

SAFE YIELD

( Ellagawa : 1965 )

DAILY FLOW TABLE

Table

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	360.0	133.0	76.0	73.0	74.0	21.0	128.0	283.0	39.0	75.0	23.0	95.0	1
2	292.0	90.0	68.0	62.0	67.0	33.0	85.0	328.0	45.0	114.0	22.0	73.0	2
3	190.0	169.0	77.0	55.0	53.0	56.0	75.0	302.0	54.0	88.0	23.0	75.0	3
4	139.0	158.0	79.0	49.0	52.0	42.0	43.0	187.0	57.0	105.0	22.0	50.0	4
5	116.0	110.0	65.0	43.0	38.0	30.0	82.0	116.0	54.0	72.0	24.0	36.0	5
6	96.0	188.0	85.0	40.0	32.0	71.0	148.0	106.0	60.0	52.0	35.0	30.0	6
7	86.0	160.0	69.0	36.0	29.0	73.0	121.0	212.0	70.0	58.0	80.0	27.0	7
8	83.0	176.0	71.0	35.0	26.0	82.0	133.0	133.0	39.0	46.0	186.0	26.0	8
9	187.0	153.0	92.0	33.0	33.0	47.0	107.0	92.0	36.0	35.0	103.0	23.0	9
10	172.0	149.0	138.0	33.0	25.0	25.0	166.0	75.0	80.0	88.0	121.0	23.0	10
11	136.0	111.0	142.0	44.0	24.0	59.0	122.0	63.0	40.0	204.0	225.0	23.0	11
12	141.0	120.0	85.0	58.0	24.0	37.0	80.0	53.0	34.0	132.0	127.0	51.0	12
13	136.0	197.0	64.0	132.0	37.0	29.0	141.0	46.0	46.0	73.0	94.0	52.0	13
14	157.0	310.0	52.0	68.0	115.0	100.0	197.0	42.0	29.0	45.0	53.0	49.0	14
15	199.0	326.0	45.0	48.0	128.0	142.0	94.0	40.0	43.0	96.0	55.0	27.0	15
16	190.0	312.0	41.0	58.0	83.0	210.0	148.0	35.0	28.0	87.0	51.0	46.0	16
17	203.0	255.0	134.0	87.0	53.0	204.0	151.0	34.0	24.0	47.0	37.0	27.0	17
18	137.0	181.0	182.0	120.0	33.0	86.0	181.0	32.0	36.0	36.0	30.0	23.0	18
19	131.0	123.0	90.0	139.0	42.0	57.0	142.0	30.0	171.0	37.0	29.0	21.0	19
20	136.0	98.0	136.0	105.0	37.0	36.0	152.0	28.0	121.0	56.0	30.0	19.0	20
21	195.0	92.0	119.0	56.0	28.0	32.0	195.0	27.0	86.0	63.0	28.0	44.0	21
22	200.0	90.0	187.0	45.0	24.0	26.0	174.0	27.0	70.0	45.0	26.0	97.0	22
23	305.0	208.0	123.0	49.0	22.0	25.0	117.0	26.0	68.0	43.0	27.0	189.0	23
24	351.0	180.0	85.0	80.0	22.0	56.0	144.0	26.0	47.0	37.0	27.0	280.0	24
25	385.0	164.0	217.0	55.0	21.0	31.0	99.0	31.0	34.0	29.0	218.0	382.0	25
26	385.0	135.0	189.0	50.0	21.0	34.0	116.0	30.0	30.0	27.0	103.0	481.0	26
27	336.0	101.0	269.0	68.0	23.0	25.0	90.0	30.0	33.0	27.0	49.0	526.0	27
28	245.0	83.0	240.0	92.0	22.0	24.0	127.0	38.0	120.0	24.0	40.0	585.0	28
29	157.0	77.0	163.0	57.0	38.0	176.0	169.0	46.0	71.0	22.0	39.0	640.0	29
30	125.0	68.0	111.0	90.0	176.0	176.0	233.0	76.0	92.0	23.0	40.0	666.0	30
31	127.0		86.0	110.0	83.0			69.0		25.0	82.0		31
TOTAL	6100.0	4717.0	3600.0	2130.0	1188.0	1990.0	3958.0	2664.0	1759.0	1911.0	2049.0	4666.0	TOTAL
AVE.	196.8	157.2	116.1	68.7	42.4	64.2	131.9	85.9	56.5	61.6	66.1	155.5	AVE.
ANN.AVE.												100.633	ANN.AVE.
1	219.4	132.0	73.0	56.4	56.8	36.4	82.6	243.2	50.0	90.8	22.8	65.8	1
2	124.8	165.2	95.0	35.4	29.0	59.6	134.6	123.6	57.0	55.8	105.0	25.8	2
3	153.8	212.8	77.6	70.0	65.6	73.4	126.8	48.8	38.4	110.0	110.8	40.4	3
4	159.4	193.8	116.6	113.8	49.6	118.6	154.8	31.8	76.0	52.6	35.4	27.2	4
5	287.6	146.8	146.2	57.0	23.4	34.0	145.8	27.4	61.0	43.4	65.2	194.4	5
6	229.2	92.8	176.3	77.8	22.0	63.3	147.0	48.3	69.2	24.7	58.8	579.6	6
1	172.1	148.6	84.0	45.9	42.9	48.0	108.6	183.4	53.5	73.3	63.9	45.8	1
2	156.6	203.3	97.1	91.9	57.6	96.0	140.8	40.3	57.2	81.3	73.1	33.8	2
3	255.7	119.8	162.6	68.4	22.9	50.0	146.4	38.8	65.1	33.2	61.7	387.0	3

( Ellagawa : 1967 )

DAILY FLOW TABLE

Table

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	644.0	324.0	52.0	34.0	25.0	19.0	21.0	75.0	44.0	106.0	69.0	52.0
2	548.0	249.0	127.0	33.0	23.0	18.0	21.0	103.0	114.0	88.0	79.0	45.0
3	443.0	212.0	175.0	30.0	22.0	17.0	20.0	137.0	149.0	88.0	90.0	42.0
4	373.0	216.0	214.0	28.0	22.0	19.0	20.0	178.0	76.0	69.0	132.0	37.0
5	253.0	190.0	165.0	26.0	132.0	28.0	19.0	131.0	154.0	71.0	99.0	35.0
6	206.0	170.0	149.0	25.0	79.0	22.0	19.0	73.0	187.0	126.0	191.0	32.0
7	184.0	182.0	113.0	24.0	43.0	18.0	20.0	49.0	87.0	103.0	126.0	28.0
8	176.0	235.0	119.0	24.0	53.0	17.0	19.0	41.0	100.0	73.0	85.0	30.0
9	218.0	218.0	100.0	23.0	33.0	69.0	20.0	56.0	193.0	69.0	89.0	69.0
10	225.0	127.0	75.0	49.0	26.0	73.0	19.0	65.0	253.0	64.0	80.0	69.0
11	240.0	124.0	63.0	35.0	23.0	91.0	19.0	44.0	243.0	93.0	78.0	28.0
12	220.0	137.0	54.0	29.0	22.0	56.0	21.0	40.0	184.0	125.0	66.0	29.0
13	183.0	192.0	48.0	24.0	22.0	85.0	20.0	49.0	163.0	96.0	83.0	28.0
14	165.0	161.0	42.0	35.0	21.0	60.0	24.0	34.0	267.0	210.0	83.0	26.0
15	164.0	188.0	39.0	60.0	21.0	136.0	26.0	32.0	357.0	168.0	97.0	23.0
16	136.0	227.0	44.0	81.0	21.0	91.0	24.0	49.0	399.0	229.0	83.0	22.0
17	151.0	191.0	37.0	128.0	21.0	88.0	88.0	61.0	322.0	150.0	59.0	69.0
18	272.0	123.0	35.0	142.0	39.0	127.0	69.0	71.0	181.0	104.0	94.0	53.0
19	306.0	133.0	33.0	69.0	30.0	103.0	33.0	73.0	113.0	82.0	109.0	116.0
20	207.0	155.0	33.0	96.0	24.0	120.0	25.0	63.0	92.0	83.0	187.0	153.0
21	151.0	162.0	52.0	66.0	34.0	71.0	22.0	53.0	76.0	83.0	225.0	220.0
22	131.0	119.0	48.0	63.0	47.0	105.0	54.0	102.0	74.0	63.0	197.0	229.0
23	162.0	97.0	43.0	43.0	30.0	109.0	50.0	75.0	130.0	90.0	156.0	223.0
24	156.0	85.0	40.0	35.0	28.0	60.0	141.0	243.0	195.0	230.0	138.0	133.0
25	123.0	75.0	54.0	39.0	25.0	44.0	89.0	226.0	227.0	233.0	110.0	96.0
26	199.0	70.0	44.0	31.0	22.0	33.0	79.0	123.0	176.0	165.0	92.0	152.0
27	200.0	64.0	149.0	67.0	24.0	40.0	114.0	75.0	126.0	120.0	79.0	142.0
28	194.0	74.0	91.0	37.0	20.0	81.0	105.0	55.0	106.0	122.0	84.0	106.0
29	279.0	64.0	51.0	28.0	20.0	37.0	116.0	52.0	129.0	120.0	120.0	71.0
30	306.0	57.0	44.0	27.0	29.0	29.0	101.0	39.0	131.0	91.0	97.0	44.0
31	351.0		44.0	32.0	25.0	25.0		33.0		75.0	64.0	
TOTAL	7556.0	4521.0	2377.0	1465.0	982.0	1892.0	1418.0	2500.0	5028.0	3589.0	3341.0	2402.0
AVE.	244.1	154.0	76.7	47.3	33.3	61.0	47.3	80.6	167.6	115.8	107.8	80.1
ANN.AVE.												101.729
ANN.AVE.												
1	452.2	238.2	146.6	30.2	44.8	20.4	20.2	124.8	107.4	84.4	93.8	42.2
2	201.8	186.4	111.2	29.0	46.8	39.8	19.4	56.8	164.0	87.0	114.2	45.6
3	194.4	160.4	49.2	36.6	21.8	85.6	22.0	39.8	238.8	138.4	81.4	26.8
4	214.4	165.8	36.4	103.2	27.0	105.8	47.8	63.4	221.4	129.6	106.4	82.6
5	144.6	107.6	47.4	49.6	32.8	77.8	71.2	139.8	140.4	139.8	165.2	180.2
6	254.8	65.8	70.5	37.0	22.0	40.8	103.0	62.8	133.6	115.5	89.3	103.0
1	327.0	212.3	128.9	29.6	45.8	30.1	19.8	90.8	135.7	85.7	104.0	43.9
2	204.4	163.1	42.8	69.9	24.4	95.7	34.9	51.6	230.1	134.0	93.9	54.7
3	204.7	86.7	60.0	42.7	28.8	57.6	87.1	97.8	137.0	126.5	123.8	141.6

( Ellagawa : 1968 )

DAILY FLOW TABLE

Table

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	43.0	195.0	102.0	44.0	52.0	32.0	49.0	37.0	219.0	337.0	104.0	32.0	1
2	36.0	207.0	128.0	48.0	54.0	38.0	35.0	40.0	165.0	333.0	93.0	29.0	2
3	34.0	166.0	141.0	41.0	33.0	30.0	104.0	127.0	127.0	323.0	84.0	27.0	3
4	49.0	244.0	154.0	39.0	26.0	30.0	29.0	227.0	233.0	320.0	77.0	26.0	4
5	123.0	310.0	152.0	35.0	25.0	24.0	28.0	287.0	352.0	313.0	65.0	25.0	5
6	188.0	292.0	150.0	33.0	24.0	26.0	30.0	398.0	102.0	306.0	102.0	30.0	6
7	131.0	205.0	185.0	31.0	23.0	23.0	31.0	382.0	457.0	232.0	111.0	39.0	7
8	75.0	246.0	173.0	33.0	23.0	21.0	88.0	305.0	484.0	169.0	83.0	79.0	8
9	54.0	269.0	133.0	55.0	23.0	22.0	44.0	133.0	451.0	142.0	83.0	170.0	9
10	140.0	224.0	94.0	145.0	22.0	28.0	30.0	80.0	409.0	120.0	204.0	209.0	10
11	189.0	224.0	87.0	87.0	21.0	21.0	99.0	65.0	363.0	105.0	153.0	181.0	11
12	161.0	188.0	91.0	90.0	21.0	19.0	77.0	73.0	319.0	80.0	96.0	161.0	12
13	115.0	185.0	78.0	70.0	21.0	22.0	114.0	62.0	225.0	85.0	84.0	178.0	13
14	114.0	173.0	68.0	136.0	21.0	22.0	105.0	53.0	155.0	130.0	164.0	178.0	14
15	109.0	160.0	66.0	211.0	21.0	24.0	124.0	39.0	126.0	130.0	167.0	199.0	15
16	119.0	178.0	66.0	246.0	21.0	71.0	97.0	33.0	108.0	135.0	160.0	176.0	16
17	156.0	193.0	83.0	140.0	20.0	72.0	134.0	80.0	92.0	198.0	151.0	187.0	17
18	153.0	174.0	116.0	63.0	20.0	143.0	123.0	35.0	77.0	264.0	109.0	179.0	18
19	249.0	156.0	148.0	53.0	19.0	164.0	91.0	29.0	76.0	314.0	102.0	134.0	19
20	423.0	138.0	214.0	73.0	19.0	75.0	103.0	27.0	83.0	293.0	107.0	218.0	20
21	669.0	253.0	181.0	102.0	19.0	36.0	113.0	25.0	166.0	248.0	143.0	231.0	21
22	632.0	254.0	127.0	63.0	21.0	30.0	70.0	24.0	196.0	176.0	107.0	252.0	22
23	596.0	218.0	104.0	136.0	33.0	28.0	226.0	28.0	113.0	137.0	91.0	235.0	23
24	560.0	171.0	96.0	76.0	53.0	27.0	151.0	30.0	167.0	164.0	94.0	164.0	24
25	454.0	167.0	87.0	49.0	70.0	51.0	163.0	29.0	157.0	200.0	67.0	139.0	25
26	383.0	163.0	68.0	39.0	29.0	38.0	87.0	120.0	184.0	191.0	65.0	122.0	26
27	257.0	159.0	66.0	33.0	22.0	35.0	57.0	41.0	182.0	195.0	57.0	118.0	27
28	178.0	155.0	71.0	31.0	32.0	46.0	41.0	32.0	213.0	205.0	48.0	190.0	28
29	186.0	174.0	75.0	29.0	39.0	44.0	33.0	29.0	276.0	193.0	42.0	181.0	29
30	191.0	138.0	55.0	28.0	39.0	86.0	34.0	106.0	316.0	153.0	37.0	170.0	30
31	193.0		29.0	26.0		69.0		249.0		122.0	29.0		31
TOTAL	6960.0	5989.0	3388.0	2285.0	827.0	1421.0	2441.0	3202.0	6707.0	6323.0	3079.0	4259.0	TOTAL
AVE.	224.5	199.6	109.3	73.7	28.5	45.8	81.4	103.3	223.6	204.0	99.3	142.0	AVE.
ANN. AVE.													128.090 ANN. AVE.
1	57.0	224.4	135.4	41.4	38.0	35.6	35.2	139.0	219.2	325.2	84.6	27.8	1
2	117.6	247.2	147.0	59.4	23.0	24.0	44.6	259.6	403.4	193.8	116.6	105.4	2
3	137.6	188.0	78.0	118.8	21.0	21.6	103.8	58.4	237.6	108.0	132.8	179.4	3
4	220.0	167.8	123.4	115.0	19.8	105.0	109.6	40.8	97.2	240.8	125.8	178.8	4
5	582.2	212.6	119.0	85.2	39.2	34.4	144.6	27.2	159.8	185.0	100.4	204.2	5
6	231.3	157.8	60.7	31.0	30.5	53.0	50.4	96.2	234.2	176.5	46.3	156.2	6
1	87.3	235.8	141.2	50.4	30.5	29.8	39.9	199.3	311.3	259.5	100.6	66.6	1
2	178.8	177.9	101.7	116.9	20.4	63.3	106.7	49.6	162.4	174.4	129.3	179.1	2
3	390.8	185.2	87.2	55.6	35.3	44.5	97.5	64.8	197.0	180.4	70.9	180.2	3

( Ellagawa : 1969 )

Table DAILY FLOW TABLE

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	157.0	234.0	39.0	80.0	16.0	132.0	15.0	138.0	462.0	100.0	26.0	193.0
2	196.0	226.0	42.0	56.0	16.0	81.0	15.0	128.0	411.0	107.0	30.0	271.0
3	230.0	157.0	115.0	39.0	16.0	42.0	18.0	138.0	389.0	89.0	32.0	285.0
4	196.0	122.0	112.0	43.0	16.0	28.0	41.0	149.0	368.0	87.0	43.0	331.0
5	158.0	141.0	225.0	31.0	16.0	21.0	28.0	168.0	336.0	109.0	29.0	324.0
6	119.0	143.0	164.0	28.0	17.0	18.0	63.0	179.0	282.0	82.0	25.0	280.0
7	98.0	163.0	65.0	25.0	32.0	16.0	80.0	259.0	202.0	69.0	26.0	154.0
8	81.0	131.0	86.0	24.0	19.0	15.0	62.0	256.0	234.0	141.0	32.0	100.0
9	69.0	171.0	46.0	22.0	20.0	15.0	61.0	251.0	201.0	74.0	28.0	80.0
10	60.0	253.0	49.0	32.0	32.0	15.0	110.0	179.0	167.0	66.0	39.0	69.0
11	58.0	267.0	35.0	24.0	20.0	14.0	131.0	146.0	216.0	63.0	29.0	99.0
12	57.0	173.0	33.0	23.0	25.0	14.0	168.0	105.0	200.0	74.0	25.0	97.0
13	53.0	136.0	31.0	34.0	19.0	14.0	125.0	192.0	207.0	66.0	23.0	88.0
14	95.0	125.0	27.0	70.0	17.0	25.0	118.0	259.0	249.0	52.0	26.0	67.0
15	76.0	183.0	25.0	44.0	16.0	18.0	115.0	234.0	250.0	52.0	29.0	62.0
16	75.0	162.0	24.0	70.0	15.0	30.0	54.0	198.0	205.0	54.0	32.0	49.0
17	207.0	133.0	23.0	33.0	18.0	54.0	33.0	204.0	161.0	44.0	52.0	55.0
18	264.0	141.0	24.0	26.0	21.0	40.0	129.0	273.0	142.0	38.0	127.0	46.0
19	256.0	100.0	27.0	22.0	27.0	22.0	48.0	276.0	137.0	35.0	53.0	40.0
20	246.0	96.0	29.0	22.0	22.0	18.0	56.0	265.0	114.0	33.0	82.0	33.0
21	183.0	105.0	26.0	22.0	20.0	16.0	101.0	219.0	102.0	32.0	168.0	30.0
22	123.0	92.0	49.0	22.0	16.0	28.0	78.0	165.0	95.0	31.0	120.0	29.0
23	104.0	68.0	40.0	21.0	15.0	44.0	142.0	361.0	92.0	51.0	76.0	27.0
24	83.0	55.0	32.0	21.0	22.0	22.0	84.0	466.0	97.0	45.0	52.0	36.0
25	73.0	48.0	25.0	32.0	15.0	23.0	101.0	472.0	105.0	43.0	36.0	72.0
26	61.0	46.0	80.0	29.0	15.0	25.0	124.0	443.0	119.0	36.0	39.0	68.0
27	203.0	61.0	161.0	22.0	16.0	25.0	163.0	402.0	133.0	35.0	107.0	163.0
28	175.0	40.0	165.0	19.0	16.0	17.0	116.0	378.0	185.0	28.0	61.0	79.0
29	167.0	36.0	206.0	18.0	16.0	16.0	66.0	475.0	145.0	27.0	45.0	65.0
30	206.0	39.0	195.0	17.0	23.0	23.0	126.0	593.0	120.0	26.0	97.0	112.0
31	204.0		146.0	19.0	16.0	16.0		549.0		25.0	159.0	
TOTAL	4345.0	3867.0	2346.0	990.0	527.0	887.0	2571.0	8520.0	6126.0	1814.0	1748.0	3404.0
AVE.	140.2	128.9	75.7	31.9	18.8	28.6	85.7	274.8	204.2	58.5	56.4	113.5
ANN. AVE.												101.767
												AN. AVE
1	189.4	176.0	106.6	49.8	15.8	60.8	23.4	144.2	393.2	98.4	32.0	280.8
2	85.4	172.2	82.0	26.2	24.0	15.8	75.2	224.8	217.2	86.4	30.0	136.6
3	67.8	176.8	30.2	39.0	19.4	17.0	131.4	187.2	224.4	61.4	26.4	82.6
4	209.6	130.4	25.4	34.6	20.8	32.8	64.0	243.2	151.8	40.8	69.2	44.6
5	113.6	73.6	34.4	23.6	16.2	26.6	101.2	336.6	98.2	40.4	90.4	38.8
6	169.3	44.4	158.8	20.7	15.3	20.3	119.0	473.3	140.4	29.5	84.7	97.4
1	137.4	174.1	94.3	38.0	19.9	38.3	49.3	184.5	305.2	92.4	31.0	208.7
2	138.7	153.6	27.8	36.8	20.1	24.9	97.7	215.2	188.1	51.1	47.8	63.6
3	144.0	59.0	102.3	22.0	15.9	23.2	110.1	411.2	119.3	34.5	87.3	68.1

( Eilaguwa : 1970 )

DAILY FLOW TABLE

Table

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	71.0	139.0	252.0	255.0	33.0	28.0	263.0	216.0	108.0	274.0	119.0	34.0
2	92.0	104.0	273.0	198.0	31.0	46.0	72.0	156.0	106.0	243.0	193.0	38.0
3	44.0	83.0	204.0	200.0	29.0	32.0	47.0	127.0	87.0	99.0	248.0	35.0
4	34.0	68.0	205.0	163.0	30.0	28.0	45.0	134.0	120.0	75.0	248.0	33.0
5	29.0	38.0	184.0	114.0	34.0	24.0	57.0	186.0	211.0	61.0	224.0	33.0
6	162.0	55.0	180.0	92.0	35.0	20.0	158.0	117.0	204.0	58.0	219.0	40.0
7	168.0	50.0	142.0	78.0	62.0	19.0	144.0	88.0	128.0	53.0	247.0	91.0
8	127.0	55.0	141.0	72.0	32.0	19.0	88.0	66.0	125.0	47.0	256.0	178.0
9	124.0	57.0	100.0	77.0	38.0	23.0	65.0	63.0	128.0	92.0	273.0	164.0
10	105.0	42.0	92.0	83.0	78.0	23.0	105.0	80.0	219.0	179.0	256.0	70.0
11	107.0	36.0	71.0	75.0	48.0	71.0	84.0	59.0	201.0	163.0	190.0	76.0
12	102.0	73.0	57.0	111.0	38.0	35.0	90.0	55.0	163.0	166.0	137.0	210.0
13	132.0	74.0	49.0	107.0	35.0	39.0	172.0	55.0	151.0	103.0	125.0	114.0
14	95.0	87.0	42.0	96.0	53.0	99.0	107.0	49.0	110.0	157.0	106.0	182.0
15	173.0	99.0	41.0	60.0	33.0	64.0	162.0	44.0	91.0	210.0	96.0	161.0
16	177.0	157.0	131.0	46.0	27.0	53.0	75.0	59.0	96.0	239.0	100.0	116.0
17	233.0	230.0	159.0	41.0	25.0	37.0	87.0	34.0	81.0	238.0	189.0	207.0
18	259.0	265.0	212.0	58.0	135.0	27.0	102.0	100.0	79.0	190.0	105.0	106.0
19	231.0	109.0	197.0	83.0	63.0	22.0	94.0	177.0	250.0	142.0	107.0	75.0
20	393.0	74.0	131.0	102.0	42.0	22.0	69.0	235.0	293.0	163.0	81.0	121.0
21	393.0	120.0	204.0	66.0	74.0	29.0	219.0	168.0	239.0	115.0	72.0	202.0
22	366.0	114.0	143.0	73.0	166.0	20.0	249.0	91.0	218.0	254.0	66.0	103.0
23	262.0	73.0	110.0	58.0	147.0	20.0	216.0	69.0	228.0	256.0	62.0	74.0
24	111.0	66.0	74.0	213.0	165.0	22.0	147.0	61.0	132.0	227.0	58.0	103.0
25	139.0	56.0	75.0	236.0	56.0	26.0	184.0	58.0	91.0	195.0	48.0	107.0
26	95.0	51.0	82.0	131.0	69.0	71.0	96.0	192.0	89.0	116.0	45.0	80.0
27	173.0	103.0	103.0	73.0	41.0	46.0	133.0	163.0	69.0	87.0	42.0	53.0
28	210.0	115.0	244.0	56.0	33.0	37.0	93.0	116.0	92.0	95.0	42.0	45.0
29	240.0	140.0	229.0	46.0	208.0	208.0	69.0	88.0	62.0	80.0	41.0	44.0
30	224.0	116.0	246.0	40.0	276.0	276.0	341.0	139.0	63.0	80.0	36.0	42.0
31	199.0		291.0	36.0		331.0		158.0		127.0	32.0	
TOTAL	5260.0	2869.0	4664.0	3139.0	1652.0	1817.0	3833.0	3403.0	4214.0	4584.0	4072.0	2937.0
AVE.	169.7	95.6	150.5	101.3	59.0	58.6	127.8	109.8	140.5	147.9	131.4	97.9
ANN.AVE.												116.285
												AN.AVE
1	54.0	90.4	223.6	186.0	31.4	31.6	96.8	163.8	122.4	150.4	210.2	34.6
2	137.2	51.8	131.0	80.4	49.0	20.8	112.0	82.8	160.8	85.8	252.2	108.6
3	121.8	73.8	52.0	89.8	41.4	61.6	123.0	52.4	143.2	159.8	130.8	148.6
4	258.6	167.0	166.0	66.0	58.4	32.2	85.4	121.0	159.8	194.4	112.4	123.0
5	252.2	86.8	121.2	129.2	121.6	23.4	203.0	89.4	181.6	209.4	61.2	117.8
6	190.2	105.0	199.2	63.7	47.7	161.5	146.4	142.7	75.0	97.5	39.7	52.8
1	95.6	71.1	177.3	133.2	40.2	26.2	104.4	123.3	141.6	118.1	231.2	71.6
2	190.2	120.4	109.0	77.9	49.9	46.9	104.2	86.7	151.5	177.1	121.6	136.8
3	218.4	95.4	163.7	93.5	93.9	98.7	174.7	118.5	128.3	148.4	49.5	85.3

( Ellagawa : 1971 )

DAILY FLOW TABLE

Table

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	59.0	160.0	310.0	45.0	49.0	78.0	59.0	152.0	130.0	350.0	158.0	75.0
2	75.0	115.0	93.0	42.0	45.0	44.0	60.0	106.0	129.0	231.0	88.0	72.0
3	209.0	286.0	75.0	49.0	42.0	37.0	49.0	317.0	113.0	181.0	97.0	68.0
4	59.0	188.0	62.0	60.0	35.0	141.0	64.0	492.0	84.0	221.0	66.0	58.0
5	59.0	138.0	56.0	72.0	28.0	245.0	40.0	533.0	64.0	170.0	62.0	56.0
6	173.0	106.0	49.0	77.0	27.0	82.0	212.0	229.0	59.0	188.0	54.0	57.0
7	124.0	75.0	45.0	37.0	25.0	123.0	142.0	116.0	54.0	121.0	47.0	54.0
8	75.0	217.0	44.0	55.0	24.0	103.0	69.0	78.0	58.0	89.0	47.0	52.0
9	108.0	134.0	40.0	50.0	22.0	51.0	63.0	66.0	92.0	79.0	44.0	49.0
10	284.0	132.0	49.0	104.0	20.0	40.0	57.0	59.0	175.0	109.0	40.0	84.0
11	444.0	101.0	60.0	100.0	21.0	42.0	67.0	56.0	132.0	71.0	42.0	126.0
12	416.0	168.0	81.0	96.0	19.0	45.0	77.0	164.0	242.0	63.0	69.0	82.0
13	288.0	123.0	101.0	75.0	19.0	31.0	57.0	83.0	136.0	61.0	404.0	65.0
14	344.0	78.0	143.0	66.0	18.0	29.0	155.0	88.0	103.0	57.0	398.0	54.0
15	464.0	78.0	94.0	57.0	18.0	49.0	148.0	98.0	83.0	150.0	173.0	65.0
16	442.0	64.0	67.0	46.0	18.0	71.0	83.0	212.0	65.0	82.0	95.0	48.0
17	286.0	66.0	58.0	36.0	17.0	62.0	186.0	226.0	53.0	60.0	71.0	101.0
18	373.0	64.0	54.0	34.0	17.0	60.0	289.0	119.0	61.0	56.0	150.0	99.0
19	394.0	197.0	93.0	32.0	17.0	57.0	134.0	103.0	146.0	85.0	520.0	234.0
20	415.0	76.0	75.0	30.0	19.0	59.0	122.0	201.0	91.0	58.0	771.0	423.0
21	465.0	63.0	58.0	27.0	107.0	35.0	140.0	249.0	92.0	57.0	875.0	491.0
22	470.0	49.0	44.0	34.0	204.0	29.0	99.0	96.0	148.0	61.0	808.0	722.0
23	439.0	49.0	37.0	62.0	67.0	26.0	189.0	75.0	163.0	66.0	639.0	915.0
24	410.0	51.0	34.0	95.0	49.0	23.0	268.0	78.0	165.0	266.0	489.0	925.0
25	319.0	48.0	36.0	69.0	56.0	22.0	343.0	70.0	245.0	428.0	295.0	914.0
26	165.0	142.0	37.0	70.0	121.0	21.0	313.0	72.0	345.0	474.0	170.0	875.0
27	130.0	178.0	34.0	72.0	99.0	112.0	283.0	259.0	359.0	462.0	136.0	780.0
28	104.0	227.0	107.0	52.0	62.0	55.0	169.0	426.0	505.0	279.0	109.0	664.0
29	90.0	304.0	56.0	39.0	62.0	47.0	235.0	449.0	560.0	147.0	95.0	562.0
30	72.0	307.0	46.0	60.0	60.0	97.0	284.0	373.0	518.0	109.0	91.0	482.0
31	177.0	92.0	52.0	92.0	132.0	132.0	201.0	201.0	125.0	84.0	84.0	31
TOTAL	8068.0	3884.0	2190.0	1885.0	1265.0	2048.0	4456.0	5826.0	5170.0	4956.0	7187.0	9273.0
AVE.	260.3	132.8	70.6	60.8	45.2	66.1	148.5	187.9	172.3	159.9	231.8	309.1
ANN. AVE.												154.268 AN. AVE.

1	99.4	177.4	119.2	53.6	39.8	109.0	54.4	320.0	104.0	230.6	94.2	66.0
2	152.6	132.8	45.4	74.6	23.6	79.8	108.6	109.6	87.6	117.2	46.4	59.2
3	391.2	109.6	95.8	78.8	19.0	39.2	100.8	93.8	139.2	80.4	217.2	78.4
4	402.0	93.4	69.4	35.6	17.6	61.8	172.2	172.2	88.2	58.2	321.4	185.0
5	420.6	52.0	41.8	57.4	96.6	27.0	207.8	113.6	162.6	175.6	621.2	793.4
6	123.0	231.6	53.3	64.2	94.0	77.3	256.8	296.7	457.4	266.0	114.2	672.6
1	126.1	155.1	82.3	64.1	31.7	94.4	81.5	214.8	95.8	173.9	70.3	62.6
2	386.6	101.5	82.6	57.2	18.3	50.5	133.0	133.0	111.2	74.3	269.3	131.7
3	288.3	141.8	49.2	61.1	95.6	54.5	232.3	213.5	310.0	224.9	344.6	733.0

( Ellagawa : 1972 )

DAILY FLOW TABLE

Table

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	464.0	211.0	150.0	43.0	38.0	13.0	79.0	110.0	74.0	70.0	44.0	32.0
2	469.0	186.0	87.0	42.0	27.0	31.0	49.0	325.0	68.0	71.0	44.0	33.0
3	442.0	384.0	79.0	73.0	24.0	26.0	81.0	185.0	117.0	69.0	44.0	33.0
4	304.0	458.0	108.0	55.0	21.0	16.0	100.0	195.0	117.0	86.0	42.0	33.0
5	175.0	434.0	132.0	38.0	20.0	13.0	92.0	147.0	152.0	66.0	39.0	29.0
6	144.0	391.0	266.0	34.0	20.0	12.0	76.0	148.0	148.0	65.0	164.0	29.0
7	118.0	309.0	226.0	31.0	19.0	17.0	42.0	103.0	78.0	59.0	81.0	29.0
8	108.0	148.0	159.0	33.0	19.0	20.0	27.0	355.0	261.0	61.0	309.0	25.0
9	101.0	112.0	142.0	30.0	18.0	13.0	60.0	639.0	340.0	40.0	301.0	167.0
10	99.0	94.0	112.0	34.0	17.0	11.0	69.0	763.0	321.0	58.0	241.0	127.0
11	98.0	83.0	174.0	30.0	17.0	11.0	143.0	716.0	208.0	31.0	170.0	85.0
12	80.0	79.0	104.0	34.0	19.0	10.0	66.0	621.0	198.0	68.0	393.0	270.0
13	85.0	131.0	84.0	33.0	18.0	10.0	102.0	625.0	100.0	67.0	411.0	146.0
14	72.0	143.0	153.0	31.0	17.0	9.0	144.0	735.0	94.0	89.0	206.0	130.0
15	64.0	132.0	111.0	27.0	16.0	9.0	113.0	847.0	97.0	74.0	85.0	397.0
16	74.0	351.0	93.0	28.0	17.0	15.0	67.0	844.0	115.0	253.0	80.0	434.0
17	70.0	251.0	109.0	27.0	16.0	13.0	66.0	745.0	168.0	451.0	73.0	327.0
18	124.0	165.0	261.0	26.0	24.0	23.0	83.0	602.0	170.0	497.0	76.0	86.0
19	306.0	92.0	256.0	25.0	49.0	26.0	101.0	412.0	538.0	376.0	86.0	138.0
20	376.0	91.0	138.0	22.0	62.0	18.0	143.0	215.0	486.0	89.0	55.0	141.0
21	400.0	81.0	97.0	22.0	27.0	20.0	194.0	166.0	273.0	83.0	43.0	126.0
22	203.0	73.0	74.0	21.0	20.0	15.0	106.0	119.0	128.0	68.0	43.0	303.0
23	311.0	171.0	64.0	21.0	27.0	21.0	70.0	90.0	110.0	82.0	40.0	479.0
24	226.0	242.0	66.0	25.0	22.0	22.0	54.0	83.0	91.0	183.0	40.0	533.0
25	170.0	96.0	63.0	69.0	17.0	17.0	61.0	87.0	76.0	118.0	40.0	583.0
26	155.0	116.0	54.0	68.0	15.0	11.0	51.0	91.0	76.0	75.0	39.0	592.0
27	529.0	183.0	51.0	128.0	14.0	14.0	40.0	72.0	103.0	115.0	37.0	527.0
28	548.0	110.0	47.0	64.0	13.0	44.0	72.0	65.0	91.0	99.0	36.0	400.0
29	667.0	154.0	47.0	41.0	13.0	26.0	75.0	69.0	100.0	75.0	59.0	305.0
30	574.0	197.0	46.0	30.0	42.0	42.0	116.0	80.0	101.0	56.0	35.0	153.0
31	387.0		44.0	28.0	38.0	38.0	60.0	60.0	54.0	54.0	35.0	31
TOTAL	8043.0	5670.0	3597.0	1213.0	646.0	586.0	2541.0	10307.0	4956.0	3648.0	3371.0	6692.0
AVE.	259.5	189.0	116.0	39.1	22.3	18.9	84.7	332.5	155.2	117.7	108.7	223.1
ANN-AVE.												140.082
												AN-AVE
1	370.8	335.0	111.2	50.2	26.0	19.8	80.2	192.4	98.2	72.4	42.6	32.0
2	114.0	210.8	181.0	32.4	18.6	14.6	54.8	401.0	229.6	56.6	219.2	75.4
3	79.8	113.6	126.2	31.0	17.4	9.8	113.6	708.8	139.4	65.8	253.0	205.6
4	190.0	190.0	171.4	25.6	33.6	19.0	92.0	563.6	295.4	333.2	74.0	225.2
5	262.0	132.6	72.8	31.6	22.6	19.0	96.8	108.2	134.4	106.8	41.2	404.8
6	493.3	152.0	48.2	59.8	13.8	29.2	70.8	72.8	94.2	79.0	36.8	395.4
1	242.4	272.9	146.1	41.3	22.3	17.2	67.5	296.7	163.9	64.5	130.9	53.7
2	134.9	151.8	148.3	28.3	25.5	14.4	102.8	636.2	217.4	199.5	163.5	215.4
3	388.2	142.3	59.4	47.0	18.7	24.5	83.8	88.9	114.3	91.6	38.8	400.1



( Ellagawa : 1973 )

DAILY FLOW TABLE

Table

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	151.0	302.0	71.0	38.0	49.0	11.0	258.0	27.0	61.0	254.0	330.0	84.0
2	136.0	344.0	58.0	34.0	76.0	11.0	222.0	26.0	59.0	247.0	365.0	78.0
3	144.0	376.0	53.0	27.0	27.0	18.0	292.0	54.0	76.0	209.0	175.0	55.0
4	334.0	377.0	47.0	26.0	27.0	21.0	364.0	36.0	208.0	220.0	101.0	48.0
5	486.0	434.0	45.0	24.0	26.0	29.0	372.0	53.0	258.0	200.0	111.0	43.0
6	569.0	403.0	42.0	24.0	144.0	17.0	379.0	92.0	288.0	161.0	109.0	39.0
7	552.0	391.0	40.0	23.0	43.0	14.0	254.0	128.0	369.0	151.0	78.0	36.0
8	475.0	330.0	75.0	22.0	26.0	13.0	204.0	95.0	359.0	114.0	63.0	35.0
9	260.0	88.0	62.0	21.0	23.0	24.0	154.0	50.0	148.0	87.0	76.0	31.0
10	127.0	327.0	46.0	20.0	21.0	21.0	216.0	40.0	75.0	81.0	138.0	35.0
11	233.0	364.0	60.0	20.0	20.0	16.0	135.0	169.0	80.0	92.0	73.0	31.0
12	124.0	348.0	81.0	18.0	20.0	11.0	138.0	316.0	87.0	67.0	36.0	28.0
13	135.0	253.0	48.0	16.0	19.0	11.0	165.0	220.0	64.0	58.0	96.0	26.0
14	262.0	142.0	40.0	14.0	18.0	9.0	169.0	154.0	56.0	53.0	108.0	41.0
15	282.0	137.0	34.0	13.0	25.0	11.0	139.0	226.0	49.0	47.0	67.0	30.0
16	327.0	159.0	37.0	12.0	26.0	12.0	170.0	193.0	44.0	43.0	72.0	40.0
17	253.0	335.0	50.0	11.0	27.0	15.0	154.0	134.0	53.0	41.0	84.0	25.0
18	303.0	259.0	40.0	10.0	27.0	15.0	109.0	63.0	92.0	39.0	57.0	39.0
19	228.0	192.0	37.0	9.0	27.0	9.0	121.0	56.0	232.0	42.0	48.0	33.0
20	118.0	121.0	65.0	9.0	21.0	37.0	82.0	89.0	204.0	41.0	41.0	30.0
21	115.0	96.0	150.0	10.0	20.0	29.0	89.0	92.0	207.0	37.0	41.0	29.0
22	138.0	72.0	85.0	14.0	18.0	78.0	68.0	95.0	272.0	43.0	39.0	26.0
23	157.0	74.0	47.0	16.0	23.0	195.0	76.0	81.0	327.0	56.0	52.0	22.0
24	133.0	68.0	42.0	18.0	20.0	113.0	74.0	44.0	358.0	78.0	118.0	20.0
25	146.0	50.0	53.0	19.0	22.0	66.0	64.0	148.0	382.0	73.0	54.0	18.0
26	327.0	63.0	59.0	19.0	22.0	59.0	59.0	141.0	299.0	98.0	96.0	18.0
27	273.0	204.0	64.0	20.0	14.0	178.0	46.0	133.0	256.0	187.0	383.0	20.0
28	111.0	73.0	44.0	20.0	11.0	305.0	37.0	90.0	252.0	291.0	478.0	88.0
29	101.0	115.0	35.0	20.0	11.0	186.0	34.0	60.0	219.0	208.0	431.0	79.0
30	110.0	77.0	32.0	26.0	26.0	125.0	31.0	122.0	203.0	68.0	170.0	154.0
31	217.0		29.0	47.0		305.0		82.0		215.0	103.0	
TOTAL	7329.0	6354.0	1671.0	620.0	842.0	1950.0	4675.0	3299.0	5677.0	3601.0	4193.0	1281.0
AVE.	236.4	211.8	53.9	20.0	30.1	62.9	155.8	106.4	189.2	116.2	135.3	42.7
ANN.AVE.												113.677
												ANN.AVE
1	250.6	366.6	54.8	29.8	41.0	18.0	301.6	39.2	132.4	226.0	216.4	61.6
2	396.6	263.4	53.0	22.0	51.4	17.8	241.4	81.0	247.8	118.8	92.8	35.2
3	207.2	248.8	52.6	16.2	20.4	11.6	149.2	219.0	67.2	63.4	76.0	31.2
4	245.8	213.2	45.8	10.2	25.6	17.6	127.2	107.0	125.0	41.2	60.4	33.4
5	137.8	72.4	75.4	15.4	20.6	96.2	74.2	88.0	309.2	57.4	60.8	23.0
6	189.8	106.4	43.8	25.3	15.7	190.7	41.4	104.7	253.8	177.8	276.8	71.8
1	323.6	315.0	53.9	25.9	46.2	17.9	271.5	60.1	190.1	172.4	154.6	48.4
2	226.5	231.0	49.2	13.2	23.0	14.6	138.2	163.0	96.1	52.3	68.2	32.3
3	166.2	89.4	58.2	20.8	18.8	147.7	57.8	97.1	281.5	123.1	178.6	47.4

( Ellagawa : 1974 )

Table DAILY FLOW TABLE

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	211.0	233.0	110.0	145.0	16.0	226.0	94.0	298.0	142.0	198.0	398.0	50.0
2	180.0	131.0	154.0	72.0	15.0	106.0	80.0	119.0	90.0	141.0	218.0	61.0
3	89.0	90.0	137.0	58.0	17.0	143.0	140.0	92.0	113.0	115.0	166.0	56.0
4	57.0	83.0	120.0	50.0	17.0	87.0	210.0	85.0	113.0	172.0	144.0	52.0
5	56.0	287.0	99.0	41.0	-18.0	49.0	294.0	109.0	230.0	128.0	132.0	57.0
6	82.0	350.0	69.0	36.0	16.0	44.0	227.0	123.0	230.0	90.0	125.0	97.0
7	72.0	341.0	61.0	36.0	14.0	38.0	235.0	111.0	135.0	83.0	87.0	159.0
8	45.0	293.0	60.0	33.0	12.0	28.0	173.0	85.0	90.0	155.0	99.0	103.0
9	37.0	149.0	47.0	45.0	12.0	25.0	113.0	311.0	143.0	149.0	90.0	206.0
10	40.0	119.0	41.0	31.0	11.0	22.0	113.0	454.0	188.0	144.0	107.0	207.0
11	63.0	86.0	35.0	29.0	11.0	19.0	125.0	339.0	306.0	178.0	118.0	320.0
12	40.0	76.0	32.0	27.0	11.0	18.0	101.0	220.0	422.0	235.0	122.0	328.0
13	61.0	80.0	47.0	25.0	9.0	47.0	151.0	173.0	474.0	159.0	150.0	225.0
14	83.0	91.0	99.0	25.0	31.0	34.0	231.0	129.0	508.0	203.0	102.0	138.0
15	126.0	61.0	84.0	24.0	29.0	28.0	320.0	86.0	424.0	225.0	122.0	155.0
16	130.0	121.0	61.0	21.0	28.0	23.0	215.0	83.0	356.0	183.0	138.0	271.0
17	231.0	80.0	50.0	21.0	25.0	31.0	135.0	66.0	288.0	125.0	191.0	529.0
18	152.0	72.0	73.0	21.0	12.0	24.0	91.0	129.0	194.0	124.0	209.0	534.0
19	138.0	102.0	193.0	20.0	11.0	22.0	157.0	229.0	167.0	118.0	329.0	473.0
20	210.0	55.0	216.0	20.0	12.0	17.0	132.0	333.0	144.0	194.0	435.0	338.0
21	298.0	51.0	296.0	19.0	11.0	17.0	109.0	323.0	223.0	332.0	270.0	209.0
22	208.0	42.0	220.0	19.0	9.0	15.0	86.0	186.0	390.0	478.0	326.0	191.0
23	119.0	37.0	147.0	18.0	9.0	14.0	68.0	320.0	325.0	513.0	225.0	357.0
24	101.0	33.0	75.0	18.0	8.0	13.0	77.0	316.0	247.0	586.0	135.0	428.0
25	130.0	149.0	133.0	17.0	17.0	15.0	110.0	221.0	155.0	746.0	109.0	462.0
26	119.0	119.0	98.0	17.0	124.0	67.0	228.0	183.0	130.0	620.0	95.0	457.0
27	82.0	129.0	72.0	16.0	102.0	91.0	409.0	165.0	111.0	485.0	88.0	352.0
28	58.0	266.0	60.0	16.0	165.0	47.0	542.0	301.0	180.0	567.0	80.0	255.0
29	121.0	233.0	96.0	16.0	52.0	52.0	577.0	362.0	380.0	761.0	70.0	302.0
30	345.0	187.0	154.0	16.0	67.0	67.0	514.0	319.0	219.0	730.0	64.0	358.0
31	396.0		258.0	17.0		24.0		252.0		576.0	56.0	
TOTAL	4120.0	4148.0	3407.0	970.0	772.0	1453.0	6057.0	6522.0	7163.0	9511.0	5000.0	7740.0
AVE.	132.9	138.3	109.9	31.3	27.6	46.9	201.9	210.4	238.8	306.8	161.3	258.0
ANN. AVE.												155.789
ANN. AVE.												
1	126.6	164.8	124.0	73.4	16.6	122.2	163.6	140.6	146.8	150.4	211.6	55.2
2	55.2	248.4	55.6	36.2	13.0	31.4	172.2	216.8	157.2	124.2	101.6	134.4
3	74.6	79.2	61.4	26.0	18.2	29.2	185.6	189.4	426.8	200.0	122.8	232.2
4	172.2	88.0	118.6	20.6	17.6	23.4	146.0	168.0	229.8	148.8	260.4	429.0
5	171.2	62.4	174.2	18.2	10.8	14.8	90.0	273.2	268.0	531.0	213.0	331.4
6	186.8	186.8	123.0	16.3	130.3	58.0	454.0	263.7	204.0	623.2	75.5	344.8
1	90.9	206.6	89.8	54.8	14.8	76.8	167.9	178.7	152.0	137.3	156.6	104.8
2	123.4	83.6	90.0	23.3	17.9	26.3	165.8	178.7	328.3	174.4	191.6	331.1
3	179.7	124.5	146.3	17.2	55.6	38.4	272.0	268.0	236.0	581.3	138.0	338.1

( Ellagawa : 1975 )

DAILY FLOW TABLE

Table

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	488.0	42.0	24.0	65.0	21.0	20.0	109.0	147.0	111.0	100.0	80.0	450.0	
2	665.0	41.0	23.0	58.0	26.0	34.0	78.0	103.0	100.0	94.0	80.0	428.0	
3	847.0	36.0	21.0	119.0	69.0	75.0	208.0	125.0	104.0	87.0	49.0	205.0	
4	566.0	38.0	21.0	67.0	29.0	135.0	106.0	70.0	175.0	80.0	59.0	102.0	
5	354.0	33.0	74.0	51.0	67.0	251.0	95.0	51.0	330.0	74.0	52.0	83.0	
6	209.0	33.0	87.0	47.0	53.0	108.0	122.0	260.0	322.0	67.0	58.0	70.0	
7	155.0	33.0	106.0	40.0	45.0	196.0	74.0	915.0	214.0	62.0	137.0	62.0	
8	198.0	42.0	161.0	36.0	37.0	110.0	203.0	1065.0	183.0	57.0	191.0	47.0	
9	291.0	127.0	228.0	38.0	30.0	144.0	148.0	1052.0	158.0	57.0	143.0	43.0	
10	229.0	84.0	125.0	30.0	25.0	255.0	94.0	578.0	142.0	54.0	64.0	144.0	
11	177.0	57.0	118.0	29.0	21.0	134.0	83.0	449.0	255.0	52.0	155.0	47.0	
12	137.0	81.0	185.0	27.0	20.0	82.0	60.0	300.0	155.0	59.0	182.0	46.0	
13	108.0	89.0	217.0	25.0	19.0	61.0	88.0	136.0	159.0	107.0	310.0	40.0	
14	167.0	60.0	98.0	24.0	18.0	48.0	75.0	183.0	475.0	100.0	380.0	52.0	
15	185.0	48.0	63.0	23.0	18.0	37.0	78.0	129.0	419.0	72.0	362.0	60.0	
16	113.0	42.0	50.0	22.0	17.0	35.0	81.0	105.0	476.0	59.0	167.0	135.0	
17	96.0	38.0	84.0	22.0	27.0	33.0	84.0	84.0	515.0	108.0	110.0	321.0	
18	80.0	35.0	187.0	21.0	39.0	29.0	87.0	84.0	563.0	132.0	115.0	128.0	
19	73.0	33.0	126.0	24.0	22.0	26.0	90.0	139.0	717.0	73.0	166.0	104.0	
20	67.0	29.0	57.0	23.0	18.0	30.0	56.0	108.0	651.0	66.0	122.0	94.0	
21	64.0	27.0	46.0	29.0	16.0	35.0	78.0	265.0	554.0	57.0	78.0	81.0	
22	59.0	27.0	41.0	26.0	15.0	56.0	91.0	280.0	542.0	57.0	68.0	300.0	
23	56.0	35.0	38.0	24.0	16.0	76.0	72.0	328.0	412.0	92.0	63.0	386.0	
24	54.0	59.0	37.0	33.0	39.0	29.0	62.0	534.0	352.0	222.0	57.0	296.0	
25	50.0	39.0	36.0	46.0	25.0	61.0	101.0	767.0	234.0	119.0	59.0	514.0	
26	47.0	50.0	56.0	61.0	36.0	27.0	99.0	919.0	202.0	215.0	104.0	657.0	
27	52.0	34.0	48.0	43.0	46.0	24.0	144.0	591.0	158.0	101.0	106.0	448.0	
28	58.0	29.0	43.0	35.0	44.0	21.0	234.0	334.0	159.0	78.0	150.0	606.0	
29	90.0	27.0	101.0	27.0	22.0	22.0	154.0	214.0	131.0	89.0	76.0	261.0	
30	57.0	25.0	161.0	23.0	18.0	21.0	123.0	158.0	116.0	84.0	177.0	124.0	
31	52.0	81.0	81.0	21.0	20.0	20.0	134.0	134.0	66.0	66.0	315.0	31	
TOTAL	5844.0	1373.0	2753.0	1163.0	858.0	2235.0	3177.0	10607.0	9088.0	2818.0	4235.0	6232.0	TOTAL
AVE.	188.5	45.8	88.8	37.5	30.6	72.1	105.9	342.2	302.9	90.9	136.6	207.7	AVE.
ANN-AVE.													138.033 AN-AVE
1	564.0	38.0	32.6	73.2	42.4	103.0	119.2	99.2	164.6	87.0	64.0	253.6	1
2	216.4	63.8	141.4	37.2	38.0	162.6	128.2	774.0	203.8	59.2	118.6	52.8	2
3	154.8	67.0	136.2	25.6	19.2	72.4	76.8	233.4	232.8	94.0	277.8	49.0	3
4	85.8	35.4	102.8	22.4	24.6	30.6	79.6	104.0	584.4	87.4	136.0	156.4	4
5	56.6	37.4	39.6	31.6	22.2	51.4	80.8	434.8	418.8	109.4	65.0	315.4	5
6	59.3	33.0	81.7	35.3	42.0	22.5	150.8	331.7	153.2	105.5	154.7	419.2	6
1	400.2	50.9	87.0	55.2	40.2	132.8	123.7	436.6	184.2	73.1	91.3	153.2	1
2	120.3	51.2	119.5	24.0	21.9	51.5	78.2	171.7	438.6	90.7	205.9	102.7	2
3	58.1	35.2	62.5	33.6	29.6	35.6	115.8	411.3	286.0	107.3	113.9	367.3	3

( Ellagawa : 1976 )

DAILY FLOW TABLE

Table

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	119.0	407.0	111.0	72.0	28.0	16.0	101.0	165.0	86.0	72.0	52.0	77.0
2	85.0	429.0	96.0	71.0	25.0	13.0	191.0	74.0	73.0	106.0	46.0	57.0
3	100.0	509.0	88.0	52.0	21.0	12.0	193.0	57.0	54.0	60.0	44.0	54.0
4	142.0	337.0	81.0	50.0	20.0	12.0	106.0	42.0	51.0	86.0	40.0	50.0
5	99.0	464.0	165.0	38.0	22.0	23.0	38.0	33.0	43.0	96.0	39.0	41.0
6	214.0	328.0	94.0	36.0	19.0	18.0	90.0	33.0	49.0	64.0	38.0	41.0
7	337.0	314.0	111.0	35.0	21.0	16.0	141.0	29.0	42.0	55.0	32.0	37.0
8	260.0	430.0	207.0	34.0	48.0	14.0	213.0	27.0	36.0	50.0	29.0	32.0
9	208.0	442.0	115.0	40.0	34.0	16.0	110.0	26.0	31.0	45.0	27.0	30.0
10	217.0	459.0	78.0	47.0	19.0	10.0	101.0	24.0	31.0	42.0	25.0	22.0
11	184.0	479.0	78.0	47.0	10.0	20.0	133.0	23.0	29.0	53.0	23.0	30.0
12	121.0	488.0	71.0	43.0	113.0	21.0	126.0	30.0	27.0	39.0	23.0	33.0
13	82.0	443.0	67.0	37.0	38.0	15.0	121.0	57.0	30.0	36.0	22.0	50.0
14	91.0	420.0	62.0	33.0	20.0	13.0	104.0	99.0	29.0	46.0	23.0	64.0
15	79.0	426.0	57.0	64.0	53.0	12.0	76.0	76.0	29.0	40.0	28.0	88.0
16	95.0	478.0	270.0	41.0	54.0	13.0	101.0	48.0	22.0	34.0	49.0	54.0
17	145.0	483.0	352.0	120.0	30.0	9.0	69.0	34.0	23.0	39.0	55.0	46.0
18	81.0	533.0	328.0	102.0	25.0	16.0	66.0	27.0	33.0	58.0	36.0	53.0
19	167.0	425.0	131.0	43.0	23.0	30.0	84.0	24.0	22.0	86.0	59.0	53.0
20	118.0	358.0	106.0	40.0	22.0	13.0	60.0	21.0	22.0	88.0	72.0	64.0
21	87.0	325.0	94.0	34.0	18.0	22.0	154.0	20.0	22.0	95.0	73.0	48.0
22	193.0	323.0	124.0	32.0	20.0	19.0	87.0	396.0	21.0	63.0	77.0	42.0
23	501.0	410.0	132.0	31.0	19.0	13.0	79.0	445.0	46.0	69.0	164.0	33.0
24	648.0	477.0	108.0	29.0	15.0	67.0	132.0	539.0	55.0	315.0	450.0	24.0
25	705.0	454.0	119.0	29.0	15.0	38.0	152.0	422.0	76.0	400.0	454.0	24.0
26	644.0	440.0	56.0	28.0	16.0	58.0	119.0	144.0	154.0	318.0	270.0	18.0
27	499.0	232.0	53.0	24.0	15.0	25.0	22.0	80.0	187.0	222.0	142.0	26.0
28	557.0	230.0	58.0	23.0	17.0	28.0	53.0	74.0	134.0	136.0	112.0	40.0
29	597.0	188.0	106.0	22.0	16.0	93.0	287.0	117.0	73.0	122.0	102.0	26.0
30	575.0	159.0	65.0	22.0	22.0	75.0	312.0	98.0	61.0	74.0	95.0	22.0
31	468.0		170.0	26.0		92.0		119.0		82.0	124.0	
TOTAL	8389.0	12070.0	3753.0	1345.0	796.0	842.0	3702.0	3428.0	1585.0	3092.0	2825.0	1279.0
AVE.	270.6	402.3	121.1	43.4	27.4	27.2	123.4	110.6	52.8	99.7	91.1	42.6
ANN.AVE.												117.776
1	109.0	469.2	108.2	56.6	23.2	15.2	129.2	75.2	61.4	84.0	44.2	55.8
2	247.2	394.6	121.0	38.4	28.2	14.8	131.0	27.8	37.8	51.2	30.2	32.4
3	111.4	451.2	67.0	44.8	46.8	16.2	112.0	57.0	27.6	42.8	23.8	53.0
4	115.2	453.4	237.4	69.2	30.8	16.2	76.0	30.8	24.4	61.0	54.2	54.0
5	427.0	397.8	115.4	31.0	17.4	31.8	120.8	368.4	44.0	188.4	243.6	34.2
6	556.7	245.8	84.7	24.2	16.0	61.8	171.4	105.3	121.8	159.2	140.8	26.4
1	178.1	431.9	114.6	47.5	25.7	15.0	130.1	51.5	49.6	67.6	37.2	44.1
2	113.3	453.3	152.2	57.0	38.8	16.2	94.0	43.9	26.0	51.9	39.0	53.5
3	497.7	321.8	98.6	27.3	16.8	48.2	146.1	224.9	82.9	172.5	187.5	30.3

( Ellagawa : 1977 )

DAILY FLOW TABLE

Table

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	56.0	103.0	163.0	59.0	13.0	37.0	32.0	174.0	385.0	64.0	20.0	71.0	1
2	46.0	104.0	152.0	56.0	12.0	75.0	24.0	139.0	460.0	65.0	20.0	55.0	2
3	86.0	159.0	120.0	47.0	15.0	95.0	24.0	126.0	475.0	63.0	19.0	51.0	3
4	73.0	232.0	105.0	44.0	29.0	54.0	18.0	143.0	511.0	57.0	19.0	41.0	4
5	88.0	129.0	217.0	41.0	31.0	25.0	41.0	112.0	515.0	54.0	18.0	39.0	5
6	69.0	113.0	255.0	38.0	37.0	20.0	48.0	81.0	442.0	60.0	18.0	35.0	6
7	184.0	105.0	240.0	38.0	29.0	25.0	68.0	87.0	254.0	58.0	14.0	31.0	7
8	101.0	146.0	159.0	112.0	61.0	32.0	77.0	157.0	138.0	52.0	17.0	41.0	8
9	98.0	96.0	138.0	56.0	40.0	48.0	55.0	297.0	240.0	46.0	16.0	28.0	9
10	259.0	119.0	125.0	45.0	27.0	36.0	99.0	320.0	141.0	42.0	11.0	23.0	10
11	341.0	118.0	240.0	46.0	19.0	24.0	58.0	225.0	131.0	62.0	17.0	23.0	11
12	248.0	185.0	164.0	23.0	17.0	48.0	86.0	148.0	133.0	51.0	16.0	39.0	12
13	119.0	155.0	125.0	22.0	16.0	60.0	75.0	174.0	213.0	54.0	17.0	36.0	13
14	132.0	135.0	117.0	29.0	14.0	41.0	60.0	297.0	177.0	48.0	24.0	29.0	14
15	110.0	150.0	85.0	26.0	13.0	34.0	49.0	363.0	300.0	104.0	52.0	27.0	15
16	108.0	98.0	125.0	42.0	18.0	31.0	37.0	0.0	343.0	133.0	30.0	23.0	16
17	157.0	122.0	159.0	21.0	16.0	33.0	68.0	255.0	245.0	59.0	33.0	24.0	17
18	125.0	232.0	214.0	20.0	12.0	29.0	98.0	178.0	160.0	49.0	68.0	19.0	18
19	157.0	292.0	230.0	18.0	12.0	41.0	114.0	276.0	143.0	47.0	224.0	18.0	19
20	186.0	334.0	145.0	18.0	28.0	95.0	132.0	306.0	213.0	51.0	245.0	16.0	20
21	110.0	282.0	105.0	17.0	12.0	50.0	70.0	271.0	199.0	58.0	232.0	18.0	21
22	87.0	165.0	161.0	16.0	10.0	33.0	62.0	257.0	221.0	62.0	114.0	19.0	22
23	88.0	172.0	199.0	16.0	10.0	53.0	132.0	157.0	165.0	51.0	90.0	25.0	23
24	63.0	114.0	172.0	15.0	30.0	31.0	90.0	123.0	117.0	39.0	76.0	68.0	24
25	56.0	93.0	141.0	15.0	35.0	20.0	92.0	297.0	188.0	35.0	66.0	32.0	25
26	83.0	154.0	183.0	15.0	32.0	18.0	74.0	311.0	89.0	46.0	90.0	54.0	26
27	80.0	105.0	125.0	15.0	27.0	25.0	78.0	200.0	76.0	32.0	61.0	136.0	27
28	76.0	91.0	99.0	15.0	17.0	27.0	237.0	121.0	76.0	27.0	46.0	92.0	28
29	126.0	100.0	78.0	14.0	17.0	47.0	165.0	179.0	74.0	25.0	42.0	66.0	29
30	151.0	164.0	71.0	13.0	53.0	74.0	74.0	251.0	68.0	22.0	33.0	109.0	30
31	97.0		65.0	13.0	59.0			282.0		20.0	54.0		31
TOTAL	3750.0	4567.0	4877.0	966.0	632.0	1299.0	2337.0	6307.0	6893.0	1637.0	1802.0	1288.0	TOTAL
AVE.	121.0	152.2	150.9	31.2	22.6	41.9	77.9	203.5	229.8	52.8	58.1	42.9	AVE.
ANN.AVE.													99.055 AN.AVE
1	71.8	145.4	151.4	49.4	20.0	57.2	27.8	138.8	469.4	60.6	19.2	51.4	1
2	138.2	115.8	183.4	57.8	38.8	32.2	69.4	188.4	243.0	51.6	15.2	31.6	2
3	190.0	148.6	146.2	29.2	15.8	41.4	65.6	241.4	190.8	63.8	25.2	30.8	3
4	146.6	215.6	174.6	23.8	17.2	45.8	89.8	203.0	220.8	67.8	120.0	20.0	4
5	80.8	165.2	155.6	16.0	19.4	37.4	89.2	221.0	178.0	49.2	115.6	32.4	5
6	102.2	132.8	103.5	14.2	25.3	38.2	135.6	224.0	76.6	28.7	54.3	91.4	6
1	105.0	130.6	167.4	53.6	29.4	44.7	48.6	163.6	356.2	56.1	17.2	41.5	1
2	168.3	182.1	160.4	26.5	16.5	43.6	77.7	222.2	205.8	65.8	72.6	25.4	2
3	92.5	143.0	127.2	15.0	21.6	37.8	107.4	222.6	127.3	38.0	82.2	61.9	3

( Ellagawa : 1978 )

DAILY FLOW TABLE

Table

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	149.0	82.0	79.0	131.0	27.0	30.0	46.0	91.0	199.0	211.0	62.0	64.0
2	143.0	195.0	86.0	70.0	27.0	47.0	45.0	126.0	191.0	154.0	61.0	57.0
3	89.0	316.0	67.0	59.0	43.0	67.0	27.0	123.0	161.0	113.0	68.0	54.0
4	64.0	248.0	58.0	64.0	59.0	75.0	17.0	171.0	124.0	94.0	58.0	47.0
5	70.0	237.0	60.0	83.0	91.0	105.0	44.0	221.0	109.0	90.0	56.0	44.0
6	71.0	133.0	76.0	93.0	123.0	107.0	78.0	218.0	184.0	96.0	62.0	41.0
7	107.0	112.0	88.0	56.0	117.0	134.0	51.0	145.0	209.0	146.0	72.0	37.0
8	115.0	162.0	175.0	47.0	119.0	91.0	35.0	143.0	152.0	139.0	89.0	35.0
9	117.0	226.0	169.0	41.0	90.0	68.0	47.0	124.0	174.0	92.0	99.0	46.0
10	105.0	158.0	99.0	36.0	55.0	54.0	44.0	144.0	170.0	72.0	118.0	57.0
11	203.0	111.0	203.0	34.0	46.0	38.0	63.0	277.0	148.0	95.0	130.0	56.0
12	182.0	89.0	228.0	32.0	39.0	31.0	49.0	364.0	128.0	102.0	100.0	55.0
13	148.0	78.0	155.0	83.0	32.0	27.0	37.0	640.0	136.0	76.0	92.0	63.0
14	122.0	83.0	100.0	150.0	30.0	25.0	38.0	1092.0	109.0	82.0	85.0	56.0
15	231.0	189.0	76.0	62.0	26.0	23.0	24.0	1306.0	97.0	68.0	92.0	50.0
16	223.0	343.0	74.0	47.0	24.0	30.0	17.0	1250.0	97.0	117.0	82.0	39.0
17	136.0	373.0	81.0	38.0	20.0	23.0	15.0	1082.0	110.0	135.0	75.0	32.0
18	184.0	211.0	72.0	32.0	18.0	17.0	12.0	920.0	95.0	88.0	63.0	28.0
19	271.0	109.0	62.0	31.0	16.0	16.0	12.0	747.0	81.0	78.0	63.0	26.0
20	231.0	91.0	81.0	36.0	154.0	14.0	23.0	601.0	72.0	80.0	101.0	38.0
21	314.0	73.0	118.0	29.0	91.0	14.0	15.0	446.0	64.0	82.0	131.0	40.0
22	409.0	68.0	128.0	25.0	70.0	14.0	35.0	270.0	62.0	69.0	125.0	29.0
23	509.0	69.0	117.0	24.0	43.0	17.0	59.0	186.0	58.0	146.0	146.0	28.0
24	589.0	76.0	127.0	89.0	44.0	20.0	89.0	168.0	56.0	120.0	200.0	43.0
25	591.0	128.0	128.0	139.0	46.0	48.0	70.0	163.0	53.0	213.0	182.0	41.0
26	495.0	91.0	76.0	107.0	45.0	35.0	58.0	168.0	54.0	238.0	121.0	166.0
27	310.0	48.0	64.0	90.0	34.0	39.0	60.0	211.0	61.0	215.0	170.0	337.0
28	150.0	165.0	68.0	60.0	27.0	31.0	64.0	247.0	59.0	160.0	213.0	489.0
29	122.0	152.0	71.0	48.0	27.0	27.0	127.0	239.0	60.0	103.0	128.0	491.0
30	163.0	105.0	57.0	39.0	39.0	22.0	143.0	201.0	158.0	83.0	91.0	357.0
31	119.0	46.0	46.0	34.0	36.0	36.0	208.0	208.0	67.0	74.0	74.0	31
TOTAL	6732.0	4521.0	3059.0	1909.0	1622.0	1325.0	1444.0	12292.0	3431.0	3566.0	3209.0	2946.0
AVE.	217.2	150.7	99.6	61.6	57.9	42.7	48.1	396.5	114.4	115.0	103.5	98.2
ANN.AVE.												126.263
												AN.AVE.
1	103.0	215.6	70.0	81.4	49.4	64.8	35.8	146.4	156.8	132.4	61.0	53.2
2	103.0	158.2	121.4	54.6	100.8	90.8	51.0	154.8	177.8	107.0	88.0	43.2
3	177.2	110.0	152.4	72.2	34.6	28.8	42.2	735.8	123.6	84.6	99.8	56.0
4	209.0	225.4	74.0	36.8	59.6	20.0	15.8	920.0	91.0	101.6	76.8	32.6
5	482.4	82.8	123.6	61.2	58.8	22.6	53.6	246.6	58.6	114.4	156.8	36.2
6	226.5	112.2	63.7	63.0	35.3	31.7	90.4	212.3	78.4	144.3	132.8	388.0
1	103.0	186.9	95.7	68.0	75.1	77.8	43.4	150.6	167.3	119.7	74.5	48.2
2	193.1	167.7	113.2	54.5	47.1	24.4	29.0	827.9	107.3	93.1	88.3	44.3
3	342.8	97.5	90.9	62.2	50.0	27.5	72.0	227.9	68.5	130.7	143.7	202.1

( Ellagawa : 1979 )

DAILY FLOW TABLE

Table

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	381.0	144.0	79.0	59.0	19.0	17.0	27.0	29.0	39.0	90.0	60.0	25.0
2	479.0	218.0	73.0	51.0	15.0	15.0	16.0	32.0	52.0	70.0	62.0	61.0
3	459.0	347.0	65.0	37.0	14.0	16.0	20.0	70.0	49.0	62.0	61.0	68.0
4	270.0	499.0	66.0	34.0	13.0	19.0	53.0	45.0	27.0	54.0	55.0	81.0
5	110.0	542.0	76.0	31.0	12.0	34.0	23.0	32.0	25.0	47.0	49.0	54.0
6	81.0	452.0	58.0	27.0	12.0	21.0	14.0	38.0	23.0	75.0	45.0	100.0
7	68.0	348.0	52.0	28.0	17.0	16.0	21.0	20.0	21.0	151.0	46.0	63.0
8	61.0	197.0	53.0	42.0	18.0	17.0	11.0	20.0	18.0	191.0	38.0	34.0
9	58.0	143.0	85.0	37.0	27.0	39.0	18.0	54.0	17.0	198.0	46.0	38.0
10	64.0	112.0	82.0	30.0	38.0	33.0	25.0	233.0	17.0	228.0	43.0	58.0
11	62.0	105.0	63.0	23.0	51.0	34.0	37.0	328.0	32.0	202.0	34.0	76.0
12	58.0	213.0	64.0	20.0	46.0	25.0	31.0	338.0	128.0	245.0	29.0	192.0
13	49.0	240.0	77.0	18.0	88.0	23.0	51.0	394.0	281.0	289.0	25.0	201.0
14	42.0	137.0	67.0	18.0	40.0	15.0	49.0	483.0	444.0	278.0	22.0	192.0
15	65.0	93.0	74.0	31.0	31.0	12.0	45.0	478.0	540.0	159.0	20.0	291.0
16	86.0	124.0	94.0	29.0	25.0	10.0	44.0	334.0	486.0	107.0	18.0	319.0
17	75.0	170.0	71.0	25.0	18.0	9.0	110.0	140.0	322.0	91.0	19.0	247.0
18	85.0	152.0	56.0	19.0	45.0	8.0	145.0	118.0	140.0	89.0	19.0	142.0
19	111.0	85.0	51.0	17.0	40.0	10.0	105.0	78.0	80.0	76.0	19.0	137.0
20	84.0	74.0	60.0	16.0	55.0	10.0	236.0	62.0	63.0	64.0	21.0	201.0
21	138.0	64.0	50.0	17.0	76.0	9.0	199.0	53.0	60.0	58.0	22.0	215.0
22	185.0	72.0	72.0	18.0	41.0	8.0	77.0	49.0	59.0	58.0	52.0	276.0
23	160.0	78.0	44.0	16.0	48.0	15.0	68.0	47.0	78.0	61.0	44.0	382.0
24	242.0	320.0	80.0	15.0	45.0	26.0	45.0	42.0	84.0	188.0	25.0	424.0
25	225.0	581.0	77.0	17.0	54.0	17.0	42.0	44.0	80.0	236.0	18.0	459.0
26	177.0	630.0	55.0	19.0	62.0	32.0	50.0	96.0	143.0	127.0	16.0	508.0
27	314.0	521.0	50.0	17.0	38.0	16.0	48.0	47.0	167.0	78.0	15.0	598.0
28	337.0	325.0	53.0	28.0	25.0	13.0	34.0	50.0	168.0	66.0	14.0	666.0
29	304.0	128.0	119.0	31.0	27.0	11.0	31.0	37.0	144.0	64.0	14.0	650.0
30	326.0	76.0	124.0	25.0	25.0	9.0	27.0	27.0	100.0	65.0	13.0	538.0
31	252.0		66.0	33.0		24.0		25.0		53.0	14.0	
TOTAL	5408.0	7191.0	2166.0	828.0	1013.0	563.0	1659.0	3783.0	3887.0	3820.0	978.0	7296.0
AVE.	174.5	239.7	69.9	26.7	36.2	18.2	55.3	122.0	129.6	123.2	31.5	243.2
ANN.AVE.												105.732
												AN.AVE
1	339.8	350.0	71.8	42.4	14.6	20.2	21.0	41.6	38.4	64.6	57.4	57.8
2	66.4	250.4	68.0	32.8	22.4	25.2	16.0	73.0	19.2	168.6	43.6	58.6
3	55.2	157.6	69.0	22.0	51.2	21.8	42.6	40.2	285.0	234.6	26.0	190.4
4	88.2	121.0	66.4	21.2	36.6	9.4	128.0	146.4	218.2	85.4	19.2	209.2
5	190.0	223.0	64.6	16.6	52.8	15.0	86.2	47.0	72.2	120.2	32.2	351.2
6	285.0	336.2	77.8	25.5	41.7	17.5	38.0	37.0	144.4	75.5	14.3	592.0
1	203.1	300.2	69.9	37.6	18.5	22.7	18.5	57.3	28.8	116.6	50.5	58.2
2	71.7	139.3	67.7	21.6	43.9	15.6	85.3	275.3	251.6	160.0	22.6	199.8
3	241.8	279.6	71.8	21.5	48.6	16.4	62.1	41.5	108.3	95.8	22.5	471.6

( Ellagawa : 1980 )

DAILY FLOW TABLE

Table

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	501.0	547.0	356.0	71.0	17.0	12.0	61.0	115.0	525.0	88.0	48.0	64.0
2	335.0	448.0	300.0	48.0	17.0	15.0	33.0	175.0	630.0	70.0	42.0	56.0
3	169.0	182.0	173.0	43.0	17.0	15.0	35.0	179.0	624.0	54.0	38.0	55.0
4	120.0	161.0	178.0	38.0	17.0	12.0	62.0	102.0	533.0	44.0	36.0	51.0
5	100.0	142.0	346.0	36.0	17.0	12.0	105.0	118.0	292.0	39.0	33.0	44.0
6	86.0	126.0	252.0	34.0	19.0	12.0	60.0	118.0	128.0	36.0	32.0	49.0
7	78.0	119.0	180.0	32.0	17.0	17.0	104.0	80.0	88.0	36.0	35.0	71.0
8	71.0	136.0	272.0	31.0	16.0	20.0	196.0	110.0	87.0	35.0	37.0	55.0
9	69.0	108.0	194.0	30.0	15.0	17.0	86.0	120.0	75.0	53.0	32.0	45.0
10	116.0	118.0	179.0	30.0	15.0	12.0	100.0	93.0	61.0	61.0	32.0	43.0
11	111.0	212.0	142.0	34.0	14.0	20.0	61.0	68.0	55.0	147.0	30.0	32.0
12	83.0	177.0	134.0	32.0	14.0	28.0	51.0	60.0	57.0	180.0	34.0	31.0
13	235.0	219.0	108.0	31.0	14.0	21.0	39.0	71.0	59.0	407.0	61.0	30.0
14	302.0	163.0	86.0	51.0	13.0	15.0	40.0	79.0	49.0	477.0	84.0	29.0
15	266.0	315.0	89.0	47.0	14.0	13.0	48.0	57.0	45.0	416.0	127.0	29.0
16	153.0	207.0	91.0	34.0	58.0	32.0	98.0	60.0	53.0	262.0	269.0	29.0
17	183.0	139.0	77.0	28.0	33.0	23.0	104.0	52.0	221.0	221.0	182.0	27.0
18	255.0	378.0	93.0	26.0	21.0	30.0	217.0	55.0	43.0	143.0	225.0	23.0
19	197.0	405.0	82.0	25.0	17.0	26.0	116.0	45.0	43.0	124.0	351.0	22.0
20	246.0	428.0	66.0	24.0	17.0	39.0	75.0	77.0	50.0	109.0	201.0	21.0
21	168.0	363.0	101.0	23.0	15.0	25.0	126.0	54.0	91.0	91.0	180.0	24.0
22	144.0	177.0	169.0	22.0	13.0	16.0	104.0	40.0	123.0	89.0	115.0	22.0
23	304.0	202.0	108.0	22.0	13.0	13.0	78.0	35.0	85.0	80.0	86.0	43.0
24	385.0	129.0	70.0	21.0	13.0	18.0	32.0	32.0	58.0	110.0	71.0	34.0
25	251.0	125.0	72.0	21.0	12.0	21.0	67.0	33.0	63.0	129.0	83.0	45.0
26	174.0	172.0	55.0	19.0	12.0	32.0	134.0	31.0	188.0	88.0	111.0	32.0
27	179.0	126.0	47.0	19.0	20.0	20.0	234.0	29.0	266.0	67.0	104.0	206.0
28	200.0	267.0	54.0	20.0	12.0	13.0	112.0	99.0	188.0	57.0	76.0	161.0
29	251.0	374.0	62.0	20.0	12.0	12.0	126.0	167.0	105.0	57.0	79.0	184.0
30	413.0	281.0	68.0	19.0	17.0	17.0	219.0	205.0	78.0	77.0	103.0	142.0
31	530.0	67.0	67.0	18.0	47.0	305.0	305.0	305.0	56.0	97.0	97.0	31
TOTAL	6675.0	6946.0	4260.0	949.0	496.0	625.0	2948.0	2884.0	4794.0	3903.0	3035.0	1990.0
AVE.	215.3	231.5	137.4	30.6	17.1	20.2	98.3	92.4	159.8	125.9	97.9	66.3
ANN.AVE.												107.983
												AN.AVE
1	245.0	296.0	270.6	47.2	17.0	13.2	59.2	137.8	520.8	59.0	39.4	54.0
2	84.0	121.4	215.4	31.4	16.4	15.6	109.2	104.2	87.8	44.2	33.8	52.6
3	199.4	217.2	109.6	39.0	13.8	19.4	47.8	67.0	53.0	325.4	67.2	30.2
4	206.8	311.4	81.8	27.4	29.2	30.0	122.0	57.8	48.2	171.8	245.6	24.4
5	250.4	199.2	104.0	21.8	13.2	18.6	86.4	38.8	84.0	99.8	107.0	33.6
6	291.2	244.0	58.8	19.2	12.0	23.5	165.0	193.3	165.0	67.0	95.0	203.2
1	164.5	208.7	243.0	39.3	16.7	14.4	84.2	121.0	304.3	51.6	36.6	53.3
2	203.1	264.3	95.7	33.2	21.5	24.7	84.9	62.4	50.6	248.6	156.4	27.3
3	272.6	221.6	79.4	20.4	12.7	21.3	125.7	93.6	124.5	81.9	100.5	118.4



( Ellegawa : 1981 )

DAILY FLOW TABLE

Table

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	339.0	75.0	89.0	93.0	22.0	38.0	128.0	112.0	195.0	52.0	85.0	56.0
2	534.0	78.0	79.0	147.0	21.0	30.0	107.0	108.0	124.0	49.0	76.0	44.0
3	470.0	74.0	68.0	132.0	20.0	28.0	51.0	103.0	87.0	46.0	63.0	40.0
4	240.0	89.0	60.0	430.0	19.0	30.0	60.0	83.0	72.0	44.0	55.0	54.0
5	108.0	75.0	58.0	406.0	20.0	23.0	77.0	82.0	60.0	41.0	48.0	107.0
6	89.0	129.0	66.0	155.0	32.0	18.0	72.0	114.0	52.0	42.0	44.0	72.0
7	92.0	274.0	64.0	83.0	50.0	22.0	57.0	110.0	56.0	48.0	42.0	158.0
8	81.0	200.0	84.0	68.0	35.0	30.0	67.0	88.0	114.0	50.0	39.0	94.0
9	65.0	195.0	64.0	58.0	29.0	22.0	223.0	59.0	160.0	58.0	40.0	113.0
10	116.0	189.0	47.0	52.0	32.0	24.0	116.0	58.0	252.0	43.0	46.0	327.0
11	200.0	323.0	46.0	60.0	47.0	31.0	63.0	114.0	261.0	48.0	40.0	275.0
12	174.0	259.0	44.0	49.0	68.0	23.0	73.0	172.0	375.0	187.0	36.0	438.0
13	164.0	193.0	72.0	41.0	86.0	17.0	136.0	252.0	435.0	120.0	36.0	453.0
14	324.0	119.0	81.0	38.0	56.0	20.0	168.0	102.0	470.0	73.0	32.0	339.0
15	286.0	132.0	81.0	36.0	35.0	17.0	101.0	72.0	530.0	55.0	33.0	222.0
16	278.0	274.0	54.0	62.0	26.0	13.0	66.0	70.0	561.0	61.0	30.0	262.0
17	116.0	339.0	49.0	47.0	22.0	13.0	54.0	54.0	614.0	102.0	30.0	523.0
18	107.0	289.0	95.0	38.0	20.0	20.0	60.0	78.0	679.0	59.0	55.0	750.0
19	78.0	278.0	79.0	33.0	18.0	33.0	70.0	132.0	662.0	49.0	49.0	779.0
20	68.0	240.0	139.0	38.0	17.0	34.0	60.0	32.0	522.0	123.0	39.0	642.0
21	55.0	186.0	237.0	35.0	17.0	29.0	85.0	58.0	242.0	382.0	48.0	452.0
22	52.0	193.0	130.0	30.0	16.0	24.0	53.0	53.0	136.0	219.0	87.0	247.0
23	47.0	119.0	65.0	28.0	15.0	28.0	55.0	49.0	104.0	178.0	175.0	156.0
24	55.0	104.0	53.0	28.0	14.0	41.0	77.0	119.0	104.0	104.0	81.0	125.0
25	45.0	236.0	55.0	27.0	14.0	44.0	75.0	184.0	84.0	75.0	64.0	100.0
26	59.0	147.0	103.0	25.0	14.0	35.0	102.0	127.0	78.0	63.0	51.0	91.0
27	72.0	248.0	124.0	23.0	24.0	40.0	69.0	154.0	88.0	112.0	44.0	77.0
28	81.0	147.0	174.0	23.0	52.0	36.0	59.0	196.0	69.0	116.0	48.0	68.0
29	73.0	105.0	84.0	22.0	52.0	35.0	95.0	490.0	62.0	175.0	57.0	61.0
30	76.0	103.0	59.0	25.0	30.0	88.0	102.0	386.0	59.0	195.0	140.0	56.0
31	76.0		55.0	24.0	124.0			281.0		112.0	76.0	
TOTAL	4621.0	5432.0	2559.0	2356.0	841.0	1010.0	2582.0	4139.0	7307.0	3081.0	1790.0	7181.0
AVE.	149.1	181.1	82.5	76.0	30.0	32.6	86.1	133.5	243.6	99.4	57.7	239.4
ANN. AVE.												117.532 AN. AVE.
1	338.4	78.2	70.8	241.6	20.4	29.8	84.6	97.6	107.6	46.4	65.6	60.2
2	88.6	197.4	65.0	83.2	35.6	23.2	107.0	85.8	126.8	48.2	42.2	152.8
3	229.6	209.2	64.8	44.6	58.4	21.6	108.2	142.4	414.2	96.6	35.4	345.4
4	129.4	284.0	83.2	43.6	20.6	22.6	62.0	83.2	607.6	78.8	40.6	591.2
5	52.8	167.6	108.0	29.6	15.2	33.2	69.2	92.0	134.0	191.6	91.0	216.0
6	71.2	150.0	100.0	23.7	30.0	59.7	85.4	272.3	71.2	128.8	69.3	70.6
1	213.5	137.8	67.9	162.4	28.0	26.5	95.8	91.7	117.2	47.3	53.9	106.5
2	179.5	246.5	74.0	44.2	39.5	22.1	85.1	112.8	510.9	87.7	38.0	468.3
3	62.8	158.8	103.6	26.4	20.8	47.6	77.3	190.4	102.6	157.4	79.2	143.3

( Ellagawa : 1982 )

DAILY FLOW TABLE

Table

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54.0	83.0	450.0	37.0	16.0	12.0	54.0	348.0	572.0	124.0	192.0	34.0
2	51.0	308.0	237.0	32.0	16.0	17.0	70.0	452.0	672.0	110.0	159.0	34.0
3	48.0	463.0	126.0	35.0	16.0	35.0	25.0	272.0	-	105.0	114.0	35.0
4	54.0	559.0	395.0	64.0	30.0	37.0	27.0	109.0	-	120.0	88.0	34.0
5	143.0	557.0	262.0	48.0	28.0	55.0	26.0	79.0	-	124.0	83.0	32.0
6	177.0	322.0	112.0	149.0	14.0	28.0	34.0	67.0	-	130.0	109.0	31.0
7	80.0	122.0	82.0	62.0	17.0	24.0	28.0	56.0	-	170.0	474.0	30.0
8	57.0	93.0	67.0	42.0	16.0	38.0	29.0	86.0	-	231.0	667.0	30.0
9	48.0	93.0	59.0	35.0	15.0	31.0	44.0	88.0	-	376.0	683.0	28.0
10	35.0	129.0	54.0	32.0	17.0	56.0	31.0	79.0	-	400.0	540.0	27.0
11	41.0	269.0	50.0	31.0	18.0	34.0	28.0	60.0	-	283.0	186.0	26.0
12	38.0	379.0	47.0	32.0	16.0	21.0	82.0	65.0	-	194.0	121.0	24.0
13	36.0	364.0	44.0	31.0	16.0	29.0	165.0	62.0	-	166.0	107.0	33.0
14	49.0	152.0	41.0	33.0	13.0	34.0	222.0	60.0	575.0	137.0	121.0	92.0
15	44.0	321.0	68.0	25.0	13.0	44.0	13.0	87.0	307.0	138.0	111.0	43.0
16	61.0	587.0	122.0	24.0	13.0	18.0	109.0	93.0	222.0	144.0	85.0	46.0
17	192.0	577.0	80.0	23.0	16.0	16.0	170.0	123.0	187.0	308.0	77.0	47.0
18	426.0	468.0	71.0	22.0	13.0	15.0	94.0	177.0	154.0	317.0	73.0	39.0
19	227.0	198.0	57.0	21.0	13.0	25.0	140.0	241.0	158.0	262.0	66.0	60.0
20	144.0	112.0	85.0	21.0	12.0	22.0	169.0	235.0	151.0	278.0	60.0	121.0
21	80.0	89.0	58.0	20.0	12.0	41.0	106.0	140.0	164.0	253.0	57.0	60.0
22	70.0	74.0	48.0	19.0	12.0	230.0	101.0	222.0	263.0	173.0	52.0	46.0
23	59.0	68.0	43.0	19.0	12.0	132.0	128.0	322.0	327.0	125.0	48.0	37.0
24	64.0	63.0	45.0	18.0	13.0	81.0	73.0	181.0	278.0	105.0	46.0	38.0
25	95.0	64.0	39.0	18.0	13.0	74.0	62.0	236.0	225.0	95.0	47.0	86.0
26	74.0	59.0	36.0	19.0	12.0	48.0	107.0	338.0	237.0	86.0	46.0	90.0
27	80.0	62.0	33.0	19.0	13.0	62.0	67.0	445.0	-	80.0	44.0	78.0
28	295.0	88.0	34.0	18.0	13.0	70.0	130.0	567.0	-	84.0	52.0	157.0
29	302.0	82.0	48.0	17.0	13.0	41.0	468.0	697.0	-	73.0	43.0	114.0
30	222.0	365.0	41.0	18.0	12.0	54.0	438.0	751.0	-	107.0	39.0	99.0
31	116.0		42.0	18.0		48.0		664.0		96.0	36.0	
TOTAL	3462.0	7140.0	2976.0	1002.0	435.0	1451.0	3390.0	7402.0	4492.0	5394.0	4606.0	1651.0
AVE.	111.7	238.0	96.0	32.3	15.5	46.8	113.0	238.8	299.5	174.0	148.6	55.0
ANN.AVE.												124.003
												AN.AVE.

1	70.0	394.0	284.0	43.2	21.2	31.2	42.4	252.0	622.0	116.6	127.2	33.8
2	79.4	151.8	74.8	64.0	17.2	35.4	33.2	75.2	-	261.4	490.6	29.2
3	41.6	297.0	50.0	30.4	15.2	28.2	130.0	66.8	441.0	183.6	129.2	43.6
4	210.0	388.4	83.0	22.2	13.4	19.2	136.4	173.8	174.4	261.8	72.2	62.6
5	73.6	71.6	46.6	18.8	12.4	111.6	94.0	220.2	251.4	150.2	50.0	53.4
6	181.5	125.2	39.0	18.2	12.7	53.8	242.0	577.0	237.0	87.7	43.3	107.6
1	74.7	272.9	184.4	53.6	19.2	33.3	37.8	163.6	622.0	189.0	308.9	31.5
2	125.8	342.7	66.5	26.3	14.3	23.7	133.2	130.3	250.6	222.7	100.7	53.1
3	132.5	98.4	42.5	18.5	12.5	80.1	168.0	414.8	249.0	116.1	46.4	60.5

( Elligawa : 1983 )

DAILY FLOW TABLE

Table

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	108.0	243.0	515.0	36.0	15.0	28.0	11.0	17.0	39.0	51.0	24.0	48.0	1
2	94.0	155.0	302.0	32.0	15.0	34.0	11.0	12.0	238.0	46.0	27.0	52.0	2
3	117.0	379.0	154.0	29.0	13.0	78.0	11.0	11.0	317.0	40.0	38.0	83.0	3
4	118.0	525.0	114.0	28.0	12.0	51.0	12.0	12.0	101.0	33.0	27.0	65.0	4
5	164.0	413.0	132.0	26.0	13.0	28.0	12.0	54.0	79.0	30.0	24.0	90.0	5
6	113.0	253.0	273.0	24.0	13.0	21.0	17.0	107.0	64.0	48.0	23.0	97.0	6
7	121.0	443.0	199.0	23.0	13.0	22.0	15.0	64.0	968.0	32.0	20.0	434.0	7
8	178.0	435.0	88.0	23.0	12.0	21.0	12.0	87.0	174.0	28.0	21.0	658.0	8
9	120.0	278.0	201.0	22.0	12.0	18.0	11.0	57.0	190.0	27.0	33.0	647.0	9
10	205.0	241.0	122.0	21.0	12.0	13.0	11.0	43.0	150.0	164.0	38.0	425.0	10
11	231.0	391.0	95.0	21.0	12.0	12.0	11.0	50.0	83.0	276.0	27.0	222.0	11
12	207.0	288.0	71.0	21.0	12.0	12.0	11.0	30.0	79.0	206.0	27.0	202.0	12
13	295.0	181.0	115.0	26.0	12.0	12.0	11.0	26.0	64.0	156.0	37.0	182.0	13
14	438.0	294.0	70.0	23.0	12.0	11.0	11.0	19.0	213.0	149.0	42.0	107.0	14
15	536.0	340.0	53.0	22.0	12.0	11.0	11.0	14.0	194.0	187.0	51.0	67.0	15
16	365.0	428.0	45.0	22.0	12.0	11.0	11.0	17.0	211.0	128.0	44.0	65.0	16
17	193.0	519.0	55.0	20.0	12.0	11.0	11.0	124.0	110.0	136.0	89.0	85.0	17
18	373.0	343.0	54.0	19.0	12.0	11.0	11.0	306.0	79.0	90.0	177.0	121.0	18
19	470.0	183.0	54.0	18.0	12.0	11.0	11.0	392.0	19.0	86.0	304.0	196.0	19
20	408.0	331.0	50.0	26.0	12.0	11.0	11.0	164.0	114.0	95.0	451.0	356.0	20
21	242.0	309.0	45.0	26.0	11.0	11.0	11.0	52.0	76.0	78.0	472.0	266.0	21
22	136.0	204.0	41.0	19.0	20.0	11.0	11.0	38.0	59.0	66.0	343.0	186.0	22
23	156.0	164.0	40.0	17.0	19.0	11.0	22.0	33.0	60.0	58.0	117.0	395.0	23
24	374.0	251.0	39.0	16.0	15.0	12.0	16.0	26.0	60.0	47.0	76.0	389.0	24
25	406.0	189.0	36.0	16.0	15.0	12.0	14.0	17.0	78.0	42.0	63.0	278.0	25
26	337.0	221.0	35.0	26.0	13.0	12.0	12.0	51.0	86.0	36.0	55.0	301.0	26
27	354.0	337.0	34.0	26.0	12.0	12.0	12.0	136.0	64.0	33.0	53.0	183.0	27
28	359.0	357.0	35.0	20.0	12.0	11.0	16.0	223.0	57.0	31.0	60.0	130.0	28
29	234.0	476.0	27.0	18.0	12.0	11.0	27.0	149.0	54.0	27.0	45.0	90.0	29
30	159.0	717.0	45.0	17.0	11.0	11.0	23.0	78.0	64.0	27.0	44.0	77.0	30
31	145.0		29.0	16.0		11.0		57.0		25.0	60.0		31
TOTAL	7756.0	9888.0	3169.0	699.0	368.0	552.0	397.0	2496.0	4254.0	2478.0	2912.0	6477.0	TOTAL
AVE.	250.2	329.6	102.2	22.5	13.1	17.8	13.2	80.5	141.8	79.9	93.9	215.9	AVE.
ANN-AVE.												113.551	ANN-AVE
1	120.2	343.0	243.4	30.2	13.8	43.8	11.4	21.2	154.8	40.0	28.0	67.6	1
2	147.4	330.0	176.6	22.6	12.4	19.0	13.2	71.6	308.2	59.8	27.0	452.2	2
3	341.4	298.8	80.8	22.6	12.0	11.6	11.0	27.8	126.6	194.8	36.8	152.0	3
4	361.8	360.8	51.8	21.0	12.0	11.0	11.0	200.6	128.6	107.0	213.0	164.6	4
5	282.8	223.4	40.2	18.8	16.0	11.4	14.8	35.2	66.6	58.2	214.2	302.8	5
6	264.7	421.6	34.2	20.5	12.3	11.3	18.0	119.0	65.0	29.8	52.8	156.2	6
1	133.8	336.5	210.0	26.4	13.1	31.4	12.3	46.4	232.0	49.9	27.5	259.9	1
2	351.6	329.8	66.3	21.8	12.0	11.3	11.0	114.2	127.6	150.9	124.9	158.3	2
3	263.8	322.5	36.9	19.7	14.6	11.4	16.4	80.9	65.8	42.7	126.2	229.5	3

( Eilagawa : 1984 )

DAILY FLOW TABLE

Table

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	67.0	181.0	115.0	115.0	45.0	46.0	158.0	106.0	786.0	203.0	60.0	21.0
2	58.0	381.0	115.0	160.0	42.0	29.0	158.0	88.0	587.0	418.0	53.0	21.0
3	53.0	401.0	130.0	129.0	38.0	51.0	235.0	84.0	644.0	457.0	51.0	25.0
4	51.0	416.0	96.0	191.0	37.0	49.0	176.0	80.0	466.0	334.0	48.0	35.0
5	45.0	294.0	101.0	118.0	40.0	80.0	176.0	75.0	221.0	412.0	47.0	26.0
6	41.0	147.0	109.0	135.0	65.0	211.0	162.0	68.0	138.0	315.0	71.0	22.0
7	40.0	391.0	106.0	130.0	43.0	295.0	121.0	72.0	131.0	220.0	52.0	20.0
8	37.0	445.0	75.0	94.0	43.0	201.0	107.0	264.0	317.0	387.0	45.0	19.0
9	34.0	193.0	107.0	72.0	56.0	244.0	90.0	362.0	342.0	156.0	42.0	18.0
10	30.0	94.0	262.0	63.0	99.0	239.0	201.0	205.0	153.0	222.0	70.0	18.0
11	44.0	74.0	374.0	149.0	436.0	215.0	274.0	159.0	214.0	388.0	69.0	17.0
12	42.0	64.0	251.0	151.0	247.0	142.0	125.0	135.0	371.0	874.0	47.0	17.0
13	36.0	54.0	139.0	110.0	77.0	88.0	135.0	76.0	390.0	1294.0	41.0	15.0
14	32.0	47.0	160.0	82.0	60.0	66.0	209.0	60.0	267.0	1343.0	38.0	15.0
15	37.0	43.0	158.0	101.0	117.0	53.0	322.0	60.0	159.0	1134.0	36.0	14.0
16	50.0	39.0	311.0	71.0	175.0	46.0	244.0	91.0	126.0	877.0	35.0	15.0
17	86.0	34.0	287.0	59.0	85.0	40.0	121.0	195.0	131.0	629.0	35.0	15.0
18	53.0	100.0	163.0	224.0	153.0	44.0	227.0	126.0	179.0	271.0	35.0	14.0
19	243.0	104.0	110.0	365.0	78.0	61.0	301.0	95.0	173.0	171.0	32.0	13.0
20	144.0	188.0	124.0	287.0	72.0	47.0	467.0	85.0	114.0	149.0	30.0	13.0
21	118.0	112.0	242.0	314.0	126.0	50.0	500.0	99.0	105.0	252.0	29.0	15.0
22	93.0	50.0	344.0	173.0	75.0	47.0	481.0	501.0	95.0	272.0	30.0	25.0
23	53.0	49.0	289.0	88.0	82.0	43.0	413.0	741.0	82.0	134.0	29.0	57.0
24	48.0	60.0	180.0	73.0	77.0	42.0	857.0	641.0	111.0	102.0	28.0	143.0
25	38.0	57.0	253.0	67.0	56.0	63.0	1105.0	340.0	129.0	95.0	27.0	87.0
26	32.0	44.0	200.0	71.0	46.0	91.0	1009.0	150.0	108.0	92.0	34.0	79.0
27	28.0	44.0	153.0	65.0	40.0	174.0	733.0	116.0	198.0	68.0	33.0	180.0
28	26.0	36.0	164.0	103.0	39.0	369.0	523.0	234.0	296.0	76.0	28.0	431.0
29	25.0	57.0	87.0	65.0	46.0	288.0	204.0	801.0	249.0	74.0	25.0	616.0
30	90.0	129.0	260.0	57.0	338.0	338.0	126.0	1089.0	156.0	82.0	24.0	580.0
31	51.0		188.0	50.0	287.0	287.0		959.0		68.0	23.0	
TOTAL	1825.0	4328.0	5653.0	3932.0	2596.0	4020.0	10020.0	8157.0	7408.0	11600.0	1247.0	2586.0
AVE.	58.9	144.3	182.4	126.8	89.5	129.7	334.0	263.1	246.9	374.2	40.2	86.2
ANN.AVE.												173.145
ANN.AVE.												AN.AVE
1	54.8	334.6	111.4	142.6	40.4	51.0	180.6	86.6	540.8	370.8	51.8	25.6
2	36.4	254.0	131.8	98.8	61.2	238.0	136.2	194.2	210.2	260.0	56.0	19.4
3	38.2	56.4	216.4	118.6	187.4	112.8	213.0	98.0	280.2	1006.6	46.2	15.6
4	115.2	93.0	199.0	201.2	112.6	47.6	272.0	118.4	144.6	419.4	33.4	14.0
5	70.0	65.6	261.6	143.0	83.2	51.2	673.2	464.4	104.4	171.0	28.6	65.4
6	42.0	62.0	175.3	68.5	42.8	232.8	529.0	558.2	201.4	76.8	27.8	377.2
1	45.6	284.3	121.6	120.7	50.8	144.5	158.4	140.4	375.5	315.4	53.9	22.5
2	76.7	74.7	207.7	159.9	150.0	80.2	242.5	108.2	212.4	713.0	39.8	14.8
3	54.7	63.8	214.5	102.4	65.2	161.2	601.1	515.5	152.9	119.6	28.2	221.3

( Ellagawa : 1985 )

Table DAILY FLOW TABLE

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	513.0	136.0	68.0	45.0	52.0	147.0	77.0	18.0	485.0	215.0	53.0	41.0
2	408.0	115.0	50.0	48.0	65.0	91.0	114.0	16.0	583.0	194.0	50.0	42.0
3	364.0	84.0	55.0	40.0	81.0	72.0	101.0	16.0	599.0	163.0	58.0	49.0
4	312.0	76.0	87.0	164.0	61.0	46.0	84.0	15.0	581.0	150.0	109.0	44.0
5	184.0	86.0	134.0	131.0	50.0	34.0	79.0	14.0	649.0	160.0	90.0	39.0
6	167.0	167.0	65.0	89.0	85.0	34.0	71.0	14.0	804.0	163.0	69.0	39.0
7	169.0	148.0	109.0	82.0	116.0	34.0	139.0	16.0	834.0	132.0	115.0	35.0
8	116.0	81.0	69.0	63.0	198.0	28.0	134.0	13.0	765.0	114.0	174.0	33.0
9	166.0	114.0	54.0	46.0	81.0	24.0	97.0	30.0	659.0	106.0	171.0	33.0
10	231.0	335.0	142.0	39.0	57.0	22.0	116.0	30.0	560.0	102.0	158.0	57.0
11	118.0	452.0	125.0	36.0	50.0	40.0	132.0	48.0	347.0	173.0	160.0	64.0
12	83.0	272.0	64.0	97.0	51.0	31.0	95.0	32.0	176.0	406.0	179.0	83.0
13	87.0	118.0	51.0	108.0	40.0	20.0	66.0	24.0	165.0	341.0	288.0	84.0
14	85.0	92.0	46.0	57.0	33.0	40.0	51.0	25.0	405.0	195.0	160.0	52.0
15	63.0	150.0	39.0	41.0	30.0	32.0	42.0	29.0	539.0	306.0	125.0	30.0
16	53.0	151.0	35.0	39.0	28.0	24.0	35.0	147.0	547.0	323.0	97.0	34.0
17	33.0	204.0	39.0	45.0	25.0	52.0	31.0	161.0	487.0	149.0	96.0	32.0
18	47.0	221.0	59.0	40.0	24.0	91.0	28.0	158.0	466.0	132.0	87.0	29.0
19	41.0	194.0	49.0	61.0	23.0	74.0	34.0	215.0	484.0	154.0	322.0	28.0
20	37.0	348.0	61.0	110.0	24.0	215.0	57.0	340.0	579.0	165.0	384.0	28.0
21	35.0	347.0	58.0	55.0	22.0	151.0	53.0	467.0	685.0	142.0	122.0	32.0
22	39.0	223.0	47.0	38.0	20.0	156.0	40.0	490.0	767.0	171.0	87.0	40.0
23	56.0	384.0	64.0	34.0	18.0	93.0	41.0	510.0	823.0	117.0	90.0	43.0
24	52.0	412.0	114.0	85.0	18.0	119.0	50.0	655.0	846.0	90.0	68.0	134.0
25	39.0	308.0	65.0	53.0	18.0	124.0	33.0	880.0	861.0	87.0	61.0	63.0
26	34.0	301.0	43.0	44.0	21.0	110.0	36.0	829.0	883.0	130.0	55.0	60.0
27	67.0	164.0	37.0	35.0	46.0	112.0	26.0	695.0	843.0	104.0	52.0	50.0
28	68.0	114.0	40.0	41.0	86.0	69.0	22.0	570.0	737.0	80.0	50.0	53.0
29	156.0	99.0	33.0	131.0	56.0	56.0	20.0	364.0	600.0	64.0	45.0	185.0
30	140.0	81.0	32.0	76.0	76.0	47.0	18.0	169.0	568.0	60.0	43.0	49.0
31	131.0		69.0	62.0		61.0		194.0		70.0	42.0	
TOTAL	4094.0	5977.0	2014.0	2036.0	1423.0	2249.0	1922.0	7194.0	18307.0	4958.0	3560.0	1585.0
AVE.	132.1	199.2	65.0	65.7	50.8	72.5	64.1	232.1	610.2	159.9	118.1	52.8
ANN-AVE.												151.833
												AN-AVE
1	356.2	99.4	80.8	85.6	61.8	78.0	91.0	15.8	579.4	176.4	72.0	43.0
2	169.8	169.0	87.8	63.8	107.4	28.4	111.4	20.6	724.4	123.4	137.4	39.4
3	87.2	216.8	65.2	67.8	40.8	32.6	77.2	31.6	326.4	284.2	182.4	62.6
4	42.2	223.6	48.6	59.0	24.8	91.2	37.0	204.2	508.6	184.6	197.2	30.2
5	44.2	334.8	69.6	53.0	19.2	128.6	43.4	602.4	796.4	121.4	85.6	62.4
6	99.3	151.8	42.3	65.0	61.0	75.8	24.4	470.2	726.2	84.7	47.8	79.4
1	263.0	134.2	84.3	74.7	84.6	53.2	101.2	18.2	651.9	149.9	104.7	41.2
2	64.7	220.2	56.9	63.4	32.8	61.9	57.1	117.9	417.5	234.4	189.8	46.4
3	74.3	243.3	54.7	59.5	31.1	99.8	33.9	530.3	761.3	101.4	65.0	70.9

( Elliptagma : 1886 )

DAILY FLOW TABLE

Table

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	565.0	388.0	55.0	45.0	28.0	53.0	26.0	204.0	41.0	24.0	51.0	15.0
2	604.0	328.0	248.0	41.0	27.0	48.0	38.0	145.0	39.0	40.0	54.0	27.0
3	636.0	295.0	331.0	40.0	25.0	26.0	40.0	99.0	35.0	23.0	96.0	26.0
4	774.0	181.0	139.0	38.0	24.0	47.0	71.0	152.0	31.0	23.0	132.0	23.0
5	839.0	128.0	87.0	52.0	24.0	44.0	92.0	102.0	67.0	23.0	92.0	28.0
6	833.0	128.0	118.0	55.0	23.0	38.0	103.0	288.0	58.0	22.0	140.0	34.0
7	738.0	142.0	165.0	90.0	22.0	32.0	156.0	326.0	51.0	22.0	376.0	36.0
8	596.0	194.0	325.0	110.0	21.0	35.0	72.0	219.0	52.0	22.0	421.0	28.0
9	444.0	122.0	347.0	95.0	26.0	53.0	66.0	366.0	187.0	20.0	345.0	37.0
10	486.0	244.0	140.0	195.0	53.0	81.0	76.0	219.0	140.0	23.0	211.0	33.0
11	440.0	298.0	80.0	332.0	36.0	51.0	89.0	188.0	51.0	31.0	132.0	33.0
12	393.0	561.0	94.0	132.0	59.0	40.0	80.0	84.0	42.0	24.0	179.0	34.0
13	229.0	667.0	85.0	86.0	64.0	38.0	186.0	66.0	59.0	57.0	405.0	107.0
14	150.0	633.0	73.0	153.0	138.0	55.0	121.0	56.0	161.0	50.0	374.0	309.0
15	143.0	492.0	323.0	90.0	275.0	68.0	115.0	49.0	160.0	149.0	149.0	385.0
16	99.0	203.0	378.0	63.0	164.0	52.0	84.0	45.0	118.0	49.0	94.0	466.0
17	81.0	126.0	341.0	53.0	71.0	42.0	82.0	61.0	97.0	52.0	75.0	532.0
18	72.0	98.0	378.0	48.0	79.0	83.0	82.0	315.0	64.0	35.0	61.0	510.0
19	67.0	83.0	182.0	43.0	92.0	63.0	66.0	450.0	49.0	26.0	51.0	428.0
20	64.0	74.0	125.0	40.0	239.0	92.0	91.0	324.0	41.0	22.0	46.0	261.0
21	77.0	87.0	85.0	37.0	178.0	88.0	122.0	129.0	35.0	20.0	42.0	169.0
22	86.0	76.0	78.0	35.0	141.0	79.0	156.0	108.0	31.0	19.0	38.0	148.0
23	150.0	67.0	193.0	38.0	87.0	81.0	184.0	88.0	28.0	17.0	35.0	199.0
24	146.0	64.0	121.0	56.0	61.0	64.0	160.0	73.0	27.0	16.0	32.0	267.0
25	90.0	52.0	80.0	50.0	65.0	46.0	255.0	68.0	30.0	49.0	30.0	300.0
26	141.0	48.0	110.0	47.0	162.0	41.0	332.0	56.0	45.0	64.0	27.0	321.0
27	390.0	46.0	81.0	42.0	71.0	54.0	228.0	48.0	55.0	53.0	25.0	330.0
28	397.0	48.0	71.0	35.0	47.0	43.0	174.0	43.0	49.0	34.0	24.0	203.0
29	226.0	48.0	59.0	33.0	34.0	34.0	103.0	45.0	43.0	33.0	24.0	190.0
30	336.0	50.0	52.0	31.0	27.0	27.0	170.0	107.0	29.0	25.0	25.0	463.0
31	403.0	48.0	48.0	30.0	30.0	30.0	91.0	53.0	43.0	22.0	22.0	261.0
TOTAL	10717.0	5971.0	4992.0	2235.0	2302.0	1642.0	3630.0	4576.0	1915.0	1018.0	3808.0	5942.0
AVE.	345.7	199.0	161.0	72.1	82.2	53.0	120.7	147.6	63.8	32.8	122.8	198.1
ANN. AVE.												133.529
1	695.6	282.0	172.0	43.2	25.6	46.4	53.4	140.4	42.6	27.2	85.0	23.8
2	609.8	166.0	219.0	109.0	29.0	47.8	94.6	283.6	97.6	22.0	298.6	33.6
3	271.0	534.2	131.0	158.6	114.4	50.4	118.2	88.6	94.6	43.0	247.8	173.6
4	76.6	116.8	280.8	49.4	129.0	66.4	81.0	239.0	73.8	36.8	65.4	439.4
5	111.8	65.2	111.4	43.2	106.4	71.6	175.4	93.2	30.2	24.2	35.4	216.6
6	315.5	50.0	70.2	36.3	93.3	38.2	201.4	58.7	44.2	42.0	24.5	301.4
1	652.7	214.0	195.5	76.1	27.3	47.1	74.0	212.0	70.1	24.6	191.8	28.7
2	173.8	325.5	205.9	104.0	121.7	58.4	99.6	163.8	84.2	39.9	156.6	306.5
3	222.9	57.6	88.9	39.5	101.5	53.4	188.4	74.4	37.2	33.5	29.5	259.0

( Ellagawa : 1987 )

DAILY FLOW TABLE

Table

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	650.0	86.0	74.0	100.0	25.0	12.0	25.0	117.0	214.0	39.0	12.0	91.0
2	797.0	84.0	101.0	49.0	21.0	12.0	12.0	88.0	277.0	35.0	12.0	76.0
3	761.0	103.0	74.0	41.0	17.0	12.0	12.0	42.0	420.0	30.0	16.0	67.0
4	317.0	88.0	58.0	29.0	14.0	12.0	44.0	40.0	328.0	26.0	28.0	58.0
5	416.0	187.0	70.0	25.0	14.0	12.0	52.0	42.0	153.0	24.0	40.0	51.0
6	304.0	309.0	164.0	25.0	14.0	12.0	73.0	26.0	123.0	22.0	40.0	48.0
7	225.0	207.0	87.0	22.0	14.0	12.0	85.0	20.0	91.0	21.0	49.0	43.0
8	342.0	120.0	64.0	22.0	18.0	12.0	36.0	17.0	60.0	19.0	28.0	40.0
9	295.0	89.0	103.0	25.0	33.0	12.0	21.0	15.0	48.0	18.0	29.0	70.0
10	160.0	59.0	177.0	78.0	25.0	16.0	16.0	19.0	105.0	18.0	59.0	35.0
11	258.0	68.0	119.0	132.0	20.0	20.0	13.0	18.0	38.0	18.0	52.0	33.0
12	373.0	96.0	118.0	121.0	16.0	17.0	13.0	15.0	52.0	17.0	229.0	30.0
13	334.0	134.0	71.0	75.0	14.0	23.0	12.0	15.0	48.0	16.0	400.0	29.0
14	294.0	175.0	61.0	56.0	14.0	29.0	12.0	24.0	37.0	15.0	353.0	27.0
15	406.0	83.0	60.0	44.0	13.0	26.0	12.0	24.0	36.0	15.0	149.0	27.0
16	514.0	85.0	50.0	35.0	13.0	16.0	12.0	159.0	156.0	14.0	192.0	31.0
17	518.0	207.0	43.0	29.0	13.0	18.0	12.0	91.0	221.0	14.0	535.0	32.0
18	526.0	150.0	37.0	27.0	13.0	14.0	21.0	217.0	92.0	14.0	475.0	57.0
19	429.0	77.0	34.0	27.0	12.0	28.0	33.0	167.0	51.0	14.0	565.0	75.0
20	297.0	99.0	20.0	26.0	13.0	19.0	133.0	118.0	49.0	13.0	555.0	220.0
21	162.0	168.0	42.0	39.0	12.0	22.0	88.0	85.0	42.0	13.0	448.0	190.0
22	150.0	136.0	48.0	30.0	12.0	21.0	75.0	65.0	43.0	12.0	415.0	149.0
23	197.0	92.0	39.0	22.0	13.0	13.0	70.0	92.0	44.0	12.0	625.0	259.0
24	120.0	66.0	33.0	20.0	12.0	13.0	79.0	164.0	46.0	12.0	256.0	407.0
25	97.0	57.0	32.0	20.0	12.0	12.0	68.0	131.0	75.0	12.0	270.0	279.0
26	91.0	85.0	31.0	23.0	12.0	11.0	55.0	79.0	88.0	13.0	252.0	132.0
27	153.0	68.0	29.0	48.0	12.0	11.0	43.0	137.0	107.0	12.0	194.0	115.0
28	145.0	51.0	32.0	58.0	12.0	34.0	34.0	83.0	84.0	12.0	228.0	142.0
29	107.0	75.0	27.0	38.0	12.0	38.0	45.0	54.0	57.0	12.0	317.0	163.0
30	87.0	70.0	41.0	29.0	12.0	34.0	86.0	48.0	48.0	12.0	190.0	163.0
31	110.0	84.0	84.0	28.0	19.0	19.0	64.0	64.0	12.0	118.0	118.0	31
TOTAL	9635.0	3374.0	2023.0	1343.0	433.0	562.0	1292.0	2282.0	3253.0	536.0	7131.0	3139.0
AVE.	310.8	112.5	65.3	43.3	15.5	18.1	43.1	73.6	108.4	17.3	230.0	104.6
ANN-AVE.												95.899
												AN-AVE
1	588.2	109.6	75.4	48.8	18.2	12.0	29.0	66.8	278.4	30.8	21.6	68.6
2	265.2	156.8	119.0	34.4	20.8	12.8	46.2	19.4	86.4	19.6	41.0	47.2
3	333.0	111.2	85.8	85.6	15.4	23.0	12.4	19.2	42.2	16.2	236.6	29.2
4	456.8	123.6	36.8	28.8	12.8	19.0	42.2	150.4	117.8	13.8	464.4	83.0
5	145.2	103.8	38.8	26.2	12.2	16.2	76.0	107.6	50.0	12.2	402.8	256.8
6	115.5	69.8	40.7	37.3	12.0	24.5	52.6	77.5	76.8	12.2	216.5	143.0
1	426.7	133.2	97.2	41.6	19.5	12.4	37.6	43.1	181.9	25.2	31.3	57.9
2	394.9	117.4	61.3	57.2	14.1	21.0	27.3	84.8	80.0	15.0	350.5	56.1
3	129.0	86.8	39.8	32.3	12.1	20.7	64.3	91.2	63.4	12.2	301.2	199.9

( Ellagawa : 1988 )

DAILY FLOW TABLE

Table

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	153.0	307.0	71.0	29.0	17.0	305.0	24.0	71.0	595.0	313.0	38.0	98.0
2	88.0	245.0	98.0	26.0	15.0	129.0	22.0	73.0	752.0	225.0	54.0	120.0
3	81.0	200.0	67.0	24.0	17.0	103.0	34.0	73.0	957.0	219.0	50.0	124.0
4	122.0	151.0	65.0	36.0	38.0	74.0	34.0	56.0	1020.0	137.0	48.0	146.0
5	170.0	225.0	95.0	32.0	35.0	128.0	84.0	51.0	645.0	183.0	87.0	101.0
6	132.0	182.0	102.0	27.0	25.0	82.0	79.0	49.0	822.0	250.0	41.0	181.0
7	145.0	215.0	64.0	24.0	15.0	50.0	75.0	52.0	771.0	299.0	268.0	224.0
8	220.0	163.0	80.0	22.0	13.0	39.0	69.0	102.0	494.0	151.0	428.0	597.0
9	215.0	114.0	64.0	20.0	12.0	62.0	103.0	80.0	359.0	116.0	444.0	793.0
10	169.0	96.0	57.0	19.0	12.0	85.0	88.0	57.0	224.0	105.0	227.0	737.0
11	119.0	82.0	93.0	21.0	13.0	85.0	112.0	49.0	182.0	142.0	167.0	574.0
12	134.0	80.0	83.0	32.0	12.0	122.0	129.0	40.0	156.0	113.0	531.0	366.0
13	254.0	140.0	73.0	40.0	13.0	120.0	183.0	35.0	125.0	365.0	628.0	278.0
14	164.0	242.0	60.0	45.0	40.0	113.0	136.0	32.0	107.0	225.0	593.0	220.0
15	107.0	321.0	61.0	46.0	53.0	132.0	255.0	45.0	94.0	145.0	485.0	325.0
16	98.0	202.0	49.0	30.0	60.0	331.0	173.0	120.0	89.0	120.0	350.0	426.0
17	163.0	173.0	41.0	23.0	59.0	433.0	115.0	143.0	82.0	93.0	226.0	454.0
18	191.0	189.0	38.0	21.0	41.0	436.0	96.0	79.0	75.0	189.0	136.0	573.0
19	149.0	235.0	38.0	20.0	65.0	205.0	143.0	64.0	70.0	265.0	122.0	639.0
20	118.0	120.0	33.0	19.0	30.0	90.0	147.0	136.0	69.0	166.0	109.0	645.0
21	158.0	315.0	30.0	18.0	20.0	74.0	268.0	136.0	71.0	187.0	96.0	523.0
22	188.0	173.0	29.0	17.0	23.0	67.0	308.0	66.0	72.0	459.0	87.0	269.0
23	128.0	308.0	40.0	16.0	60.0	52.0	232.0	164.0	95.0	497.0	134.0	167.0
24	154.0	219.0	134.0	15.0	36.0	51.0	177.0	235.0	100.0	261.0	324.0	152.0
25	248.0	244.0	149.0	18.0	60.0	43.0	156.0	300.0	110.0	132.0	170.0	127.0
26	420.0	290.0	84.0	71.0	66.0	55.0	148.0	539.0	399.0	109.0	101.0	419.0
27	663.0	302.0	51.0	57.0	55.0	89.0	89.0	631.0	430.0	93.0	103.0	430.0
28	682.0	205.0	40.0	22.0	41.0	38.0	79.0	656.0	147.0	91.0	117.0	245.0
29	542.0	171.0	35.0	23.0	121.0	36.0	103.0	788.0	105.0	82.0	226.0	133.0
30	486.0	121.0	32.0	19.0	30.0	30.0	74.0	838.0	156.0	67.0	171.0	102.0
31	465.0		36.0	17.0	26.0			747.0		64.0	134.0	
TOTAL	7136.0	6030.0	1982.0	849.0	1068.0	3691.0	3735.0	6503.0	9375.0	5863.0	7101.0	10198.0
AVE.	230.2	201.0	64.3	27.4	36.8	119.1	124.5	209.9	312.5	189.1	229.1	339.9
ANN-AVE.												173.623
												AN-AVE
1	124.8	225.6	79.2	29.4	24.6	147.8	39.6	64.8	793.8	215.4	55.4	117.8
2	176.2	154.0	73.4	22.4	15.4	63.6	82.8	68.0	534.0	184.2	356.8	506.4
3	155.6	173.0	74.0	36.8	26.2	126.4	163.0	40.4	132.8	198.0	482.8	352.6
4	143.8	183.8	39.8	22.6	51.0	299.0	134.8	108.4	77.0	166.6	192.6	549.4
5	175.2	251.8	76.4	16.8	39.8	56.4	228.2	180.2	89.6	307.2	162.2	247.6
6	543.0	217.8	46.3	34.8	70.8	37.5	98.6	699.8	247.8	84.3	142.0	263.8
1	150.5	189.8	76.3	25.9	20.0	105.7	61.2	66.4	663.9	199.8	206.1	312.1
2	149.7	178.4	56.9	29.7	38.6	212.7	148.9	74.4	104.9	182.3	337.7	461.0
3	375.8	234.8	60.0	26.6	53.6	46.1	163.4	463.6	168.7	185.6	151.2	256.7



( ELLIENNA : 1989 )

DAILY FLOW TABLE

Table

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	93.0	120.0	34.0	31.0	14.0	12.0	12.0	25.0	830.0	73.0	78.0	49.0
2	78.0	139.0	33.0	29.0	14.0	22.0	12.0	37.0	930.0	99.0	72.0	36.0
3	70.0	173.0	34.0	30.0	14.0	11.0	12.0	25.0	1308.0	90.0	71.0	39.0
4	64.0	205.0	41.0	33.0	13.0	11.0	48.0	46.0	1167.0	71.0	98.0	56.0
5	62.0	280.0	63.0	34.0	13.0	11.0	40.0	45.0	1095.0	76.0	194.0	64.0
6	71.0	360.0	114.0	43.0	13.0	11.0	13.0	64.0	780.0	107.0	175.0	45.0
7	69.0	232.0	70.0	35.0	13.0	12.0	12.0	66.0	503.0	84.0	127.0	52.0
8	59.0	176.0	49.0	30.0	13.0	10.0	12.0	85.0	838.0	61.0	164.0	88.0
9	52.0	140.0	75.0	27.0	13.0	12.0	12.0	67.0	636.0	61.0	122.0	60.0
10	52.0	235.0	125.0	25.0	12.0	13.0	12.0	127.0	424.0	76.0	165.0	58.0
11	46.0	403.0	70.0	23.0	12.0	25.0	13.0	93.0	259.0	228.0	311.0	41.0
12	41.0	548.0	53.0	21.0	12.0	54.0	25.0	44.0	258.0	781.0	594.0	39.0
13	38.0	531.0	55.0	20.0	12.0	88.0	12.0	35.0	403.0	976.0	523.0	83.0
14	37.0	347.0	85.0	22.0	12.0	143.0	11.0	49.0	363.0	898.0	279.0	153.0
15	35.0	170.0	103.0	31.0	12.0	69.0	11.0	40.0	188.0	740.0	118.0	111.0
16	33.0	179.0	43.0	34.0	12.0	40.0	12.0	29.0	157.0	530.0	94.0	107.0
17	32.0	215.0	35.0	33.0	12.0	24.0	18.0	55.0	132.0	424.0	113.0	181.0
18	36.0	190.0	34.0	30.0	12.0	20.0	40.0	97.0	123.0	295.0	84.0	325.0
19	53.0	192.0	32.0	28.0	12.0	15.0	32.0	66.0	180.0	197.0	85.0	422.0
20	38.0	186.0	32.0	26.0	12.0	12.0	69.0	101.0	189.0	192.0	82.0	485.0
21	32.0	193.0	35.0	23.0	12.0	12.0	213.0	185.0	183.0	370.0	119.0	521.0
22	29.0	117.0	41.0	20.0	12.0	19.0	108.0	212.0	180.0	596.0	79.0	487.0
23	29.0	71.0	53.0	19.0	12.0	16.0	70.0	385.0	200.0	704.0	72.0	417.0
24	28.0	56.0	42.0	17.0	12.0	13.0	52.0	428.0	193.0	695.0	66.0	313.0
25	35.0	51.0	47.0	17.0	12.0	11.0	51.0	374.0	114.0	608.0	88.0	246.0
26	39.0	47.0	52.0	16.0	12.0	25.0	43.0	210.0	108.0	474.0	61.0	269.0
27	86.0	43.0	52.0	15.0	13.0	18.0	51.0	129.0	107.0	383.0	58.0	200.0
28	121.0	41.0	50.0	14.0	12.0	11.0	54.0	77.0	114.0	287.0	55.0	134.0
29	132.0	39.0	50.0	13.0	12.0	12.0	48.0	72.0	124.0	191.0	51.0	92.0
30	93.0	37.0	42.0	13.0	12.0	12.0	35.0	122.0	104.0	95.0	46.0	108.0
31	108.0		34.0	15.0	13.0			660.0		88.0	44.0	
TOTAL	1841.0	5766.0	1879.0	767.0	348.0	777.0	1153.0	4048.0	12090.0	10550.0	4288.0	5281.0
AVE.	59.4	192.2	54.2	24.7	12.4	25.1	38.4	130.6	403.0	340.3	138.3	176.0
ANN.AVE.												133.118
												AN.AVE
1	73.4	183.4	41.0	31.4	13.6	13.4	24.8	36.0	1048.0	81.8	102.6	48.8
2	60.6	238.6	86.6	32.0	12.8	11.6	12.2	81.8	636.2	77.8	150.6	60.6
3	39.4	299.8	73.2	23.4	12.0	75.8	14.4	50.2	296.2	724.6	385.0	85.4
4	38.4	192.4	35.4	30.2	12.0	22.2	34.2	69.6	152.2	327.6	91.6	304.0
5	30.6	97.6	43.6	19.2	12.0	14.2	98.8	316.8	174.0	594.6	84.8	396.8
6	104.8	41.4	46.7	14.3	12.0	15.2	46.2	312.7	111.4	253.0	52.5	160.6
1	57.0	211.0	63.8	31.7	13.2	12.5	18.5	58.9	842.1	79.8	126.6	54.7
2	38.9	296.1	54.3	26.8	12.0	49.0	24.3	59.9	224.2	526.1	228.3	194.7
3	71.1	59.5	45.3	16.6	12.0	14.7	72.5	260.0	142.7	408.3	67.2	278.7

( Ellagawa : 1990 )

DAILY FLOW TABLE

Table

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	109.0	534.0	102.0	25.0	12.0	25.0	33.0	72.0	53.0	78.6	20.0	10.0
2	83.0	552.0	182.0	22.0	12.0	26.0	44.0	104.0	49.0	129.0	34.0	10.0
3	65.0	550.0	156.0	20.0	12.0	18.0	223.0	46.0	256.0	256.0	34.0	9.0
4	154.0	498.0	115.0	21.0	12.0	13.0	240.0	44.0	203.0	475.0	23.0	9.0
5	312.0	436.0	70.0	94.0	12.0	12.0	154.0	33.0	170.0	281.0	25.0	10.0
6	415.0	314.0	50.0	116.0	12.0	12.0	59.0	40.0	181.0	427.0	54.0	12.0
7	396.0	235.0	59.0	85.0	12.0	13.0	35.0	500.0	314.0	428.0	55.0	12.0
8	214.0	183.0	59.0	56.0	12.0	37.0	50.0	622.0	461.0	169.0	30.0	12.0
9	117.0	117.0	47.0	50.0	13.0	60.0	58.0	731.0	470.0	80.0	34.0	13.0
10	91.0	143.0	34.0	37.0	12.0	61.0	44.0	718.0	373.0	150.0	39.0	13.0
11	75.0	190.0	34.0	29.0	12.0	51.0	42.0	612.0	159.0	239.0	51.0	11.0
12	153.0	167.0	37.0	28.0	12.0	35.0	57.0	438.0	111.0	85.0	32.0	11.0
13	141.0	134.0	34.0	23.0	32.0	38.0	80.0	154.0	86.0	61.0	26.0	10.0
14	123.0	146.0	32.0	23.0	20.0	35.0	68.0	84.0	116.0	65.0	32.0	10.0
15	107.0	193.0	30.0	23.0	40.0	43.0	57.0	146.0	171.0	71.0	21.0	10.0
16	77.0	159.0	27.0	22.0	56.0	49.0	82.0	146.0	89.0	67.0	19.0	10.0
17	56.0	103.0	27.0	19.0	33.0	33.0	186.0	95.0	69.0	57.0	15.0	10.0
18	67.0	132.0	27.0	18.0	40.0	24.0	56.0	180.0	57.0	91.0	12.0	10.0
19	193.0	370.0	27.0	19.0	26.0	18.0	47.0	490.0	46.0	69.0	11.0	12.0
20	321.0	473.0	27.0	17.0	39.0	15.0	46.0	545.0	45.0	146.0	10.0	11.0
21	257.0	348.0	31.0	16.0	27.0	12.0	22.0	501.0	53.0	76.0	10.0	11.0
22	214.0	152.0	31.0	15.0	13.0	11.0	15.0	314.0	76.0	54.0	10.0	12.0
23	230.0	82.0	24.0	14.0	14.0	47.0	17.0	132.0	36.0	54.0	10.0	10.0
24	144.0	82.0	36.0	14.0	14.0	62.0	12.0	135.0	35.0	62.0	11.0	10.0
25	80.0	86.0	19.0	15.0	57.0	105.0	12.0	106.0	30.0	212.0	11.0	12.0
26	111.0	94.0	30.0	12.0	84.0	129.0	12.0	137.0	37.0	99.0	11.0	11.0
27	123.0	73.0	27.0	12.0	81.0	148.0	13.0	118.0	32.0	52.0	11.0	10.0
28	193.0	57.0	26.0	11.0	32.0	106.0	12.0	139.0	36.0	52.0	11.0	9.0
29	450.0	56.0	35.0	12.0	46.0	46.0	12.0	76.0	50.0	41.0	11.0	8.0
30	434.0	75.0	74.0	13.0	39.0	39.0	26.0	59.0	63.0	34.0	10.0	8.0
31	487.0	34.0	34.0	12.0	39.0	39.0	26.0	54.0	29.0	29.0	10.0	31
TOTAL	6002.0	6734.0	1543.0	890.0	751.0	1362.0	1814.0	7485.0	3740.0	4190.0	693.0	322.0
AVE.	193.6	224.5	49.8	28.7	26.8	43.9	60.5	241.5	124.7	136.2	22.4	10.7
ANN-AVE.												97.332
												AN-AVE
1	144.6	514.0	125.0	36.4	12.0	18.8	138.8	59.8	108.8	243.8	27.2	9.6
2	246.6	198.4	49.8	88.8	12.2	36.6	49.2	522.2	359.8	250.8	42.4	13.6
3	119.8	166.0	33.4	25.2	23.2	40.4	60.8	269.6	128.6	104.4	32.4	10.4
4	144.8	247.4	27.0	19.0	33.8	27.8	83.4	291.2	61.2	86.0	13.4	10.6
5	185.0	150.0	28.2	14.2	24.6	47.4	15.6	237.6	46.0	91.6	10.4	11.0
6	299.7	71.0	37.7	12.0	65.7	84.5	15.0	97.2	43.6	51.2	10.7	9.2
1	195.6	356.2	87.4	52.6	12.1	27.7	94.0	291.0	234.3	247.3	34.8	11.6
2	132.3	206.7	30.2	22.1	31.0	34.1	72.1	280.4	94.9	95.2	22.9	10.5
3	247.5	110.5	33.4	13.0	40.0	67.6	15.3	161.0	44.8	69.5	10.5	10.1

( Ellagawa : 1991 )

DAILY FLOW TABLE

Table

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.0	310.0	153.0	34.0	11.0	31.0	35.0	25.0	533.0	121.0	403.0	45.0
2	9.0	436.0	180.0	231.0	22.0	66.0	71.0	31.0	611.0	79.0	203.0	39.0
3	11.0	641.0	146.0	282.0	43.0	61.0	39.0	19.0	723.0	70.0	24.0	35.0
4	10.0	650.0	143.0	384.0	60.0	64.0	59.0	13.0	744.0	65.0	111.0	32.0
5	9.0	809.0	63.0	275.0	33.0	33.0	58.0	20.0	614.0	70.0	79.0	28.0
6	9.0	515.0	51.0	178.0	16.0	16.0	155.0	16.0	524.0	57.0	76.0	26.0
7	8.0	437.0	48.0	128.0	14.0	54.0	96.0	20.0	434.0	54.0	72.0	24.0
8	8.0	448.0	31.0	134.0	11.0	79.0	91.0	16.0	155.0	72.0	57.0	24.0
9	8.0	400.0	40.0	136.0	11.0	48.0	134.0	14.0	111.0	160.0	53.0	23.0
10	7.0	288.0	44.0	180.0	8.0	41.0	121.0	27.0	252.0	345.0	44.0	33.0
11	9.0	167.0	30.0	199.0	8.0	95.0	83.0	30.0	175.0	220.0	62.0	23.0
12	10.0	109.0	36.0	141.0	25.0	54.0	80.0	28.0	241.0	153.0	154.0	23.0
13	19.0	71.0	28.0	68.0	12.0	51.0	70.0	36.0	347.0	112.0	107.0	34.0
14	30.0	51.0	27.0	43.0	10.0	39.0	81.0	34.0	437.0	85.0	212.0	25.0
15	41.0	43.0	26.0	36.0	10.0	28.0	87.0	76.0	427.0	90.0	308.0	21.0
16	57.0	37.0	25.0	30.0	10.0	24.0	70.0	61.0	354.0	72.0	165.0	11.0
17	129.0	40.0	20.0	69.0	10.0	22.0	58.0	60.0	250.0	69.0	147.0	25.0
18	126.0	58.0	17.0	91.0	9.0	12.0	19.0	42.0	126.0	53.0	115.0	42.0
19	265.0	155.0	22.0	57.0	9.0	49.0	48.0	40.0	126.0	49.0	85.0	64.0
20	161.0	74.0	16.0	37.0	9.0	28.0	30.0	74.0	133.0	43.0	58.0	52.0
21	111.0	58.0	13.0	38.0	9.0	21.0	33.0	72.0	304.0	44.0	58.0	43.0
22	144.0	150.0	13.0	34.0	9.0	18.0	49.0	149.0	302.0	70.0	56.0	32.0
23	109.0	339.0	13.0	28.0	10.0	17.0	79.0	64.0	238.0	48.0	54.0	25.0
24	74.0	478.0	35.0	26.0	10.0	14.0	55.0	46.0	172.0	43.0	49.0	17.0
25	129.0	481.0	52.0	23.0	9.0	21.0	41.0	57.0	135.0	56.0	64.0	14.0
26	111.0	399.0	123.0	19.0	10.0	45.0	67.0	32.0	226.0	65.0	75.0	17.0
27	181.0	215.0	39.0	16.0	40.0	30.0	44.0	72.0	168.0	61.0	61.0	16.0
28	167.0	259.0	21.0	14.0	26.0	29.0	50.0	57.0	169.0	61.0	41.0	16.0
29	88.0	188.0	22.0	13.0	29.0	29.0	38.0	110.0	123.0	157.0	36.0	10.0
30	154.0	144.0	26.0	11.0	29.0	29.0	29.0	464.0	103.0	179.0	100.0	51.0
31	225.0		39.0	11.0		41.0		688.0		144.0	48.0	
TOTAL	2428.0	8290.0	1542.0	2966.0	464.0	1220.0	1970.0	2494.0	9257.0	2967.0	3177.0	870.0
AVE.	78.3	275.3	49.7	95.7	16.6	39.4	65.7	80.5	308.6	95.7	102.5	29.0
ANN-AVE.												103.137
												AN-AVE
1	9.6	537.2	137.0	241.2	33.8	51.0	52.4	21.8	645.0	81.0	184.0	35.8
2	6.0	417.6	42.8	151.2	12.0	51.6	119.4	18.6	295.2	137.6	60.4	26.0
3	21.8	88.2	29.4	97.4	13.0	53.6	80.2	40.8	325.4	132.0	168.6	25.2
4	147.6	72.8	20.0	56.8	9.4	29.0	45.0	55.4	197.8	57.2	114.0	38.8
5	113.4	301.2	25.2	29.8	9.4	18.2	51.4	77.5	230.2	52.2	56.2	26.2
6	154.3	241.0	45.0	14.0	25.3	33.8	45.6	237.2	157.8	111.2	60.2	22.0
1	8.8	477.4	89.9	196.2	22.9	51.3	85.9	20.2	470.1	109.3	112.2	30.9
2	84.7	80.5	24.7	77.1	11.2	41.3	62.6	48.1	261.6	94.6	141.3	32.0
3	135.7	271.1	36.0	21.2	15.4	26.7	48.5	154.6	194.0	84.4	58.4	24.1

( Ellagawa : 1992 )

DAILY FLOW TABLE

Table

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	221.0	550.0	39.0	34.0	46.0	11.0	10.0	31.0	92.0	44.0	227.0	401.0
2	176.0	414.0	39.0	51.0	51.0	11.0	12.0	179.0	88.0	111.0	156.0	271.0
3	23.0	154.0	39.0	41.0	32.0	11.0	14.0	119.0	413.0	107.0	93.0	168.0
4	75.0	127.0	36.0	32.0	17.0	11.0	21.0	110.0	593.0	137.0	164.0	90.0
5	39.0	173.0	34.0	29.0	14.0	11.0	12.0	58.0	850.0	78.0	292.0	34.0
6	70.0	234.0	34.0	30.0	13.0	11.0	11.0	87.0	823.0	67.0	122.0	77.0
7	36.0	311.0	32.0	71.0	13.0	11.0	11.0	111.0	676.0	135.0	125.0	94.0
8	29.0	349.0	30.0	39.0	13.0	11.0	10.0	62.0	536.0	372.0	133.0	97.0
9	17.0	430.0	28.0	34.0	12.0	11.0	10.0	30.0	466.0	376.0	108.0	260.0
10	41.0	389.0	27.0	55.0	12.0	11.0	10.0	73.0	317.0	133.0	775.0	433.0
11	27.0	322.0	37.0	34.0	12.0	11.0	10.0	60.0	171.0	137.0	90.0	441.0
12	27.0	360.0	27.0	27.0	12.0	10.0	10.0	45.0	127.0	295.0	133.0	396.0
13	43.0	275.0	43.0	23.0	12.0	10.0	10.0	96.0	117.0	167.0	94.0	215.0
14	86.0	227.0	36.0	21.0	12.0	10.0	12.0	61.0	119.0	162.0	74.0	128.0
15	56.0	169.0	32.0	20.0	12.0	10.0	12.0	84.0	106.0	122.0	64.0	104.0
16	57.0	167.0	39.0	30.0	12.0	10.0	17.0	88.0	39.0	259.0	96.0	37.0
17	96.0	124.0	33.0	19.0	12.0	10.0	51.0	110.0	78.0	468.0	45.0	72.0
18	70.0	303.0	33.0	19.0	12.0	13.0	68.0	191.0	67.0	491.0	44.0	66.0
19	52.0	177.0	34.0	13.0	12.0	13.0	12.0	507.0	71.0	210.0	44.0	69.0
20	61.0	193.0	43.0	18.0	12.0	11.0	43.0	612.0	77.0	147.0	41.0	69.0
21	64.0	124.0	72.0	16.0	11.0	10.0	52.0	598.0	61.0	88.0	39.0	56.0
22	121.0	123.0	129.0	16.0	12.0	10.0	64.0	465.0	74.0	75.0	37.0	64.0
23	138.0	104.0	184.0	17.0	11.0	10.0	70.0	172.0	76.0	54.0	35.0	139.0
24	253.0	23.0	116.0	52.0	11.0	11.0	79.0	92.0	76.0	61.0	33.0	153.0
25	253.0	80.0	87.0	17.0	11.0	10.0	83.0	63.0	80.0	80.0	37.0	82.0
26	170.0	43.0	76.0	13.0	11.0	11.0	67.0	57.0	47.0	103.0	41.0	130.0
27	135.0	31.0	54.0	16.0	11.0	11.0	52.0	49.0	44.0	98.0	47.0	107.0
28	467.0	40.0	47.0	14.0	11.0	11.0	60.0	43.0	40.0	115.0	72.0	639.0
29	433.0	70.0	67.0	13.0	11.0	10.0	46.0	39.0	36.0	137.0	99.0	672.0
30	587.0	46.0	71.0	13.0	11.0	10.0	48.0	38.0	36.0	122.0	347.0	612.0
31	684.0		36.0	20.0		10.0		64.0		27.0	452.0	
TOTAL	4607.0	6132.0	1634.0	847.0	443.0	332.0	1006.0	4394.0	6372.0	4968.0	4119.0	6176.0
AVE.	148.6	204.4	52.7	27.3	15.3	10.7	33.5	141.7	212.4	160.3	132.9	205.9
ANN.AVE.												112.104
ANN.AVE												
1	106.8	283.6	37.4	37.4	32.0	11.0	13.8	94.4	407.2	95.4	186.4	192.8
2	38.6	342.6	30.2	45.8	12.6	11.0	10.4	72.6	563.6	216.6	252.6	192.2
3	47.8	270.6	35.0	25.0	12.0	10.2	10.8	69.2	128.0	174.6	91.0	256.8
4	67.2	192.8	36.4	19.8	12.0	11.4	42.0	301.6	66.4	315.0	46.0	62.6
5	165.8	90.8	117.6	23.6	11.2	10.2	69.6	278.0	68.6	71.6	36.2	98.8
6	412.7	46.0	68.5	14.8	11.0	10.5	54.6	48.3	40.6	100.3	176.3	432.0
1	72.7	313.1	33.8	41.6	22.3	11.0	12.1	86.0	485.4	156.0	219.5	192.5
2	57.5	231.7	35.7	22.4	12.0	10.8	26.4	185.4	97.2	244.8	68.5	159.7
3	300.5	68.4	85.4	18.8	11.1	10.4	62.1	152.7	54.6	87.3	112.6	265.4

( Ellagawa : 1993 )

DAILY FLOW TABLE

Table

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	410.0	151.0	136.0	35.0	17.0	28.0	17.0	81.0	1059.0	857.0	75.0	83.0
2	450.0	191.0	90.0	32.0	17.0	70.0	15.0	139.0	1042.0	770.0	73.0	27.0
3	314.0	222.0	94.0	50.0	16.0	54.0	14.0	78.0	923.0	621.0	29.0	13.0
4	287.0	180.0	140.0	23.0	16.0	33.0	31.0	74.0	844.0	605.0	44.0	11.0
5	238.0	199.0	126.0	27.0	16.0	27.0	28.0	86.0	804.0	451.0	50.0	12.0
6	193.0	145.0	116.0	26.0	16.0	28.0	48.0	59.0	1020.0	209.0	57.0	11.0
7	167.0	322.0	77.0	25.0	32.0	20.0	33.0	58.0	850.0	146.0	66.0	12.0
8	348.0	198.0	75.0	24.0	24.0	16.0	58.0	51.0	845.0	141.0	31.0	10.0
9	466.0	91.0	66.0	24.0	21.0	15.0	37.0	51.0	841.0	59.0	22.0	9.0
10	470.0	116.0	61.0	25.0	16.0	14.0	20.0	34.0	594.0	46.0	17.0	8.0
11	505.0	376.0	64.0	23.0	15.0	37.0	20.0	45.0	454.0	49.0	12.0	8.0
12	638.0	254.0	65.0	23.0	14.0	38.0	32.0	44.0	191.0	37.0	11.0	7.0
13	633.0	541.0	73.0	22.0	14.0	59.0	32.0	47.0	132.0	31.0	17.0	8.0
14	739.0	772.0	72.0	21.0	13.0	94.0	28.0	62.0	136.0	25.0	11.0	8.0
15	761.0	824.0	68.0	24.0	42.0	46.0	36.0	68.0	87.0	27.0	11.0	7.0
16	651.0	698.0	64.0	44.0	27.0	35.0	55.0	66.0	79.0	29.0	11.0	8.0
17	468.0	495.0	55.0	36.0	20.0	24.0	60.0	61.0	66.0	28.0	10.0	15.0
18	186.0	224.0	68.0	17.0	17.0	20.0	52.0	66.0	59.0	20.0	10.0	95.0
19	125.0	146.0	69.0	23.0	20.0	21.0	40.0	69.0	59.0	23.0	10.0	36.0
20	78.0	81.0	69.0	22.0	17.0	27.0	32.0	83.0	47.0	137.0	10.0	174.0
21	71.0	107.0	51.0	20.0	14.0	23.0	39.0	117.0	14.0	404.0	11.0	184.0
22	85.0	209.0	47.0	18.0	13.0	20.0	32.0	117.0	35.0	177.0	10.0	181.0
23	76.0	245.0	51.0	19.0	23.0	20.0	30.0	71.0	32.0	159.0	10.0	69.0
24	71.0	160.0	49.0	18.0	62.0	50.0	38.0	92.0	39.0	227.0	9.0	34.0
25	42.0	136.0	42.0	21.0	34.0	53.0	87.0	165.0	269.0	264.0	9.0	31.0
26	65.0	210.0	38.0	22.0	21.0	31.0	160.0	352.0	288.0	199.0	12.0	17.0
27	65.0	375.0	25.0	38.0	21.0	57.0	147.0	529.0	250.0	137.0	55.0	46.0
28	75.0	320.0	33.0	28.0	45.0	82.0	86.0	681.0	436.0	57.0	47.0	57.0
29	123.0	134.0	33.0	21.0	35.0	36.0	224.0	833.0	701.0	37.0	52.0	274.0
30	76.0	84.0	56.0	20.0	25.0	25.0	160.0	867.0	838.0	29.0	40.0	271.0
31	96.0		40.0	18.0	20.0	20.0		998.0	30.0	66.0		
TOTAL	8982.0	8197.0	2113.0	780.0	623.0	1123.0	1691.0	6044.0	13038.0	6032.0	898.0	1726.0
AVE.	289.7	273.2	68.2	25.2	22.3	36.2	56.4	195.0	434.6	194.6	28.0	57.5
ANN.AVE.												140.403
ANN.AVE.												
1	341.8	188.6	117.2	29.6	16.4	42.4	21.0	91.6	934.4	660.8	54.2	29.2
2	328.8	174.4	79.0	24.8	21.8	18.6	39.2	50.6	830.8	120.2	38.6	10.0
3	655.2	553.4	68.4	22.6	19.6	54.8	29.6	53.2	200.0	34.0	12.4	7.6
4	301.6	328.8	65.0	30.4	20.2	25.4	47.8	69.0	62.0	47.4	10.2	65.6
5	69.0	169.6	48.0	19.2	29.2	33.2	45.2	112.4	77.8	246.2	9.8	99.8
6	83.3	224.6	37.5	24.5	29.0	41.8	155.4	693.3	502.6	81.5	45.3	133.0
1	335.3	181.5	98.1	27.2	19.1	30.5	30.1	71.1	882.6	390.5	46.4	19.6
2	478.4	441.1	66.7	26.5	19.9	40.1	38.7	61.1	131.0	40.7	11.3	36.6
3	76.8	197.1	42.3	22.1	29.1	37.9	100.3	429.3	290.2	156.4	29.2	116.4

MEAN MONTHLY DISCHARGE(1.4)

between Putupaula & Ellagawa(1949-86)  
between Ellagawa & Millakanda(1950-79)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1949:50	Putupau	445.0	262.0	130.0	81.0	108.0	93.0	124.0	203.0	125.0	160.0	283.0
	Ellagaw	219.4	153.5	82.7	43.1	39.7	44.2	65.3	131.1	91.9	95.1	155.9
	Millakan											
1950:51	Putupau	450.0	158.0	79.0	185.0	87.0	106.0	189.0	876.0	442.0	71.0	225.0
	Ellagaw	208.6	104.9	53.1	64.8	36.1	48.2	95.6	356.1	184.0	42.7	135.0
	Millakan	115.3	45.0	11.1	41.7	18.9	20.1		61.3	207.2	16.1	58.0
1951:52	Putupau	382.0	415.0	96.0	170.0	114.0	118.0	269.0	423.0	117.0	115.0	115.0
	Ellagaw	214.3	201.5	59.3	51.6	34.1	41.5	133.4	275.2	93.9	76.8	66.7
	Millakan	86.3	95.7	26.0	33.9	23.8	22.9	65.9	93.4	20.3	19.4	14.6
1952:53	Putupau	498.0	282.0	179.0	134.0	79.0	214.0	220.0	110.0	489.0	174.0	155.0
	Ellagaw	215.3	152.1	90.0	48.1	30.3	69.9	104.2	70.6	186.0	83.5	97.3
	Millakan	109.9	74.8	44.0	33.4	19.6	60.7	61.7	18.1	133.9	45.3	36.8
1953:54	Putupau	498.0	252.0	162.0	166.0	133.0	233.0	356.0	324.0	109.0	173.0	151.0
	Ellagaw	237.0	135.6	93.6	62.4	50.6	101.7	264.6	173.6	80.6	113.6	82.2
	Millakan	140.9	65.1	40.2	48.2	34.6	55.0	78.3	194.4	38.8	41.9	41.7
1954:55	Putupau	529.0	219.0	291.0	159.0	222.0	222.0	210.0	598.0	339.0	93.0	332.0
	Ellagaw	275.1	140.2	137.1	75.8	98.2	89.7	124.2	345.4	165.8	54.8	156.4
	Millakan	133.9	47.6	73.3	32.8	52.7	66.8	49.7	155.3	87.9	17.3	72.2
1955:56	Putupau	453.0	458.0	169.0	114.0	84.0	163.0	171.0	588.0	99.0	149.0	291.0
	Ellagaw	199.7	207.7	85.8	42.2	27.7	61.4	85.9	269.8	65.1	85.6	172.3
	Millakan	100.0	111.2	39.7	21.3	10.9	34.5		105.0	28.0	41.4	74.9
1956:57	Putupau	469.0	420.0	205.0	90.0	114.0	111.0	171.0	707.0	357.0	109.0	67.0
	Ellagaw	172.2	186.7	74.8	27.9	42.2	50.6	73.7	231.2	141.4	57.7	29.0
	Millakan	104.9	108.1	53.8	14.6	20.6	19.8	41.1	148.2	76.9	23.8	13.2
1957:58	Putupau	175.0	502.0	513.0	232.0	188.0	227.0	202.0	457.0	160.0	220.0	104.0
	Ellagaw	74.7	193.9	186.3	86.3	74.9	90.4	74.1	239.6	63.0	101.5	48.1
	Millakan	46.0	134.0	122.5	52.2	48.0	56.7	56.0	139.4	41.6	56.5	21.0
1958:59	Putupau	364.0	291.0	248.0	103.0	127.0	83.0	245.0	866.0	313.0	207.0	524.0
	Ellagaw	179.8	130.0	87.3	38.2	51.6	26.9	94.3	307.0	167.8	117.3	190.8
	Millakan	123.2	77.2	87.1	24.1	22.0	14.4	64.4	178.5	71.1	74.4	158.8
1959:60	Putupau	248.0	328.0	215.0	138.0	199.0	102.0	207.0	203.0	378.0	88.0	220.0
	Ellagaw	127.4	137.1	95.8	61.7	84.3	50.6	97.0	118.8	137.1	46.3	125.7
	Millakan	80.8	84.9	63.8	37.7	61.8	35.3	52.3	43.2	82.1	24.1	57.2

MEAN MONTHLY DISCHARGE (2/4)

between Putupaula & Ellagawa (1949-86)  
between Ellagawa & Millakanda (1950-79)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1950/51	Putupau	149.0	112.0	82.0	62.0	84.0	153.0	293.0	212.0	244.0	353.0	534.0
	Ellagaw	82.6	41.0	32.3	23.4	39.8	64.7	156.4	110.5	122.8	182.5	157.1
	Millakan	48.9	31.8	23.8	13.3	38.2	36.7	85.0	68.4	68.6	95.7	104.3
1961/62	Putupau	309.0	203.0	114.0	99.0	116.0	168.0	466.0	205.0	151.0	164.0	298.0
	Ellagaw	152.6	97.0	48.2	37.8	46.3	84.3	216.4	110.9	84.6	74.0	138.6
	Millakan	104.7	99.6	29.9	17.7	29.3	41.3	159.8	50.7	44.7	43.3	84.9
1962/63	Putupau	335.0	147.0	146.0	142.0	145.0	247.0	355.0	254.0	385.0	288.0	434.0
	Ellagaw	159.7	78.5	64.3	64.1	69.5	120.4	124.9	134.7	170.3	148.2	183.7
	Millakan	98.4	41.1	50.0	40.6	34.2	59.4	105.7	79.5	105.8	85.2	145.5
1963/64	Putupau	545.0	264.0	119.0	98.0	152.0	173.0	452.0	233.0	415.0	227.0	541.0
	Ellagaw	216.2	123.7	48.6	34.3	76.4	89.7	196.5	122.9	197.2	114.0	163.8
	Millakan	174.4	82.7	42.5	18.1	36.4	44.4	157.3	76.4	138.6	61.7	117.6
1964/65	Putupau	275.0	107.0	96.0	94.0	102.0	159.0	488.0	207.0	93.0	348.0	274.0
	Ellagaw	126.1	42.9	28.6	28.3	41.4	86.4	224.4	128.3	40.0	174.3	141.4
	Millakan	73.9	28.7	19.3	14.4	20.7	47.1	160.1	71.4	19.0	98.3	102.0
1965/66	Putupau	461.0	241.0	133.0	107.0	141.0	259.0	198.0	121.0	132.0	152.0	301.0
	Ellagaw	196.7	116.1	68.7	42.5	64.2	131.9	86.0	58.7	61.8	66.0	155.5
	Millakan	141.5	76.9	43.2	30.3	39.5	82.4	63.6	30.4	33.9	44.8	119.9
1966/67	Putupau	529.0	161.0	110.0	95.0	140.0	128.0		339.0	219.0	210.0	210.0
	Ellagaw	244.0	76.7	47.3	33.3	60.9	47.2	80.6	167.5	115.5	107.7	80.1
	Millakan	147.6	46.3	35.3	21.0	44.5	40.5	70.1	96.6	66.9	68.5	64.7
1967/68	Putupau	490.0	194.0	140.0	88.0	113.0	180.0	240.0	479.0	465.0	158.0	285.0
	Ellagaw	224.5	109.3	73.7	28.4	45.0	81.4	103.3	223.5	204.0	99.3	142.0
	Millakan	179.6	57.9	33.9	13.3	21.8	66.2	88.4	135.9	157.2		94.8
1968/69	Putupau	268.0	182.0	103.0	94.0	93.0	173.0	650.0	421.0	103.0	123.0	257.0
	Ellagaw	140.2	128.8	32.0	18.8	28.7	85.7	274.8	204.1	58.5	56.5	112.4
	Millakan	70.6	49.6	26.1	9.6	14.3	38.5	256.2	120.3	26.2	29.7	73.6
1969/70	Putupau	338.0	299.0	206.0	117.0	135.0	265.0	269.0	284.0	285.0	233.0	140.0
	Ellagaw	169.6	150.4	101.2	58.0	58.6	127.5	109.7	139.8	147.8	131.3	97.9
	Millakan	91.2	127.5	80.8	28.5	33.1	78.8	71.5	88.1	88.8	77.4	53.8

MEAN MONTHLY DISCHARGE (3.4)

between Putupaula & Ellagawa (1949-86)  
between Ellagawa & Millakanda (1950-79)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1970://71	Putupau 435.0	Putupau 229.0	Putupau 173.0	Putupau 169.0	Putupau 120.0	Putupau 133.0	Putupau 263.0	Putupau 340.0	Putupau 255.0	Putupau 280.0	Putupau 352.0	Putupau 399.0
	Ellagaw 260.1	Ellagaw 132.7	Ellagaw 70.7	Ellagaw 60.7	Ellagaw 45.2	Ellagaw 66.0	Ellagaw 148.5	Ellagaw 187.9	Ellagaw 172.3	Ellagaw 159.8	Ellagaw 231.8	Ellagaw 308.9
	Millakan 131.0	Millakan 68.0	Millakan 50.6	Millakan 41.8	Millakan 23.3	Millakan 37.4	Millakan 81.0	Millakan 99.5	Millakan 81.9	Millakan 107.1	Millakan 93.2	Millakan 137.5
1971://72	Putupau 455.0	Putupau 347.0	Putupau 227.0	Putupau 94.0	Putupau 124.0	Putupau 127.0	Putupau 94.0	Putupau 370.0	Putupau 228.0	Putupau 125.0	Putupau 160.0	Putupau 290.0
	Ellagaw 259.3	Ellagaw 189.0	Ellagaw 116.0	Ellagaw 99.1	Ellagaw 22.3	Ellagaw 18.9	Ellagaw 84.6	Ellagaw 332.3	Ellagaw 165.1	Ellagaw 117.5	Ellagaw 108.7	Ellagaw 222.9
	Millakan 172.6	Millakan 114.2	Millakan 73.5	Millakan 25.9	Millakan 17.8	Millakan 30.9	Millakan 52.3	Millakan 161.3	Millakan 128.5	Millakan 52.9	Millakan 59.5	Millakan 118.6
1972://73	Putupau 263.0	Putupau 272.0	Putupau 111.0	Putupau 142.0	Putupau 121.0	Putupau 174.0	Putupau 272.0	Putupau 138.0	Putupau 367.0	Putupau 238.0	Putupau 246.0	Putupau 85.0
	Ellagaw 236.4	Ellagaw 211.7	Ellagaw 53.9	Ellagaw 19.9	Ellagaw -	Ellagaw 62.9	Ellagaw 155.7	Ellagaw 106.5	Ellagaw 189.2	Ellagaw 116.1	Ellagaw 135.2	Ellagaw 42.6
	Millakan 112.5	Millakan 138.8	Millakan 25.5	Millakan 13.7	Millakan 20.3	Millakan 48.4	Millakan 82.7	Millakan 68.4	Millakan 126.8	Millakan 81.6	Millakan 76.0	Millakan 21.4
1973://74	Putupau 264.0	Putupau 308.0	Putupau 200.0	Putupau 103.0	Putupau 106.0	Putupau 123.0	Putupau 348.0	Putupau 468.0	Putupau 426.0	Putupau 468.0	Putupau 296.0	Putupau 441.0
	Ellagaw 132.8	Ellagaw 138.2	Ellagaw 109.8	Ellagaw 61.3	Ellagaw 27.5	Ellagaw 46.8	Ellagaw 201.9	Ellagaw 210.3	Ellagaw 238.7	Ellagaw 306.6	Ellagaw 161.3	Ellagaw 257.9
	Millakan 101.1	Millakan 103.1	Millakan 89.6	Millakan 20.3	Millakan 16.5	Millakan 36.4	Millakan 125.4	Millakan 168.2	Millakan 145.7	Millakan 171.6	Millakan 82.4	Millakan 143.1
1974://75	Putupau 262.0	Putupau 85.0	Putupau 146.0	Putupau 104.0	Putupau 96.0	Putupau 171.0	Putupau 268.0	Putupau 516.0	Putupau 475.0	Putupau 134.0	Putupau 204.0	Putupau 337.0
	Ellagaw 188.4	Ellagaw 45.7	Ellagaw 88.7	Ellagaw 37.5	Ellagaw 30.8	Ellagaw 70.1	Ellagaw 102.4	Ellagaw 342.1	Ellagaw 302.8	Ellagaw 90.9	Ellagaw 136.7	Ellagaw 212.4
	Millakan 75.4	Millakan 21.5	Millakan 37.5	Millakan 21.2	Millakan 21.9	Millakan 52.8	Millakan 94.7	Millakan 201.9	Millakan 120.5	Millakan 36.2	Millakan 63.8	Millakan 100.8
1975://76	Putupau 422.0	Putupau 737.0	Putupau 235.0	Putupau 75.0	Putupau 48.0	Putupau 60.0	Putupau 210.0	Putupau 136.0	Putupau 93.0	Putupau 169.0	Putupau 184.0	Putupau 86.0
	Ellagaw 270.5	Ellagaw 402.2	Ellagaw 121.1	Ellagaw 43.4	Ellagaw 27.4	Ellagaw 27.2	Ellagaw 123.4	Ellagaw 110.5	Ellagaw 52.8	Ellagaw 99.7	Ellagaw 91.2	Ellagaw 42.6
	Millakan 137.3	Millakan 235.4	Millakan 84.4	Millakan 29.7	Millakan 11.4	Millakan 21.4	Millakan 86.9	Millakan 92.5	Millakan 39.5	Millakan 58.9	Millakan 64.1	Millakan 31.1
1976://77	Putupau 258.0	Putupau 332.0	Putupau 337.0	Putupau 58.0	Putupau 48.0	Putupau 109.0	Putupau 156.0	Putupau 510.0	Putupau 447.0	Putupau 32.0	Putupau 99.0	Putupau 80.0
	Ellagaw 120.8	Ellagaw 152.2	Ellagaw 146.2	Ellagaw 31.2	Ellagaw 22.7	Ellagaw 42.0	Ellagaw 77.8	Ellagaw 214.8	Ellagaw 229.6	Ellagaw 52.9	Ellagaw 56.3	Ellagaw 42.8
	Millakan 98.2	Millakan 114.5	Millakan 118.6	Millakan 84.1	Millakan 27.4	Millakan 47.0	Millakan 55.6	Millakan 209.8	Millakan 156.5	Millakan 38.8	Millakan 46.8	Millakan 32.4
1977://78	Putupau 409.0	Putupau 267.0	Putupau 181.0	Putupau 122.0	Putupau 88.0	Putupau 93.0	Putupau 95.0	Putupau 519.0	Putupau 193.0	Putupau 178.0	Putupau 160.0	Putupau 110.0
	Ellagaw 217.0	Ellagaw 150.6	Ellagaw 99.7	Ellagaw 61.6	Ellagaw 57.8	Ellagaw 42.6	Ellagaw 48.4	Ellagaw 396.3	Ellagaw 114.3	Ellagaw 115.0	Ellagaw 103.5	Ellagaw 98.2
	Millakan 151.2	Millakan 107.7	Millakan 80.7	Millakan 49.5	Millakan 45.7	Millakan 49.4	Millakan 54.3	Millakan 215.0	Millakan 81.4	Millakan 54.7	Millakan 35.7	Millakan 44.3
1978://79	Putupau 309.0	Putupau 455.0	Putupau 109.0	Putupau 52.0	Putupau 70.0	Putupau 46.0	Putupau 120.0	Putupau 222.0	Putupau 242.0	Putupau 227.0	Putupau 95.0	Putupau 391.0
	Ellagaw 174.3	Ellagaw 239.6	Ellagaw 69.9	Ellagaw 26.8	Ellagaw 36.2	Ellagaw 18.1	Ellagaw 55.2	Ellagaw 121.9	Ellagaw 129.5	Ellagaw 123.2	Ellagaw 31.5	Ellagaw 243.2
	Millakan 121.6	Millakan 188.5	Millakan 41.3	Millakan 35.5	Millakan 42.0	Millakan 25.2	Millakan 55.4	Millakan 91.5	Millakan 101.5	Millakan 96.5	Millakan 23.5	Millakan 167.5
1979://80	Putupau 335.0	Putupau 382.0	Putupau 266.0	Putupau -	Putupau -	Putupau -	Putupau -	Putupau -	Putupau -	Putupau -	Putupau -	Putupau -
	Ellagaw 215.3	Ellagaw 231.4	Ellagaw 137.4	Ellagaw 30.6	Ellagaw 17.2	Ellagaw 20.1	Ellagaw 98.2	Ellagaw 92.4	Ellagaw 159.8	Ellagaw 125.9	Ellagaw 97.9	Ellagaw 66.3
	Millakanda -	Millakanda -	Millakanda -	Millakanda -	Millakanda -	Millakanda -	Millakanda -	Millakanda -	Millakanda -	Millakanda -	Millakanda -	Millakanda -
1980://81	Putupau -	Putupau 357.0	Putupau 123.0	Putupau 124.0	Putupau 44.0	Putupau 51.0	Putupau 172.0	Putupau 324.0	Putupau 381.0	Putupau 123.0	Putupau 70.0	Putupau 297.0
	Ellagaw 149.0	Ellagaw 181.0	Ellagaw 82.7	Ellagaw 76.0	Ellagaw 30.2	Ellagaw 32.7	Ellagaw 86.0	Ellagaw 133.4	Ellagaw 242.4	Ellagaw 99.4	Ellagaw 57.7	Ellagaw 239.2
	Millakanda -	Millakanda -	Millakanda -	Millakanda -	Millakanda -	Millakanda -	Millakanda -	Millakanda -	Millakanda -	Millakanda -	Millakanda -	Millakanda -



MEAN MONTHLY DISCHARGE(4/4)

between Putupau & Ellagawa(1949-86)  
between Ellagawa & Millakanda(1950-79)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1981/82												
Putupau	174.0	312.0	159.0	43.0	31.0	70.0	166.0	297.0	589.0	216.0	190.0	71.0
Ellagaw	111.7	237.9	96.0	32.3	15.5	46.8	112.9	238.7	-	174.0	148.5	53.3
Millakanda												
1982/83												
Putupau	408.0	490.0	186.0	34.0	29.0	29.0	50.0	138.0	198.0	119.0	130.0	356.0
Ellagaw	250.1	329.5	102.2	22.4	13.1	18.0	13.5	80.5	141.7	79.8	93.9	215.8
Millakanda												
1983/84												
Putupau	98.0	-	-	-	-	-	-	-	346.0	399.0	44.0	100.0
Ellagaw	58.8	144.2	182.2	146.0	89.5	129.6	331.5	263.1	246.8	374.0	40.2	86.2
Millakanda												
1984/85												
Putupau	207.0	345.0	98.0	121.0	104.0	117.0	114.0	326.0	692.0	201.0	232.0	100.0
Ellagaw	120.3	199.1	64.7	65.6	50.8	72.7	64.2	231.5	610.0	160.0	118.0	52.9
Millakanda												
1985/86												
Putupau	409.0	335.0	261.0	95.0	103.0	104.0	-	-	-	-	-	-
Ellagaw	345.6	198.9	160.9	72.0	82.2	53.0	120.6	147.5	63.8	-	-	-
Millakanda												

MONTHLY BASIN RAINFALL

Putupaula and Ellagawa (1965-93)

		unit:mm											
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1965/66	Putupaula	487	429	385	184	65	309	502	167	218	180	264	612
1965/66	Ellagawa	475	406	330	183	88	318	497	157	234	189	271	803
1966/67	Putupaula	574	306	239	196	127	285	260	354	458	331	288	289
1966/67	Ellagawa	505	358	260	183	118	249	276	357	529	313	281	730
1967/68	Putupaula	795	461	245	189	82	228	291	374	673	472	184	448
1967/68	Ellagawa	780	510	239	183	84	227	301	386	712	505	260	460
1968/69	Putupaula	408	268	264	79	133	133	368	1036	351	326	307	257
1968/69	Ellagawa	439	290	287	82	134	116	363	489	403	113	271	291
1969/70	Putupaula	518	314	473	186	184	315	425	366	437	374	281	292
1969/70	Ellagawa	686	265	252	140	180	304	423	303	419	385	328	283
1970/71	Putupaula	554	383	177	209	156	226	450	438	397	312	424	717
1970/71	Ellagawa	584	363	175	183	164	217	438	433	412	347	436	770
1971/72	Putupaula	499	393	244	102	49	177	332	697	419	235	208	556
1971/72	Ellagawa	423	357	238	87	48	153	320	577	363	300	226	566
1972/73	Putupaula	531	420	158	59	116	395	327	344	498	319	254	132
1972/73	Ellagawa	580	442	147	67	122	351	324	300	461	248	284	123
1972/73	Putupaula	531	420	158	59	116	395	327	344	499	319	254	132
1972/73	Ellagawa	580	442	147	67	122	351	324	300	461	248	284	123
1972/73	Putupaula	531	420	158	59	116	395	327	344	499	319	254	132
1972/73	Ellagawa	580	442	147	67	122	351	324	300	461	248	284	123
1972/73	Putupaula	531	420	158	59	116	395	327	344	499	319	254	132
1972/73	Ellagawa	580	442	147	67	122	351	324	300	461	248	284	123
1973/74	Putupaula	458	329	256	82	185	189	557	508	443	561	214	619
1973/74	Ellagawa	369	303	314	132	165	185	529	533	495	700	234	647
1973/74	Putupaula	458	329	256	82	185	189	557	508	443	561	214	619
1973/74	Ellagawa	369	303	314	132	165	185	529	533	495	700	234	647
1974/75	Putupaula	161	109	294	99	158	261	383	614	455	167	353	338
1974/75	Ellagawa	170	126	302	85	157	276	393	574	504	153	390	316
1975/76	Putupaula	521	666	257	68	96	39	421	257	172	228	267	93
1975/76	Ellagawa	455	607	209	60	51	204	406	203	153	224	249	142
1976/77	Putupaula	387	463	415	32	149	265	347	703	421	83	211	216
1976/77	Ellagawa	497	485	472	29	139	251	391	571	415	123	212	199
1977/78	Putupaula	546	389	266	184	184	232	250	821	257	213	255	362
1977/78	Ellagawa	572	404	259	152	184	218	247	802	226	238	265	359
1978/79	Putupaula	372	555	212	73	178	134	293	401	431	315	71	654
1978/79	Ellagawa	367	510	182	67	188	135	289	353	411	309	81	587
1979/80	Putupaula												
1979/80	Ellagawa	489	467	256	25	34	204	425	373	271	274	253	244
1980/81	Putupaula		513	234	135	104	197	295	381	353	186	159	220
1980/81	Ellagawa	324	467	224	125	99	216	294	319	363	242	148	410
1981/82	Putupaula	290	482	184	44	31	273	472	551	785	1035	252	228
1981/82	Ellagawa	287	449	147	41	276	261	663	624	683	971	226	219
1982/83	Putupaula	546	597	122	48	44	55	121	306	297	208	299	447
1982/83	Ellagawa	535	610	150	52	51	72	122	334	282	202	259	393
1983/84	Putupaula												
1983/84	Ellagawa	243	344	580	341	285	378	489	394	273	359	574	248
1984/85	Putupaula	284	435	127	212	170	250	161	494	678	197	198	265
1984/85	Ellagawa	637	430	148	221	164	284	169	543	703	187	205	270
1985/86	Putupaula	531	340	347	130	176	185	406	227	164	113	269	454
1985/86	Ellagawa	557	332	335	142	186	175	390	220	208	158	308	553
1986/87	Putupaula	478	231	217	135	26	106	248	277	234	10	468	334
1986/87	Ellagawa	411	223	202	133	31	134	270	316	220	13	450	262
1987/88	Putupaula	535	369	121	99	237	275	337	415	386	316	464	538
1987/88	Ellagawa	507	416	147	123	279	310	419	408	404	344	464	519
1988/89	Putupaula	105	341	182	57	10	115	244	485	532	488	213	368
1988/89	Ellagawa	144	355	193	57	7	140	223	513	576	536	212	356
1989/90	Putupaula	529	339	146	92	108	234	299	530	297	211	68	46
1989/90	Ellagawa	551.83	318.89	158.58	108.36	128.79	237.68	326.20	601.45	360.25	345.85	79.50	116.27
1990/91	Putupaula	366	428	159	288	101	199	301	464	830	375	278	168
1990/91	Ellagawa	327.23	521.68	171.76	218.82	81.98	224.51	370.56	432.53	775.90	419.90	419.81	340.59
1991/92	Putupaula	477	344	148	90	10	21	307	486	405	399	288	490
1991/92	Ellagawa	417.35	417.50	170.28	122.70	16.73	25.79	192.89	411.23	341.67	372.91	353.88	396.95
1992/93	Putupaula	488	554	144	28	92	153	336	728	617	253	159	262
1992/93	Ellagawa	391.84	458.58	122.76	35.22	109.41	153.33	312.20	643.62	576.87	205.58	130.29	194.12

HOURLY WATER LEVEL AT PUTUPAULA & COLOMBO PORT

February 1987

Date	Time	Putupaula : m.SFG										Colombo Port : m.MSL												
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	Putupaula	0.21	0.27	0.37	0.46	0.53	0.52	0.49	0.43	0.37	0.30	0.26	0.18	0.15	0.40	0.46	0.41	0.37	0.32	0.27	0.21	0.18	0.15	0.15
1	Colombo Port	0.10	0.26	0.38	0.43	0.37	0.24	0.06	-0.09	-0.27	-0.32	-0.29	-0.21	-0.06	0.09	0.24	0.31	0.31	0.23	0.09	-0.07	-0.20	-0.26	-0.12
2	Putupaula	0.21	0.37	0.46	0.52	0.49	0.46	0.43	0.37	0.29	0.21	0.12	0.06	0.02	0.18	0.24	0.34	0.52	0.50	0.44	0.40	0.34	0.24	0.21
2	Colombo Port	0.02	0.16	0.30	0.37	0.37	0.27	0.12	-0.04	-0.21	-0.29	-0.29	-0.24	-0.11	0.07	0.23	0.34	0.35	0.28	0.15	0.00	-0.11	0.07	-0.07
3	Putupaula	0.18	0.21	0.49	0.40	0.49	0.52	0.46	0.40	0.37	0.24	0.15	0.06	0.02	0.09	0.23	0.34	0.46	0.44	0.41	0.34	0.27	0.21	0.15
3	Colombo Port	0.04	0.15	0.29	0.38	0.41	0.35	0.22	0.06	-0.13	-0.25	-0.31	-0.26	-0.16	-0.04	0.11	0.24	0.31	0.30	0.25	0.15	0.03	-0.11	-0.14
4	Putupaula	0.15	0.18	0.24	0.34	0.40	0.52	0.38	0.38	0.49	0.26	0.20	0.15	0.15	0.15	0.24	0.34	0.40	0.43	0.40	0.37	0.34	0.27	0.23
4	Colombo Port	-0.08	0.02	0.14	0.26	0.31	0.29	0.20	0.07	-0.09	-0.22	-0.28	-0.28	-0.21	-0.10	0.04	0.19	0.27	0.29	0.28	0.23	0.14	0.03	-0.06
5	Putupaula	0.20	0.18	0.21	0.29	0.35	0.37	0.37	0.34	0.27	0.18	0.12	0.06	0.02	0.30	0.40	0.37	0.29	0.35	0.34	0.32	0.29	0.24	0.20
5	Colombo Port	-0.04	0.04	0.11	0.20	0.26	0.26	0.20	0.10	-0.01	-0.12	-0.20	-0.23	-0.19	-0.12	0.00	0.13	0.21	0.25	0.24	0.21	0.16	0.08	-0.01
6	Putupaula	0.17	0.15	0.17	0.21	0.26	0.24	0.24	0.21	0.18	0.14	0.06	0.02	-0.03	-0.03	0.30	0.24	0.18	0.27	0.29	0.29	0.27	0.26	0.21
6	Colombo Port	-0.03	0.00	0.05	0.10	0.16	0.19	0.15	0.07	-0.01	-0.12	-0.20	-0.23	-0.22	-0.17	-0.09	0.00	0.08	0.13	0.15	0.17	0.15	0.11	0.05
7	Putupaula	0.20	0.18	0.18	0.17	0.18	0.20	0.18	0.12	0.06	0.03	0.02	0.00	-0.03	0.03	0.09	0.15	0.20	0.26	0.27	0.29	0.30	0.29	0.27
7	Colombo Port	-0.02	-0.02	-0.01	0.03	0.06	0.07	0.04	0.02	-0.03	-0.09	-0.14	-0.17	-0.19	-0.11	-0.03	0.02	0.09	0.10	0.13	0.15	0.14	0.12	0.11
8	Putupaula	0.26	0.26	0.24	0.23	0.21	0.20	0.18	0.11	0.05	0.02	0.00	-0.03	-0.02	0.03	0.09	0.17	0.20	0.21	0.21	0.23	0.23	0.24	0.29
8	Colombo Port	0.08	0.06	0.05	0.05	0.06	0.04	0.04	0.01	-0.01	-0.04	-0.06	-0.09	-0.09	-0.05	-0.02	0.01	0.04	0.07	0.11	0.14	0.15	0.19	0.21
9	Putupaula	0.30	0.30	0.30	0.29	0.27	0.26	0.24	0.23	0.21	0.21	0.21	0.23	0.24	0.24	0.26	0.27	0.27	0.27	0.27	0.27	0.27	0.30	0.35
9	Colombo Port	0.20	0.18	0.16	0.11	0.06	0.03	0.03	0.01	0.00	0.01	0.03	0.03	0.03	0.02	0.02	0.02	0.01	0.01	0.00	0.04	0.08	0.15	0.20
10	Putupaula	0.37	0.38	0.40	0.37	0.34	0.32	0.30	0.27	0.21	0.20	0.18	0.20	0.20	0.24	0.23	0.21	0.20	0.20	0.18	0.18	0.18	0.20	0.21
10	Colombo Port	0.27	0.27	0.21	0.14	0.06	0.00	-0.05	-0.06	-0.05	-0.01	0.02	0.04	0.05	0.02	-0.01	-0.05	-0.05	-0.10	-0.12	-0.10	-0.03	0.06	0.14

Note: SFG = Staff Gauge

Putupaula Low Flow Probability Calculation

Log Normal Distribution

T (Year)	1-F	S	Y	X (m3/s)
2	0.5	0	1.345207	22.14
3	0.66667	-0.4307	1.287234	19.38
4	0.75	-0.6745	1.254425	17.97
5	0.8	-0.8416	1.23193	17.06
8	0.875	-1.1503	1.190377	15.50
10	0.9	-1.2816	1.172717	14.88
15	0.93333	-1.5011	1.143168	13.91
20	0.95	-1.6449	1.123819	13.30
25	0.96	-1.7507	1.109574	12.87
30	0.96667	-1.8339	1.098369	12.54
40	0.975	-1.96	1.081407	12.06
50	0.98	-2.0537	1.068784	11.72
60	0.98333	-2.1281	1.058782	11.45
80	0.9875	-2.2414	1.043525	11.05
100	0.99	-2.3263	1.032093	10.77
150	0.99333	-2.4748	1.012117	10.28
200	0.995	-2.5758	0.998515	9.97
250	0.996	-2.6521	0.988253	9.73
300	0.99667	-2.7131	0.98004	9.55
400	0.9975	-2.8071	0.967392	9.28
500	0.998	-2.8782	0.957822	9.07
1000	0.999	-3.0902	0.929279	8.50

Putupaula Low Flow Probability Calculation

Gumbel Method

T (Year)	1-F	S	Y	X (m3/s)
2	0.5	0	0.366513	22.13
3	0.66667	-0.4307	-0.09405	19.15
4	0.75	-0.6745	-0.32663	17.65
5	0.8	-0.8416	-0.47589	16.69
8	0.875	-1.1503	-0.7321	15.03
10	0.9	-1.2816	-0.83403	14.37
15	0.93333	-1.5011	-0.99623	13.33
20	0.95	-1.6449	-1.09719	12.67
25	0.96	-1.7507	-1.16903	12.21
30	0.96667	-1.8339	-1.22413	11.85
40	0.975	-1.96	-1.30532	11.33
50	0.98	-2.0537	-1.36406	10.95
60	0.98333	-2.1281	-1.40961	10.65
80	0.9875	-2.2414	-1.47751	10.22
100	0.99	-2.3263	-1.52718	9.89
150	0.99333	-2.4748	-1.61156	9.35
200	0.995	-2.5758	-1.66739	8.99
250	0.996	-2.6521	-1.70864	8.72
300	0.99667	-2.7131	-1.74113	8.51
400	0.9975	-2.8071	-1.79034	8.19
500	0.998	-2.8782	-1.82691	7.96
1000	0.999	-3.0902	-1.93265	7.27

Water Quality of the Kalu Ganga at Kalutara Intake (1967-1968)

Date	Turbidity	pH	E.C.	Salinity	Total Iron	Date	Turbidity	pH	E.C.	Salinity	Total Iron
12/10/67	31.0	7.4	56.0	5.0	0.70	09/01/68	11.2	7.2	58.0	6.0	0.70
13/10	22.0	7.4	65.0	6.0	0.80	10/01	23.6	6.4	43.5	6.0	1.10
14/10	24.0	7.6	65.0	6.0	0.90	11/01	44.0	6.4	33.0	5.0	1.50
15/10	30.0	7.4	72.0	7.0	0.95	12/01	52.6	6.9	36.0	4.0	2.80
16/10	11.0	6.6	28.0	4.0	1.20	13/01	30.6	6.9	40.0	5.0	1.20
17/10	37.0	6.6	34.0	5.0	1.20	14/01	134.6	6.9	40.5	5.0	2.80
18/10	62.0	7.4	40.0	5.0	2.20	15/01					
19/10	50.0	6.6	16.0	4.0	1.60	16/01	144.0	6.9	40.0	5.0	4.80
20/10	37.0	6.2	18.0	4.0	0.90	17/01	40.2	6.9	40.0	5.0	4.80
21/10	52.0	6.6	14.0	4.0	0.70	18/01	22.0	6.9	43.0	5.0	0.95
22/10	61.0	6.6	15.0	4.0	0.90	19/01	24.4	6.9	46.0	5.0	1.10
23/10	59.0	6.6	15.0	4.0	0.95	20/01	37.6	7.2	59.5	5.0	0.90
24/10	29.0	6.8	17.0	6.8	0.60	21/01	66.4	6.9	37.5	4.0	2.40
25/10	61.0	6.0	22.0	5.0	0.70	22/01	44.0	6.8	31.9	4.0	1.40
26/10	51.0	6.0	23.0	5.0	1.00	23/01	39.6	6.9	37.5	4.0	1.20
27/10	56.0	6.0	37.0	5.5	0.75	24/01	44.0	6.8	31.9	4.0	1.40
28/10	58.0	6.2	28.0	5.0	0.65	25/01	16.2	6.9	59.0	5.0	0.50
29/10	61.0	6.0	37.0	5.5	0.75	26/01	24.6	7.2	45.0	5.0	0.80
30/10	60.0	6.4	30.0	5.0	1.30	27/01	16.4	7.2	47.9	5.0	0.50
31/10	40.0	7.2	33.0	5.0	1.10	28/01	74.0	7.2	59.0	6.0	1.20
01/11/67	24.0	6.8	32.0	5.0	1.10	29/01	18.4	7.2	59.0	6.0	0.50
02/11	75.0	6.4	28.0	5.0	1.40	30/01	11.6	6.9	60.0	6.0	0.40
03/11	52.0	6.2	30.0	5.0	1.25	31/01	14.8	6.9	63.0	6.0	0.50
04/11	46.0	6.6	30.0	5.0	1.20	01/02/68	12.2	6.9	70.3	8.0	0.55
05/11	80.0	6.6	19.0	4.0	2.80	02/02	9.2	6.8	48.9	5.0	0.50
06/11	80.0	6.4	26.0	4.0	3.60	03/02	18.5	6.8	50.0	6.0	0.60
07/11	61.0	6.4	23.0	5.0	2.40	04/02					
08/11	75.0	6.6	23.0	5.0	3.20	05/02					
09/11	85.0	6.4	21.0	4.0	2.80	06/02					
10/11	26.0	7.4	22.0	5.0	2.40	07/02					
11/11	38.0	7.4	75.0	5.0	2.80	08/02					
12/11	88.0	7.4	75.0	5.0	2.50	09/02					
13/11						10/02	4.3	6.9	81.0	7.0	0.30
14/11	22.0	6.4	22.0	5.0	1.20	11/02	5.6	6.8	79.5	5.0	0.40
15/11	24.4	6.8	23.0	5.0	1.40	12/02	4.6	6.4	121.0	11.0	0.30
16/11	80.0	6.4	19.0	4.0	4.00	13/02	3.6	6.8	82.0	7.0	0.30
17/11	110.0	6.6	20.0	4.0	3.60	14/02	3.8	6.8	77.5	7.0	0.30
18/11	29.0	6.6	21.0	4.0	1.40	15/02	14.2	6.8	80.0	7.0	0.30
19/11	17.0	6.8	23.0	5.0	1.20	16/02	20.8	6.7	120.0	11.0	0.60
20/11	30.0	6.8	33.0	4.0	1.20	17/02					
21/11	79.5	6.8	32.0	4.0	3.20	18/02	17.6	6.5	70.0	6.0	0.70
22/11	35.0	6.4	20.0	4.0	1.10	19/02	16.6	6.4	57.5	5.0	0.60
23/11	20.5	6.6	21.0	4.0	1.00	20/02	17.8	6.5	99.0	9.0	0.60
24/11	142.0	6.8	20.0	4.5	6.40	21/02	4.8	6.6	170.0	15.0	0.40
25/11	74.6	6.8	25.0	5.0	2.40	22/02	6.2	6.8	82.0	7.0	0.40
26/11	30.0	6.8	29.0	4.0	1.80	23/02	17.6	6.3	84.0	7.0	0.60
27/11	81.4	6.6	16.0	7.0	3.20	24/02	16.2	6.4	95.0	9.0	0.60
28/11	26.0	6.2	36.0	7.0	1.10						
29/11	61.0	6.6	32.5	7.0	1.20						
30/11	14.0	6.4	31.5	7.0	0.65						
01/12/67	6.2	6.4	32.5	7.0	0.60						
02/12	18.5	6.6	37.5	5.0	0.65						
03/12	49.8	6.2	29.0	6.0	0.80						
04/12	68.5	6.6	32.5	6.0	1.40						
05/12	82.0	6.4	32.0	7.0	1.45						
06/12	37.0	6.6	38.0	6.0	1.25						
07/12	52.0	6.2	35.0	7.0	1.20						
08/12	6.8	6.6	41.0	7.0	0.70						
09/12	6.8	6.6	41.0	7.0	0.70						
10/12	29.5	6.6	41.0	7.0	1.15						
11/12											
12/12	26.8	6.8	37.2	6.0	1.60						
13/12	35.8	6.4	39.1	6.0	1.20						
14/12	27.6	6.6	41.0	7.0	1.00						
15/12	23.0	6.6	43.0	7.0	0.70						
16/12	13.9	6.6	39.0	6.0	0.60						
17/12	24.0	6.4	42.0	7.0	1.10						
18/12											
19/12	86.0	6.8	31.0	6.0	3.60						
20/12	48.6	6.4	28.5	5.0	2.20						
21/12	81.5	6.4	29.1	6.0	3.20						
22/12	60.8	6.6	30.2	6.0	2.50						
23/12	29.0	6.2	28.5	5.0	1.30						
24/12	27.2	6.4	28.5	6.0	1.20						
25/12	48.2	6.4	31.0	6.0	1.40						
26/12	37.0	6.4	36.0	7.0	0.60						
27/12	81.0	6.4	33.5	6.0	3.60						

Water Quality (Turbidity in NTU) of the Kulu Ganga at Nalwara Intake (1985-1991)

Date	1985		1986		1987		1988		1989		1990		1991												
	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	
1	16.0					100.0	10.0	20.0	11.0	18.0	16.0	16.0													
2	13.0					100.0	10.0	20.0	11.0	18.0	16.0	16.0													
3	17.0					100.0	11.0	16.0	10.0	16.0	16.0	18.0													
4	11.0					100.0	11.0	10.0	10.0	16.0	16.0	18.0													
5	15.0					100.0	12.0	12.0	11.0	15.0	17.0	35.0													
6	9.0					50.0	2.0	12.0	11.0	15.0	35.0	37.0													
7	12.0					100.0	2.0	12.0	15.0	11.0	40.0	24.0													
8	9.5					10.0	2.0	12.0	15.0	11.0	40.0	24.0													
9						3.0	2.0	10.0	20.0	30.0	33.0	16.0													
10	15.0					3.0	2.0	10.0	20.0	30.0	33.0	16.0													
11	10.0					16.0	25.0																		
12	13.0					8.5																			
13	30.0					8.5																			
14	30.0					8.0																			
15	30.0					35.0																			
16	22.0					8.0																			
17						12.0																			
18						8.0																			
19						12.0																			
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97						30.0																			
98						30.0																			
99						30.0																			
100						30.0																			

Water Quality (Turbidity in NTU) of the Kalu Ganga at Kalutara Intake (1992-1993)

Date	1992												1993												
	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	
1	10.0	4.3	4.3	2.1	4.3	13.0	7.0	14.0	14.0	4.0	20.0	20.0	6.5	3.5	5.5	5.5	6.0	6.0	25.0	8.7	21.0	24.0	30.0	26.0	
2	10.0	4.3	4.3	1.1	3.5	13.0	7.2	15.0	15.0	2.0	41.0	28.0	6.5	3.7	11.0	7.5	32.0	22.0	22.0	29.0	21.0	5.5	67.0	37.0	
3	20.0	4.0	1.2	6.0	50.0	12.5	6.0	12.0	16.0	15.0	38.0	25.0	6.5	3.9	20.0	4.5	30.0	22.0	19.0	17.0	16.0	12.0	65.0	55.0	
4	20.0	8.5	2	4.8	28.0	10.0	5.8	14.0	15.0	12.0	42.0	18.0	6.5	3.4	67.0	4.5	21.0	19.0	16.0	14.0	15.0	14.0	51.0	65.0	
5	10.0	20.0	1.5	3.0	17.0	21.0	28.0	14.0	17.0	20.0	35.0	14.0	6.0	3.0	48.0	4.5	25.0	16.0	13.0	12.0	12.0	20.0	46.0	64.0	
6	6.5	10.0	1.6	2.8	16.0	31.0	14.0	9.0	12.0	24.0	45.0	36.0	5.5	1.8	28.0	4.3	20.0	12.0	12.0	14.0	10.0	5.5	24.0	38.0	
7	6.5	7.0	1.8	2.3	22.0	28.0	18.0	3.0	12.0	14.0	45.0	29.0	6.0	2.6	21.0	4.3	25.0	8.5	11.0	16.0	12.0	7.0	38.0	38.0	
8	5.0	5.0	2.0	2.5	15.0	22.0	18.0	8.5	14.0	14.0	25.0	21.0	5.0	2.3	26.0	4.1	36.0	15.0	15.0	9.5	11.0	10.0	20.0	39.0	
9	5.0	5.5	2.0	2.5	15.0	15.0	14.0	22.0	16.0	15.0	34.0	16.0	5.5	2.3	14.0	3.5	25.0	17.0	17.0	8.5	14.0	22.0	30.0	30.0	
10	9.0	4.5	1.6	2.7	12.0	10.0	13.0	20.0	12.0	15.0	23.0	15.0	5.4	2.5	14.0	3.3	26.0	15.0	8.3	15.0	6.7	12.0	20.0	32.0	
11	8.5	4.0	1.7	2.2	14.0	10.2	4.6	15.0	9.5	9.0	23.0	20.0	5.0	1.5	11.0	15.0	25.0	18.0	12.0	17.0	5.8	14.0	24.0	24.0	
12	33.0	4.0	1.7	2.3	13.0	9.0	32.0	15.0	18.0	11.0	58.0	14.0	5.0	1.9	7.0	4.0	20.0	15.0	11.0	20.0	5.5	30.0	24.0	33.0	
13	21.0	3.8	1.7	2.3	20.0	3.0	36.0	15.0	38.0	13.0	42.0	12.0	4.5	1.9	7.2	4.0	19.0	17.0	15.0	17.0	5.0	5.0	33.0	30.0	
14	21.0	3.8	1.7	2.3	20.0	9.0	20.0	17.0	32.0	22.0	42.0	17.0	5.0	1.9	6.2	2.8	19.0	14.0	14.0	14.0	3.4	5.6	44.0	19.0	
15	11.0	4.2	1.5	2.3	18.0	9.0	16.0	12.0	13.0	26.0	16.0	13.0	4.5	1.8	6.2	2.0	12.0	12.0	14.0	14.0	13.0	5.1	39.0	63.0	
16	11.0	4.2	1.5	2.3	18.0	9.0	16.0	12.0	13.0	26.0	16.0	13.0	4.5	1.8	6.2	2.0	12.0	12.0	14.0	14.0	13.0	5.1	39.0	63.0	
17	4.6	2.5	1.5	2.6	26.0	7.0	24.0	12.0	22.0	24.0	30.0	9.5	4.0	1.9	8.5	5.5	18.0	7.0	15.0	8.0	4.5	16.0	18.0	56.0	
18	4.7	3.5	5.0	15.0	18.0	8.0	24.0	7.5	8.5	9.0	13.0	12.0	7.0	2.0	11.0	8.8	25.0	21.0	10.0	8.2	5.7	12.0	17.0	52.0	
19	4.7	3.5	5.0	15.0	18.0	8.0	24.0	7.5	8.5	9.0	13.0	12.0	7.0	2.0	11.0	8.8	25.0	21.0	10.0	8.2	5.7	12.0	17.0	52.0	
20	4.5	3.1	12.0	16.0	50.0	7.2	12.0	7.5	6.5	8.0	10.0	17.0	6.1	3.6	8.2	20.0	26.0	7.5	10.6	6.0	10.6	6.0	17.0	18.0	30.0
21	6.3	2.7	1.4	1.8	22.0	3.0	12.0	11.0	12.0	20.0	25.0	18.0	3.0	1.7	27.0	3.5	36.0	19.0	18.0	6.0	3.5	8.5	22.0	25.0	
22	3.0	2.6	1.5	1.8	20.0	8.5	10.0	10.0	15.0	20.0	55.0	14.0	3.5	1.8	25.0	3.1	31.0	12.0	15.0	15.0	6.0	3.5	8.5	22.0	25.0
23	7.0	2.4	2.6	17.0	10.0	11.0	8.0	8.0	8.0	3.5	33.0	36.0	7.5	3.1	2.3	8.3	7.0	44.0	7.0	18.0	7.0	7.8	5.5	15.0	58.0
24	4.5	2.5	3.2	20.0	7.5	9.0	10.0	7.5	16.0	8.0	51.0	7.2	3.0	2.3	6.5	9.0	20.0	5.9	20.0	5.0	14.0	52.0	46.0	64.0	
25	5.0	1.5	2.6	17.0	7.5	9.0	8.0	7.2	13.0	8.0	25.0	7.1	3.0	4.0	20.0	8.5	38.0	6.7	30.0	5.4	14.0	24.0	23.0	28.0	
26	5.0	2.6	2.0	20.0	7.0	8.2	9.0	5.0	5.0	13.0	8.0	9.5	3.0	3.0	16.0	24.0	51.0	52.0	20.0	5.3	14.0	40.0	48.0	51.0	
27	8.5	2.3	2.8	17.0	8.2	7.0	7.5	9.6	5.4	26.0	7.5	7.6	3.0	4.0	18.0	48.0	47.0	40.0	17.0	5.0	12.0	35.0	42.0	63.0	
28	5.9	2.3	2.6	12.0	8.2	6.0	5.4	32.0	3.0	31.0	9.0	7.8	3.5	3.5	7.3	15.0	70.0	45.0	18.0	15.0	8.6	14.0	28.0	46.0	
29	5.9	2.3	2.6	12.0	8.2	6.0	5.4	32.0	3.0	31.0	9.0	7.8	3.5	3.5	7.3	15.0	70.0	45.0	18.0	15.0	8.6	14.0	28.0	46.0	
30	4.5	2.2	2.3	12.0	7.5	6.5	15.0	7.0	44.0	8.2	66.0	8.0	3.5	7.0	18.0	60.0	45.0	23.0	14.0	23.0	25.0	64.0	18.0	27.0	
31	4.5	2.0	2.0	13.0	7.0	4.8	18.0	7.5	22.0	15.0	42.0	7.1	6.8	4.1	40.0	16.0	25.0	27.0	25.0	12.0	28.0	40.0	60.0	22.0	40.0
32	4.5	2.0	2.0	13.0	7.0	4.8	18.0	7.5	22.0	15.0	42.0	7.1	6.8	4.1	40.0	16.0	25.0	27.0	25.0	12.0	28.0	40.0	60.0	22.0	40.0
33	4.5	2.0	2.0	13.0	7.0	4.8	18.0	7.5	22.0	15.0	42.0	7.1	6.8	4.1	40.0	16.0	25.0	27.0	25.0	12.0	28.0	40.0	60.0	22.0	40.0
34	4.5	2.0	2.0	13.0	7.0	4.8	18.0	7.5	22.0	15.0	42.0	7.1	6.8	4.1	40.0	16.0	25.0	27.0	25.0	12.0	28.0	40.0	60.0	22.0	40.0
35	4.5	2.0	2.0	13.0	7.0	4.8	18.0	7.5	22.0	15.0	42.0	7.1	6.8	4.1	40.0	16.0	25.0	27.0	25.0	12.0	28.0	40.0	60.0	22.0	40.0
36	4.5	2.0	2.0	13.0	7.0	4.8	18.0	7.5	22.0	15.0	42.0	7.1	6.8	4.1	40.0	16.0	25.0	27.0	25.0	12.0	28.0	40.0	60.0	22.0	40.0
37	4.5	2.0	2.0	13.0	7.0	4.8	18.0	7.5	22.0	15.0	42.0	7.1	6.8	4.1	40.0	16.0	25.0	27.0	25.0	12.0	28.0	40.0	60.0	22.0	40.0
38	4.5	2.0	2.0	13.0	7.0	4.8	18.0	7.5	22.0	15.0	42.0	7.1	6.8	4.1	40.0	16.0	25.0	27.0	25.0	12.0	28.0	40.0	60.0	22.0	40.0
39	4.5	2.0	2.0	13.0	7.0	4.8	18.0	7.5	22.0	15.0	42.0	7.1	6.8	4.1	40.0	16.0	25.0	27.0	25.0	12.0	28.0	40.0	60.0	22.0	40.0
40	4.5	2.0	2.0	13.0	7.0	4.8	18.0	7.5	22.0	15.0	42.0	7.1	6.8	4.1	40.0	16.0	25.0	27.0	25.0	12.0	28.0	40.0	60.0	22.0	40.0
41	4.6	1.8	2.5	45.0	5.8	5.4	10.0	41.0	9.0	18.0	15.0	7.5	4.8	4.8	10.0	55.0	20.0	30.0	30.0	8.5	20.0	27.0	34.0	48.0	
42	4.6	1.8	2.5	45.0	5.8	5.4	10.0	41.0	9.0	18.0	15.0	7.5	4.8	4.8	10.0	55.0	20.0	30.0	30.0	8.5	20.0	27.0	34.0	48.0	
43	4.6	1.8	2.5	45.0	5.8	5.4	10.0	41.0	9.0	18.0	15.0	7.5	4.8	4.8	10.0	55.0	20.0	30.0	30.0	8.5	20.0	27.0	34.0	48.0	
44	4.6	1.8	2.5	45.0	5.8	5.4	10.0	41.0	9.0	18.0	15.0	7.5	4.8	4.8	10.0	55.0	20.0	30.0	30.0	8.5	20.0	27.0	34.0	48.0	
45	4.6	1.8	2.5	45.0	5.8	5.4	10.0	41.0	9.0	18.0	15.0	7.5	4.8	4.8	10.0	55.0	20.0	30.0	30.0	8.5	20.0	27.0	34.0	48.0	
46	4.6	1.8	2.5	45.0	5.8	5.4	10.0	41.0	9.0	18.0	15.0	7.5	4.8	4.8	10.0	55.0	20.0	30.0	30.0	8.5	20.0	27.0	34.0	48.0	
47	4.6	1.8	2.5	45.0	5.8	5.4	10.0	41.0	9.0	18.0	15.0	7.5	4.8	4.8	10.0	55.0	20.0	30.0	30.0	8.5	20.0	27.0	34.0	48.0	
48	4.6	1.8	2.5	45.0	5.8	5.4	10.0	41.0	9.0	18.0	15.0	7.5	4.8	4.8	10.0	55.0	20.0	30.0	30.0	8.5	20.0	27.0	34.0	48.0	
49	4.6	1.8	2.5	45.0	5.8	5.4	10.0	41.0	9.0	18.0	15.0	7.5	4.8	4.8	10.0	55.0	20.0	30.0	30.0	8.5	20.0	27.0	34.0	48.0	
50	4.6	1.8	2.5	45.0	5.8	5.4	10.0	41.0	9.0	18.0	15.0	7.5	4.8	4.8	10.0	55.0	20.0	30.0	30.0	8.5	20.0	27.0	34.0	48.0	
51	4.6	1.8	2.5	45.0	5.8	5.4	10.0	41.0	9.0	18.0	15.0	7.5	4.8	4.8	10.0	55.0	20.0	30.0	30.0	8.5	20.0	27.0	34.0	48.0	
52	4.6	1.8	2.5	45.0	5.8	5.4	10.0	41.0	9.0	18.0	15.0	7.5	4.8	4.8	10.0	55.0	20.0	30.0	30.0	8.5	20.0	27.0	34.0	48.0	
53	4.6	1.8	2.5	45.0	5.8	5.4	10.0	41.0	9.0	18.0	15.0	7.5	4.8	4.8	10.0	55.0	20.0	30.0	30.0	8.5	20.0	27.0	34.0	48.0	
54	4.6	1.8	2.5	45.0	5.8	5.4	10.0	41.0	9.0	18.0	15.0	7.5	4.8	4.8	10.0	55.0	20.0	30.0	30.0	8.5	20.0	27.0	34.0	48.0	
55	4.6	1.8	2.5	45.0	5.8	5.4	10.0	41.0	9.0	18.0	15.0	7.5	4.8	4.8	10.0	55.0	20.0	30.0	30.0	8.5	20.0	27.0	34.0		





## **CHAPTER 9**

### **Soil Investigation Data**



## — Results of Physical and Mechanical Soil Test

Two undisturbed soil block samples were delivered to the Soil Mechanics Laboratory. Tests were carried out to find natural moisture content, specific gravity, grain size distribution, Atterberg Limits and undrained shear strength parameters (unconsolidated, undrained triaxial tests). Sufficient samples were not available to carry out consolidated undrained triaxial tests. The results are as follows:

### Sample No. 1

#### 1. Sampling: (0.74-1.28)m

Type of soil = Lateritic soil with gravel

Natural moisture content	=	12.82%
Specific gravity	=	2.61

#### 2. Sieve Analysis:

Gravel percentage	=	65%
Sand percentage	=	34%
Percentage finer than 0.75 m	=	0.95%

$D_{60}$	=	6.10 mm
$D_{30}$	=	1.60 mm
$D_{10}$	=	0.31 mm
C <sub>x</sub>	=	19.68
C <sub>c</sub>	=	1.35

in Figure B-1

Grading curve is attached

#### 3. Atterberg Limits (on the fraction finer than 0.425 mm)

Liquid Limit	=	23.7%
Plastic Limit	=	16.67%
Plasticity Index	=	7.03%

#### 4. Unconsolidated Undrained Triaxial Test Results:

Specimen size = 38 mm dia x 85 mm height

Method of loading - constant strain at 0.05 in/min.

Dry unit weight	(kg/m <sup>3</sup> )	1,927.2	1,839.39	2,020.8	2,011.88
Moisture content	(%)	12.96	14.18	12.56	12.14
Cell pressure	(kN/m <sup>2</sup> )	50	100	150	200
Deviator stress at Failure	(kN/m <sup>2</sup> )	225.06	170.20	495.24	666.49
Axial stress at Failure	(kN/m <sup>2</sup> )	275.06	270.20	645.24	866.49
Axial strain at Failure	(%)	17.9	13.5	7.5	17.9

Shear strength parameters:

$$C_u = 24 \text{ kN/m}^2$$

$$\phi_u = 35^\circ$$

## Sample No. 2

### 1. Sampling nearby No. 8 Boring: (0.20-0.45) m

Type of soil = Yellowish brown sandy soil

Natural moisture content = 14.28%

Specific gravity = 2.64

### 2. Sieve Analysis:

Gravel percentage = 13%

Sand percentage = 84%

Percentage finer than 0.075 mm = 3.1%

$D_{60} = 0.67 \text{ mm}$

$D_{30} = 0.27 \text{ mm}$

$D_{10} = 0.12 \text{ mm}$

$C_u = 5.58$

$C_u = 0.91$

in Figure B-2

Grading curve is attached

### 3. Atterberg Limit (on the fraction finer than 0.425 mm)

Liquid Limit = 28.6%

Plastic Limit = 23.92%

Plasticity Index = 4.68%

#### 4. Unconsolidated Undrained Triaxial Test Results:

Specimen size = 38 mm dia x 85 mm height

Method of loading - constant strain at 0.05 in/min

Dry unit weight	(kg/m <sup>3</sup> )	1,675.9	1,673.1	1,801.1	1,785.4
Moisture content	(%)	13.86	14.42	13.78	13.82
Cell pressure	(kN/m <sup>2</sup> )	50	100	150	200
Deviator stress at Failure	(kN/m <sup>2</sup> )	202.06	340.60	488.08	144.72
Axial stress at Failure	(kN/m <sup>2</sup> )	252.06	440.60	638.08	344.72
Axial strain at Failure	(%)	10.46	11.95	14.94	4.48

#### Shear Strength Parameters:

$$C_u = 20 \text{ kN/m}^2$$

$$\phi_u = 35\%$$

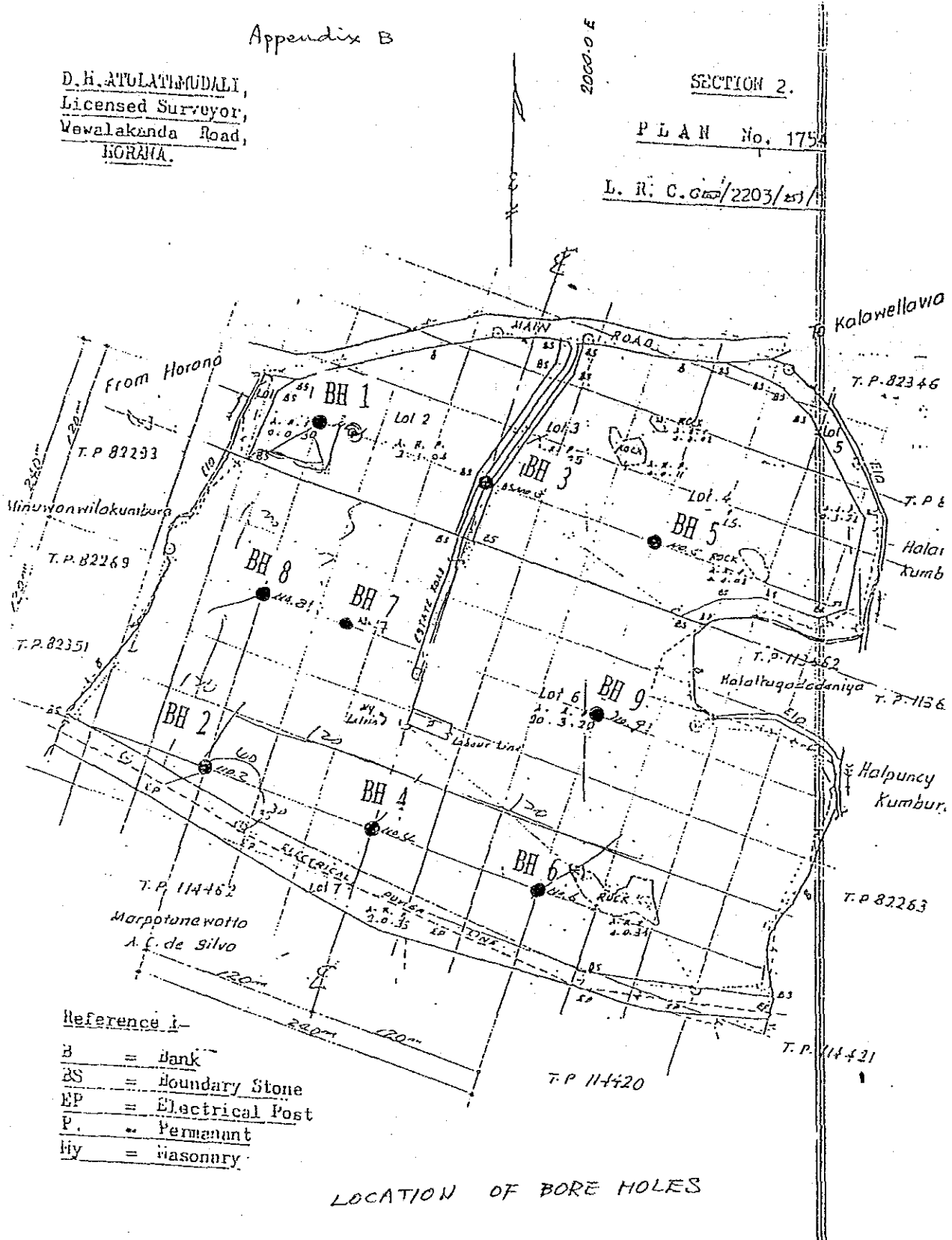
Appendix B

D. H. ATULATHODALI,  
Licensed Surveyor,  
Wewalakanda Road,  
HORANA.

SECTION 2.

PLAN No. 1754

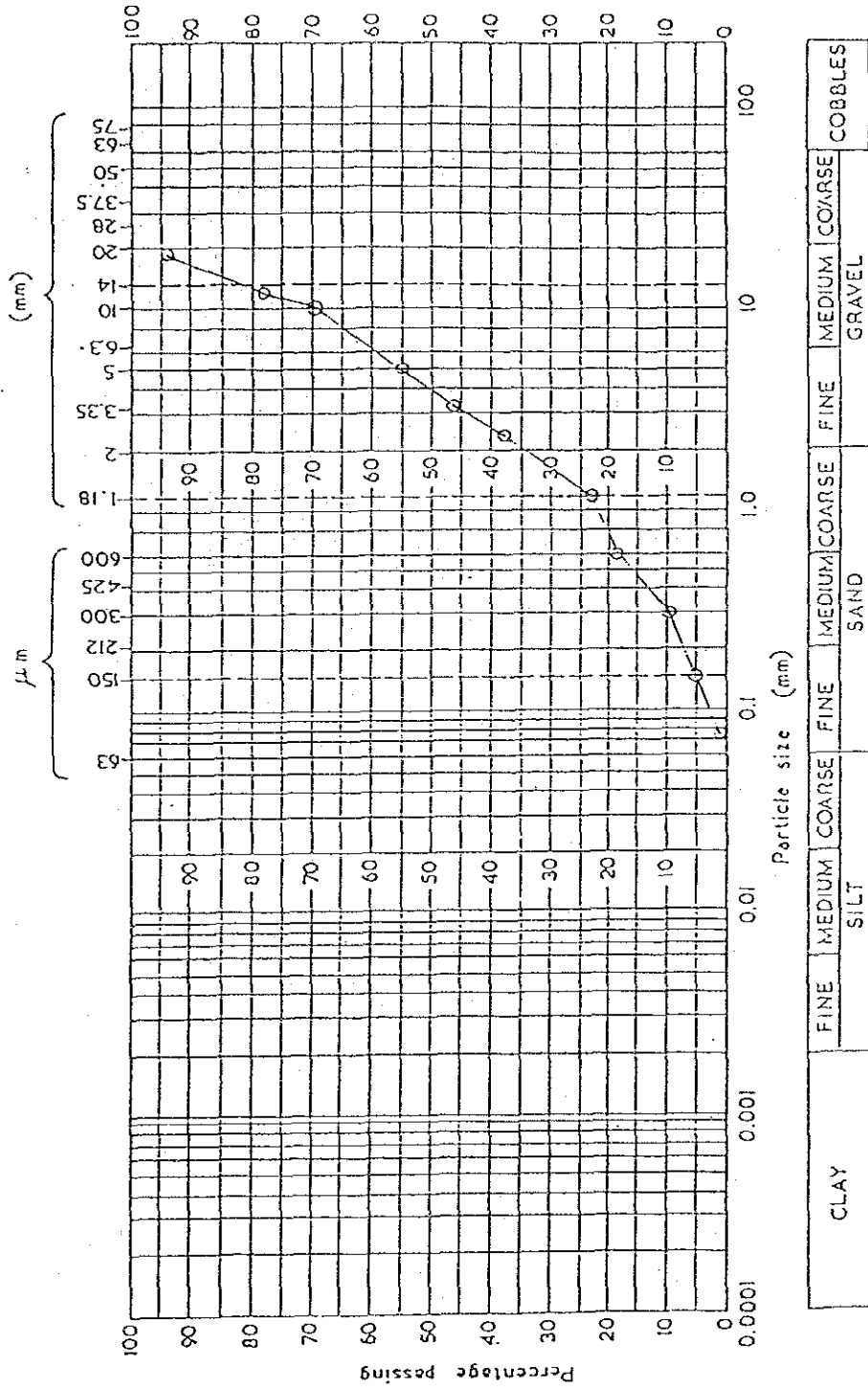
L. R. C. 600/2203/25/1



- Reference i-
- B = Bank
  - BS = Boundary Stone
  - EP = Electrical Post
  - P. = Permanent
  - ty = Masonary

LOCATION OF BORE HOLES

Figure B-2

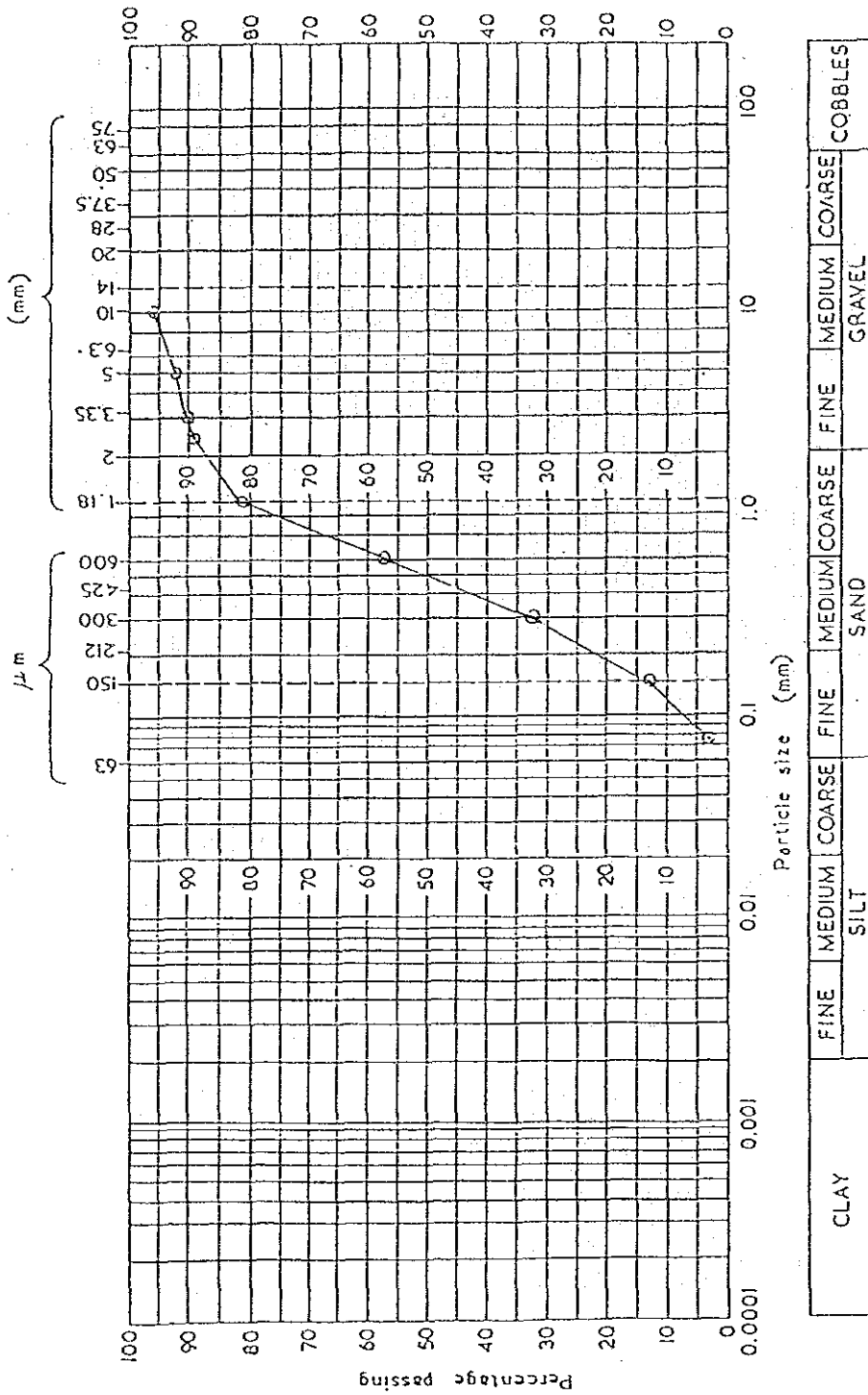


Sample No. 1.

Bore hole No.

Depth of Sample: (0.74 - 1.28) m

Figure B-1



Sample No. 2

L8

Bore hole No.

Depth of Sample: (0.20 - 0.45')



Appendix B

GEOLOGICAL RECORD OF BORING				HOLE No. SH 1	
PROJECT	Greater Colombo Water Supply Scheme		LOCATION	Sallapitiya - Horana	
GROUND ELEVATION		DEPTH OF HOLE	12.55m	ANGLE FROM VERTICAL	0
DIAMETER OF HOLE	3 "	MACHINE	YBM	DATE OF DRILLING	23rd to 25th June '94
CORE RECOVERY		DEPTH TO GROUND WATER LEVEL IN HOLE	3.20m below Ground Level		
DRILLED BY H.M. Weerasinghe			LOGGED BY B.S. Yapa		

ELEVATION (m)	DEPTH (m)	THICKNESS (m)	FIELD OBSERVATION				CORE RECOVERY		STANDARD PENETRATION TEST								
			COLUMN SECTION	SOIL OR ROCK CLASSIFICATION	COLOUR	DESCRIPTION	%	cm	DEPTH (m)	NUMBER OF BLOWS N							
									(N)	0	10	20	30	40	50	60	
	0.61	0.61		SH / GW	Brown	Medium Dense Well Graded Sands/Gravels											
				CL	Reddish Brown	Stiff Sandy Clays + Gravels			1.0	12							
									2.0	15							
									3.0	12							
									4.0	10							
									5.0	07							
	6.00	5.39		CL/ML	Reddish Brown	Medium Stiff Sandy Clays/Clayey Silts			6.0	05							
	7.00	1.00		M/SM	Greyish Brown	Stiff to Hard Clayey Silts/			7.0	14							
					Yellow Brown	Medium Dense to Extremely Dense Silty Sands			8.0	39							
	9.16	2.16		SM/SP	Greyish Brown	Extremely Dense Silty Sands/Poorly Graded Sands + mica + Black Iron Minerals			9.0	50/4cm							
	10.45	1.29							10.0	50/10cm							
	11.85	1.40		Garneti-Ferrous Biotite Gneiss	Greyish Black	Core Recovery = 8.6% R.Q.D. = 0%											
	12.55	0.70		Fine to Medium Moderately Weathered		Core Recovery=25.0% R.Q.D.= 0%											

GEOLOGICAL RECORD OF BORING						HOLE No. BH 2		
PROJECT	Greater Colombo Water Supply Scheme			LOCATION	Ballapitiya - Horana			
GROUND ELEVATION				DEPTH OF HOLE	20.14m		ANGLE FROM VERTICAL	0
DIAMETER OF HOLE	3 "			MACHINE	Joy		DATE OF DRILLING	15th to 17th June 1994
CORE RECOVERY				DEPTH TO GROUND WATER LEVEL IN HOLE	5.65m below ground level			
				DRILLED BY	P.P. Somsapala		LOGGED BY	B.S. Yapa

ELEVATION (m)	DEPTH (m)	THICKNESS (m)	FIELD OBSERVATION				CORE RECOVERY		STANDARD PENETRATION TEST							
			COLUMN SECTION	SOIL OR ROCK CLASSIFICATION	COLOR	DESCRIPTION	%	cm	DEPTH (m)	NUMBER OF BLOWS N						
									(N)	0	10	20	30	40	50	60
	0.58	0.58		SW/GM	Brown	Medium Dense Well Graded Sands/Gravels			1.0	13						
				CL	Reddish Brown	Stiff to Medium Stiff Sandy Clays + Gravels			2.0	13						
					Yellowish Brown				3.0	07						
									4.0	07						
									5.0	04						
									6.0	05						
									7.0	06						
	8.00	7.42		ML	Greyish Brown	Stiff to Hard Clayey Silts + Mica + Black Iron Minerals			8.0	13						
									9.0	22						
									10.0	30						
									11.0	38						
									12.0	29						
	12.75	4.75		ML/SM	Dark Greyish Brown	Hard Clayey Silts / Very Dense Silty Sands + Black Iron Minerals			13.0	34						
					Yellowish Brown				14.0	45						
									15.0	44						
	17.0	4.24		SM	Dark Greyish	Extremely Dense Silty Sands			16.0	39						
	17.94	0.94							17.0	50/3cm						
	18.70	0.76		Garnet-Ferrous Biotite Gneiss	Brown Greyish Black	Core Recovery=51.6% R.O.D.=12.2%										
	20.14	1.44				Core Recovery=17.4% R.O.D.=13.2%										

GEOLOGICAL RECORD OF BORING				HOLE No. BH 3		
PROJECT	Greater Colombo Water Supply Scheme		LOCATION	Bellepitiya - Horana		
GROUND ELEVATION		DEPTH OF HOLE	9.12m	ANGLE FROM VERTICAL	0	
DIAMETER OF HOLE	3 "	MACHINE	Joy	DATE OF DRILLING	23rd & 24th June 1994	
CORE RECOVERY		DEPTH TO GROUND WATER LEVEL IN HOLE	5.25m below ground level			
		DRILLED BY	P.O. Somapala		LOGGED BY	R.S. Yapa

ELEVATION (m)	DEPTH (m)	THICKNESS (m)	FIELD OBSERVATION				CORE RECOVERY		STANDARD PENETRATION TEST								
			COLUMN SECTION	SOIL OR ROCK CLASSIFICATION	COLOUR	DESCRIPTION	%	cm	DEPTH (m)	NUMBER OF BLOWS N							
									(N)	0	10	20	30	40	50	60	
	0.56	0.56		SW/GW	Brown	Medium Dense Well Graded Sands/Gravels											
	1.76	1.20		GW/SW	Reddish Brown	Medium Dense Well Graded Gravels/Well Graded Sands			1.0	11							
	5.72	3.26		CL	Reddish Brown	Stiff Sandy Clays			2.0	09							
	6.50	0.76		ML	Greyish Brown	Very Stiff Clayey Silts			3.0	06							
	7.12	0.52		ML/SM	Greyish Brown	Hard to Extremely Dense Clayey Silts/Silty Sands			4.0	07							
	7.63	0.51		Garnetiferous Biotite Gneiss	Black	Core Recovery = 100% R.Q.D. = 100%			5.0	09							
	9.12	1.49		Fine to coarse Fresh Rock		Core Recovery = 100% R.Q.D. = 98%			6.0	15							
									7.0	50/5cm							

GEOLOGICAL RECORD OF BORING				HOLE No. BH 4		
PROJECT	Greater Colombo Water Supply Scheme		LOCATION	Bellepitiya - Morana		
GROUND ELEVATION		DEPTH OF HOLE	10.75m	ANGLE FROM VERTICAL	0°	
DIAMETER OF HOLE	3"	MACHINE	Joy	DATE OF DRILLING	13th June 99 1994	
CORE RECOVERY		DEPTH TO GROUND WATER LEVEL IN HOLE	2.80m below ground level			
		DRILLED BY	P.D. Somapala		LOGGED BY	G.S. Yapa

ELEVATION (m)	DEPTH (m)	THICKNESS (m)	FIELD OBSERVATION			CORE RECOVERY %	STANDARD PENETRATION TEST								
			COLUMN SECTION	SOIL OR ROCK CLASSIFICATION	COLOR		DESCRIPTION	DEPTH (m)	NUMBER OF BLOWS N						
							(N)	0	10	20	30	40	50	60	
	0.56	0.56		SP	Yellowish Brown	sh Dense Poorly Graded Sands									
	2.00	1.44		SC	Brown	Dense Clayey Sands		1.0	15						
	4.00	2.00		CL	Reddish Brown	Medium Stiff Sandy clays		2.0	08						
	5.00	1.00		CL/ML	Yellowish Brown	Medium Stiff clay / clayey silts		3.0	09						
	6.81	1.81		ML	Yellowish Brown	Very Stiff to Hard clayey silts + Mica		4.0	06						
	8.38	1.57		SM/SP	Dark Greyish Brown	Very Dense to Extremely Dense Silty Sands / Poorly graded sands		5.0	14						
	9.35	0.97		Garneti-Ferrous Biotite Gneiss	Black	Core Recovery=77.3% R.Q.D. = 47.4%		6.0	33						
	10.75	1.40		Fine to coarse faintly weathered		Core Recovery=57.9% R.Q.D. = 25.0%		7.0	33						
								8.0	50/ 26cm						

GEOLOGICAL RECORD OF BORING						HOLE No. BH 5			
PROJECT			Greater Colombo Water Supply Scheme		LOCATION		Bellapitliya - Horana		
GROUND ELEVATION		DEPTH OF HOLE		6.31m		ANGLE FROM VERTICAL		0	
DIAMETER OF HOLE		3"		MACHINE		Joy		DATE OF DRILLING	20th & 21st June 1994
CORE RECOVERY		DEPTH TO GROUND WATER LEVEL IN HOLE			1.60m below ground level				
DRILLED BY				P.D. Senapala		LOGGED BY			B.S. Yapa

ELEVATION (m)	DEPTH (m)	THICKNESS (m)	FIELD OBSERVATION				CORE RECOVERY		STANDARD PENETRATION TEST						
			COLUMN SECTION	SOIL OR ROCK CLASSIFICATION	COLOR	DESCRIPTION	%	cm	DEPTH (m)	NUMBER OF BLOWS N					
								(N)	0	10	20	30	40	50	60
	1.00	1.00		SP/SS	Brown	Medium dense poorly graded sands / Well graded sands			1.0	09					
	1.90	0.90		GW/SS	Reddish Brown	Medium dense well graded gravels / sands			2.0	17					
	2.76	0.86		CL	Yellowish Brown	Very stiff sandy clay									
	3.85	1.09		SM/SP	Greyish Brown	Extremely dense silty sands / poorly graded sands			3.0	50 / 23cm					
	4.56	0.75		Garneti-Ferrous Biotite Gneiss		Core Recovery = 83.6% R.Q.D. = 76.7%									
	5.21	0.63		Garneti-Ferrous Biotite Gneiss		Core Recovery = 100% R.Q.D. = 85.7%									
	6.31	1.10		Quartzo Feldspathic Gneiss		Core Recovery = 75% R.Q.D. = 40.9%									

GEOLOGICAL RECORD OF BORING						HOLE No. BH 5		
PROJECT	Greater Colombo Water Supply Scheme			LOCATION	Pallepitiya - Horana			
GROUND ELEVATION			DEPTH OF HOLE	7.53m		ANGLE FROM VERTICAL	0	
DIAMETER OF HOLE	3"		MACHINE	Joy		DATE OF DRILLING	19 <sup>th</sup> & 20 <sup>th</sup> June 1994	
CORE RECOVERY				DEPTH TO GROUND WATER LEVEL IN HOLE	3.45m below ground level			
				DRILLED BY	P.O. Somapala		LOGGED BY	S.S. Yapa

ELEVATION (m)	DEPTH (m)	THICKNESS (m)	FIELD OBSERVATION				CORE RECOVERY %	CORE RECOVERY cm	STANDARD PENETRATION TEST								
			COLUMN SECTION	SOIL OR ROCK CLASSIFICATION	COLOUR	DESCRIPTION			DEPTH (m)	NUMBER OF BLOWS N							
									(N)	0	10	20	30	40	50	60	
	0.56	0.56		SC	Brown	loose clayey sands											
				CL	Reddish Brown	Medium stiff to stiff sandy clay + gravels			1.0	05							
									2.0	05							
	3.85	3.30							3.0	14							
				SM	Greyish Brown	Extremely Dense silty sands			4.0	50/21cm							
	5.00	1.14							5.0	50/21cm							
				ML/SM	Greyish Brown	Hard to extremely dense silty sands/ clayey silts			6.0	50/24cm							
					Yellowish Brown				7.0	50/23cm							
	7.53	2.53				Rock											

GEOLOGICAL RECORD OF BORING					HOLE No. BH 7		
PROJECT	Greater Colombo Water Supply Scheme			LOCATION	Bellepitiya - Horana		
GROUND ELEVATION				DEPTH OF HOLE	11.63m	ANGLE FROM VERTICAL	0
DIAMETER OF HOLE	3"	MACHINE	Joy	DATE OF DRILLING	26th & 27th June 1994		
CORE RECOVERY				DEPTH TO GROUND WATER LEVEL IN HOLE	5.15m below ground level		
				DRILLED BY	P.D. Somapala		
				LOGGED BY	R.S. Yapa		

ELEVATION (m)	DEPTH (m)	THICKNESS (m)	FIELD OBSERVATION				CORE RECOVERY		STANDARD PENETRATION TEST									
			COLUMN SECTION	SOIL OR ROCK CLASSIFICATION	COLOUR	DESCRIPTION	%	cm	DEPTH (m)	NUMBER OF BLOWS N								
										(N)	0	10	20	30	40	50	60	
	0.58	0.56		SW/GW	Brown	Loose well graded sands / gravels												
	2.00	1.42		SC/CC	Reddish Brown	Loose clayey sands / clayey gravels			1.0	08								
	4.00	2.00		CL	Reddish Brown	Stiff to medium stiff clayey sands + gravels			2.0	10								
	5.78	1.78		CL/ML	Reddish Brown / Yellowish Brown	Medium stiff to stiff sandy clays / clayey silts			3.0	07								
	7.00	1.22		ML/SM	Yellowish Brown	Stiff to medium dense clayey silts / silty sands			4.0	08								
	8.00	1.00		SM/ML	Yellowish Brown	Extremely dense to hard silty sands / clayey silts			5.0	09								
	8.85	0.85		ML/SM	Greyish Brown	Stiff to medium dense clayey silts / silty sands			6.0	13								
	9.63	0.77		SM	Greyish Brown	Very dense silty sands			7.0	50 / 4cm								
	10.61	0.98		Garnet-Ferrous Biotite Gneiss	Brownish to Black	Core Recovery=98.5% R.Q.D. = 81.1%			8.0	11								
	11.63	1.02		Faintly Weathered		Core Recovery=83.3% R.Q.D. = 74.5%			9.0	37								

**GEOLOGICAL RECORD OF BORING**

HOLE No. BH 8

PROJECT	Greater Colombo Water Supply Scheme	LOCATION	Bellapitiya - Horana		
GROUND ELEVATION		DEPTH OF HOLE	22.35m	ANGLE FROM VERTICAL	0°
DIAMETER OF HOLE	3"	MACHINE	YBM	DATE OF DRILLING	25th & 27th June 1994
CORE RECOVERY		DEPTH TO GROUND WATER LEVEL IN HOLE	3.25m below ground level		
DRILLED BY			H.M. Weerasinghe		
LOGGED BY			S.S. Yapa		

ELEVATION (m)	DEPTH (m)	THICKNESS (m)	FIELD OBSERVATION				CORE RECOVERY		STANDARD PENETRATION TEST							
			COLUMN SECTION	SOIL OR ROCK CLASSIFICATION	COLOR	DESCRIPTION	%	cm	DEPTH (m)	NUMBER OF BLOWS N						
									(N)	0	10	20	30	40	50	60
	0.61	0.61		SW/GW	Brown	Loose Well Graded sand/ gravels			1.0	06						
				CL	Reddish Brown	Medium stiff sandy clays			2.0	05						
					Yellowish Brown				3.0	05						
	3.61	3.00							4.0	06						
					Greyish Brown	Medium stiff to hard clayey silts + mica			5.0	08						
									6.0	08						
									7.0	11						
									8.0	10						
									9.0	09						
									10.0	08						
									11.0	15						
									12.0	07						
									13.0							
									14.0	29						
									15.0	30						
									16.0	21						
									17.0	38						
									18.0	48						
	19.0	15.35							19.0	50/25cm						
				ML/SM	Greyish Brown	Hard to extremely dense clayey silts / silty sands			20.0	50/25cm						
					Yellowish Brown				21.0	50/28cm						
	22.35	3.35				Rock			22.0	50/2cm						



GEOLOGICAL RECORD OF BORING				HOLE No. BH 9	
PROJECT	Greater Colombo Water Supply Scheme		LOCATION	Rellapitiya - Horana	
GROUND ELEVATION		DEPTH OF HOLE	4.80m	ANGLE FROM VERTICAL	0
DIAMETER OF HOLE	3"	MACHINE	Joy	DATE OF DRILLING	25th June 1994
CORE RECOVERY		DEPTH TO GROUND WATER LEVEL IN HOLE	1.10m below ground level		
DRILLED BY P.O. Somapala			LOGGED BY R.S. Yapa		

ELEVATION (m)	DEPTH (m)	THICKNESS (m)	FIELD OBSERVATION				CORE RECOVERY		STANDARD PENETRATION TEST								
			COLUMN SECTION	SOIL OR ROCK CLASSIFICATION	COLOUR	DESCRIPTION	%	cm	DEPTH (m)	NUMBER OF BLOWS N							
									(N)	0	10	20	30	40	50	60	
	0.58	0.58		SP/SW	Brown	loose poorly to well graded sands											
	2.00	1.42		CL	Yellow Brown Greyish Brown	sh Soft sandy clays			1.0	04							
	2.40	0.40		SM/ML	Greyish yellow Brown	Extremely dense to hard silty sands/ clayey silts			2.0	50/ 27cm							
	3.60	1.20		Garneti-Ferrous Biotite Gneiss	Brown to Black	Core Recovery=16.7% R.Q.D. = 0%											
	4.40	0.80		Highly to moderately weathered Faintly weathered	Black	Core Recovery=81.3% R.Q.D. = 50.0%											





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