Generated Daily Discharge Table No. III -

		Table	No. III	– 6 Gen	enerated D	aily	Discharge a	t Intake	Site in	1975		
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Table III - 10 Frequency Analysis of Rainfall Depth

								(Uni	t:mm)
STC	F-5-	•		RI	ETURN	PERIOD	(YEAR)		
	ATION YS)	:	2	5	10	20	50	100	200
Α.	Gumbe	el	method	3					٠,
	1	:	96	139	168	196	232	258	285
	2	:	129	190	229	268	317	354	391
	2	:	159	223	265	305	358	397	436
	5	:	211	296	353	408	478	531	584
В•	Iwai	me	thod	•	*	•			*
	1	:	96	125	142	159	179	195	210
	2	5	129	1.71	198	223	255	280	304
	3	:	159	211	245	278	317	347	376
	5	•	210	276	316	352	396	428	458
C.	Log-l	ea Pea	rson 5	l'ype-I	II me	thod			
	1	:	88	117	143	176	231	283	346
		:	122	165	202		305	361	425
	2 3 5	:	159	212			323	355	387
	5	:	207	278	326	372	436	485	536

Table III - 11 Heavy Rainfall Data at Kuching

		Period	Amount
·	No	From To	(mm)
1	(1)	Jan. 8, 1971 - Jan. 9, 1971	355
1	(2)	Jun. 22, 1972 - Jun. 23, 1972	247
i - ((3)	Dec. 24, 1973 - Dec. 25, 1973	198
. 1	(4)	Dec. 28, 1975 - Dec. 29, 1975	193

Table III - 12 Ratio of Every 3-hour Rainfall Depth to 1-day Rainfall Depth

Duration (hr)	Accumulated (%)	Ratio (%)
0 - 3	9.7	9.7
3 - 6	24.4	14.7
6 - 9	40.0	15.6
9 - 12	60.5	20.5
12 - 15	82.3	21.8
15 - 18	89.5	7.2
18 - 21	95.3	5.8
21 - 24	100.0	4.7

Table III - 13 Design Rainfall

		÷ * .						(U	nit:mm)
RETURN		*** *** tur *** tun *	D	URATIO	H) NC	RS)			momar
PERIOD (YEARS)	3.	6	9	12	15	18	21	24	TOTAL
2	9	13	14	18	19	6	5	4	89
5	13	19	20	27	28	9	7	6	129
10	15	23	24	32	34	11	9	7	156
20	18	27	28	37	40	13	11	9	182
50	21	32	34	44	47	16	13	10	216
100	23	35	37	49	52	17	14	11	240
200	26	39	41	54	58	19	15	12	265

Table III - 14 Loss Rate adopted in Malaysia

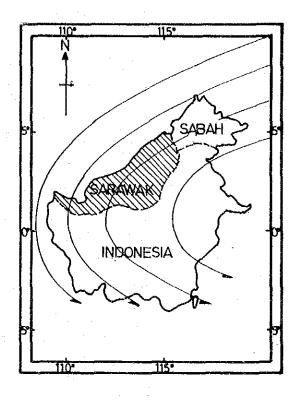
· ·	•		
Project	Location	Catchment Area (sq.km)	Loss Rate (mm/hr)
Klang Gates Dam	P. Malaysia	74	5.1
Jor Dam	81	123	7.2
Batang Ai	Sarawak	1,200	3.0
Pergau Dam	P. Malaysia	1,290	2.5
Temengor Dam	20	3,400	2.5
Kenyir Dam	H	4,580	2.5
Bakun	Sarawak	14,750	4.0

Table III - 15 Probable Peak Discharge and Flood Volume

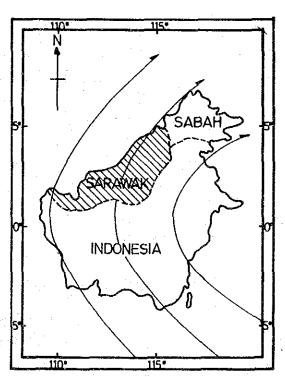
CATCHMENT AREA (sq.km)	RETURN PERIOD (years)	FLOOD VOLUME (mcm)	PEAK DISCHARGE (cms)	SPECIFIC DISCHARGE (cms/sq.km)
	2	10.3	273	0.9
	5	20.3	469	1.6
	10	27.7	601	2.1
292	20	35.1	705	2.4
	50	44.8	895	3.1
	100	51.7	1,012	3.5
	200	58.9	1,135	3.9

Table III-16 Water Quality in Mukoh River

Description	Unit	1	2	3	4	5	6
PH (22 C)		6.32	6.88	6.91	6.75	6.95	7.01
Colour (Hasen unit)		5 .	5	5	5	5	5
Hardness, total CaCO ₃	ppm	12.5	12.5	10.0	10.0	10.0	12.5
Oxygen dissolved (O ₂)	ppm	6.5	9.4	9.2	9.6	10.0	10.0
Carbon dioxide, dissolved (CO ₂)	ppm	12	8	5	7	6	5
Solids, dissolved	ppm	4.4	4.2	3.9	3.7	3.8	4.2
suspended	ppm	89.1	58.9	52.4	35.2	42.9	1.4
Ammonical Hitrogen (N)	ppm	0.02	0.01	0.01	0.01	0.01	0.01



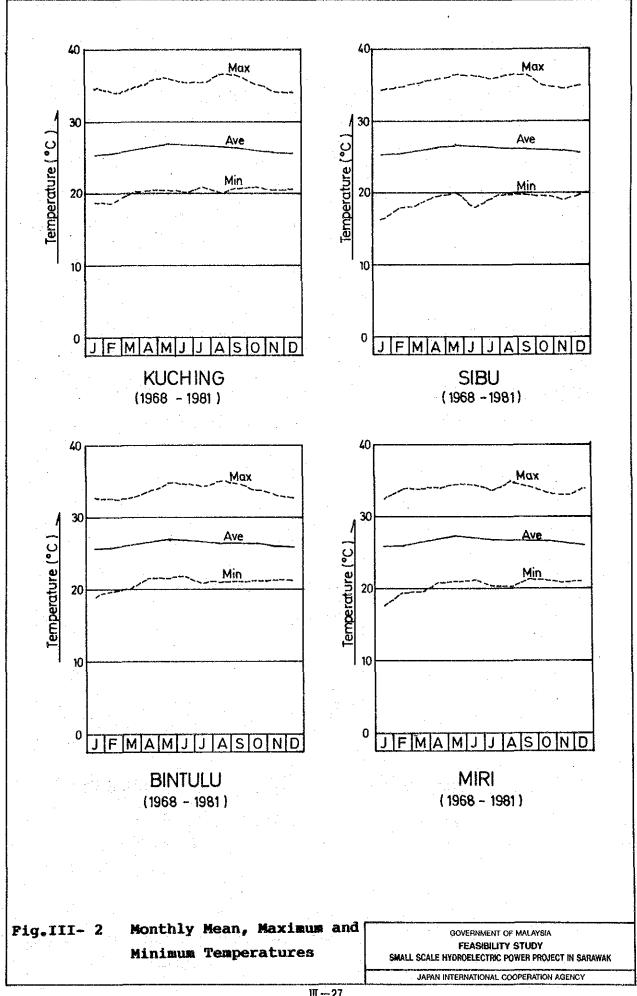
Rainy Season (Oct. — Apr.)

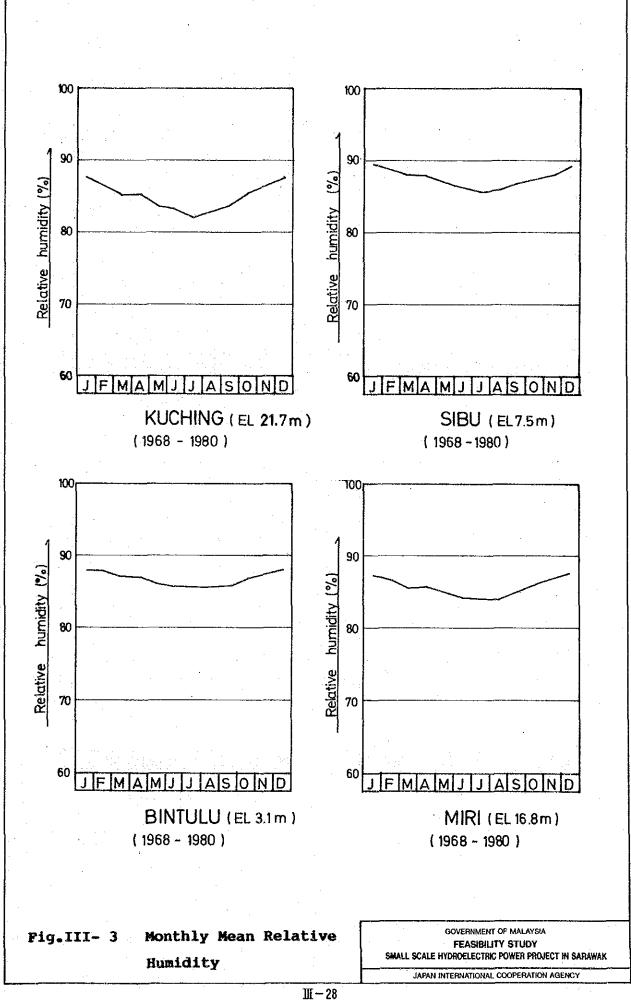


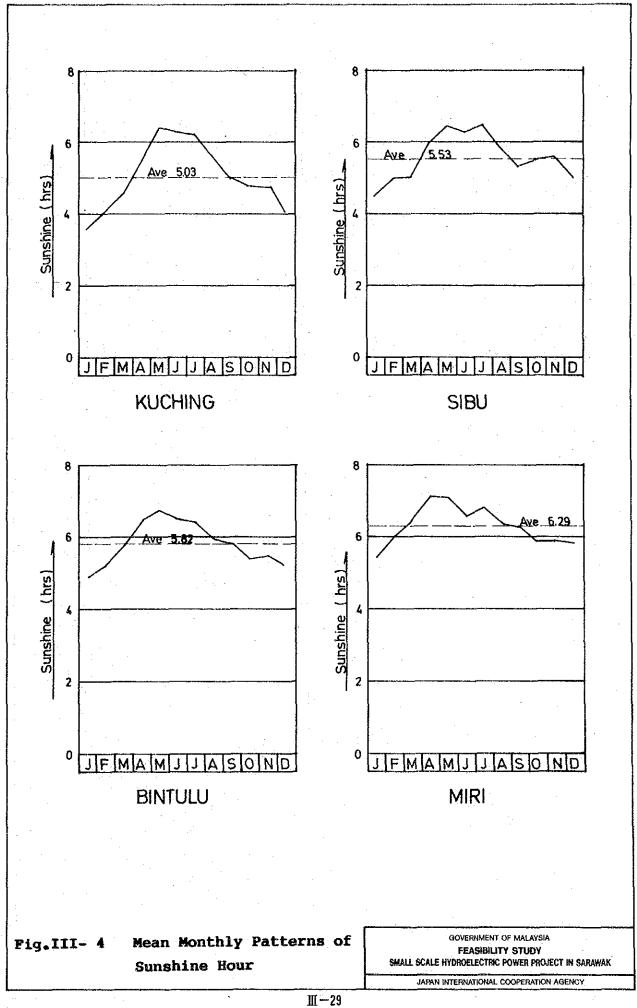
Dry Season (Apr.-Oct.)

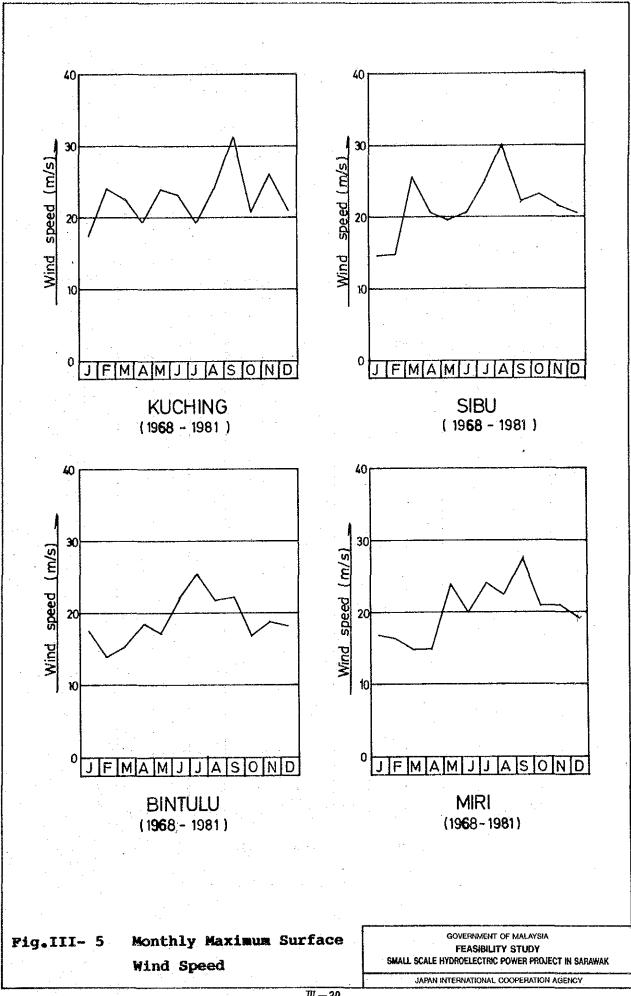
Fig.III- 1 Prevailing Patterns of Monsoons

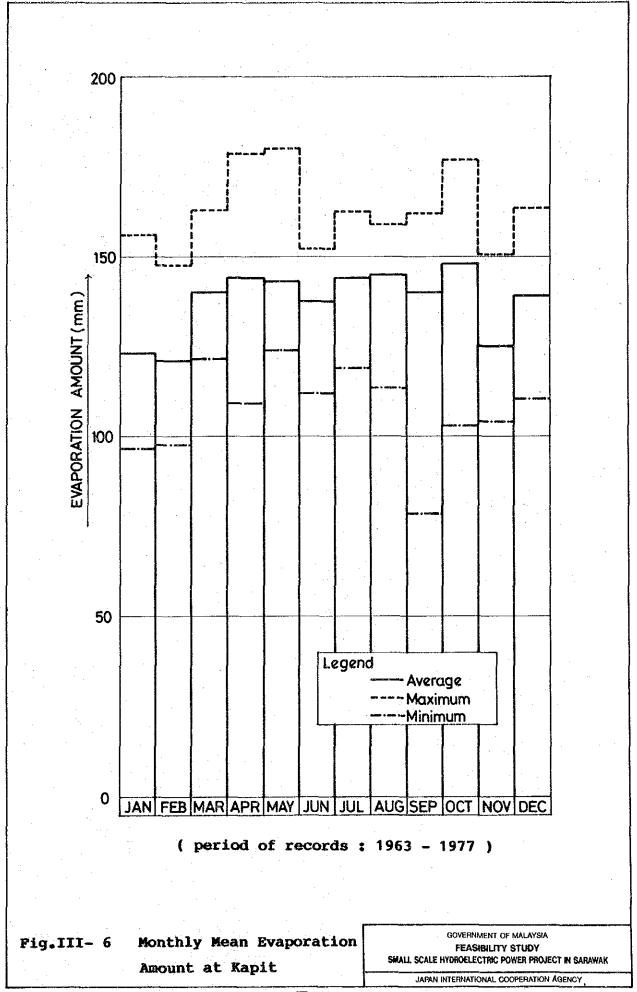
GOVERNMENT OF MALAYSIA
FEASIBILITY STUDY
SMALL SCALE HYDROELECTRIC POWER PROJECT IN SARAWAK
JAPAN INTERNATIONAL COOPERATION AGENCY

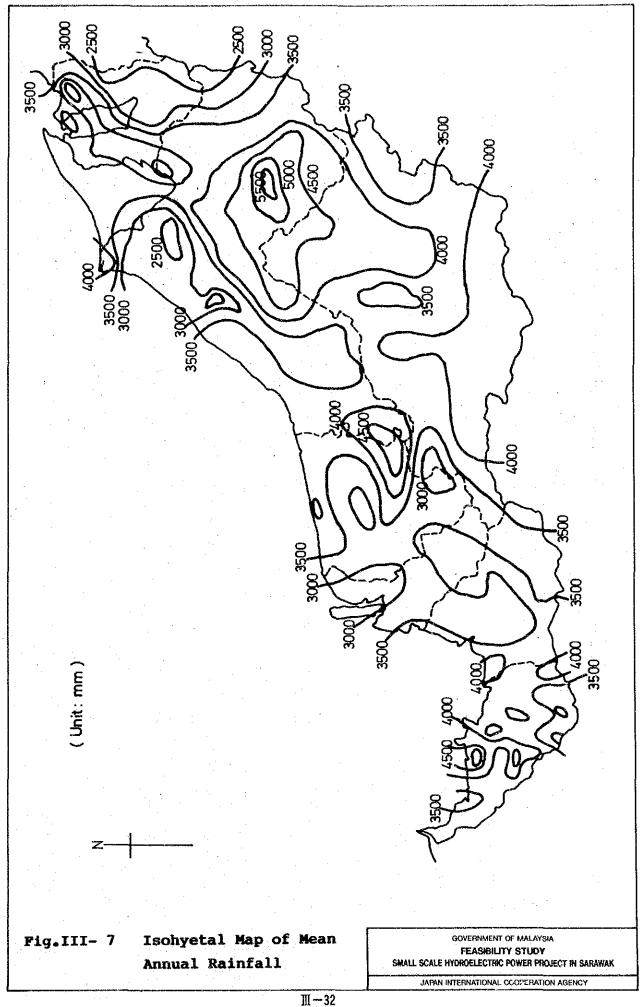


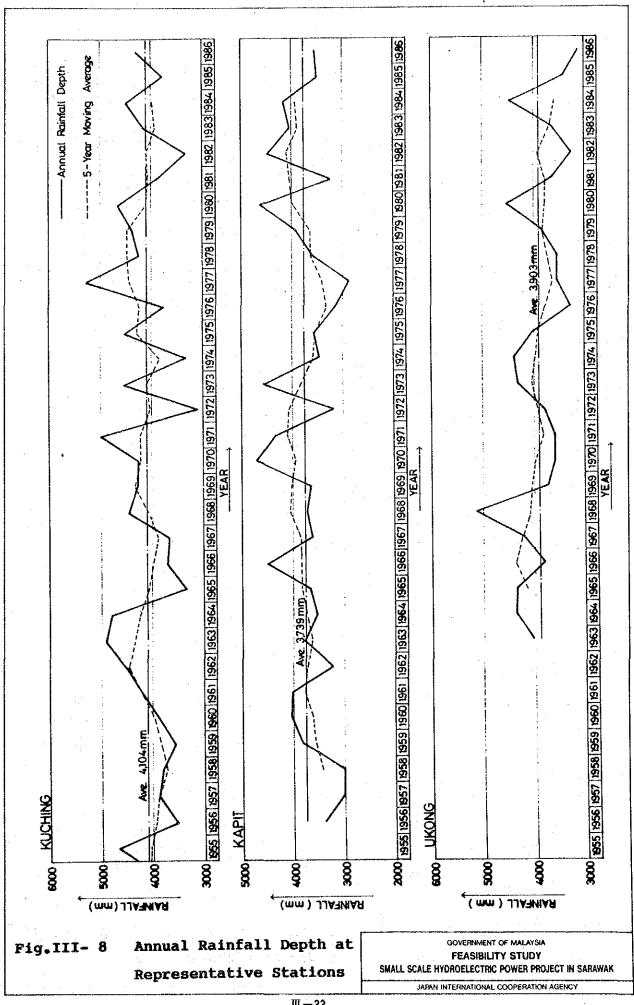


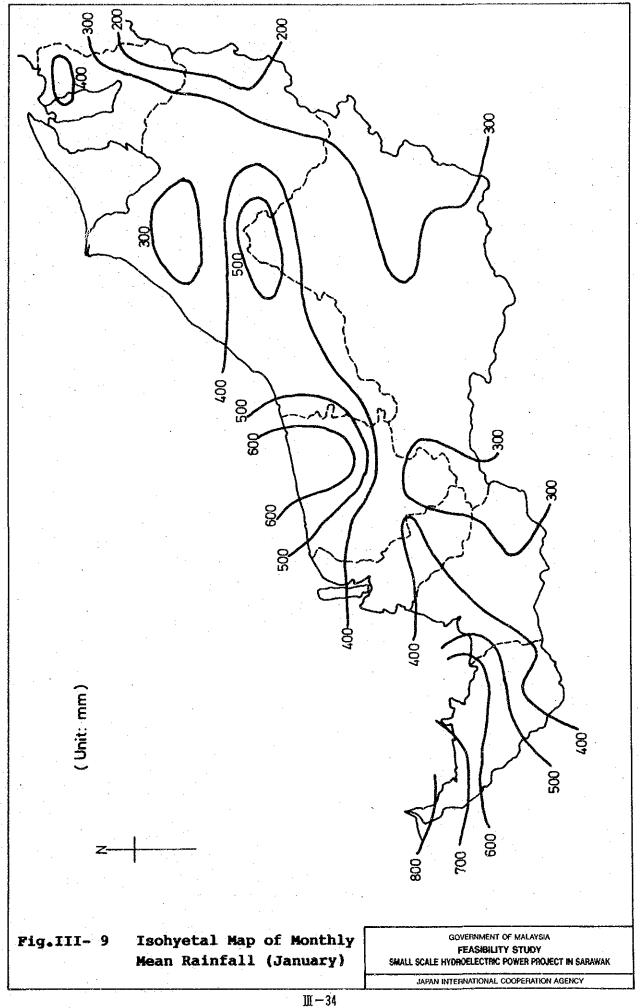


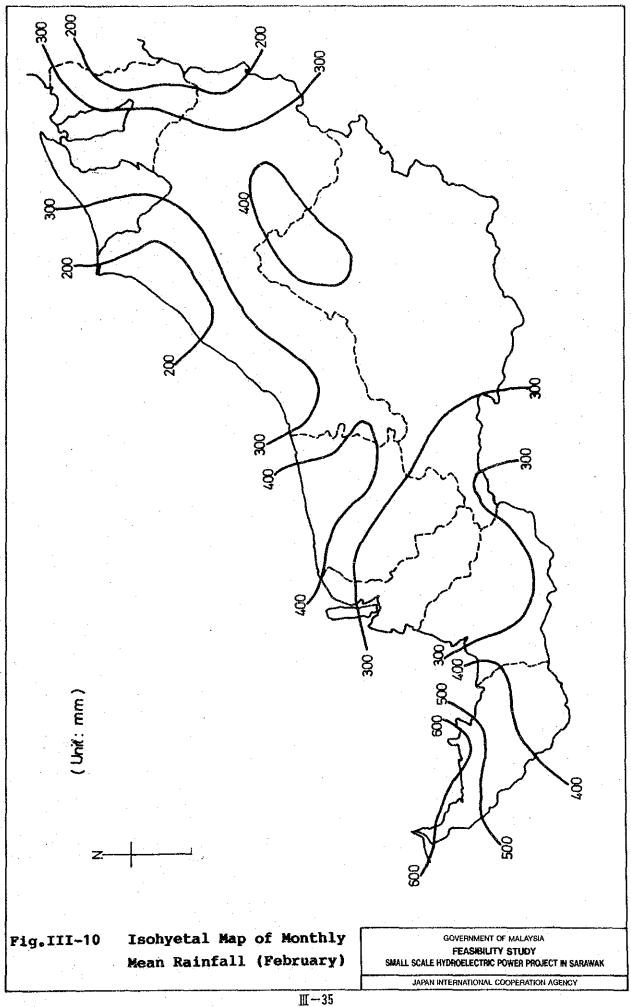


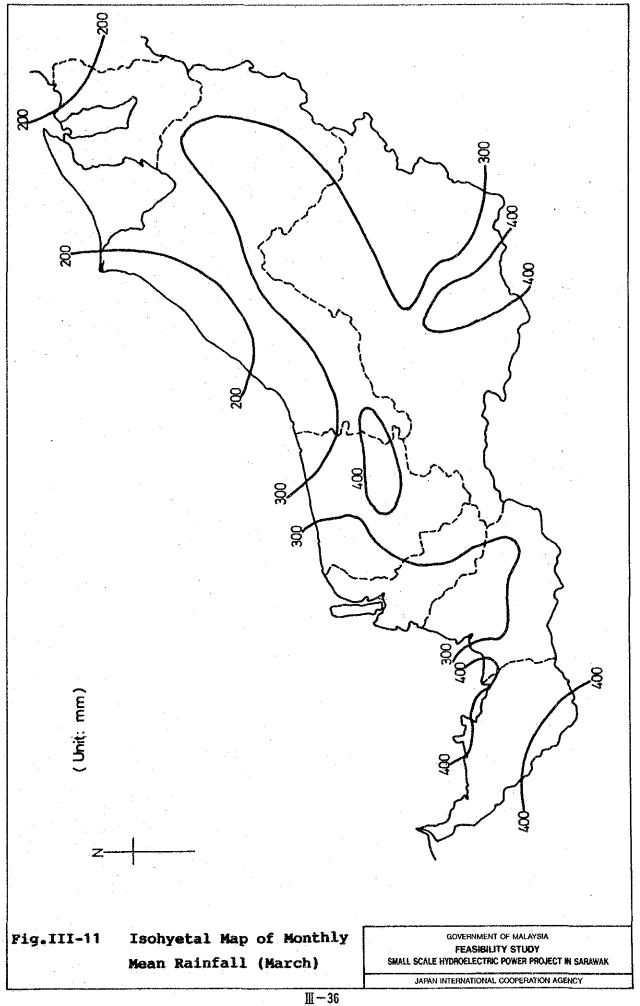


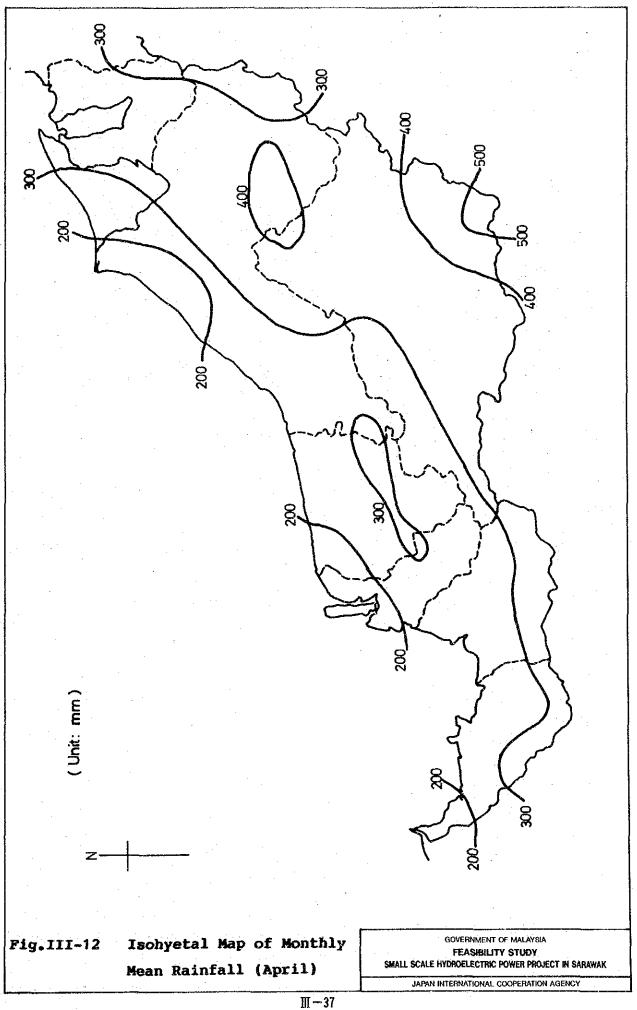


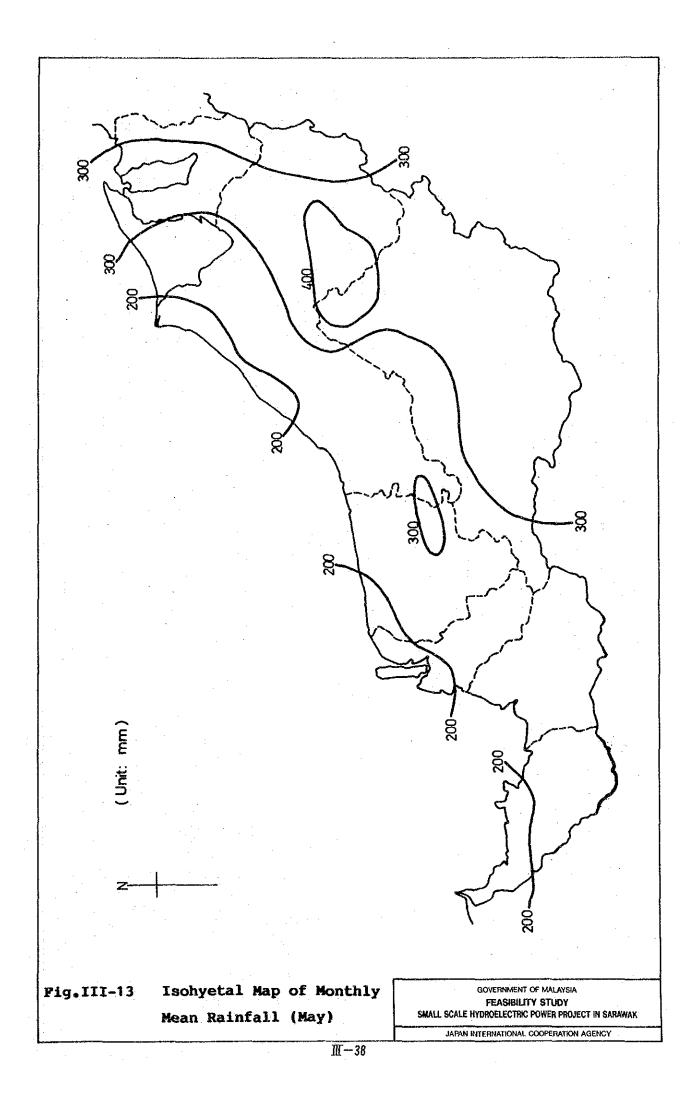


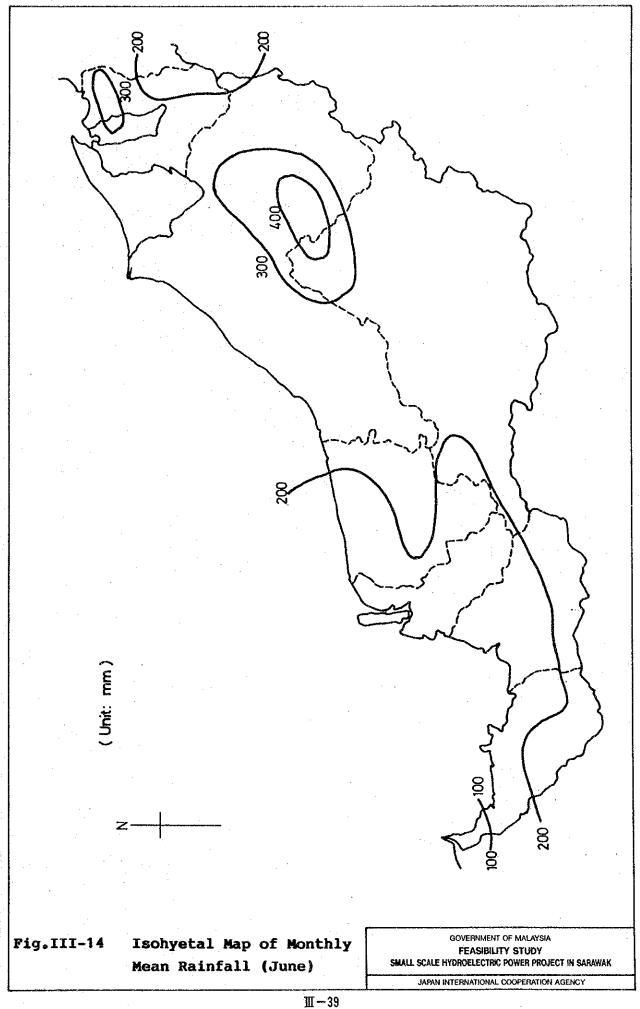


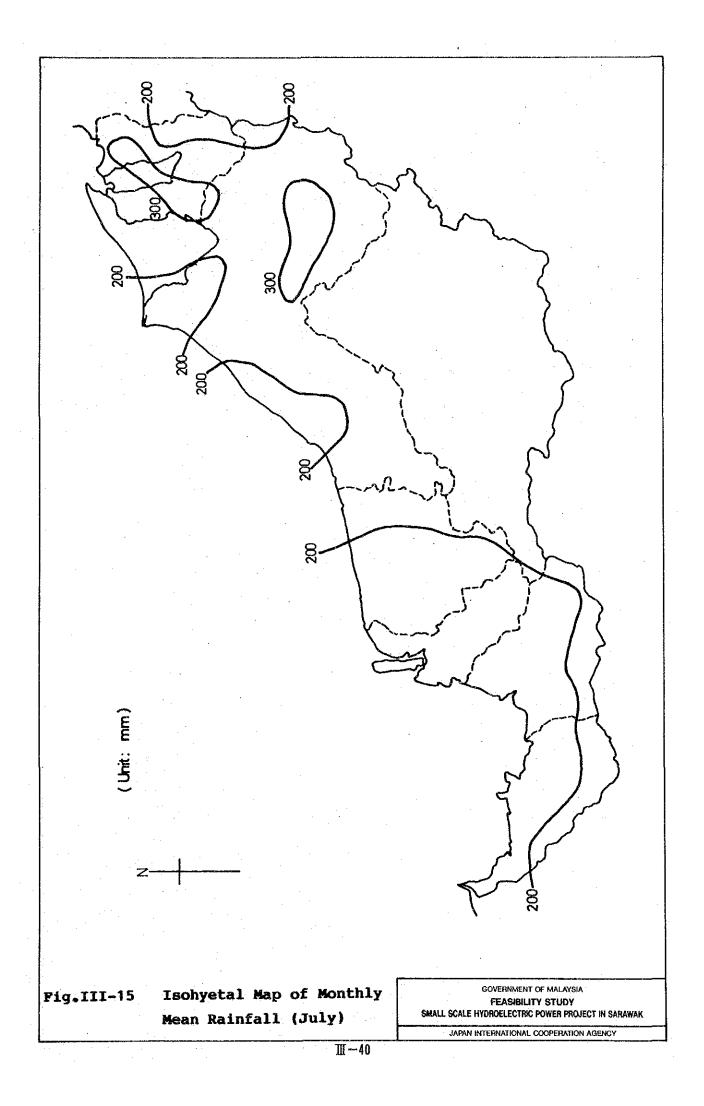


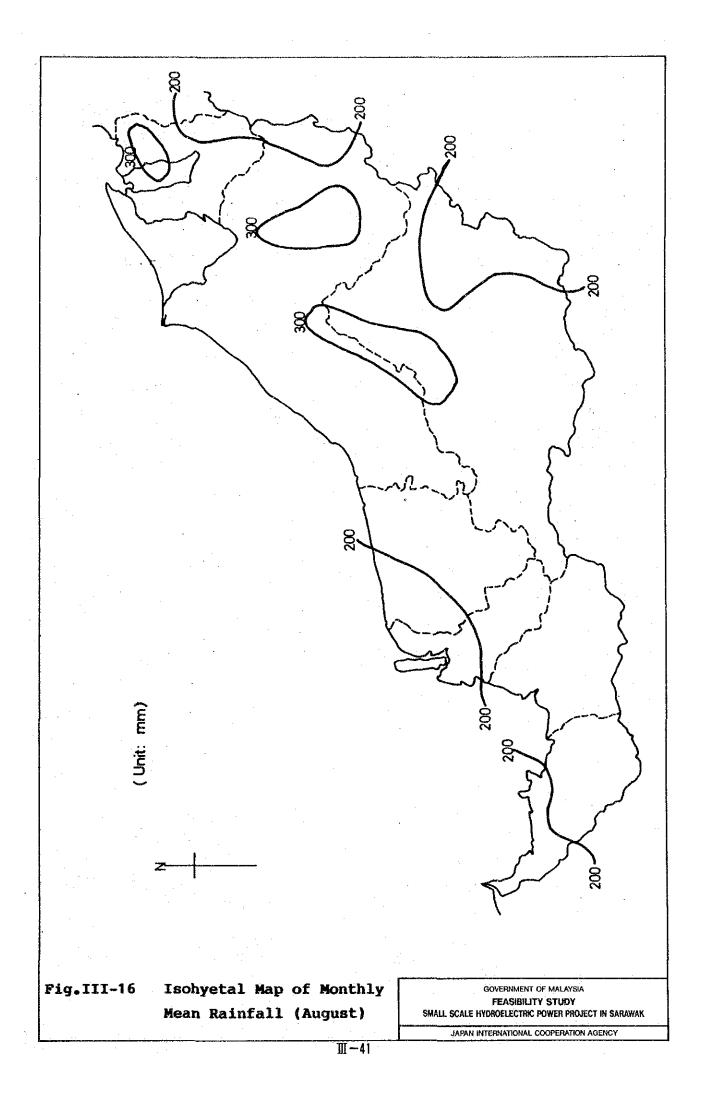


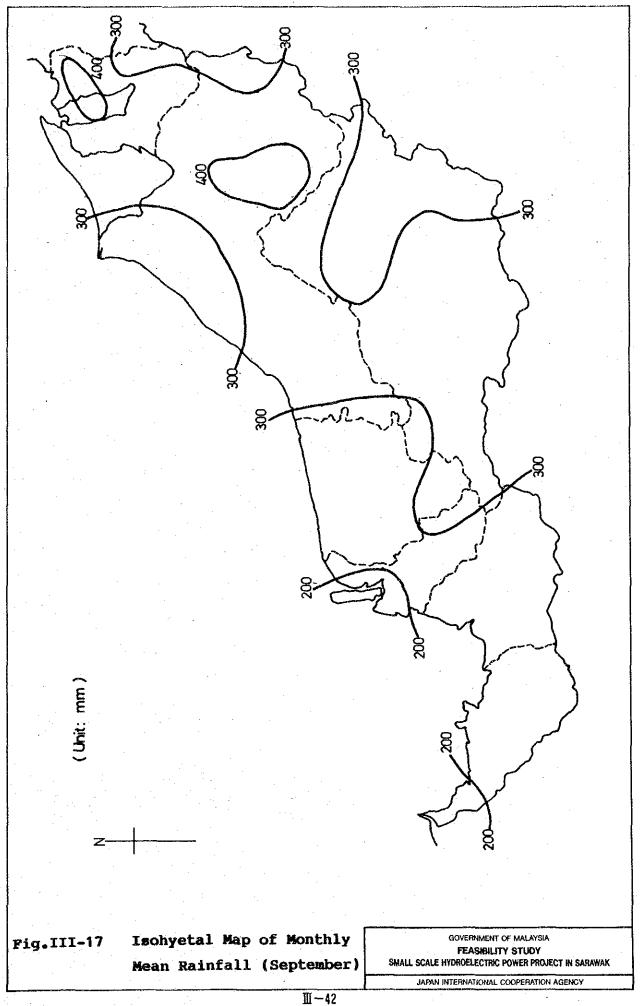


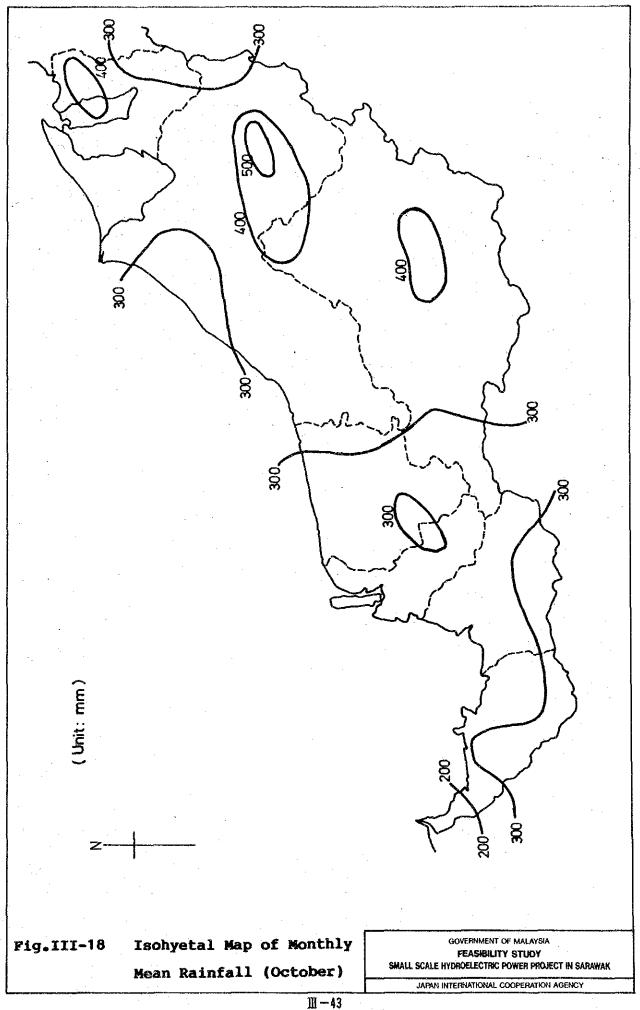


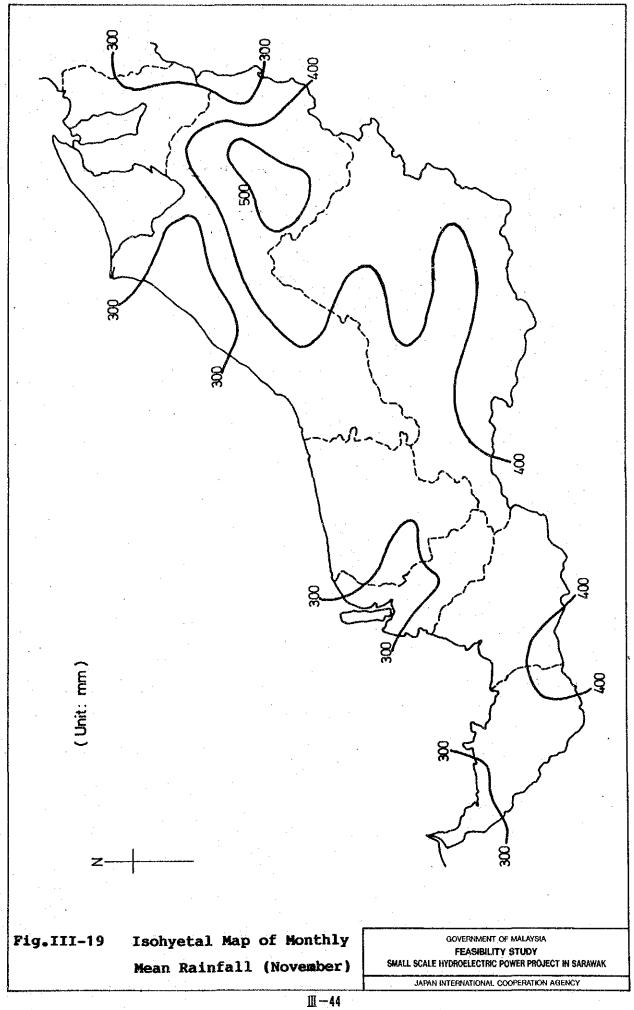


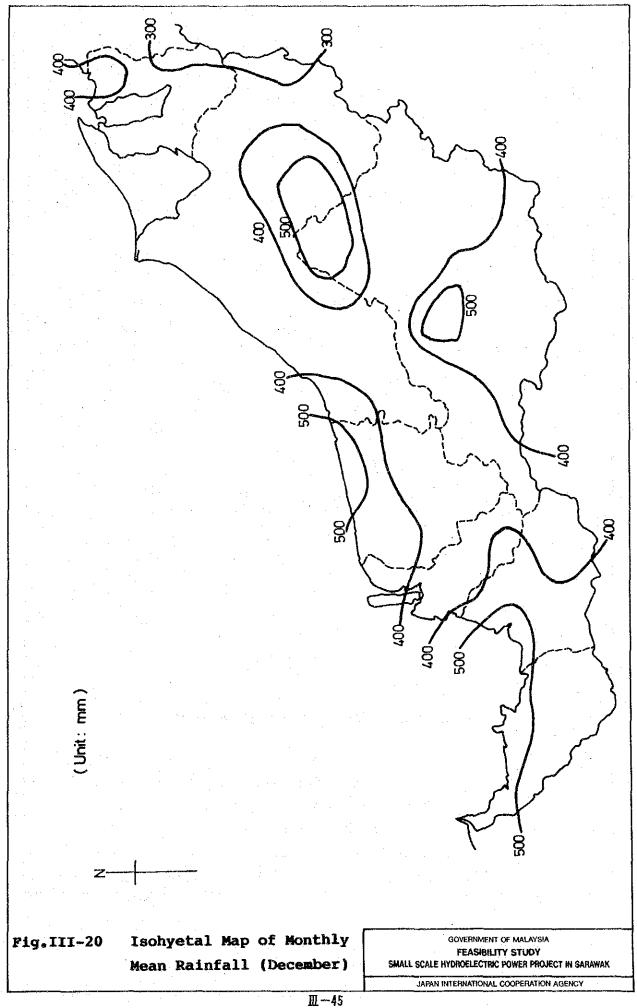


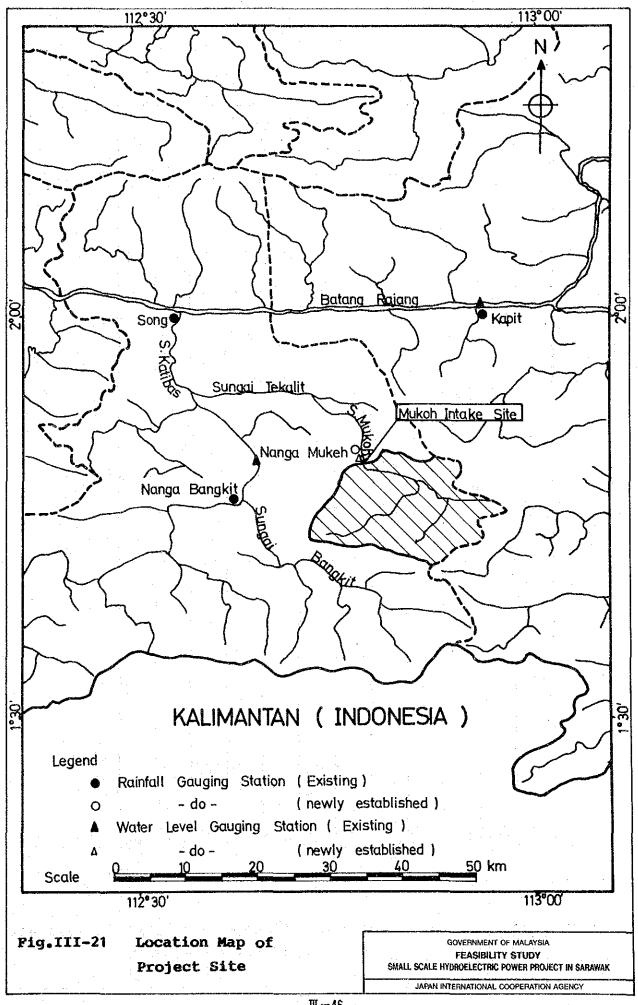


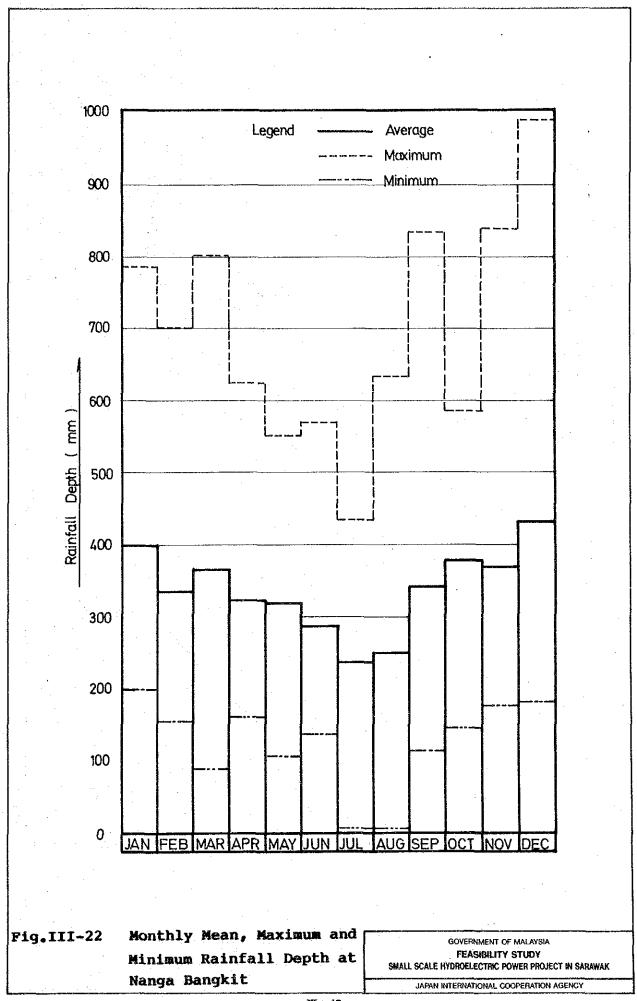


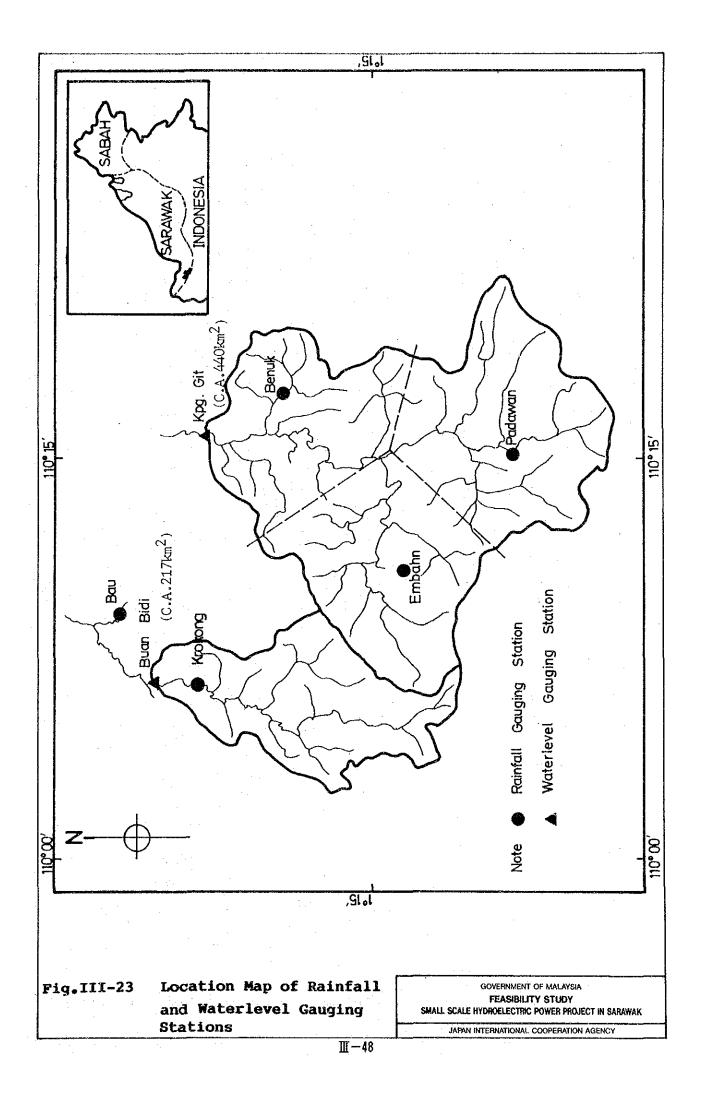


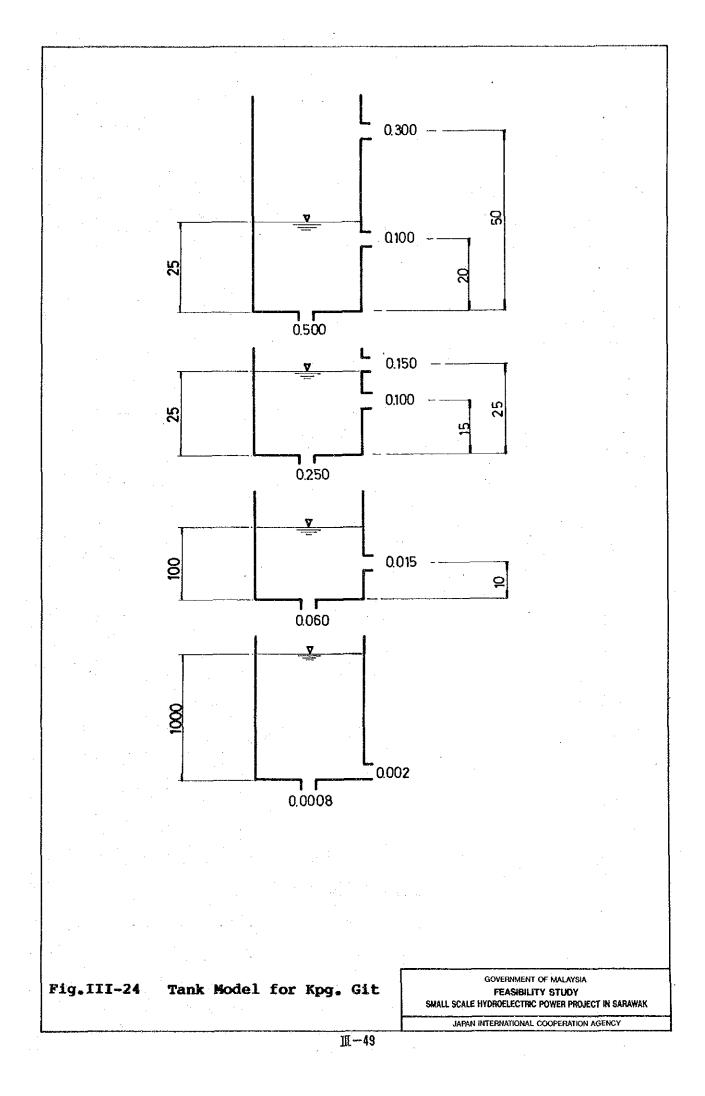


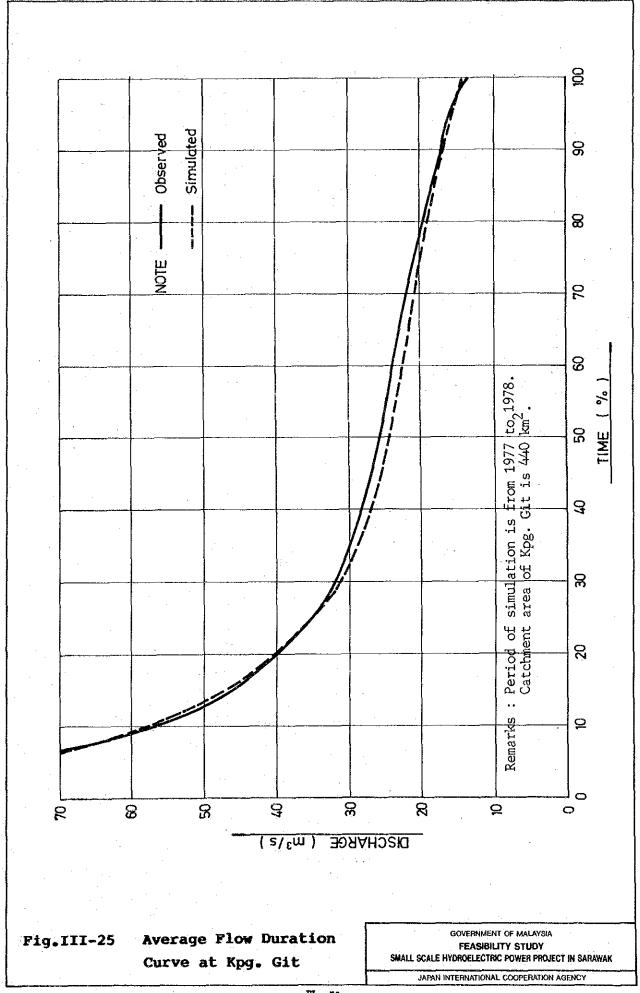


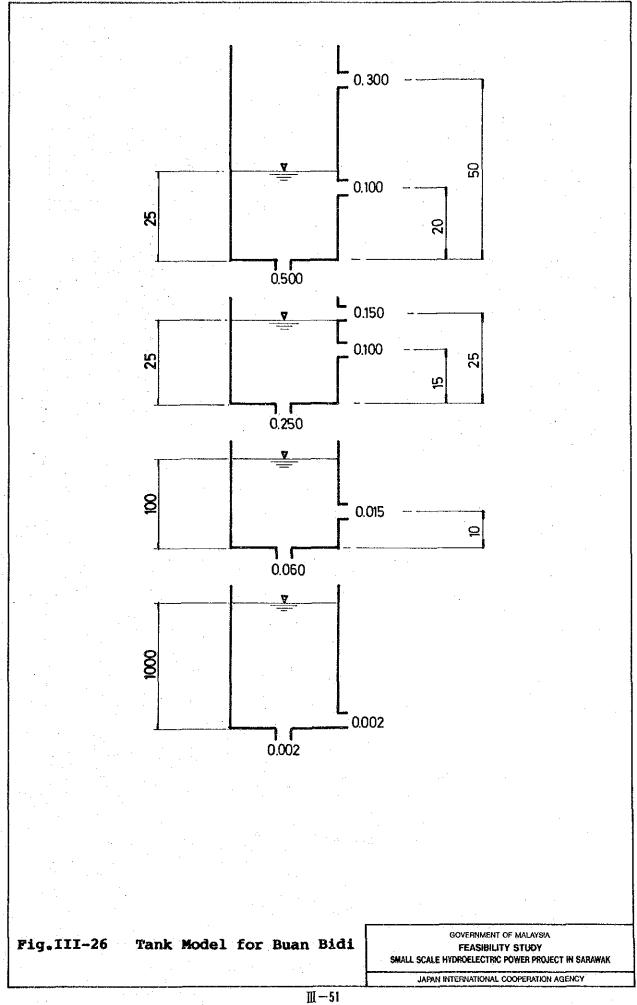


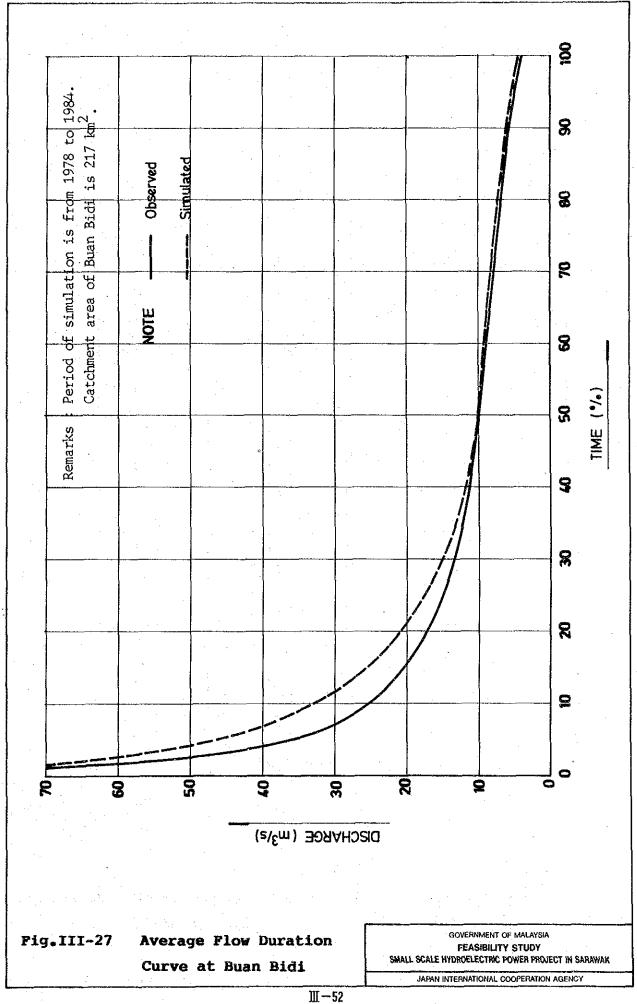












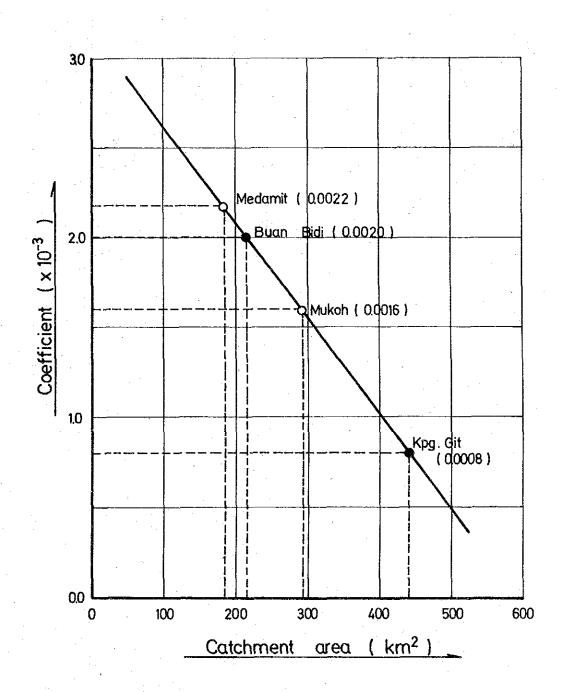
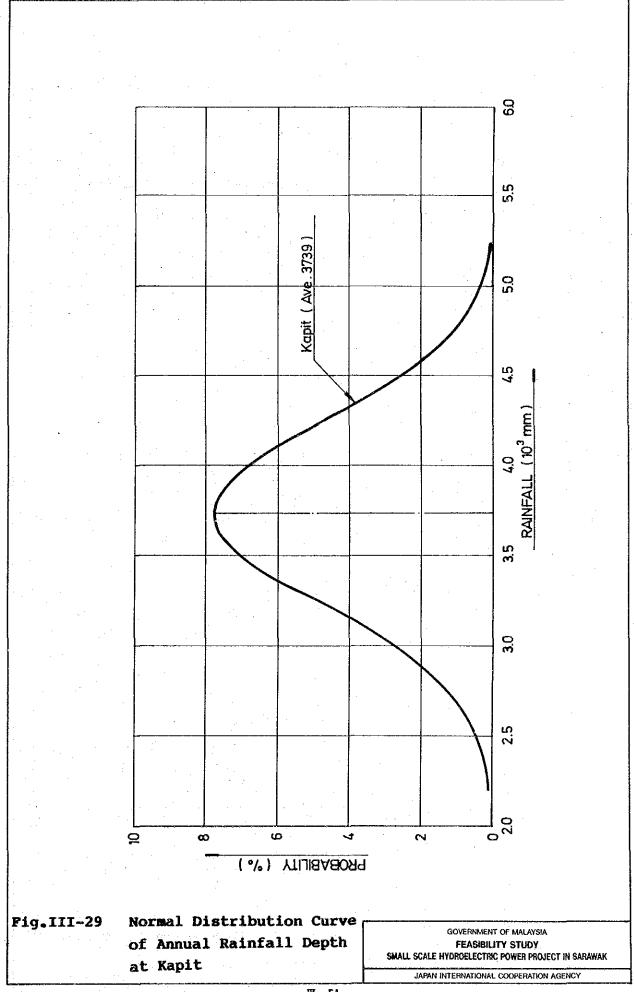


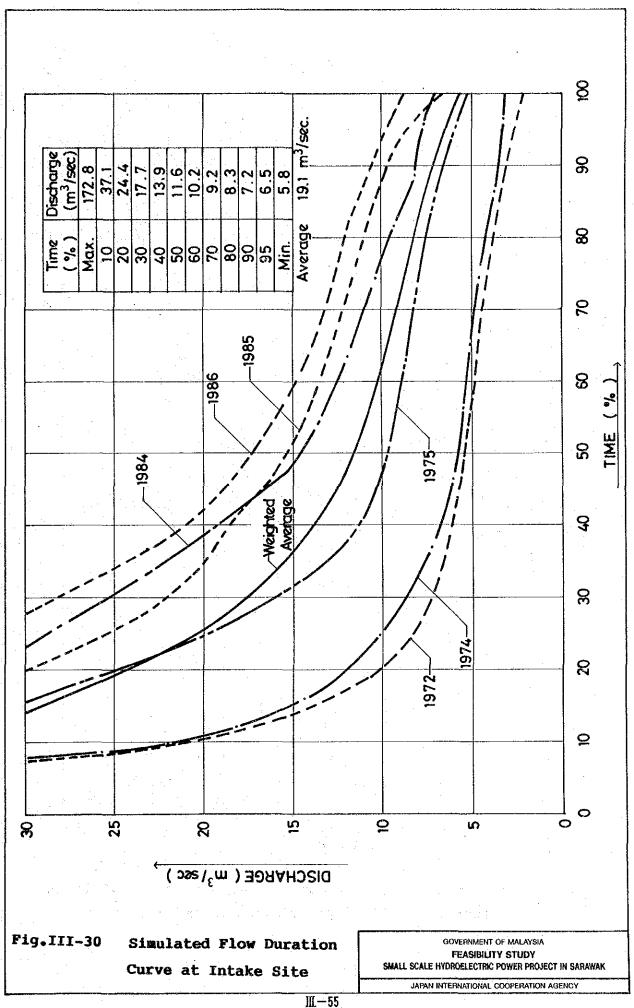
Fig.III-28 Relationship between Catchmant Area and Coefficient of Tank Model

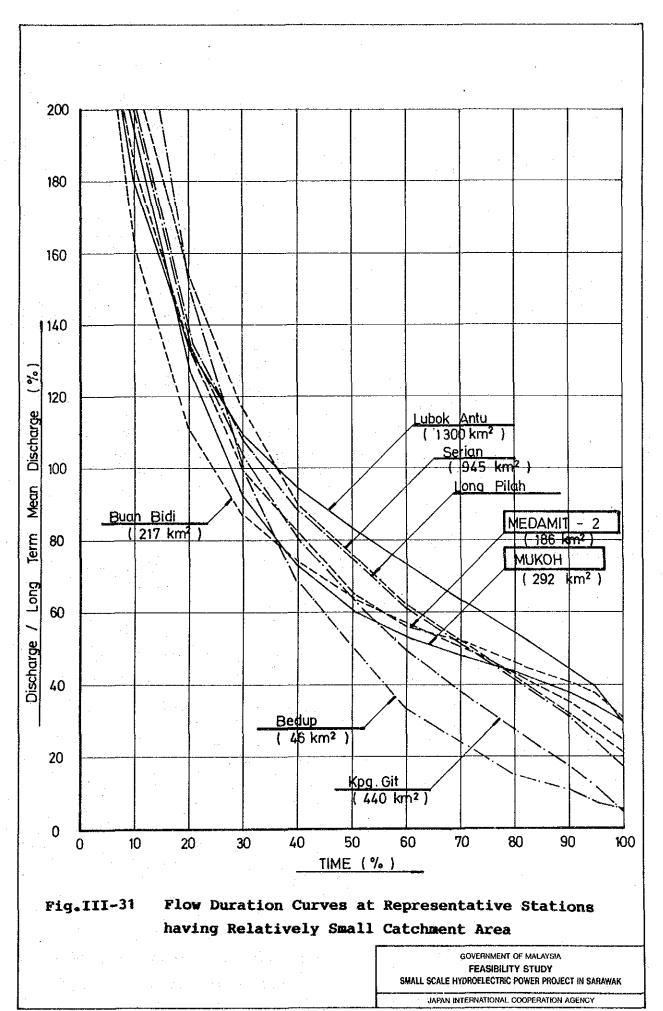
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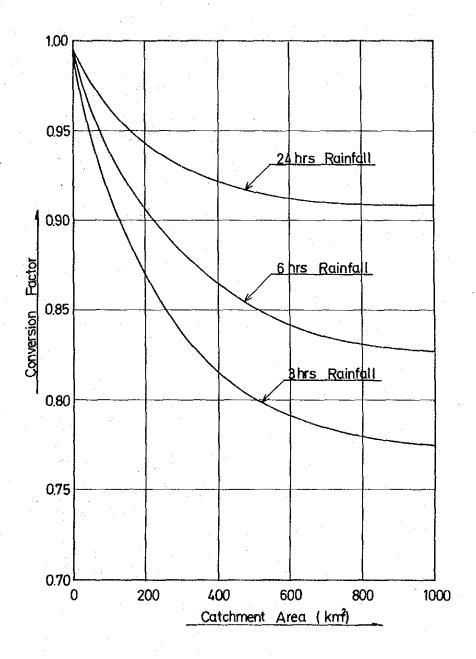
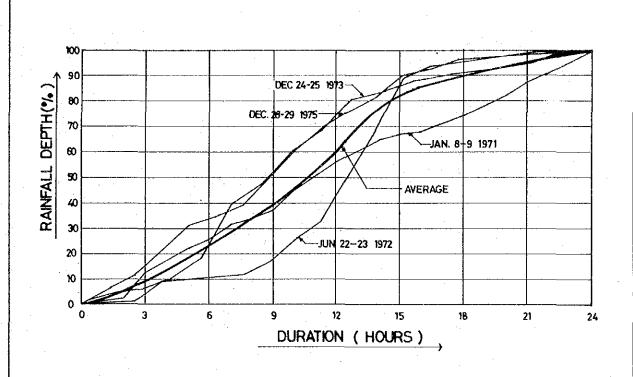


Fig.III-32 Conversion Factor of Point Rainfall

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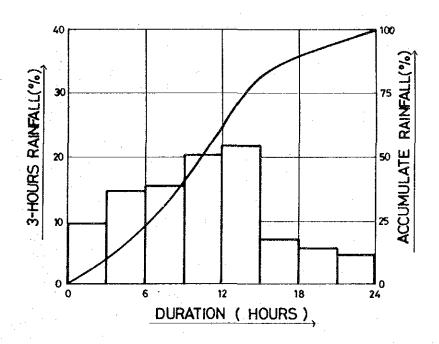


Fig.III-33 Average Hourly Rainfall
Distribution Pattern

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