40	2.60	2.80	3.00	3.20	3.45
6	3.70	3.95	4.20	4.45	4.70		5.20		5.70	
7	6.30		6.90	7.20	7.50	7.80	8.10	8.40		9.05
8	9.4	9.75	10.1	10.5	10.8	11.2	11.5	11.9	12.2	12.6
9	13.0	13.4	13.8		14.6	15.0			16.2	16.6
128.0	17.0		17.9		18.8	19.3	19.7			21.1
1			22.5	23.0		24.0		25.0		26.1
2	26.6	27.2			28.8			30.5		
3		32.8		34.0	34.6				37.0	
4			39.0	40.3	41.0			43.3	44.0	
5	45.5							51.4		53.2
6									62.1	
7		65.4		67.7		70.0				
8		77.9							88.3	
9			94.7							
129.0	108.6		112.2						123.3	
1							138.1			
2										
3										
4							197			
5									216.5	
6										237.1
7				244.6						
8										
9										
130.0										
1			317							
2										
3										
4								383.1		
5								401.9		
6										

Gauge Height in m, Discharge in m³/sec
 Zero point of staff gauge: El. _____ m

DISCHARGE RATING TABLE NO. NPC-original (2/2)

Station Daraitan Effective from _____ to _____

River System Agos Name of Stream Kaliwa Drainage Area in km² _____

G.H.	.00	.01	.02	.03	.04	.05	.06	.07	.08	.09
130.7									451	
8						464				
9										
131.0										
1					561					
2										
3										
4										
5										
6										
7										
8										
9										
132.0										
1										
2				713						
3										
4										
5									781	
6										
7										
8										
9										
133.0										
1										
2										
3										
4										
5										
6										
7						1,000				
8										
9										
134.0										

Gauge Height in m, Discharge in m³/sec
 Zero point of staff gauge: El. _____ m

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DISCHARGE RATING TABLE NO. NPC-modified(1/2)Station Darailan Effective from _____ to _____River System Agos Name of Stream Kaliwa Drainage Area in km² _____

G.H.	.00	.01	.02	.03	.04	.05	.06	.07	.08	.09
127.0										
1										
2										
3							.095	1.02		
4	1.27	1.36	1.45	1.55	1.65	1.75	1.85	1.95		2.
5	2.30	2.45	2.60	2.75	2.90	3.05	3.20	3.35		
6	3.80	4.00			4.65					
7			6.42	6.70	6.94		7.45	7.72	8.00	8.24
8		8.85	9.2	9.55	9.90		10.6		11.3	11.65
9		12.4		13.2	13.6					
128.0	16.0			17.35		18.25			19.6	
1				22.0						25.0
2	25.5		26.6	27.15	27.70	28.25	28.8		29.9	30.45
3	31.00	31.65	32.30		33.60	34.25		35.55		36.85
4		38.25	39.0	39.75				42.75		44.25
5	45.0		46.6				49.8			
6	53.0		54.8		56.6					
7								69.0	70.0	
8		73.0								
9				85.0	86.0		88.0			
129.0	92.0		94.2		96.4				100.8	
1			105.4				110.2			
2	115	116			120.2	121.5	122.8			
3									139.2	
4	142		145.0				151.0			
5									169.0	
6						180.0			184.8	186.4
7	188			192.8						
8										
9										
130.0			266?							
1							295.2			
2										
3										
4										
5						364				
6										399.6

Gauge Height in m, Discharge in m³/sec

Zero point of staff gauge: El. _____ m

DISCHARGE RATING TABLE NO. NPC-modified (2/2)

Station Daraitan Effective from _____ to _____

River System Agas Name of Stream Kaliwa Drainage Area in km² _____

G.H.	.00	.01	.02	.03	.04	.05	.06	.07	.08	.09
130.7							410.8		422.4	
8						443	446			
9										
131.0										
1					460	533?				
2										
3										605
4										
5										
6										
7							739			
8										
9										871
132.0										
1										
2				927						
3										
4										
5							1030			1095
6										
7									1,190	
8										
9										
133.0										
1					1,370					
2										
3										
4										
5										
6										
7					1,658					
8										
9										
134.0										

Gauge Height in m, Discharge in m³/sec
 Zero point of staff gauge: El. _____ m

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DISCHARGE RATING TABLE NO. I (1/2)Station Mahabang Lalim Effective from June 17, 1978 to _____River System Agos Name of Stream Agos Drainage Area in km² 869

G.H.	.00	.01	.02	.03	.04	.05	.06	.07	.08	.09	
	0	14.5	15.0	15.4	15.9	16.3	16.8	17.2	17.7	18.1	18.6
5.2	0.1	19.0	19.5	20.0	20.6	21.1	21.6	22.1	22.6	23.2	23.7
5.9	2	24.2	24.8	25.4	25.9	26.5	27.1	27.7	28.3	28.8	29.4
6.0	3	30.0	30.6	31.2	31.8	32.4	33.0	33.6	34.2	34.8	35.4
	4	36.0	36.7	37.4	38.1	38.8	39.5	40.2	40.9	41.6	42.3
8.0	5	43.0	43.8	44.6	45.4	46.2	47.0	47.8	48.6	49.4	50.2
7.0	6	51.0	51.9	52.8	53.7	54.6	55.5	56.4	57.3	58.2	59.1
10.4	7	60.0	61.0	62.1	63.1	64.2	65.2	66.2	67.3	68.3	69.4
13.6	8	70.4	71.8	73.1	74.5	75.8	77.2	78.6	79.9	81.3	82.6
16.0	9	84.0	85.6	87.2	88.8	90.4	92.0	93.6	95.2	96.8	98.4
17.0	1.0	100.0	102	103	105	107	109	110	112	114	116
18.1	1	117.4	119	121	123	125	127	129	131	133	134
20.5	2	136.3	138	140	142	145	147	149	151	153	155
	3	156.8	159	161	163	165	168	170	172	174	176
	4	178.5	181	183	186	188	191	193	195	198	200
	5	202.5	206	209	213	216	219	223	226	229	233
	6	236	239	243	246	250	253	256	260	263	267
	7	270	273	277	280	284	287	290	294	297	301
	8	304	308	312	316	320	324	328	332	336	340
	9	344	347	351	355	359	363	367	371	375	379
	2.0	383	387	392	396	400	405	409	413	418	422
	1	427	431	435	440	444	448	453	457	461	466
	2	470	475	479	484	488	493	497	502	506	511
	3	515	520	524	529	533	538	542	547	551	556
	4	560	565	569	574	578	583	588	592	597	601
	5	606	611	615	620	624	629	634	638	643	647
	6	652	657	661	666	671	675	680	685	689	694
	7	699	703	708	712	717	722	726	731	736	740
	8	745	750	755	760	765	770	774	779	784	789
	9	794	799	804	809	814	819	823	828	833	838
	3.0	843	848	853	858	863	868	873	878	883	888
	1	893	897	902	907	912	917	922	927	932	937
	2	942	947	952	957	962	968	973	978	983	988
	3	993	998	1.003	1.008	1.013	1.019	1.024	1.029	1.034	1.039
	4	1.044	1.049	1.055	1.060	1.065	1.071	1.076	1.081	1.086	1.092

Gauge Height in m, Discharge in m³/sec
 Zero point of staff gauge: El. 38.073 m

DISCHARGE RATING TABLE NO. I (2/2)

Station Mahabang Lalim Effective from June 17, 1978 to _____

River System Agos Name of Stream Agos Drainage Area in km² 869

G.H.	.00	.01	.02	.03	.04	.05	.06	.07	.08	.09
5	1.097	1.102	1.108	1.113	1.118	1.124	1.129	1.134	1.139	1.145
6	1.150	1.155	1.161	1.166	1.171	1.177	1.182	1.187	1.193	1.198
7	1.204	1.209	1.214	1.220	1.225	1.230	1.236	1.241	1.246	1.252
8	1.257	1.262	1.268	1.273	1.279	1.284	1.289	1.295	1.300	1.306
9	1.311	1.316	1.322	1.327	1.333	1.338	1.343	1.349	1.354	1.360
4.0	1.365	1.371	1.376	1.382	1.388	1.393	1.399	1.404	1.410	1.416
1	1.421	1.427	1.433	1.438	1.444	1.449	1.455	1.461	1.466	1.472
2	1.478	1.483	1.489	1.494	1.500					
3										
4										
5										
6										
7										
8										
9										
5.0										
1										
2										
3										
4										
5										
6										
7										
8										
9										
6.0										
1										
2										
3										
4										
5										
6										
7										
8										
9										
2.0										

Gauge Height in m, Discharge in m³/sec
 Zero point of staff gauge: El. 38.073 m

Nov 13, 1979

5.3 Elevation of Staff Gauges and Bench Marks

Description	River	Bank	G. H.	EL.
Zero on staff	Agos	Left B.	0.00'	38.073'
BM-1	Kanan	Left B.	9.528'	54.245'
BM-2	Kanan	Left B.	9.932'	54.649'
BM-3	Kanan	Right B.	8.799'	53.516'
BM-4	Kanan	Right B.	8.712'	53.429'
Zero on staff	Kanan	Left & Right	0.00'	44.717'
BM-5	Kaliwa	Left B.	11.092'	
BM-6	Kaliwa	Left B.	9.591'	
BM-7	Kaliwa	Left B.	8.798'	
Zero on staff	Kaliwa	Left B.	0.00'	
Zero on temporary staff at the confluence	Kaliwa	Right B.	0.00'	42.630'

Note: The above BM's are set up by hydrology team and, therefore, different from that set up by survey team even though they have the same BM number.

5.4 Gauge Height Conversion Table for Kakamansaw (1/7)
Temporary G.S. (Right Bank)

	00	01	02	03	04	05	06	07	08	09
0.00										
10										
20										
30										
40										
50										
60			4.50	4.50	4.50	4.51	4.51	4.51	4.52	4.52
70	4.52	4.52	4.52	4.53	4.53	4.53	4.54	4.54	4.54	4.54
80	4.54	4.55	4.55	4.55	4.56	4.56	4.56	4.56	4.56	4.57
90	4.57	4.57	4.58	4.58	4.58	4.58	4.58	4.59	4.59	4.59
1.00	4.60	4.60	4.60	4.60	4.60	4.61	4.61	4.61	4.62	4.62
10	4.62	4.62	4.62	4.63	4.63	4.63	4.64	4.64	4.64	4.64
20	4.65	4.65	4.65	4.66	4.66	4.66	4.66	4.66	4.67	4.67
30	4.67	4.68	4.68	4.68	4.68	4.68	4.69	4.69	4.69	4.70
40	4.70	4.70	4.70	4.70	4.71	4.71	4.71	4.72	4.72	4.72
50	4.72	4.72	4.73	4.73	4.73	4.74	4.74	4.74	4.74	4.74
60	4.75	4.75	4.75	4.76	4.76	4.76	4.76	4.76	4.77	4.77
70	4.77	4.78	4.78	4.78	4.78	4.78	4.79	4.79	4.79	4.80
80	4.80	4.80	4.80	4.80	4.81	4.81	4.81	4.82	4.82	4.82
90	4.82	4.82	4.83	4.83	4.83	4.84	4.84	4.84	4.84	4.84
2.00	4.85	4.85	4.85	4.86	4.86	4.86	4.86	4.86	4.87	4.87
10	4.87	4.88	4.88	4.88	4.88	4.88	4.89	4.89	4.89	4.90
20	4.90	4.90	4.90	4.90	4.91	4.91	4.91	4.92	4.92	4.92
30	4.92	4.92	4.93	4.93	4.93	4.94	4.94	4.94	4.94	4.94
40	4.95	4.95	4.95	4.96	4.96	4.96	4.96	4.96	4.97	4.97
50	4.98	4.98	4.98	4.98	4.98	4.99	4.99	4.99	5.00	5.00
60	5.00	5.00	5.00	5.01	5.01	5.01	5.02	5.02	5.02	5.02
70	5.02	5.03	5.03	5.03	5.04	5.04	5.04	5.04	5.04	5.05
80	5.05	5.05	5.06	5.06	5.06	5.06	5.06	5.07	5.07	5.07
90	5.08	5.08	5.08	5.08	5.08	5.09	5.09	5.09	5.10	5.10

	00	01	02	03	04	05	06	07	08	09
3.00	5.10	5.10	5.10	5.11	5.11	5.11	5.12	5.12	5.12	5.12
10	5.12	5.13	5.13	5.13	5.14	5.14	5.14	5.14	5.14	5.15
20	5.15	5.15	5.16	5.16	5.16	5.16	5.16	5.17	5.17	5.17
30	5.18	5.18	5.18	5.18	5.18	5.19	5.19	5.19	5.20	5.20
40	5.20	5.20	5.20	5.21	5.21	5.21	5.22	5.22	5.22	5.22
50	5.22	5.23	5.23	5.23	5.24	5.24	5.24	5.24	5.24	5.25
60	5.25	5.25	5.26	5.26	5.26	5.26	5.26	5.27	5.27	5.27
70	5.27	5.28	5.28	5.28	5.28	5.28	5.29	5.29	5.29	5.29
80	5.30	5.30	5.30	5.30	5.30	5.31	5.31	5.31	5.32	5.32
90	5.32	5.32	5.32	5.33	5.33	5.33	5.34	5.34	5.34	5.34
4.00	5.34	5.35	5.35	5.35	5.36	5.36	5.36	5.36	5.36	5.37
10	5.37	5.37	5.37	5.38	5.38	5.38	5.38	5.38	5.39	5.39
20	5.39	5.40	5.40	5.40	5.40	5.40	5.41	5.41	5.41	5.42
30	5.42	5.42	5.42	5.42	5.43	5.43	5.43	5.44	5.44	5.44
40	5.44	5.44	5.45	5.45	5.45	5.45	5.46	5.46	5.46	5.46
50	5.46	5.47	5.47	5.47	5.48	5.48	5.48	5.48	5.48	5.49
60	5.49	5.49	5.50	5.50	5.50	5.50	5.50	5.51	5.51	5.51
70	5.52	5.52	5.52	5.52	5.52	5.53	5.53	5.53	5.53	5.54
80	5.54	5.54	5.54	5.54	5.55	5.55	5.55	5.56	5.56	5.56
90	5.56	5.56	5.57	5.57	5.57	5.58	5.58	5.58	5.58	5.58
5.00	5.59	5.59	5.59	5.60	5.60	5.60	5.60	5.60	5.61	5.61
10	5.61	5.61	5.62	5.62	5.62	5.62	5.62	5.63	5.63	5.63
20	5.64	5.64	5.64	5.64	5.64	5.65	5.65	5.65	5.66	5.66
30	5.66	5.66	5.66	5.67	5.67	5.67	5.67	5.68	5.68	5.68
40	5.68	5.68	5.69	5.69	5.69	5.70	5.70	5.70	5.70	5.70
50	5.71	5.71	5.71	5.72	5.72	5.72	5.72	5.72	5.73	5.73
60	5.73	5.74	5.74	5.74	5.74	5.74	5.75	5.75	5.75	5.75
70	5.76	5.76	5.76	5.76	5.76	5.77	5.77	5.77	5.78	5.78
80	5.78	5.78	5.78	5.79	5.79	5.79	5.80	5.80	5.80	5.80
90	5.80	5.81	5.81	5.81	5.82	5.82	5.82	5.82	5.82	5.83

NO. 1 STAFF

NO. 2

	00	01	02	03	04	05	06	07	08	09	
6.00	5.83	5.83	5.83	5.84	5.84	5.84	5.84	5.84	5.85	5.85	
10	5.85	5.86	5.86	5.86	5.86	5.86	5.87	5.87	5.87	5.88	
20	5.88	5.88	5.88	5.88	5.89	5.89	5.89	5.90	5.90	5.90	
30	5.90	5.90	5.91	5.91	5.91	5.91	5.92	5.92	5.92	5.92	
40	5.92	5.93	5.93	5.93	5.94	5.94	5.94	5.94	5.94	5.95	
50	5.95	5.95	5.96	5.96	5.96	5.96	5.96	5.97	5.97	5.97	
60	5.98	5.98	5.98	5.98	5.98	5.99	5.99	5.99	5.99	6.00	
70	6.00	6.00	6.00	6.00	6.01	6.01	6.01	6.02	6.02	6.02	No. 2
80	6.02	6.02	6.03	6.03	6.03	6.04	6.04	6.04	6.04	6.04	
90	6.05	6.05	6.05	6.06	6.06	6.06	6.06	6.06	6.07	6.07	
7.00	6.07	6.07	6.07	6.07	6.07	6.07	6.08	6.08	6.08	6.08	
10	6.08	6.09	6.09	6.09	6.10	6.10	6.10	6.10	6.10	6.11	
20	6.11	6.11	6.11	6.12	6.12	6.12	6.12	6.12	6.13	6.13	No. 3
30	6.13	6.13	6.14	6.14	6.14	6.14	6.14	6.15	6.15	6.15	
40	6.16	6.16	6.16	6.16	6.16	6.17	6.17	6.17	6.17	6.18	
50	6.18	6.18	6.18	6.18	6.19	6.19	6.19	6.20	6.20	6.20	
60	6.20	6.20	6.21	6.21	6.21	6.21	6.22	6.22	6.22	6.22	
70	6.22	6.23	6.23	6.23	6.23	6.24	6.24	6.24	6.24	6.24	
80	6.25	6.25	6.25	6.26	6.26	6.26	6.26	6.26	6.27	6.27	
90	6.27	6.27	6.28	6.28	6.28	6.28	6.28	6.29	6.29	6.29	
8.00	6.30	6.30	6.30	6.30	6.30	6.31	6.31	6.31	6.31	6.32	
10	6.32	6.32	6.32	6.32	6.33	6.33	6.33	6.34	6.34	6.34	
20	6.34	6.34	6.35	6.35	6.35	6.35	6.36	6.36	6.36	6.36	
30	6.36	6.37	6.37	6.37	6.37	6.38	6.38	6.38	6.38	6.38	
40	6.39	6.39	6.39	6.40	6.40	6.40	6.40	6.40	6.41	6.41	
50	6.41	6.41	6.42	6.42	6.42	6.42	6.42	6.43	6.43	6.43	
60	6.44	6.44	6.44	6.44	6.44	6.45	6.45	6.45	6.45	6.46	
70	6.46	6.46	6.46	6.46	6.47	6.47	6.47	6.47	6.48	6.48	
80	6.48	6.48	6.48	6.49	6.49	6.49	6.50	6.50	6.50	6.50	
90	6.50	6.51	6.51	6.51	6.51	6.52	6.52	6.52	6.52	6.52	

	00	01	02	03	04	05	06	07	08	09	
9.00	6.53	6.53	6.53	6.54	6.54	6.54	6.54	6.54	6.55	6.55	No. 3
10	6.55	6.55	6.56	6.56	6.56	6.56	6.56	6.57	6.57	6.57	
20	6.57	6.58	6.58	6.58	6.58	6.58	6.59	6.59	6.59	6.60	
30	6.60	6.60	6.60	6.60	6.61	6.61	6.61	6.61	6.62	6.62	
40	6.62	6.62	6.62	6.63	6.63	6.63	6.64	6.64	6.64	6.64	
50	6.64	6.65	6.65	6.65	6.65	6.66	6.66	6.66	6.66	6.67	
60	6.67	6.67	6.67	6.67	6.68	6.68	6.68	6.68	6.68	6.69	No. 4
70	6.69	6.69	6.69	6.70	6.70	6.70	6.70	6.70	6.71	6.71	
80	6.71	6.71	6.72	6.72	6.72	6.72	6.72	6.73	6.73	6.73	
90	6.73	6.74	6.74	6.74	6.74	6.74	6.75	6.75	6.75	6.75	
10.00	6.75	6.76	6.76	6.76	6.76	6.76	6.77	6.77	6.77	6.77	
10	6.78	6.78	6.78	6.78	6.78	6.79	6.79	6.79	6.79	6.80	
20	6.80	6.80	6.80	6.80	6.81	6.81	6.81	6.81	6.82	6.82	
30	6.82	6.82	6.82	6.83	6.83	6.83	6.83	6.83	6.84	6.84	
40	6.84	6.84	6.84	6.85	6.85	6.85	6.85	6.86	6.86	6.86	
50	6.86	6.86	6.87	6.87	6.87	6.87	6.88	6.88	6.88	6.88	
60	6.88	6.89	6.89	6.89	6.89	6.90	6.90	6.90	6.90	6.90	
70	6.91	6.91	6.91	6.91	6.92	6.92	6.92	6.92	6.92	6.93	
80	6.93	6.93	6.93	6.93	6.94	6.94	6.94	6.94	6.94	6.95	
90	6.95	6.95	6.95	6.96	6.96	6.96	6.96	6.96	6.97	6.97	
11.00	6.97	6.97	6.98	6.98	6.98	6.98	6.98	6.99	6.99	6.99	
10	6.99	7.00	7.00	7.00	7.00	7.00	7.01	7.01	7.01	7.01	
20	7.01	7.02	7.02	7.02	7.02	7.02	7.03	7.03	7.03	7.03	
30	7.04	7.04	7.04	7.04	7.04	7.05	7.05	7.05	7.05	7.06	
40	7.06	7.06	7.06	7.06	7.07	7.07	7.07	7.07	7.08	7.08	
50	7.08	7.08	7.08	7.09	7.09	7.09	7.09	7.09	7.10	7.10	
60	7.10	7.10	7.10	7.11	7.11	7.11	7.11	7.12	7.12	7.12	
70	7.12	7.12	7.13	7.13	7.13	7.13	7.14	7.14	7.14	7.14	
80	7.14	7.15	7.15	7.15	7.15	7.16	7.16	7.16	7.16	7.16	
90	7.17	7.17	7.17	7.17	7.17	7.18	7.18	7.18	7.18	7.18	

	00	01	02	03	04	05	06	07	08	09
12.00	7.19	7.19	7.19	7.19	7.20	7.20	7.20	7.20	7.20	7.21
10	7.21	7.21	7.21	7.22	7.22	7.22	7.22	7.22	7.23	7.23
20	7.23	7.23	7.24	7.24	7.24	7.24	7.24	7.25	7.25	7.25
30	7.25	7.25	7.26	7.26	7.26	7.26	7.26	7.27	7.27	7.27
40	7.27	7.28	7.28	7.28	7.28	7.28	7.29	7.29	7.29	7.29
50	7.30	7.30	7.30	7.30	7.30	7.31	7.31	7.31	7.31	7.32
60	7.32	7.32	7.32	7.32	7.33	7.33	7.33	7.33	7.33	7.33
70	7.34	7.34	7.34	7.34	7.34	7.34	7.35	7.35	7.35	7.36
80	7.36	7.36	7.36	7.36	7.37	7.37	7.37	7.38	7.38	7.38
90	7.38	7.38	7.39	7.39	7.39	7.40	7.40	7.40	7.40	7.41
13.00	7.41	7.41	7.42	7.42	7.42	7.42	7.42	7.43	7.43	7.43
10	7.44	7.44	7.44	7.44	7.44	7.45	7.45	7.45	7.46	7.46
20	7.46	7.46	7.46	7.47	7.47	7.47	7.48	7.48	7.48	7.48
30	7.48	7.49	7.49	7.49	7.50	7.50	7.50	7.50	7.50	7.51
40	7.51	7.51	7.52	7.52	7.52	7.52	7.53	7.53	7.53	7.54
50	7.54	7.54	7.54	7.54	7.55	7.55	7.55	7.56	7.56	7.56
60	7.56	7.56	7.57	7.57	7.57	7.58	7.58	7.58	7.58	7.58
70	7.59	7.59	7.59	7.60	7.60	7.60	7.60	7.60	7.61	7.61
80	7.61	7.62	7.62	7.62	7.62	7.62	7.63	7.63	7.63	7.64
90	7.64	7.64	7.64	7.65	7.65	7.65	7.66	7.66	7.66	7.66
14.00	7.66	7.67	7.67	7.67	7.68	7.68	7.68	7.68	7.68	7.69
10	7.69	7.69	7.70	7.70	7.70	7.70	7.70	7.71	7.71	7.71
20	7.72	7.72	7.72	7.72	7.72	7.73	7.73	7.73	7.74	7.74
30	7.74	7.74	7.74	7.75	7.75	7.75	7.76	7.76	7.76	7.76
40	7.77	7.77	7.77	7.78	7.78	7.78	7.78	7.78	7.79	7.79
50	7.79	7.80	7.80	7.80	7.80	7.80	7.81	7.81	7.81	7.82
60	7.82	7.82	7.82	7.82	7.83	7.83	7.83	7.84	7.84	7.84
70	7.84	7.84	7.85	7.85	7.85	7.86	7.86	7.86	7.86	7.86
80	7.87	7.87	7.87	7.88	7.88	7.88	7.88	7.89	7.89	7.89
90	7.90	7.90	7.90	7.90	7.90	7.91	7.91	7.91	7.92	7.92

NO. 4

NO. 5

	00	01	02	03	04	05	06	07	08	09
15.00	7.92	7.92	7.92	7.93	7.93	7.93	7.94	7.94	7.94	7.94
10	7.94	7.95	7.95	7.95	7.96	7.96	7.96	7.96	7.96	7.97
20	7.97	7.97	7.98	7.98	7.98	7.98	7.98	7.99	7.99	7.99
30	8.00	8.00	8.00	8.00	8.00	8.01	8.01	8.01	8.02	8.02
40	8.02	8.02	8.03	8.03	8.03	8.04	8.04	8.04	8.04	8.04
50	8.05	8.05	8.05	8.06	8.06	8.06	8.06	8.06	8.07	8.07
60	8.07	8.08	8.08	8.08	8.08	8.08	8.09	8.09	8.09	8.10
70	8.10	8.10	8.10	8.10	8.11	8.11	8.11	8.12	8.12	8.12
80	8.12	8.12	8.13	8.13	8.13	8.14	8.14	8.14	8.14	8.15
90	8.15	8.15	8.16	8.16	8.16	8.16	8.16	8.17	8.17	8.17
16.00	8.19	8.19	8.20	8.20	8.20	8.20	8.20	8.21	8.21	8.21
10	8.21	8.21	8.22	8.22	8.22	8.22	8.22	8.22	8.23	8.23
20	8.23	8.23	8.23	8.24	8.24	8.24	8.24	8.24	8.25	8.25
30	8.25	8.25	8.25	8.26	8.26	8.26	8.26	8.26	8.26	8.27
40	8.27	8.27	8.27	8.27	8.28	8.28	8.28	8.28	8.28	8.29
50	8.29	8.29	8.29	8.29	8.30	8.30	8.30	8.30	8.30	8.31
60	8.31	8.31	8.31	8.31	8.32	8.32	8.32	8.32	8.32	8.32
70	8.33	8.33	8.33	8.33	8.33	8.34	8.34	8.34	8.34	8.34
80	8.35	8.35	8.35	8.35	8.35	8.36	8.36	8.36	8.36	8.36
90	8.37	8.37	8.37	8.37	8.37	8.38	8.38	8.38	8.38	8.38
17.00	8.38	8.39	8.39	8.39	8.39	8.39	8.40	8.40	8.40	8.40
10	8.40	8.41	8.41	8.41	8.41	8.41	8.42	8.42	8.42	8.42
20	8.42	8.42	8.43	8.43	8.43	8.43	8.43	8.44	8.44	8.44
30	8.44	8.44	8.45	8.45	8.45	8.45	8.45	8.46	8.46	8.46
40	8.46	8.46	8.47	8.47	8.47	8.47	8.47	8.48	8.48	8.48
50	8.48	8.48	8.48	8.49	8.49	8.49	8.49	8.49	8.50	8.50
60	8.50	8.50	8.50	8.51	8.51	8.51	8.51	8.51	8.52	8.52
70	8.52	8.52	8.52	8.52	8.53	8.53	8.53	8.53	8.53	8.54
80	8.54	8.54	8.54	8.54	8.55	8.55	8.55	8.55	8.55	8.56
90	8.56	8.56	8.56	8.56	8.57	8.57	8.57	8.57	8.57	8.58

NO.5

NO.6

	00	01	02	03	04	05	06	07	08	09
18.00	8.58	8.58	8.58	8.58	8.58	8.59	8.59	8.59	8.59	8.59
10	8.60	8.60	8.60	8.60	8.60	8.61	8.61	8.61	8.61	8.61
20	8.62	8.62	8.62	8.62	8.62	8.62	8.63	8.63	8.63	8.63
30	8.63	8.64	8.64	8.64	8.64	8.64	8.65	8.65	8.65	8.65
40	8.65	8.66	8.66	8.66	8.66	8.66	8.67	8.67	8.67	8.67
50	8.67	8.68	8.68	8.68	8.68	8.68	8.68	8.69	8.69	8.69
60	8.69	8.69	8.70	8.70	8.70	8.70	8.70	8.71	8.71	8.71
70	8.71	8.71	8.72	8.72	8.72	8.72	8.72	8.73	8.73	8.73
80	8.73	8.73	8.74	8.74	8.74	8.74	8.74	8.74	8.75	8.75
90	8.75	8.75	8.75	8.76	8.76	8.76	8.76	8.76	8.77	8.77

prepared on Nov 13, 1979 (Lat)

5.5 Measurement Position

Station	Measurement Item	Number of Line	Distance from Left Bank	Place of Origin
Mahabang Lalim	Discharge by float	4	20 35 55 75	zero mark on cable wire
Mahabang Lalim	Sediment Sampling	1	35	-do-
Kanan Temporary Cable-way at Kakamansaw	Discharge by float	3	35 53 70	small tree in front of anchor tree of cable in left bank

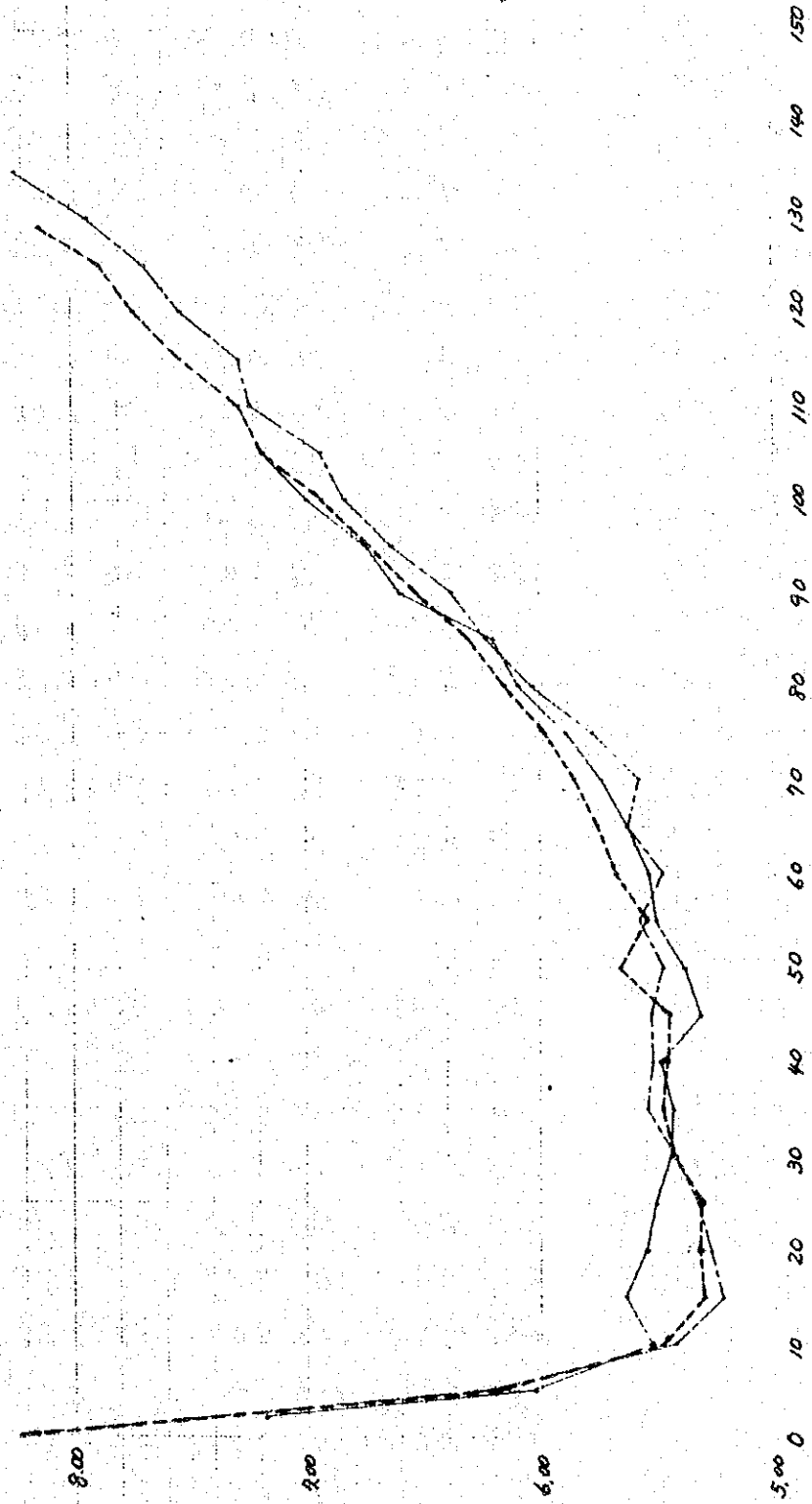
5.6 Typical Cross Section

Cross Section at Banugao

	July 10 '79	Dec 1 '79	Dec 2	Dec 2	Adopted
	G.H. 2.155	G.H. 3.21	G.H. 3.18	G.H. 3.11	
RWE	0 7.18	0 8.23	0 8.20	0 8.13	0 8.23
	3 6.03	5 6.23	1 7.81	5 6.18	5 6.23
	8 5.53	10 5.43	6 6.00	10 5.48	10 5.48
	13 5.64	15 5.23	11 5.40	15 5.31	15 5.31
	18 5.55	20 5.28	16 5.30	20 5.33	20 5.33
	23 5.51	25 5.33	21 5.40	25 5.32	25 5.33
	28 5.45	30 5.43	26 5.39	30 5.43	30 5.43
	33 5.44	35 5.55	31 5.55	35 5.48	35 5.55
	38 5.49	40 5.53	36 5.65	40 5.46	40 5.53
	43 5.32	45 5.53	41 5.45	45 5.45	45 5.53
	48 5.39	50 5.48	46 5.45	50 5.66	50 5.48
	53 5.51	55 5.58	51 5.50	55 5.55	55 5.58
	58 5.54	60 5.48	56 5.55	60 5.68	60 5.68
	63 5.63	65 5.63	61 5.65	65 5.76	65 5.76
	68 5.74	70 5.58	66 5.65	70 5.86	70 5.86
	73 5.89	75 5.78	71 5.85	75 5.98	75 5.98
	78 6.09	80 6.03	76 6.00	80 6.15	80 6.15
	83 6.20	85 6.23	81 6.00	85 6.31	85 6.31
	88 6.60	90 6.38	86 6.20	90 6.53	90 6.53
	93 6.74	95 6.63	91 6.50	95 6.73	95 6.73
	98 6.99	100 6.83	96 6.75	100 6.93	100 6.93
	103 7.18	105 6.93	101 7.00	105 7.18	105 7.18
		110 7.23	106 7.15	110 7.28	110 7.28
		115 7.28	111 7.30	115 7.53	115 7.53
		120 7.53	116 7.55	120 7.73	120 7.73
		125 7.68	121 7.65	125 7.88	125 7.88
		130 7.93	126 7.95	¹²⁹ 130 8.13	130 8.13
		135 8.23	131 8.20		135 8.23

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Cross Section at Banuqao Gauging Station



Cross Section at Mahabang Lalim

measured on Dec 5, 1976, GH. 1.23 ~ 1.22

	G.H. 1.225	EL.	NPC
LWE	- 13	39.43	< 40.5
5	232	36.98	< 37.9
10	373	35.57	> 35.15
15	416	35.14	> 34.4
20	385	35.45	> 34.8
25	277	36.51	> 36.1
30	246	36.84	< 37.0
35	225	37.05	< 37.9
40	207	37.23	< 38.2
45	200	37.30	< 37.9
50	238	36.92	< 37.65
55	265	36.65	< 37.3
60	223	37.07	< 37.45
65	211	37.19	< 37.75
70	187	37.43	< 37.95
75	163	37.67	< 38.1
80	152	37.78	< 38.3
85	130	38.00	< 38.55
90	91	38.39	< 38.6
95	64	38.66	< 38.75
100	31	38.99	< 39.1
105	20	39.11	< 39.2
110			39.3
115			39.5
120			39.9
125			40.35
130			41.25
135			42.5
140			43.0
145			43.0
150			44.65

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CROSS-SECTION OF KANAN RIVER ACROSS THE EXISTING TEMPORARY
CABLE WAY at Kakamana snow

ACUM DISTANCE	ELEVATION
0	108.00
4.9	102.20
9.6	98.9
17.5	95.0
22.8	90.6
24.6	89.7
26.2	87.5
34.5	80.9
39.0	77.0
51.5	68.4
56.9	65.0
61.8	62.2
66.5	59.3
71.1	55.5
76.4	53.1
80.2	52.9
84.0	51.8
85.9	50.6
91.0	49.5
96.6	49.1
97.1	48.9
102.1	48.8
107.1	48.4
112.1	47.6
117.1	48.0
122.1	48.3
127.1	48.8
132.1	49.0
137.1	49.2
142.2	49.6

CROSS SECTION OF KANAI RIVER ACROSS THE EXISTING TEMPORARY CABLE WAY

ALCUM DISTANCE	ELEVATION
147.1	49.9
152.0	50.0
158.9	50.4
165.0	53.3
170.9	53.7
172.5	55.2
181.2	56.7
187.7	57.8
193.9	58.6
198.9	59.0
204.5	59.6
206.5	59.0
211.1	60.6
216.3	61.5
222.3	62.1
224.2	62.4
238.7	63.9
240.9	63.6
250.3	65.8
256.0	67.1
261.7	68.5
272.1	70.0
227.7	70.6

CROSS SECTION OF KANAN RIVER TEN METERS (10.00 m)
DOWNSTREAM OF TEMPORARY CABLEWAY

DISM.	ELEVATION
0	108.5
6	103.1
11	78.1
15	94.6
20.5	90.0
23.0	86.1
23.4	85.2
25.5	83.3
28.5	81.2
47.0	65.0
48.5	63.3
54.0	60.9
58.0	57.8
64.0	55.6
72.4	51.4
75.6	50.2
77.5	49.9
82.0	49.2
87.0	48.3
92.0	48.7
97.0	49.2
102.0	47.8
106.5	49.0
111.5	49.2
116.5	48.5
121.5	49.1
126.5	49.1
131.5	49.5
136.5	49.7
141.5	49.9

②

CROSS SECTION OF KAIAN RIVER (10 M) DOWNSTREAM OF TEMPORARY CABLE WAY

ACCUM DISTANCE	ELEVATION
150.5	52.9
167.0	54.8
176.4	57.7
202.9	60.2
219.9	61.5
227.9	62.4
238.4	62.3
248.9	64.0
260.4	65.8
272.4	67.00
284.4	69.6
297.4	73.0

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CROSS SECTION OF KANAN RIVER (100.00 m.) DOWNSTREAM OF TEMPORARY
CABLE WAY

ACCUM DISTANCE	ELEVATION
0	101.2
17.5	93.6
31.5	83.1
57.0	78.8
60.5	77.0
64.5	73.2
68.7	71.2
75.0	67.0
80.5	63.0
85.7	58.9
97.0	54.2
99.5	52.3
112.0	51.0
118.2	51.1
129.7	49.5
139.9	49.1
144.9	49.2
149.9	49.0
154.9	49.3
159.9	48.8
164.9	49.1
169.9	49.4
174.9	49.1
179.9	49.7
184.9	49.9
189.9	49.8
194.9	50.0
199.9	49.9
204.9	50.0

② CROSS SECTION OF KANAN RIVER (100.00 M) DOWNSTREAM OF TEMPORARY
CABLEWAY

ACCUM DISTANCE	ELEVATION
209.9	50.5
220.9	51.8
230.4	53.4
240.4	54.2
250.7	55.0
266.9	55.8
280.7	54.6
292.4	57.2
306.3	59.4
344.4	69.8

Chapter 6

EVAPORATION RECORDS



METEOROLOGICAL RECORDS --B

STATION; Cuyambay

EI: _____

1969				Year	1970				Year		
TEMP (°)		R. H. (%)		E (mm)	Month	TEMP (°)		R. H. (%)		E (mm)	Month
						Jan					
				Feb					118.4	Feb	
				Mar						Mar	
				Apr					190.3	Apr	
				May					197.9	May	
				June					92.4	June	
				July					81.6	July	
				Aug					95.3	Aug	
				Sept					119.6	Sept	
				Oct					85.6	Oct	
				Nov					32.4	Nov	
				Dec					89.5	Dec	
			57.9	Total					1214.2	Total	
				Month					11	Month	
				Mean					110.4	Mean	

TEMP (°)	R. H. (%)	E ()													E ()	R. H. (%)	TEMP (°)										
Month		J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	Month	
Year														Year													

NOTE R. H. Relative humidity
E. Evaporation

N. K. Form No. 1311

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METEOROLOGICAL RECORDS — B

STATION; Cuyambay

EI;

1971			Year	1972			Year
TEMP (°)	R. H. (%)	E (mm)	Month	TEMP (°)	R. H. (%)	E (mm)	Month
		125.3	Jan			122.9	Jan
		142.8	Feb			149.1	Feb
		168.0	Mar			172.1	Mar
		161.2	Apr			194.9	Apr
		101.4	May			170.0	May
		109.2	June			112.4	June
		125.4	July			21.9	July
		144.2	Aug			33.8	Aug
		96.9	Sept			46.9*	Sept
		106.8	Oct			109.3	Oct
		83.6	Nov			112.8	Nov
		91.2	Dec			102.4	Dec
		1456.0	Total			1348.5	Total
		12	Month			12	Month
		121.3	Mean			112.4*	Mean

TEMP (°)	R. H. (%)	E ()													E ()	R. H. (%)	TEMP (°)								
Month	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	Month
Year																									Year

NOTE: R. H. Relative humidity
E. Evaporation

METEOROLOGICAL RECORDS — B

STATION; Cuyambay

EI;

1973				Year	1974				Year		
TEMP (°)		R. H. (%)		E (mm)	Month	TEMP (°)		R. H. (%)		E (mm)	Month
				110.7	Jan					134.1	Jan
				133.0	Feb					133.6	Feb
				190.8	Mar					169.7	Mar
				222.7	Apr					171.1	Apr
				197.0	May					140.7	May
				138.9	June					108.6	June
				126.1	July					94.7	July
				87.2	Aug					51.0	Aug
				85.2	Sept					108.7	Sept
				89.3	Oct					65.5	Oct
				105.6	Nov					83.6	Nov
				95.9	Dec					96.5	Dec
				1582.4	Total					1357.8	Total
				12	Month					12	Month
				131.9	Mean					113.2	Mean

TEMP (°)	R. H. (%)	E ()	<table border="1"> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>																																																										E ()	R. H. (%)	TEMP (°)
Month	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	Month																																						
Year															Year																																																

NOTE: R. H. Relative humidity
E. Evaporation

METEOROLOGICAL RECORDS — B

STATION: Cuyambay

EI: _____

1975				Year	1976				Year
TEMP (°)	R. H. (%)	E (mm)	Month		TEMP (°)	R. H. (%)	E (mm)	Month	
		106.4	Jan				89.8	Jan	
		125.2	Feb				136.2	Feb	
		156.0	Mar				178.9	Mar	
		163.3	Apr				129.0*	Apr	
		165.3	May					May	
		112.9	June					June	
		114.1	July					July	
		57.4	Aug					Aug	
		119.8	Sept				42.1*	Sept	
		88.6	Oct				119.4	Oct	
		91.6	Nov				87.2	Nov	
		72.7	Dec				98.8	Dec	
		1373.3	Total				710.3	Total	
		12	Month				6	Month	
		114.4	Mean				118.4	Mean	

TEMP (°)	R. H. (%)	E ()	[Empty Grid]												E ()	R. H. (%)	TEMP (°)								
			[Empty Grid]																						
Month	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	Month
Year																									Year

NOTE R. H. Relative humidity
E. Evaporation

DAILY EVAPORATION RECORD

STATION: Cuyambay, Tanay

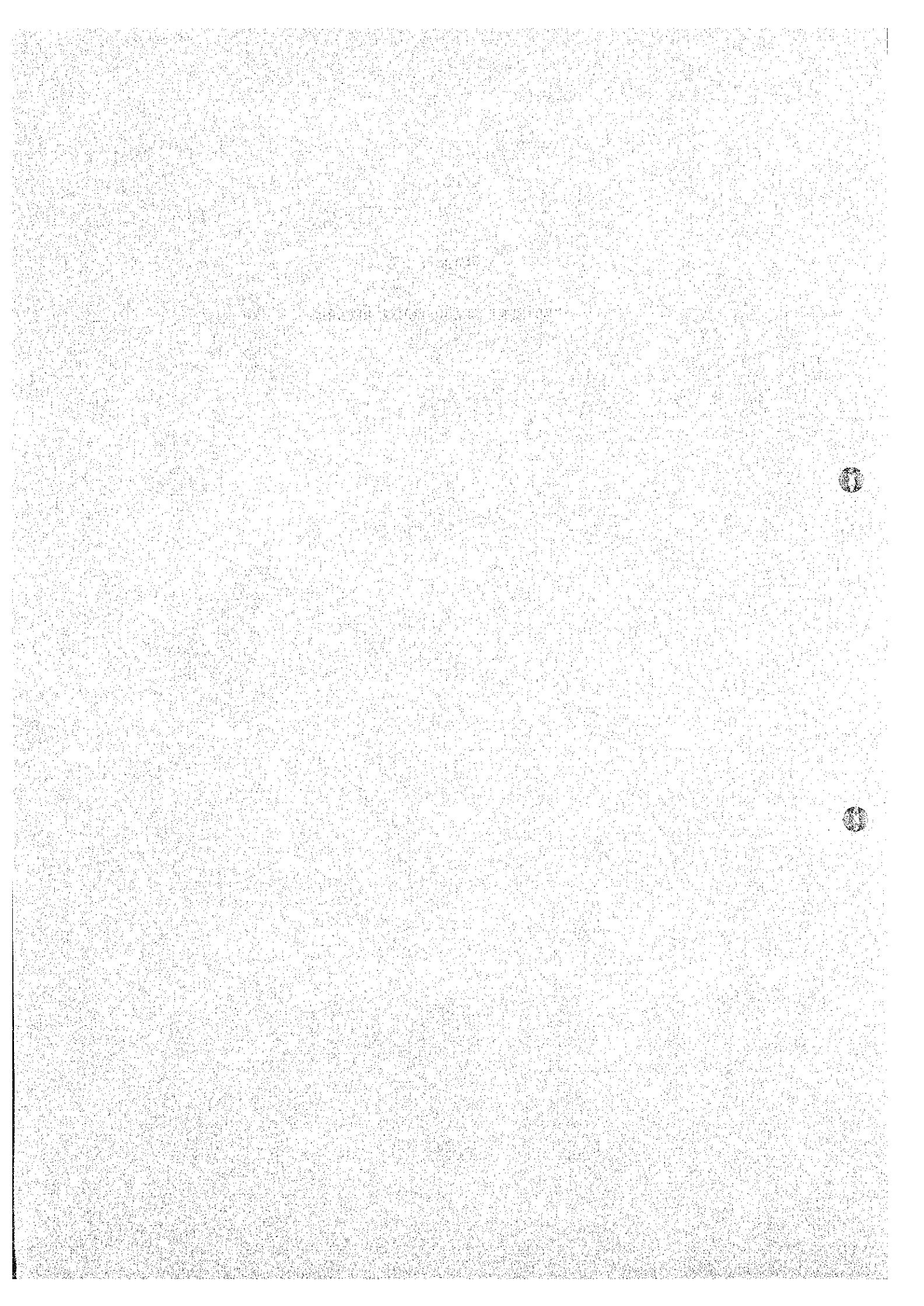
El. _____ Annual total: 1,357.8 mm Year 1974

M D	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	M D
1	4.3	5.6	6.6	6.4	4.0	3.0	5.3	3.5	1.3	3.1	0		1
2	3.6	4.1	4.8	7.6	5.1	3.5	3.8	3.0	2.3	3.5	1.2		2
3	4.0	5.8	5.9	7.3	3.2	1.2	4.3	3.0	4.0	2.5	4.1		3
4	6.6	4.1	2.3	5.6	5.1	0.8	2.8	2.6	3.6	3.9	3.5		4
5	6.7	5.5	4.3	5.8	2.8	0	0.1	2.0	4.8	2.8	3.6		5
6	5.5	4.6	6.1	6.4	4.3	3.3	3.0	3.8	3.8	0	0.2		6
7	4.9	3.8	5.3	5.8	5.1	4.8	3.7	1.3	3.3	2.5	0.6		7
8	3.0	5.1	4.6	7.4	6.8	2.0	0.7	1.5	3.8	1.1	1.5		8
9	2.3	6.1	3.8	6.4	5.4	0.2	0.7	1.0	2.4	3.3	3.5		9
10	2.8	6.1	5.6	6.9	7.9	0	2.3	0	2.2	1.0	4.1		10
11	4.1	4.6	4.3	6.1	3.8	0.2	5.1	0	5.3	1.9	3.6		11
12	4.0	7.1	7.1	6.0	2.8	3.0	2.8	1.8	3.1	1.5			12
13	4.4	6.6	5.3	6.9	4.0	4.8	3.1	1.2	3.3	3.5			13
14	4.5	3.3	4.4	7.4	5.8	5.6	1.1	0	4.6	2.6	1.7		14
15	5.1	3.8	5.8	6.1	6.1	5.4	3.6	0	6.1	2.2	4.1		15
16	4.8	3.8	5.3	6.3	4.8	1.4	4.6	0	6.0	0.3	3.3		16
17	5.1	5.6	4.4	5.9	4.1	2.8	1.5	0	4.5	0	3.0		17
18	3.8	4.3	6.0	6.1	5.3	4.6	4.3	1.0	5.4	3.3	4.9		18
19	4.6	4.3	7.6	5.1	3.1	2.8	1.0	0	3.0	2.3	3.8		19
20	3.5	7.1	5.4	3.8	2.3	4.8	0	2.2	4.6	2.3	3.6		20
21	2.6	5.8	3.8	3.1	6.1	4.3	3.1	1.8	3.0	1.5	3.9		21
22	4.0	5.6	5.6	3.3	6.8	5.4	6.8	4.1	4.1	2.3	3.0		22
23	2.6	5.9	7.6	5.6	6.6	5.4	4.6	2.5	1.3	1.8	4.4		23
24	4.5	4.5	5.9	6.1	5.6	4.5	5.1	1.3	0.5	4.3	4.2		24
25	4.1	3.6	6.8	4.3	4.1	6.4	1.5	4.0	1.6	2.0	5.1		25
26	4.3	2.3	6.4	4.1	3.3	6.6	2.5	1.9	4.0	3.1	2.8		26
27	4.6	1.8	5.1	5.8	1.2	5.6	3.8	1.7	3.8	1.5	3.8		27
28	4.6	2.8	6.3	5.1	3.0	6.8	4.3	2.5	4.3	1.0	0		28
29	4.5		5.9	4.3	2.0	4.8	2.8	0	4.1	1.3	1.5		29
30	4.6		5.3	4.1	6.1	4.6	4.4	2.3	4.6	2.5	4.6		30
31	6.1		6.1		4.1		2.0	1.0		0.6			31
Max													Max
Days													Days
Total	134.1	133.6	169.7	171.1	140.7	108.6	94.7	51.0	108.7	65.5	83.6	96.5	Total

Unit: mm

Chapter 7

SEDIMENT MEASUREMENT RECORDS



SUSPENDED LOAD MEASUREMENT

499

Station: Mahabang Lalim

No.	Date	Drainage Area km ²	River System Agos	River Agos	Remarks
		G. H.	Concentration by weight (PPM)		
1	Nov 16 '78	1.28	19.5		3 samples
2	Nov 17 '78	1.19	15.0		3 samples
3	Nov 18 '78	1.07	20.6		3 samples
4	Jan 30 '79	0.52	37.8		3 samples
5	Jan 31 '79	0.53	8.91		3 samples
6	Jan 8 '79	0.20	40.9		3 samples
7	Sep 2 '79	-	9.99		3 samples
8	Sep 12 '79	-	111		3 samples
9	Sep 26 '79	-	132		3 samples
10	Oct 5 '79	2.55	713		3 samples
11	Oct 6 '79	2.30	162		3 samples
12	Oct 21 '79	1.55	136		10:50 a.m.
13	"	1.205	132		2:50 p.m.
14	Nov 14 '79	1.70	235		by DH-59
15	"	1.97	348		by DH-59
16	Nov 16 '79	2.04	177		
17	Nov 19 '79	1.53	29.0		
18	Nov 20 '79	1.70	38.5		
19	Nov 27 '79	2.04	246		
20	Nov 30 '79	1.85	43.8		
21	Dec 4 '79	1.36	6.71		

Elevation of zero point on Staff-Gauge: _____ m AMSL

500

SUSPENDED LOAD MEASUREMENT

 Station: Mahabang Lalim

No.	Date	Drainage Area km ²	River System Agos	River Agos	Remarks
22	Feb 27 '80	0.40	3.26		3 samples
23	Feb 28 '80	0.37	4.82		3 samples
24	Mar 11 '80	0.26	28.5		3 samples
25	"	0.22	12.7		3 samples
26	Mar 17 '80	0.24	39.2		2 samples
27	Mar 23 '80	0.26	13.5		3 samples by DH-59
28	Mar 24 '80	1.52	231		3 samples by DH-59
29	Mar 25 '80	2.825	1.759		2 samples by DH-59
30	"	3.65	1.935		3 samples by DH-59
31	Mar 26 '80	2.495	915		2 samples
32	Apr 20 '80	0.80	10.2		16.5
33	May 2 '80	0.105	23.6		2 samples
34	May 7 '80	0.10	35.4		2 samples
35	May 19 '80	1.27	1.059		3 samples
36	May 26 '80		10.6		

Elevation of zero point on Staff Gauge: _____ m AMSL

SUSPENDED LOAD MEASUREMENT

Station: Nio

No.	Date	G. H.	Concentration by weight (PPM)	Remarks
1	Feb 1 '79	0.69	5.49	3 samples at Daraitan
2	Feb 2 '79	0.67	13.0	3 samples at Daraitan
3	Jun. 7 '79	0.91	9.79	3 samples at Daraitan
4	'79	1.04	10.7	3 samples at Daraitan
5	Oct 6 '79	2.30	222	3 samples
6	Nov 14 '79	4.05	270	at confluence
7	"	3.85	346	at confluence
8	Nov 16 '79	-	309	left bank at the confluence 3:00 p.m.
9	"	-	65.0	right bank at the confluence 9:00 p.m.
10	Nov 19 '79	3.55	20.2	9:20 a.m. at the confluence
11	Nov 20 '79	3.88	275	4:00 p.m. at the confluence
12	Nov 22 '79	4.795	212	
13	Mar 23 '80	2.65	11.2	2 samples at Nio
14	Mar 25 '80	-	2,181	2 samples at the confluence
15	Apr 15 '80	2.74	18.6	
16	Apr 18 '80	2.74	23.2	
17	Apr 29 '80	2.68	7.32	2 samples
18	May 8 '80	2.64	14.8	2 samples
19	May 27 '80	3.59	166	2 samples

Elevation of zero point on Staff-Gauge: _____ m AMSL

