

FLOOD CONTROL CALCULATION (30-YEAR RETURN PERIOD)

* MAX. CONTROL = 434.4 (CM/S)
 * ONTROL CUT D. = 1,821.3 (CM/S)
 * S.CAPACITY = 42,251.7*1000 (CM)

HRS	O.S.INFLOW (CM/S)	C.OUTFLOW (CM/S)	STRAGE (10 ³ CM)	MG.RUN-OFF (CM/S)	ST.RUN-OFF (CM/S)	T.RUN-OFF (CM/S)
0)	50.0	50.0	0.0	114.0	164.0	164.0
2)	68.9	53.6	55.1	177.3	230.9	246.2
4)	145.6	68.4	388.0	350.5	418.9	496.1
6)	321.2	102.2	1,454.1	805.2	907.5	1,126.4
8)	703.5	175.8	4,141.7	2,173.1	2,348.9	2,876.5
10)	1,703.5	368.4	10,847.4	3,570.2	3,938.6	5,273.7
12)	2,305.7	484.4	22,210.4	3,180.7	3,665.1	5,486.4
14)	1,607.5	484.4	32,810.4	2,318.3	2,802.7	3,925.9
16)	1,009.9	484.4	38,745.5	1,700.6	2,185.0	2,710.6
18)	694.6	484.4	41,394.1	1,292.3	1,776.7	1,986.9
20)	512.4	484.4	42,251.7	1,016.4	1,500.8	1,528.8
22)	397.6	484.4	42,039.8	775.2	1,259.6	1,172.8
24)	287.9	484.4	41,019.7	578.1	1,062.5	866.0
26)	198.9	484.4	39,284.2	456.6	941.0	655.5
28)	152.2	484.4	37,060.1	376.4	860.8	528.5
30)	124.6	484.4	34,568.7	320.5	804.9	445.1
32)	106.9	484.4	31,914.1	280.1	764.5	386.9
34)	94.8	484.4	29,152.3	249.8	734.3	344.6
36)	86.2	484.4	26,316.3	226.6	711.1	312.9
38)	79.9	484.4	23,426.5	208.5	692.9	288.3
40)	75.1	484.4	20,496.7	193.9	678.3	269.0
42)	71.4	484.4	17,536.1	182.1	666.5	253.5
44)	68.4	484.4	14,551.5	172.4	656.8	240.8
46)	66.0	484.4	11,547.7	100.0	584.4	166.0
48)	50.0	484.4	8,477.7	100.0	584.4	150.0

* MAX. CONTROL = 868.8 (CM/S)
 * ONTROL CUT D. = 1,386.9 (CM/S)
 * S.CAPACITY = 27,192.5*1000 (CM)

HRS	O.S.INFLOW (CM/S)	C.OUTFLOW (CM/S)	STRAGE (10 ³ CM)	MG.RUN-OFF (CM/S)	ST.RUN-OFF (CM/S)	T.RUN-OFF (CM/S)
0)	50.0	50.0	0.0	114.0	164.0	164.0
2)	68.9	57.3	41.9	177.3	234.6	246.2
4)	145.6	86.8	295.4	350.5	437.3	496.1
6)	321.2	154.5	1,107.2	805.2	959.7	1,126.4
8)	703.5	301.7	3,153.9	2,173.1	2,474.7	2,876.5
10)	1,703.5	686.9	8,260.1	3,570.2	4,257.0	5,273.7
12)	2,305.7	918.8	16,912.9	3,180.7	4,099.5	5,486.4
14)	1,607.5	918.8	24,385.1	2,318.3	3,237.1	3,925.9
16)	1,009.9	918.8	27,192.5	1,700.6	2,619.4	2,710.6
18)	694.6	918.8	26,713.3	1,292.3	2,211.1	1,986.9
20)	512.4	918.8	24,443.1	1,016.4	1,935.2	1,528.8
22)	397.6	918.8	21,103.6	775.2	1,694.0	1,172.8
24)	287.9	918.8	16,955.7	578.1	1,496.9	866.0
26)	198.9	918.8	12,092.4	456.6	1,375.4	655.5
28)	152.2	918.8	6,740.6	376.4	1,295.2	528.5
30)	124.6	918.8	1,121.4	320.5	1,239.3	445.1
32)	106.9	918.8	0.0	280.1	1,198.9	386.9
34)	94.8	94.8	0.0	249.8	344.6	344.6
36)	86.2	86.2	0.0	226.6	312.9	312.9
38)	79.9	79.9	0.0	208.5	288.3	288.3
40)	75.1	75.1	0.0	193.9	269.0	269.0
42)	71.4	71.4	0.0	182.1	253.5	253.5
44)	68.4	68.4	0.0	172.4	240.8	240.8
46)	66.0	66.0	0.0	100.0	166.0	166.0
48)	50.0	50.0	0.0	100.0	150.0	150.0

FLOOD CONTROL CALCULATION (30-YEAR RETURN PERIOD)

* MAX. CONTROL = 1,303.2 (CM/S)
 * ONTROL CUT D. = 952.5 (CM/S)
 * S.CAPACITY = 15,959.8*1000 (CM)

HRS	D.S.INFLOW (CM/S)	C.OUTFLOW (CM/S)	STRAGE (10 ³ CM)	MG.RUN-OFF (CM/S)	ST.RUN-OFF (CM/S)	T.RUN-OFF (CM/S)
0)	50.0	50.0	0.0	114.0	164.0	164.0
2)	68.9	60.9	28.8	177.3	238.2	246.2
4)	145.6	105.2	202.9	350.5	455.7	496.1
6)	321.2	206.7	760.4	805.2	1,011.9	1,126.4
8)	703.5	427.5	2,166.0	2,173.1	2,600.6	2,876.5
10)	1,703.5	1,005.3	5,672.9	3,570.2	4,575.5	5,273.7
12)	2,305.7	1,353.2	11,615.4	3,180.7	4,533.9	5,486.4
14)	1,607.5	1,353.2	15,959.8	2,318.3	3,671.5	3,925.9
16)	1,009.9	1,353.2	15,639.5	1,700.6	3,053.8	2,710.6
18)	694.6	1,353.2	12,032.6	1,292.3	2,645.5	1,986.9
20)	512.4	1,353.2	6,634.7	1,016.4	2,369.6	1,528.8
22)	397.6	1,353.2	167.4	775.2	2,128.4	1,172.8
24)	287.9	1,353.2	0.0	578.1	1,931.3	866.0
26)	198.9	198.9	0.0	456.6	655.5	655.5
28)	152.2	152.2	0.0	376.4	528.5	528.5
30)	124.6	124.6	0.0	320.5	445.1	445.1
32)	106.9	106.9	0.0	280.1	386.9	386.9
34)	94.8	94.8	0.0	249.8	344.6	344.6
36)	86.2	86.2	0.0	226.6	312.9	312.9
38)	79.9	79.9	0.0	208.5	288.3	288.3
40)	75.1	75.1	0.0	193.9	269.0	269.0
42)	71.4	71.4	0.0	182.1	253.5	253.5
44)	68.4	68.4	0.0	172.4	240.8	240.8
46)	66.0	66.0	0.0	100.0	166.0	166.0
48)	50.0	50.0	0.0	100.0	150.0	150.0

* MAX. CONTROL = 1,737.6 (CM/S)
 * ONTROL CUT D. = 518.1 (CM/S)
 * S.CAPACITY = 7,534.6*1000 (CM)

HRS	D.S.INFLOW (CM/S)	C.OUTFLOW (CM/S)	STRAGE (10 ³ CM)	MG.RUN-OFF (CM/S)	ST.RUN-OFF (CM/S)	T.RUN-OFF (CM/S)
0)	50.0	50.0	0.0	114.0	164.0	164.0
2)	68.9	64.6	15.7	177.3	241.9	246.2
4)	145.6	123.6	110.4	350.5	474.1	496.1
6)	321.2	258.9	413.6	805.2	1,064.1	1,126.4
8)	703.5	553.4	1,178.1	2,173.1	2,726.4	2,876.5
10)	1,703.5	1,323.8	3,085.6	3,570.2	4,893.9	5,273.7
12)	2,305.7	1,787.6	6,317.8	3,180.7	4,968.3	5,486.4
14)	1,607.5	1,787.6	7,534.6	2,318.3	4,106.0	3,925.9
16)	1,009.9	1,787.6	4,086.5	1,700.6	3,488.3	2,710.6
18)	694.6	1,787.6	0.0	1,292.3	3,079.9	1,986.9
20)	512.4	512.4	0.0	1,016.4	1,528.8	1,528.8
22)	397.6	397.6	0.0	775.2	1,172.8	1,172.8
24)	287.9	287.9	0.0	578.1	866.0	866.0
26)	198.9	198.9	0.0	456.6	655.5	655.5
28)	152.2	152.2	0.0	376.4	528.5	528.5
30)	124.6	124.6	0.0	320.5	445.1	445.1
32)	106.9	106.9	0.0	280.1	386.9	386.9
34)	94.8	94.8	0.0	249.8	344.6	344.6
36)	86.2	86.2	0.0	226.6	312.9	312.9
38)	79.9	79.9	0.0	208.5	288.3	288.3
40)	75.1	75.1	0.0	193.9	269.0	269.0
42)	71.4	71.4	0.0	182.1	253.5	253.5
44)	68.4	68.4	0.0	172.4	240.8	240.8
46)	66.0	66.0	0.0	100.0	166.0	166.0
48)	50.0	50.0	0.0	100.0	150.0	150.0

FLOOD CONTROL CALCULATION (10-YEAR RETURN PERIOD)

* MAX. CONTROL = 370.4 (CM/S)
 * ONTROL CUT D. = 1,553.1 (CM/S)
 * S.CAPACITY = 36,489.3*1000 (CM)

HRS	D.S. INFLOW (CM/S)	C. OUTFLOW (CM/S)	STRAGE (10 ³ CM)	MG. RUN-OFF (CM/S)	ST. RUN-OFF (CM/S)	T. RUN-OFF (CM/S)
0)	50.0	50.0	0.0	110.8	160.8	160.8
2)	64.6	52.8	42.4	159.3	212.1	223.9
4)	124.4	64.3	301.2	293.5	357.9	418.0
6)	265.1	91.4	1,142.8	654.6	746.0	919.7
8)	581.9	152.4	3,314.2	1,762.5	1,915.0	2,344.5
10)	1,423.1	314.4	8,951.4	2,959.7	3,274.2	4,382.8
12)	1,973.5	420.4	18,433.6	2,730.3	3,150.7	4,703.8
14)	1,424.0	420.4	27,637.4	2,048.6	2,469.0	3,472.6
16)	912.6	420.4	33,021.9	1,528.8	1,949.2	2,441.3
18)	632.0	420.4	35,555.1	1,174.9	1,595.4	1,806.9
20)	468.4	420.4	36,489.3	922.2	1,342.6	1,390.6
22)	358.4	420.4	36,438.6	704.3	1,124.7	1,062.7
24)	258.7	420.4	35,632.8	535.5	956.0	794.2
26)	184.3	420.4	34,200.3	429.0	849.4	613.3
28)	143.8	420.4	32,354.4	357.4	777.9	501.3
30)	119.4	420.4	30,274.7	307.0	727.4	426.3
32)	103.4	420.4	28,049.4	270.0	690.5	373.4
34)	92.3	420.4	25,726.8	242.2	662.6	334.5
36)	84.4	420.4	23,336.0	220.7	641.1	305.1
38)	78.6	420.4	20,895.6	203.7	624.1	282.3
40)	74.1	420.4	18,417.9	190.1	610.5	264.2
42)	70.6	420.4	15,911.4	179.0	599.4	249.5
44)	67.8	420.4	13,382.2	169.8	590.3	237.6
46)	65.5	420.4	10,834.7	100.0	520.4	165.5
48)	50.0	420.4	8,223.4	100.0	520.4	150.0

* MAX. CONTROL = 740.9 (CM/S)
 * ONTROL CUT D. = 1,182.6 (CM/S)
 * S.CAPACITY = 23,290.9*1000 (CM)

HRS	D.S. INFLOW (CM/S)	C. OUTFLOW (CM/S)	STRAGE (10 ³ CM)	MG. RUN-OFF (CM/S)	ST. RUN-OFF (CM/S)	T. RUN-OFF (CM/S)
0)	50.0	50.0	0.0	110.8	160.8	160.8
2)	64.6	55.6	32.3	159.3	214.9	223.9
4)	124.4	78.7	229.3	293.5	372.2	418.0
6)	265.1	132.9	870.2	654.6	787.4	919.7
8)	581.9	254.9	2,523.7	1,762.5	2,017.4	2,344.5
10)	1,423.1	578.9	6,740.2	2,959.7	3,538.6	4,382.8
12)	1,973.5	790.9	14,036.9	2,730.3	3,521.1	4,703.8
14)	1,424.0	790.9	20,573.6	2,048.6	2,839.5	3,472.6
16)	912.6	790.9	23,290.9	1,528.8	2,319.6	2,441.3
18)	632.0	790.9	23,157.0	1,174.9	1,965.8	1,806.9
20)	468.4	790.9	21,424.1	922.2	1,713.0	1,390.6
22)	358.4	790.9	18,706.2	704.3	1,495.2	1,062.7
24)	258.7	790.9	15,233.3	535.5	1,326.4	794.2
26)	184.3	790.9	11,133.6	429.0	1,219.9	613.3
28)	143.8	790.9	6,620.6	357.4	1,148.3	501.3
30)	119.4	790.9	1,873.8	307.0	1,097.8	426.3
32)	103.4	790.9	0.0	270.0	1,060.9	373.4
34)	92.3	92.3	0.0	242.2	334.5	334.5
36)	84.4	84.4	0.0	220.7	305.1	305.1
38)	78.6	78.6	0.0	203.7	282.3	282.3
40)	74.1	74.1	0.0	190.1	264.2	264.2
42)	70.6	70.6	0.0	179.0	249.5	249.5
44)	67.8	67.8	0.0	169.8	237.6	237.6
46)	65.5	65.5	0.0	100.0	165.5	165.5
48)	50.0	50.0	0.0	100.0	150.0	150.0

FLOOD CONTROL CALCULATION (10-YEAR RETURN PERIOD)

* MAX. CONTROL = 1,111.3 (CM/S)
 * ONTROL CUT D. = 812.2 (CM/S)
 * S.CAPACITY = 13,560.0*1000 (CM)

HRS	D.S.INFLOW (CM/S)	C.OUTFLOW (CM/S)	STRAGE (10 ³ CM)	MG.RUN-OFF (CM/S)	ST.RUN-OFF (CM/S)	T.RUN-OFF (CM/S)
0)	50.0	50.0	0.0	110.8	160.8	160.8
2)	64.6	58.4	22.2	159.3	217.7	223.9
4)	124.4	93.0	157.5	293.5	386.5	418.0
6)	265.1	174.3	597.6	654.6	828.9	919.7
8)	581.9	357.3	1,733.2	1,762.5	2,119.9	2,344.5
10)	1,423.1	843.3	4,629.0	2,959.7	3,803.0	4,382.8
12)	1,973.5	1,161.3	9,640.2	2,730.3	3,891.6	4,703.8
14)	1,424.0	1,161.3	13,509.8	2,048.6	3,209.9	3,472.6
16)	912.6	1,161.3	13,560.0	1,528.8	2,690.1	2,441.3
18)	632.0	1,161.3	10,759.0	1,174.9	2,336.2	1,806.9
20)	468.4	1,161.3	6,358.9	922.2	2,083.5	1,390.6
22)	358.4	1,161.3	973.9	704.3	1,865.6	1,062.7
24)	258.7	1,161.3	0.0	535.5	1,696.8	794.2
26)	184.3	184.3	0.0	429.0	613.3	613.3
28)	143.8	143.8	0.0	357.4	501.3	501.3
30)	119.4	119.4	0.0	307.0	426.3	426.3
32)	103.4	103.4	0.0	270.0	373.4	373.4
34)	92.3	92.3	0.0	242.2	334.5	334.5
36)	84.4	84.4	0.0	220.7	305.1	305.1
38)	78.6	78.6	0.0	203.7	282.3	282.3
40)	74.1	74.1	0.0	190.1	264.2	264.2
42)	70.6	70.6	0.0	179.0	249.5	249.5
44)	67.8	67.8	0.0	169.8	237.6	237.6
46)	65.5	65.5	0.0	100.0	165.5	165.5
48)	50.0	50.0	0.0	100.0	150.0	150.0

* MAX. CONTROL = 1,481.7 (CM/S)
 * ONTROL CUT D. = 441.8 (CM/S)
 * S.CAPACITY = 6,446.0*1000 (CM)

HRS	D.S.INFLOW (CM/S)	C.OUTFLOW (CM/S)	STRAGE (10 ³ CM)	MG.RUN-OFF (CM/S)	ST.RUN-OFF (CM/S)	T.RUN-OFF (CM/S)
0)	50.0	50.0	0.0	110.8	160.8	160.8
2)	64.6	61.2	12.1	159.3	220.5	223.9
4)	124.4	107.3	85.7	293.5	400.9	418.0
6)	265.1	215.7	325.1	654.6	870.3	919.7
8)	581.9	459.8	942.7	1,762.5	2,222.3	2,344.5
10)	1,423.1	1,107.7	2,517.8	2,959.7	4,067.4	4,382.8
12)	1,973.5	1,531.7	5,243.5	2,730.3	4,262.0	4,703.8
14)	1,424.0	1,531.7	6,446.0	2,048.6	3,580.3	3,472.6
16)	912.6	1,531.7	3,829.1	1,528.8	3,060.5	2,441.3
18)	632.0	1,531.7	0.0	1,174.9	2,706.7	1,806.9
20)	468.4	468.4	0.0	922.2	1,390.6	1,390.6
22)	358.4	358.4	0.0	704.3	1,062.7	1,062.7
24)	258.7	258.7	0.0	535.5	794.2	794.2
26)	184.3	184.3	0.0	429.0	613.3	613.3
28)	143.8	143.8	0.0	357.4	501.3	501.3
30)	119.4	119.4	0.0	307.0	426.3	426.3
32)	103.4	103.4	0.0	270.0	373.4	373.4
34)	92.3	92.3	0.0	242.2	334.5	334.5
36)	84.4	84.4	0.0	220.7	305.1	305.1
38)	78.6	78.6	0.0	203.7	282.3	282.3
40)	74.1	74.1	0.0	190.1	264.2	264.2
42)	70.6	70.6	0.0	179.0	249.5	249.5
44)	67.8	67.8	0.0	169.8	237.6	237.6
46)	65.5	65.5	0.0	100.0	165.5	165.5
48)	50.0	50.0	0.0	100.0	150.0	150.0

FLOOD CONTROL CALCULATION (2-YEAR RETURN PERIOD)

* MAX. CONTROL = 237.3 (CM/S)
 * ONTROL CUT D. = 994.8 (CM/S)
 * S.CAPACITY = 24,731.3*1000 (CM)

HRS	D.S.INFLOW (CM/S)	C.OUTFLOW (CM/S)	STRAGE (10 ³ CM)	MG.RUN-OFF (CM/S)	ST.RUN-OFF (CM/S)	T.RUN-OFF (CM/S)
0)	50.0	50.0	0.0	105.5	155.5	155.5
2)	57.5	51.4	21.8	130.1	181.5	187.6
4)	88.9	57.5	156.7	199.1	256.6	288.1
6)	166.7	72.5	609.1	390.2	462.6	556.9
8)	351.9	108.1	1,825.7	1,003.4	1,111.5	1,355.3
10)	867.0	207.3	5,078.0	1,761.3	1,968.6	2,628.3
12)	1,282.1	287.3	11,034.1	1,770.0	2,057.3	3,052.1
14)	1,014.4	287.3	17,233.1	1,430.7	1,717.9	2,445.1
16)	686.6	287.3	21,288.6	1,123.9	1,411.1	1,810.5
18)	488.5	287.3	23,450.6	895.6	1,182.9	1,384.1
20)	368.5	287.3	24,467.2	712.5	999.8	1,081.0
22)	279.4	287.3	24,731.3	556.5	843.8	836.0
24)	205.2	287.3	24,407.7	442.7	730.0	648.0
26)	155.8	287.3	23,639.0	366.8	654.1	522.6
28)	126.8	287.3	22,587.8	313.7	601.0	440.5
30)	108.3	287.3	21,365.9	275.0	562.3	383.4
32)	95.8	287.3	20,032.4	246.0	533.3	341.8
34)	86.9	287.3	18,622.0	223.7	510.9	310.6
36)	80.4	287.3	17,156.2	206.1	493.4	286.5
38)	75.5	287.3	15,649.3	192.0	479.3	267.5
40)	71.7	287.3	14,110.9	180.6	467.8	252.3
42)	68.7	287.3	12,547.9	171.1	458.4	239.8
44)	66.3	287.3	10,965.3	163.3	450.5	229.5
46)	64.3	287.3	9,366.8	100.0	387.3	164.3
48)	50.0	287.3	7,709.8	100.0	387.3	150.0

* MAX. CONTROL = 474.5 (CM/S)
 * ONTROL CUT D. = 757.5 (CM/S)
 * S.CAPACITY = 15,693.6*1000 (CM)

HRS	D.S.INFLOW (CM/S)	C.OUTFLOW (CM/S)	STRAGE (10 ³ CM)	MG.RUN-OFF (CM/S)	ST.RUN-OFF (CM/S)	T.RUN-OFF (CM/S)
0)	50.0	50.0	0.0	105.5	155.5	155.5
2)	57.5	52.9	16.6	130.1	183.0	187.6
4)	88.9	65.0	119.3	199.1	264.1	288.1
6)	166.7	94.9	463.8	390.2	485.1	556.9
8)	351.9	166.3	1,390.2	1,003.4	1,169.7	1,355.3
10)	867.0	364.7	3,866.8	1,761.3	2,125.9	2,628.3
12)	1,282.1	524.5	8,402.3	1,770.0	2,294.5	3,052.1
14)	1,014.4	524.5	12,892.9	1,430.7	1,955.2	2,445.1
16)	686.6	524.5	15,240.0	1,123.9	1,648.4	1,810.5
18)	488.5	524.5	15,693.6	895.6	1,420.1	1,384.1
20)	368.5	524.5	15,001.9	712.5	1,237.0	1,081.0
22)	279.4	524.5	13,557.6	556.5	1,081.1	836.0
24)	205.2	524.5	11,525.6	442.7	967.3	648.0
26)	155.8	524.5	9,048.5	366.8	891.4	522.6
28)	126.8	524.5	6,289.0	313.7	838.3	440.5
30)	108.3	524.5	3,358.7	275.0	799.6	383.4
32)	95.8	524.5	316.8	246.0	770.6	341.8
34)	86.9	524.5	0.0	223.7	748.2	310.6
36)	80.4	80.4	0.0	206.1	286.5	286.5
38)	75.5	75.5	0.0	192.0	267.5	267.5
40)	71.7	71.7	0.0	180.6	252.3	252.3
42)	68.7	68.7	0.0	171.1	239.8	239.8
44)	66.3	66.3	0.0	163.3	229.5	229.5
46)	64.3	64.3	0.0	100.0	164.3	164.3
48)	50.0	50.0	0.0	100.0	150.0	150.0

FLOOD CONTROL CALCULATION (2-YEAR RETURN PERIOD)

* MAX. CONTROL = 711.8 (CM/S)
 * ONTROL CUT D. = 520.2 (CM/S)
 * S.CAPACITY = 9,191.5*1000 (CM)

HRS	D.S.INFLOW (CM/S)	C.OUTFLOW (CM/S)	STRAGE (10 ³ CM)	MG.RUN-OFF (CM/S)	ST.RUN-OFF (CM/S)	T.RUN-OFF (CM/S)
0)	50.0	50.0	0.0	105.5	155.5	155.5
2)	57.5	54.3	11.4	130.1	184.4	187.6
4)	88.9	72.5	82.0	199.1	271.6	288.1
6)	166.7	117.4	318.5	390.2	507.6	556.9
8)	351.9	224.4	954.8	1,003.4	1,227.8	1,355.3
10)	867.0	522.0	2,655.6	1,761.3	2,283.3	2,628.3
12)	1,282.1	761.8	5,770.5	1,770.0	2,531.8	3,052.1
14)	1,014.4	761.8	8,552.8	1,430.7	2,192.5	2,445.1
16)	686.6	761.8	9,191.5	1,123.9	1,985.7	1,810.5
18)	488.5	761.8	7,936.7	895.6	1,657.4	1,384.1
20)	368.5	761.8	5,536.6	712.5	1,474.3	1,081.0
22)	279.4	761.8	2,384.0	556.5	1,318.4	836.0
24)	205.2	761.8	0.0	442.7	1,204.5	648.0
26)	155.8	155.8	0.0	366.8	522.6	522.6
28)	126.8	126.8	0.0	313.7	440.5	440.5
30)	108.3	108.3	0.0	275.0	383.4	383.4
32)	95.8	95.8	0.0	246.0	341.8	341.8
34)	86.9	86.9	0.0	223.7	310.6	310.6
36)	80.4	80.4	0.0	206.1	286.5	286.5
38)	75.5	75.5	0.0	192.0	267.5	267.5
40)	71.7	71.7	0.0	180.6	252.3	252.3
42)	68.7	68.7	0.0	171.1	239.8	239.8
44)	66.3	66.3	0.0	163.3	229.5	229.5
46)	64.3	64.3	0.0	100.0	164.3	164.3
48)	50.0	50.0	0.0	100.0	150.0	150.0

* MAX. CONTROL = 949.1 (CM/S)
 * ONTROL CUT D. = 283.0 (CM/S)
 * S.CAPACITY = 4,212.6*1000 (CM)

HRS	D.S.INFLOW (CM/S)	C.OUTFLOW (CM/S)	STRAGE (10 ³ CM)	MG.RUN-OFF (CM/S)	ST.RUN-OFF (CM/S)	T.RUN-OFF (CM/S)
0)	50.0	50.0	0.0	105.5	155.5	155.5
2)	57.5	55.8	6.2	130.1	185.9	187.6
4)	88.9	80.0	44.6	199.1	279.1	288.1
6)	166.7	139.9	173.3	390.2	530.1	556.9
8)	351.9	282.5	519.3	1,003.4	1,285.9	1,355.3
10)	867.0	679.4	1,444.4	1,761.3	2,440.6	2,628.3
12)	1,282.1	999.1	3,138.7	1,770.0	2,769.1	3,052.1
14)	1,014.4	999.1	4,212.6	1,430.7	2,429.8	2,445.1
16)	686.6	999.1	3,142.9	1,123.9	2,123.0	1,810.5
18)	488.5	999.1	179.8	895.6	1,894.7	1,384.1
20)	368.5	999.1	0.0	712.5	1,711.6	1,081.0
22)	279.4	279.4	0.0	556.5	836.0	836.0
24)	205.2	205.2	0.0	442.7	648.0	648.0
26)	155.8	155.8	0.0	366.8	522.6	522.6
28)	126.8	126.8	0.0	313.7	440.5	440.5
30)	108.3	108.3	0.0	275.0	383.4	383.4
32)	95.8	95.8	0.0	246.0	341.8	341.8
34)	86.9	86.9	0.0	223.7	310.6	310.6
36)	80.4	80.4	0.0	206.1	286.5	286.5
38)	75.5	75.5	0.0	192.0	267.5	267.5
40)	71.7	71.7	0.0	180.6	252.3	252.3
42)	68.7	68.7	0.0	171.1	239.8	239.8
44)	66.3	66.3	0.0	163.3	229.5	229.5
46)	64.3	64.3	0.0	100.0	164.3	164.3
48)	50.0	50.0	0.0	100.0	150.0	150.0

II HYDROPOWER COMPONENT

MATUNO RIVER DEVELOPMENT PROJECT

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Table -- / Monthly Rainfall at Barat (Salinas) Bambang N.V.

LOCATION		ELEV. (M)
LATITUDE	LONGITUDE	
16°23'	121°06'	

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	TOTAL
1948	*16.9	19.6	4.8	215.9	92.0	49.3	492.0	294.9	421.9	165.1	240.5	214.4	2,227.3
1949	2.0	0	57.9	110.0	71.9	64.8	196.8	284.2	319.3	110.7	48.5	139.2	1,405.3
1950	0	10.4	112.3	62.7	84.3	158.2	112.5	289.8	450.1	250.4	31.0	13.5	1,575.2
1951	0	4.6	16.3	110.0	321.3	161.5	182.9	165.9	95.5	206.2	151.4	49.3	1,464.9
1952	6.9	7.1	84.6	78.0	290.8	211.3	47.5	284.5	180.1	189.7	38.4	155.4	1,574.3
1953	3.6	14.7	58.9	85.6	251.5	245.1	273.8	169.7	132.6	122.2	36.3	167.4	1,561.4
1954	1.5	0.5	104.1	104.1	200.7	5.6	304.8	183.9	109.5	13.2	233.9	3.6	1,265.4
1955	27.4	5.1	35.6	31.5	26.9	54.1	276.9	840.7	172.7	129.3	174.2	54.6	1,829.0
1956	10.2	0	12.7	113.8	71.9	239.3	165.3	185.3	187.9	135.9	238.8	169.4	1,530.5
1957	25.4	0	73.6	107.7	137.2	111.8	176.7	203.5	365.7	169.1	101.6	17.5	1,489.8
1958	15.1	4.9	16.2	75.0	168.2	111.2	94.7	417.3	302.7	328.7	91.7	9.4	1,635.1
1959	15.2	13.2	87.8	55.2	256.2	117.6	175.0	246.8	172.1	*222.2	190.1	77.8	1,629.2
1960	10.3	207.7	3.8	154.3	188.7	274.5	191.7	429.0	337.8	233.1	10.1	14.7	2,055.7
1961	2.0	0	137.0	107.4	124.8	176.3	337.8	123.5	69.0	213.9	130.6	129.1	1,551.4
1962	11.3	0	74.8	118.9	80.3	90.0	336.2	224.2	222.6	21.6	47.6	21.6	1,249.1
1963	14.4	13.7	63.7	*94.6	84.3	165.4	285.2	246.4	205.8	25.4	27.4	98.1	1,326.4
1964	4.5	1.8	11.9	33.8	226.4	156.9	131.5	241.0	259.8	380.0	254.5	139.5	1,841.6
1965	26.4	9.6	39.1	102.7	117.8	61.2	234.9	356.2	190.9	110.2	101.7	33.3	1,384.0
1966	15.8	0	53.3	71.9	450.1	117.4	136.2	303.0	82.9	82.8	198.3	47.9	1,559.6
1967	26.8	0	12.1	79.8	179.3	174.0	157.7	314.9	321.9	214.4	154.6	19.3	1,654.8
1968	36.3	0	38.1	72.4	136.4	20.8	113.1	357.4	220.5	41.5	35.6	27.9	1,100.0

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Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	TOTAL
1969	0	0	38.1	0	94.0	18.5	1,316.8	1,793.2	*245.3	*222.2	*140.0	*78.9	3,947.0
1970	17.8	24.6	9.6	51.3	107.7	223.7	102.1	349.2	326.3	678.5	201.3	*78.9	2,171.0
1971	0	0	37.9	30.5	336.3	183.6	251.5	301.3	435.2	588.7	314.7	302.5	2,782.2
1972	99.1	0	80.7	295.1	171.0	81.3	983.9	433.9	310.1	88.1	170.5	57.6	2,771.3
1973	0	0	0	39.6	69.3	148.2	152.3	413.1	122.1	494.2	173.5	16.8	1,629.1
1974	7.1	0	0	116.9	172.4	0	136.8	164.2	150.2	358.1	266.3	*78.9	1,450.9
1975	31.8	0	49.1	45.3	190.5	101.0	165.7	293.4	219.0	150.2	139.7	144.9	1,530.6
1976	19.1	0	23.4	67.6	904.0	462.4	517.0	197.7	229.7	323.8	69.6	32.1	2,846.4
1977	24.4	30.6	0	64.6	182.2	201.5	151.2	255.1	254.2	90.6	248.2	0	1,502.6
1978	43.8	33.3	52.9	132.0	81.3	439.2	318.2	*339.8	571.4	544.1	108.6	76.4	2,741.0
1979	0	0	26.6	199.1	232.3	297.0	282.3	170.1	301.8	206.8	112.3	61.3	1,889.6
1980	20.5	*13.6	*44.3	*94.6	*190.7	*153.8	*275.0	*339.8	109.4	*222.2	140.0	*78.9	1,682.8
1981	37.9	45.6	*44.3	*94.6	*190.7	*153.8	*275.0	*339.8	*245.3	*222.2	*140.0	*78.9	1,868.1
Total	573.5	462.6	1,505.5	3,216.5	6,483.4	5,230.3	9,351.0	11,552.7	8,341.3	7,555.3	4,761.5	2,684.0	61,722.6
Mean	16.9	13.6	44.3	94.6	190.7	153.8	275.0	339.8	245.3	222.2	140.0	78.9	1,815.1

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NOTE: *FILL-IN DATA USING MEAN FOR THE MONTH

Table - 2 Monthly Rainfall at Sta. Fe. N.V.

Year	LOCATION												TOTAL	
	LATI											LONGI		ELV. (M)
	16° 10'													
Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.			
1948	6.6	51.8	17.0	223.3	218.7	175.8	1,020.8	549.2	505.2	256.8	102.6	244.4	3,372.2	
1949	7.1	4.1	66.3	55.9	63.2	110.5	415.3	313.2	341.1	150.9	120.1	308.9	1,956.6	
1950	23.9	19.6	113.5	83.3	156.5	193.8	419.4	654.8	418.6	399.0	24.1	85.6	2,592.1	
1951	11.7	35.3	33.5	52.8	311.9	194.1	340.9	385.1	299.7	115.3	305.8	100.8	2,186.9	
1952	20.8	20.8	50.8	84.6	240.5	268.2	100.3	438.4	326.4	727.0	27.9	168.4	2,474.1	
1953	38.1	22.8	50.3	147.6	194.1	376.2	296.7	388.6	190.5	151.1	228.1	155.2	2,239.0	
1954	29.2	1.8	97.3	33.8	48.3	93.2	229.9	563.4	182.6	175.0	317.8	46.7	1,819.0	
1955	50.3	15.2	4.6	128.8	191.5	176.5	294.6	271.5	388.4	118.4	171.7	22.6	1,834.1	
1956	28.4	5.8	29.5	262.1	214.0	203.3	268.3	339.7	252.8	284.3	417.1	178.9	2,484.2	
1957	41.0	6.3	104.2	67.8	54.2	312.5	260.0	309.5	271.9	173.3	218.6	52.8	1,872.1	
1958	40.2	4.1	20.2	55.9	217.0	290.4	255.0	313.1	351.3	257.5	98.1	5.9	1,908.9	
1959	26.5	24.1	93.7	23.4	137.1	87.8	182.9	245.4	175.8	95.4	225.5	73.9	1,391.5	
1960	79.9	219.3	68.9	90.2	170.4	279.5	206.4	976.6	447.0	212.0	56.7	17.5	2,824.4	
1961	12.2	11.1	90.7	85.1	139.8	286.0	509.0	304.7	241.6	185.6	80.3	8.7	1,954.8	
1962	20.5	8.4	46.7	73.9	63.3	132.6	606.6	440.4	512.8	137.3	120.6	9.2	2,172.3	
1963	30.3	43.1	5.3	16.5	167.2	628.6	148.2	185.2	432.3	25.7	41.1	151.3	1,874.8	
1964	-	-	-	-	-	-	-	-	-	-	-	-	-	
1965	-	-	-	-	-	-	-	-	-	-	-	-	-	
1966	30.3	21.0	75.7	32.8	758.1	145.3	191.1	268.6	314.7	64.3	456.9	86.4	2,445.2	
1967	7.5	10.0	4.1	80.9	57.8	24.1	11.1	434.3	429.6	314.2	339.7	31.1	1,744.4	
1968	29.0	0.8	26.3	62.4	178.3	102.9	387.4	474.0	564.3	33.4	115.8	2.7	1,977.3	

- continued -

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	TOTAL
1969	3.8	4.8	0	39.4	183.2	138.3	498.8	323.0	334.2	199.5	117.3	50.9	1,893.2
1970	35.8	4.2	46.2	144.8	159.9	408.7	219.3	266.6	480.0	411.5	200.4	105.4	2,482.8
1971	2.5	30.4	25.4	53.3	324.8	279.1	540.8	263.9	286.9	544.8	242.5	152.3	2,746.7
1972	71.0	7.6	52.8	43.2	208.2	214.7	2,047.1	521.2	298.6	0	133.3	39.2	3,636.9
1973	26.8	17.8	22.9	73.6	134.7	210.9	185.4	194.3	380.0	597.1	201.8	39.5	2,084.8
1974	30.4	5.1	85.0	*77.9	178.9	321.4	312.5	*373.8	205.9	982.3	550.2	199.4	3,322.8
1975	104.2	20.6	29.3	27.9	263.2	136.0	137.1	284.8	307.7	256.0	42.0	144.7	1,753.5
1976	95.3	9.0	43.2	82.5	1,311.0	884.5	270.4	292.5	290.0	210.4	44.6	15.8	3,549.2
1977	6.5	7.1	48.3	1.5	184.1	158.7	315.9	260.2	375.6	47.5	275.3	2.5	1,683.2
1978	2.0	3.0	26.7	35.7	116.0	153.5	245.9	644.0	460.0	560.5	131.1	97.4	2,475.8
1979	4.3	0	45.7	83.1	141.4	359.6	240.8	221.8	271.7	277.4	57.8	36.0	1,739.6
1980	22.5	11.6	30.5	90.4	203.7	152.2	774.8	164.6	527.5	138.8	1,037.2	54.8	3,208.6
1981	36.6	22.8	0	85.5	166.7	418.6	639.9	358.9	431.1	211.0	285.7	34.0	2,690.8
1982	6.5	8.9	69.1	69.9	85.3	107.4	455.8	310.2	174.2	166.1	*212.1	*85.1	1,750.6
Total	981.7	678.3	1,523.7	2,569.8	7,243.0	8,025.1	13,028.4	12,335.5	11,470.0	8,479.4	6,999.8	2,808.0	76,142.7
Mean	29.7	20.6	46.2	77.9	219.5	243.2	394.8	373.8	347.6	257.0	212.1	85.1	2,307.5

NOTE: *FILL-IN DATA USING MEAN FOR THE MONTH

Table - 3 Revised Monthly Discharge at Bante G.S.

LOCATION		ELV. (M)
LATI	LONGI	
16° 27'	121° 03'	385.00

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total	Annual Mean
1957	94.84	56.20	55.44	53.60	51.29	52.77	68.41	83.41	124.78	98.00	102.02	72.69	913.45	76.12
1958	62.33	52.30	56.41	58.06	60.99	75.27	80.33	293.35	169.46	324.30	152.77	94.17	1,479.74	123.31
1959	77.11	54.92	68.73	43.18	61.60	46.19	49.52	65.09	98.65	99.53	165.89	188.56	1,018.97	84.91
1960	121.68	128.66	101.46	80.20	75.96	93.55	113.67	268.21	149.07	160.97	89.22	57.21	1,439.86	119.99
1961	38.49	29.42	45.16	37.40	49.76	62.78	79.23	81.58	94.76	168.02	56.45	43.74	786.79	65.57
1962	38.33	32.66	49.52	67.83	57.48	53.73	212.56	130.63	137.27	94.15	173.25	80.11	1,127.52	93.96
1963	59.89	78.60	67.66	49.64	59.84	161.14	132.82	208.17	226.59	127.89	79.70	152.80	1,404.74	117.06
1964	46.93	43.32	58.82	50.36	80.24	111.64	149.70	209.72	174.75	234.55	249.48	199.94	1,609.45	134.12
1965	183.26	95.70	57.21	49.64	59.78	87.74	127.55	73.76	183.51	122.83	85.51	59.01	1,185.50	98.79
1966	73.90	54.14	52.04	34.81	217.41	68.17	76.98	82.04	52.41	44.73	254.07	124.97	1,135.67	94.64
1967	69.10	37.62	25.77	70.04	98.11	223.56	188.85	152.37	182.45	183.79	212.80	50.94	1,495.40	124.62
1968	157.62	30.72	37.74	34.63	45.05	118.27	270.71	191.26	184.21	78.74	37.90	28.55	1,215.40	101.28
1969	22.66	19.31	20.30	21.41	22.20	25.63	108.64	138.34	163.81	160.36	67.65	68.73	839.04	69.91
1970	32.73	21.05	21.27	21.72	21.43	104.02	77.59	151.17	80.43	268.46	190.36	107.08	1,097.31	91.44
1971	66.53	63.33	82.09	51.06	84.91	81.88	120.21	153.45	122.34	334.02	191.26	156.39	1,507.47	125.62
1972	109.57	51.92	42.64	34.68	51.43	65.60	287.04	215.88	264.67	85.84	79.44	57.80	1,346.51	112.21
1973	36.19	30.19	28.63	23.07	37.66	51.11	67.52	79.01	131.23	401.06	203.32	132.88	1,221.87	101.82
1974	76.76	47.73	30.88	31.03	51.77	120.29	175.57	197.32	70.71	122.91	127.38	131.08	1,183.43	98.62
1975	109.04	52.09	42.64	43.99	29.33	29.34	35.92	109.52	211.61	57.99	62.05	80.06	863.58	71.97
1976	89.73	32.52	39.43	43.42	148.89	172.24	151.20	127.64	85.15	89.43	61.95	37.47	1,078.87	89.91
Total-1,566.69	1,012.40	983.84	899.77	1,365.13	1,804.92	2,574.02	3,011.72	2,907.86	3,257.57	2,642.47	1,924.18	23,950.57		
Mean -	78.33	50.62	49.19	44.99	68.26	90.25	128.70	150.59	145.39	162.88	132.12	96.21	1,197.53	37.97

Table - 4 Monthly Discharge at A-Dam Site*

Year	(Catchment Area: 526 km ²)												Annual Mean	
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.		
1957	33.39	21.91	19.52	19.50	18.06	19.20	24.08	29.37	45.40	34.50	37.12	25.59	327.64	27.30
1958	21.94	20.39	19.86	21.12	21.47	27.38	28.28	105.04	61.65	114.18	55.58	33.16	520.05	44.17
1959	27.15	21.41	24.20	16.71	21.69	16.80	17.44	22.91	35.89	35.04	60.35	66.39	364.98	30.42
1960	42.84	48.42	35.72	29.18	26.84	34.04	40.02	94.43	54.23	56.67	32.46	20.14	514.88	42.91
1961	13.55	11.47	15.90	13.61	17.52	22.84	27.89	28.72	34.48	59.15	20.54	15.40	281.07	23.42
1962	13.49	12.73	17.44	24.68	20.24	19.55	74.84	45.99	49.94	33.15	63.03	28.21	403.29	33.61
1963	21.09	30.64	23.82	18.06	21.07	58.63	46.76	73.29	82.44	45.03	29.00	53.80	503.63	41.97
1964	16.52	16.30	20.71	18.32	28.25	40.62	52.70	73.84	63.58	82.58	90.76	70.39	574.57	47.88
1965	64.52	37.31	20.14	18.06	21.05	31.92	44.91	25.97	66.76	43.25	31.11	20.77	425.77	35.48
1966	26.02	21.10	18.32	12.66	76.54	24.80	27.10	28.88	19.07	15.75	92.43	44.00	406.67	33.90
1967	24.33	14.66	9.07	25.48	34.54	81.33	66.49	53.65	66.38	64.71	77.42	17.94	536.00	44.67
1968	55.50	11.56	13.29	12.60	15.86	43.03	95.31	67.34	67.02	27.72	13.79	10.05	433.07	36.09
1969	7.98	7.53	7.15	7.79	7.81	9.33	38.25	48.71	59.60	56.46	24.61	24.20	299.42	24.95
1970	11.52	8.20	7.49	7.90	7.54	37.84	27.32	53.22	29.26	94.52	69.25	37.70	391.76	32.65
1971	23.42	24.69	28.90	18.58	29.89	29.79	42.32	54.02	44.51	117.60	69.77	55.06	538.55	44.88
1972	38.58	19.54	15.01	12.62	18.11	23.87	101.06	76.01	96.29	30.22	28.90	20.35	480.56	40.05
1973	12.74	11.77	10.08	8.39	13.26	18.60	23.77	27.82	47.74	141.20	73.97	46.78	436.12	36.34
1974	27.03	18.61	10.87	11.29	18.23	43.76	61.81	69.47	25.73	43.27	46.25	46.15	422.47	35.21
1975	38.39	20.30	15.01	16.00	10.33	10.67	12.65	38.56	76.99	20.42	22.58	28.19	310.09	25.84
1976	31.59	12.24	13.88	15.80	52.42	62.66	53.23	44.81	30.98	31.49	22.54	13.19	384.89	32.07
Total	551.59	390.78	346.38	327.35	480.62	656.65	906.23	1,062.23	1,057.94	1,146.91	961.46	677.46	2,565.48	713.81
Mean	27.58	19.54	17.32	16.37	24.03	32.83	45.31	53.11	52.90	57.35	48.07	33.87	428.28	35.69

* Converted from Bante discharges by multiplying the catchment area ratio of 0.943.

Table - 5. Monthly Discharge at A-Dam-site

Catchment Area = 526 km² (MCV)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total	Annual Mean
1957	89.43	53.00	52.28	50.54	48.37	49.76	64.51	78.66	117.67	92.41	96.20	68.55	861.38	71.78
1958	58.78	49.32	53.19	54.75	57.51	70.98	75.75	276.63	159.80	305.81	144.06	88.80	1,395.38	116.28
1959	72.71	51.79	64.81	40.72	58.09	43.56	46.70	61.38	93.03	93.86	156.43	177.81	960.89	80.07
1960	114.74	121.33	95.68	75.63	71.63	88.22	107.19	252.92	140.57	151.79	84.13	53.95	1,357.78	113.15
1961	36.30	27.74	42.59	35.27	46.92	59.20	74.71	76.93	89.36	158.44	53.23	41.25	741.94	61.83
1962	36.15	30.80	46.70	63.96	54.20	50.67	200.44	123.18	129.45	88.78	163.37	75.54	1,063.24	88.60
1963	56.48	74.12	63.80	46.81	56.43	151.96	125.25	196.30	213.67	120.60	75.16	144.09	1,324.67	110.39
1964	44.25	40.85	55.47	47.49	75.67	105.28	141.17	197.77	164.79	221.18	235.26	188.54	1,517.72	126.48
1965	172.81	90.25	53.95	46.81	56.37	82.74	120.28	69.56	173.05	115.83	80.64	55.65	1,117.94	93.16
1966	69.69	51.05	49.07	32.83	205.02	64.28	72.59	77.36	49.42	42.18	239.59	117.85	1,070.93	89.24
1967	65.16	35.48	24.30	66.05	92.52	210.82	178.09	143.68	172.05	173.31	200.67	48.04	1,410.17	117.51
1968	148.64	28.97	35.59	32.66	42.48	111.53	255.28	180.36	173.71	74.25	35.74	26.92	1,146.13	95.51
1969	21.37	18.21	19.14	20.19	20.93	24.17	102.45	130.45	154.47	151.22	63.79	64.81	791.20	65.93
1970	30.86	19.85	20.06	20.48	20.21	98.09	73.17	142.55	75.85	253.16	179.51	100.98	1,034.77	86.23
1971	62.74	59.92	77.41	48.15	80.07	77.21	113.36	144.70	115.37	314.98	180.36	147.48	1,421.55	118.46
1972	103.32	48.96	40.21	32.70	48.50	61.86	270.68	203.57	249.58	80.95	74.91	54.51	1,269.75	105.81
1973	34.13	28.47	27.00	21.76	35.51	48.20	63.67	74.51	123.75	378.20	191.73	125.31	1,152.24	96.02
1974	72.38	45.01	29.12	29.26	48.82	113.43	165.57	186.07	66.68	115.90	120.12	123.61	1,115.97	93.00
1975	102.82	49.12	40.21	41.48	27.66	27.67	33.87	103.28	199.55	54.68	58.51	75.50	814.35	67.86
1976	84.62	30.67	37.18	40.95	140.40	162.42	142.58	120.18	80.30	84.33	58.42	35.33	1,017.38	84.78
Total	-1,477.38	954.71	927.76	848.49	1,287.31	1,702.05	2,427.31	2,840.04	2,742.12	3,071.86	2,491.83	1,814.52	22,585.38	
Mean	-	73.87	47.74	42.42	64.37	85.10	121.37	142.00	137.11	153.59	124.59	90.73	1,129.28	35.81

Table - 6 Monthly Discharge at B₁-Damsite

Catchment Area = 550 km² (MCM)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total	Annual Mean
1957	93.51	55.41	54.66	52.85	50.57	52.03	67.45	82.24	123.03	96.63	100.59	71.67	900.64	75.05
1958	61.46	51.57	55.52	57.25	60.14	74.22	79.21	289.24	167.09	319.76	150.63	92.85	1,458.94	121.58
1959	76.03	54.15	67.77	42.58	60.74	45.54	48.83	64.18	97.27	98.14	163.57	185.92	1,004.72	83.73
1960	119.98	126.86	100.04	79.08	74.90	92.24	112.08	264.46	146.98	158.72	87.97	56.41	1,419.72	118.31
1961	37.95	29.01	44.53	36.88	49.06	61.90	78.12	80.44	93.43	165.67	55.66	43.13	775.78	64.65
1962	37.79	32.20	48.83	66.88	56.68	52.98	209.58	128.80	135.35	92.83	170.82	78.99	1,111.73	92.64
1963	59.05	77.50	66.71	48.95	59.00	158.88	130.96	205.26	223.42	126.10	78.58	150.66	1,385.07	115.42
1964	46.27	42.71	58.00	49.66	79.12	110.08	147.60	206.78	172.30	231.27	245.99	197.14	1,586.92	132.24
1965	180.69	94.36	56.41	48.95	58.94	86.51	125.76	72.73	180.94	121.11	84.31	58.18	1,168.89	97.41
1966	72.87	53.38	51.31	34.32	214.37	67.22	75.90	80.89	51.68	44.10	250.51	123.22	1,119.77	93.31
1967	68.13	37.09	25.41	69.06	96.74	220.43	186.21	150.24	179.90	181.22	209.82	50.23	1,474.48	122.87
1968	155.41	30.29	37.21	34.15	44.42	116.61	266.92	188.58	181.63	77.64	37.37	28.15	1,198.38	99.87
1969	22.34	19.04	20.02	21.11	21.89	25.27	107.12	136.40	161.52	158.11	66.70	67.77	827.29	68.94
1970	32.27	20.76	20.97	21.42	21.13	102.56	76.50	149.05	79.30	264.70	187.69	105.58	1,081.93	90.16
1971	65.60	62.44	80.94	50.35	83.72	80.73	118.53	151.30	120.63	329.34	188.58	154.20	1,486.36	123.86
1972	108.04	51.19	42.04	34.19	50.71	64.68	283.02	212.86	260.96	84.64	78.33	56.99	1,327.65	110.64
1973	35.68	29.77	28.23	22.75	37.13	50.39	66.57	77.90	129.39	395.45	200.47	131.02	1,204.75	100.40
1974	75.69	47.06	30.45	30.60	51.05	118.61	173.11	194.56	69.72	121.19	125.60	129.24	1,166.88	97.24
1975	107.51	51.36	42.04	43.37	28.92	28.93	35.42	107.99	208.65	57.18	61.18	78.94	851.49	70.96
1976	88.47	32.06	38.88	42.81	146.81	169.83	149.08	125.66	83.96	88.18	61.08	36.95	1,063.77	88.65
total	1,544.74	998.21	969.97	887.21	1,346.04	1,779.64	2,537.97	2,969.56	2,867.15	3,211.98	2,605.45	1,897.24	23,615.16	
Mean	77.24	49.91	48.50	44.36	67.30	88.98	126.90	149.48	143.36	160.60	130.27	94.86	1,180.76	37.44

Table — 2 Monthly Discharge at Bi Damsite
(Catchment Area: 550 km²)

(m³/sec)

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Total	Annual Mean
1957	34.90	22.90	20.41	20.39	18.88	20.07	25.18	30.70	47.47	36.08	38.81	26.76	342.55	28.55
1958	22.94	21.32	20.77	22.09	22.45	28.63	29.57	109.83	64.46	119.38	58.11	34.67	554.22	46.19
1959	28.39	22.38	25.30	16.43	22.68	17.57	18.23	23.96	37.48	36.64	63.10	69.41	381.57	31.80
1960	44.79	50.63	37.35	30.51	27.96	35.58	41.84	98.74	56.70	59.26	33.94	21.06	538.36	44.86
1961	14.17	11.99	16.62	14.23	18.32	23.88	29.17	30.03	36.05	61.85	21.48	16.10	293.89	24.49
1962	14.11	13.31	18.23	25.80	21.16	20.44	78.25	48.08	52.22	34.66	65.90	29.49	421.65	35.14
1963	22.05	32.04	24.91	18.88	22.03	61.30	48.90	76.63	86.20	47.08	30.32	56.25	526.59	43.88
1964	17.27	17.05	21.65	19.16	29.54	42.47	55.11	77.20	66.48	86.34	94.90	73.60	600.77	50.06
1965	67.46	39.01	21.06	18.88	22.01	33.38	46.95	27.15	69.81	45.22	32.53	21.72	445.18	37.10
1966	27.20	22.07	19.16	13.24	80.03	25.93	28.34	30.20	19.94	16.47	96.65	46.01	425.24	35.44
1967	25.44	15.33	9.49	26.64	36.12	85.04	69.52	56.09	69.40	67.66	80.95	18.75	560.43	46.70
1968	58.03	12.09	13.89	13.17	16.58	44.99	99.66	70.41	70.08	28.99	14.42	10.51	452.82	37.74
1969	8.34	7.87	7.47	8.14	8.17	9.75	39.99	50.93	62.32	59.03	25.73	25.30	313.04	26.09
1970	12.05	8.58	7.83	8.26	7.89	39.57	28.56	55.65	30.60	98.83	72.41	39.42	409.65	34.14
1971	24.49	25.81	30.22	19.42	31.26	31.15	44.25	56.49	46.54	122.96	72.93	57.57	563.09	46.92
1972	40.34	20.43	15.70	13.19	18.93	24.96	105.67	79.47	100.68	31.60	30.22	21.28	502.47	41.87
1973	13.33	12.31	10.54	8.78	13.86	19.44	24.86	29.09	49.92	147.64	77.34	48.92	456.03	38.00
1974	28.26	19.45	11.37	11.80	19.06	45.76	64.63	72.64	26.90	45.25	48.36	48.25	441.73	36.81
1975	40.14	21.23	15.70	16.73	10.80	11.16	13.22	40.32	80.50	21.35	23.60	29.47	324.22	27.02
1976	33.03	12.80	14.51	16.52	54.81	65.52	55.66	46.91	32.39	32.92	23.57	13.79	402.43	33.54
Total	576.73	408.60	362.18	342.26	502.54	686.59	947.56	1,110.52	1,106.16	1,199.21	1,005.27	708.33	8,955.93	
Mean	28.84	20.43	18.11	17.11	25.13	34.33	47.38	55.53	55.31	59.96	50.26	35.42		37.32

* Converted from Bante discharges by multiplying the catchment area ratio of 0.986

Table - 8 Revised Monthly Discharge at Bato G.S.

LOCATION		ELV. (M)
LATI	LONGI	

16°25'55" | 121°07'01"

(m³/sec)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total	Annual Mean
1960	72.34	96.88	60.10	49.65	45.69	64.44	83.26	219.97	141.43	139.07	55.69	33.40	1,061.92	88.49
1961	22.65	17.36	27.06	20.23	29.09	42.31	73.77	74.32	87.20	131.79	50.72	28.19	604.69	50.39
1962	22.75	18.73	30.34	39.96	41.56	41.84	151.92	102.45	130.89	58.75	116.45	46.86	802.50	66.88
1963	35.25	50.59	38.44	28.18	33.55	112.95	97.31	156.14	169.09	89.31	59.12	94.08	964.01	80.33
1964	32.39	27.05	32.89	28.65	46.53	68.36	93.97	131.06	118.02	146.41	196.23	146.06	1,067.62	88.97
1965	113.53	74.39	33.14	29.21	34.98	53.34	81.33	44.75	117.90	78.61	60.32	52.27	773.77	64.48
1966	42.44	33.58	28.63	18.56	161.20	65.77	71.62	76.60	50.58	28.45	176.50	116.66	870.60	72.55
1967	64.53	38.89	24.08	67.57	91.59	182.80	118.83	119.55	152.65	120.47	154.71	44.81	1,180.48	98.37
1968	97.25	27.95	28.45	25.78	25.13	72.67	165.80	146.99	172.86	73.51	36.23	23.75	896.37	74.70
1969	18.36	9.43	8.73	10.17	14.57	16.82	64.14	82.75	102.18	102.75	39.84	39.45	509.19	42.43
1970	30.50	11.61	9.35	10.08	9.44	89.28	63.48	116.63	65.64	164.38	119.39	63.17	752.95	62.75
1971	37.94	40.25	48.56	33.55	66.12	66.55	80.61	93.17	77.20	205.50	120.27	94.08	963.80	80.32
1972	64.71	33.21	30.31	21.81	31.95	44.83	209.17	178.32	174.93	49.85	54.36	32.75	926.20	77.18
1973	20.02	19.61	17.31	10.97	19.62	29.51	38.39	45.55	81.05	257.49	127.79	79.33	746.64	62.22
1974	44.15	29.17	17.34	17.16	28.60	90.05	113.57	119.78	53.48	77.04	78.40	79.64	748.38	62.37
1975	64.38	32.17	22.75	24.51	14.39	15.03	18.55	64.69	133.15	32.35	36.21	46.22	504.40	42.03
1976	52.27	17.83	20.76	24.15	89.39	107.64	90.79	75.93	51.19	52.10	36.15	19.51	637.71	53.14
Total	835.46	578.7	478.24	460.20	783.40	1,164.19	1,616.51	1,848.65	1,879.44	1,807.83	1,518.38	1,040.23		1,167.60
Mean	49.14	34.04	28.13	27.07	46.08	68.48	95.09	108.74	110.56	106.34	89.32	61.19	824.18	68.68

Table - 9 Monthly Discharge at Oscariz, Magat River

Year	Catchment Area = 4,150 km ² (MCM)												Annual Mean	
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Total
1948	131.3	338.8	64.3	725.2	402.0	341.9	1,508.8	522.6	1,686.1	753.1	313.4	1,468.6	8,256.1	688.01
1949	345.7	164.6	217.1	385.9	101.8	217.6	321.6	439.5	745.9	584.2	398.9	991.6	4,914.4	409.53
1950	482.4	254.1	375.2	194.2	852.2	515.4	517.2	691.4	898.7	1,444.5	476.6	337.7	7,039.6	586.63
1951	345.7	249.4	222.4	220.2	624.4	450.7	546.7	970.2	960.9	921.9	859.9	629.8	7,002.2	583.52
1952	281.4	215.9	139.4	209.8	348.4	264.2	243.9	804.0	792.5	1,176.5	525.8	720.9	5,722.7	476.89
1953	327.0	222.6	142.0	253.8	573.5	1,243.2	908.5	1,152.4	935.0	846.9	722.6	1,061.3	8,388.8	699.07
1954	343.0	135.5	195.6	199.4	107.2	134.7	270.7	402.0	585.3	498.5	862.5	286.8	4,021.2	335.10
1955	501.2	183.9	115.2	108.8	227.8	191.7	318.9	450.2	707.1	715.6	1,015.3	458.3	4,994.0	416.17
1956	227.8	138.1	155.4	932.4	498.5	202.0	573.5	485.1	396.3	616.4	1,510.0	994.3	6,729.8	560.82
1957	305.5	147.6	506.5	354.8	126.0	367.8	335.0	509.2	1,305.4	913.9	678.6	227.8	5,778.1	481.51
1958	158.1	84.7	117.9	142.4	174.2	362.6	222.4	897.8	1,282.1	1,144.4	494.7	241.2	5,322.5	443.54
1959	131.3	111.3	1,007.7	189.1	286.8	142.4	128.6	243.9	378.1	351.1	694.1	273.4	3,937.8	328.15
1960	214.4	655.1	268.0	243.5	201.0	344.5	442.2	801.3	999.7	943.4	246.1	206.4	5,565.6	463.80
1961	123.3	70.2	150.1	147.6	241.2	360.0	964.8	876.4	810.7	763.8	375.6	131.3	5,015.0	417.92
1962	203.7	205.7	292.1	251.2	203.7	385.9	1,047.9	873.7	774.4	619.1	841.8	436.8	6,136.0	511.33
1963	251.9	416.2	203.7	124.2	96.5	531.0	865.6	1,549.0	929.8	383.2	284.9	490.4	6,126.4	510.53
1964	235.8	215.9	179.6	93.2	257.3	378.1	919.2	1,307.8	968.7	1,688.4	1,642.1	884.4	8,770.5	730.88
1965	321.6	372.7	187.6	463.6	385.9	411.8	640.5	611.0	831.4	608.4	476.6	335.0	5,646.1	470.51
1966	284.1	159.7	273.4	264.2	1,361.4	533.5	466.3	452.9	546.5	420.8	808.1	758.4	6,329.3	551.12
1967	399.3	171.8	37.5	189.1	216.9	385.9	712.9	1,168.5	1,996.9	1,744.7	1,305.4	525.3	8,854.2	737.85
1968	444.9	278.6	233.2	227.9	348.4	606.1	643.2	1,350.7	1,440.0	718.2	279.7	225.1	6,796.0	566.33
1969	184.9	111.3	72.4	116.6	152.8	287.5	699.5	696.8	559.4	895.1	427.4	418.1	4,621.8	385.15
1970	533.3	225.0	166.2	196.8	294.8	660.4	335.0	779.9	1,274.3	2,283.4	2,551.2	1,005.0	10,305.3	858.78
*1971	501.2	425.9	482.4	269.4	544.0	709.7	1,563.2	747.7	1,476.3	2,789.9	1,497.0	1,533.0	12,549.7	1,045.81
1972	1,034.5	459.3	324.3	494.7	782.6	*419.4	*633.6	*782.7	*970.1	*992.7	*803.7	*610.0	8,307.6	692.30
Total	8,313.3	6,013.9	6,129.2	6,998.0	9,409.3	10,448.0	15,839.7	19,566.7	24,251.6	24,818.1	20,092.0	15,250.9	167,130.7	13,951.25
Mean	332.53	240.56	245.17	279.92	376.37	417.92	633.59	782.67	970.06	992.72	803.68	610.04		558.05

NOTE: * FILL-IN DATA USING MEAN FOR THE MONTH

Table 10-1. Daily Discharge Records (Original) at Bante U.S.

(1957) (m³/sec.)

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
1	49.60	25.59	21.60	24.45	19.05	17.01	27.30	28.60	29.90	29.90	27.95	27.30
2	52.30	25.59	21.60	23.88	18.54	17.01	24.45	27.30	31.20	27.95	27.30	27.30
3	51.40	25.02	21.60	23.31	18.54	17.01	21.60	27.95	31.20	28.60	26.73	27.30
4	49.60	24.45	21.09	22.74	18.54	17.52	22.74	26.16	46.36	29.25	25.02	27.30
5	47.92	24.45	21.09	22.74	18.54	17.52	22.17	24.45	44.02	28.60	24.45	27.30
6	45.58	24.45	21.09	21.60	18.54	17.01	21.60	23.88	37.35	29.90	24.45	27.30
7	44.02	24.45	21.09	21.09	18.54	25.02	21.60	23.88	78.06	46.36	24.45	27.30
8	41.68	24.45	21.09	20.58	18.54	19.05	21.60	23.88	76.84	42.46	24.45	27.30
9	39.48	24.45	21.09	21.60	18.54	19.05	21.60	26.73	68.30	40.19	24.45	27.30
10	38.06	23.88	20.58	20.58	18.54	19.05	21.60	26.16	60.88	37.35	24.45	27.30
11	36.64	23.88	20.58	21.09	18.54	19.05	21.60	26.16	55.90	35.22	24.45	27.95
12	35.93	23.88	20.58	24.45	18.54	18.03	21.60	25.59	48.70	37.35	81.88	27.30
13	35.22	23.31	20.58	22.17	18.54	18.03	26.16	25.02	55.90	39.48	91.54	27.30
14	33.80	23.31	20.58	21.09	18.54	18.03	29.25	24.45	64.06	43.24	83.26	27.30
15	33.80	22.74	20.58	20.58	18.03	16.50	35.22	24.45	57.70	45.58	70.74	27.30
16	33.15	22.74	20.58	20.58	18.03	16.50	31.85	26.16	54.10	44.80	60.88	27.30
17	32.50	22.74	20.07	20.07	18.03	16.50	30.55	27.30	53.20	44.02	55.90	27.30
18	33.15	22.74	20.07	19.05	18.03	16.50	30.55	29.25	55.00	44.80	48.70	27.30
19	31.85	22.74	20.07	19.05	18.03	16.50	29.90	47.92	55.90	42.46	44.02	27.30
20	30.55	22.17	20.07	19.05	18.03	18.03	26.73	47.14	57.70	44.02	40.19	27.30
21	29.25	22.17	20.07	19.05	19.05	17.52	21.60	46.36	54.10	41.68	38.06	27.30
22	28.60	21.60	19.05	19.05	19.05	17.52	21.60	45.58	46.36	39.48	36.64	27.30
23	27.95	21.60	19.05	19.05	23.31	17.52	21.60	44.02	44.80	37.35	34.51	27.30
24	27.30	21.60	19.05	19.05	25.59	40.19	21.60	41.68	39.48	35.22	33.15	27.30
25	27.30	21.60	19.05	19.05	25.02	38.06	26.16	36.64	35.93	33.80	32.50	27.30
26	27.30	21.60	21.60	19.05	21.60	27.30	24.45	32.50	33.15	35.22	29.90	26.73
27	27.30	21.60	21.60	19.05	19.56	26.16	26.16	30.55	32.50	33.15	29.25	26.73
28	27.30	21.60	21.60	19.05	20.58	21.60	28.60	31.20	32.50	33.15	31.85	26.16
29	26.73	21.60	21.60	19.05	18.03	24.45	30.55	33.80	31.20	33.15	30.55	26.16
30	26.16	21.60	21.60	19.05	16.50	21.60	29.90	30.55	31.85	31.20	29.25	36.16
31	26.16		21.60	19.05	17.01	29.90	29.90	29.90		29.25		26.16
Total	1,097.58	650.40	641.55	620.25	593.55	610.84	791.79	965.21	1444.14	1134.18	1180.92	841.25
Mean	35.41	23.23	20.70	20.68	19.15	20.26	25.54	31.14	48.14	36.59	39.36	27.14

Table 10-2. Daily Discharge Records (Original) at Bante G.S.

DAY	(1958)											
	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
1	25.59	21.60	22.17	26.16	23.31	27.30	24.45	70.74	65.12	76.84	57.70	40.90
2	25.59	21.60	23.31	26.16	23.88	26.73	24.45	296.22	60.88	169.96	57.70	38.77
3	25.59	21.60	22.74	25.59	23.31	25.59	24.45	299.38	56.80	152.76	57.70	37.35
4	25.59	21.60	22.17	23.31	22.17	24.45	24.45	266.69	50.50	125.90	57.70	37.35
5	25.59	21.60	21.60	19.56	21.60	23.31	24.45	234.58	49.60	76.84	56.80	37.35
6	25.59	21.60	21.60	19.05	21.60	21.60	24.45	190.12	48.70	68.30	54.10	37.35
7	25.02	21.60	21.09	19.05	21.60	20.58	24.45	161.06	51.40	71.96	53.20	37.35
8	25.02	21.60	21.09	18.05	21.08	29.90	24.45	144.86	55.00	75.62	55.00	37.35
9	25.02	21.60	21.09	19.05	21.09	35.22	24.45	121.16	57.70	81.88	60.88	37.35
10	24.45	21.60	20.58	19.05	20.58	36.64	24.45	110.10	55.00	83.26	67.24	36.64
11	24.45	21.60	20.58	19.05	20.58	38.77	33.15	110.10	49.60	192.59	76.84	35.93
12	23.88	21.60	20.58	19.05	19.56	37.35	34.51	110.10	48.70	169.96	80.50	35.22
13	23.88	22.17	20.58	19.05	19.05	35.93	33.15	95.46	48.70	136.96	83.26	35.22
14	23.31	22.17	20.07	19.05	19.05	34.51	29.90	83.26	49.60	99.52	76.84	33.80
15	22.74	22.17	20.07	32.50	19.05	34.51	27.30	80.50	48.70	83.26	69.52	33.80
16	22.17	21.60	20.07	33.15	19.05	35.93	27.30	80.50	48.70	70.74	65.12	33.80
17	21.60	21.60	19.56	29.25	19.05	34.51	26.16	75.62	48.70	61.94	60.88	33.80
18	21.60	21.60	19.56	25.02	19.05	32.50	26.16	69.52	48.70	56.80	57.70	33.80
19	21.60	21.60	19.56	22.17	19.05	31.20	26.73	67.24	52.30	50.50	57.70	33.80
20	21.60	21.60	19.56	21.60	19.05	29.90	31.85	60.88	59.82	48.70	57.70	33.80
21	21.60	21.60	19.56	21.60	18.54	27.95	35.93	55.90	71.96	48.70	57.70	33.80
22	21.60	21.60	19.56	21.60	18.54	26.73	40.19	52.30	83.26	159.28	56.80	33.80
23	21.60	21.60	19.56	21.60	18.54	26.16	37.35	47.14	95.46	299.38	55.90	33.80
24	21.60	21.60	19.05	21.60	18.54	25.59	33.80	47.14	99.52	244.46	55.00	33.80
25	21.60	21.60	19.05	21.60	18.54	25.02	33.80	54.10	90.16	187.65	53.20	33.80
26	21.60	21.60	19.05	21.60	19.05	25.59	33.80	63.00	118.00	200.00	47.92	33.80
27	22.17	21.09	19.05	21.60	35.93	24.45	33.80	64.06	90.16	289.99	46.36	33.80
28	24.45	21.09	19.05	21.60	40.19	24.45	33.80	81.88	94.88	149.60	44.00	33.80
29	22.17		21.60	21.60	39.48	24.45	33.80	88.78	83.26	87.40	44.80	33.15
30	21.60		31.20	21.60	34.51	24.45	33.80	81.88	80.50	71.96	41.68	33.15
31	21.60		28.60		31.20	24.45	38.77	88.78		60.88		32.50
Total	721.47	605.49	652.96	671.92	724.88	836.37	929.55	3,453.05	1961.38	3,753.59	1768.24	1,089.93
Mean	23.27	21.62	21.06	22.40	23.38	27.88	29.99	111.39	65.38	121.08	58.94	35.16

Table 10-3. Daily Discharge Records (Original) at Bante G.S.

DAY	(1959)											
	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
1	32.50	23.31	25.02	19.05	16.05	18.03	18.03	25.02	40.19	43.24	25.59	73.18
2	32.50	23.31	27.30	18.54	18.03	18.03	19.05	24.45	38.77	40.90	25.59	68.30
3	31.85	23.31	32.50	18.54	16.50	18.03	18.03	22.74	41.68	43.24	26.16	68.30
4	31.85	22.74	35.93	18.54	15.60	18.03	19.56	22.74	37.35	44.80	26.16	68.30
5	31.85	22.74	38.06	18.54	15.60	18.03	18.03	22.74	36.64	44.80	27.30	78.06
6	31.85	22.74	35.22	18.54	17.52	18.54	18.03	22.74	33.80	43.24	26.73	75.62
7	30.55	22.74	32.50	18.54	19.56	17.01	18.03	22.17	32.50	42.46	26.73	79.28
8	30.55	22.74	29.90	18.54	20.58	15.60	18.03	21.09	33.80	40.90	26.73	122.74
9	30.55	21.60	26.73	18.54	19.56	13.80	18.03	22.17	35.93	38.06	27.95	87.40
10	31.20	21.60	23.88	18.54	18.03	13.80	18.03	19.56	37.35	38.06	28.60	78.06
11	29.90	26.16	23.88	17.01	18.03	13.80	16.50	19.05	38.77	38.06	29.90	68.30
12	29.25	32.50	23.31	17.01	21.60	13.80	16.50	19.05	39.48	38.06	30.55	68.30
13	29.25	35.93	23.31	17.01	23.31	13.80	16.50	19.05	44.02	37.35	30.55	68.30
14	28.60	27.95	22.74	17.01	25.02	13.80	16.50	19.56	36.64	37.35	31.85	71.96
15	29.25	27.17	22.74	17.01	26.16	15.60	15.15	19.05	29.90	38.77	65.12	67.24
16	29.90	20.58	25.59	17.01	25.59	13.80	14.25	19.05	26.73	38.77	83.26	63.00
17	28.60	20.58	28.60	16.05	25.02	13.80	14.25	21.09	25.02	40.90	274.10	63.00
18	27.95	20.58	29.90	16.05	23.31	13.80	14.25	20.07	25.59	45.56	224.70	71.96
19	27.95	20.58	26.73	16.05	26.73	13.80	14.25	22.17	25.59	42.46	110.10	68.30
20	27.95	20.58	24.45	17.52	29.90	15.60	14.25	21.60	25.59	39.48	78.06	69.52
21	27.95	20.58	22.74	16.50	33.15	15.60	15.60	22.17	25.59	33.80	63.00	73.18
22	27.30	20.07	22.74	16.05	35.93	13.80	18.54	22.17	26.16	32.50	55.00	79.28
23	27.30	20.07	22.17	17.01	33.80	15.60	22.17	22.17	30.55	31.85	54.10	78.06
24	27.30	20.07	22.17	15.60	31.85	13.80	22.74	23.88	43.24	31.85	60.68	75.62
25	27.30	19.05	21.60	13.80	29.25	13.80	23.88	24.45	57.20	31.85	71.96	66.18
26	27.95	19.05	21.60	13.85	25.59	13.80	23.31	28.60	70.74	31.85	79.28	58.76
27	26.73	19.05	24.45	13.35	23.31	13.80	21.09	30.55	56.80	29.25	81.88	55.00
28	25.59	23.31	21.09	13.35	20.58	13.80	20.58	34.51	52.30	28.60	71.96	54.10
29	23.88		19.56	13.35	22.17	23.31	21.30	33.80	53.20	28.60	76.84	54.10
30	23.88		19.56	13.80	18.03	18.54	23.31	42.46	44.80	28.60	79.28	53.20
31	23.31		19.56		17.52		25.02	43.24		26.73		55.90
Total	892.34	635.69	95.53	518.34	712.88	466.86	573.09	753.16	1,141.92	1,151.96	1919.91	2,182.50
Mean	28.79	22.70	25.66	17.28	23.00	15.56	18.49	24.30	38.06	37.16	64.00	70.40

Table 10-7. Daily Discharge Records (Original) at Bante G.S.

DAY	(1960)											
	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
1	53.20	37.35	70.06	29.90	26.73	29.90	67.24	36.64	57.70	36.64	37.35	25.00
2	53.20	36.64	68.30	31.85	26.16	29.90	61.94	34.51	61.94	36.64	37.35	23.80
3	53.20	36.64	68.30	31.85	26.16	30.55	56.80	33.80	63.00	38.06	37.35	22.00
4	53.20	36.64	64.06	33.15	26.16	31.85	50.50	34.51	67.24	36.64	37.35	21.00
5	53.20	36.64	63.00	36.64	26.16	31.85	44.02	36.64	74.40	37.35	36.64	21.00
6	55.00	36.64	53.20	39.48	23.02	31.85	40.90	38.06	79.28	46.36	35.22	22.00
7	51.40	36.64	44.80	39.48	24.45	29.90	40.90	38.06	74.40	45.58	35.22	24.08
8	45.60	36.64	44.80	36.64	24.45	27.30	47.92	78.06	74.40	47.92	35.22	26.00
9	47.92	36.64	44.02	32.50	25.02	29.90	44.80	79.28	75.52	44.02	35.22	25.50
10	47.14	36.64	44.80	27.95	27.30	26.16	40.90	86.02	73.18	40.90	35.22	25.00
11	46.36	36.64	44.80	27.30	31.20	26.16	40.90	79.28	68.30	41.68	35.22	24.00
12	44.80	36.64	41.68	27.30	32.50	25.02	42.46	86.02	69.52	45.58	36.64	23.00
13	44.80	38.06	38.06	27.30	31.20	24.45	40.19	95.46	69.52	87.40	35.22	22.00
14	44.80	30.06	34.51	27.30	31.20	24.45	38.77	97.78	64.06	280.42	35.22	22.00
15	44.80	37.35	32.50	27.30	27.30	24.45	37.35	118.00	63.00	229.14	36.64	21.00
16	44.80	40.19	29.90	27.30	25.59	26.73	37.35	129.06	64.00	157.50	35.22	21.00
17	44.80	39.48	29.90	27.30	28.60	31.20	37.35	113.26	61.94	58.76	35.22	20.00
18	44.80	40.90	27.95	27.95	29.90	32.50	36.64	97.20	57.70	55.00	35.22	20.00
19	44.80	41.68	26.73	29.80	35.22	33.80	34.51	91.54	66.18	45.58	34.51	20.00
20	44.80	43.24	23.88	29.90	39.48	34.51	40.90	91.54	47.14	38.06	34.51	19.00
21	44.80	44.02	21.60	32.50	32.50	35.93	40.90	129.06	41.68	35.93	34.51	19.00
22	44.80	52.30	21.60	31.20	27.30	33.15	40.90	204.94	44.02	35.22	34.51	18.50
23	42.46	70.74	21.60	35.22	27.30	34.51	39.48	229.64	45.58	36.77	34.51	18.50
24	40.90	83.26	21.60	34.51	27.30	34.51	38.06	239.54	39.48	38.06	34.51	18.00
25	40.90	95.46	21.60	33.80	26.16	38.06	37.35	219.76	35.22	37.35	34.51	18.00
26	40.90	97.78	23.88	31.85	26.16	47.92	38.06	190.20	34.51	37.35	34.51	19.00
27	37.35	97.78	23.88	28.60	27.30	63.00	37.35	149.60	36.64	38.06	30.00	22.00
28	37.35	97.20	27.30	27.30	27.30	74.40	40.19	78.06	38.06	38.06	28.00	22.50
29	37.35	91.54	27.95	27.30	29.25	63.00	42.46	59.82	38.06	38.06	26.00	17.78
30	37.35		29.90	27.30	28.60	80.50	41.68	56.60	39.48	38.06	26.00	16.16
31	37.35		29.90	29.90	29.90	36.64	36.64	32.30		38.06		16.16
Total	1,408.13	1489.43	1,174.06	927.87	878.87	1087.41	1315.41	3,104.34	1,725.31	1862.71	1032.82	662.10
Mean	45.42	51.36	37.87	30.93	28.35	36.25	42.43	100.14	57.51	60.09	34.43	21.36

Table 10-5. Daily Discharge Records (Original) at Bante C.S.
(1961) (m³/sec.)

DAY	JAN.	FEB.	MAR.	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
1	*16.16	12.50	*11.30	13.70	16.70	17.78	33.80	*19.40	41.32	37.56	24.68	19.40
2	16.16	12.50	11.30	13.70	16.70	*16.70	31.46	19.40	42.26	37.56	24.68	19.40
3	16.16	13.10	11.30	13.70	16.70	16.70	29.90	19.40	35.68	49.62	20.72	19.40
4	16.16	13.10	11.60	13.40	16.70	20.72	29.90	19.40	33.80	60.98	16.16	19.40
5	16.16	12.80	13.40	13.10	18.32	19.40	33.02	19.40	38.50	60.98	*14.00	19.40
6	15.62	*13.40	14.00	12.80	16.70	17.78	34.74	19.40	51.76	72.35	14.00	19.40
7	15.62	13.40	14.00	12.50	16.70	17.78	26.00	19.40	35.68	71.02	14.54	19.40
8	15.62	13.40	17.78	a12.00	16.70	17.24	26.00	23.36	27.56	71.02	14.54	19.40
9	15.62	13.40	16.16	a*11.50	16.70	16.70	26.78	22.70	20.72	67.03	16.16	19.40
10	15.62	13.40	16.16	a11.50	16.70	16.70	30.68	24.02	*19.40	68.36	18.86	*20.00
11	15.08	12.80	16.16	a11.50	18.86	16.70	30.68	24.02	19.40	68.36	22.04	18.86
12	15.08	11.60	16.70	a11.50	18.86	16.70	33.02	24.68	19.40	68.36	22.70	16.16
13	15.08	11.60	18.32	a11.50	16.70	18.86	33.02	24.68	25.34	67.03	24.68	15.08
14	15.08	11.60	16.70	a11.50	17.24	17.24	41.32	26.00	33.02	62.16	23.36	15.08
15	14.54	11.60	16.70	a11.50	*14.54	18.86	32.24	26.78	29.90	58.62	22.70	*14.00
16	14.540	11.60	16.70	a17.00	17.24	17.78	26.00	30.68	29.90	57.44	22.70	14.00
17	14.54	11.60	16.70	a12.50	18.86	16.70	39.44	33.02	29.90	96.74	22.70	14.00
18	14.54	11.60	16.70	a12.50	18.86	17.24	*42.26	34.74	30.68	136.44	20.72	14.00
19	14.54	11.60	22.70	a18.00	20.72	18.86	33.80	37.56	32.24	*143.26	19.40	14.00
20	13.40	11.60	*30.68	a*19.50	18.86	20.72	27.56	43.20	35.68	133.18	17.78	14.00
21	13.40	11.60	24.68	a17.50	20.72	19.40	26.00	*45.34	33.80	85.65	18.86	14.00
22	13.40	11.60	19.40	a15.00	19.40	19.40	26.00	45.27	64.52	68.36	24.68	14.00
23	13.40	11.60	19.40	a19.40	19.40	18.86	26.00	45.34	68.36	59.80	30.68	16.16
24	*12.50	11.60	18.32	a18.00	18.86	18.86	41.32	44.27	60.98	43.20	33.02	15.08
25	12.50	11.60	18.32	a15.50	22.04	20.72	33.02	44.27	44.27	35.68	*35.68	14.54
26	12.50	11.60	18.32	a16.50	*25.34	48.55	24.68	35.68	37.56	33.02	27.56	14.00
27	12.50	*11.30	17.24	a16.50	24.68	*68.36	*19.40	33.80	39.44	29.12	20.72	14.00
28	12.50	11.30	16.70	a16.50	20.72	63.34	19.40	33.80	40.38	26.00	19.40	14.00
29	12.50		16.70	a16.50	19.40	48.55	20.72	33.80	39.44	26.00	19.40	15.62
30	12.50		14.54	a16.50	18.32	43.20	19.40	37.56	35.68	*24.68	26.00	16.16
31	12.50		14.00	a16.50	17.78		19.40	34.74		24.68		14.54
TOTAL	445.52	340.40	522.68	432.80	576.02	726.40	916.96	944.11	1,096.57	1944.26	653.12	505.94
MEAN	14.37	12.16	16.86	14.43	18.58	24.21	29.58	30.46	36.55	62.72	21.77	16.32

Table 0-6. Daily Discharge Records (Original) at Bante G.S.

(1962)

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
1	14.00	14.00	17.24	32.24	37.56	17.78	18.32	40.00	58.00	51.76	18.32	37.56
2	14.00	13.40	19.40	26.00	33.02	15.08	20.72	39.00	64.00	42.26	18.32	40.38
3	14.00	13.40	15.08	26.00	26.78	18.86	19.40	41.00	60.00	37.56	16.70	34.74
4	14.00	13.40	14.00	29.12	20.72	22.04	20.08	43.00	49.00	32.84	16.70	33.80
5	15.62	13.40	14.00	25.34	16.16	21.38	20.72	42.00	48.00	29.90	16.70	33.80
6	15.08	13.40	14.00	20.72	14.00	17.78	20.72	42.00	47.00	46.41	25.34	35.68
7	16.16	13.40	13.70	16.16	14.00	18.32	19.40	46.00	46.00	63.34	107.10	35.68
8	16.16	13.40	13.70	14.00	14.00	17.24	19.40	44.00	45.00	53.90	482.95	35.68
9	15.62	13.40	13.70	14.00	13.40	16.70	20.72	41.00	44.00	42.26	283.58	33.80
10	14.00	13.40	13.70	14.00	13.40	16.70	20.72	40.00	43.00	40.38	237.05	33.80
11	14.00	13.40	13.70	13.70	13.40	16.70	22.04	41.00	41.32	40.38	115.25	33.80
12	14.00	13.40	13.70	13.70	13.40	16.70	22.04	45.00	33.80	38.50	63.34	31.46
13	14.00	13.40	13.70	13.70	13.40	17.24	22.04	48.00	33.02	38.50	51.76	29.90
14	14.00	13.40	13.70	26.78	13.40	37.56	22.04	48.00	31.46	40.38	41.32	29.90
15	14.00	13.40	13.70	23.36	13.40	33.02	23.36	50.00	28.34	39.44	35.68	29.90
16	14.00	13.40	13.70	25.34	13.40	29.12	23.36	51.00	30.68	38.50	33.80	29.90
17	14.00	13.40	13.70	28.34	13.40	25.34	23.36	51.00	30.68	40.38	33.80	29.90
18	14.00	13.40	13.70	28.34	14.00	23.36	24.68	50.00	31.46	39.44	33.80	29.90
19	14.00	13.40	13.70	30.68	14.00	21.38	29.12	50.00	33.80	42.26	34.74	29.90
20	14.00	13.40	13.70	33.02	14.00	17.78	232.11	50.00	51.76	41.32	30.68	29.12
21	14.00	13.40	13.70	27.56	14.00	17.24	375.22	51.00	42.26	29.44	25.34	27.56
22	14.00	13.40	13.70	20.72	16.16	24.02	498.35	51.00	39.44	32.24	24.68	26.00
23	14.00	13.40	33.02	18.32	18.85	25.34	460.54	51.00	38.50	25.34	26.78	26.00
24	14.00	13.40	42.26	18.32	16.16	22.04	131.55	52.00	41.32	22.04	29.12	26.00
25	14.00	13.40	32.24	16.70	15.62	20.72	77.67	53.00	89.64	19.40	30.68	24.68
26	14.00	13.40	24.68	16.16	16.16	19.40	59.80	55.00	129.92	19.40	33.02	23.36
27	13.70	15.08	18.32	77.67	15.62	17.78	49.62	58.00	136.44	19.40	32.24	23.36
28	13.70	14.00	14.00	60.98	14.54	18.86	41.32	65.00	81.66	18.32	33.02	23.36
29	13.70	14.00	14.00	41.32	14.00	18.32	39.44	59.00	73.68	18.32	37.56	22.70
30	13.70	42.26	42.26	33.02	152.16	18.32	41.32	54.00	65.70	18.32	35.68	22.70
31	16.16	39.44	39.44	33.02	33.02	41.32	41.32	61.00	18.32	18.32	18.32	22.70
Total	443.60	378.08	573.14	785.31	665.14	622.12	2460.48	1512.00	1588.83	1089.65	2005.05	927.02
Mean	14.31	13.50	18.49	26.18	21.46	20.74	79.37	48.77	52.96	35.15	66.84	29.90

Table 0-7. Daily Discharge Records (Original) at Bante G.S.

DAY	(1963)											
	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
1	22.70	26.00	33.20	20.40	20.40	22.25	107.00	52.15	71.00	107.00	33.20	25.25
2	22.70	26.00	33.20	19.10	20.40	20.25	90.60	32.15	68.00	83.40	36.35	23.75
3	22.70	26.00	33.20	18.00	20.40	26.00	85.10	37.40	56.90	80.00	38.45	23.75
4	22.04	26.00	31.10	18.00	20.40	22.25	77.00	25.25	62.50	80.00	47.90	23.75
5	22.04	27.56	31.10	18.00	20.40	21.50	50.30	31.10	77.00	65.00	36.35	23.75
6	21.36	37.56	31.10	18.00	20.40	41.90	41.90	31.10	127.00	65.00	34.25	23.75
7	20.72	29.12	29.00	18.00	20.40	54.20	40.70	44.30	147.00	65.00	34.25	23.75
8	20.72	26.78	29.00	18.00	20.40	83.40	40.70	40.70	121.00	65.00	34.25	23.75
9	22.04	26.00	29.00	18.00	20.40	90.20	45.50	44.30	101.00	65.00	34.25	23.75
10	23.36	26.00	29.00	17.40	20.40	85.10	50.30	41.90	75.50	65.00	34.25	23.75
11	23.36	26.00	27.50	17.40	20.40	58.25	43.10	40.70	65.00	65.00	34.25	37.40
12	22.70	26.00	26.00	17.40	45.50	37.40	43.10	43.10	65.00	65.00	34.25	103.00
13	22.70	26.00	25.25	16.90	37.40	30.05	48.10	41.90	65.00	51.50	34.25	375.80
14	23.36	27.50	24.50	16.90	27.50	36.35	62.30	491.00	65.00	51.50	34.25	235.00
15	24.68	26.00	21.50	16.90	21.00	31.10	56.90	443.00	65.00	38.45	34.25	88.50
16	24.68	26.00	21.50	21.50	20.40	29.00	56.90	107.00	65.00	33.20	34.25	46.70
17	24.68	26.00	21.50	20.40	20.40	29.00	45.50	50.30	65.00	29.00	34.25	52.85
18	24.68	26.75	21.50	20.40	20.40	29.00	45.50	62.30	88.50	29.00	29.00	62.30
19	24.02	47.90	21.50	20.40	20.40	27.50	45.50	59.60	68.00	29.00	26.75	63.65
20	24.02	50.30	21.50	20.40	20.40	27.50	52.85	51.50	65.00	29.00	22.25	65.00
21	24.02	52.85	21.50	20.40	20.40	26.75	56.90	28.25	68.00	29.00	21.50	65.00
22	23.36	50.30	21.00	20.40	20.40	26.75	51.30	56.90	68.00	29.00	21.50	34.20
23	24.68	46.70	21.00	20.40	20.40	26.75	46.70	56.90	68.00	29.00	21.50	37.40
24	24.68	40.70	21.00	20.40	20.40	26.75	34.25	56.90	66.50	29.00	23.00	37.40
25	24.68	39.50	21.00	20.40	20.40	27.50	29.00	65.00	69.50	29.00	21.50	36.35
26	24.02	35.30	23.00	20.40	21.50	26.75	29.00	56.90	75.50	29.00	21.50	33.20
27	24.02	34.25	24.50	20.40	21.50	27.50	29.00	56.90	127.00	29.00	21.50	32.15
28	23.36	34.25	23.00	20.40	21.50	72.50	31.10	63.65	147.00	29.00	21.50	35.30
29	23.36		23.00	20.40	22.25	411.00	33.20	62.30	193.00	29.00	21.50	28.25
30	23.36		21.50	20.40	23.00	382.20	35.30	62.30	157.00	29.00	45.50	19.70
31	23.36		21.50		23.00		34.25	62.30		29.00		19.70
Total	724.16	909.32	783.15	574.60	692.55	1864.65	1,337.05	2409.05	2,622.70	1,480.05	921.75	1,767.85
Mean	23.36	32.48	25.26	19.15	22.34	62.16	49.58	77.71	87.40	47.74	30.73	57.03

Table 10-2. Daily Discharge Records (Original) at Bante G.S.

DAY	(1964)												DEC.
	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.		
1	16.40	15.00	23.00	20.40	19.70	29.08	149.00	39.50	45.50	65.00	83.40	137.00	
2	16.40	15.00	22.25	20.40	19.70	28.25	88.50	41.90	40.70	60.95	50.00	166.20	
3	16.40	15.00	27.50	19.70	24.50	27.50	66.50	44.30	99.50	50.30	85.10	109.00	
4	16.40	15.00	27.50	19.70	22.25	26.00	52.85	43.10	47.90	44.30	88.50	72.30	
5	16.40	15.00	23.75	19.10	21.00	25.25	49.10	44.30	51.50	299.00	93.60	69.50	
6	16.40	15.00	21.50	19.10	21.00	26.00	46.70	43.10	56.90	161.60	97.00	66.50	
7	16.40	14.60	20.40	19.10	21.00	28.25	46.70	267.00	46.70	121.00	91.90	65.00	
8	16.40	14.60	20.40	19.10	21.00	26.75	46.70	270.20	36.35	103.00	85.10	68.00	
9	16.40	14.60	19.70	19.10	21.50	27.50	51.50	153.00	117.00	95.30	80.00	72.50	
10	23.75	14.60	19.10	18.50	20.40	35.30	45.50	107.00	68.00	153.00	90.20	77.00	
11	31.10	14.60	19.10	18.50	19.70	38.45	40.70	103.00	56.90	149.00	97.00	80.00	
12	33.20	16.40	22.25	18.50	19.70	31.10	63.65	99.00	50.30	91.90	90.20	75.50	
13	25.25	24.50	24.50	18.50	19.70	29.00	52.85	81.70	93.60	78.50	80.00	69.50	
14	19.10	26.00	25.25	18.50	33.20	27.50	44.30	69.50	80.00	68.00	93.60	65.00	
15	13.60	20.40	22.25	18.50	33.20	26.75	51.50	66.50	83.40	60.95	103.00	85.10	
16	16.40	18.50	21.50	18.00	34.25	27.50	65.00	62.30	85.10	56.90	117.00	107.00	
17	16.90	18.00	21.00	18.00	28.75	29.00	59.60	56.90	74.00	51.50	105.00	97.00	
18	16.90	17.40	21.00	21.50	24.50	27.50	58.25	58.25	97.00	50.30	97.00	88.50	
19	15.00	16.90	20.40	19.10	32.15	33.20	47.90	59.60	75.50	86.80	101.00	80.00	
20	14.30	16.90	21.00	19.70	60.95	34.25	44.30	71.00	80.00	62.30	107.00	72.50	
21	15.00	16.90	20.40	19.70	43.10	51.50	41.90	83.40	72.50	51.50	103.00	65.00	
22	15.50	16.90	21.00	19.70	36.35	59.60	38.45	69.50	86.80	59.60	99.00	62.30	
23	15.50	16.40	22.75	19.10	54.20	49.10	41.90	60.95	72.50	65.00	97.00	58.25	
24	15.50	16.40	21.00	18.50	47.90	41.90	52.85	59.60	56.90	68.00	88.50	54.20	
25	15.50	16.40	21.00	26.75	38.45	39.50	50.30	52.85	62.30	71.00	80.00	51.50	
26	15.50	16.90	21.50	19.70	37.40	40.70	58.25	49.10	52.85	72.50	88.50	51.50	
27	15.50	20.40	21.50	19.10	33.20	44.30	58.25	44.30	59.60	77.00	97.00	51.50	
28	15.50	20.40	21.50	19.10	33.20	43.10	60.95	54.20	58.25	80.00	111.00	51.50	
29	15.50	22.50	23.00	19.10	31.10	45.50	60.95	55.55	74.00	85.10	125.00	47.90	
30	15.50	22.25	22.25	19.10	28.25	292.60	52.85	62.30	101.00	88.50	133.00	45.50	
31	15.00	21.50	21.50	27.50	27.50	44.30	44.30	54.20	86.80	86.80	51.50	51.50	
Total	543.10	500.95	680.25	582.85	928.30	1291.85	1,732.95	2427.10	2,022.55	2714.60	2587.60	2,313.95	
Mean	17.52	17.27	21.94	19.43	29.95	43.06	55.87	78.29	67.42	87.57	96.25	74.64	

Table 10-2. Daily Discharge Records (Original) at Bante G.S.
(1965)

DAY	JAN.	FEB.	MAR.	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
1		88.50	22.25						50.30	45.50	30.00	26.75
2	65.00		21.50	17.40		26.75	38.45	21.00				25.25
3		78.50	21.50		18.50				72.50		28.25	25.25
4	72.50		21.50	17.40	18.50	26.75	36.35	21.50		51.50		23.75
5		63.65	21.00						65.00		26.75	30.05
6			21.00	17.40	19.10	23.75	43.10	22.25	51.50	56.90		31.10
7	65.00		21.50						68.00			25.25
8		49.10	23.75	18.50		21.00	37.40	21.50	71.00	54.20	50.30	22.25
9	72.50		24.50	18.50	18.50				127.00		58.25	20.40
10		36.35	26.75			19.70	34.25	22.25	141.00	65.00		19.70
11	80.00		23.00	19.70	19.70				80.00		34.25	19.70
12		33.20	22.25					23.00	69.50	71.00		23.00
13			21.50	18.50		44.30			58.25			21.50
14	65.00		21.00		21.50				52.85	52.85	31.10	19.70
15		29.00	21.00	18.50		49.10	97.00	23.70	56.90			19.10
16	107.00		20.40	18.50	31.10			25.25	105.00			21.00
17		26.75	19.70			34.25			113.00	40.70	30.050	29.00
18	88.50		19.70	18.00	26.00		51.50		86.80		29.00	23.75
19		26.00	19.70					24.50	77.00	37.40	30.05	20.40
20			19.70	24.50	24.50	24.50	46.70		69.50	37.40	31.10	19.10
21	65.00		19.10						65.00		30.05	18.50
22		25.25	19.70	21.50	22.25	55.55	44.30	27.50			29.00	17.40
23	58.25		20.40			45.50			62.30		27.50	16.90
24		23.00	19.70	20.40	20.40		41.90	33.20		32.15	26.75	16.90
25	51.50		19.10								27.50	*16.40
26		23.00	19.70	20.40	20.40	34.25		38.45	54.20	32.15	28.25	16.40
27			*27.50	19.70	19.10		39.50		49.10	28.25	29.00	20.40
28	51.50		25.25	19.70	19.10			45.50			26.75	*34.25
29			21.00			39.50					25.25	21.00
30			18.60	19.10	36.35							17.40
31			*16.90									
TOTAL	887.25	502.30	661.95	250.00	209.50	444.50	545.80	349.60	1,643.20	605.00	629.20	682.55
MEAN	68.25	41.86	21.35	19.23	20.73	34.22	45.48	26.89	74.69	46.54	31.46	22.02

Table 10-10 Daily Discharge Records (Original) at Bante G.S.
(1966)

DAY	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1	17.40	13.60	12.26	14.60	9.85	56.90	72.50	71.00	56.90	29.00	41.90	280.50
2	16.90	13.30	12.26	12.37	9.85	50.30	58.25	68.00			34.25	267.00
3	14.90	13.00	12.26	12.26	9.79							180.60
4	16.00	13.00	12.26	12.15	9.76							151.80
5	15.50	13.00	13.00	11.40	9.85	49.10	47.90	65.00	50.30	31.10		123.00
6	15.50	12.80	12.26	11.20	11.50	50.30	45.50	72.50	63.65	35.60		108.90
7	15.00	12.80	12.26	10.85	12.26					33.20		102.60
8	17.40	13.00	12.370	10.60	12.06							98.40
9	16.40	13.30	12.37	10.60	41.90							86.40
10	14.60	13.00	12.26	10.55	20.40							81.00
11	14.30	13.30	12.15	10.50	31.10		43.10	80.00	51.50	31.10		69.00
12	14.00	12.60	12.15	10.50						30.00		123.00
13	14.00	12.60	12.06	10.50	16.90	44.30	37.40	80.00	54.20	29.00		108.90
14	13.60	12.37	11.97	11.00								102.60
15	13.60	12.37	11.97	10.90	12.80	34.25	46.70	78.50	50.30	31.10		98.40
16	13.60	12.26	11.80	10.90								86.40
17	13.30	12.26	11.79	10.85	135.00	39.50	54.20	72.50	36.35	43.10		81.00
18	13.30	12.26	11.68	10.80	105.00							69.00
19	13.00	12.26	11.68	10.90	363.00	37.40	40.70	62.30	34.25	44.30		86.40
20	13.00	12.26	11.79	16.00								102.60
21	16.00	12.26	11.79	12.80								98.40
22	15.50	12.26	11.79	12.15								86.40
23	16.00	12.26	11.68	11.40	105.00	26.00	66.50	56.90	32.15	41.90		81.00
24	14.00	12.26	11.68	10.90								69.00
25	13.30	12.60	11.59	10.40	111.00	23.75	47.90	50.30	37.40	26.00		73.80
26	13.30	14.00	11.59	10.35								199.50
27	14.00	12.60	11.50	10.30	195.60	23.75	52.85	55.55	31.10	25.25		
28	14.50	12.26	11.50	10.30								
29	16.00		12.06	9.94								
30	14.60		14.00	9.91	35.30	21.50	75.50	59.60	32.15	317.20		
31	14.00		12.60			62.30				24.50		
Total	162.50	355.54	374.46	337.93	1152.92	506.15	689.00	923.95	585.8	455.20	1846.40	1822.50
Mean	14.92	12.70	12.08	11.26	60.68	38.93	53.00	66.00	45.06	33.51	142.03	140.19

Table 10-//. Daily Discharge Records (Original) at Bante G.S.

(1967)

DAY	JAN.	FEB.	MAR.	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
1		36.00	19.80		57.00			304.80	152.60	310.20	111.00	33.10
2	70.50					79.20		307.50	159.00	315.60	240.00	*57.82
3		34.80	19.20	19.20	55.50		210.30	312.90	147.90	*72.00	429.00	54.78
4	60.00							315.60	159.00	75.60	753.00	48.70
5			18.00	18.60	54.00	77.40	204.90	*318.30	152.60	79.20	564.00	45.82
6	63.00	33.60						159.00	130.20	82.80	286.20	41.50
7			18.60	18.00	52.50	210.30	196.80	164.40	159.00	86.40	244.60	38.62
8		32.40						267.00	294.00	92.10	135.00	35.74
9	54.00					177.90		90.00	294.00	96.30	115.00	31.90
10		31.20	17.40	69.00	57.80		191.40	120.60	267.00	100.50	107.00	29.50
11	55.50							111.00	240.00	94.20	97.00	27.10
12			67.50	67.50	55.50	175.20	180.60	106.80	267.00	102.60	80.00	24.70
13	51.00	29.10	16.80					100.50	135.00	537.00	76.78	22.30
14				66.00		169.80	175.20	120.60	123.00	104.70	75.17	20.40
15		28.20	16.20		55.50			159.00	108.90	456.00	71.95	18.50
16	48.00					164.40		120.60	156.60	442.50	68.73	18.50
17		27.30	15.00	64.50	49.50		167.10	118.20	127.80	*591.00	63.90	15.65
18	45.00							123.00	123.00	518.10	60.86	14.70
19			14.60	63.00	90.00	159.00	172.50	156.60	118.20	461.40	57.82	13.75
20	40,000	26.40		61.50	86.40	194.20	161.70	154.20	113.40	388.50	53.26	13.75
21		24.60	14.20					118.20	*72.00	267.00	47.26	12.10
22						147.00		111.00	267.00	213.00	45.82	11.40
23	38.40							108.90	264.30	177.90	38.62	10.00
24		23.70	13.80	60.00	84.60		144.60	111.00	186.00	169.80	35.74	9.30
25	30.00					151.80	96.30	127.80	172.50	147.00	31.90	9.30
26				57.00	88.20	151.80	149.40	*72.00	213.00	127.80	29.50	8.10
27	32.40	22.80	13.40					159.00	267.00	120.60	27.10	7.50
28	46.73			58.50	84.60	149.40	144.60	151.80	326.40	111.00	24.70	6.90
29			12.60					159.00	*537.00	108.90	22.30	5.76
30	32.40					144.60	135.00	159.00	294.00	104.70	*20.40	5.22
31			12.20		81.00			147.00		94.20		*1.68
TOTAL	666.93	350.10	221.80	622.80	952.10	2000.20	2208.40	5055.30	5986.50	6338.40	4013.61	697.09
MEAN	47.64	29.08	15.840	51.90	68.01	153.86	159.94	163.07	199.55	204.46	133.79	22.49

Table 10-12. Daily Discharge Records (Original) at Bante G.S.
(1968)

DAY	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1	3.60	3.60	10.70	8.10	18.50	35.74	80.00	34.30	151.00	83.40	37.74	11.40
2	3.30	4.14	10.70	8.10	22.30	33.10	113.00	12.80			30.70	9.30
3	4.68	4.68	10.70	8.10	24.70	34.30	107.00	14.70			27.10	8.70
4	3.00	5.22	10.70	8.10	37.18	31.90	129.00	18.50	141.00	83.40	22.30	8.70
5	2.70	5.76	10.70	8.10	30.70	29.50	123.00	16.60		113.00	22.30	8.70
6	2.40	6.30	10.70	8.10	21.35	35.74	117.00	20.40		101.00	22.30	8.70
7	125.00	6.90	35.74	7.50	13.75	42.94	113.00	22.30	139.00	101.00	22.30	9.30
8	129.00	8.10	30.70	7.50	6.90	40.06	105.00	28.30		86.80	20.40	10.00
9	129.00	8.10	24.70	7.50	6.30	35.74	111.00	33.10	133.00	76.76	21.35	10.00
10	129.00	15.65	16.60	6.90	7.50	33.10	103.00	48.70		71.95	31.39	9.30
11	125.00	14.70	13.75	6.90	6.30	38.62	97.00	59.34	125.00	70.34	19.45	9.30
12	123.00	13.75	12.10	6.90	5.22	37.18	86.80	57.82		70.34	20.40	9.30
13	127.00	12.80	12.10	6.90	8.10	34.30	107.00	60.86		68.73	17.55	9.30
14	115.00	12.10	11.40	6.90	6.30	30.70	115.00	63.90	137.00	67.12	17.55	8.70
15	117.00	12.10	12.10	6.90	20.40	28.30	109.00	70.34		68.73	17.55	10.00
16	115.00	10.70	11.40	6.90	10.00	28.30	93.60	75.17	135.00	67.12	16.60	8.10
17	111.00	10.00	11.40	6.90	9.30	25.90	90.20	78.39		57.82	18.50	8.10
18	101.00	10.00	10.70	6.90	10.70	31.90	86.80	93.60	135.00	57.82	19.45	8.10
19	91.90	10.00	10.70	6.90	14.70	29.50	83.40	101.00		53.26	19.45	8.10
20	83.40	10.00	10.00	41.50	13.75	117.00	76.78	107.00		51.74	19.45	8.10
21	81.70	10.00	10.00	16.60	12.80	107.00	206.00	111.00	115.00	50.22	19.45	8.10
22	83.40	10.00	10.00	8.10	11.40	101.00	203.40	115.00		48.70	17.55	8.10
23	71.95	10.00	10.00	6.90	10.70	93.60	195.60	125.00	111.00	45.82	15.65	8.10
24	65.51	10.00	10.00	35.74	14.70	90.20	180.00	129.00		45.82	16.60	8.10
25	59.34	10.00	10.00	17.55	16.60	86.80	163.90	135.00	99.00	42.94	17.55	6.90
26	53.26	10.70	9.30	12.10	15.65	80.00	166.20	137.00		42.94	17.55	6.90
27	41.50	10.70	9.30	9.30	13.75	93.60	157.00	155.00		42.94	17.55	6.30
28	40.06	10.70	9.30	8.10	13.75	107.00	147.00	139.00	107.00	42.94	16.60	6.30
29	42.94	10.70	9.30	8.10	6.90	107.00	145.00	180.00		40.06	16.60	6.30
30	41.50	10.70	8.10	15.65	41.50	68.73	139.00	260.00	113.00	38.62	13.75	6.30
31	51.74		8.10		40.06		133.00	195.60		38.62		6.30
Total	2,273.88	277.40	390.99	319.74	491.76	1,688.75	3,882.68	2,699.32	1,641.00	1,829.95	602.64	258.90
Mean	73.35	9.57	12.61	10.66	15.86	56.29	125.25	87.08	126.23	63.10	20.09	8.35

Table 10-13 Daily Discharge Records (Original) at Bante G.S.
(1969)
(m³/sec)

DAY	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1	6.30	3.60	4.68	8.10	9.30	16.65	15.65	76.78	53.26	70.34	15.65	17.55
2	6.30	3.60	4.68	17.55	8.10	8.70	14.70	70.34	63.90	70.34	13.75	14.70
3	6.30	3.60	4.68	12.10	7.50	13.75	12.10	47.26	57.82	68.73	12.80	16.60
4	6.30	3.60	4.68	7.50	9.30	18.50	13.75	40.06	57.82	68.73	12.80	15.65
5	5.76	5.22	4.68	6.30	7.50	20.40	18.50	60.86	57.82	63.90	12.10	17.55
6	5.76	5.22	4.68	5.76	11.40	15.65	17.55	45.82	59.34	70.34	11.40	17.55
7	5.76	5.22	4.68	5.76	7.50	22.30	14.70	42.94	59.34	83.40	10.70	14.70
8	5.76	4.68	4.68	8.10	6.90	18.50	14.70	48.70	59.34	67.12	13.75	12.80
9	5.76	4.68	4.68	14.70	6.90	13.75	12.80	42.94	59.34	67.12	16.60	12.80
10	4.68	4.68	4.68	17.55	9.30	12.80	12.80	42.94	59.34	67.12	20.40	13.75
11	4.68	4.68	4.68	9.30	10.00	11.40	11.40	42.94	57.82	67.12	20.40	15.65
12	4.68	4.68	4.68	14.70	7.50	10.70	11.40	42.94	57.82	65.51	20.40	20.40
13	4.68	4.68	4.68	9.30	8.10	10.70	10.70	44.38	57.82	65.51	19.45	19.46
14	4.68	4.68	4.68	8.70	13.75	10.70	10.00	44.38	57.82	51.74	18.50	22.30
15	4.68	4.68	5.22	8.70	14.70	11.40	11.40	51.74	57.82	70.34	18.50	19.45
16	4.68	4.68	5.22	8.70	9.30	12.80	27.10	45.82	73.56	70.34	17.55	20.40
17	4.68	4.68	5.22	8.10	10.70	12.10	19.45	45.82	68.73	70.34	21.35	21.35
18	4.68	4.68	5.22	8.10	13.75	10.70	14.70	50.22	68.73	70.34	24.70	21.35
19	4.68	4.68	5.22	8.10	13.75	12.80	16.60	56.30	73.56	70.34	6.90	19.45
20	4.68	4.68	5.22	8.10	14.70	15.65	41.50	51.74	71.95	70.34	8.70	17.55
21	4.68	4.68	5.22	7.50	12.80	12.80	38.62	51.74	70.34	68.73	12.80	16.60
22	4.68	4.68	5.22	7.50	10.00	10.00	35.74	51.74	70.34	68.73	12.80	21.35
23	4.68	4.68	5.22	7.50	9.30	9.30	35.74	51.74	70.34	68.73	11.40	21.35
24	4.68	4.68	5.22	7.50	8.70	8.70	37.19	51.74	70.34	68.73	11.40	17.55
25	4.68	4.68	5.22	6.90	8.70	14.70	30.70	51.74	70.34	68.73	16.60	15.65
26	4.68	4.68	5.22	6.90	9.30	17.55	35.74	53.26	70.34	28.30	28.30	14.70
27	4.14	4.68	5.22	6.90	10.00	10.70	135.00	53.26	70.34	24.70	63.90	12.80
28	4.14	4.68	5.22	6.90	9.30	10.70	155.00	53.26	70.34	23.50	29.50	12.10
29	4.14	4.68	5.22	6.90	8.70	10.70	115.00	51.74	70.34	22.30	22.30	13.75
30	4.14	4.68	5.22	7.50	8.10	15.65	80.00	56.30	70.34	21.35	18.50	12.80
31	4.14	4.68	5.22	7.50	8.70	65.51	65.51	56.30	70.34	19.45	28.30	28.30
Total	154.26	128.34	154.80	267.22	303.55	400.75	1,085.73	1,577.74	1,936.35	1,852.31	543.90	537.95
Mean	4.98	4.58	4.99	8.91	9.79	13.36	35.02	50.89	64.55	59.75	18.13	17.35

Table 10-14 Daily Discharge Records (Original) at Bante G.S.
(1970)
(m³/sec)

DAY	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1	23.50	8.10	6.30	10.70	6.90	10.00	18.50	48.70	25.90	54.78	90.20	33.10
2	19.45	7.50	6.90	6.90	6.90	12.80	14.70	48.70	23.50	53.26	83.40	97.00
3	20.40	7.50	6.30	8.70	6.90	17.55	13.75	48.70	22.30	63.90	93.60	59.34
4	47.26	7.50	5.76	7.50	5.22	30.70	13.75	47.26	23.50	51.74	74.00	28.30
5	38.62	8.10	12.80	12.80	4.14	25.90	13.75	47.26	28.30	38.62	69.50	22.30
6	31.90	11.40	7.50	11.40	3.60	24.70	12.80	47.26	27.10	51.74	75.17	29.50
7	25.90	10.70	7.50	8.70	3.60	47.26	12.80	47.26	25.90	63.90	59.34	29.50
8	24.70	9.30	6.30	9.30	4.14	44.38	12.10	47.26	24.70	70.34	45.82	25.90
9	22.30	8.10	5.76	8.70	3.00	37.18	12.10	47.26	25.90	67.12	42.94	22.30
10	29.50	7.50	5.22	7.50	4.68	29.50	11.40	47.26	25.90	51.74	38.62	23.50
11	24.70	12.80	5.22	6.90	3.30	27.10	11.40	47.26	51.74	47.26	35.74	19.45
12	24.70	12.10	4.68	6.30	3.30	25.90	11.40	47.26	17.55	38.62	38.62	12.80
13	22.30	8.70	4.68	5.76	5.76	51.74	11.40	47.26	18.50	70.34	34.30	11.40
14	20.40	8.10	4.68	5.22	3.30	54.78	12.80	47.26	19.45	315.00	30.70	14.70
15	19.45	6.90	4.14	5.22	4.68	37.18	12.80	56.30	20.40	331.00	34.30	37.18
16	21.35	6.30	4.14	4.68	9.30	37.18	12.80	63.90	20.40	200.80	29.50	20.40
17	20.40	6.30	4.14	4.68	6.90	34.30	11.40	51.74	20.40	137.00	48.70	24.70
18	18.50	6.30	4.14	4.14	5.22	37.18	12.10	38.62	20.40	103.00	38.62	27.10
19	17.55	6.30	4.14	3.60	8.10	35.74	12.10	51.74	21.35	85.10	93.60	22.30
20	16.60	5.76	4.14	3.60	10.00	35.74	12.10	53.26	21.35	68.73	101.00	19.40
21	15.65	5.76	3.60	3.30	10.70	34.30	16.60	53.26	22.30	62.38	59.34	27.10
22	13.75	6.30	3.60	3.30	6.90	35.74	14.70	51.74	22.30	56.30	63.90	23.50
23	12.80	6.30	6.30	3.30	5.22	37.18	28.30	48.70	23.50	63.90	67.12	17.55
24	12.10	6.30	5.22	5.76	4.68	35.74	21.35	42.94	23.50	51.74	80.00	15.65
25	11.40	5.76	3.60	10.00	4.68	34.30	20.40	57.82	24.70	42.94	83.40	12.80
26	10.70	5.76	3.60	11.40	4.14	34.30	17.55	50.21	24.70	42.94	51.74	12.10
27	10.00	6.30	5.76	5.76	8.10	34.30	21.35	41.50	53.26	129.00	42.94	11.40
28	9.30	6.30	6.30	8.10	8.70	34.30	29.50	29.50	47.26	68.73	50.22	11.40
29	8.70	6.30	6.30	7.50	6.30	34.30	48.70	24.70	44.38	53.26	65.51	10.00
30	8.70	6.30	6.30	8.10	8.10	34.30	75.17	22.30	56.30	71.95	65.51	9.30
31	8.10	6.30	10.00	8.70	8.70	34.30	50.22	20.40	20.40	117.00	-	8.70
Total	610.68	214.04	179.62	208.82	185.16	1005.57	592.72	1424.59	826.74	2724.13	1787.35	739.67
Mean	19.699	7.644	5.794	6.961	5.973	33.519	19.348	45.955	27.558	87.875	59.578	23.86

Table // - / Revised Daily Discharge at Bante G.S.
(1960)

Latitude: 16°25'54"
Longitude: 121°03'23"
(m³/sec)

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.
1	53.2	37.4	78.1	29.9	26.7	29.9	67.2	36.6	57.7	36.6	37.4	25.0
2	53.2	36.6	68.3	31.9	26.2	29.9	61.9	34.5	61.9	36.6	37.4	23.0
3	53.2	36.6	68.3	31.9	26.2	30.6	56.8	33.8	63.0	38.1	37.4	22.0
4	53.2	36.6	64.1	33.2	26.2	31.9	50.5	34.5	67.2	36.6	37.4	21.0
5	53.2	36.6	63.0	36.6	26.2	31.9	44.0	36.6	74.4	37.4	36.6	21.0
6	55.0	36.6	53.2	39.5	25.0	31.9	40.9	38.1	79.3	46.4	35.2	22.0
7	51.4	36.6	44.8	39.5	24.5	29.9	40.9	38.1	74.4	45.6	35.2	24.0
8	49.6	36.6	44.8	36.6	24.5	27.3	47.9	78.1	74.4	47.9	35.2	26.0
9	47.9	36.6	44.0	32.5	25.0	29.9	44.8	79.3	75.6	44.0	35.2	25.5
10	47.1	36.6	44.8	28.0	27.3	26.2	40.9	86.0	73.2	40.9	35.2	25.0
11	46.4	36.6	44.8	27.3	31.2	26.2	40.9	79.3	68.3	41.7	35.2	24.0
12	44.8	36.6	41.7	27.3	32.5	20.0	42.5	86.0	69.5	45.6	36.6	23.0
13	44.8	38.1	38.1	27.3	31.2	24.5	40.2	95.5	69.5	87.4	35.2	22.0
14	44.8	38.1	34.5	27.3	31.2	24.5	38.8	97.8	64.1	280.4	35.2	22.0
15	44.8	37.4	32.5	27.3	27.3	24.5	37.4	118.0	63.0	229.6	36.6	21.0
16	44.8	40.2	29.9	27.3	25.6	26.7	37.4	129.1	64.1	157.5	35.2	21.0
17	44.8	39.5	29.9	27.3	28.6	31.2	37.4	113.3	61.9	58.8	35.2	20.0
18	44.8	40.9	28.0	28.0	29.9	32.5	36.6	97.2	57.7	55.0	35.2	20.0
19	44.8	41.7	26.7	29.9	35.2	33.8	34.5	91.5	66.2	45.6	34.5	20.0
20	44.8	43.2	23.9	29.9	39.9	34.5	40.9	91.5	47.1	38.1	34.5	19.0
21	44.8	44.0	21.6	32.5	32.5	35.9	40.9	129.1	41.7	35.9	34.5	19.0
22	44.8	52.3	21.6	31.2	27.3	33.2	40.9	204.9	44.0	35.2	34.5	18.5
23	42.5	70.7	21.6	35.2	27.3	34.5	39.5	229.6	45.6	38.8	34.5	18.5
24	40.9	83.3	21.6	34.5	27.3	34.5	38.1	239.5	39.5	38.1	34.5	18.0
25	40.9	95.5	21.6	33.8	26.2	38.1	37.4	219.8	35.2	37.4	34.5	18.0
26	40.9	97.8	23.9	31.9	26.2	47.9	38.1	190.1	34.5	37.4	34.5	19.0
27	37.4	97.8	23.9	28.6	27.3	63.0	37.4	149.6	36.6	38.1	30.0	22.0
28	37.4	97.2	27.3	27.3	27.3	74.4	40.2	78.1	38.1	38.1	28.0	32.5
29	37.4	91.5	28.0	27.3	29.3	63.0	42.5	59.8	38.1	38.1	26.0	17.8
30	37.4		29.9	27.3	28.6	80.5	41.7	56.8	39.5	38.1	26.0	16.2
31	37.4		29.9	27.3	29.9	36.6	36.6	52.3		38.1		16.2
TOTAL	1408.4	1489.2	1174.3	928.1	879.2	1082.8	1315.7	3104.4	1725.3	1863.1	1032.6	662.2
MEAN	45.43	51.35	37.88	30.94	28.36	36.09	42.44	100.14	57.51	60.10	34.42	21.36
ANNUAL MEAN												45.51

Table // 2- Revised Daily Discharge at Bante G.S.
(1961)

(m³/sec)

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.
1	16.2	12.5	11.3	13.7	16.7	17.8	33.8	19.4	41.3	37.6	24.7	19.4
2	16.2	12.5	11.3	13.7	16.7	16.7	31.5	19.4	42.3	37.6	24.7	19.4
3	16.2	13.1	11.3	13.7	16.7	16.7	29.9	19.4	35.7	49.6	20.7	19.4
4	16.2	13.1	11.6	13.4	16.7	20.7	29.9	19.4	33.8	61.0	16.2	19.4
5	16.2	12.8	13.4	13.1	18.3	19.4	33.0	19.4	38.5	61.0	14.0	19.4
6	15.6	13.4	14.0	12.8	16.7	17.8	34.7	19.4	51.8	72.4	14.0	19.4
7	15.6	13.4	14.0	12.5	16.7	17.8	26.0	19.4	35.7	71.0	14.5	19.4
8	15.6	13.4	17.8	12.0	16.7	17.2	26.0	23.4	27.6	71.0	14.5	19.4
9	15.6	13.4	16.2	11.5	16.7	16.7	26.8	22.7	20.7	67.0	16.2	19.4
10	15.6	13.4	16.2	11.5	16.7	16.7	30.7	24.0	19.4	68.4	18.9	20.1
11	15.1	12.8	16.2	11.5	18.9	16.7	30.7	24.0	19.4	68.4	22.0	18.9
12	15.1	11.6	16.7	11.5	18.9	16.7	33.0	24.7	19.4	68.4	22.7	16.2
13	15.1	11.6	18.3	11.5	16.7	18.9	33.0	24.7	25.3	67.0	24.7	15.1
14	15.1	11.6	16.7	11.5	17.2	17.2	41.3	26.0	33.0	62.2	23.4	15.1
15	14.5	11.6	16.7	11.5	14.5	18.9	32.2	26.8	29.9	58.6	22.7	14.0
16	14.5	11.6	16.7	17.0	17.2	17.8	26.0	30.7	29.9	57.4	22.7	14.0
17	14.5	11.6	16.7	12.5	18.9	16.7	39.4	33.0	29.9	96.7	22.7	14.0
18	14.5	11.6	16.7	12.5	18.9	17.2	42.3	34.7	30.7	136.4	20.7	14.0
19	14.5	11.6	22.7	18.0	20.7	18.9	33.8	37.6	32.2	143.3	19.4	14.0
20	13.4	11.6	30.7	19.5	18.9	20.7	27.6	43.2	35.7	133.2	17.8	14.0
21	13.4	11.6	24.7	17.5	20.7	19.4	26.0	45.3	33.8	85.7	18.9	14.0
22	13.4	11.6	19.4	15.0	19.4	19.4	26.0	44.3	64.5	68.4	24.7	14.0
23	13.4	11.6	19.4	19.4	19.4	18.9	26.0	45.3	68.4	59.8	30.7	16.2
24	12.5	11.6	18.3	18.0	18.9	18.9	41.3	44.3	61.0	43.2	33.0	15.1
25	12.5	11.6	18.3	15.5	22.0	20.7	33.0	44.3	44.3	35.7	35.7	14.5
26	12.5	11.6	18.3	16.5	25.3	48.6	24.7	35.7	37.6	33.0	27.6	14.0
27	12.5	11.3	17.2	16.5	24.7	68.4	19.4	33.8	39.4	29.1	20.7	14.0
28	12.5	11.3	16.7	16.5	20.7	63.3	19.4	33.8	40.4	26.0	19.4	14.0
28	12.5	11.3	16.7	16.5	20.7	63.3	19.4	33.8	40.4	26.0	19.4	14.0
29	12.5	11.3	16.7	16.5	19.4	48.6	20.7	33.8	39.4	26.0	19.4	15.6
30	12.5	14.5	14.5	16.5	18.3	43.2	19.4	37.6	35.7	24.7	26.0	16.2
31	12.5	14.0	14.0	16.5	17.8	19.4	19.4	34.7	35.7	24.7	26.0	14.5
TOTAL	445.5	340.4	522.7	432.8	576.0	726.6	916.9	944.2	1096.7	1944.5	653.3	506.1
		9105.7										
MEAN	4.37	12.16	16.86	14.43	18.58	24.22	27.58	30.46	36.56	62.73	21.78	16.33
ANNUAL MEAN												24.84

Table // 3 Revised Daily Discharge at Bante G.S.
(1962)

(m³/sec)

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.
1	14.0	14.0	17.2	32.2	37.6	17.8	18.3	40.0	58.0	51.8	18.3	37.6
2	14.0	13.4	19.4	26.0	33.0	15.1	20.7	39.0	64.0	42.3	18.3	40.4
3	14.0	13.4	15.1	26.0	26.8	18.9	19.4	41.0	60.0	37.6	16.7	34.7
4	14.0	13.4	14.0	29.1	20.7	22.0	20.1	43.0	49.0	32.2	16.7	33.8
5	15.6	13.4	14.0	25.3	16.2	21.4	20.7	42.0	48.0	29.9	16.7	33.8
6	15.1	13.4	14.0	20.7	14.0	17.8	20.7	42.0	47.0	46.4	25.3	35.7
7	16.2	13.4	13.7	16.2	14.0	18.3	19.4	46.0	46.0	63.3	107.1	35.7
8	16.2	13.4	13.7	14.0	14.0	17.2	19.4	44.0	45.0	53.9	483.0	35.7
9	15.6	13.4	13.7	14.0	13.4	16.7	20.7	41.0	44.0	42.3	283.6	33.8
10	14.0	13.4	13.7	14.0	13.4	16.7	20.7	40.0	43.0	40.4	237.1	33.8
11	14.0	13.4	13.7	13.7	13.4	16.7	22.0	41.0	41.3	40.4	115.3	33.8
12	14.0	13.4	13.7	13.7	13.4	16.7	22.0	45.0	33.8	38.5	63.3	31.5
13	14.0	13.4	13.7	13.7	13.4	17.2	22.0	48.0	33.0	38.5	51.8	29.9
14	14.0	13.4	13.7	26.8	13.4	37.6	22.0	48.0	31.5	40.4	41.3	29.9
15	14.0	13.4	13.7	23.4	13.4	33.0	23.4	50.0	28.3	39.4	35.7	29.9
16	14.0	13.4	13.7	25.3	13.4	29.1	23.4	51.0	30.7	38.5	33.8	29.9
17	14.0	13.4	13.7	28.3	13.4	25.3	23.4	51.0	30.7	40.4	33.8	29.9
18	14.0	13.4	13.7	28.3	14.0	23.4	24.7	50.0	31.5	39.4	33.8	29.9
19	14.0	13.4	13.7	30.7	14.0	21.4	29.1	50.0	33.8	42.3	34.7	29.9
20	14.0	13.4	13.7	33.0	14.0	17.8	232.1	50.00	51.8	41.3	30.7	29.1
21	14.0	13.4	13.7	27.6	14.0	17.2	375.2	51.0	42.3	39.4	25.3	27.6
22	14.0	13.4	13.7	20.7	16.2	24.0	498.4	51.0	39.4	32.2	24.7	26.0
23	14.0	13.4	33.0	18.3	18.9	25.3	460.5	51.0	38.5	25.3	26.8	26.0
24	14.0	13.4	42.3	18.3	16.2	22.0	131.6	52.0	41.3	22.0	29.1	26.0
25	14.0	13.4	32.2	16.7	15.6	20.7	77.7	53.0	89.6	19.4	30.7	24.7
26	14.0	13.4	24.7	16.2	16.2	19.4	59.8	55.0	129.9	19.4	33.0	23.4
27	13.7	15.1	18.3	77.7	15.6	17.8	49.6	58.0	136.4	19.4	32.2	23.4
28	13.7	14.0	14.0	61.0	14.5	18.9	41.3	65.0	81.7	18.3	33.0	23.4
29	13.7		14.0	41.3	14.0	18.3	39.4	59.0	73.7	18.3	37.6	22.7
30	13.7		42.3	33.0	152.2	18.3	41.3	54.0	65.7	18.3	35.7	22.7
31	16.2		39.4		33.0		41.3	61.0		18.3		22.7
TOTAL	443.7	378.1	573.1	785.2	665.3	622.0	2460.3	1512.0	1588.9	1089.5	2005.1	927.3
MEAN ANNUAL	14.31	13.50	18.49	26.17	21.46	20.73	79.36	48.77	52.96	35.15	66.84	29.91
MEAN												35.64

Table // -K Revised Daily Discharge at Bante G.S.
(1963)

(m³/sec)

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JULY.	AUG.	SEP.	OCT.	NOV.	DEC.
1	22.7	26.0	33.2	20.4	20.4	22.3	107.0	32.2	71.0	107.0	33.2	25.3
2	22.7	26.0	33.2	19.1	20.4	28.3	93.6	32.2	68.0	83.4	36.4	23.8
3	22.7	26.0	33.2	18.0	20.4	26.0	85.1	37.4	56.9	80.0	38.5	23.8
4	22.0	26.0	31.1	18.0	20.4	22.5	77.0	25.3	62.3	80.0	47.9	23.8
5	22.0	27.6	31.1	18.0	20.4	21.5	50.3	31.1	77.0	65.0	36.4	23.8
6	21.4	27.6	31.1	18.0	20.4	41.9	41.9	31.1	127.0	65.0	34.3	23.8
7	20.7	29.1	29.0	18.0	20.4	54.2	40.7	44.3	147.0	65.0	34.3	23.8
8	20.7	26.8	29.0	18.0	20.4	83.4	40.7	40.7	121.0	65.0	34.3	23.8
9	22.0	26.0	29.0	18.0	20.4	90.2	45.5	44.3	101.0	65.0	34.3	23.8
10	23.4	26.0	29.0	17.4	20.4	85.1	50.3	41.9	75.5	65.0	34.3	23.8
11	23.4	26.0	27.5	17.4	20.4	58.3	43.1	40.7	65.0	65.0	34.3	37.4
12	22.7	26.0	26.0	17.4	45.5	37.4	43.1	43.1	65.0	65.0	34.3	103.0
13	22.7	26.0	25.3	16.9	37.4	30.1	43.1	41.9	65.0	51.5	34.3	375.8
14	23.4	27.5	24.5	16.9	27.5	36.4	62.3	491.0	65.0	51.5	34.3	235.0
15	24.7	26.0	21.5	16.0	21.0	31.1	56.9	443.0	65.0	38.5	34.3	88.5
16	24.7	26.0	21.5	21.5	20.4	29.0	56.9	107.0	65.0	33.2	34.3	46.7
17	24.7	26.0	21.5	20.4	20.4	29.0	45.5	50.3	65.0	29.0	34.3	52.9
18	24.7	26.8	21.5	20.4	20.4	29.0	45.5	62.3	88.5	29.0	29.0	62.3
19	24.0	47.9	21.5	20.4	20.4	27.5	45.5	59.6	68.0	29.0	26.8	63.7
20	24.0	50.3	21.5	20.4	20.4	27.5	52.9	51.5	65.0	29.0	22.3	65.0
21	24.0	52.9	21.5	20.4	20.4	26.8	56.9	58.3	68.0	29.0	21.5	65.0
22	23.4	50.3	21.0	20.4	20.4	26.8	51.5	56.9	68.0	29.0	21.5	54.2
23	24.7	46.7	21.0	20.4	20.4	26.8	46.7	56.9	68.0	29.0	21.5	37.4
24	24.7	40.7	21.0	20.4	20.4	26.8	34.3	56.9	66.5	29.0	23.0	37.4
25	24.7	39.5	21.0	21.4	20.4	27.5	29.0	65.0	69.5	29.0	21.5	36.4
26	24.0	35.3	23.0	20.4	21.5	26.8	29.0	56.9	75.5	29.0	21.5	33.2
27	24.0	34.3	24.5	20.4	21.5	27.5	29.0	56.9	127.0	29.0	21.5	32.2
28	23.4	34.3	23.0	20.4	21.5	72.5	31.1	63.7	147.0	29.0	21.5	35.3
29	23.4		23.0	20.4	22.3	41.0	33.2	62.3	193.0	29.0	21.5	28.3
30	23.4		21.5	20.4	23.0	382.2	35.3	62.3	157.0	29.0	45.5	19.7
31	25.3		21.5		23.0		34.3	62.3		29.0		19.7
TOTAL	724.3	909.6	783.2	574.6	692.6	1865.2	1537.2	2409.3	2622.7	1480.1	922.6	1768.6
MEAN	22.36	32.49	25.26	19.15	22.34	62.17	49.59	77.72	87.42	47.75	30.75	57.05
ANNUAL MEAN												44.50

Table // - 5 Revised Daily Discharge at Bante G.S.
(1964)

(m³/sec)

D.Y.	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JULY.	AUG.	SEP.	OCT.	NOV.	DEC.
1	16.4	15.0	23.0	20.4	19.7	29.0	140.0	39.5	45.5	65.0	83.4	137.0
2	16.4	15.0	22.3	20.4	19.7	28.3	88.5	41.9	40.7	61.0	80.0	166.2
3	16.4	15.0	27.5	19.7	24.5	27.5	66.5	44.3	39.5	50.3	85.1	109.0
4	16.4	15.0	27.5	19.7	22.3	26.0	52.9	43.1	47.9	44.3	88.5	72.5
5	16.9	15.0	23.8	19.1	21.0	25.3	49.1	44.3	51.5	299.0	93.6	69.5
6	16.4	15.0	21.5	19.1	21.0	26.0	46.7	43.1	56.9	161.6	97.0	66.5
7	16.4	14.6	20.4	19.1	21.0	28.3	46.7	267.0	46.7	121.0	91.9	65.0
8	16.4	14.6	20.4	19.1	21.0	26.8	46.7	270.2	36.4	103.0	85.1	68.0
9	16.4	14.6	19.7	19.1	21.5	27.5	51.5	153.0	117.0	95.3	80.0	72.5
10	23.8	14.6	19.1	18.5	20.4	35.3	45.5	107.0	68.0	153.0	90.2	77.0
11	31.1	14.6	19.1	18.5	19.7	38.5	40.7	103.0	56.9	149.0	97.0	80.0
12	33.2	16.4	22.3	18.5	19.7	31.1	63.7	99.0	50.3	91.9	90.2	75.5
13	25.3	24.5	24.5	18.5	19.7	29.0	52.9	81.7	93.6	78.5	80.0	69.5
14	19.1	26.0	25.3	18.5	33.2	27.5	44.3	69.5	80.0	68.0	93.6	65.0
15	13.6	20.4	22.3	18.5	33.2	26.8	51.5	66.5	83.4	61.0	103.0	85.1
16	16.4	18.5	21.5	18.0	34.3	27.5	65.0	62.3	85.1	56.9	117.0	107.0
17	16.9	18.0	21.0	18.0	28.3	29.0	59.6	56.9	74.0	51.5	105.0	97.0
18	16.9	17.4	21.0	21.5	24.5	27.5	58.3	58.3	97.0	50.3	97.0	88.5
19	15.0	16.9	20.4	19.1	32.2	33.2	47.9	59.6	75.5	86.8	101.0	80.0
20	14.3	16.9	21.0	19.7	61.0	34.3	44.3	71.0	80.0	62.3	107.0	72.5
21	15.0	16.9	20.4	19.7	43.1	51.5	41.9	83.4	72.5	51.5	103.0	65.0
22	15.5	16.9	21.0	19.7	36.4	59.6	38.5	69.5	86.8	59.6	99.0	62.3
23	15.5	16.4	22.3	19.1	54.2	49.1	41.9	61.0	72.5	65.0	97.0	58.3
24	15.5	16.4	21.0	18.5	47.9	41.9	52.9	59.6	56.9	68.0	88.5	54.2
25	15.5	16.4	21.0	26.8	38.5	39.5	50.3	52.9	62.3	71.0	80.0	51.5
26	15.5	16.9	21.5	19.7	37.4	40.7	58.3	49.1	52.9	72.5	88.5	51.5
27	15.5	20.4	21.5	19.1	33.2	44.3	58.3	44.3	59.6	77.0	97.0	51.5
28	15.5	20.4	21.5	19.1	33.2	43.1	61.0	54.2	58.3	80.0	111.0	51.5
29	15.5	22.3	23.0	19.1	31.1	45.5	61.0	55.6	74.0	85.1	125.0	47.9
30	15.5	22.3	22.3	19.1	28.3	292.6	52.9	62.3	101.0	88.5	133.0	45.5
31	15.0	21.5	21.5	19.1	27.5	14.3	44.3	54.2	54.2	86.8	51.5	51.5
TOTAL	543.2	501.0	680.6	582.9	928.7	1292.2	1732.6	2427.3	2022.7	2714.7	2887.6	2314.0
MEAN ANNUAL MEAN	17.52	17.29	21.96	19.43	29.96	43.07	55.89	78.3	67.42	87.57	96.25	74.65
												50.78

Table // - 6 Revised Daily Discharge at Bante G.S.
(1965)

(m³/sec)

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JULY.	AUG.	SEP.	OCT.	NOV.	DEC.
1	65.0	88.5	22.3	17.2	18.9	31.6	39.0	25.8	50.3	45.5	30.1	26.8
2	65.0	83.5	21.5	17.4	18.7	26.8	38.8	21.0	61.4	47.5	29.2	25.3
3	68.8	78.5	21.5	17.4	18.5	26.8	37.8	21.3	72.5	49.5	28.3	25.3
4	72.5	71.1	21.5	17.4	18.5	26.8	37.1	21.5	70.0	51.5	27.5	23.8
5	70.0	63.7	21.5	17.4	18.5	25.8	36.4	21.9	67.5	54.2	26.8	30.1
6	67.5	58.8	21.0	17.4	18.8	24.8	39.7	22.3	65.0	56.9	34.6	31.1
7	65.0	54.0	21.0	17.4	19.1	23.8	43.1	22.0	51.5	55.6	42.5	25.3
8	68.8	49.1	21.5	18.0	18.9	22.4	40.3	21.8	68.0	54.2	50.3	22.3
9	72.5	42.7	23.8	18.5	18.7	21.0	37.4	21.5	71.0	57.8	54.3	21.0
10	76.3	36.4	24.5	18.7	18.5	20.4	35.8	21.9	127.0	61.4	58.3	20.4
11	80.0	34.8	26.8	18.9	19.1	19.7	34.3	22.3	141.0	65.0	46.3	19.7
12	75.0	33.2	23.0	19.1	19.7	27.9	46.8	22.6	80.0	68.0	34.3	19.7
13	70.0	31.8	22.3	18.8	20.3	36.1	59.4	23.0	69.5	71.0	33.2	23.0
14	65.0	30.4	21.5	18.5	20.9	44.3	71.9	23.2	58.3	61.9	32.2	21.5
15	86.0	29.0	21.0	18.5	21.5	46.7	84.5	23.5	52.9	52.9	31.1	19.7
16	107.0	27.9	21.0	18.5	26.3	49.1	97.0	23.7	56.9	48.8	30.6	19.1
17	97.8	26.8	20.4	18.3	31.1	41.7	81.8	25.3	105.0	44.8	30.1	21.0
18	88.5	26.4	19.7	18.2	28.6	34.3	66.7	25.0	113.0	40.7	29.5	29.0
19	80.7	26.0	19.7	18.0	26.0	31.0	51.5	24.8	86.8	39.1	29.0	28.8
20	72.8	25.8	19.7	21.3	25.3	27.8	49.1	24.5	77.0	37.4	30.1	20.4
21	65.0	25.5	19.1	24.5	24.5	24.5	46.7	25.5	69.5	37.4	31.1	19.1
22	61.6	25.3	19.7	23.0	23.8	40.0	45.5	26.5	65.0	37.4	30.1	18.5
23	58.3	24.1	20.4	21.5	23.0	55.6	44.3	27.5	63.7	35.7	29.0	17.4
24	54.9	23.0	19.7	21.1	22.3	50.5	43.5	30.4	62.3	33.9	27.5	16.9
25	51.5	23.0	19.1	20.8	21.3	45.5	42.7	33.2	59.6	32.2	26.8	16.9
26	51.5	23.0	19.7	20.4	20.4	41.3	41.9	35.8	56.9	32.2	27.5	16.4
27	51.5	22.8	19.7	20.1	19.8	38.0	40.7	38.5	54.2	32.2	28.3	16.4
28	51.5	22.5	25.3	19.7	19.1	34.3	39.5	40.8	51.7	30.2	29.0	20.4
29	48.5	22.5	21.0	19.4	24.9	36.9	37.4	43.2	49.1	28.3	26.8	34.3
30	45.5	18.6	18.6	19.1	30.6	39.5	35.3	45.5	47.3	28.9	25.3	21.0
31	67.0	16.9	16.9	36.4	36.4	30.5	30.5	47.9	29.5	29.5	17.4	17.4
TOTAL	2121.0	1107.6	662.2	574.5	692.0	1015.4	1476.1	853.7	2123.9	1421.6	989.7	683.0
MEAN	68.42	39.56	21.36	19.15	22.32	33.85	47.62	27.54	70.80	45.86	32.99	22.03
ANNUAL MEAN												37.63

Table 11-2 Revised Daily Discharge at Bante G.S.
(1966)

(m³/sec)

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JULY.	AUG.	SEP.	OCT.	NOV.	DEC.
1	32.4	25.0	20.8	27.3	6.0	40.1	47.7	34.2	25.7	12.7	40.1	120.1
2	31.5	24.3	20.8	21.5	6.0	37.5	43.6	32.8	25.7	12.7	40.1	120.1
3	31.5	23.5	20.8	20.8	5.6	35.1	39.7	31.5	24.5	12.7	37.0	116.9
4	29.8	23.5	20.8	20.2	5.4	34.8	36.1	30.6	23.3	13.1	34.2	113.8
5	28.9	23.5	23.5	15.7	6.0	34.5	31.9	29.8	22.2	13.5	40.8	110.6
6	28.9	22.8	20.8	13.5	16.2	34.2	28.1	31.2	25.7	14.1	48.1	83.2
7	28.1	22.8	20.8	11.2	20.8	35.6	26.9	32.7	29.8	14.8	56.1	60.0
8	32.4	23.5	21.5	9.9	19.6	37.0	25.7	34.2	27.3	14.5	71.8	53.0
9.	30.6	24.3	21.5	9.9	65.4	35.6	25.0	33.3	25.0	14.2	89.6	46.5
10	27.3	23.5	20.8	9.6	37.0	34.2	24.3	32.4	24.3	13.9	85.6	42.2
11	26.5	24.3	20.2	9.4	52.4	32.7	23.5	35.1	23.5	13.7	81.6	38.0
12	25.7	22.2	20.2	9.4	41.1	31.2	21.5	38.0	22.8	13.5	66.3	34.2
13	25.7	22.2	19.6	9.4	31.5	29.8	19.6	37.7	23.5	13.3	52.8	31.5
14	25.0	21.5	19.0	12.0	28.4	25.7	21.8	37.4	24.3	13.1	41.1	28.9
15	25.0	21.5	19.0	11.4	25.5	22.2	24.3	37.0	23.2	13.5	38.5	27.7
16	25.0	20.8	18.4	11.4	22.8	23.9	25.5	35.6	22.2	13.9	36.1	26.5
17	24.3	20.8	17.8	11.2	77.0	25.7	26.8	34.2	19.8	14.3	40.1	26.0
18	24.3	20.8	17.3	10.9	170.9	25.2	28.1	31.5	17.7	17.3	44.3	25.5
19	23.5	20.8	17.3	11.4	277.3	24.8	23.5	28.9	15.7	20.8	50.0	25.0
20	23.5	20.8	17.8	29.8	410.0	24.3	19.6	27.8	15.3	21.5	56.1	22.8
21	29.8	20.8	17.8	22.8	302.0	19.9	26.1	26.8	14.8	22.2	62.6	20.8
22	28.9	20.8	17.8	20.2	140.9	16.2	34.2	25.7	14.3	21.9	189.8	19.9
23	29.8	20.8	17.3	15.3	81.6	15.5	29.8	23.9	13.9	21.7	388.7	19.0
24	25.7	20.8	17.3	11.4	84.0	14.8	25.7	22.2	14.6	21.5	270.0	17.7
25	24.3	22.2	16.8	8.9	86.4	14.8	22.2	23.5	15.4	17.0	173.2	16.4
26	24.3	25.7	16.8	8.6	121.1	14.8	23.5	25.0	16.2	13.5	170.1	15.3
27	25.7	22.2	16.2	8.4	161.8	14.8	25.0	25.7	14.8	13.3	167.1	16.0
28	34.2	20.8	16.2	8.4	101.0	14.1	31.0	26.5	13.5	24.3	164.0	16.8
29	29.8	20.8	19.6	6.6	55.3	13.5	38.0	27.3	13.7	24.0	156.3	37.0
30	27.3	25.7	25.7	6.4	25.0	26.5	37.0	28.1	13.9	23.8	148.6	69.6
31	25.7	22.2	22.2	32.4	32.4	35.1	35.1	28.9	13.9	23.5	148.6	45.4
TOTAL	855.4	626.5	602.4	402.9	2516.4	789.0	890.8	949.5	606.6	517.8	2940.7	1446.4
MEAN ANNUAL	27.59	22.38	19.43	13.43	81.17	26.3	28.74	30.63	20.22	16.70	98.02	46.66
MEAN												
ANNUAL												
MEAN												

Table II-2 Revised Daily Discharge at Bante G.S.
(1967)

(m³/sec)

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
1	60.0	19.0	11.4	11.2	29.8	43.2	128.0	138.1	38.0	86.4	12.0	21.5
2	38.0	18.7	11.3	11.2	29.3	43.2	128.0	140.2	50.0	89.6	50.0	35.1
3	34.7	18.4	11.2	11.2	28.9	42.9	128.0	144.4	44.3	7.0	173.2	32.4
4	31.5	18.2	10.9	11.0	28.5	42.5	126.0	146.5	50.0	7.5	641.2	28.9
5	32.4	18.0	10.6	10.9	28.1	42.2	124.0	148.6	38.0	7.9	309.2	27.8
6	33.3	17.8	10.7	10.8	27.8	78.5	121.1	50.0	37.0	8.4	212.4	25.0
7	31.5	17.6	10.8	10.6	27.6	128.0	118.2	52.4	50.0	8.9	180.2	28.5
8	29.8	17.3	10.9	15.9	27.3	116.9	116.9	110.6	130.0	9.6	91.3	22.2
9	28.1	17.0	10.6	24.8	28.5	105.2	66.3	22.2	130.0	10.1	75.5	20.2
10	28.5	16.8	10.4	37.0	29.8	104.6	65.4	33.3	110.6	10.6	69.6	19.0
11	28.9	16.4	10.3	36.6	29.3	104.0	62.6	29.8	93.0	9.9	62.6	24.3
12	27.7	16.1	10.2	36.1	28.9	103.4	60.0	28.1	110.6	10.9	50.0	22.8
13	26.5	15.7	10.1	35.6	28.9	101.6	58.7	25.7	39.0	278.8	47.7	21.5
14	26.0	15.5	10.0	35.1	28.9	99.8	57.4	33.3	34.2	11.2	46.5	20.2
15	25.5	15.3	9.9	34.8	28.9	98.1	56.1	50.0	28.9	197.2	44.3	19.0
16	25.0	15.0	9.6	34.5	27.3	96.4	54.9	33.3	48.8	185.0	42.2	19.0
17	24.3	14.8	9.4	34.2	25.7	95.2	53.6	32.4	36.1	341.2	39.0	17.3
18	23.5	14.6	9.3	33.7	36.6	94.1	54.9	34.2	34.2	258.5	37.0	16.8
19	22.5	14.5	9.2	33.3	50.0	93.0	56.1	48.8	32.4	202.2	35.1	16.2
20	21.5	14.3	9.1	32.8	48.8	91.3	53.6	47.7	30.6	140.2	32.4	16.2
21	21.1	13.9	9.0	32.4	47.7	89.6	51.2	32.4	16.2	62.6	28.9	15.3
22	20.6	13.5	8.9	32.1	47.3	87.2	48.4	29.8	110.6	39.0	28.1	14.8
23	20.2	13.3	8.8	31.8	46.9	84.8	45.8	28.9	108.8	27.3	24.3	13.9
24	18.1	13.1	8.6	31.5	46.5	85.8	43.2	29.8	62.6	25.0	22.8	13.5
25	16.2	13.0	8.6	30.6	47.7	86.9	44.3	36.1	56.1	19.0	20.8	13.5
26	16.8	12.8	8.5	29.8	48.8	88.0	45.4	16.2	77.0	14.8	19.6	12.7
27	17.3	12.7	8.4	30.2	48.1	87.2	44.3	50.0	62.6	13.5	18.4	12.3
28	17.3	12.0	8.2	30.6	47.3	86.4	43.2	46.5	96.4	12.0	17.3	11.7
29	17.3		7.9	30.6	46.5	84.8	41.1	50.0	278.8	11.7	16.2	11.4
30	17.3		7.8	29.8	45.4	83.2	39.0	50.0	77.0	11.2	15.3	11.2
31	18.4		7.7		44.3		80.0	44.3		9.9		10.9
TOTAL	799.8	435.3	298.3	810.7	1135.4	2587.4	2185.7	1763.6	2111.8	2127.1	2463.1	589.6
MEAN	25.8	15.55	9.62	27.02	36.63	86.25	70.51	56.09	70.39	68.62	82.10	19.02
ANNUAL MEAN												47.37

Table 1-9 Revised Daily Discharge at Bante G.S.
(1968)

(m³/sec)

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JULY.	AUG.	SEP.	OCT.	NOV.	DEC.
1	10.4	9.6	12.7	11.7	17.8	29.8	62.6	29.8	93.0	37.0	19.0	11.7
2	10.1	9.9	12.7	11.7	20.2	28.1	89.6	16.2	93.0	37.0	17.3	10.9
3	10.9	10.1	12.7	11.7	21.5	28.9	84.8	17.3	88.8	36.6	16.2	10.6
4	9.9	10.4	12.7	11.7	28.9	27.3	103.4	19.6	84.8	36.1	14.8	10.6
5	9.6	10.6	12.7	11.7	25.0	25.7	98.1	18.4	83.7	52.4	15.3	10.6
6	9.4	10.9	12.7	11.7	19.6	29.8	93.0	20.8	82.6	46.5	15.3	10.6
7	99.8	11.2	27.3	11.4	15.3	34.2	89.6	22.2	81.6	46.5	15.3	10.9
8	103.4	11.7	24.3	11.4	11.4	32.4	83.2	25.7	79.3	39.0	14.3	11.2
9	103.4	11.7	20.8	11.4	11.2	29.8	80.0	28.9	77.0	34.2	14.8	11.2
10	103.4	15.3	16.2	11.2	11.7	28.1	81.6	39.0	73.2	32.4	15.3	10.9
11	99.8	14.8	14.8	11.2	11.2	31.5	77.0	46.5	69.6	31.5	14.3	10.9
12	98.1	14.3	13.9	11.2	10.6	30.6	68.2	45.4	72.5	31.5	14.8	10.9
13	101.6	13.9	13.9	11.2	12.0	28.9	84.8	47.7	75.5	30.6	13.9	10.9
14	91.3	13.5	13.5	11.2	11.2	26.5	91.3	50.0	78.5	29.8	13.9	10.6
15	93.0	13.5	13.9	11.2	19.6	25.0	86.4	54.9	77.7	30.6	13.9	11.4
16	91.3	12.7	13.5	11.2	13.5	25.0	74.0	58.7	77.0	29.8	13.5	10.6
17	88.0	12.3	13.5	11.2	13.1	23.5	71.0	61.3	77.0	25.7	14.3	10.6
18	78.5	12.3	13.1	11.2	13.9	27.3	68.2	74.0	77.0	25.7	14.8	10.6
19	71.0	12.3	13.1	11.2	16.2	25.7	65.4	80.0	71.5	24.3	14.8	10.6
20	64.0	12.3	12.7	11.5	15.7	93.0	60.0	84.8	66.3	23.5	14.8	10.6
21	62.6	12.3	12.7	16.8	15.3	84.8	173.2	88.0	61.3	22.8	14.8	10.6
22	64.0	12.3	12.7	12.0	14.3	80.0	170.9	91.3	60.0	22.2	13.9	10.6
23	53.6	12.3	12.7	11.4	13.9	74.0	164.0	99.8	58.7	21.5	13.1	10.6
24	48.8	12.3	12.7	28.1	16.2	71.0	150.8	103.4	54.2	21.5	13.5	10.6
25	44.3	12.3	12.7	17.3	17.3	68.2	136.1	108.8	50.0	20.8	13.9	10.4
26	40.1	12.7	12.3	14.3	16.8	62.6	138.1	110.6	51.2	20.8	13.9	10.4
27	31.5	12.7	12.3	12.7	15.7	74.0	130.0	128.0	52.4	20.8	14.3	10.1
28	30.6	12.7	12.3	12.0	15.7	84.8	120.1	112.5	53.6	20.8	13.9	10.1
29	32.4	12.7	12.3	12.0	11.7	84.8	118.2	150.8	54.9	20.2	13.9	10.1
30	31.5	12.7	11.7	16.2	33.3	53.6	112.5	217.6	56.1	19.6	12.7	10.1
31	38.0		11.7		31.5		107.0	161.8		19.6		10.1
TOTAL	1824.3	355.6	436.8	400.7	521.3	1368.9	3133.1	2213.8	2132.0	911.3	438.5	330.6

MIN 53.89 12.26 13.36 16.82 45.63 101.07 71.41 71.41 71.41 71.07 29.40 14.62 10.66
 MAX 103.4 11.7 27.3 11.4 11.4 11.4 26.5 91.3 54.9 77.7 30.6 13.9 11.4

Table // - 10 Revised Daily Discharge at Bante G.S.
(1969)

(m³/sec)

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JULY.	AUG.	SEP.	OCT.	NOV.	DEC.
1	8.9	7.9	7.7	8.6	8.2	10.1	24.3	74.0	53.6	68.2	22.2	25.7
2	8.9	7.9	7.7	11.7	7.7	7.9	23.5	65.4	62.6	68.2	22.2	23.5
3	8.9	7.9	7.7	9.9	7.5	9.6	21.5	48.8	57.4	66.8	22.2	25.0
4	8.9	7.9	7.7	8.2	8.2	10.9	22.8	43.2	57.4	66.8	21.8	24.3
5	8.6	8.6	7.7	7.7	7.5	11.4	26.5	60.0	57.4	62.6	21.5	25.7
6	8.6	8.4	7.7	7.5	8.9	10.1	25.7	47.7	58.7	68.2	20.8	25.7
7	8.6	8.4	7.5	7.5	7.5	12.0	23.5	45.4	58.7	80.0	20.2	23.5
8	8.6	8.2	7.5	8.4	7.3	10.9	23.5	50.0	58.7	65.4	22.6	22.2
9	8.6	8.2	7.5	10.6	7.3	9.6	22.2	44.3	58.7	65.4	25.2	22.2
10	8.4	8.2	7.5	11.4	8.2	9.4	22.2	44.3	58.7	65.4	28.1	22.8
11	8.4	8.2	7.5	8.6	8.4	8.9	20.8	44.3	57.4	65.4	28.1	24.3
12	8.4	7.9	7.5	10.4	7.5	8.6	20.8	44.3	57.4	64.0	28.1	28.1
13	8.4	7.9	7.5	8.4	7.7	8.6	20.2	45.4	57.4	64.0	27.3	27.3
14	8.4	7.9	7.7	8.2	9.6	8.6	19.6	45.4	57.4	47.7	26.5	29.8
15	8.4	7.9	7.7	7.9	9.9	8.9	20.8	52.4	57.4	68.2	26.1	27.3
16	8.4	7.9	7.7	7.9	8.2	9.4	33.3	47.7	71.0	68.2	25.7	28.1
17	8.4	7.9	7.7	7.7	8.6	9.1	27.3	47.7	66.8	68.2	28.5	28.9
18	8.4	7.9	7.7	7.7	9.6	8.6	23.5	51.2	66.8	68.2	31.5	28.9
19	8.4	7.9	7.7	7.7	9.6	9.4	25.0	56.1	71.0	68.2	16.8	27.3
20	8.4	7.9	7.7	7.7	9.9	10.1	44.3	52.4	69.6	68.2	18.4	25.7
21	8.4	7.9	7.7	7.5	9.4	9.4	42.2	52.4	68.2	66.8	22.2	25.0
22	8.4	7.9	7.5	7.5	8.4	8.4	40.1	52.4	68.2	66.8	22.2	28.9
23	8.4	7.9	7.5	7.5	8.2	8.2	40.1	52.4	68.2	66.8	20.8	28.9
24	8.4	7.9	7.5	7.5	7.9	7.9	41.1	52.4	68.2	66.8	20.8	25.7
25	8.4	7.9	7.5	7.5	7.9	9.9	36.1	52.4	68.2	66.8	25.0	24.3
26	8.4	7.7	7.5	7.3	8.2	10.6	40.1	57.4	68.2	47.1	34.2	23.5
27	8.2	7.7	7.5	7.3	8.4	8.6	128.0	53.6	68.2	31.5	62.6	22.2
28	8.2	7.7	7.3	7.3	7.9	8.6	148.6	53.6	68.2	30.6	35.1	21.5
29	8.2	7.7	7.3	7.3	7.9	8.6	108.8	52.4	68.2	29.8	29.8	22.8
30	8.2	7.7	7.5	7.5	7.7	24.3	77.0	56.1	68.2	28.5	26.5	22.2
31	8.2	7.5	7.5	7.5	7.9	64.0	64.0	56.1	27.3	27.3	34.2	34.2
TOTAL	262.4	223.5	235.1	247.7	257.1	296.6	1257.4	1601.2	1896.1	1856.1	783.0	795.5
MEAN	8.46	7.98	7.58	8.26	8.29	9.89	40.56	51.65	63.20	59.81	26.1	25.66
ANNUAL MEAN												26.46

1 6 5 1

Table //-- Revised Daily Discharge at Bante G.S.
(1970)

(m³/sec)

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JULY.	AUG.	SEP.	OCT.	NOV.	DEC.
1	14.3	8.9	8.2	9.9	8.4	9.6	34.2	58.7	39.0	61.3	103.4	48.8
2	12.7	8.9	8.4	8.4	8.4	10.6	29.8	58.7	35.1	60.0	96.4	110.6
3	13.1	8.6	8.2	9.1	8.4	12.0	28.1	58.7	33.3	71.0	107.0	72.5
4	10.4	8.6	7.9	8.6	7.3	17.3	28.1	57.4	34.2	60.0	86.4	44.3
5	8.9	8.9	10.4	10.6	7.3	11.4	28.1	57.4	37.0	50.0	81.6	39.0
6	17.8	10.1	10.6	10.1	7.0	11.2	26.5	57.4	33.3	62.6	88.0	45.4
7	15.3	9.9	8.6	9.1	7.0	21.5	26.5	57.4	44.3	77.0	72.5	45.4
8	14.8	9.4	8.2	9.4	7.3	20.2	25.7	57.4	32.4	83.2	60.0	42.2
9	13.9	8.9	7.9	9.1	7.0	17.8	25.0	57.4	32.4	80.0	57.4	39.0
10	16.8	8.6	7.7	8.6	7.5	42.2	24.3	57.4	31.5	65.4	53.6	40.1
11	14.8	10.6	7.7	8.4	6.8	41.1	23.5	57.4	50.0	61.3	51.2	36.1
12	14.8	10.4	7.5	8.2	6.8	41.1	22.8	57.4	23.5	53.6	53.6	29.8
13	13.9	9.1	7.5	7.9	7.9	65.4	22.8	57.4	23.5	83.2	50.0	28.1
14	13.1	8.9	7.5	7.7	6.8	68.2	23.5	57.4	23.5	325.0	46.5	31.5
15	12.7	8.4	7.3	7.7	7.5	52.4	23.5	65.4	23.5	344.2	50.0	52.4
16	13.5	8.2	7.3	7.5	9.4	52.4	22.8	77.0	23.5	217.6	45.4	37.0
17	13.1	8.2	7.3	7.5	8.4	50.0	21.5	61.3	23.5	150.8	62.6	41.1
18	12.3	8.2	7.3	7.3	7.7	52.4	20.8	50.0	23.5	116.3	53.6	43.2
19	12.0	8.2	7.3	7.0	8.9	51.2	20.2	61.3	23.5	98.1	107.0	39.0
20	11.7	7.9	7.3	7.0	9.6	51.2	19.6	62.6	23.5	81.6	114.4	36.1
21	11.4	7.9	7.0	6.8	9.9	50.0	22.2	62.6	23.5	75.5	72.5	39.0
22	10.9	8.2	7.0	6.8	8.4	51.2	20.8	61.3	23.5	69.6	77.0	40.1
23	10.6	8.2	8.2	6.8	7.7	52.4	29.8	58.7	23.5	77.0	80.0	34.2
24	10.4	8.2	7.7	7.9	7.5	51.2	25.0	53.6	23.5	65.4	93.0	32.4
25	10.1	7.9	7.0	9.6	7.5	50.0	24.3	66.8	23.5	57.4	96.4	29.8
26	9.9	7.9	7.0	10.1	7.3	50.0	22.2	58.7	23.5	57.4	65.4	28.9
27	9.1	8.2	7.9	7.9	8.9	50.0	25.7	52.4	41.1	142.3	57.4	28.1
28	9.4	8.2	8.2	8.9	9.1	50.0	35.1	42.2	37.0	81.6	64.0	28.1
29	9.1	8.2	8.2	8.6	8.2	50.0	52.4	38.0	35.1	66.8	78.5	26.5
30	9.1	8.2	8.2	8.9	8.9	50.0	83.2	36.1	62.6	84.8	78.5	25.7
31	8.9	9.6	9.6	9.1	9.1	60.0	60.0	34.2	130.0	130.0	25.0	25.0
TOTAL	378.8	243.6	246.1	251.4	247.9	1204.0	898.0	1749.7	930.8	3107.0	2203.3	1239.4
MEAN	13.22	8.70	7.94	8.38	8.00	40.13	28.97	56.44	51.03	100.23	73.44	39.98
ANNUAL MEAN												34.62

Table // -12 Revised Daily Discharge at Baute G.S.
(1971)

(m³/sec)

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JULY.	AUG.	SEP.	OCT.	NOV.	DEC.
1	26.5	18.4	20.8	27.3	20.2	23.5	35.1	80.0	39.0	60.0	69.6	155.2
2	31.5	18.4	19.0	24.3	21.5	23.5	35.1	107.0	44.3	61.7	68.2	127.0
3	43.2	18.4	19.0	24.3	23.5	21.8	40.1	79.3	50.0	63.5	66.8	101.6
4	32.4	18.4	18.4	24.3	19.0	20.2	45.4	56.1	46.9	65.4	62.6	90.2
5	30.6	21.5	18.4	23.5	16.2	23.1	51.2	50.0	43.9	67.5	58.7	79.5
6	28.9	26.5	17.8	23.5	23.5	26.3	50.6	44.3	41.1	69.6	56.1	69.6
7	28.1	24.3	17.8	23.5	17.3	29.8	50.0	43.2	44.3	115.3	53.6	59.3
8	26.5	20.8	17.3	21.5	24.3	27.7	41.6	42.2	47.7	173.2	51.2	50.0
9	26.5	22.2	17.3	19.0	30.6	25.7	34.2	41.1	47.7	227.2	60.0	51.2
10	24.3	29.8	17.3	22.2	27.3	21.8	41.4	67.5	47.7	288.8	69.6	52.4
11	24.3	28.9	16.8	21.5	29.8	18.4	49.6	101.6	56.1	357.8	69.6	53.2
12	26.5	25.7	45.4	19.0	29.8	18.0	58.7	74.7	65.4	464.2	69.6	54.0
13	26.5	23.5	110.6	19.0	30.6	17.7	46.5	52.4	75.5	610.2	69.1	54.9
14	26.5	22.8	66.8	19.0	26.5	17.3	36.1	47.7	55.5	232.1	68.6	47.7
15	25.7	28.1	50.0	19.6	33.3	21.2	74.7	43.2	39.0	52.4	68.2	41.1
16	25.7	27.3	44.3	19.6	41.1	25.7	130.0	39.0	41.6	53.2	62.0	43.8
17	25.0	26.5	42.2	21.5	77.0	34.2	110.6	59.3	44.3	54.0	56.1	46.5
18	25.0	28.1	37.0	19.0	34.2	44.3	50.0	84.8	54.0	54.9	53.0	47.7
19	25.7	37.0	33.3	18.4	34.2	37.0	39.0	74.7	64.9	64.9	63.3	48.8
20	23.5	45.4	31.5	18.4	31.5	30.6	30.2	65.4	77.0	72.5	54.4	50.0
21	23.5	38.0	28.9	18.4	77.0	25.0	22.8	57.8	50.0	60.6	59.1	48.2
22	21.5	31.5	28.1	17.8	58.7	33.7	28.1	50.8	29.8	50.0	64.0	46.5
23	20.2	28.1	26.5	17.3	43.2	44.3	34.2	44.3	27.7	50.4	74.7	47.1
24	19.6	26.5	26.5	17.3	31.5	37.0	30.3	39.0	25.7	50.8	86.4	47.7
25	19.6	25.7	28.1	16.8	30.6	30.6	26.8	34.2	29.8	51.2	88.8	45.8
26	19.0	24.3	24.3	16.2	28.9	41.4	23.5	50.0	34.2	49.4	91.3	43.9
27	19.0	23.5	23.5	15.3	24.3	54.4	23.9	69.6	39.0	47.7	106.4	42.2
28	19.0	23.5	22.8	15.3	22.2	69.6	24.3	57.0	45.4	75.5	122.7	41.6
29	19.0	23.5	25.0	15.3	26.5	57.4	31.0	45.8	52.4	77.0	140.2	41.1
30	18.4	27.3	27.3	15.3	25.0	46.5	39.0	36.1	56.1	74.0	148.6	41.1
31	18.4	28.1	28.1	15.3	23.5	23.5	57.4	38.0	72.5	72.5	41.1	41.1
TOTAL	770.1	733.1	950.1	593.4	982.8	947.7	1391.4	1776.1	1416.0	3865.9	2219.2	1810.0
		17452.8										
MEAN ANNUAL MEAN	24.84	26.18	30.65	19.90	31.70	31.59	44.88	57.29	47.2	124.71	73.97	58.39
												47.59

Table //72 Revised Daily Discharge at Bante G.S.
(1972)

(m³/sec)

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JULY.	AUG.	SEP.	OCT.	NOV.	DEC.
1	39.0	32.4	126.0	10.6	12.3	31.5	22.2	60.0	47.7	35.1	26.5	29.8
2	39.0	32.4	48.8	10.6	12.7	31.5	22.2	60.0	69.1	35.1	25.7	29.8
3	39.0	29.3	12.0	10.6	13.1	32.4	22.2	59.3	95.2	34.2	25.0	29.8
4	40.1	26.5	12.2	10.8	12.7	33.3	21.2	58.7	126.0	33.3	32.1	29.8
5	41.1	27.0	12.5	10.9	12.3	34.2	20.2	71.5	88.8	36.1	40.4	28.1
6	40.1	27.6	12.7	10.9	12.5	33.3	19.6	85.8	58.7	39.0	50.0	26.5
7	39.0	28.1	11.9	10.9	12.6	32.4	19.0	101.6	107.9	38.4	46.0	26.5
8	39.7	28.1	11.2	10.1	12.7	27.7	20.0	140.2	173.2	37.7	42.2	26.5
9	40.4	28.1	11.3	9.4	12.3	23.5	21.1	185.0	165.6	37.0	40.6	25.7
10	41.1	27.3	11.4	10.4	12.0	22.2	22.2	140.2	231.7	36.1	39.0	25.0
11	41.1	26.5	11.0	13.5	11.9	20.8	47.1	101.6	222.8	35.1	33.9	24.3
12	41.1	22.6	10.6	13.1	11.7	19.6	84.8	90.2	132.0	35.1	29.2	23.9
13	40.6	19.2	10.1	23.5	13.0	20.8	64.0	79.5	65.4	35.1	25.0	23.5
14	40.1	16.2	11.7	28.1	14.5	22.2	46.5	69.6	94.7	34.2	24.3	23.9
15	45.0	16.2	13.9	20.8	16.2	20.5	129.3	93.0	130.0	33.3	23.5	24.3
16	50.4	16.2	12.0	23.5	16.8	19.0	256.6	120.1	131.3	32.4	22.8	23.1
17	56.1	15.0	10.6	20.8	17.3	18.4	436.8	101.6	132.7	31.9	22.2	21.9
18	47.7	13.9	10.6	14.8	16.8	18.8	226.8	84.8	134.0	31.5	21.3	20.8
19	40.1	13.5	10.5	11.2	16.2	17.3	89.6	76.0	130.0	29.8	20.4	19.9
20	40.6	13.1	10.4	10.5	17.7	17.6	91.3	67.7	126.0	28.1	19.6	19.0
21	41.1	12.7	9.9	9.9	19.2	17.8	93.0	60.0	124.0	28.1	20.8	18.1
22	40.4	12.3	9.4	11.0	20.8	17.0	88.5	60.0	122.1	28.1	22.2	17.3
23	39.7	12.0	9.7	12.2	21.2	16.2	84.2	60.0	86.4	28.1	20.8	17.0
24	39.0	11.6	10.1	13.9	21.5	21.1	80.0	59.3	57.4	30.6	19.6	16.8
25	39.0	11.2	10.2	12.3	23.5	27.0	189.8	58.7	35.1	33.3	26.5	16.4
26	39.0	11.3	10.3	11.2	25.7	34.2	347.8	58.7	35.1	28.1	35.1	16.1
27	38.5	11.4	10.4	11.2	26.5	34.2	259.9	58.7	35.1	23.5	45.4	15.7
28	38.0	11.4	10.5	11.2	27.3	34.2	185.0	58.7	35.1	24.8	43.2	15.0
29	37.7	47.7	10.6	11.4	28.1	31.9	140.2	60.6	35.1	26.0	41.1	14.3
30	37.4		10.5	12.0	42.7	29.8	101.6	62.6	35.1	27.3	35.1	14.3
31	37.0		10.4		61.3		69.6	54.9		27.3		14.3
TOTAL	1268.1	600.8	493.4	401.3	595.1	759.4	3322.3	2498.6	3063.3	993.7	919.5	677.4
MEAN	40.91	20.92	15.92	13.38	19.20	25.31	107.17	80.60	102.11	32.05	30.65	21.85
ANNUAL MEAN												42.47

Table 1-14 Revised Daily Discharge at Bante G.S.
(1973)

(m³/sec)

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JULY.	AUG.	SEP.	OCT.	NOV.	DEC.
1	14.3	11.7	13.5	12.7	8.9	12.3	25.0	28.1	29.8	83.2	62.6	52.4
2	14.3	11.7	13.5	11.4	8.9	18.4	33.3	27.7	29.8	81.6	62.6	52.4
3	14.3	11.7	13.2	9.6	9.4	27.3	32.4	27.3	29.8	80.0	58.2	52.4
4	14.3	11.7	13.0	7.9	9.9	39.0	31.5	28.6	31.0	79.3	54.0	53.0
5	14.3	11.7	12.7	7.9	10.2	29.8	26.5	30.0	32.4	78.5	50.0	53.6
6	14.3	12.5	12.3	7.9	10.6	22.2	22.2	31.5	32.4	126.0	50.0	51.8
7	14.3	13.5	12.0	7.8	10.9	16.8	23.1	32.4	32.4	185.0	50.0	50.0
8	13.9	16.8	11.7	7.6	10.5	12.7	24.0	33.3	37.7	255.6	48.2	50.0
9	13.7	20.8	11.4	7.5	10.1	14.3	25.0	30.6	43.6	168.6	46.5	50.0
10	13.5	17.7	11.1	8.2	10.0	16.2	25.7	28.1	50.0	99.8	48.4	50.0
11	13.5	14.9	10.7	8.9	9.9	18.4	26.5	27.6	56.7	86.4	50.4	50.0
12	13.5	12.7	10.4	9.1	8.6	25.0	25.7	27.0	64.0	74.0	52.4	50.0
13	13.4	12.3	10.9	9.4	17.0	17.3	25.0	26.5	76.2	74.5	50.0	51.2
14	13.2	12.0	11.4	9.2	35.1	15.3	22.2	28.5	89.6	75.0	47.7	52.4
15	13.1	11.7	10.4	9.0	21.5	13.5	19.6	30.6	77.5	75.5	61.3	52.0
16	12.9	11.4	9.4	8.9	12.7	13.2	17.3	29.3	66.3	79.3	77.0	51.6
17	12.7	11.5	9.0	9.0	11.4	13.0	18.4	28.1	56.1	83.2	94.1	51.2
18	12.7	11.6	8.7	9.1	10.4	12.7	19.6	28.4	47.1	112.5	113.1	49.4
19	12.7	11.7	8.4	8.9	10.2	15.5	20.5	28.6	39.0	146.5	134.0	47.7
20	12.6	11.4	8.3	8.6	10.0	19.0	21.5	28.9	38.0	274.9	176.7	47.7
21	12.5	11.2	8.2	8.7	9.9	13.7	22.4	31.9	37.0	460.5	225.4	47.7
22	12.3	11.2	8.3	8.8	10.2	10.4	23.3	35.1	37.7	771.2	156.3	46.9
23	12.2	11.2	8.4	8.9	10.6	18.4	24.3	36.1	38.4	357.8	99.8	46.2
24	12.0	11.1	8.2	8.9	10.5	33.3	25.4	37.0	39.0	150.8	83.2	45.4
25	11.7	11.0	7.9	8.9	10.4	54.9	26.5	33.9	60.0	96.4	76.2	54.9
26	11.4	10.9	7.9	9.1	11.4	28.9	27.3	30.9	86.4	83.2	69.6	65.4
27	13.2	10.9	8.9	9.4	12.5	13.5	28.1	28.1	69.6	81.1	67.5	52.4
28	15.6	10.9	9.9	9.0	13.9	13.7	28.9	25.0	54.9	79.0	65.4	41.1
29	18.4		12.2	8.6	26.9	13.9	29.8	22.2	64.0	77.0	62.6	40.4
30	15.3		15.7	8.2	47.7	19.0	30.6	25.0	72.5	80.8	60.0	39.7
31	12.7		13.9		25.7		29.8	28.1		84.8		39.0
TOTAL	418.8	349.4	331.5	267.1	435.9	591.6	781.4	914.4	1518.9	4642.0	2353.2	1537.9
MEAN ANNUAL MEAN	13.51	12.48	10.69	8.90	14.06	19.72	25.21	29.50	50.63	149.74	78.64	49.61
												38.54

Table 11-15 Revised Daily Discharge at Bante G.S.
(1974)

(m³/sec)

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JULY.	AUG.	SEP.	OCT.	NOV.	DEC.
1	37.0	22.2	13.9	9.9	16.2	28.1	62.6	89.6	58.7	24.3	47.7	43.2
2	37.0	21.7	13.5	10.2	13.5	30.6	60.6	89.6	60.0	24.3	57.4	43.2
3	36.1	21.3	13.1	10.6	17.3	33.3	58.7	88.5	51.2	24.6	68.2	42.2
4	35.1	20.8	12.7	10.0	17.3	31.9	58.0	87.4	43.2	25.0	80.0	41.1
5	34.7	20.8	14.3	9.4	17.3	30.6	57.4	86.4	31.9	21.7	64.0	40.1
6	34.4	20.8	16.2	9.9	17.3	33.7	59.1	83.2	22.8	18.8	50.0	39.0
7	34.0	22.2	14.8	10.4	17.3	37.0	60.9	80.0	22.2	16.2	55.5	38.4
8	33.6	23.5	13.5	10.9	17.3	39.0	62.6	78.5	21.5	15.7	61.3	37.7
9	33.3	24.3	13.0	11.4	13.7	41.1	60.6	77.0	20.8	15.3	54.0	37.0
10	30.2	25.0	12.5	12.0	11.2	43.2	58.7	83.2	23.2	31.0	47.3	35.1
11	27.3	25.7	12.0	12.3	15.3	43.8	59.3	89.6	25.7	56.1	41.1	33.3
12	27.0	23.9	11.9	12.7	21.5	44.3	60.0	96.4	26.9	53.2	42.2	31.9
13	26.8	22.2	11.7	11.9	29.8	47.1	59.1	112.5	28.1	50.4	43.2	30.6
14	26.5	21.5	12.2	11.3	25.0	50.0	58.2	130.0	28.1	47.7	42.2	52.4
15	26.1	20.8	12.7	10.6	20.8	53.2	57.4	71.0	28.1	47.1	41.1	81.6
16	25.7	20.8	11.8	13.3	19.9	56.5	59.3	65.4	28.1	46.5	43.2	118.2
17	25.4	20.8	11.1	17.3	19.0	60.0	61.3	64.5	26.9	97.2	45.4	83.2
18	25.0	20.8	10.4	13.7	19.0	54.9	62.6	63.5	25.7	168.6	47.7	54.9
19	25.2	21.2	10.4	11.2	19.0	50.0	64.0	62.6	23.2	119.5	47.7	48.8
20	25.5	21.5	10.4	11.6	19.0	47.1	65.8	61.3	20.8	79.0	47.7	43.2
21	25.7	17.6	10.1	12.1	18.1	44.3	67.7	60.0	20.4	47.7	46.5	46.2
22	25.7	14.3	9.9	12.7	17.3	46.2	69.6	57.4	20.0	43.2	45.4	49.2
23	25.7	13.8	9.7	12.3	18.1	48.1	74.0	54.9	19.6	39.0	45.0	52.4
24	26.9	13.2	9.5	12.0	19.0	50.0	78.5	55.3	19.6	37.5	44.7	51.2
25	28.1	12.7	9.4	13.1	20.5	54.2	78.5	55.7	19.6	36.1	44.3	50.0
26	27.0	12.7	9.4	14.3	22.2	58.7	78.5	56.1	20.2	36.7	44.3	50.0
27	26.0	12.7	9.4	13.5	22.2	58.0	77.0	56.7	20.8	37.4	44.3	50.0
28	25.0	13.5	9.4	12.7	22.2	57.4	75.5	57.4	20.6	38.0	43.8	49.2
29	24.6	13.5	9.4	12.0	22.2	58.7	74.0	56.7	20.4	39.5	43.2	48.4
30	24.3	9.6	9.6	13.9	24.3	61.3	75.0	56.1	20.2	41.1	43.2	47.7
31	23.5	9.6	9.6	26.5	26.5	77.0	77.0	57.4	20.2	44.3	43.2	47.7
TOTAL	888.4	552.3	357.5	359.2	599.3	1392.3	2032.0	2283.9	818.5	1422.7	1471.6	1517.1
MEAN	28.66	19.93	11.53	11.97	19.33	46.41	65.55	93.67	29.28	45.89	49.05	48.94
ANNUAL MEAN												37.33

Table 11-6 Revised Daily Discharge at Bante G.S.
(1975)

(m³/sec)

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JULY.	AUG.	SEP.	OCT.	NOV.	DEC.
1	47.7	31.5	10.6	15.3	11.2	11.2	11.2	12.7	47.7	45.4	21.5	13.9
2	47.1	31.5	10.6	16.2	11.2	11.2	12.0	12.3	45.4	28.9	23.5	13.9
3	46.5	31.5	10.6	16.5	11.1	11.2	12.0	12.7	40.1	21.5	22.2	13.5
4	45.4	31.0	10.5	16.8	11.0	10.9	13.9	13.1	40.1	19.0	27.3	14.8
5	44.3	30.6	10.4	19.2	10.9	11.2	16.8	15.3	41.1	20.2	37.0	13.9
6	43.2	30.2	10.6	21.9	10.8	11.4	15.7	11.7	44.3	22.2	45.4	13.9
7	43.2	29.8	10.9	25.0	10.6	11.2	14.8	12.0	37.0	21.5	44.3	13.5
8	43.8	27.6	10.9	22.2	10.0	11.2	13.5	12.7	45.4	20.8	42.2	13.5
9	44.3	25.5	10.9	19.6	9.4	10.9	12.7	12.7	46.5	19.6	39.0	13.5
10	43.2	23.5	10.9	15.7	10.0	11.2	12.7	12.7	45.4	21.5	36.1	13.5
11	43.2	23.2	10.6	12.7	10.7	11.2	12.0	12.7	53.6	18.4	29.8	13.5
12	42.2	22.8	10.4	12.3	11.4	11.2	10.9	34.2	57.4	16.8	25.7	13.1
13	41.1	20.2	11.2	12.0	11.4	11.4	11.7	31.5	71.0	16.2	25.7	13.1
14	41.1	17.8	12.0	11.7	11.4	11.2	11.4	29.8	72.5	16.8	20.2	12.7
15	41.1	17.3	18.4	11.6	11.2	10.6	10.9	27.3	74.0	17.3	18.4	12.7
16	40.1	16.8	28.1	11.4	10.9	11.4	10.6	30.6	150.8	16.2	18.4	12.7
17	39.0	16.2	41.1	17.3	10.9	11.2	16.2	77.0	134.0	16.8	18.4	13.1
18	39.0	17.6	42.2	26.5	10.9	11.2	15.3	71.0	122.1	16.8	18.4	31.5
19	39.0	19.0	43.2	25.5	10.9	11.2	14.3	64.0	110.6	16.8	17.8	46.5
20	39.0	19.0	23.9	24.5	10.8	11.2	13.1	69.6	105.2	31.5	19.0	50.0
21	39.0	19.0	16.8	23.5	10.6	11.7	13.1	77.0	107.0	26.5	18.4	50.0
22	39.0	17.3	14.9	19.6	10.8	11.4	12.0	69.6	93.0	23.5	18.4	43.2
23	38.0	15.7	13.4	16.2	10.9	11.2	14.8	62.6	83.2	24.3	17.8	46.5
24	37.0	14.3	12.0	16.5	11.1	11.2	15.3	64.0	78.5	23.5	17.8	46.5
25	37.4	14.1	12.0	16.8	11.3	12.3	12.0	64.0	91.3	22.2	17.8	45.4
26	37.7	13.9	12.0	14.9	11.4	12.3	14.3	64.0	78.5	21.5	16.8	43.2
27	38.0	13.3	12.0	13.4	11.3	11.4	14.8	58.7	126.0	21.5	17.3	54.9
28	37.0	12.7	12.0	12.0	11.2	11.4	15.7	57.4	293.8	20.8	15.3	62.6
29	36.1		12.7	11.4	11.3	11.7	14.3	52.4	52.4	20.8	14.3	57.4
30	35.1		13.5	10.9	11.4	11.7	13.9	50.0	61.3	21.5	13.9	57.4
31	34.2		14.3		11.4		13.9	48.8		20.8		62.6
TOTAL	1262.0	602.9	493.6	509.1	339.4	339.7	415.8	1267.5	2449.2	671.1	718.1	926.5
MEAN	40.71	21.53	15.92	16.97	10.95	11.32	13.41	40.89	81.64	21.65	23.94	29.89
ANNUAL MEAN												27.40

Table 11-17 Revised Daily Discharge at Bante U.S.
(1976)

(m³/sec)

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JULY.	AUG.	SEP.	OCT.	NOV.	DEC.
1	45.4	14.3	11.7	12.0	14.3	99.8	62.6	60.0	20.2	58.7	24.3	14.8
2	42.2	13.9	11.7	12.0	14.8	98.1	61.3	51.2	18.4	53.6	23.5	14.8
3	44.3	13.9	11.7	11.4	14.3	101.6	62.6	45.4	22.2	47.7	25.0	12.7
4	37.0	13.5	11.4	11.2	14.3	101.6	60.0	52.4	26.5	39.0	22.8	13.5
5	51.2	13.5	11.4	12.0	20.2	84.8	54.9	56.1	25.7	37.0	28.9	13.9
6	58.7	13.5	13.1	15.3	22.2	81.6	53.6	41.1	25.0	28.9	25.7	15.3
7	52.4	13.9	14.8	16.2	19.6	78.5	56.1	45.4	32.4	41.1	24.3	15.3
8	45.4	13.5	29.8	28.1	18.4	74.0	50.0	40.1	37.0	60.0	24.3	15.3
9	42.2	14.8	35.1	35.1	16.2	69.6	50.0	46.5	39.0	50.0	23.5	14.8
10	42.2	13.9	30.6	27.3	14.8	66.8	50.0	57.4	35.1	46.5	28.1	13.9
11	42.2	13.9	25.7	19.6	15.7	64.0	51.2	44.3	35.1	39.0	25.0	13.5
12	42.2	13.1	19.0	19.0	16.8	61.3	50.0	71.0	35.1	33.3	22.8	15.3
13	46.5	13.1	14.8	17.3	15.3	61.3	48.8	77.0	31.5	38.0	25.0	15.7
14	46.5	12.7	13.5	16.2	14.8	64.0	46.5	60.0	37.0	48.8	22.8	14.8
15	43.2	12.3	12.7	15.3	14.8	66.8	69.6	68.2	41.1	28.1	34.2	14.8
16	44.3	13.9	12.3	14.3	14.8	64.0	61.3	46.5	31.5	23.5	26.5	14.8
17	34.2	13.1	12.0	13.5	14.3	61.3	56.1	62.6	44.3	15.7	25.0	14.8
18	30.6	12.7	13.1	12.7	13.9	61.3	50.0	61.3	30.6	9.9	22.8	15.3
19	28.1	12.3	11.7	19.0	14.3	61.3	41.1	44.3	30.6	9.4	21.5	13.9
20	23.5	12.0	11.4	20.8	14.3	60.0	57.4	34.2	28.9	44.3	21.5	15.3
21	19.0	12.0	11.4	19.6	15.7	60.0	56.1	39.0	50.0	28.9	19.6	12.0
22	20.2	11.4	11.4	17.3	28.1	57.4	60.0	37.0	56.1	26.5	42.2	13.1
23	20.2	11.2	11.4	15.7	136.1	53.6	58.7	52.4	37.0	25.0	22.8	13.9
24	19.0	11.7	11.7	15.3	247.2	52.4	60.0	41.1	28.1	28.1	22.8	13.5
25	19.0	12.3	12.0	14.8	250.0	50.0	58.7	29.8	23.5	28.1	21.5	13.1
26	17.8	12.7	11.7	14.3	170.9	50.0	58.7	33.3	23.5	28.1	19.6	13.1
27	17.8	13.1	11.4	14.3	138.1	50.0	60.0	33.3	26.5	22.8	19.6	12.7
28	16.8	12.3	11.4	13.9	112.5	48.8	58.7	39.0	34.2	22.2	16.8	12.7
29	15.7	12.0	11.4	14.8	103.4	46.5	60.0	51.2	44.3	23.5	17.3	12.7
30	15.3	12.0	12.7	14.3	101.6	43.2	61.3	28.9	35.1	22.2	17.3	12.3
31	15.3	12.3	12.3	14.3	101.6	64.0	64.0	25.0	27.3	27.3	17.3	12.0
TOTAL	1038.4	376.5	456.3	502.6	1723.3	1993.6	1749.3	1475.0	985.0	1035.2	717.0	433.6
MEAN	33.50	12.98	14.72	16.75	55.59	66.45	56.43	47.58	32.85	33.39	23.9	13.99
ANNUAL MEAN												34.01

Table 12-1 Daily Discharge Records (Original) at Bato G.S.
(1959)
(m³/sec)

DAY	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1	20.20	9.34	15.70	17.50	12.39	15.70	15.70	27.20	57.60	79.00	27.20	76.00
2	18.40	9.34	12.39	17.50	12.39	13.00	28.50	27.60	55.30	69.10	27.20	71.40
3	17.50	8.73	15.70	13.90	12.39	11.78	15.70	38.60	85.00	69.10	27.20	71.40
4	17.50	9.34	47.60	15.70	12.39	11.17	13.00	31.10	73.70	100.00	27.20	76.00
5	16.60	8.73	69.10	17.50	13.00	10.56	10.56	21.10	62.20	133.00	28.50	130.00
6	15.70	8.12	45.80	19.30	13.90	10.56	10.56	21.10	62.20	115.00	27.20	97.00
7	15.70	8.12	29.80	19.30	14.80	10.56	10.56	21.10	73.70	143.80	27.20	124.00
8	15.70	7.51	21.10	19.30	11.78	10.56	11.78	17.50	64.50	109.00	35.00	143.80
9	14.80	6.90	18.40	18.40	11.78	11.78	11.17	17.50	79.00	79.00	28.50	121.00
10	13.90	7.51	14.80	17.50	11.78	9.95	10.56	19.30	53.00	64.50	27.20	103.00
11	13.90	8.12	14.80	16.60	11.78	9.34	10.56	23.30	53.00	59.90	27.20	85.00
12	13.90	14.80	15.70	15.70	11.78	9.95	10.56	20.20	82.00	51.20	27.20	76.00
13	13.90	15.70	16.60	15.70	11.78	9.34	13.00	23.30	109.00	49.40	44.00	73.70
14	13.00	9.34	14.80	15.70	12.39	9.34	10.56	20.20	97.00	49.40	53.00	69.10
15	12.39	8.12	15.70	15.70	13.90	9.95	9.34	19.30	62.20	47.60	109.00	66.80
16	12.39	7.51	66.80	13.90	14.80	9.95	11.78	29.80	47.60	44.00	79.00	62.20
17	12.39	6.49	103.00	13.90	14.80	10.56	11.78	163.30	42.20	73.70	395.30	62.20
18	10.56	6.49	71.40	13.90	13.90	16.60	11.78	76.00	42.20	121.00	892.00	64.50
19	10.56	6.08	53.00	14.80	55.30	16.60	11.17	62.20	49.40	106.00	321.80	62.20
20	9.95	10.56	44.00	15.70	57.60	25.90	10.56	62.20	40.40	53.00	202.30	66.80
21	9.95	10.56	33.70	14.80	59.90	18.40	13.90	57.60	36.80	49.40	136.00	97.00
22	9.95	10.56	28.50	14.80	59.90	15.70	13.90	45.80	33.70	44.00	130.00	143.80
23	9.95	11.17	23.30	15.70	36.80	15.70	11.78	36.80	32.40	38.60	112.00	124.00
24	9.95	11.17	21.10	15.70	35.00	13.00	11.78	33.70	73.70	38.60	103.00	109.00
25	9.34	11.17	21.10	13.90	33.70	12.39	11.78	51.20	121.00	40.40	88.00	97.00
26	9.34	10.56	21.10	13.90	19.30	11.17	13.00	45.80	139.90	36.80	103.00	85.00
27	9.34	10.56	21.10	13.90	14.80	10.56	42.20	64.50	127.00	32.40	94.00	82.00
28	9.34	12.39	22.00	13.90	15.70	9.95	28.50	55.30	238.50	32.40	97.00	76.00
29	8.73	21.10	21.10	12.39	51.20	13.90	13.90	45.80	124.00	29.80	88.00	71.40
30	8.73	21.10	21.10	12.39	35.00	13.90	36.80	53.00	94.00	27.20	85.00	66.80
31	8.73	19.30	19.30	12.39	19.30	40.40	40.40	69.10	29.80	29.80	85.00	69.10
Total	392.29	264.99	959.59	468.88	725.23	377.82	487.12	1300.50	2288.50	2016.10	3469.20	2723.20
Mean	12.65	9.46	30.95	15.63	24.10	12.59	15.71	41.95	76.28	65.04	115.64	87.85

Table #2 Daily Discharge Records (Original) at Bato G.S.
(1960)
(m³/sec)

DAY	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1	71.40	44.00	139.90	23.30	22.00	32.40	133.00	57.60	133.70	186.70	71.40	28.50
2	73.70	36.80	112.00	22.00	21.10	38.60	277.70	55.30	133.00	139.90	64.50	28.50
3	69.10	35.00	103.00	24.60	21.10	45.80	182.80	62.20	143.80	121.00	55.30	28.50
4	66.80	35.00	85.00	24.60	21.10	53.00	139.90	59.90	155.50	109.00	47.60	24.60
5	62.20	35.00	73.70	147.70	19.30	49.40	118.00	57.60	206.20	97.00	44.00	25.90
6	76.00	33.70	69.10	55.30	19.30	45.80	103.00	55.30	341.40	85.00	40.40	27.20
7	71.40	32.40	62.20	76.00	19.30	51.20	118.00	223.80	336.50	73.70	38.60	29.88
8	71.40	35.00	59.90	59.90	19.30	51.20	106.00	210.10	248.30	210.10	35.00	29.80
9	73.70	38.60	53.00	45.80	19.30	49.40	88.00	194.50	198.40	163.30	33.70	29.80
10	69.10	31.10	49.40	42.20	22.00	47.60	82.00	202.90	218.90	130.00	32.40	27.20
11	62.20	28.50	47.60	38.60	29.80	45.80	79.00	297.30	210.10	124.00	31.10	27.20
12	62.20	25.90	45.80	35.00	40.40	44.00	73.70	302.20	291.40	121.00	29.80	27.20
13	69.10	24.60	44.00	31.10	32.40	44.00	73.70	331.60	233.60	961.00	29.80	25.90
14	59.90	29.80	42.20	28.50	29.80	40.40	79.00	506.20	186.70	1372.80	29.80	24.60
15	53.00	44.00	42.20	28.50	27.20	38.60	82.00	405.10	167.20	671.40	73.70	24.60
16	49.40	118.00	42.20	27.20	25.90	33.70	88.00	282.60	155.50	194.50	64.50	24.60
17	53.00	103.00	40.40	24.60	25.90	47.60	71.40	405.10	147.70	178.90	59.90	24.60
18	53.00	85.00	35.00	23.30	25.90	49.40	66.80	277.70	171.10	167.20	57.60	23.30
19	51.20	79.00	32.40	22.00	28.50	42.20	59.90	248.30	214.00	155.50	57.60	22.00
20	49.40	69.10	28.50	20.20	38.60	38.60	59.90	223.80	151.60	139.90	55.30	22.00
21	49.40	62.20	27.20	17.50	32.40	33.70	73.70	559.30	385.50	130.00	47.60	20.20
22	47.60	130.00	27.20	16.60	57.60	29.80	64.50	683.20	238.50	121.00	42.20	20.20
23	45.80	103.00	25.90	25.90	64.50	28.50	64.50	588.80	194.50	109.00	42.20	20.20
24	42.20	109.00	24.60	42.20	40.40	28.50	59.90	414.90	178.90	100.00	38.60	20.20
25	38.60	147.70	24.60	35.00	32.40	25.90	59.90	312.00	171.10	91.00	38.60	20.20
26	40.40	214.00	22.00	32.40	45.80	91.00	55.30	238.50	186.70	79.00	36.80	18.40
27	42.20	316.90	22.00	25.90	38.60	124.00	55.30	198.40	171.10	73.70	33.70	18.40
28	38.60	321.80	22.00	29.80	32.40	297.30	55.30	163.30	151.60	64.50	31.10	53.00
29	35.00	198.40	22.00	24.60	64.50	182.80	51.20	143.80	139.90	55.30	31.10	45.80
30	44.00		24.60	20.20	42.20	147.70	51.20	136.00	133.00	79.00	28.50	38.60
31	51.20		24.60		35.00		55.30	136.00		73.70		33.70
Total	1742.20	2566.50	1474.20	1070.50	994.00	1877.90	2727.9	8032.70	5995.70	6370.10	1322.40	834.70
Mean	56.20	91.66	47.55	35.68	32.06	62.60	88.00	259.05	199.86	205.70	44.01	26.93

Table 1-3 Daily Discharge Records (Original) at Bato G.S.
(1961)
(m³/sec)

DAY	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1	31.10	20.20	11.78	14.80	13.90	17.50	147.70	59.50	130.00	51.00	53.00	35.00
2	29.80	20.20	11.78	14.80	13.90	17.50	155.50	55.30	118.00	46.00	53.00	35.00
3	28.50	20.20	11.78	14.80	13.90	17.50	133.00	53.00	103.00	47.50	51.20	32.40
4	25.90	20.20	11.78	14.80	13.90	15.70	124.00	51.20	97.00	52.00	45.80	32.40
5	23.30	20.20	44.00	13.00	13.90	15.70	106.00	51.20	85.00	56.00	45.80	31.10
6	23.30	20.20	21.10	13.00	16.60	15.70	91.00	47.60	163.30	82.00	49.40	29.80
7	23.30	20.20	21.10	13.00	14.80	14.80	85.00	47.60	155.50	90.00	47.60	27.20
8	23.30	18.40	36.80	12.39	13.90	15.70	97.00	64.50	124.00	194.50	49.40	27.20
9	22.00	18.40	21.10	11.78	13.90	15.70	64.50	49.40	109.00	190.60	64.50	27.20
10	21.10	18.40	35.00	11.78	13.90	15.70	109.00	49.40	97.00	178.90	59.90	27.20
11	21.10	18.40	62.20	11.78	17.50	15.70	94.00	44.00	91.00	167.20	66.80	24.60
12	21.10	18.40	59.90	11.78	17.50	15.70	79.00	40.40	82.00	155.50	59.90	24.60
13	21.10	18.40	33.70	11.78	17.50	27.20	194.50	85.00	85.00	159.40	55.30	24.60
14	21.10	16.60	25.90	11.78	21.10	22.00	316.90	73.70	79.00	159.40	53.00	24.60
15	21.10	16.60	21.10	11.78	21.10	21.10	182.80	85.00	71.40	167.20	51.20	24.60
16	22.00	15.70	20.20	18.40	36.80	21.10	143.80	139.90	73.70	147.70	49.40	24.60
17	23.30	14.80	19.30	13.00	33.70	21.10	175.00	171.10	79.00	127.00	47.60	27.20
18	23.30	13.00	17.50	13.00	42.20	20.20	210.10	112.00	115.00	182.80	45.80	27.20
19	23.30	13.00	23.30	23.30	36.80	19.30	182.80	112.00	97.00	233.60	44.00	24.60
20	23.30	13.00	25.90	24.60	35.00	29.80	151.60	115.00	182.80	258.10	42.20	24.60
21	23.30	13.00	23.30	20.20	33.70	24.60	143.80	121.00	182.80	214.00	42.20	24.60
22	23.30	13.00	21.10	15.70	33.70	28.50	133.00	133.00	206.20	186.70	49.40	27.20
23	21.10	12.39	19.30	21.10	21.10	23.30	115.00	133.00	253.20	178.90	79.00	33.70
24	21.10	11.78	18.40	20.20	31.10	21.10	112.00	139.90	190.60	186.70	109.00	29.80
25	21.10	11.78	16.60	16.60	25.90	21.10	112.00	127.00	167.20	159.40	103.00	28.50
26	21.10	11.78	14.80	17.50	25.90	66.80	109.00	115.00	110.00	143.80	91.00	27.20
27	21.10	11.78	14.80	17.50	21.10	297.30	97.00	103.00	90.00	139.90	76.00	27.20
28	18.40	11.78	14.80	17.50	21.10	127.00	94.00	100.00	72.00	112.00	55.30	27.20
29	18.40	16.60	16.60	17.50	17.50	130.00	85.00	127.00	62.00	88.00	44.00	29.80
30	18.40	16.60	16.60	15.70	17.50	121.00	82.00	115.00	56.00	69.10	36.80	28.50
31	20.20	15.70	15.70	17.50	17.50	79.00	79.00	109.00	56.90	56.90	24.60	24.60
Total	699.80	451.79	727.22	464.85	687.90	1235.40	4005.00	6829.70	3527.70	4281.80	1720.50	864.00
Mean	22.57	16.14	23.46	15.50	22.19	41.18	129.19	91.28	117.59	138.12	57.35	27.87

Table 12-4 Daily Discharge Records (Original) at Bato G.S.
(1962)
(m³/sec)

DAY	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1	25.90	20.20	16.60	****	55.48	71.98	121.24	81.82	135.34	41.80	5.40	71.98
2	24.60	19.30	20.00	****	60.04	41.80	138.16	76.90	138.16	35.50	5.20	55.48
3	24.60	18.40	23.30	****	39.70	46.36	138.16	60.04	131.34	35.50	5.30	57.76
4	22.00	18.40	18.40	****	33.40	37.60	135.34	62.32	138.16	35.50	5.30	55.48
5	27.20	18.40	17.50	****	33.40	33.40	143.80	62.32	138.16	35.50	5.90	50.92
6	28.50	18.40	15.70	****	31.30	37.60	152.80	57.76	135.34	35.50	712.00	46.36
7	32.40	16.60	****	****	31.30	37.60	143.80	55.48	129.70	39.70	478.60	41.80
8	27.20	16.60	15.60	****	31.30	33.40	143.80	74.44	161.80	39.70	155.80	37.60
9	27.20	16.60	15.60	****	29.20	29.20	155.80	71.98	161.80	33.40	29.20	37.60
10	25.90	16.60	14.80	****	48.64	35.50	149.80	71.98	167.80	31.30	16.64	33.40
11	24.60	16.60	14.80	****	37.60	37.60	161.80	71.98	161.80	31.30	76.90	33.40
12	24.60	17.50	14.80	****	41.80	25.00	161.80	81.82	155.80	31.30	10.16	27.10
13	22.00	16.60	13.20	****	37.60	16.64	164.80	115.60	161.80	33.40	6.00	27.20
14	22.00	15.70	14.00	****	12.40	19.76	170.80	118.42	161.80	37.60	5.80	27.10
15	21.10	15.70	14.00	****	12.40	20.80	323.50	124.06	161.80	35.50	5.30	25.00
16	19.30	17.50	14.00	****	11.60	20.80	339.10	112.96	161.80	33.40	5.30	27.10
17	18.40	17.50	13.20	29.20	11.60	27.10	323.50	112.96	158.80	35.50	5.30	19.76
18	18.40	17.50	14.00	37.60	11.60	149.80	319.60	107.68	167.80	33.40	5.30	19.76
19	18.40	15.70	14.00	46.36	11.60	132.52	265.98	110.32	173.80	41.80	5.50	18.72
20	20.20	15.70	15.60	41.80	11.60	132.52	249.82	115.60	183.34	44.08	5.40	18.72
21	20.20	14.80	17.68	37.60	12.40	149.80	242.74	118.42	186.52	50.92	5.30	17.68
22	21.10	14.80	17.68	29.20	60.04	149.80	212.32	118.42	192.88	44.08	5.30	18.72
23	19.30	14.80	293.20	25.00	67.06	143.80	183.34	118.42	199.24	44.08	5.80	16.64
24	19.30	14.80	311.80	22.90	57.76	107.68	183.34	118.42	331.30	31.30	6.80	16.64
25	21.10	14.80	258.36	18.72	64.60	105.04	164.80	135.34	391.60	33.40	554.08	16.64
26	21.10	14.80	****	19.76	67.06	50.92	152.80	135.34	500.80	57.76	363.04	17.68
27	20.20	14.80	****	16.64	67.06	33.40	149.80	134.34	429.94	50.92	41.80	27.10
28	19.30	14.80	****	17.68	64.60	29.20	129.70	135.34	339.10	44.08	44.08	25.00
29	21.10	****	****	18.72	94.48	22.90	124.06	140.98	300.64	49.70	346.90	20.80
30	21.10	****	****	19.76	94.48	33.40	121.24	167.80	229.12	41.80	315.70	20.80
31	21.10	****	****	84.28	84.28	92.76	124.06	92.76	53.20	53.20	16.64	16.64
Total	699.4	463.90	1195.74	380.94	1327.38	1812.92	5689.60	3170.02	6191.28*	1211.92	3239.10	946.58
Mean	22.56	16.57	38.57	12.69	42.82	60.43	183.54	102.26	206.37	39.09	107.97	30.53

Table 2-5 Daily Discharge Records (Original) at Bato G.S.
(1963)
(m³/sec)

DAY	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1	13.20	11.60	11.60	6.80	5.20	16.64	111.58	69.79	122.64	79.40	109.80	40.40
2	13.20	11.60	11.60	6.80	5.20	14.8	99.31	76.60	169.40	191.12	83.60	43.72
3	13.20	11.60	10.88	6.80	5.20	13.20	76.60	97.72	169.40	142.72	78.00	37.84
4	12.40	11.60	10.16	6.40	5.20	13.20	85.00	79.40	160.00	104.46	73.80	36.56
5	12.40	11.60	11.60	6.80	5.20	11.60	86.59	88.18	151.36	122.64	71.00	35.92
6	12.40	10.16	11.60	6.80	5.20	25.00	89.77	82.20	250.80	97.72	68.58	34.00
7	11.60	11.60	10.88	6.80	5.10	126.88	54.82	89.77	176.45	89.77	66.16	34.00
8	11.60	10.16	10.16	6.00	5.10	132.52	50.74	82.20	178.80	82.20	63.74	34.00
9	11.60	10.16	10.16	6.00	5.10	48.64	47.87	76.60	186.04	79.40	62.53	34.00
10	13.20	10.16	10.16	6.00	5.10	44.08	45.38	66.16	296.50	78.00	58.90	34.00
11	13.20	11.60	11.60	6.80	14.80	48.64	178.80	68.58	230.74	76.60	68.58	34.00
12	11.60	10.16	10.16	6.40	6.40	164.80	122.64	64.95	217.09	73.80	66.16	38.48
13	10.80	10.16	10.16	6.00	5.90	149.80	97.72	60.11	219.82	72.40	52.78	250.80
14	10.16	11.60	9.44	6.00	5.90	135.34	94.34	92.95	160.00	71.00	50.74	85.00
15	11.60	11.60	8.72	6.00	5.80	124.06	208.90	357.42	149.20	68.58	48.70	63.74
16	11.60	11.60	8.72	6.00	5.80	89.20	130.52	346.95	142.72	68.58	48.70	66.16
17	10.88	11.60	8.72	6.00	5.40	62.32	118.70	306.40	136.43	66.16	52.72	61.32
18	11.60	11.60	8.00	6.00	5.70	46.36	108.02	322.90	138.40	66.16	48.70	61.32
19	10.88	18.72	8.72	6.40	5.70	48.64	94.54	296.50	130.52	63.74	47.04	56.86
20	10.16	25.00	8.00	5.80	5.70	44.08	88.18	191.12	118.70	63.74	46.21	55.84
21	11.60	37.60	7.60	6.00	5.60	41.80	97.72	174.10	122.64	62.53	44.55	104.46
22	11.60	37.60	7.60	6.00	5.60	67.06	83.60	169.40	130.52	63.74	42.06	214.36
23	11.60	33.40	7.60	5.90	5.60	64.60	79.40	147.04	126.58	64.95	49.72	44.55
24	12.40	33.40	7.60	5.80	5.60	64.60	69.79	142.72	115.14	63.74	52.78	34.00
25	11.60	16.64	6.80	5.80	5.80	99.76	73.80	132.49	100.90	61.32	47.87	34.00
26	12.40	16.64	6.80	5.80	5.50	97.12	91.36	124.61	151.36	61.32	47.87	34.00
27	11.60	12.40	8.00	5.70	5.50	84.28	91.36	116.92	211.92	62.53	47.04	33.08
28	12.40	11.60	7.60	5.80	5.40	74.44	115.14	178.80	198.74	61.32	46.21	29.10
29	11.60	6.80	6.80	5.80	5.40	531.88	104.46	140.56	236.20	61.32	71.00	33.08
30	13.20	6.80	6.80	5.70	29.20	217.09	96.13	116.92	208.90	99.31	85.00	33.54
31	11.60	6.80	6.80	29.20	29.20	76.60	76.60	111.58	109.80	109.80	85.00	33.54
Total	364.96	443.16	281.04	184.90	227.10	2702.43	2969.38	4471.64	5107.62	2530.07	1800.54	1765.67
Mean	11.90	15.83	9.07	6.16	7.30	90.08	95.79	144.25	170.25	81.62	60.02	56.96

Table 2-4 Daily Discharge Records (Original) at Bato G.S.
(1964)
(m³/sec)

DAY	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV.	DEC.
1	33.54	26.00	27.30	24.40	22.82	28.80	375.44	23.98	44.08	129.70	8.72	186.52
2	33.54	26.00	26.40	24.40	22.82	27.60	47.04	23.84	19.76	124.06	135.34	170.80
3	32.16	26.00	27.30	24.12	22.82	27.60	37.20	29.10	37.60	105.04	110.32	155.80
4	33.54	25.20	27.60	24.12	24.12	27.00	30.78	27.00	37.60	94.48	46.36	140.98
5	34.00	26.00	26.40	24.12	23.00	26.70	30.78	28.20	29.20	31.30	31.30	135.34
6	42.89	25.60	25.60	23.84	23.00	26.40	28.80	31.70	67.06	186.52	48.64	132.52
7	34.00	25.60	24.80	23.84	23.00	30.32	27.30	549.64	64.60	71.98	89.20	126.88
8	33.54	25.60	24.40	23.56	23.00	27.60	27.00	371.20	60.04	71.98	140.98	121.24
9	32.16	25.60	24.12	23.84	23.00	32.16	27.40	256.90	138.16	57.76	86.74	112.96
10	32.62	25.20	23.56	23.56	23.00	47.04	26.20	67.06	173.80	192.88	69.52	105.04
11	40.40	25.00	23.28	23.28	23.00	47.04	24.80	64.60	64.60	249.82	62.32	99.76
12	42.06	25.60	25.20	23.28	23.00	37.20	24.40	62.32	62.32	143.80	143.80	105.04
13	36.56	26.00	24.40	23.00	22.95	35.28	29.40	57.76	86.74	97.12	229.12	118.42
14	34.00	31.24	24.40	23.00	22.95	31.24	25.60	44.08	62.32	84.28	282.04	121.24
15	33.54	27.60	24.26	22.90	26.70	29.40	26.00	37.60	176.98	79.36	331.30	706.99
16	32.16	27.00	24.12	22.86	34.00	29.10	27.00	19.76	199.24	55.48	371.20	79.12
17	30.78	26.00	24.12	22.86	29.40	29.40	24.12	15.60	140.98	35.50	246.28	312.00
18	31.24	25.80	23.84	22.86	25.60	29.40	23.00	11.60	135.34	25.00	229.12	250.80
19	28.80	25.20	23.70	22.86	25.20	34.00	24.80	10.88	118.42	18.72	186.52	149.20
20	28.80	24.60	23.70	22.82	104.46	35.92	24.40	46.36	99.76	16.64	323.50	100.90
21	29.10	24.40	23.98	22.82	47.04	38.48	23.84	115.60	112.96	16.64	300.64	104.46
22	28.20	25.00	24.12	22.78	36.56	44.55	23.42	84.28	121.24	60.04	304.36	109.80
23	28.50	24.40	24.80	22.78	47.04	40.40	23.14	57.76	129.70	50.92	242.74	115.14
24	27.60	24.40	24.12	22.78	47.87	40.40	23.28	46.36	112.96	35.50	222.4	130.52
25	27.30	24.26	24.12	22.78	38.48	39.12	24.26	41.80	110.32	25.00	235.84	126.58
26	27.30	24.40	24.12	23.42	33.08	37.20	26.70	41.80	102.40	22.90	222.40	122.64
27	27.30	25.60	24.12	23.56	39.12	39.12	26.70	41.80	99.76	18.72	215.68	115.14
28	27.30	25.60	24.60	23.56	31.24	39.76	28.90	53.20	107.68	27.10	199.24	115.14
29	27.30	25.60	25.00	22.86	34.64	40.40	25.20	41.80	112.96	11.60	196.06	108.02
30	26.70		25.00	22.82	31.70	332.99	26.00	55.48	112.96	10.88	155.80	99.31
31	26.40		24.40		29.40		25.20	48.64		20.80		596.13
Total	983.33	744.50	766.88	699.68	984.01	1331.62	1188.00	2407.70	2941.54	2171.52	5467.48	5474.43
Mean	31.72	26.59	24.74	23.32	31.74	44.39	38.32	77.67	98.05	70.05	182.25	176.59

Table 127 Daily Discharge Records (Original) at Bato G.S.
(1965) (m³/sec)

DAY	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1	92.95	153.52	53.80	24.80	35.92	35.28	27.60	32.62	72.40	42.89	45.38	54.82
2	91.36	155.68	31.70	24.12	26.70	32.62	79.40	28.20	51.76	55.84	44.55	53.80
3	91.36	149.20	31.24	24.12	26.00	34.00	46.21	27.60	32.16	49.72	42.89	56.86
4	91.36	138.40	29.86	34.64	26.00	30.32	53.80	26.70	31.24	58.90	41.23	54.82
5	89.77	115.14	29.40	28.80	27.00	53.80	41.23	26.40	30.32	58.90	41.23	53.80
6	89.77	94.54	28.80	28.50	26.00	33.54	39.76	26.20	29.86	80.80	44.55	54.82
7	86.59	92.95	29.10	27.30	26.00	29.40	40.40	25.80	30.78	128.55	89.77	57.88
8	85.00	88.18	28.50	26.70	53.80	29.86	42.06	25.80	29.40	155.68	75.20	53.80
9	82.20	86.59	29.86	26.70	27.90	27.90	40.40	25.60	27.00	106.24	62.53	53.80
10	79.40	82.20	29.86	26.70	26.70	27.30	42.89	25.40	58.90	83.60	57.88	51.76
11	78.00	72.40	29.10	26.70	25.80	28.20	115.14	25.20	36.56	82.20	60.11	51.76
12	76.60	60.11	28.20	26.70	28.80	26.20	106.24	24.80	104.46	76.60	53.88	51.76
13	85.00	55.84	27.90	26.70	25.80	32.16	42.06	24.40	118.70	68.58	100.90	55.84
14	97.72	54.82	27.60	26.40	25.80	32.62	468.32	26.20	42.85	66.16	54.82	57.88
15	94.54	51.76	27.60	26.40	49.72	37.20	157.84	30.32	37.20	64.95	71.00	56.86
16	91.36	48.70	27.30	26.40	31.70	33.54	88.18	28.80	33.08	64.95	83.60	56.86
17	85.00	49.72	27.30	26.40	30.78	29.10	67.37	63.74	28.20	64.95	56.86	56.86
18	83.60	49.72	27.30	26.40	28.50	28.50	55.84	47.04	31.24	66.16	57.88	71.00
19	82.20	49.72	27.30	25.20	26.00	27.60	49.72	34.00	174.10	64.95	55.84	67.37
20	80.80	49.72	27.00	39.12	25.60	27.30	45.38	34.00	128.55	66.16	53.80	64.95
21	79.40	48.70	27.00	35.28	25.60	27.00	42.06	29.86	138.40	63.74	53.80	63.74
22	78.00	43.72	27.00	33.54	25.60	26.00	41.23	29.86	120.67	62.53	53.80	61.32
23	78.00	40.40	27.00	26.20	25.40	28.80	37.20	33.08	92.95	62.53	53.80	66.16
24	94.54	39.76	27.00	24.60	25.20	28.50	31.70	29.40	76.60	60.11	52.78	58.90
25	94.54	40.40	27.00	35.92	26.70	25.80	32.16	32.16	67.37	58.90	52.78	58.90
26	92.95	71.00	27.00	29.86	24.80	28.80	37.20	42.06	97.72	56.86	51.76	58.90
27	92.95	66.16	27.60	27.00	25.00	30.78	35.92	41.23	51.76	54.82	58.90	60.11
28	102.68	60.11	50.74	26.20	24.60	29.86	34.00	31.70	58.90	51.76	57.88	64.95
29	88.18		35.92	26.20	26.40	28.50	33.08	34.64	64.95	48.70	56.86	91.36
30	82.20		27.90	25.80	27.90	28.20	32.62	40.40	55.84	47.87	55.84	53.20
31	80.80		25.20		44.55	29.40	29.40	157.84		48.70		44.08
Total	2698.82	2109.16	928.08	839.40	902.27	918.68	2036.41	1111.05	1953.92	2123.30	1742.10	1818.92
Mean	87.06	75.33	29.94	27.98	29.11	30.62	65.69	35.84	65.13	68.49	58.07	58.67

Table 2-7 Daily Discharge Records (Original) at Bato G.S.
(1966) (m³/sec)

DAY	JAN	FEB	MAR	APR	MAY	JUNE'	JULY	AUG	SEPT	OCT	NOV	DEC
1	39.70	31.30	17.68	11.60	4.70	222.75	111.70	109.75	117.50	74.44	12.40	701.98
2	39.70	27.10	17.68	9.44	4.70	214.75	111.70	121.60	115.60	74.44	27.10	647.44
3	37.60	25.00	16.64	7.60	4.70	118.05	111.70	109.75	166.00	71.98	25.00	681.94
4	35.50	22.90	15.60	7.60	4.70	176.80	111.70	111.70	141.25	67.06	18.72	676.93
5	33.40	20.80	29.20	5.90	4.50	166.00	115.60	166.00	115.60	64.60	13.20	632.98
6	29.20	20.80	20.80	5.90	4.50	153.25	119.50	158.35	111.70	60.04	8.72	581.29
7	27.10	20.80	17.68	9.44	4.50	146.05	123.70	153.25	136.75	60.04	8.72	581.29
8	37.60	22.90	16.64	9.44	4.50	141.25	119.50	155.80	127.90	6.40	8.82	567.40
9	35.50	20.80	14.80	5.50	4.50	139.00	109.75	153.25	127.90	7.60	79.36	540.76
10	29.20	20.80	13.20	5.50	10.88	136.75	109.75	148.45	123.70	7.20	138.16	527.44
11	27.10	19.76	13.20	5.50	41.80	134.50	109.75	160.90	119.50	27.10	110.32	514.12
12	27.10	19.76	10.16	5.30	14.00	132.25	109.75	155.80	119.50	7.20	81.82	487.48
13	25.00	18.72	10.16	5.30	11.60	130.00	123.70	155.80	171.40	7.20	67.06	469.72
14	22.90	18.72	8.72	5.30	8.72	134.50	121.60	150.85	143.00	7.60	55.48	545.20
15	19.76	17.68	8.00	5.30	6.00	130.00	117.55	146.05	132.52	8.72	50.92	429.94
16	18.72	17.68	8.00	5.10	5.40	146.05	117.55	143.65	121.24	7.60	46.36	408.64
17	18.72	16.64	7.20	5.10	5.10	121.60	141.25	141.25	110.32	8.00	41.80	395.86
18	17.68	16.64	7.20	5.10	5.10	119.50	119.50	141.25	105.04	19.76	44.08	391.60
19	17.68	15.60	7.20	5.10	256.90	119.50	115.60	141.25	97.12	22.90	71.98	387.52
20	17.68	14.80	7.20	4.90	919.86	119.50	115.60	136.75	91.84	14.80	91.84	379.36
21	31.30	14.80	6.40	4.90	514.50	117.55	119.50	132.25	89.20	44.06	931.40	335.20
22	31.30	14.00	6.40	4.90	355.30	117.55	117.55	127.90	86.74	41.80	652.26	311.80
23	35.50	14.00	6.40	4.90	220.75	117.55	117.55	123.70	86.74	35.50	505.24	308.00
24	31.30	14.00	6.40	4.90	220.75	117.55	127.90	119.50	86.74	22.90	199.20	296.92
25	29.20	13.20	5.90	4.90	196.75	115.60	127.90	141.25	86.74	19.76	167.80	282.04
26	29.20	25.00	5.90	4.90	193.75	115.60	119.50	134.50	84.28	17.68	79.36	271.06
27	29.20	19.76	5.90	4.90	576.66	113.65	117.55	130.00	84.28	16.64	143.80	225.76
28	44.08	17.68	5.90	4.90	276.70	113.65	117.55	127.90	84.28	15.60	118.42	263.98
29	44.08		16.64	4.90	252.70	113.65	117.55	127.90	84.26	14.00	691.96	304.36
30	44.08		14.00	4.70	233.20	113.65	111.70	121.60	79.36	12.40	642.62	327.40
31	31.30		11.60		226.50		111.70	119.50		11.60		296.92
Total	937.38	541.64	358.40	178.72	4594.62	4128.05	3642.4	4267.45	3348.00	881.18	5135.26	13,795.56
Mean	30.24	19.34	11.56	5.96	148.21	137.60	117.50	137.66	111.60	28.43	171.18	445.02

Table 12-9 Daily Discharge Records (Original) at Bato G.S.
(1967)
(m³/sec)

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
1	267.52	176.98	135.34	118.42	124.06	112.96	79.36	110.32	180.16	12.24	55.84	47.04
2	260.44	173.80	135.34	115.60	118.42	107.68	71.98	107.68	192.88	91.84	52.78	47.04
3	263.98	173.80	135.34	115.60	112.96	107.68	71.98	132.52	212.32	69.52	50.74	80.80
4	263.98	167.80	135.34	112.96	107.68	149.80	115.60	189.70	186.52	53.20	368.08	75.20
5	246.28	167.80	135.34	112.96	102.40	167.80	99.76	146.80	173.80	155.80	652.26	67.37
6	239.20	183.34	135.34	110.32	97.12	249.82	97.12	126.88	167.80	142.72	188.58	75.20
7	235.84	173.80	135.34	110.32	97.12	363.04	86.74	132.52	199.24	250.80	178.80	55.84
8	225.76	167.80	135.34	107.68	94.48	438.64	81.82	173.80	260.44	147.04	174.10	49.72
9	225.76	161.80	132.52	219.04	89.20	375.28	79.36	192.88	242.74	138.40	169.40	47.87
10	215.68	155.80	129.70	192.66	84.28	354.88	69.52	186.52	199.20	155.68	151.36	48.04
11	215.68	152.80	126.88	199.24	79.36	319.60	60.04	173.80	192.88	164.70	115.14	48.04
12	215.68	140.98	126.88	170.80	74.44	293.20	60.04	155.80	186.52	138.40	104.46	46.21
13	215.68	143.80	126.88	158.80	74.44	278.32	53.20	138.16	192.88	151.36	100.90	47.87
14	215.68	143.80	126.88	149.80	71.98	256.90	46.36	126.88	186.52	124.61	99.31	47.87
15	215.68	143.80	126.88	146.80	115.60	229.12	41.80	202.42	186.52	122.64	96.13	47.87
16	205.60	140.98	124.06	140.98	155.80	212.32	37.60	183.34	176.98	124.61	92.95	47.87
17	205.60	138.16	124.06	132.52	143.80	199.24	37.60	219.04	176.98	268.11	88.18	46.21
18	205.60	138.16	121.24	129.70	143.80	186.52	37.60	199.24	304.36	284.06	83.60	46.21
19	205.60	138.16	121.24	126.88	180.16	180.16	41.80	229.12	222.40	122.64	79.40	46.21
20	205.60	143.80	118.42	121.24	143.80	176.98	57.76	205.60	205.60	85.00	68.58	45.38
21	208.96	143.80	118.42	180.16	140.98	118.42	69.52	192.88	212.32	72.40	56.86	45.38
22	246.28	143.80	118.42	253.36	140.98	110.32	41.80	186.52	215.68	71.00	45.38	44.55
23	225.76	138.16	118.42	180.16	140.98	97.12	60.04	173.80	219.04	61.32	44.55	44.55
24	219.04	138.16	129.70	170.80	138.16	99.76	62.32	164.80	212.32	71.00	43.72	43.72
25	215.68	138.16	124.06	161.80	132.52	105.04	74.44	158.80	215.68	68.58	43.72	43.72
26	212.32	135.34	124.06	158.80	132.52	91.84	84.28	173.80	263.98	66.16	43.72	43.72
27	205.60	135.34	124.06	149.80	132.52	140.98	84.28	192.88	339.10	61.32	43.72	43.72
28	199.24	135.34	124.06	143.80	129.70	105.04	89.20	215.68	278.32	60.11	43.72	44.55
29	192.88	135.34	121.24	135.34	129.70	97.12	110.32	199.12	229.12	57.88	43.72	43.72
30	186.52	118.42	118.42	129.70	118.42	91.84	115.60	192.88	738.16	56.86	47.04	43.72
31	180.16	118.42	118.42	112.96	112.96	186.52	99.76	186.52	56.86	56.86	43.72	43.72
Total	6843.28	4235.26	3924.82	4456.04	3660.34	5817.42	2218.60	5370.82	6970.46	3507.26	3426.74	1546.93
Mean	220.75	151.26	126.61	148.53	118.07	193.91	71.57	173.25	232.35	113.14	114.22	49.97

Daily 12-70 Daily Discharge Records (Original) at Bato G.S.
(1968)
(m³/sec)

DAY	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1	43.72	33.54	28.20	25.60	25.00	24.25	30.25	64.45	220.75	439.90	56.95	68.50
2	43.72	32.16	28.20	25.60	32.95	19.15	26.50	72.55	199.75	330.10	54.55	53.30
3	42.89	32.16	28.20	25.60	22.15	23.50	20.95	136.75	171.40	348.10	50.95	50.95
4	42.89	31.70	28.20	25.60	28.75	23.50	20.95	115.60	168.70	333.70	48.70	49.75
5	42.89	31.24	28.20	25.60	23.50	22.15	20.95	105.85	202.75	322.90	86.05	48.70
6	42.89	31.24	26.70	25.60	20.35	28.00	23.50	125.80	252.70	290.50	87.70	45.55
7	42.89	30.32	26.70	25.60	17.35	28.00	25.00	103.90	233.20	262.90	73.90	41.35
8	42.89	29.60	26.70	25.60	14.25	20.95	21.55	101.95	217.75	242.80	73.90	39.25
9	42.89	29.40	36.56	25.60	12.90	28.75	19.15	115.60	202.75	217.75	71.20	28.00
10	42.89	29.40	36.56	25.60	11.55	25.75	20.95	111.70	193.75	208.75	68.50	28.00
11	42.89	29.10	33.08	25.60	14.75	20.95	20.95	105.85	211.75	199.75	65.80	28.00
12	42.89	29.10	30.32	25.60	13.35	17.95	17.35	98.20	211.75	199.75	60.55	27.25
13	42.89	28.80	28.20	25.60	19.15	21.55	23.50	94.60	211.75	188.05	58.15	26.50
14	42.89	28.80	25.40	25.60	16.25	28.75	20.95	100.00	304.90	179.50	55.75	25.75
15	42.89	28.80	27.60	25.60	28.00	20.95	19.75	115.60	273.25	188.58	38.35	30.25
16	42.89	28.50	27.30	25.20	22.75	17.95	36.55	146.05	159.45	171.40	48.70	18.55
17	42.06	28.50	27.00	25.60	19.15	18.55	26.50	111.70	266.35	150.85	31.15	18.55
18	42.06	28.50	27.00	25.60	16.75	33.85	28.00	101.95	287.05	208.75	31.15	18.55
19	42.06	28.20	26.70	25.60	23.50	20.95	21.55	150.85	301.30	139.00	38.35	18.55
20	42.06	28.50	26.40	62.53	29.50	28.55	18.55	252.70	283.60	132.25	38.35	18.55
21	42.06	28.20	26.20	22.15	21.55	16.75	36.55	171.40	259.45	115.60	42.40	18.55
22	42.06	28.50	26.00	16.25	23.50	17.35	25.75	179.50	249.40	115.60	39.25	18.55
23	41.23	28.20	25.80	14.75	20.35	20.95	42.40	148.40	290.50	109.75	43.45	18.55
24	41.23	28.50	25.80	21.55	17.35	29.50	32.05	132.25	269.80	101.95	40.30	34.75
25	41.23	28.20	25.80	17.95	27.25	29.50	205.75	150.85	262.90	78.25	41.35	34.75
26	40.40	28.20	25.80	14.75	19.75	19.75	188.05	136.75	256.00	73.90	41.35	34.75
27	47.87	28.20	25.80	15.75	16.25	16.25	150.85	132.25	233.20	68.50	40.30	34.75
28	47.87	27.90	25.60	15.25	13.35	29.50	119.50	355.30	223.75	65.80	48.70	33.85
29	37.84	27.90	25.60	15.25	11.10	34.75	100.00	408.94	585.92	63.10	48.70	34.75
30	32.62	27.90	25.40	31.15	24.25	34.75	86.05	416.68	439.90	64.45	48.70	34.75
31	36.56	25.40	25.40	25.00	25.00	73.90	73.90	385.73		59.35		36.56
Total	1307.11	851.62	856.42	733.33	631.60	713.05	1524.25	4949.69	7745.47	5671.53	1573.20	1018.40
Mean	42.16	30.42	27.63	24.44	20.37	23.77	49.17	159.67	258.18	182.95	52.44	32.85

Table 2-11 Daily Discharge Records (Original) at Bato G.S.
(1969)
(m³/sec)

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
1	214.75	8.95	4.55	3.30	8.55	16.75	16.25	10.20	11.10	79.75	22.90	25.00
2	96.40	8.95	4.80	3.30	8.55	25.75	13.80	8.15	4.05	81.25	19.76	31.30
3	208.75	8.15	3.80	3.05	7.75	15.75	13.35	8.15	20.95	76.75	18.72	39.70
4	211.75	8.15	3.30	2.80	9.35	29.50	15.25	7.75	19.75	73.90	17.68	41.80
5	205.75	9.75	3.30	2.80	12.90	32.95	15.75	7.40	11.10	79.75	16.64	37.60
6	205.75	9.75	3.30	3.30	12.90	30.25	13.80	8.95	11.10	111.70	17.68	31.30
7	205.75	8.95	3.55	3.05	10.20	29.50	12.90	11.55	21.55	91.00	15.60	25.00
8	208.75	8.95	3.80	2.80	10.20	28.00	12.00	10.65	21.55	168.70	13.20	19.76
9	211.75	8.55	3.80	17.35	11.10	25.75	11.10	10.65	19.75	134.40	12.40	16.64
10	34.75	8.15	4.05	18.55	12.00	14.75	11.10	10.65	19.75	124.61	10.88	14.00
11	39.25	7.40	3.30	11.55	16.75	13.35	11.10	9.75	20.35	111.58	10.16	12.40
12	44.50	7.05	3.80	13.35	10.65	13.35	11.10	7.40	20.95	109.80	9.44	13.20
13	47.65	6.70	3.30	10.65	11.10	12.45	10.20	5.10	20.95	97.72	8.00	11.60
14	47.65	6.35	3.30	7.05	22.75	12.90	9.75	4.30	21.55	91.36	6.80	10.16
15	41.35	6.35	3.05	8.95	22.15	12.45	9.75	3.80	23.50	111.58	6.00	8.72
16	42.40	6.00	3.05	7.40	15.75	12.45	13.35	3.80	22.75	108.02	5.80	8.00
17	44.50	5.70	2.80	7.40	15.75	12.45	12.45	8.55	20.95	116.92	6.00	10.88
18	45.55	5.70	3.30	7.05	31.15	12.45	12.45	7.75	22.15	120.67	5.90	12.40
19	46.60	6.00	3.05	6.70	26.50	12.45	13.35	7.40	22.15	109.80	6.80	14.00
20	46.60	5.40	3.05	6.70	26.50	12.45	17.35	10.20	22.75	106.24	7.20	16.64
21	30.25	5.40	3.05	6.70	31.15	12.90	19.15	7.05	23.50	140.56	7.60	19.72
22	17.35	5.70	3.05	6.35	25.75	12.90	24.25	3.80	22.15	89.20	9.44	17.68
23	16.25	5.40	3.30	6.35	17.95	12.00	27.25	3.30	19.75	81.82	10.88	19.76
24	12.90	5.40	3.05	6.70	15.75	12.00	28.75	3.30	15.75	64.60	10.88	19.76
25	12.45	4.80	3.30	7.40	14.25	12.00	29.50	3.30	15.25	48.64	10.88	22.90
26	11.10	4.80	3.30	7.05	11.10	7.75	30.25	3.30	12.45	46.36	10.88	27.10
27	10.20	4.80	3.55	7.05	12.45	6.70	29.50	4.55	11.10	55.48	9.44	27.10
28	10.65	5.10	3.80	6.35	12.00	12.90	34.75	4.05	7.75	48.64	12.40	29.20
29	8.95		3.80	5.70	10.20	11.55	8.55	3.30	5.40	41.80	14.80	35.50
30	9.75		3.80	8.55	9.35	11.55	13.35	3.30	3.80	33.40	17.68	35.50
31	8.95		3.80	9.35	9.35	12.45	12.45	4.30	3.80	27.10		35.50
Total	2,399.00	192.35	108.05	215.30	471.85	487.95	513.90	205.70	515.60	2,783.16	352.44	688.82
Mean	77.39	6.87	3.48	7.18	15.21	16.26	16.58	6.63	17.19	89.78	11.75	22.22

Table 12-1/2 Daily Discharge Records. (Original) at Bato G.S.
(1970)
(m³/sec)

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
1	39.70	19.76	5.10	3.70	3.70	124.06	78.00	138.40	96.13	24.40	44.72	39.70
2	44.08	17.68	5.00	3.70	3.60	129.70	75.20	134.40	94.54	25.00	47.04	58.90
3	48.64	16.64	5.00	3.70	3.50	126.88	73.80	130.52	92.95	26.20	47.87	56.86
4	55.48	14.80	5.00	3.60	3.40	67.06	71.00	122.64	89.77	27.00	47.87	48.70
5	57.76	12.40	4.90	3.60	3.30	84.28	68.58	115.14	91.36	28.50	47.04	46.21
6	60.04	12.40	4.90	3.60	3.20	138.16	67.37	106.24	88.18	28.80	45.38	44.55
7	55.48	10.88	4.80	3.50	2.70	140.98	68.58	100.90	86.59	34.64	42.89	42.89
8	50.92	10.88	4.80	3.50	2.50	155.80	66.16	108.02	78.00	37.20	42.06	41.23
9	48.64	10.16	4.80	3.50	2.30	149.80	122.64	106.24	75.20	39.12	41.23	39.12
10	53.20	5.44	4.60	3.40	2.10	135.34	120.67	104.46	80.80	40.40	39.12	37.84
11	50.92	8.72	4.70	3.40	1.90	135.34	116.92	109.80	613.70	41.23	36.56	35.28
12	46.36	8.00	4.70	3.40	1.70	118.42	115.14	120.67	439.90	43.72	34.64	34.64
13	41.80	8.72	4.70	3.20	2.20	146.80	113.36	136.43	171.75	45.38	36.56	37.84
14	41.80	7.60	4.60	3.20	1.50	180.16	111.58	147.04	144.88	47.87	40.40	41.23
15	39.70	7.60	4.60	3.20	1.60	196.20	109.80	157.84	174.10	54.82	43.72	43.72
16	37.60	6.80	4.60	3.00	1.70	181.15	106.24	222.55	181.15	56.86	47.04	38.48
17	39.70	6.80	4.60	3.00	1.70	164.70	104.46	151.36	142.72	47.04	54.82	37.20
18	37.60	6.00	4.50	3.00	1.90	153.52	100.90	138.40	97.72	44.55	58.90	39.12
19	35.50	5.90	4.50	2.90	1.90	142.72	96.13	116.92	96.13	31.70	57.88	37.20
20	31.30	5.90	4.50	2.80	2.10	130.52	94.54	83.60	34.64	28.80	55.84	35.92
21	29.20	5.80	4.30	2.70	2.20	120.67	86.59	88.18	22.68	28.50	48.70	35.92
22	33.40	5.70	4.30	2.70	2.30	115.14	69.79	91.36	22.68	27.60	45.38	36.56
23	35.50	5.50	4.30	2.60	2.20	106.24	33.54	92.95	22.62	28.20	43.72	34.64
24	35.50	5.40	4.20	2.90	2.10	99.31	32.62	100.90	22.71	29.10	42.06	34.64
25	33.40	5.40	4.10	3.20	1.90	92.95	33.08	104.46	22.74	31.70	42.06	34.00
26	29.20	5.30	4.10	3.60	1.90	88.18	32.62	108.02	22.71	38.48	42.89	33.54
27	29.10	5.10	4.10	3.70	1.90	83.60	34.64	106.24	22.62	49.72	42.89	31.70
28	22.90	5.00	4.10	3.90	2.10	80.80	39.76	104.46	22.53	44.55	41.23	31.24
29	22.90	4.00	4.00	3.90	2.10	79.40	100.90	102.68	22.35	39.76	42.89	31.24
30	20.80	4.00	4.00	3.90	2.30	79.40	116.92	102.68	25.00	44.55	41.23	31.24
31	22.90	3.90	3.90	3.90	2.10	99.31	140.56	99.31	49.72	49.72	41.23	31.24
Total	1,231.02	246.28	140.30	100.00	71.60	3,747.28	2,602.09	3,652.81	3,198.85	1,165.11	1,349.63	1,202.59
Mean	37.710	8.80	4.53	3.33	2.31	124.91	83.94	117.83	106.63	37.58	44.99	38.79

Table 13-1 Revised Daily Discharge at Bato G.S.
(1960)

(m³/sec)

DAY	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1	85.4	58.8	139.9	46.2	40.9	46.2	133.0	57.6	133.0	91.5	71.4	38.0
2	85.4	57.5	112.0	49.6	40.0	46.2	154.8	55.3	133.0	91.5	64.5	34.6
3	85.4	57.5	110.7	49.6	40.0	47.4	142.0	62.2	143.8	95.3	58.8	33.0
4	85.4	57.5	103.7	51.8	40.0	53.0	126.3	59.9	155.5	91.5	58.8	31.3
5	85.4	57.5	101.8	91.5	40.0	49.6	110.0	57.6	186.0	93.5	57.5	31.3
6	88.4	57.5	85.4	62.4	38.0	49.6	102.3	60.0	198.3	85.0	55.1	33.0
7	82.4	57.5	71.3	76.0	37.2	51.2	102.3	95.3	186.0	73.7	55.1	36.3
8	79.3	57.5	71.3	59.9	37.2	51.2	106.0	195.3	186.0	119.8	55.1	39.7
9	76.5	57.5	69.9	50.6	38.0	49.4	88.0	194.5	189.0	110.0	55.1	38.8
10	75.1	57.5	71.3	43.0	41.9	47.6	82.0	202.3	183.0	102.3	55.1	38.0
11	74.0	57.5	71.3	41.9	48.4	45.8	79.0	198.3	170.8	104.3	55.1	36.3
12	71.3	57.5	66.1	41.9	50.6	44.0	73.7	215.0	173.8	114.0	57.5	34.6
13	71.3	60.0	60.0	41.9	48.4	44.0	73.7	238.8	173.8	218.5	55.1	33.0
14	71.3	60.0	54.0	41.9	48.4	40.4	79.0	244.5	160.3	701.0	55.1	33.0
15	71.3	58.8	50.6	41.9	41.9	38.6	82.0	295.0	157.5	574.0	73.7	31.3
16	71.3	100.5	46.2	41.9	39.0	40.9	88.0	282.6	155.5	260.6	64.5	31.3
17	71.3	98.8	46.2	41.9	44.0	48.4	71.4	283.3	147.7	147.0	59.9	29.6
18	71.3	85.0	43.0	43.0	46.2	50.6	66.8	243.0	144.3	137.5	57.6	29.6
19	71.3	79.0	40.9	46.2	55.1	52.8	59.9	228.8	165.5	114.0	57.6	29.6
20	71.3	69.1	36.2	46.2	62.4	54.0	64.7	223.8	117.8	95.3	55.3	27.9
21	71.3	69.9	32.3	50.6	50.6	56.3	73.7	322.8	104.3	89.8	54.0	27.9
22	71.3	130.0	32.3	48.4	57.6	51.8	64.7	512.3	110.0	88.0	54.0	27.1
23	67.4	114.8	32.3	55.1	64.5	54.0	64.5	574.0	114.0	97.0	54.0	27.1
24	64.7	135.9	32.3	54.0	41.9	54.0	60.0	414.9	98.8	95.3	54.0	26.2
25	64.7	156.4	32.3	52.8	40.0	60.0	59.9	365.3	88.0	91.0	54.0	26.2
26	64.7	214.0	36.2	49.6	45.8	91.0	60.0	315.4	86.3	79.0	54.0	27.9
27	58.8	244.5	36.2	44.0	41.9	124.0	58.8	247.3	91.5	73.7	46.4	33.0
28	58.8	243.0	41.9	41.9	41.9	186.0	63.5	163.3	95.3	64.5	43.0	53.0
29	58.8	198.4	43.0	41.9	64.5	157.5	67.4	143.8	95.3	60.0	39.7	44.5
30	58.8	46.2	46.2	41.9	44.0	147.7	66.1	136.0	98.8	79.0	39.7	38.6
31	58.8	46.2	46.2	46.2	46.2	57.5	57.5	130.8	73.7	73.7	39.7	33.7

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Total	2242.5	2809.4	1863.0	1489.5	1416.5	1933.2	2581.0	6819.0	4242.9	4311.3	1670.7	1035.4
Mean	72.34	96.88	60.10	46.95	45.69	64.44	83.26	219.97	141.43	139.07	55.69	33.40

Annual Mean 88.49

Table 13-2 Revised Daily Discharge at Bato C.S.
(1961) (m³/sec)

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
1	31.1	20.2	15.0	19.0	24.1	25.9	84.5	48.5	103.3	59.2	53.0	35.0
2	29.8	20.2	15.0	19.0	24.1	24.1	78.8	48.5	105.8	59.2	53.0	35.0
3	28.5	20.2	15.0	19.0	24.1	24.1	74.8	48.5	89.3	79.3	51.2	32.4
4	25.9	20.2	15.5	18.5	24.1	30.8	74.8	48.5	84.5	98.5	40.5	32.4
5	23.3	20.2	33.5	18.0	26.7	28.6	82.5	48.5	85.0	98.5	35.0	31.1
6	23.3	20.2	21.1	17.5	24.1	25.9	86.8	47.6	129.5	117.6	35.0	29.8
7	23.3	20.2	21.1	17.0	24.1	25.9	65.0	47.6	89.3	115.3	36.3	28.6
8	23.3	18.5	36.8	16.2	24.1	24.9	65.0	58.5	69.0	177.5	36.3	28.6
9	22.2	18.5	23.2	15.3	24.1	24.1	64.5	49.4	51.8	167.5	40.5	28.6
10	22.2	18.5	35.0	15.3	24.1	24.1	76.8	49.4	48.5	171.0	47.3	29.8
11	21.4	18.4	40.5	15.3	27.8	24.1	76.8	44.0	48.5	167.2	55.0	27.8
12	21.4	18.4	41.8	15.3	27.8	24.1	79.0	40.4	48.5	155.5	56.8	24.6
13	21.4	18.4	33.7	15.3	24.1	27.8	82.5	61.8	63.3	159.4	55.3	24.6
14	21.4	16.6	25.9	15.3	24.9	24.9	103.3	65.0	79.0	155.5	53.0	24.6
15	21.1	16.6	24.1	15.3	21.1	27.8	80.5	67.0	71.4	146.5	51.2	24.6
16	22.0	15.7	24.1	24.6	36.8	25.9	65.0	76.8	73.7	143.5	49.4	24.6
17	23.3	15.5	24.1	17.0	33.7	24.1	98.5	82.5	74.8	158.5	47.6	27.2
18	23.3	15.5	24.1	17.0	42.2	24.9	105.8	86.8	76.8	225.2	45.8	27.2
19	23.3	15.5	34.1	26.2	36.8	27.8	84.5	94.0	80.5	236.7	44.0	24.6
20	23.3	15.5	47.6	28.8	35.0	30.8	69.0	108.0	89.3	258.1	42.2	24.6
21	23.3	15.5	37.5	25.4	33.7	28.6	65.0	113.3	84.5	214.0	42.2	24.6
22	23.3	15.5	28.6	21.2	33.7	28.6	65.0	110.8	161.3	171.0	49.4	27.2
23	21.1	15.5	28.6	28.6	28.6	27.8	65.0	113.3	171.0	149.5	76.8	33.7
24	21.1	15.5	26.7	26.2	31.1	27.8	103.3	110.8	152.5	108.0	82.5	29.8
25	21.1	15.5	26.7	22.0	33.0	30.8	82.5	110.8	110.8	89.3	89.3	28.5
26	21.1	15.5	26.7	23.7	38.5	77.6	61.8	89.3	94.0	82.5	69.0	27.2
27	21.1	15.0	24.9	23.7	37.5	171.0	48.5	84.5	90.0	72.8	51.8	27.2
28	18.4	15.0	24.1	23.7	30.8	127.0	48.5	84.5	72.0	65.0	48.5	27.2
29	18.4	15.0	24.1	23.7	28.6	121.5	51.8	84.5	62.2	65.0	44.0	29.8
30	18.4	20.4	20.4	23.7	26.7	108.0	48.5	94.0	56.0	61.8	39.7	28.5
31	20.2	19.5	19.5	23.7	25.9	48.5	48.5	86.8	56.0	56.9	39.7	24.6
Total	702.3	486.0	839.0	606.8	901.9	1269.3	2286.8	2303.9	2616.1	4085.5	1521.6	874.0
Mean	22.65	17.36	27.06	20.23	29.09	42.31	73.77	74.32	87.20	131.79	50.72	28.19
Annual Mean												

Table 13-3 Revised Daily Discharge at Bato G.S.
(1962) (m³/sec)

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
1	25.9	20.2	24.9	50.1	59.2	44.5	45.8	81.8	135.3	83.0	26.7	72.0
2	24.6	19.3	28.6	39.7	60.0	37.8	51.8	76.9	138.2	67.1	26.7	63.9
3	24.6	18.5	23.3	39.7	41.0	46.4	48.5	64.9	135.3	59.2	24.1	57.8
4	22.0	18.5	19.5	44.9	33.4	37.6	50.3	68.2	122.5	50.1	24.1	55.5
5	27.2	18.5	19.5	38.5	33.4	33.4	51.8	66.6	120.0	46.2	24.1	52.8
6	28.5	18.5	19.5	30.8	31.3	37.6	51.8	66.6	117.5	74.0	63.3	56.0
7	32.4	18.5	19.0	23.2	31.3	37.6	48.5	73.3	115.0	102.3	267.8	56.0
8	27.2	18.5	19.0	19.5	31.3	33.4	48.5	74.4	112.5	86.6	807.4	56.0
9	27.2	18.5	19.0	19.5	29.2	29.2	51.8	72.0	110.0	67.1	472.4	52.8
10	25.9	18.5	19.0	19.5	33.5	35.5	51.8	72.0	107.5	63.9	394.3	52.8
11	24.6	18.5	19.0	19.0	33.5	37.6	55.0	72.0	103.3	63.9	189.7	52.8
12	24.6	18.5	19.0	19.0	33.5	25.0	55.0	81.8	84.5	60.7	102.3	48.9
13	22.0	18.5	19.0	19.0	33.5	24.9	55.0	115.6	82.5	60.7	83.0	46.2
14	22.0	18.5	19.0	41.0	18.5	59.2	55.0	118.4	78.8	63.9	65.4	46.2
15	21.1	18.5	19.0	35.3	18.5	51.4	58.5	124.1	70.8	62.2	56.0	46.2
16	19.5	18.5	19.0	38.5	18.5	44.9	58.5	113.0	76.8	60.7	52.8	46.2
17	19.5	18.5	19.0	43.5	18.5	38.5	58.5	113.0	76.8	63.9	52.8	46.2
18	19.5	18.5	19.0	43.5	19.5	58.5	61.8	107.7	78.8	62.2	52.8	46.2
19	19.5	18.5	19.0	47.6	19.5	53.5	72.8	110.3	84.5	67.1	54.3	46.2
20	20.2	18.5	19.0	51.4	19.5	44.5	385.9	115.6	129.5	65.4	47.6	44.9
21	20.2	18.5	19.0	42.4	19.5	43.0	626.3	118.4	105.8	62.2	38.5	42.4
22	21.1	18.5	19.0	30.8	40.5	60.0	833.3	118.4	98.5	50.1	37.5	39.7
23	19.5	18.5	82.5	26.7	47.3	63.3	769.6	118.4	96.3	44.1	41.0	39.7
24	19.5	18.5	105.8	26.7	40.5	55.0	217.1	118.4	103.3	33.0	44.9	39.7
25	21.1	18.5	80.5	24.1	39.0	51.8	164.8	132.5	224.0	33.4	76.8	37.5
26	21.1	18.5	37.5	23.2	40.5	48.5	149.5	135.3	324.8	48.5	82.5	35.3
27	20.2	21.4	26.7	126.5	39.0	33.4	124.0	135.3	341.0	48.5	50.1	35.3
28	19.3	19.5	19.5	98.5	36.3	29.2	103.3	135.3	204.3	44.1	51.4	35.3
29	21.1	19.5	19.5	65.4	35.0	26.7	98.5	141.0	184.3	39.7	94.0	34.1
30	21.1	67.1	67.1	51.4	251.7	33.4	103.3	135.0	164.3	41.8	89.3	34.1
31	23.2	62.2	62.2	82.5	82.5	103.3	103.3	99.8	45.8	45.8	34.1	34.1
Total	705.4	524.4	940.6	1198.9	1288.4	1255.3	4709.6	3176.0	3926.7	1821.4	3493.6	1452.8
Mean	22.75	18.73	30.34	39.96	41.56	41.84	151.92	102.45	130.89	58.75	46.86	802.5

Annual Mean

Table 3-4 Revised Daily Discharge at Bato G.S.
(1963) (m³/sec)

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
1	34.1	39.7	51.8	30.3	30.3	33.5	175.8	69.8	122.6	175.8	83.0	40.4
2	34.1	39.7	51.8	28.1	30.3	43.5	153.2	76.6	169.4	191.1	83.6	43.7
3	34.1	39.7	51.8	26.2	30.3	39.7	139.0	93.5	142.3	142.7	78.0	37.8
4	33.0	39.7	48.2	26.2	30.3	33.5	125.4	63.3	155.8	130.4	76.5	36.6
5	33.0	42.4	48.2	26.2	30.3	32.1	86.6	77.8	151.4	122.6	71.0	36.0
6	32.0	42.4	48.2	26.2	30.3	66.4	89.8	77.8	250.8	105.2	68.6	36.0
7	30.8	44.9	44.7	26.2	30.3	126.9	64.4	89.8	243.0	105.2	66.2	36.0
8	30.8	41.0	44.7	26.2	30.3	136.1	64.4	82.2	199.3	105.2	63.7	36.0
9	33.0	39.7	44.7	26.2	30.3	147.5	72.4	76.6	186.0	105.2	62.5	36.0
10	35.3	39.7	44.7	25.2	30.3	139.0	80.5	66.4	188.8	105.2	58.9	36.0
11	35.3	39.7	42.2	25.2	30.3	93.9	107.8	68.6	162.5	105.2	68.6	58.8
12	34.1	39.7	39.7	25.2	72.4	93.5	107.8	68.4	162.5	105.2	66.2	169.0
13	34.1	39.7	38.5	24.4	58.8	75.3	97.7	66.4	162.5	82.5	53.6	627.3
14	35.3	42.2	37.2	24.4	42.2	91.0	100.7	820.9	160.0	82.5	53.6	390.8
15	37.5	39.7	32.1	22.9	31.3	77.8	142.3	740.2	149.2	68.6	53.6	144.7
16	37.5	39.7	32.1	32.1	30.3	72.5	130.5	267.5	142.7	68.6	53.6	74.5
17	37.5	39.7	32.1	30.3	30.3	62.3	113.8	125.8	136.4	66.2	53.6	84.9
18	37.5	41.0	32.1	30.3	30.3	46.4	108.0	155.8	144.7	66.2	48.7	100.7
19	36.3	76.5	32.1	30.3	30.3	48.6	94.5	149.0	130.5	63.7	47.0	103.0
20	36.3	80.5	32.1	30.3	30.3	44.1	88.2	128.8	118.7	63.7	46.2	105.2
21	36.3	84.9	32.1	30.3	30.3	41.8	97.7	145.8	122.6	62.5	44.6	105.2
22	35.3	80.5	31.3	30.3	30.3	67.0	83.6	142.3	130.5	63.7	42.1	135.5
23	37.5	74.5	31.3	30.3	30.3	64.6	79.4	142.3	126.6	65.0	49.7	58.8
24	37.5	64.4	31.3	30.3	30.3	64.6	69.8	142.3	115.1	63.7	52.8	58.8
25	37.5	62.4	31.3	30.3	30.3	68.8	72.5	132.5	112.8	61.3	47.9	57.2
26	36.3	55.3	34.6	30.3	32.1	67.0	72.5	124.6	151.4	61.3	47.9	51.8
27	36.3	53.6	37.2	30.3	32.1	68.8	72.5	116.9	211.6	62.5	47.0	50.1
28	35.3	53.6	34.6	30.3	32.1	117.8	77.8	159.3	243.0	61.3	46.2	55.3
29	35.3		34.6	30.3	33.5	686.5	83.0	140.6	320.2	61.3	53.8	43.5
30	35.3		32.1	30.3	34.6	638.1	88.3	116.9	259.8	72.5	85.0	33.5
31	38.5		32.1		34.6		76.6	111.6		72.5		33.5
Total	1092.7	1416.5	1191.5	845.4	1040.0	3388.6	3016.5	4840.3	5072.7	2768.6	1773.7	2916.6
Mean	35.25	50.59	38.44	26.18	33.55	112.95	97.31	156.14	169.09	89.31	59.12	94.08
Annual Mean												80.33

Table 7-5 Revised Daily Discharge at Bato G.S.
(1964) (m³/sec)

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
1	33.5	26.0	34.6	30.3	29.1	44.7	372.5	62.4	72.4	129.7	136.1	226.2
2	33.5	26.0	33.5	30.3	29.1	43.5	144.7	66.4	64.4	124.1	135.3	275.2
3	32.2	26.0	42.2	29.1	37.2	42.2	107.7	70.4	62.4	105.0	139.0	179.1
4	33.5	25.2	42.2	29.1	33.5	39.7	84.9	68.4	76.5	94.5	144.7	141.0
5	34.0	26.0	36.0	28.1	31.3	39.5	78.5	70.4	82.5	498.3	153.2	135.3
6	41.0	25.6	32.1	28.1	31.3	39.7	74.5	68.4	91.6	267.5	159.0	132.5
7	34.0	25.6	30.3	28.1	31.3	43.5	74.5	549.6	74.5	199.3	150.4	126.9
8	33.5	25.6	30.3	28.1	31.3	41.0	74.5	449.9	60.0	169.0	141.0	121.2
9	32.2	25.6	29.1	28.1	32.1	42.2	82.5	256.9	192.6	156.1	130.4	117.8
10	36.0	25.2	28.1	27.1	30.3	55.3	72.4	175.8	170.0	253.0	147.5	125.4
11	48.2	25.0	28.1	27.1	29.1	60.7	64.4	169.0	91.6	249.8	159.0	130.4
12	51.8	25.6	33.5	27.1	29.1	48.2	103.0	162.3	80.5	150.4	147.5	122.8
13	38.5	37.2	37.2	27.1	29.1	44.7	84.9	133.3	153.2	127.9	200.0	118.4
14	34.0	39.7	38.5	27.1	51.8	42.2	70.4	112.8	130.4	110.2	234.0	121.2
15	33.5	30.3	33.5	27.1	41.0	41.0	82.5	107.7	177.0	98.5	257.5	212.8
16	32.2	27.1	32.1	26.2	53.6	42.2	105.2	100.7	199.2	91.6	292.5	267.5
17	30.8	26.2	31.3	26.2	43.5	44.7	96.1	91.6	141.0	82.5	246.3	242.5
18	31.2	25.8	31.3	32.1	37.2	42.2	93.9	93.9	159.0	80.5	229.1	221.3
19	28.8	25.2	30.3	28.1	50.1	51.8	76.5	96.1	122.8	141.8	186.5	149.2
20	28.8	24.6	31.3	29.1	104.5	53.6	70.4	115.3	130.4	100.7	267.5	117.8
21	29.1	24.4	30.3	29.1	68.4	82.5	66.4	136.1	117.8	82.5	257.5	105.2
22	28.2	25.0	31.3	29.1	57.2	96.1	60.7	112.8	141.8	96.1	247.5	109.8
23	28.5	24.4	33.5	28.1	87.1	78.5	66.4	98.5	129.7	105.2	242.5	115.1
24	27.6	24.4	31.3	27.1	76.5	66.4	84.9	96.1	113.0	110.2	221.3	130.5
25	27.3	24.3	31.3	41.0	60.7	62.4	80.5	84.9	110.3	115.3	200.0	126.6
26	27.3	24.4	32.1	29.1	58.8	64.4	93.9	78.5	102.4	117.8	221.3	122.6
27	27.3	30.3	32.1	28.1	51.8	70.4	93.9	70.4	99.8	125.4	215.7	115.1
28	27.3	30.3	32.1	28.1	51.8	68.4	98.5	87.1	107.7	130.4	199.2	115.1
29	27.3	33.5	34.6	28.1	48.2	72.4	98.5	89.4	120.3	139.0	206.0	108.0
30	26.7		33.5	28.1	43.5	100.7	84.9	100.7	165.7	144.7	219.4	99.3
31	26.4		32.1		42.2	87.1	70.4	87.1		141.8		96.1
Total	1004.2	784.5	1019.7	859.5	1442.5	2050.7	2913.0	4062.9	3540.5	4538.8	5886.9	4527.9
Mean	32.39	29.05	32.89	28.69	46.53	68.36	93.97	131.06	118.02	146.47	196.23	146.06

Annual Mean

Table 13-6 Revised Daily Discharge at Bato G.S.
(1965) (m³/sec)

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
1	105.2	153.5	53.8	24.9	35.9	49.1	61.5	39.3	80.5	72.4	46.6	54.8
2	105.2	155.7	32.1	25.2	27.4	41.0	79.4	31.3	99.2	75.8	45.1	53.8
3	111.6	149.2	32.1	25.2	27.1	41.0	59.5	31.8	117.8	79.2	43.5	56.9
4	117.8	138.4	32.1	34.6	27.1	41.0	58.3	32.1	113.6	82.5	42.2	54.8
5	113.6	115.1	32.1	28.8	27.1	53.8	57.2	32.8	109.4	87.1	41.2	53.8
6	109.4	94.8	31.3	28.5	27.6	37.7	62.7	33.5	105.2	91.6	54.1	54.8
7	105.2	93.0	31.3	27.3	28.1	36.0	68.4	33.0	82.5	128.6	89.8	57.9
8	111.6	88.2	32.1	26.7	47.3	33.6	63.7	32.6	110.2	135.5	80.5	53.8
9	117.8	86.6	36.0	27.1	27.9	31.3	58.8	32.1	115.3	106.2	87.2	52.5
10	124.2	82.2	37.2	27.4	27.1	30.3	56.1	32.8	209.4	99.2	93.9	51.0
11	130.4	72.4	41.0	27.8	28.1	29.1	85.8	33.5	232.9	105.2	73.8	49.3
12	122.0	60.1	34.6	28.1	29.1	42.9	106.2	34.0	130.4	110.2	53.8	49.3
13	113.6	55.8	33.5	27.6	30.1	56.6	95.8	34.6	118.7	115.3	83.0	55.8
14	105.2	54.8	32.1	27.1	31.1	70.4	179.8	35.0	93.9	100.0	54.8	53.8
15	140.5	51.8	31.3	27.1	49.7	74.5	157.8	35.5	84.9	84.9	71.0	49.3
16	175.8	48.7	31.3	27.1	40.2	78.5	159.0	35.8	91.6	78.0	76.5	47.8
17	160.3	49.7	30.3	26.7	48.2	66.1	133.4	63.3	172.4	71.3	56.9	52.5
18	144.7	49.7	29.1	26.6	44.0	53.6	108.1	47.0	185.8	66.2	57.9	71.0
19	131.6	49.7	29.1	26.2	39.7	48.1	82.5	37.7	174.1	65.0	55.8	59.5
20	118.3	49.7	29.1	39.1	38.5	42.7	78.5	37.2	128.6	66.2	53.8	51.0
21	105.2	48.7	28.1	37.2	37.2	37.2	74.5	38.8	138.4	63.7	53.8	47.8
22	99.5	43.7	29.1	34.6	36.0	63.2	72.4	40.5	120.7	62.5	53.8	46.3
23	93.9	40.4	30.3	32.1	34.6	89.4	70.4	42.2	103.0	62.5	53.8	43.5
24	94.5	39.8	29.1	31.4	33.5	80.8	69.1	47.1	100.7	60.1	52.8	42.3
25	94.5	40.4	28.1	35.9	31.8	72.4	67.7	51.8	96.1	58.9	52.8	42.3
26	93.0	57.5	29.1	30.3	30.3	66.2	66.4	56.1	97.7	56.9	51.8	41.0
27	93.0	57.0	42.2	29.8	29.3	59.8	64.4	60.7	87.1	54.8	58.9	41.0
28	102.7	56.3	50.7	29.1	28.1	53.6	62.4	64.5	82.9	51.8	57.9	51.0
29	88.2		35.9	28.6	37.8	58.0	58.8	68.6	78.5	48.7	56.9	85.8
30	82.2		27.9	28.1	47.4	62.4	55.3	72.4	75.5	47.9	55.8	52.5
31	108.6		25.2	57.2	57.2	47.2	47.2	119.8	48.7	48.7	43.5	43.5
Total	3519.3	2082.9	1027.2	876.2	1084.5	1600.3	2521.1	1387.4	3537.0	2436.9	1809.7	1620.4
Mean	113.53	74.39	33.14	29.21	34.98	53.34	81.33	44.75	117.9	78.61	60.32	52.27

Annual Mean

Table 13-7 Revised Daily Discharge at Bato G.S.
(1966) (m³/sec)

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
1	50.4	38.0	30.9	41.9	6.1	100.3	111.7	85.5	64.3	31.8	63.4	300.3
2	48.9	36.8	30.9	32.1	6.1	93.8	109.0	82.0	64.3	31.8	63.4	300.3
3	48.9	35.5	30.9	30.9	5.6	87.8	99.3	78.8	61.3	31.8	58.2	292.3
4	46.1	35.5	30.9	29.9	5.4	87.0	90.3	76.5	58.3	32.8	53.5	284.5
5	44.6	35.5	35.5	22.4	6.1	86.3	79.8	74.5	55.5	33.8	64.5	276.5
6	44.6	34.3	30.9	18.7	23.2	85.5	70.3	78.0	64.3	35.3	76.8	208.0
7	43.2	34.3	30.9	14.8	30.9	89.0	67.3	81.8	74.5	37.0	90.2	150.0
8	50.4	35.5	32.1	12.6	28.9	92.5	64.3	85.5	68.3	20.4	116.6	132.5
9	47.4	36.8	32.1	12.6	105.9	89.0	62.5	83.3	62.5	19.9	146.5	116.3
10	41.9	35.5	30.9	12.1	58.2	85.5	60.8	81.0	60.8	19.4	139.8	105.5
11	40.5	36.8	29.9	11.8	84.0	81.8	58.8	87.8	58.8	27.1	133.1	95.0
12	39.2	33.3	29.9	11.8	65.0	78.0	53.8	95.0	57.0	18.7	107.4	85.5
13	39.2	33.3	28.9	11.8	48.9	74.5	49.0	94.3	58.8	18.3	84.7	78.8
14	38.0	32.1	27.9	16.2	43.7	64.3	54.5	93.5	60.8	18.0	65.0	72.3
15	38.0	32.1	27.9	15.2	38.8	55.5	60.8	92.5	58.0	18.7	60.7	69.3
16	38.0	30.9	26.9	15.2	34.3	59.8	63.8	89.0	55.5	19.4	56.6	66.3
17	36.8	30.9	25.9	14.8	125.4	64.3	67.0	85.5	49.5	20.0	63.4	65.0
18	36.8	30.9	25.1	14.3	283.1	63.0	70.3	78.8	44.3	25.1	70.4	63.8
19	35.5	30.9	25.1	15.2	461.9	62.0	58.8	72.3	39.3	30.9	80.0	62.5
20	35.5	30.9	25.9	46.1	919.9	60.8	49.0	69.5	38.3	32.1	91.8	57.0
21	46.1	30.9	25.9	34.3	514.5	49.8	65.3	67.0	37.0	44.1	156.5	52.0
22	44.6	30.9	25.9	29.9	352.3	40.5	85.5	64.3	35.8	41.8	474.4	49.8
23	46.1	30.9	25.1	21.7	204.0	38.8	74.5	59.8	34.8	35.5	649.0	47.5
24	39.2	30.9	25.1	15.2	210.0	37.0	64.3	55.5	36.5	32.1	449.6	44.3
25	36.8	33.3	24.2	11.0	196.8	37.0	55.5	58.8	38.5	24.6	287.0	41.0
26	36.8	39.2	24.2	10.4	199.4	37.0	58.8	62.5	40.5	18.7	281.8	38.3
27	39.2	33.3	23.2	10.1	404.5	37.0	62.5	64.3	37.0	18.3	276.7	40.0
28	53.5	30.9	23.2	10.1	252.5	35.3	77.5	66.3	33.8	36.8	271.5	42.0
29	46.1	30.9	28.9	7.1	138.3	33.8	95.0	68.3	34.3	36.3	390.8	92.5
30	44.1	39.2	39.2	6.8	62.5	66.3	92.5	70.3	34.8	36.0	371.5	174.0
31	39.2	33.3	33.3	33.3	81.0	87.8	87.8	72.3	35.5	35.5	113.5	113.5
Total	1315.6	940.1	887.6	557.0	4997.2	1973.2	2220.3	2374.5	1517.4	882.0	5294.9	3616.6
Mean	42.44	33.58	28.63	18.57	161.2	65.77	71.62	76.60	50.58	28.45	176.50	116.66

Annual Mean

Table 7-8 Revised Daily Discharge at Bato C.S.
(1967) (m³/sec)

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
1	150.0	47.5	28.5	28.0	74.5	108.0	211.0	228.0	95.0	141.2	30.0	47.0
2	95.0	46.8	28.3	28.0	73.3	107.7	211.0	231.5	125.0	146.5	80.0	55.0
3	86.8	46.0	28.0	28.0	72.3	107.3	211.0	238.6	110.8	17.5	287.0	80.8
4	78.8	45.5	27.3	27.5	71.3	106.3	207.7	242.1	125.0	18.8	1073.2	72.3
5	81.0	45.0	26.5	27.3	70.3	105.5	204.3	245.6	95.0	19.8	652.3	67.4
6	83.3	44.5	26.8	27.0	69.5	196.3	199.4	125.0	92.5	21.0	352.8	62.5
7	78.8	44.0	27.0	26.5	69.0	320.0	194.6	131.0	125.0	22.3	298.7	55.8
8	74.5	43.3	27.3	39.8	68.3	290.8	192.4	181.8	260.4	24.0	174.1	49.7
9	70.3	42.5	26.5	62.0	71.3	263.0	107.4	55.5	242.7	25.3	169.4	47.9
10	71.3	42.0	26.0	92.5	74.5	261.5	105.9	83.3	199.2	26.5	151.4	47.0
11	72.3	41.0	25.8	91.5	73.3	260.0	101.2	74.5	192.9	24.8	115.1	47.0
12	69.3	40.3	25.5	90.3	72.3	258.5	96.8	70.3	186.5	27.3	104.5	46.2
13	66.3	39.3	25.3	89.0	72.3	254.0	94.6	64.3	97.5	464.4	100.9	47.9
14	65.0	38.8	25.0	87.8	72.0	249.5	92.4	83.3	85.5	28.0	99.3	47.9
15	63.8	38.3	24.8	87.0	72.3	229.1	90.2	125.0	72.3	327.3	96.1	47.5
16	62.5	37.5	24.0	86.3	68.3	212.3	88.2	83.3	122.0	306.8	93.0	47.5
17	60.8	37.0	23.5	85.5	64.3	199.2	86.0	81.0	90.3	569.2	88.2	43.3
18	58.8	36.5	23.3	84.3	91.5	186.5	88.2	85.5	85.5	430.3	83.6	42.0
19	56.3	36.3	23.0	83.3	125.0	180.2	90.2	122.0	81.0	335.7	79.4	40.5
20	53.8	35.8	22.8	82.0	122.0	177.0	86.0	119.3	76.5	231.5	68.6	40.5
21	52.8	34.8	22.5	81.0	119.3	146.5	82.0	81.0	40.5	101.2	56.9	38.3
22	51.5	33.8	22.3	80.3	118.3	142.5	77.3	74.5	215.7	71.0	45.4	37.0
23	50.5	33.3	22.0	79.5	117.3	180.5	72.9	72.3	219.0	61.3	44.6	34.8
24	45.3	32.8	21.5	78.8	116.3	140.1	68.6	74.5	156.5	62.5	43.7	33.8
25	40.5	32.5	21.5	76.5	119.3	142.0	35.8	90.3	140.3	47.5	43.7	33.8
26	42.0	32.0	21.3	74.5	122.0	143.8	84.3	40.5	192.5	37.0	43.7	31.8
27	43.3	31.8	21.0	75.5	120.3	142.5	84.3	125.0	156.5	33.8	43.7	30.8
28	43.3	30.0	20.5	76.5	118.3	141.2	89.2	116.3	241.0	30.0	43.3	29.3
29	43.3		19.8	76.5	116.3	138.5	102.8	125.0	464.4	29.3	40.5	28.5
30	43.3		19.5	74.5	113.5	135.8	97.5	125.0	192.5	28.0	38.3	28.0
31	46.0		19.3	110.8	110.8	130.4	130.4	110.8		24.8		27.3
Total	2000.5	1086.9	746.4	2027.2	2839.3	5484.1	3683.6	3706.1	4579.5	3734.6	4641.4	1389.1
Mean	64.53	38.89	24.08	67.57	91.59	182.80	118.83	119.55	152.65	120.67	154.71	44.81

Annual Mean

Table 13-7 Revised Daily Discharge at Bato G.S.
(1968) (m³/sec)

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
1	26.0	24.0	28.2	25.6	25.9	46.1	101.2	64.5	220.8	92.5	47.5	29.3
2	25.3	24.8	28.2	25.6	33.0	43.2	146.5	40.5	199.8	92.5	43.3	27.3
3	27.3	25.3	28.2	25.6	32.1	44.6	138.5	43.3	171.4	91.5	40.5	26.5
4	24.8	26.0	28.2	25.6	44.6	41.9	169.7	49.0	168.7	90.3	37.0	26.5
5	24.0	26.5	28.2	25.6	38.0	39.2	160.8	46.0	202.8	131.0	38.3	26.5
6	23.5	27.3	26.7	25.6	28.9	46.1	152.2	52.0	206.5	116.3	38.3	26.5
7	163.7	28.0	41.9	25.6	21.7	53.5	146.5	55.5	204.0	116.3	38.3	27.3
8	169.7	29.3	36.8	25.6	15.2	50.4	135.8	64.3	198.3	97.5	35.8	28.0
9	169.7	29.3	36.6	25.6	14.8	46.1	130.4	72.3	192.5	85.5	37.0	14.8
10	169.7	29.4	36.6	25.6	15.7	43.2	133.1	97.5	183.0	81.0	38.3	27.3
11	163.7	29.1	33.1	25.6	14.8	48.9	125.4	105.9	174.0	78.8	35.8	27.3
12	160.8	29.1	30.3	25.6	13.8	47.4	110.6	98.2	181.3	78.8	37.0	14.3
13	166.7	28.8	28.2	25.6	19.2	44.6	138.5	94.6	188.8	76.5	34.8	26.5
14	149.4	28.8	25.4	25.6	16.3	40.5	149.4	100.0	196.3	74.5	34.8	25.8
15	152.2	28.8	27.6	25.6	28.9	38.0	141.2	115.6	194.3	76.5	34.8	28.5
16	149.4	28.5	27.3	25.6	22.8	38.0	120.3	146.1	192.5	74.5	33.8	18.6
17	143.8	28.5	27.0	25.6	19.2	35.5	115.3	111.7	192.5	64.3	31.2	18.6
18	127.9	28.5	27.0	25.6	19.4	41.9	110.6	120.3	192.5	64.3	31.2	18.6
19	115.3	28.2	26.7	25.6	23.5	39.2	105.9	150.9	178.8	60.8	37.0	18.6
20	103.5	28.5	26.4	62.5	29.5	152.2	96.8	212.0	165.8	58.8	37.0	18.6
21	101.2	28.2	26.2	24.2	21.7	138.5	187.0	171.4	153.3	57.0	37.0	18.6
22	103.5	28.5	26.0	16.3	23.5	130.4	283.1	179.5	150.0	55.5	34.8	18.6
23	86.0	28.2	25.8	15.2	20.4	120.3	271.5	163.7	146.8	53.8	32.8	18.6
24	78.0	28.5	25.8	43.2	23.2	115.3	249.3	169.7	135.5	53.8	33.8	26.5
25	70.4	28.2	25.8	25.1	27.3	110.6	224.6	178.8	125.0	52.0	34.8	26.0
26	63.4	28.2	25.8	20.0	24.2	101.2	228.0	181.8	128.0	52.0	34.8	26.0
27	48.9	28.2	25.8	17.3	22.4	120.3	214.4	231.0	131.0	52.0	35.8	25.3
28	47.9	27.9	25.6	16.2	22.4	138.5	197.8	281.3	134.0	52.0	34.8	25.3
29	50.4	27.9	25.6	16.2	15.7	138.5	194.6	377.0	137.3	50.5	34.8	25.3
30	48.9		25.4	31.2	51.9	86.0	185.0	416.7	140.3	49.0	31.8	25.3
31	59.8		25.4		48.9		175.8	385.7		49.0		25.3
Total	3014.8	810.5	881.8	773.4	778.9	2180.1	5139.8	4556.8	5185.8	2278.8	1986.9	736.2
Mean	97.25	27.95	28.45	25.78	25.13	72.67	165.8	146.99	172.86	73.51	36.23	23.75

Annual Mean

Table 13-10 Revised Daily Discharge at Bato G.S.
(1969) (m³/sec)

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
1	22.3	9.3	8.9	10.4	9.8	16.8	36.8	120.3	86.0	110.6	33.3	39.2
2	22.3	9.3	8.9	15.7	8.9	19.8	35.5	105.9	101.2	110.6	33.3	35.5
3	22.3	9.3	8.9	12.6	8.6	15.8	32.1	78.0	92.4	108.2	33.3	39.7
4	22.3	9.3	8.9	9.8	9.8	27.3	34.3	68.6	92.4	108.2	32.6	41.8
5	21.5	10.4	8.9	8.9	12.9	28.5	40.5	96.8	92.4	101.2	32.1	39.2
6	21.5	10.1	8.9	8.6	12.9	25.3	39.2	76.1	94.6	111.7	30.9	39.2
7	21.5	10.1	8.6	8.6	10.2	29.5	35.5	72.3	94.6	130.4	29.9	35.5
8	21.5	9.8	8.6	10.1	10.2	27.3	35.5	80.0	94.6	163.5	34.0	33.3
9	21.5	9.8	8.6	17.4	11.1	24.0	33.3	70.4	94.6	134.4	38.3	33.3
10	21.0	9.8	8.6	18.6	12.0	14.8	33.3	70.4	94.6	124.6	43.2	34.3
11	21.0	9.8	8.6	11.6	16.8	13.4	30.9	70.4	92.4	111.6	43.2	36.8
12	21.0	9.3	8.6	13.5	10.7	13.4	30.9	70.4	92.4	109.8	43.2	43.2
13	21.0	9.3	8.6	10.7	11.1	12.5	29.9	72.3	92.4	103.5	41.9	41.9
14	21.0	9.3	8.9	9.8	22.8	12.9	28.9	72.3	92.4	91.4	40.5	46.1
15	21.0	9.3	8.9	9.3	22.2	12.5	30.9	84.0	92.4	111.6	39.8	41.9
16	21.0	9.3	8.9	9.3	15.8	12.5	51.9	76.1	115.3	110.6	39.2	43.2
17	21.0	9.3	8.9	8.9	15.8	12.5	41.9	76.1	108.2	116.9	43.9	44.6
18	21.0	9.3	8.9	8.9	24.0	12.5	35.5	82.0	108.2	120.7	48.9	44.6
19	21.0	9.3	8.9	8.9	24.0	12.5	38.0	90.2	115.3	110.6	24.2	41.9
20	21.0	9.3	8.9	8.9	24.8	13.0	70.4	84.0	112.9	110.6	26.9	39.2
21	21.0	9.3	8.9	8.6	23.5	12.9	66.9	84.0	110.6	140.6	33.3	38.0
22	17.4	9.3	8.6	8.6	21.0	12.9	63.4	84.0	110.6	108.2	33.3	44.6
23	16.3	9.3	8.6	8.6	18.0	12.0	63.4	84.0	110.6	108.2	30.9	44.6
24	12.9	9.3	8.6	8.6	15.8	12.0	65.0	84.0	110.6	108.2	30.9	39.2
25	12.5	9.3	8.6	8.3	14.3	12.6	56.6	84.0	110.6	108.2	38.0	36.8
26	11.1	8.9	8.6	8.3	11.1	13.8	63.4	92.4	110.6	75.1	53.5	35.5
27	10.2	8.9	8.6	8.3	12.5	10.4	211.0	86.0	110.6	55.5	101.2	33.3
28	10.7	8.9	8.3	8.3	12.0	12.9	245.6	86.0	110.6	48.6	55.0	32.1
29	9.8	8.6	8.6	8.3	10.2	11.6	178.8	84.0	110.6	46.1	46.1	35.5
30	9.8	8.6	8.6	8.6	9.4	36.8	125.4	90.2	110.6	43.9	40.5	35.5
31	9.8	8.6	8.6	9.4	9.4	103.5	103.5	90.2	110.6	41.9	40.5	53.5
Total	569.2	263.9	270.5	305.0	451.6	504.7	1988.2	2565.4	3065.3	3185.2	1195.3	1223.0
Mean	18.36	9.43	8.73	10.17	14.57	16.82	64.14	82.75	102.18	102.75	39.84	39.45

Annual Mean

Table 3-1/ Revised Daily Discharge at Bato G.S.
(1970) (m³/sec)

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
1	35.8	19.8	9.8	12.6	10.1	24.0	78.0	138.4	96.1	99.0	169.7	78.0
2	31.8	17.7	10.1	10.1	10.1	26.5	74.5	134.4	87.8	96.8	158.0	181.8
3	32.8	16.6	9.8	11.3	10.1	30.0	70.3	130.5	83.3	115.3	175.8	117.8
4	26.0	14.8	9.3	10.4	8.3	43.3	70.3	122.6	85.5	96.8	141.2	70.4
5	22.3	12.4	13.5	13.8	8.3	28.5	68.6	115.1	91.4	80.0	133.1	61.5
6	44.5	13.0	13.8	13.0	7.8	28.0	66.3	106.2	83.3	101.2	143.8	72.3
7	38.3	12.6	10.4	11.3	7.8	53.8	66.3	100.9	86.6	125.4	117.8	72.3
8	37.0	11.8	9.8	11.8	8.3	50.5	64.3	108.0	78.0	135.8	96.8	66.9
9	34.8	11.0	9.3	11.3	7.8	44.5	62.5	106.2	75.2	130.4	92.4	61.5
10	42.0	10.4	8.9	10.4	8.6	105.5	60.8	104.5	78.8	105.9	86.0	63.4
11	37.0	13.8	8.9	10.1	7.4	102.8	58.8	109.8	125.0	99.0	82.0	56.6
12	37.0	13.5	8.6	9.8	7.4	102.8	57.0	120.7	58.8	86.0	86.0	46.1
13	34.8	11.3	8.6	9.3	9.3	146.8	57.0	136.4	58.8	135.8	80.0	43.2
14	32.8	11.0	8.6	8.9	7.4	170.5	58.8	143.5	58.8	542.0	74.1	48.9
15	31.8	10.1	8.3	8.9	8.6	131.0	58.8	157.8	58.8	569.2	80.0	84.0
16	33.8	9.8	8.3	8.6	11.8	131.0	57.0	192.5	58.8	361.6	72.3	58.2
17	32.8	9.8	8.3	8.6	10.1	125.0	53.8	151.4	58.8	249.3	101.2	65.0
18	30.8	9.8	8.3	8.3	8.9	131.0	52.0	125.0	58.8	191.4	86.0	68.6
19	30.0	9.8	8.3	7.8	11.0	128.0	50.5	116.9	58.8	160.8	175.8	61.5
20	29.3	9.3	8.3	7.8	12.1	128.0	49.0	101.2	35.5	133.1	188.2	56.6
21	28.5	9.3	7.8	7.4	12.6	120.7	55.5	101.2	35.5	122.8	117.8	61.5
22	27.3	9.8	7.8	7.4	10.1	115.1	52.0	99.0	35.5	112.9	125.4	63.4
23	26.5	9.8	9.8	7.4	8.9	106.2	46.1	94.6	35.5	125.4	130.4	53.5
24	26.0	9.8	8.9	9.3	8.6	99.3	38.0	100.9	35.5	105.9	152.2	50.4
25	25.3	9.3	7.8	12.1	8.6	93.0	36.8	108.2	35.5	92.4	158.0	46.1
26	24.8	9.3	7.8	13.0	8.3	88.2	33.3	108.0	35.5	92.4	105.9	44.6
27	22.8	9.8	9.3	9.3	11.0	83.6	39.2	106.2	65.0	235.1	92.4	43.2
28	22.9	9.8	9.8	11.0	11.3	80.8	55.0	104.5	58.2	133.1	103.5	43.2
29	22.8	9.8	9.8	10.4	9.8	80.0	100.9	95.0	55.0	108.2	127.9	40.5
30	20.8	9.8	9.8	11.0	11.0	80.0	135.8	90.3	101.2	138.5	127.9	39.2
31	22.3		12.1		11.3		140.6	85.5		214.4		38.0
Total	945.4	325.2	289.9	302.4	292.7	2678.4	1967.8	3615.4	1969.3	5095.9	3581.6	1958.2
Mean	30.90	11.61	9.35	10.08	9.44	89.28	63.48	116.63	65.64	164.38	119.39	63.17

Annual Mean

Table (3-2) Revised Daily Discharge at Bato G.S.
(1971) (m³/sec)

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
1	40.5	28.8	30.9	41.9	42.9	58.8	68.6	130.4	61.5	96.8	112.9	256.7
2	48.9	28.8	28.8	36.8	43.7	58.8	66.2	175.8	70.4	99.7	110.6	209.4
3	68.6	28.8	29.1	36.8	45.4	54.5	66.2	129.2	80.0	102.7	108.2	166.7
4	50.4	28.5	29.4	36.8	44.0	50.5	72.3	90.2	74.8	105.9	101.2	147.5
5	47.4	32.1	29.4	35.5	40.5	57.8	82.0	80.0	69.8	109.4	94.6	129.6
6	44.6	40.5	29.4	35.5	49.7	65.0	81.0	70.4	65.0	112.9	90.2	112.9
7	43.2	36.8	29.4	35.5	43.3	65.0	80.0	68.6	70.4	189.7	86.0	95.6
8	40.5	30.9	29.4	32.1	58.9	65.0	67.4	66.9	76.1	287.0	82.0	80.0
9	40.5	33.3	29.4	29.4	60.1	62.5	67.4	65.0	76.1	377.7	96.8	82.0
10	36.8	46.1	29.9	33.3	62.5	54.5	66.2	109.4	76.1	481.2	112.9	84.0
11	36.8	44.6	29.9	32.1	66.2	46.0	79.3	166.7	90.2	597.1	112.9	85.4
12	40.5	39.2	72.3	30.3	67.4	45.0	94.6	121.5	105.9	775.9	112.9	86.7
13	40.5	35.5	181.8	30.3	71.0	44.3	74.1	84.0	122.8	1021.1	112.1	88.2
14	40.5	34.3	108.2	30.3	66.3	43.3	75.3	76.6	89.2	385.9	111.2	76.1
15	39.2	43.2	80.0	29.9	66.2	53.0	121.5	81.4	61.5	84.0	110.6	65.0
16	39.2	41.9	70.4	30.3	66.2	64.3	214.4	76.6	65.9	85.4	100.2	69.6
17	38.0	40.5	66.9	32.1	125.4	85.5	181.8	95.6	70.4	86.7	90.2	74.1
18	38.0	43.2	58.2	29.9	71.0	89.8	80.0	138.5	86.7	88.2	85.0	76.1
19	39.2	58.2	51.9	29.9	72.4	82.2	72.4	121.5	105.0	102.3	80.0	78.0
20	35.5	72.3	48.9	29.4	75.2	76.5	72.4	105.9	125.4	117.8	87.4	80.0
21	35.5	59.8	44.6	31.2	125.4	62.5	57.0	93.1	80.0	97.8	95.3	77.0
22	32.1	48.9	43.2	31.2	94.6	72.4	66.2	81.3	53.9	80.0	103.5	74.1
23	29.9	43.2	40.5	32.2	75.2	70.4	66.8	70.4	54.8	80.7	121.5	75.1
24	28.9	40.5	40.5	32.6	72.4	68.6	65.0	61.5	56.9	81.3	141.2	76.1
25	28.9	39.2	43.2	34.6	73.8	66.2	66.2	53.8	57.9	82.0	145.2	72.9
26	28.8	36.8	36.8	34.6	68.6	67.4	58.8	80.0	61.3	79.0	149.4	69.8
27	28.8	35.5	35.5	37.2	60.8	87.4	59.8	112.9	61.5	76.1	174.8	66.9
28	28.5	35.5	34.3	38.3	55.5	112.9	60.8	91.8	72.3	122.8	202.1	65.9
29	28.5		38.0	38.3	63.7	92.4	61.3	72.9	84.0	125.4	231.5	65.0
30	28.5		41.9	38.3	62.5	74.1	61.5	56.6	90.2	120.3	245.6	65.0
31	28.8		43.2		58.8		92.4	59.8		117.8		65.0
Total	1176.0	1126.9	1505.3	1006.6	2049.6	1996.6	2498.9	2888.3	2316.0	6370.6	3608.0	2916.4
Mean	37.94	40.25	48.56	33.55	66.12	66.55	80.61	93.17	77.20	205.50	120.27	94.08
Annual Mean												

FA

GA

GA

Table 1373 Revised Daily Discharge at Bato G.S.
(1972) (m³/sec)

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
1	61.5	50.4	207.7	22.8	16.7	49.7	54.6	150.0	119.3	55.0	40.5	46.1
2	61.5	50.4	78.0	22.7	17.3	52.8	55.5	150.0	172.8	55.0	39.2	46.1
3	61.5	45.2	22.9	22.7	18.0	50.4	55.5	148.3	188.6	53.5	38.0	46.1
4	63.4	40.5	22.5	22.9	17.3	51.9	53.0	146.8	207.7	51.9	49.9	46.1
5	65.0	41.4	22.5	22.9	20.4	53.5	50.5	178.8	153.5	56.6	63.9	43.2
6	63.4	42.4	22.7	22.7	22.2	55.8	49.0	188.6	146.8	61.5	80.0	40.5
7	61.5	43.2	22.7	22.7	23.5	55.8	47.5	191.1	177.3	60.5	73.3	40.5
8	62.7	43.2	22.5	22.7	24.3	53.8	50.0	231.5	287.0	59.3	66.9	40.5
9	63.9	43.2	22.5	22.7	24.3	50.7	52.8	306.8	274.2	58.2	64.2	39.2
10	65.0	41.9	22.4	23.0	24.3	53.8	55.5	231.5	385.3	56.6	61.5	38.0
11	65.0	40.5	22.5	23.0	22.2	52.0	117.8	193.7	370.3	55.0	53.0	36.8
12	65.0	34.0	22.2	22.7	19.2	49.0	212.0	176.5	217.8	55.0	45.1	36.2
13	64.2	28.3	22.1	35.5	19.8	52.0	160.0	198.8	122.6	55.0	38.0	35.5
14	63.4	23.2	22.2	43.2	20.4	55.5	116.3	174.0	155.1	53.5	36.8	36.2
15	71.6	23.2	22.2	30.9	27.3	40.3	277.8	231.6	214.4	51.9	48.7	36.8
16	80.7	23.2	22.2	35.5	29.5	37.5	427.1	219.8	216.6	50.4	49.7	34.8
17	90.2	22.8	22.3	30.9	33.0	33.0	729.8	228.0	218.9	49.6	55.5	32.8
18	76.1	22.8	22.2	20.9	34.8	25.9	377.0	212.0	221.1	48.9	52.8	30.9
19	63.4	22.8	22.3	14.8	32.1	25.1	224.0	190.0	214.4	46.1	51.0	29.4
20	64.2	22.8	22.5	13.6	31.2	25.6	228.3	169.3	207.7	43.2	49.0	27.9
21	65.0	22.7	22.7	12.6	34.8	25.9	232.5	150.0	204.3	43.2	52.0	26.4
22	63.9	22.7	22.7	14.5	37.5	26.5	221.3	150.0	201.1	43.2	55.5	25.1
23	62.7	22.7	22.7	16.5	36.6	32.1	210.5	150.0	141.2	43.2	52.0	24.6
24	61.5	22.7	22.7	19.4	34.8	36.6	200.0	148.3	92.4	47.4	49.0	24.2
25	61.5	22.7	22.7	16.7	37.5	43.5	314.9	146.8	60.7	51.9	49.4	23.6
26	61.5	22.7	22.8	14.8	39.2	53.5	580.3	146.8	56.9	43.2	55.0	23.0
27	60.7	22.7	22.8	14.8	40.5	53.5	432.6	146.8	55.0	35.5	72.3	22.4
28	59.8	22.6	22.8	14.8	41.9	53.5	306.8	146.8	55.0	37.7	68.6	21.2
29	59.3	76.1	22.8	15.2	43.2	49.6	231.5	151.5	55.0	39.7	65.0	20.2
30	58.8		22.9	16.2	67.7	46.1	186.0	156.5	55.0	41.9	55.0	20.2
31	58.2		22.8		99.0	174.0	174.0	137.3		41.9		20.6
Total	2006.1	963.0	939.5	654.3	990.5	1344.9	6484.4	5527.9	5248.0	1545.5	1630.8	1015.1
Mean	64.71	33.21	30.31	21.81	31.95	49.83	209.17	178.32	174.93	49.85	54.36	32.75

Annual Mean

Table 3-4 Revised Daily Discharge at Bato G.S.
(1973)
(m³/sec)

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
1	20.6	18.7	18.7	17.3	11.0	16.7	38.0	43.2	46.1	135.8	101.2	84.0
2	21.0	18.7	18.7	15.2	11.0	26.9	51.9	42.5	46.1	133.1	101.2	84.0
3	21.0	18.7	18.7	12.1	11.8	41.9	50.4	41.9	46.1	130.4	93.8	84.0
4	21.0	18.4	18.7	9.3	12.6	61.5	48.9	44.0	48.1	129.2	86.7	85.0
5	21.0	19.0	18.7	9.3	13.1	46.1	40.5	46.4	50.4	127.9	80.0	86.0
6	20.6	19.4	18.7	9.3	13.8	33.3	33.3	48.9	50.4	207.7	80.0	83.0
7	20.2	19.4	19.0	9.1	14.3	24.2	34.8	50.4	50.4	306.8	80.0	80.0
8	19.8	24.2	18.7	8.8	13.6	17.3	36.3	51.9	59.3	425.4	77.0	80.0
9	19.8	30.9	18.7	8.6	13.0	20.0	38.0	47.4	69.2	279.2	74.1	80.0
10	19.8	25.7	18.7	9.8	12.8	23.2	39.2	43.2	80.0	163.7	77.3	80.0
11	19.8	21.0	19.0	11.0	12.6	26.9	40.5	42.4	91.3	141.2	80.7	80.0
12	19.8	19.0	19.0	11.3	10.4	38.0	39.2	41.4	103.5	136.4	84.0	80.0
13	19.4	18.7	19.8	11.8	24.6	25.1	38.0	40.5	124.0	128.6	80.0	82.0
14	19.4	18.4	19.8	11.5	55.0	21.7	33.3	43.9	146.5	122.0	76.1	84.0
15	19.0	18.7	19.8	11.1	32.1	18.7	28.9	47.4	126.2	169.4	99.0	83.4
16	19.4	18.7	19.8	11.0	17.3	18.2	26.5	45.2	107.4	198.3	125.4	82.7
17	19.8	18.4	20.2	11.1	15.2	17.8	27.0	43.2	90.2	208.0	154.1	82.0
18	19.4	18.4	20.2	11.3	13.5	17.3	28.9	43.7	75.1	281.3	186.0	79.0
19	19.4	18.4	20.2	11.0	13.1	22.0	30.4	44.0	61.5	242.1	221.1	76.1
20	19.0	18.4	20.6	10.4	12.8	27.9	32.1	44.6	59.8	457.8	292.9	76.1
21	19.0	18.4	20.5	10.6	12.6	19.0	33.6	49.6	58.2	769.6	374.7	76.1
22	19.0	18.4	9.9	10.8	13.1	17.5	35.1	55.0	59.3	1291.6	258.6	74.8
23	19.0	18.4	10.1	11.0	13.8	26.9	36.8	56.6	60.5	597.1	163.7	73.6
24	18.7	18.4	9.8	11.0	13.6	51.9	38.7	58.2	61.5	249.3	135.8	72.3
25	18.7	18.4	9.3	11.0	13.5	88.2	40.5	53.0	96.8	158.0	124.0	88.2
26	19.0	18.4	9.3	11.0	15.2	44.6	41.9	47.9	141.2	135.8	112.9	105.9
27	18.4	18.7	11.0	11.8	17.0	21.4	43.2	43.2	112.9	132.2	109.4	84.0
28	22.2	18.7	12.6	11.1	19.4	21.0	44.6	38.0	88.2	128.7	105.9	65.0
29	26.9	18.7	16.5	10.4	41.2	22.2	46.1	33.3	103.5	125.4	101.2	63.9
30	21.7	18.7	22.4	9.8	76.1	27.9	47.4	38.0	117.8	131.7	96.8	62.7
31	18.7	18.7	19.4	19.4	39.2	46.1	46.1	43.2	138.5	138.5	61.5	61.5
Total	620.5	549.0	536.5	329.1	608.3	885.3	1190.1	1412.1	2431.5	7982.2	3833.6	2459.3
Mean	20.02	19.61	17.31	10.97	19.62	29.51	38.39	45.55	81.05	257.69	127.79	79.33

Annual Mean

62.22

Table 13-1 Revised Daily Discharge at Bato G.S.
(1974)

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
1	58.2	33.3	19.4	15.7	23.2	43.2	101.2	146.5	94.6	40.4	76.1	68.6
2	58.2	32.5	18.7	15.7	18.7	47.4	97.8	146.5	96.8	45.4	92.4	68.6
3	56.6	31.8	18.0	16.0	25.1	51.9	94.6	144.7	82.0	47.4	110.6	66.9
4	55.0	30.9	17.5	15.7	25.1	49.6	93.4	142.8	68.6	46.4	130.4	65.0
5	54.3	30.9	20.0	15.7	25.1	47.4	92.4	141.2	54.8	44.4	103.5	63.4
6	53.8	30.9	23.2	15.4	25.1	52.6	95.3	135.8	56.9	45.4	80.0	61.5
7	53.1	33.3	20.9	15.4	25.1	58.2	98.3	130.4	54.8	40.5	89.2	60.5
8	52.4	35.5	18.7	15.7	25.1	61.5	101.2	127.9	52.8	39.3	99.0	66.2
9	51.9	36.8	17.8	15.4	19.0	65.0	97.8	125.4	52.0	38.3	86.7	66.2
10	46.7	38.0	17.0	16.2	18.7	68.6	94.6	135.8	54.8	48.1	75.5	62.5
11	41.9	39.2	17.2	16.7	21.7	109.5	95.6	146.5	53.8	90.2	65.0	60.1
12	41.4	36.2	16.9	17.3	32.1	110.8	96.8	158.0	51.8	85.4	66.9	55.8
13	41.0	33.3	16.9	16.0	46.1	117.8	95.3	185.0	48.7	80.7	68.6	54.8
14	40.5	32.1	16.9	15.1	38.0	125.0	93.8	214.4	48.7	76.1	66.9	84.0
15	39.8	30.9	17.3	15.1	30.9	133.0	92.4	115.3	48.4	75.1	65.0	133.1
16	39.2	30.9	16.9	18.3	29.4	141.3	95.6	105.9	46.4	74.1	68.6	194.6
17	38.7	30.9	16.6	25.1	27.9	149.2	99.0	104.4	46.4	159.3	72.3	135.8
18	38.0	30.9	16.6	19.0	27.9	132.5	101.2	102.7	46.4	279.2	76.1	88.2
19	38.3	31.6	16.6	15.7	27.9	116.9	103.5	101.2	46.4	196.8	76.1	78.0
20	38.8	32.1	16.6	15.7	27.9	106.2	106.5	99.0	45.4	128.7	76.1	68.6
21	39.2	25.6	16.6	17.2	26.4	97.7	169.3	96.8	46.4	76.1	74.1	73.6
22	39.2	20.0	16.3	17.5	25.1	91.4	174.0	92.4	47.4	68.6	72.3	78.7
23	39.2	19.2	16.6	18.1	26.4	83.6	183.5	88.2	46.4	61.5	71.6	84.0
24	41.2	18.2	16.3	18.4	27.9	80.0	162.4	88.9	45.4	59.0	71.1	82.0
25	43.2	17.8	16.3	18.4	30.4	87.1	140.6	89.6	45.4	56.6	70.4	80.0
26	41.4	17.8	16.3	20.0	33.3	94.6	127.9	90.2	45.4	57.7	70.4	80.0
27	39.7	17.5	16.0	18.7	33.3	93.4	125.4	91.3	47.4	64.8	70.4	80.0
28	38.0	18.7	16.0	19.1	33.3	92.4	122.8	92.4	45.4	64.8	69.6	78.7
29	37.3	18.7	15.7	18.1	33.3	94.6	120.3	91.3	43.4	62.4	68.6	77.3
30	36.8	16.0	16.0	19.4	36.8	99.0	122.8	90.2	41.4	65.0	68.6	76.1
31	35.5	15.7	15.7	40.5	40.5	92.4	125.4	92.4	70.4	70.4	68.6	76.1
Total	1368.5	816.8	537.5	514.8	886.7	2701.4	3520.7	3713.1	1604.5	2388.1	2352.1	2468.9
Mean	44.15	29.17	17.34	17.16	28.60	90.05	113.57	119.78	53.48	77.04	78.40	79.64

Annual Mean

Table 13-76 Revised Daily Discharge at Bato G.S.
(1975) (m³/sec)

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
1	76.1	48.9	13.8	21.7	14.8	14.8	14.8	17.3	76.1	72.3	32.1	19.4
2	75.1	48.9	13.8	23.2	14.8	14.8	16.2	16.7	72.3	44.6	35.5	19.4
3	74.1	48.9	13.8	23.7	14.6	14.8	16.2	17.3	63.4	32.1	33.3	18.7
4	72.3	48.1	13.6	24.2	14.5	14.3	19.4	18.0	63.4	27.9	41.9	20.9
5	70.4	47.4	13.5	28.3	14.3	14.8	24.2	21.7	65.0	29.9	58.2	19.4
6	68.6	46.7	13.8	32.8	14.1	15.2	22.4	15.7	70.4	33.3	72.3	19.4
7	68.6	46.1	14.3	38.0	13.8	14.8	20.9	16.2	58.2	32.1	70.4	18.7
8	68.6	42.4	14.3	33.3	12.8	14.8	18.7	17.3	72.3	30.9	66.9	18.7
9	69.6	38.8	14.3	28.9	11.8	14.3	17.3	17.3	74.1	28.9	61.5	18.7
10	70.4	35.5	14.3	22.4	12.8	14.8	17.3	17.3	72.3	32.1	56.6	18.7
11	68.6	35.0	13.8	17.3	14.0	14.8	16.2	56.6	86.0	26.9	46.1	18.7
12	66.9	34.3	13.5	16.7	15.2	14.8	14.3	53.5	92.4	24.2	39.2	18.0
13	65.0	29.9	14.8	16.2	15.2	15.7	48.9	48.9	115.3	23.2	39.2	18.0
14	65.0	25.9	16.2	15.7	15.2	14.8	15.2	46.1	117.8	24.2	29.9	17.3
15	65.0	25.1	26.9	15.5	14.8	13.8	14.3	41.9	120.3	25.1	26.9	17.3
16	63.4	24.2	43.2	15.2	15.2	15.2	13.8	47.4	249.3	23.2	26.9	17.3
17	61.5	23.2	65.0	25.1	14.3	14.8	23.2	125.4	221.1	24.2	26.9	18.0
18	61.5	25.6	66.9	40.5	14.3	14.8	21.7	115.3	201.1	24.2	26.9	48.9
19	61.5	27.9	68.6	38.8	14.3	14.8	20.0	103.5	181.8	24.2	25.9	74.1
20	61.5	27.9	36.2	37.2	14.1	14.8	18.0	112.9	172.7	48.9	27.9	90.0
21	61.5	27.9	24.2	35.5	13.8	15.7	18.0	125.4	175.8	40.5	26.9	80.0
22	61.5	25.1	21.0	28.9	14.1	15.2	16.2	112.9	152.2	35.5	26.9	68.6
23	59.8	22.4	18.5	23.2	14.3	14.8	20.9	101.2	135.8	36.8	25.9	74.1
24	58.2	20.0	16.2	23.7	14.6	14.8	21.7	103.5	127.9	35.5	25.9	74.1
25	58.8	19.7	16.2	24.2	15.0	16.7	16.2	103.5	149.4	33.3	25.9	72.3
26	59.3	19.4	16.2	21.0	15.2	16.7	20.0	103.5	127.9	32.1	24.2	68.6
27	59.8	18.3	16.2	18.5	15.0	15.2	20.9	94.6	207.7	32.1	25.1	88.2
28	58.2	17.3	16.2	16.2	14.8	15.2	22.4	92.4	489.6	30.9	21.7	101.2
29	56.6	17.3	17.3	15.2	15.0	15.7	20.0	84.0	84.0	30.9	20.0	92.4
30	55.0	18.7	18.7	14.5	15.2	15.7	19.4	80.0	99.0	32.1	19.4	92.4
31	53.5	20.0	20.0	15.2	15.2	19.4	19.4	78.0	99.0	30.9	19.4	101.2
Total	199559	900.8	705.3	735.4	446.2	450.9	574.9	2005.3	3994.6	1003.0	1086.4	1432.7
Mean	64.38	32.17	22.75	24.51	14.39	15.03	10.55	64.69	133.15	32.35	36.21	46.22
Annual Mean												42.03

Table 3-7 Revised Daily Discharge at Bato G.S.
(1976) (m³/sec)

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
1	72.3	20.0	15.7	16.2	20.0	163.7	101.2	96.8	29.9	94.6	36.8	20.9
2	66.9	19.4	15.7	16.2	20.9	160.8	99.0	82.0	26.9	86.0	35.5	20.9
3	70.4	19.4	15.7	15.2	20.0	166.7	101.2	72.3	33.3	76.1	38.0	17.3
4	58.2	18.7	15.2	14.8	20.0	166.7	96.8	84.0	40.5	61.5	34.3	18.7
5	82.0	18.7	15.2	16.2	29.9	138.5	88.2	90.2	39.2	58.2	44.6	19.4
6	94.6	18.7	18.0	21.7	33.3	133.1	86.0	65.0	38.0	44.6	39.2	21.7
7	84.0	19.4	20.9	23.2	28.9	127.9	90.2	72.3	50.4	65.0	36.8	21.7
8	72.3	18.7	46.1	43.2	26.9	120.3	80.0	63.4	58.2	96.8	36.8	21.7
9	66.9	20.9	55.0	55.0	23.2	112.9	80.0	74.1	61.5	80.0	35.5	20.9
10	66.9	19.4	47.4	41.9	20.9	108.2	80.0	92.4	55.0	74.1	43.2	19.4
11	66.9	19.4	39.2	28.9	22.4	103.5	82.0	70.4	55.0	61.5	38.0	18.7
12	66.9	18.0	27.9	27.9	24.2	99.0	80.0	115.3	55.0	51.9	34.3	21.7
13	74.1	18.0	20.9	25.1	21.7	99.0	78.0	125.4	48.9	59.8	38.0	22.4
14	74.1	17.3	18.7	23.2	20.9	103.5	74.1	96.8	58.2	78.0	34.3	20.9
15	68.6	16.7	17.3	21.7	20.9	108.2	112.9	110.6	65.0	43.2	53.5	20.9
16	70.4	19.4	16.7	20.0	20.9	103.5	99.0	74.1	48.9	35.5	40.5	20.9
17	53.5	18.0	16.2	18.7	20.0	99.0	90.2	101.2	70.4	22.4	38.0	20.9
18	47.4	17.3	18.0	17.3	19.4	99.0	80.0	99.0	47.4	12.6	34.3	21.7
19	43.2	16.7	15.7	27.9	20.0	99.0	65.0	70.4	47.4	11.8	32.1	19.4
20	35.5	16.2	15.2	30.9	20.0	96.8	92.4	53.5	44.6	70.4	32.1	21.7
21	27.9	16.2	15.2	28.9	22.4	96.8	90.2	61.5	80.0	44.6	28.9	16.2
22	29.9	15.2	15.2	25.1	43.2	92.4	96.8	58.2	90.2	40.5	66.9	18.0
23	29.9	14.8	15.2	22.4	224.6	86.0	94.6	84.0	58.2	38.0	34.3	19.4
24	27.9	15.7	15.7	21.7	411.3	84.0	96.8	65.0	43.2	43.2	34.3	18.7
25	27.9	16.7	16.2	20.9	416.0	80.0	94.6	46.1	35.5	43.2	32.1	18.0
26	25.9	17.3	15.7	20.0	283.1	80.0	94.6	51.9	35.5	43.2	28.9	18.0
27	25.9	18.0	15.2	20.0	228.0	80.0	96.8	51.9	40.5	34.3	28.9	17.3
28	24.2	16.7	15.2	19.4	185.0	78.0	94.6	61.5	53.5	33.3	24.2	17.3
29	22.4	16.2	15.2	20.9	169.7	74.1	96.8	82.0	70.4	35.5	25.1	17.3
30	21.7		17.3	20.0	166.7	68.6	99.0	44.6	55.0	33.3	25.1	16.7
31	21.7		16.7	16.7	166.7		103.5	38.0		41.9		16.2
Total	1620.4	517.1	643.5	724.5	2771.1	3229.2	2814.5	2353.9	1535.7	1615.0	1084.5	604.9
Mean	52.27	17.83	20.76	24.15	89.39	107.64	90.79	75.93	51.19	52.10	36.15	19.51

Annual Mean

Table 7/4 Actually Measured Discharge at Old Cableway of Bante G. S.

NO.	DATE	G.H. (m)	Q (m ³ /sec.)	A ₂ (m ²)	V (m ³ /sec.)	R (m)	I	N
1	Apr. 01 '80	0.97	19.58	19.35	1.01	0.45		
2	May 24 '80	1.10	21.25	20.44	1.04	0.47		
3	Sep. 17 '80	1.33	37.17	30.16	1.23	0.61		
4	Oct. 17 '80	1.25	65.21	31.14	2.09	0.61		
5	Nov. 21 '80	2.15	64.61	30.44	1.47	0.64		
6	Dec. 17 '80	2.50	40.77	27.24	1.50	0.53		
7	Mar. 24 '81	1.85	12.01	13.07	0.92	0.42		
8	Apr. 09 '81	1.80	12.41	12.87	0.96	0.43		
9	May 19 '81	1.81	12.85	13.76	0.93	0.43		
10	Jun. 24 '81	2.00	17.79	20.79	0.87	0.44		
11	Jly. 24 '81	2.19	47.29	30.40	1.56	0.59		
12	Aug. 07 '81	2.22	51.09	39.20	1.30	0.60		
13	Aug. 26 '81	2.27	53.12	31.32	1.70	0.43		
14	Sep. 23 '81	2.32	66.06	45.40	1.46	0.58		
15	Oct. 20 '81	2.24	33.84	26.04	1.30	0.35		
16	Oct. 29 '81	2.46	90.88	54.60	1.66	0.70		
17	Nov. 11 '81	2.48	108.87	62.28	1.75	0.76		
18	Nov. 23 '81	2.31	71.50	43.60	1.64	0.57		
19	Dec. 09 '81	2.33	60.14	40.88	1.47	0.45		
20	Jan. 12 '82	2.11	20.08	23.24	0.86	0.34		
21	Feb. 10 '82	2.13	18.02	16.81	1.07	0.28		
22	Feb. 17 '82	2.16	17.24	16.34	1.06	0.28		
23	Feb. 18 '82	2.16	15.85	16.08	0.99	0.28		
24	Feb. 22 '82	2.17	19.37	19.90	0.97	0.28		
25	Feb. 24 '82	2.12	17.49	17.08	1.02	0.28		
26	Feb. 26 '82	2.11	16.28	16.01	1.02	0.26		
27	Mar. 02 '82	2.10	14.67	15.43	0.95	0.26		
28	Jun 01 '82	2.15	26.81	23.59	1.14	0.31		
29	Jun. 03 '82	2.18	27.10	23.85	1.14	0.31		

Remarks : GH = Gauge Height, A = Flow Area, R = Hydraulic Radius,
 Q = Discharge, V = Discharge Velocity, I = Water Surface Slope,
 N = Roughness coefficient