2.3 Hydrological Conditions

Monthly runoffs of major rivers including the Kok, Ing, Nan, Yom, Wang, Ping Chao Phraya and Mekong rivers are tabulated and summarized as in the following tables;

- Monthly Runoff of Major River Related to the Project
- Runoff Characteristics of Major Rivers
- Monthly Runoff at Each Station (in total 23 stations)

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Table 2.3.1	
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									Month							Specific	1
River Ba	River Basin & Gaging Station	Area	4	55	9	,	89	6	92	=	12	-	2	67	Potal	Runoff Yield	Mean Discharge
		(will)											-	,		(HH)	(m/sec)
(I) Kok:	Ban Tha Don (GN3)	2,980	48.8	68.3	112.0	246.1	420.1	393.7	275.8	194,9	141.5	107.1	72.8	59.7	2,140	719	68
	Kok Bridge (G2A)	6,053	62.5	100.3	173.6	381.8	107.9	787.0	496.4	345.8	227.7	144.8	90.7	69.6	3,588	593	114
	Ban Tha kok (GN1)	10,300	84.3	155.2	265.1	557.7	1,020.0	1,061.2	788.5	6.313	310.7	209.1	123.1	93.6	5,190	504	165
(2) Lao;	Ban Tha Sai (GN15)	3,080	9.4	33.5	45,8	80.8	156.3	196.4	141.3	9.46	51.3	27.3	0.11	7.3	855	81.2	27
(3) Ing:	Khao Ing Rod (IN2)	3,450	3.0	12.9	26.0	76.2	190.8	258.4	176.8	90.6	26.8	12.4	4.4	2.6	881	256	28
	A. Thoeng (IN1)	5,700	5.5	34.7	68.0	178.6	460.2	547.5	327.6	151.5	58.5	27.3	11.3	7.7	1,882	331	9
	Ban Pra Mong (IN3)	1,210	2.5	5.6	7.0	15.0	36.1	69.3	48.2	32.7	8.7	5.5	2.5	2.2	235	195	80
(4) Yao;	Ban Wang Hit (N51)	774	5.8	13.4	23.2	69.0	88.0	81.7	39.6	21.8	14.6	10.4	6.8	5.5	380	491	13
(5) Nan;	Ban Mon (N17)	1,166	20.0	31.5	47.8	115.6	172.2	129.1	70.6	42.2	31.6	26.2	20.0	19.6	726	628	23
	Muang Nan (N1)	4,609	25.7	61.8	156.6	465.4	763.8	589.8	241.6	102.1	57.7	36.6	22.1	20.5	2,544	292	318
	Ban Hat Phai (N12A)	15,718	553.4	472.7	371.0	508.6	733.3	611.9	338.8	345.5	219.1	256.9	390.8	573.5	5,375	342	171
	Nam Khwai Noi	5,775	109.8	124.5	137.0	161.4	253.9	328.5	248.1	143.0	100.2	63.7	76.0	103.9	1,850	321	320
	Muang Phitaanulok (NSA)	25,286	483.2	491.5	564.3	680.0	1,036.9	1.308.8	720.5	458.2	375.2	269.9	348.8	477.3	7,155	283	286
	Muang Phicit (N7)	29,153	520.3	589.8	649.4	764.8	1,203.3	1,567.0	1,176.7	677.5	474.9	302.1	360.3	492.3	8,767	301	278
	Chung Saeng (N14)	33,197	417.4	461.3	619.7	797.0	1,252.4	1,729.9	1,526.7	913.1	503.0	268.7	276.1	421.4	9,186	277	282
(6) Yom:	Sukotai (Y14)	12,131	14.9	79.1	119.0	226.9	619.7	795.9	421.2	140.8	55.6	28.8	13.9	. 11.3	2,527	209	18
(7) Wang;	Tak (W4A)	10,507	8.3	27.1	55.2	58.2	157.4	310.7	264.2	119.2	39.2	19.2	10.1	8.3	1,077	147	100
(8) Ping;	Kamphaeng Phot (P7A)	42,700	721.9	654.2	595.6	593.7	695.2	836.9	962.3	673.4	400.8	362.6	510.4	741.9	7,759	103	33
(9) Chao Phra;	(9) Chao Phraya; Nakhon Sawan (C2)	110,569	1,391.6	1,612.9	1,569.4	1,878.3	3,142.5	3.985.9	3,067.7	1,724.3	1,054.7	779.6	981.5	1,377.4	22,466	182	246
(10) Pasak;	Damaito	12,925	14.9	40.4	74.9	92.8	206.0	549.8	757.7	153.6	48.8	24.7	13.7	13.3	1,991	204	713
:	Confluence of Chao Phraya	16,292	18.1	49.0	90.8	112.6	249.7	666.6	918.6	186.2	59.2	30.0	16.6	16.1	2,413	149	77
(11) Mekong;	Chiang Saon	189,000	3,139.0	2,264.0	2,200.0	2,345.0	3,468.0	6,509.0	12,397.0	17,647.0	14,234.0	10,440.0	6,618.0	4,312.0	85,572	453	2,714
	Chiang Khong	204,000	2,454.0	3,791.0	7,057.0	13,640.0 19,213.0	19,213.0	16,364.0 1	12,051.0	7,667.0	5,036.0	3,457.0	2,442.0	2,328.0	95,501	468	3,029
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Table 2.3.2 Runoff Characteristics of Major Rivers

		£	Mea	Mean Annual Runoff	off.	S. S	Maximum	Minimum	Discharge	arge
Bas	Basin and Gaging Station	Orainage Area (km²)	Wet Season (MCM)	Dry Season (MCM)	Total (MCM)	Runoff Yield (mm)	Runoff (MCM)	Runoff (MCM)	Mean (m³/sec)	Maximum (m³/sec)
1. Kok;	(GN3) Myanmar Border	2,980	1,642	498	2,140	719	3,034	1,342	89	551
	(G2A) Diversion Damsite	6,053	2,892	969	3,588	593	5,686	2,034	114	953
	(GN1) River Mouth	10,300	4,208	585	5,190	504	7,266	3,430	165	874
2. Lao;	(GN15) Confluence of Kok	3,080	715	140	855	278	1,338	424	27	t
3. Ing;	(IN.) Existing Wair	3,450	818	62	188	256	1,383	432	28	596
		5,700	1,733	149	1,882	331	3,926	823	90	1,250
4. Yao;	(N51) Confluence of Nan	774	323	57	380	491	909	199	12	380
5. Nan;	(N17) Upper Nan	1,156	577	149	726	628	1,096	452	23	1,843
		4,609	2,320	224	2,544	552	4,748	1,342	81	2,800
	1.2	13,100	4,419	705	5,124	391	8,574	3,119	163	3,378
	Sirikit Outflow	13,100	2,131	2,721	4,852	370	7,284	2,405	154	1,963
	(N12A) Uttaradit	15,718	2,891	2,466	5,375	342	10,270	2,486	171	3,300
ļ	(N5A) Phitsanulok	25,286	4,712	2,443	7,155	283	12,131	3,199	286	1,896
	(N7) Phicit	29,153	6,027	2,740	8,767	301	14,288	3,850	278	1,563
	(N14) Chung Saeng	33,197	6,838	2,348	9,186	277	15,874	3,562	292	1,448
6. Yom;	(Y14) Sukothai	12,131	2,323	204	2,527	503	2,092	840	81	•
7. Wang:	(W4A) Tak	10,507	965	412	1,077	147	2,104	408	100	445
8. Ping;	Buhmibol Inflow	26,386	4,559	989	5,245	199	8,804	2,562	167	٠
	Buhmibol Outflow	26,386	1,917	3,021	4,938	188	7,620	2,790	157	•
	(P7A) Kamphaeng Phet	42,700	4,357	3,402	7,759	103	12,221	4,184	35	2,452
9. Chao Phraya; (C ₂)	ya; (C2) Nakhon Sawan	110,569	15,367	7,099	22,466	182	36,917	11,541	246	4,712
	(C ₁₃) Chainat Inflow	119,000	16,028	188'9	22,409	188	38,771	8,587	711	4,360
	Chainat Outflow	119,000	8,595	2,196	10,791	16	26,055	2,650	343	1
	Chainat Diversion	119,000	7,433	4,185	11,618	86	14,577	5,937	369	•
10. Pasak;	Damsite	12,925	1,835	156	1,991	204	4,830	609	713	,
	Confluence of Chao Phraya	16,292	2,224	189	2,413	149	5,855	738	77	•
11. Mckong;	Chiang Sacn	189,000	67,844	17,728	85,572	453	126,682	67,850	2,714	17,600
	Chiang Khong	204,000	75,993	19,508	95,501	468	129,696	75,328	3,029	18,000

Nam Mae Kok

Casalan Mana

: Ban The Don . Fang . Chiang Mai (GN3)

Drainage Area

: 2980.0 sq.km.

Unit

: MCML

YEAR	APR	MAY.	JUN.	JUL.	AUG.	SEP.	oct.	NOV.	DEC.	JAN.	FEB.	MAR.	ANNUAL
1970	38.20	79.50	170.00	303.00	645.00	585.00	294.00	176.00	180.00	107.00	71.00	70.90	2719.60
1971	52 90	66.50	107.00	477.00	784.00	556.00	336.00	216.00	167.00	123.00	83.00	6 5.30	3033.70
1972	59.00	43.90	101.00	213.00	523.00	337.00	280.00	248.00	180.00	125.00	86.20	81.90	2283.00
1973	54.60	80.30	117.00	368.00	505.00	517.00	323.00	208.00	144.00	117.00	79.40	67.00	2580.30
1974	62 30	71.80	106.00	140.00	325.00	328.00	183.00	158.00	102.00	97.40	59.40	50.10	1683.00
1975	38.30	66.40	116.00	249.00	433.00	512.00	333.00	201.00	148.00	108.00	77.30	58.40	2340.40
1976	48.70	66 20	84.20	125.00	357.00	277.00	255.00	176.00	118.00	101.00	67.20	57.70	1733.00
1977	63 20	97.00	72.80	242 00	258.00	350.00	233.00	210.00	154.00	127.00	82 00	67.60	2011.60
1978	58.10	65.90	113.00	365 00	496.00	528.00	360.00	215.00	162.00	116.00	75.60	60.80	2615.40
1979	45.50	62 90	99.10	121.00	325.00	279.00	179.00	115.00	92.80	69.80	48.00	32 50	1469.60
1980	26.90	31.30	84.90	291.00	327.00	463.00	262 00	159.00	132.00	65.10	67.50	51 60	1961.30
1981	44 80	141.00	160.00	385.00	585.00	432.00	362.00	247.00	177.00	137.00	90.80	75.10	2836.70
1982	81 20	69.50	160.00	179.00	593.00	407.00	374.00	213.00	151.00	119.00	81.70	68.90	2497.30
1983	48.40	54 30	89.00	173.00	415.00	453.00	311.00	318.00	206.00	147.00	99.60	76.30	2390.60
1984	59 10	72.70	113.00	270.00	320.00	374.00	281.00	175.00	125.00	103.00	70.00	55.20	2018.00
1985	43.00	77 10	119.00	233.00	473.00	516.00	292.00	277.00	186.00	135.00	90.90	73.30	2520.30
1986	60.00	88.30	103.00	218.00	235.00	254.00	184.00	131.00	97.90	103.00	62 50	52.90	1589.60
1987	38.90	37.00	80.50	125.00	339.00	249.00	181.00	161.00	107.00	78.00	54 20	42 50	1493.10
1988	47.50	87.70	120.00	214.00	544.00	368.00	251.00	168.00	121.00	95.30	63.50	55.00	2135.00
1989	38 20	58.40	119.00	271.00	315.00	369.00	382.00	218.00	153.00	111.00	76.60	67.40	2178.60
1990	45.90	83.10	141.00	306.00	285 00	316.00	221.00	168.00	121.00	91.20	60.20	45.90	1884.30
1991	49.50	61.50	171 00	203.00	432 00	392.00	253.00	223.00	151.00	107.84	79.37	59.56	2182.76
1932	38.81	32.18	51.36	165 03	237.31	235 25	175.05	134 62	107.57	79.39	48.79	37.06	1342.41
1993	23.34	40 20	89.24	246.65	330.75	351.22	258 43	162 33	113.24	107.00	73.00	60.00	1855.46
TOTAL	1171.35	1639.67	2687.10	5882.69	10082 05	9448,47	6618.48	4678.00	3396.51	2570.03	1747.76	1432.91	51355.02
И	24	24	24	24	24	24	24	24	24	24	24	24	24
MEAN	43.81	68 32	111.96	245.11	100	393 69	275.77	194 92	141.52	107.08	72.82	59.70	2139.79
MAX	81 20	141.00	171.00	477.00	784 00	585.00	382.00	318.00	206.00	147.00	99.60	81 90	3033 70
MIN	23.34	31.30	51.36	121.00	235.00	235 25		115.00	92.80	65.10	48.00	32.60	1342 41

: Nam Mas Kol

Station Name

: Mae Kok Bridge, Muang, Chiang Rai (G2A)

Drainage Area

: 6053.0 sq.km.

Unit

YEAR	APR.	MAY.	. אטנ	'nir	AUG.	SEP.	OCT.	NOV.	DEC.	JAN.	F£B.	MAR.	ANNUAL
1970	77.30	166.00	339.00	581.00	1077.00	1149.00	542 00	272 00	346.00	199.00	125.00	106.00	4979.30
1971	83.00	135.00	217.00	880.00	1346 00	1149.00	724.00	396.00	273.00	209.00	148.00	126.00	5686.00
1972	125.00	94.40	167.00	286.00	886.00	607.00	566.00	484.00	350.00	215.00	147.00	138.00	4065.40
1973	99.90	142.00	198.00	601.00	1041.00	1136.00	625.00	380.00	254.00	204 00	132.00	121.00	4933.90
1974	122 00	157.00	226.00	214.00	607.00	607.00	338.00	336.00	223.00	222.00	125.00	97.70	3324.70
1975	74 30	65.50	270.00	319.10	759.00	960.00	639.00	372.00	277.00	204.00	145.00	120.00	4204.90
1976	99.70	155.00	190.00	213.00	555.00	582.00	536.00	335.00	211.00	172.00	108.00	95.50	3252.20
1977	122.00	156.00	105.00	343.00	389.00	1126.10	589.00	391.00	229.00	208.00	104.00	81.60	3843.70
1978	60.60	124.00	147.00	635.00	814.00	854 00	618.00	302.00	204.00	140.00	78.60	53.70	4030.90
1979	45.50	76.90	140.00	160.00	513.00	450.00	316.00	138.00	90.40	54.40	32.90	16.60	2033.70
1990	15.60	23.30	101.00	328.00	264.00	1000.00	371.00	245.70	272.60	78.30	46.10	24.70	2 770.30
1981	19.40	99.60	138.70	494.60	865.70	833.40	535.40	441.30	305.50	180.20	126.30	91.20	4130.70
1982	79.90	95.10	244.70	415.90	855.30	852 90	739.10	303.49	174.10	99.30	58.80	37.70	3956.20
1983	26.30	60,30	106 50	221.20	963 20	918.50	483.80	691.70	257.00	182.60	126.40	83.20	4120.70
1984	59.90	100.90	141.10	459.00	642.00	831.70	430.00	249.50	253.50	126.70	64.30	35.40	3394.00
1985	34.60	70.50	128.30	357.30	839.10	725 50	451.60	577.40	265.90	131.10	99.49	67.70	3748.40
1986	57.70	137.80	126.70	344.10	433.10	630.30	282 50	292 20	131.30	157.40	93.60	76.80	2763.5
1987	57.20	83.90	100.80	169 30	667 00	424.80	296.00	323 20	215 90	116.90	67.90	41.80	2569.70
1988	42 10	80.90	260 20	378.90	993 20	662 90	627.00	309 20	204.20	125.40	60.30	33.70	3783.0
1989	29 40	91.30	176 70	518.20	633.40	919.10	558.50	238.30	234.40	81.80	67.70	58.30	3607.1
1990	41 00	89.00	172.70	391.90	456.70	499.40	470.00	392 10	165.30	72 10	56.30	41.80	2848.3
1991	51.80	77.50	111.80	260.60	572.80	1135.90	503.80	267.60	156.20	62 10	39.30	32.60	3272.0
1992	34.50	 29.70	175.00	272.30	434.30	368.50	241.30	283.30	264 10	165.60	84.90	E6.20	2409.7
1993	41.00	91.50	184.10	320 40	378.40	464 00	379 90	277.30	106.80	69.00	40.10	32.80	2385.3
TOTAL	1499.70	2408.10	4167 30	9163 20	16990 20	18897.00	11912.90	829 3 20	5454 20	3475.90	2176.90	1670.00	86113.6
И	24	24	24	24	24	24	24	24	24	24	24	24	2
MEAN	62.49	100.34	173.64	381 80	707.93	786.96	496.37	345.76	227 68	144.83	90.70	69.68	3588.0
MAX	125.00	166.00	339.00	880.00	1346.00	1149.00	739.10	691.70	350.00	222.00	148.00	138.00	5686.0 2033.7
MiN	15.60	23,30	100.80	160.00	264.00	368 50	241 30	133.00	90.40	54.40	32 90	16.60	2033.1

: Nam Mae Kok

Station Name

: Ban Tha Kok, Mas Chan, Chiang Rai (GN1)

Drainage Area

: 10300.0 sq.km.

Unit

YEAR	APR.	МАУ.	JUN.	JUL	AUG.	SEP.	ост.	nov.	DEC	JAN.	FEB.	MAR.	ANNUAL
1970	74 00	220.40	406.00	1008.30	1234.70	1460.70	923.40	414 20	378.90	222 00	140.00	111.00	6593.60
1971	86.80	165.00	281 00	1340.00	1540.00	1490.00	907.00	579.00	358.00	245.00	156.00	118.00	7265.80
1972	116 00	95.70	165 00	277.00	1170.00	836.00	772.00	652.00	456.00	272.00	171.00	184 00	5166.70
1973	11400	152 00	239.00	816.00	1390.00	1520.00	883 00	529.00	363.00	240.00	149.00	120.00	6504 00
1974	116.00	162 00	255.00	203.00	936.00	946 00	575.00	581.00	282.00	272.00	129.00	91.50	4548.50
1975	66.10	87.00	375.00	666.00	1100.00	1390.00	971.00	503.00	345.00	197.00	135.00	102.00	5937.10
1978	80:10	132 00	170.00	169.00	751.00	786.00	926.00	525.00	256.00	228.00	110.00	88.20	4221.30
1977	129.00	185.00	93.60	465.00	596.00	1360.00	997.00	625.00	334 00	334 00	142.00	127.00	5387.60
1978	88 .50	241.00	259.00	1150.00	1730.00	1380.00	950.00	471.00	303.00	190.00	114 00	88.50	6965.00
1979	59.00	121.00	271.00	365.00	861.00	801.00	690.00	255.00	173.00	111.00	73.90	56.00	3836.90
1980	51.10	83.00	378.00	681.00	1040.00	1360.00	749.00	388.00	293.00	158.00	99 20	74.90	5355.20
1981	58.80	314 00	430.00	986.00	1250.00	978.00	781.00	636.00	363.00	235.00	134.00	104.00	6269 80
1982	144 00	122.00	312:00	387.00	1050.00	988 00	927.00	430.00	281.00	200.00	126.00	99.30	5065.30
1983	64.00	83 20	122.00	269.00	1170.00	1270.00	902 00	958.00	464.00	282.00	176.00	120.00	5880.20
1984	94 30	138.00	222.00	499.00	873 00	1060 00	857.00	416 00	277.00	178.00	114 00	78.80	4807.10
1985	88.00	172 00	254.00	425.00	1980 00	1090.00	651.00	818.00	421.00	240.00	145.00	112.00	5496.00
1986	91.90	284.00	186.00	385.00	649.00	764.00	555.00	425.00	247.00	242.00	115.00	93.80	4037.70
1987	62.10	79 20	132 00	178.00	770.00	750.00	537.00	475.00	239.00	161.40	113.50	85.20	3582.40
1988	104.20	224.70	515.70	970 50	1376.50	884.70	795.70	476.80	323.90	199.50	103.50	89.50	8065.20
1989	55.10	94 60	208.00	710.00	1179.00	1016.20	973.60	421.70	249 90	169.90	90.60	92.50	5261.10
1990	67.70	202.40	439.50	429.20	598.40	692.70	696 60	553.00	237.80	193.70	109.90	92 00	4377.90
. 1991	98 80	128 30	190.60	258 20	931.90	1400.10	793 60	403 90	235.90	174.70	112.30	88.10	4816.40
1932	58 00	75.00	250.00	318.40	598.80	531.10	497.20	448.50	284 30	175.40	105.40	87.40	3429.50
1993	56 30	162 30	208.00	429 90	603.10	713.10	613 50	397.30	231.20	93.60	88.80	88.40	3685.50
TOTAL	2023.80	3723.80	6361.40	13385.50	24468.40	25467.60	18923 60	12381.40	7456.90	5019.20	2953.10	2391.10	124555 80
N	24	24	24	24	24	24	24	24	24	24	24	24	24
MEAN	84.33	155.16	265.06	\$57.73	1019 52	1061.15	788.48	515.89	310.70	209.13	123.05	99 63	5189.83
MAX	144.00	314.00	515.70	1310.00	1730.00	1520 00	997.00	958.00	464.00	334.00	176.00	184 00	726 5 80
Min	51 10	75.00	93.60	169.00	596.00	531.10	497.20	255.00	173.00	93 60	73 90	56.00	3429.50

: Nam Mas Lao

Station Name

: Ban Tha Sal, Muang, Chiang Ral (GN15)

Drainage Area

: 3080.0 sq.km.

Unit

YEAR	APR.	MAY.	JUN.	JUL.	AUG.	SEP.	oct.	NOV.	DEC.	JAN.	FEB.	MAR.	ANNUA
1970	10.97	68.77	96.08	90.80	272.86	281.98	219.85	123.82	88.49	34.40	15.70	14 50	1318 22
1971	16.50	47.60	40.40	205.00	254 00	266.00	186.00	105.00	71.40	41.60	21.80	10.80	1266.10
1972	21.40	17.50	30.20	31.89	211.00	143.00	172.00	143.00	86.40	38.70	15.00	21.80	931.80
1973	9.65	24.30	46.20	141.00	349.00	359.00	176.00	96.40	64.00	35.20	21.10	15.70	1337.65
1974	14 50	32.10	44 60	23.20	177.00	180.00	102.00	124 00	44.00	58.30	16 20	8 27	824.17
1975	6.62	7.75	84 60	145.00	249.00	295.00	189.00	105.00	74.10	27.50	14.40	9.37	1207.34
1976	6 80	24.10	28.90	25.40	97.50	188.00	208.00	123.00	52.30	51 20	14.60	9.78	829.58
1977	23.80	38.30	7.06	63.50	91.40	244.00	212.00	129.00	61.30	75.10	22.70	14.60	982 76
1978	6.93	57.60	64 20	246.00	185.00	267.00	172.00	86 40	45.60	18.60	10.60	7.09	1167.07
1979	4 95	26.60	54.40	49.70	153.00	115.00	124.00	35.80	21.50	8.29	4.75	3.94	601.93
1980	5.05	11.70	48.90	121.00	139.00	367.00	115.00	59.10	44.70	12.10	5.72	2.96	932.23
1981	4.41	42.40	56.40	140.00	205.00	139.00	113.00	105.00	53.50	20.40	5.51	4.44	889,06
1982	21.80	19.30	53.10	54 20	94.30	179.00	125.00	59.20	29.00	16.40	6.86	4.71	662.87
1983	2 16	15.00	9.25	25.60	178.00	208.00	159.00	170.00	71.40	33.10	16.90	7.89	896.30
1984	6.78	23.30	36.70	44 60	128.00	198.00	155.00	57.50	37.90	14.60	7.55	2.87	712.80
1985	12 20	34.00	43.10	69.60	107,00	156.00	109.00	189.00	75.50	26.50	11.30	7.60	840.80
1986	11.20	91.70	38.50	71.30	125.00	166.00	119.00	78.90	47.60	45.70	13.30	6.91	815.11
1987	3.97	12.40	13.80	9.44	141.00	112.00	68.60	84.30	30.00	14 20	5.64	2.31	497.66
1983	14.40	129.00	141.00	138.00	195.00	157.00	163.00	88.90	53.00	17.30	7.22	5.00	1108.82
1989	2.75	21.70	69.40	98.10	116.00	146.00	134.00	59.20	41 20	11.50	7.94	4.81	712.60
1990	3.90	28.10	46.90	44.70	82.90	113.00	84 90	69.30	33.40	10.80	5.80	3.47	527.17
1991	9.74	11.70	27.30	17.40	108.00	223 00	77.00	68.80	28.80	10.29	3.92	3.18	589.13
1992	1 66	1.89	1.77	27 30	59.95	100 10	94.44	56 26	51 32	21.17	6 30	231	424.47
1993	284	16.91	15.73	55.52	33.05	110.70	113.91	52.57	25 31	11.62	3.09	1.18	412.43
TOTAL		803.72	1098.49	1938.16	3751.96	4713.78	3391 70	2269.45	1231 72	654.57	263 90	175.49	20517.97
N	24	24	24	24	24	24	24	24	24	24	24	24	24
MEAN	9 38	33.49	45.77	80.76	156.33	196.41	141.32	94.56	51.32	27.27	11.00	7.31	854.92
MAX	23.80	129.00	141.00	246.00	349.00	367.00	219.85	189 00	88.49	75.10	22.70	21.80	1337.55
MIN	1.66	1.89	1.77	9.44	33.05	100.10	68.60	35.80	21.50	8.29	3.09	1.18	424 47

: Mae Nam Ing

Station Name

: Khao Ing Rod , A.Chun , Phayao (IN2)

Drainage Area

: 3450.0 sq.km.

Unit

YEAR	APR.	MAY.	JUN.	JUL.	AUG.	SEP.	ост.	NOV.	DEC.	JAN.	FEB.	MAR.	ANNUAL
1970	1.00	23.60	71.70	136.00	245.00	377.00	203.00	54.70	55.60	20.30	9.03	7.11	1204.04
1971	5.81	5.71	6.89	74.60	239.00	318.00	193.00	83.50	27.10	10.30	5.56	4.53	979.00
1972	17.60	11.20	7.13	37.20	309.00	155.00	163.00	119.00	78.60	10.40	6.83	8.48	923.49
1973	6.09	5.85	22.00	122.00	337.31	245.05	197.00	54.90	18.00	11.00	5.44	3.36	1028.00
1974	2.24	7.56	21.30	17 30	245.00	232.00	122.00	149.00	27.40	54.50	13.20	4.97	896.47
1975	2.95	2 72	55.00	126.00	330.00	425.00	275.00	82 10	26.50	13.40	8.49	3.37	1350.53
1976	2.87	8.78	7.29	4.38	130.00	158.00	289.00	164.00	16.80	19.80	4.57	3.14	808.63
1977	7.32	17.50	3.33	69 30	183.00	493.00	315.00	148.00	22.50	29.90	9.80	3.74	1307.39
1978	2 22	23.90	29.00	309.00	292.00	422.00	225.00	33.80	10.50	4.34	1.23	0.84	1353.83
1979	0.69	1.89	53.90	68.60	109.00	109.00	112.00	17.80	6.85	3.00	1.53	1.89	491.15
1980	1.43	1.81	45.60	165.00	274.00	554 00	229.00	64.00	31.90	8.47	5.50	2.37	1383.08
1981	1.11	16.50	38.90	158,00	222.00	111.00	77.70	121.00	37.00	8.64	3.93	1.63	797.47
1982	8.51	5.66	15.20	24.10	58.20	129.00	173.00	24.30	4.38	2.50	1.81	1.36	448.02
1983	0.67	0.72	0.67	2.16	191.00	246.00	179,00	144.00	31.30	7.32	3.83	2.11	808.78
1984	1.07	4.51	11.10	47.00	205.00	316.00	175.00	72.80	15.80	3.30	2.48	1.24	855.30
1985	0.82	2.85	18.80	57.80	158.00	158.00	129.00	256.00	91.10	11.20	5.46	2.80	891.83
1986	1.82	31.50	6.36	31.80	165.00	222.00	110.00	64 20	20.00	18.20	5.48	3.11	679.47
1987	1.09	0.67	3.79	0.64	128.00	295.00	200.00	112.00	16.00	2.64	1.04	0.78	761.65
1988	1.04	125.00	127.00	135.00	211.00	150.00	86.20	49.70	20.00	5.54	1.44	0.79	911.71
1989	0.61	1.56	45.00	85.40	171.00	232.00	366.00	38.80	10 20	2.81	1.80	1.57	956.75
1990	1.07	7.31	21.20	92.70	194.00	186.00	80.80	106.00	18.20	3.55	1.89	1.38	714.10
1991	1.15	0.90	6.04	7.12	102.00	374.00	125.00	66.20	11.20	2.71	1.02	0.56	697.90
1992	0.19	0.39	0.43	0.46	46.15	127.61	119.47	77.03	39.75	42.54	2.85	1.57	458.49
1993	1.33	1.25	1.08	57.78	28.78	167.13	94.07	73.15	6.99	2.30	0.95	0.39	435 20
TOTAL	70.70	309.34	623.76	1829.34	4578.44	6201.79	4243.24	2174.98	643 67	298.66	105.27	63.09	21142 28
N	24	24	24	24	24	24	24	24	24	24	24	24	24
MEAN	2.95	12.89	25.99	76 22	190.77	258.41	176.80	90.62	26.82	12.44	4.39	2.63	880.93
MAX	17.60	125.00	127.00	309.00	337.31	554.00	366.00	256.00	91.10	54.50	13.20	8.48	1383.08
MIN	0.19	0.39	0.48	0.46	28.78	109.00	77.70	17.80	4.38	2.30	0.95	0.39	435.20

: Mae Nam Ing

Station Name

: A.Thoeng Chlang Rai (IN1)

Drainage Area

: 5700.0 sq.km.

Unit

YEAR	APR.	MAY.	JUN.	JUL.	AUG.	SEP.	ост.	NOV.	DEC.	JAN.	FEB.	MAR.	ANNUAL
1970	5.40	111.00	347,00	516.00	618.00	901.00	408.00	98.80	86.80	37.30	12.80	8 10	3150 20
1971	5.90	9.90	28.60	192.00	460.00	684.00	360.00	127.00	51.70	19.30	11.10	7.60	1957.00
1972	18.50	28.10	32 40	75.90	971.00	418.00	269.00	179.00	118.00	43.80	20.60	25.70	2200.00
1973	1270	28.90	94.20	277.00	1240.00	1430.00	530.00	156.00	96.00	33.60	17.80	9.60	3925.80
1974	11.50	23.40	52.60	45 90	539.00	693.00	291 00	238.00	61.60	74.30	27.00	11.40	1968.60
1975	5.10	10.70	148.00	278.00	796.00	831.00	457.00	133.00	67.40	28.30	19.60	7.70	2771.80
1976	6.80	24.50	21.60	23.40	231.00	261.00	550.00	227.00	41.90	41.70	11.20	7.50	1447.60
1977	20.90	38.90	12 90	126.00	404.00	835.00	632.00	262.00	62.00	65.10	20.80	10.80	2490.40
1978	10.00	40.60	. 88.90	569.00	632.00	784.00	358.00	87.00	32.70	16.10	7.20	4.50	2630.00
1979	4 10	28.70	121.00	123.00	243.00	221.00	147.00	37.30	17.50	7.90	4.10	3.30	957.90
1980	3.30	4 60	81.50	345.00	701.00	1150.00	478.70	116.00	61.00	21.60	11.00	4.70	2978.40
1981	7.60	43,60	62 80	412.00	496.00	302.00	133.00	182.00	77.80	21.90	10.30	5.70	1754.70
1982	30.90	18,60	39.40	51.90	155.00	279.00	343.00	68.80	21.50	10.70	6.40	4.60	1029.80
1983	2 20	7.80	5.30	25.80	372.00	516.00	356.00	215.00	67.50	21 80	10.90	5.80	1606.10
. 1984	6 10	30.80	43.40	151.00	482.00	697.00	245.00	149.00	40.30	1260	7.10	3.90	1868 20
1985	8.30	22.60	45.40	118.00	539.00	340.00	184.00	363.00	190.00	27.80	13.00	7.70	1858.80
1986	9.00	61.40	17.70	117.00	313.00	362.00	201.00	120.00	41.20	34.30	12.00	7.40	1296.00
1987	4 90	8.70	10.50	10.90	233.00	476.00	413.00	166 00	39.70	12.40	6.90	3.40	1385.40
1938	6.4 0	196.00	168.00	185.00	441.00	279.00	157.00	88 10	37.30	12.00	4.80	2.60	1577.20
1989	1.60	15.50	85.10	219.00	258.00	414 00	573.00	96.10	30.00	1280	9.00	6.50	1720.60
1990	4 50	13.60	38.10	168.00	463.00	266.00	142.00	160.00	41.00	11.20	5.90	3.70	1317.00
1991	5.40	19.40	41.30	54.10	243.00	630.00	273.00	134.00	33.40	12.40	7.10	4.90	1458.00
1992	2.60	1.50	1.70	16.40	103.50	200.10	207.30	123.30	68.50	67.70	8.90	21.40	822.80
1993	39.00	44.40	44.40	185.70	110.20	271.20	155.20	110.00	28.10	8.00	6.00	5.40	1006.60
TOTAL	232 60	833.20	1631 80	4286.00	11043.70	13140.30	7863.20	3636.40	1402.80	654.60	270.60	183.80	45178.90
N	24	24	24	24	24	24	24	24	24	24	24	24	24
MEAN	9 69	34 72	67.99	178 58	460 15	547.51	327.63	151 52	58.45	27.28	11.27	7.66	1882.45
MAX	39.00	196.00	347.00	569.00	1240.00		632.00	363.00	190.00	74 30	27.00	25.70	3925.80
MIN	1.60	1.60	1.70	10.90	103.50	200.10	133.00	37.30	17.50	7.90	4 10	2.60	822.80

: Mae Nam Ing

Station Name : Ban Pra Mong, A.Muang, Phayso (IN3)

Drainage Area : 1210.0 sq.km.

Unit

YEAR	APR.	MAY.	JUN.	JUL.	AUO.	SEP.	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	ANNUAL
1970	2.66	2.51	6.01	24.78	37.72	99.99	71.95	20.38	8.42	8.32	1.71	1.53	285.98
1971	2.25	2.77	2.49	6.56	44 00	85.10	59.80	43.00	12.20	5.06	2.37	2.15	267.75
1972	2.09	1.91	1.27	1.19	36.50	53.20	49.00	44.20	27.60	7.81	4.55	5.00	234.32
1973	2.01	2.69	7.63	16.50	183.00	201.00	65.00	20.40	14.30	19.20	5.87	0.96	538.56
1974	0.90	4.14	26.20	13.30	53.20	55.50	37.70	56.30	14.70	14.30	6.01	3.69	285.94
1975	3.75	10.30	3.83	14.60	90.00	95.00	83.10	18.10	9.50	8.54	4.33	0.51	341.56
1976	1.91	5.33	7.95	3.16	16.50	30.00	75.10	52.80	4.02	3 27	1.21	1.00	202.25
1977	1.94	19.40	11.00	10.40	16.90	118.00	87.10	57.40	3.94	7.34	6.11	5.90	345.43
1978	5.72	8.60	12.40	66.90	68.10	97.80	57.90	10.70	1.68	1.71	1.07	0.88	333.46
1979	2.14	3.64	5.67	8.68	11.70	28.80	19.50	4.04	3.58	1.33	1.21	2.35	92.64
1980	2.86	4.87	13.00	33.10	44.40	160.00	55.80	19.00	4.77	4.51	1.78	0.83	344.92
1981	2.18	25.47	8.11	26.35	41.75	26.03	20.93	47.79	6.99	4.13	2.06	4.90	216.69
1982	4.77	1.77	7.73	13.98	5.94	35.61	27.55	8.23	1.96	2.74	2.78	2.40	115.46
1983	1.86	1.64	7.49	13.47	16.87	63.82	34.34	56.26	8.93	4.30	1.27	3.22	213.47
1984	2.38	3.38	1.50	4.03	23.09	90.64	55.04	34.64	10.52	3.83	1.02	1.31	231.38
1985	4.03	2.73	2.73	3.22	16.56	40.46	54.43	83.17	21 39	9.72	4.72	1.10	244 26
1986	1.51	1.89	7.25	13.00	19.18	53.69	17.81	22.85	6 21	2.64	1.73	2.60	150.36
1987	1.36	2.38	3.21	12.00	20.33	66.40	66.76	39.60	9.18	1.86	1.20	1.55	225.83
1988	3.80	8.48	10.28	14.09	31.94	31.53	35.85	17.77	10.10	4.19	1.71	0.39	170.13
1989	1. 52	8 20	13.29	29.45	49.56	48.55	74.48	10.39	3.18	1.46	0.99	0.92	241.99
1990	1.43	5.40	3.06	5.42	19.35	38.66	8.91	39.37	5.40	3.56	1.46	3.08	135.10
1991	2.97	2.63	2.06	3.50	8.93	80.11	33.12	18.99	4.88	4.33	1.49	0.70	163.71
1992	2.32	1.47	2.70	17.00	5.92	19.46	24.83	35.26	12.74	7.06	1.89	1.84	132.49
1993	2.41	2.26	1.36	6.16	3.88	43.63	40.22	24.57	3 07	1.77	0.61	5.03	134.97
TOTAL	60.77	133.86	168.22	360.84	865.32	1662.98	1156.22	785.21	209.26	132,98	59.15	53.84	5648.65
N	24	24	24	24	24	24	24	24	24	24	24	24	24
MEAN	2.53	5.58	7.01	15.04	36.06	69.29	48.18	32.72	8.72	5.54	2.46	2 24	235.36
MAX	5.72	25.47	26.20	66.90	183.00	201.00	87.10	83.17	27.60	19 20	6.11	5.90	538.56
MIN	0.90	1.47	1.27	1.19	3.88	19.46	8.91	4.04	1.68	1.33	0.61	0.39	92.64

: Huai Nam Yao

Station Name

: Ban Wang Hit, A.Tha Wang Pha, Nan (N51)

Dreinage Area

: 774.0 sq.km.

Unit

VII.1	-									B. OLIVE DELIVERATION OF THE PARTY OF THE PA	THE PARTY NAMED IN COLUMN		
YEAR	APR.	мач.	JUN.	JUL.	AUG.	SEP.	oct.	NOV.	DEC.	JAN.	FEB.	MAR.	ANNUAL
1970	3.05	6.58	21 32	43.89	99.75	131.65	55.46	31.17	19.07	12.54	7.28	6.80	438.56
1971	3.55	16.31	37.11	123.79	111.05	100.68	47.21	20.31	14.39	10.29	6.85	4.65	496.19
1972	4.91	6.31	13 26	29.25	101 26	81.17	38.51	28.18	19.84	13.35	7.64	6.74	350.42
1973	10.15	27.14	21.04	56.50	65.91	26.39	27.57	15.52	9.86	6.97	5.42	5.71	278.18
1974	10.70	14.06	41.77	108.12	71.87	48.95	35.61	22.97	15.36	11.38	6.98	5.06	392.83
1975	4.68	8.32	13.49	64.36	64.70	71 26	26.75	22.34	15.31	12.46	8.02	6.73	318.42
1976	8.47	22.00	21.41	36.10	45.41	58.16	29.00	16 23	11.91	7.07	5.15	4.37	265.28
1977	4.08	9.63	20.29	91.35	119.37	62.88	37.34	21.14	13.42	10.67	8.11	5.47	403.75
1978	6.08	19.47	27.24	98.36	93.81	111.25	67.98	24.93	15.32	11.09	6.69	4.46	486.68
1979	3.54	9.89	30.90	26.30	104.00	53.80	25.30	13.90	9.62	5.82	4.16	3.60	290.83
1980	3.44	5.11	36.60	84.80	76.90	159.00	46.00	23.00	16.00	10.20	6.25	4 69	471.99
1981	6.10	25.80	36.00	132.00	108.00	106.00	41.80	28.40	19.70	15.50	9.83	7.25	536.38
1982	11.10	12.00	22.30	53.60	90.00	109.00	76.50	26.60	17.50	12.40	6.13	4.13	441.26
1983	2 20	10.40	11.80	46.50	101.00	150.00	76.50	34.60	19.70	14.00	10.20	6.58	483.48
1984	5.32	12.80	32.80	142.00	146.00	142.00	55.60	25.80	17.80	12.70	7.61	5.81	606.24
1985	11 20	9.70	15.23	55.48	151.03	59.35	23.78	21.03	13.47	8.79	5.18	3.48	377.72
1986	6 26	16.41	13 23	51.98	49.62	45.33	30.09	20.92	14.06	9.67	6.78	5.87	270.22
1987	472	6.59	14.09	16.57	42.41	27.90	22.02	23.49	16.10	12.08	7.49	5.37	198.83
1988	5.70	14.92	20.45	100.63	129.85	70.31	27.86	17.15	12.12	8.20	6.02	6.11	419.32
1989	4 23	9.54	17.68	50.23	£0.68	78 21	33.59	16.43	11.72	9.22	7.22	7.59	296.34
1990	4.13	7.37	22.64	63.20	68.44	44.60	29.70	20.38	12.03	8.73	5.59	4.72	291.53
1991	6.17	21.62	25.45	40.89	63.72	72.72	30.19	16.52	12.18	8.65	6.88	5.58	310.57
1992	4 23	19.79	ia:	93.40	69.84	59.10	40.65	17.75	12.49	9.02	6.09	5.49	363.39
1993	6.23	9.10	15.00	46.89	86.50	92.15	25.03	13,90	10.36	8.20	5.15	5.93	324 44
1993	0.23	3.10	10.00							······································			·
TOTAL	140 24	320.86	556.64	1656.19	2111.12	1961.86	950.04	522 66	349.33	249.00	162.72	132.19	9112.85
N	24	24	24	24	24	24	. 24	24	24	24	24	24	24
MEAN	5.84	13.37	23.19	69.01	87.96	81.74	39.59	21.78	14.56	10.38	6.78	5.51	379.70
MAX	11.20	27.14	41.77	142.00	151.03	159.00	76.50	34.60	19.84	15.50	10.20	7.59	606.24
MIN	2 20	5.11	11.80	16.57	42.41	26.39	22.02	13.90	9.62	5.82	4.16	3.48	198.83

: Mae Nam Nan

Station Name

: Ban Mon , A.Thuang Chang , Nan (N17)

Drainage Area

: 1156.0 sq.km.

Unit

YEAR	APR	. МАҮ.	JVN.	JUL	AUG.	SEP.	OCT.	NOV	DEC.	JAN	FEB	MAR.	ANNUAL
1970	5.11	12.00	128.00	116.00	213.00	168.00	45.60	18.80	13.70	8.01	5.56	5.38	739.16
1971	3.68	9.58	38.20	142.00	230.00	93.90	42,30	22.30	16.50	12.90	8.93	8.28	634.57
1972	10.40	11.20	16.30	37.50	266.00	84.00	54.29	45.20	32.90	25.00	18.00	23.90	624.69
1973	18.20	26.60	39.50	112.00	369.00	222.00	81.60	38.00	27.40	21.80	15.70	15.60	987.40
1974	20.10	29.30	56.70	61.50	169.00	113.00	54.20	21.72	24.90	26.80	19.28	18.50	615.00
1975	11.40	23.80	69.00	122 00	235.00	213.00	97.50	52.40	37.10	29.90	24.30	21.10	936.50
1976	22.00	25.80	45.70	80,00	143.00	133.00	86.90	44.00	27.70	27.00	16.10	16.30	667.50
1977	20.00	40.50	24.40	101.00	161.00	108.00	48.90	40.00	23.50	21.00	16.20	14.90	619.40
1978	15.10	26.30	40.10	272.00	160.00	178.00	77.10	33.50	24.80	19.50	14.50	12.20	873.10
1979	10.70	18.20	67.80	36.70	126.00	76.80	38.40	22.40	18.10	14.90	11 20	10.50	451.70
1980	11.60	12.40	50.50	144.00	147.00	216.00	72.30	38.60	30.70	23.80	17.10	15.40	779.40
1931	18.10	71.50	69.60	312 00	164.00	166.00	78.50	59.06	46.52	42.50	33.60	34.90	1096.28
1992	39.10	40.40	46.20	81.10	124.00	161.00	108.00	53.30	40.80	36.50	29.20	29.50	789.10
1983	30.00	36.50	38.80	69.30	146.00	136.00	105.00	62.90	42.90	35.30	28.80	25.90	757.40
1984	24.70	32.90	39.00	131.00	179.00	189.00	118.00	51.70	37.90	32.70	25.70	25.20	886. 80
1985	32.00	35.60	46.10	102.00	192.00	124.00	63.40	61.90	41.50	32.10	24.90	23.20	778.70
1986	26.50	75.30	38.50	84.70	118.00	80.60	57.60	38.30	30.90	27.50	22.20	22.40	622.50
1987	20.70	22.90	30.00	32.80	77.80	66.90	54.90	58.90	32.70	24.60	20.30	18.70	461.20
1988	21.17	41.81	49.71	103.04	234.38	68.94	48.50	31.65	26.56	22.27	17.09	16.18	681.30
1989	23.52	24.30	45.60	96.49	132 19	107.32	73.52	39.88	31.12	29.61	23.24	24.59	651.38
1990	27.11	28.95	44.41	167.17	169.11	64 62	46 97	42.53	32.63	22.59	16.68	17.94	680.71
1991	25.40	53.00	63.34	83.25	154.32	149.02	110 19	37.50	37.14	30.47	22.73	21.46	787.82
1992	20.65	25.10	21.38	132.27	117.60	87.74	61 41	54.63	40.19	32 34	26.23	22.28	641.82
1993	23.40	30.77	37.38	155 10	105.55	84.9 5	68 49	42.98	40.19	28.84	21.71	26.66	666.02
TOTAL	480.64	754.71	1146.22	2774.92	4132.95	3097.79	1693.57	1012.15	758.35	627.93	479.25	470.97	17429.45
N.	24	24	24	24	24	24	24	24	24	24	24	24	24
MEAN	20.03	31.45	47.76	115.62	172.21	129.07	70.57	42 17	31.60	26.16	19.97	19.62	726.23
MAX	39.10	75.30	128.00	312.00	369.00	222.00	118.00	62.90	46.52	42 50	33.60	34.90	1096 28
MIN	3.68	9 58	16.30	32.80	77.80	64.62	38.40	18.80	13.70	8.01	5.58	5.38	451.70

: Mas Nam Nan

Station Name

: Forestry Office , A.Muang , Nan (N1)

Drainaga Area

: 4609.0 sq.km.

Unit

		1.72											
YEAR	APR.	MAY.	JUN.	JUL.	AUG.	SEP.	ост.	NOV.	DEC.	JAN.	FEB.	MAR.	ANNUAL
1970	72.00	104.10	6 92. 00	659.00	1130.00	1647.00	294.00	164.00	34.90	26 50	12 30	11.90	4747.70
1971	12.70	31.50	183.00	739.40	1247.00	377.00	176.00	40.30	32 30	17.50	10.60	8.70	2876.00
1972	15 20	21.60	43.90	197.00	1198.00	178.00	118.00	48.00	28.00	14.30	9.40	17.00	1883.40
1973	8.60	26 20	92 90	400.00	907.00	718.00	214.00	61.90	29.40	17.40	9.80	9.50	2494.70
1974	18.50	58.70	96.80	116.00	452.00	316.00	132.00	62.70	36.40	24.50	14 20	13.90	1341.70
1975	6.90	25.30	220.00	477.00	1064 00	720.00	270.90	77.40	38.80	26,40	14.40	10.40	2951.50
1976	11.50	17.80	116.00	211 00	649.00	538.00	274.00	66.40	41.50	30.10	12.60	11.00	1978.90
1977	16,10	49.40	25.40	244.00	522.90	311.00	120.00	68.20	36.70	20.30	12.40	10.60	1437.00
1978	13.10	25.20	174.00	372 00	694.00	570.00	193.00	41.70	27.50	13.40	9.70	8.00	2141.60
1979	34.40	62 60	240.00	185.00	633.00	270.00	139.00	87.30	64.10	60.80	38.90	44 90	1850.00
1990	54.70	84.00	404.00	918.00	712.00	1272 00	278.00	122.00	85.30	57.4 0	32.60	23.60	4043,60
1981	31.40	119.00	184.00	1404.00	908.00	675.00	290.00	134.00	77.30	53.60	32.90	24 70	3933.90
1982	52.50	51.80	102.00	453.00	686.00	843,00	\$06.00	132.00	. 83.40	59.60	31 20	24.20	3004 70
1983	17.80	61.80	92.40	444.00	941.00	859.00	569.00	222.00	102.00	54.80	30.80	18.00	3412.60
1984	22.10	110.00	186.00	870.00	1203.00	1134.00	391.00	133.00	76.50	40.10	23 20	15.50	4204.40
1985	40.70	44.00	108.40	394 90	1236.20	535.90	188.90	164.60	87.30	51.90	29.70	24.00	2906,50
1986	35.40	184.80	166.70	481.40	461.40	333.20	176.40	96.40	52.60	36.00	25.60	22.60	2072.50
1997	16 30	25.50	56 20	82.90	417.40	283.60	186 60	120.90	64.80	39.80	26.80	23.20	1344.00
1988	21.10	84 30	130.90	394.80	849.20	298.20	158.80	72.90	40.90	26.40	19.60	19.60	2116.70
1989	14.80	61.70	113 30	414.90	491.00	615.10	262 60	96.30	54.10	35.40	27.60	31.40	2218.20
1990	24.60	59.90	155.20	493.50	557.70	430.90	201.40	129.80	67.60	40.70	22 60	21.10	2205.00
1991	22 80	99.00	136.10	277.10	566.40	513.00	227.60	98.70	63.60	38.00	22 10	20.00	2084.40
1992	15.00	15.40	32 70	283 20	414.10	405.70	230.70	119.10	114 10	65.00	36.30	45.50	1776.80
1993	38.30	60,40	105.50	656.50	411.90	310.60	200.50	91 70	46.56	37.20	25.10	32.40	2016 66
TOTAL	616.50	1434 00	3757.40	11168 60	18332 20	14154 20	5793.40	2451.30	1385.66	877.10	530.40	491.70	61047.46
N	24	24	24	24	24	24	24	24	24	24	24	24	24
MEAN	25.69	61.83	156.56	465.36	763 84	689.76	241 60	102.14	57.74	36.55	22.10	20.49	2543.64
MAX	to a first of the	184 80	692.00	1404.00	1247.00	1647.00	569.00	222.00	114 10	65.00	38.90	45.50	4747.70
MIN	6.90	15.40	25.40	82.90	411 90	178.00	118.00	40.30	27.50	13.40	9.40	8.00	1341.70

: Mae Nam Nan

Station Name

: Ban Hat Phai (NRA)

Drainage Area

: 15,718 km²

Unit

YEAR	APR.	MAY	JUN.	JUL.	AUG.	SEPT.	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	ANNUAL
1969	38.40	65.50	437.00	1,009.00	1,584.00	722.00	350.00	268.00	116.00	72.40	46.10	40.80	4,749.20
1970	73.60	280.00	697.00	1,520.00	3,293.00	3,006.00	699.00	262.00	177.00	115.00	74.90	72.30	10,269.80
1971	56.80	169.00	87.40	239.00	1,150.00	1,276.00	322.00	145.00	145.00	113.00	100.00	135.00	3,938.20
1972	121.00	265.00	371.00	684.00	822.00	414.00	327.00	250.00	66.80	49.40	141.00	249.00	3,760.20
1973	142.00	166.00	81.60	439.00	360.00	182.00	80.10	183.00	45.60	117.00	45.30	246.00	2,087.60
1974	532.00	491.00	435.00	690.00	877.00	626.00	469.00	309.00	273.00	276.00	304.00	499.00	5,781.00
1975	638.00	483.00	408.00	718.00	1,011.00	1,300.00	1,056.00	521.00	474.00	333.00	497.00	742.00	8,181.00
1976	922.00	935.00	895.00	675.00	710.00	754.00	603.00	539.00	624.00	606.00	617.00	777.00	8,657.00
1977	755.00	802.00	773.00	768.00	797.00	319.00	292.00	536.00	244.00	166.00	223.00	415.00	6,090.00
1978	453.00	228.00	277.00	477.00	514.00	578.00	452.00	353.00	457.00	480.00	565.00	952.00	5,786.00
1979	903.00	822.00	515.00	577.00	743.00	465.00	499.00	533.00	306.00	206.00	168.00	274.00	6,011.00
1980	278.00	319.0	244.00	229.00	206.00	792.00	492.00	324.00	352.00	474.00	584.00	734.00	5,028.00
1981	801.00	739.00	785.00	701.00	1,348.00	597.00	464.00	540.00	344.00	450.00	614.00	829.00	8,212.00
1982	944.00	636.00	299.00	504.00	688.00	321.00	292.00	345.00	282.00	475.00	687.00	696.00	6,069.00
1983	1,090.00	688.00	286.00	520.00	376.00	207.00	126.00	72.70	48.90	165.00	47.10	816.00	4,442.70
1984	792.00	500.00	293.00	357.00	682.00	888.00	311.00	522.00	151.00	441.00	712.00	1,093.00	6,742.00
1985	1,042.00	605.00	287.00	287.00	214.00	340.00	92.80	126.00	115.00	191.00	593.00	917.00	4,809.80
1986	780.00	759.00	727.00	608.00	405.00	362.00	442.00	735.00	237.00	332.00	776.00	762.00	6,925.00
1987	750.00	676.00	321.00	481.00	475.00	206.00	100.00	178.00	35.70	170.00	560.00	445.00	4,397.70
1988	234.00	190.00	98.60	209.00	169.00	218.00	207.00	139.00	60.40	182.00	355.00	424.00	2,486.00
1989	611.00	631.00	148.00	203.00	482.00	519.00	203.00	290.00	86.10	219.00	402.00	793.00	4,587.10
1990	770.00	663.00	516.00	443.00	490.00	617.00	354.00	339.00	176.00	210.00	530.00	729.00	5,837.00
1991	627.00	339.00	148.00	328.00	382.00	112.00	175.00	249.00	135.00	194.00	338.00	476.00	3,503.00
1992	432.00	286.00	60.40	75.90	83.40	181.00	57.80	276.00	267.00	187.00	440.00	630.00	2,976.50
1993	459.00	408.00	299.00	397.00	810.00	369.00	108.00	458.00	134.00	151.00	229.00	265.00	4,087.00
1994	143.00	144.00	157.00	85.20	393.00	538.00	235.00	489.00	345.00	304.00	611.00	901.00	4,345.20
Average		472.67	371.00	508.62	733.25	611.88	338.80	345.45	219.13	256.88	390.75	573.54	5,375.40

Station Name

: Mae Nam Khwas Noi at Confluence with Mae Nam Nan

Dreinege Area

: 5775 sq.km.

Unit

							many and the state of the state of	-				Printer Street, Street, and St. Walter	
YEAR	APR.	MAY.	JUN.	JUL.	AUG.	SEP.	OC7.	NOV.	DEC.	JAN.	PEB.	MAR.	ANNUA!
1970	15.36	59.93	151.50	435.09	716.78	816.80	454.71	183.78	67.31	30.81	16 25	18.78	2967.10
1971	16.08	43.68	78 28	133 57	333.60	457.88	279.37	105.92	64.57	34.18	27.64	38.40	1613.17
1972	48.32	60.35	107.61	140.32	211.85	146.86	167.54	91.58	37.56	12.49	26.38	49.53	1099.37
1973	39.25	38.19	62.46	106.77	190.96	278.74	201.72	83.56	52.12	32.92	14 03	36.29	1137.00
1974	104 24	115.63	98.96	141.37	296,04	266.50	179.56	181.67	105.50	78.92	69.63	109.09	1747.11
1975	117.11	126.18	166.69	229.99	351.11	712.98	556.63	218.18	163.11	96.43	120.69	155.72	3014.83
1976	164.58	205.94	193.70	165.22	286.54	465.48	491.64	257.64	164.37	130.61	117.11	145.44	2789.26
1977	152.34	190.11	164.58	181.89	234.43	440.37	221.98	152.34	103.60	68.79	59.71	88.20	2058.34
1978	100.86	80.60	82.50	286.12	406.18	411.88	538.69	179.56	143.06	109.93	115.00	182.94	2637.34
1979	184.00	181.46	207.63	161.42	245.82	242 65	171.55	144.96	100.02	55.92	36.71	53.60	1785.73
1980	61.61	89.04	139.84	205.94	347.10	661.92	392.89	124.49	119.22	85.25	101.91	132.93	2461.15
1981	156.99	214.38	228.73	308.70	598.20	309.12	194.55	182.10	147.91	110.99	127.02	172.18	2750.86
1982	190.96	150.23	99.80	119.01	178.09	319.67	282.96	166.90	120.48	113.94	125.97	130.40	1998.42
1983	207.63	168.17	. 99.38	126.18	169.86	258.06	246.87	174 29	97.06	63.72	98.75	159.73	1869.71
1984	150.45	116.26	178.93	129.98	181.25	335.50	298.78	190.54	109.72	104 66	128.92	191.38	2116.37
1985	207.14	152 80	110.50	170.07	195.13	250.55	294.85	327.07	175.46	67.72	97.94	161 03	2210 25
1986	140.44	205.71	247 64	197.86	176.01	204.45	85.16	140.81	110.01	59.27	132.80	124 91	1826.06
1987	115.20	11961	90.50	70.17	151.72	198.12	207.82	83.73	77.10	44.98	88.43	76.74	1324.11
1988	33 99	149.37	77.06	105.38	120.32	89.85	135 25	67.09	70.43	42.03	38 52	33.10	962.39
1989	70.40	142 61	185 81	90.82	74.47	146.15	83.61	70.14	68.27	47.24	58.08	118.69	1156.28
1990	113.81	158.56	317.13	185.66	133 64	27477	150.20	89.81	87.86	38,60	84 27	124.97	1759 28
1991	106.36	84 18	67.66	63.89	196.90	235.26	129.98	69 97	71.16	42.94	48.05	56.50	1172.88
1992	53.15	32 28	20.91	28.93	150.63	120.61	123 11	58.77	75.60	27.97	46.79	73.63	812 39
1993	84.63	101.43	111.75	88.77	146.92	240.42	63 32	86.20	73.37	29.46	44.02	58.79	1129.06
TOTAL	2634.88	2986.71	3288 57	3873.10	6093 55	7884 57	5953.75	3431 11	2404 86	1529.74	1824 63	2492 95	44398,42
N	100	24	24	24	24	24	24	24	24	24	24	24	24
MEAN	109.79	124.45	137.02	161.38	253.90	328.52	248.07	142.96	100 20	63.74	76.03	103.87	1849.9
MAX	207.63	214 38	317.13	435 09	716.78	816.80	556.63	327.07	175.46	130.61	132.80	191.38	3014.83
MIN	15.36	32 28	20.91	28.93	74.47	89.85	63.32	58.77	37.56	12.49	14.03	18.78	812.35

: Mae Nam Nan

Station Name

: Muang Phitsanulok (N5A)

Drainage Area : 25,286 km²

Unit

YEAR 1969	APR.	MAY	JUN.	JUL,									
1969	~~		a de de la company	001 <i>i</i> ,	AUG.	SEPT.	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	ANNUAL
	35.40	43.40	444.20	1,001.30	1,828.40	1,240.30	569.60	409.60	243.10	134.20	65.50	52.90	6,067.90
1970	74.70	278.50	692.60	2,015.70	1,935.90	4,450.40	<u>-</u>	•		145.90	93.50	79.80	9,767.00
1971	99.60	221.10	337.50	704.30	1,704.70	1,998.10	1,129.10	537.20	241.90	135.90	113.50	140,90	7,363.80
1972	158.50	246.00	467.00	643.40	915.10	592.30	603.30	329.80	118.80	65.70	134.90	259.00	4,533.80
1973	170.30	189.90	235.10	469.00	775.90	996.90	588.40	283.40	179.10	131.70	55.30	178.00	4,253.00
1974	492.30	530.30	434.70	665.60	1,395.60	1,129.30	695.00	601.00	407.90	338.80	306.00	509.00	7,505.50
1975	498.90	516.00	661.70	985.00	1,600.60	2,864.80	1,933.60	795.90	640.20	406.20	540.30	688.20	12,131.40
1976	825.60	50.30	907.00	698.60	1,178.60	1,770.20	1,517.60	821.20	679.20	569.60	546.50	690.80	10,255.20
1977	698.50	863.60	748.60	837.90	1,030.80	1,518.10	653.00	609.20	428.20	260.10	248.20	403.70	8,299.90
1978	472.80	325.20	345.10	1,118.70	1,725.40	1,658.30	1,611.50	530.40	587.40	454.40	518.70	850.10	10,198.00
1979	816.86	769.39	736.85	663.52	985.39	881,29	680.00	612.40	409.46	258.70	191.92	282.37	7,288.15
1980	287.80	387.70	600.70	660.20	1,269.10	2,571.80	1,067.60	370.10	451.30	375.70	472.10	598.00	9,012.10
1981	674.40	937.80	959.10	1,278.30	2,198.00	1,073.70	735.50	725.00	517.70	451.10	563.60	747.20	10,861.40
1982	890.46	681.30	393.59	507.75	747.60	1,095.80	718.93	498.39	460.16	491.06	564.78	609.98	7,659.80
1983	1,020.26	762.10	387.26	506.91	554.00	828.44	700.75	352.39	259.11	207.97	420.65	744.02	6,743.86
1984	738.61	507.89	662.55	463.20	759.81	1,373.00	993.14	657.47	391.82	470.53	617.54	946.05	8,581.61
1985	1,009.10	663.50	405.00	629.70	624.60	855.90	885.40	634.60	472.80	264.70	435.50	782.80	7,663.60
1986	678.53	905.80	1,090.02	835.93	701.36	793.78	339.75	645.41	456.27	317.97	671.38	609.12	8,045.32
1987	566.70	567.70	386.80	322.10	655.10	585.80	350.60	243.10	244.10	187.80	447.30	354.20	4,901.30
1988	152.18	596.41	302.77	401.13	356.10	226.72	309.54	112.74	253.68	187.79	169.44	130.02	3,198.52
1989	360.66	646.45	573.33	328.27	312.30	574.52	216.03	251.74	257.99	231.31	309.11	591.33	4,653.04
1990	516.80	699.50	1,180.80	637.00	457.30	1,049.00	452.10	331.70	336.20	191.90	403.60	567.90	6,823.80
1991	550,20	406.30	282.80	308.70	867.10	674.50	382.10	230.40	287.30	200.10	236.60	275.30	4,701.40
1992	268.30	206.02	155.68	144.36	560.37	457.95	277.27	115.36	303.68	122.56	247.84	361.34	3,223.73
1993	387.11	443.55	434.17	374.77	624.35	813,12	140.38	348.81	269.72	138.79	197.99	270.73	4,443.49
1994	127.70	333.50	945.50	479.40	1,194.50	1,955.30	463.00	408.50	481.60	277.60	495.80	687.40	7,849.80
verage	483.16	491.51	564.25	680.03	1,036.85	1,308.82	720.53	458.23	375.15	269.93	348.75	477.31	7,154,75

: Mae Nem Nan

Station Name

: A.Musag , Phichit (N7)

Drainage Area

: 29153 eq.km.

Unit

YEAR	APR.	МАУ,	JUN.	JUL	AUG.	SEP.	OC7.	NOV.	DEC.	JAN.	F Z9 .	MAR	LAUNNA
1970	72 80	284 00	718.00	2062.00	3397.00	3871.00	2155.00	871.00	319.00	146.00	77.00	83.00	14061.80
1971	76 20	207,00	371.00	633 00	1581.00	2170.00	1324 00	502.00	306.00	162 00	131.00	182.00	7645 20
1972	229.00	286.00	510.00	665.00	1004 00	696.00	794 00	434.00	178.00	59.20	125 00	230.00	5210.20
1973	186.00	181.00	296.00	506.00	905 00	1321.00	956.00	396.00	247.00	156.00	66,50	172.00	6388.50
1974	494 00	548.00	469.00	670.00	1403 00	1263.00	851 00	861.00	500.00	374.00	330 00	517.00	8280 00
1975	555 00	593.00	790.00	1090.00	1664.00	3379.00	2638.00	1034 00	773.00	457.00	572.00	738.00	14288 00
1976	780.00	976.00	918.00	783 00	1358.00	2206.00	2330.00	1221 00	779.00	619.00	565.00	694 00	13219.00
1977	722 00	901.00	780 00	862 00	1111.00	2087.00	1052.00	722 00	491.00	326.00	283.00	418.00	9755.00
1978	478.00	382.00	391.00	1356 00	1925 00	1952 00	2553.00	851.00	678.00	521.00	545 00	867.00	12499.00
1979	872 00	860.00	984 00	765.00	1165.00	1150.00	813.00	687.00	474.00	265.00	174.00	254.00	8463.00
1990	292 00	422.00	658.00	976.00	1645.00	3137.00	1862 00	590.00	565.00	404.00	483.00	630.00	11664.00
1981	744.00	1016.00	1084.00	1463.00	2835.00	1465 00	922.00	863.00	701.00	526.00	£03 00	816.00	13037.00
1982	905.00	712 00	473.00	564 00	844 00	1515.00	1341.00	791.00	571.00	540.00	597.00	618 00	9471.00
1983	99100	797.00	471.00	598.00	806.00	1223.00	1170.00	826.00	450.00	302.00	468.00	757.00	8861.00
1984	713.00	551.00	848.00	616.00	859 00	1590.00	1416.00	903.00	520.00	495.00	611.00	907.00	10030.00
1985	931.69	724.15	523.71	805.98	921.76	1187.40	1397.39	1580.07	831 53	320.92	464.16	763.14	10174.90
1986	665.57	974.89	1173.62	937.70	834 17	968.96	408.31	667.33	521.35	280.88	629.38	591.97	8554.13
1987	545.94	566 87	428.89	332.58	719.05	938.92	984 92	396.84	365.39	213.18	419.07	363.67	6275.29
1988	151.07	707.90	365 21	499.42	570.21	425.82	640.98	317.97	333.78	199.19	182.56	155.89	4560.99
1983	333.63	675.86	890.61	430.42	352 92	692.64	396 26	332.40	323.54	223.86	2 75 2 7	562.48	5479.89
1990	539.37	751.45	1502 94	879 91	633.36	1302 19	711.83	425.62	416.39	182 93	399.38	592 27	8337.64
1991	504.07	398 95	320.65	302 80	933.17	: 1114.94	616.03	331.61	337.24	203.52	227.70	267.77	5858.45
1992	251.89	153 00	99.09	137.10	71387	571.62	583,45	278.54	358.31	132.55	221.77	348.94	3850.12
1993	401.10	480.70	529.60	420.70	696 30	1139.40	300.10	408 50	347.70	139 60	208.60	278.60	5350.90
TOTAL	12487.32	14154.77	15685.32	18355 58	28878 B1	37356.89	28215 <i>27</i>	16260.88	11397.23	7249.83	8647.39	11814.72	210415.01
N	21	24	24	24	24	24	24	. 24	24	24	24	24	24
MEAN	520.31	589.78	549.39	764.82	1203 28	1556.95	1175.68	677.54	474.88	302 08	360,31	492 28	8767.29
MAX	934 00	1016.00	1502 94	2062 00	3397.00	3871 00	2638.00	1550.07	831 53	619.00	629.38	907.00	14288.00
MIN	72 90	153.00	99.09	137.10	352 92	425 82	300.10	278.54	178.00	59 20	66,50	83.00	3850.12

: Mae Nam Nan

Station Name

: Cham Saeng (N14)

Drainage Area :

33,197 km²

Unit

	CHARGE STREET		No. No.			********			-		****		
YEAR	APR.	MAY	JUN.	JUL.	AUG.	SEPT.	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	
1969	73.40	75.00	282.00	759.00	1,409.00	2,141.00	1,760.00	854.00	255.00	135.00	67.30	40.70	7,851.40
1970	35.70	251.00	688.00	1,949.00	2,665.00	3,173.00	2,698.00	1,156.00	396.00	169.00	110.00	124.00	13,414.70
1971	117.00	139.00	312.00	456.00	1,530.00	2,324.00	1,775.00	765.00	579.00	248.00	177.00	204.00	8,262.00
1972	181.00	210.00	409.00	513.00	862.00	764.00	916.00	289.00	289.00	96.00	129.00	207.00	4,865.00
1973	194.00	196.00	327.00	464.00	912.00	1,445.00	1,180.00	323.00	217.00	126.00	101.00	182.00	5,667.00
1974	162.00	162.00	357.00	567.00	1,276.00	975.00	846.00	1,045.00	506.00	292.00	214.00	476.00	6,878.00
1975	432.00	473.00	705.00	1,072.00	1,849.00	3,521.00	3,484.00	1,937.00	901.00	390.00	472.00	638.00	15,874.00
1976	715.00	1,000.00	943.00	745.00	1,490.00	2,785.00	2,600.00	1,582.00	844.00	570.00	489.00	624.00	14,387.09
1977	730.00	952.00	800.00	837.00	1,203.00	2,689.00	1,160.00	1,035.00	616.00	332.00	272.00	410.00	11,036.00
1978	477.00	421.00	420.00	1,995.00	2,455.00	2,064.00	3,052.00	1,043.00	451.00	335.00	318.00	462.00	13,493.00
1979	775.00	793.00	1,124.00	830.00	1,124.00	1,167.00	954.00	698.00	524.00	269.00	181.00	236.00	8,675.00
1980	255.00	448.00	882.00	1,385.00	2,172.00	3,377.00	3,282.00	1,344.00	730.00	405.00	484.00	626.00	15,390.00
1981	535.00	602.00	1,089.00	1,696.00	2,845.00	1,862.00	882.00	919.00	620.00	407.00	316.00	758.00	12,495.00
1982	740.00	414.00	384.00	513.00	713.00	1,219.00	1,149.00	973.00	489.00	294.00	310.00	372.00	7,570.00
1983	395.00	492.00	450.00	540.00	737.00	1,739.00	1,567.00	1,063.00	567.00	326.00	319.00	679.00	8,874.00
1984	995.00	678.00	770.00	482.00	736.00	1,859.00	1,677.00	1,445.00	488.00	246.00	528.00	794.00	10,698.00
1985	659.00	579.00	592.00	636.00	937.00	1,305.00	1,832.00	1,734.00	1,163.00	263.00	503.00	861.00	11,064.00
1986	640.00	635.00	857.00	715.00	1,045.00	1,181.00	613.00	790.00	616.00	386.00	391.00	605.00	8,474.00
1987	494.00	294.00	377.00	310.00	749.00	915.00	1,230.00	549.00	262.00	146.00	227.00	300.00	5,853.00
1988	219.00	427.00	345.00	380.00	474.00	367.00	370.00	249.00	263.00	165.00	138.00	165.00	3,562.00
1989	148.00	458.00	777.00	388.00	298.00	910.00	572.00	327.00	198.00	165.00	244.00	399.00	4,884.00
1990	264.00	656.00	1,011.00	885.00	627.00	1,055.00	724.00	585.00	409.00	278.00	240.00	329.00	7,063.00
1991	363.00	254.00	353.00	214.00	696.00	986.00	767.00	297.00	187.00	138.00	119.00	200.00	4,574.00
Average	417.35	461.26	619.74	797.00	1,252.35	1,729.87	1,525.65	913.13	503.04	268.74	276.06	421.38	9,185.58

: Mae Nam Yom

Station Name

: Ban Don Rablang , A.Si Satchanalai , Sukho Thai (Y14)

Drainage Area

: 12131 sq.km.

Unit

YEAR	APR.	MAY.	JUN.	JUL	AUG.	SEP.	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	ANNUA
1970	16.89	204.00	252.00	433.00	1462.00	1681.00	466.00	125.00	77.80	32.60	17.90	13.60	4781.6
1971	17.20	134 00	138.00	645.00	1021.00	938.00	740.00	102.00	56.60	32,60	17.30	16.60	3856.3
1972	27.30	25.30	50.40	51.60	676.00	323.00	452.00	110.00	57.30	21.00	9.76	30.80	1834.4
1973	i. 15.30	55.10	149.00	220 00	1716.00	1901 00	741.00	150.00	70.50	36.70	21.10	16 70	5092.4
1974	31.40	131.00	85.90	50.70	1097.00	885.00	305.00	422.00	63 90	62.80	23.10	16.00	3173.8
1975	10.30	23.50	191.00	418.00	161200	1061.00	569.00	227.00	97.40	49.50	28.10	18.90	4295.7
1976	11.20	69.60	117.00	42.00	588 00	879.00	624.00	197.00	67.20	66.10	17.60	15.60	2694.3
1977	29.40	69.70	34 20	24.10	244.00	1155.00	407.00	179.00	6 7.0 0	28.50	12.80	8.37	2249.0
1978	5.72	61.70	41.50	609.00	1129.00	1243.00	648.00	102.00	53.10	15.20	12.70	7.10	3828.0
1979	4.98	75.50	239.00	65.90	286.00	287.00	115.00	23.00	14.90	8.26	5.12	377	1128.4
1980	9.10	20.80	192.00	275.00	333.00	1446.00	296.00	111.00	67.30	37.90	23.30	16.50	2827.
1991	16 20	262.00	168.00	1122.00	1044 00	440.00	462 00	207.00	75.80	39.20	19.60	12.50	3868
1982	70.30	36.60	45.30	52.60	105.00	485.00	366.00	76.20	36.10	18.00	9.80	4.54	1306.
1983	2.74	37.60	53.60	89.50	328.00	898.00	516.00	184.00	63.90	32.50	16.50	8.41	2230.
1984	9.76	73.10	121.00	131.00	205.00	686.00	568.00	104.00	48.00	18.80	7.65	3.66	1975.
1985	6.57	65.00	76.30	122.00	282.00	575.00	389.00	340.00	97.20	33,80	15.70	8.09	2010.
1986	12.40	106.00	73 00	64.20	316.00	678.00	167.00	70.10	37.90	18.10	11.00	12.40	1566.
1987	9.23	20.70	33.60	19,10	613.00	779.00	381.00	144 00	47.00	23.00	14.40	8.74	2092.
1988	4 37	167.59	311.56	536.22	661.03	305.01	323.78	85.64	40.20	13.30	5.40	2 20	2456.
1989	6.29	126.97	206.15	230.42	303.81	575.42	431.92	88.00	42.08	19.82	11.11	13.26	2065.
1990	17.00	63.00	130.00	129.00	243 00	584.00	239.00	107.00	37.70	19.00	8.24	2.37	1579
1991	10.32	40.97	99.94	24 25	308.93	582.33	312.95	99 68	36.44	22.77	9.79	16.49	1564
1992	4.01	2.75	11.87	7.58	263.38	316 28	534.06	73.55	69.25	35.21	11.44	11.22	1340
1993	10.42	25.04	34.85	83.95	36.60	401.21	164.60	51.08	19.83	6.98	4.06	2.31	840
TOTAL	358.31	1897.51	2855.16	5446.12	14873.75	19102.25	10108.31	3378 25	1334.40	691.63	333.17	270.04	60648
N	24	24	24	24	24	24	24	24	24	24	24	24	•-
MEAN	14.93	79.06	118.96	226.92	619.74	795.93	421.18	140.76	55.60	28.82	13.88	11.25	2527
MAX	70.30	262 00	311.56	1122.00	1716.00	1901.00	741.00	422.00	97.40	66.10	28.10	30.80	5092
MN	274	2.75	11.87	7.58	36 60	287.00	115.00	23.00	14.90	6.98	4.06	2.20	840

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River Name

: Mae Nam Wang

Station Name

: Ban Wang Man, A.Sam Ngeo, Tak (W4A)

Drainage Area : 10507 sq.km.

Unit

YEAR	APR.	MAY.	JUN.	JUL.	AUG.	SEP.	ост.	NOV.	DEC.	Jan.	FEB.	MAR.	ANNUAL
1970	7.19	79.39	206.28	107.67	503.11	465.88	242.50	87.24	83.92	26.26	14.09	8.23	1831.81
1971	0.00	0.00	0.06	39.75	450.00	574.00	468.00	112.00	42.00	20.30	6.09	2.57	1714.76
1972	17.00	9.50	12.10	3.59	91.90	185.00	283.00	155.00	66.60	13.70	6.45	10.10	853.94
1973	17.50	31.30	93.20	102.00	415.00	799.00	430.00	116.00	54.20	25.20	10.30	10.40	2104.10
1974	13.40	106.00	86.40	41.50	267.00	488.00	256.00	449.00	60.30	70.80	18.30	15.80	1872.50
1975	14.30	17.20	48.60	95.40	326.00	670.00	543.00	198.00	64.10	31.10	17.10	14.00	2038 80
1976	15.40	27.70	23.50	20.30	79.60	250.00	453.00	245.00	47.20	46.70	15.60	11.80	1235.80
1977	15.10	15.30	12.20	14.30	44.70	591.00	228.00	161.00	51.00	18.00	12.90	10.00	1173.50
1978	12.30	55.70	25.30	279.00	350.00	446.00	352.00	53.80	23.10	16.70	13.60	9.68	1637.18
1979	7.66	42.90	175.00	30,80	60.30	108.00	98.20	19.90	10.00	6.12	5.84	12.80	577.52
1980	3.81	16.10	60.80	54.60	77.30	453.00	229.00	64 20	25.90	10.10	6.64	5.70	1007.15
1981	4.67	70.80	37.10	255.00	400.00	200.00	153.00	111.00	52.10	19.90	13.00	10.40	1326.97
1982	14.40	23.90	21.90	10.10	13.20	110.00	172.00	33.40	11.10	9.09	6.94	5.10	431.13
1983	2.24	1.98	15.20	2.18	38.10	265.00	221.00	143.00	36.90	12.20	7.78	5.04	750.62
1934	4.69	1470	22.10	11.00	40.30	136.00	221.00	53.80	19.90	9.24	5.69	4.09	542.51
1985	5.76	12.70	41.40	26.40	22.00	9 5.90	230.00	269.00	83.30	27.30	15.90	13.20	842.66
1986	10.20	33.50	15.70	18.30	100.00	263.00	101.00	35.00	12.80	7.25	5.82	5.01	607,58
1937	4.21	6.46	24.60	12.40	139.00	373.00	216.00	144.00	40.00	14 00	7.25	4.02	984.94
1988	4.59	41.92	239.29	221.49	152.27	176.71	368.43	97.27	38.42	14.49	9.31	7.37	1371.55
1989	5.29	14.18	139.66	33.10	124.25	142.14	368.85	76.55	25.74	8.41	4.28	5.91	948.35
1990	3.90	20.52	16.90	8.11	18.81	224.33	153.38	101.67	19.53	7.35	2.19	0.00	576.69
1991	5.32	2.61	3.64	1.30	32.28	187.13	137.22	48.09	15.80	10.77	8.43	8.43	461.08
1992	4 23	1.27	0.00	0,00	23.35	132.16	247.95	53.82	45.07	28.73	8.70	8.06	553.32
1993	6.36	4.83	4.66	8.18	8.85	121.50	168.95	33.01	12.83	6.33	21.00	11.61	408.11
TOTAL	199.53	650 46	1325.57	1396.46	3777.33	7456.75	6341.47	2860.74	941.81	460.05	243 20	199.41	25852.78
N	24	24	24	24	24	24	24	24	24	24	24	24	24
MEAN	8.31	27.10	55.23	58.19	157.39	310.70	264.23	119.20	39.24	19.17	10.13	8.31	1077.20
MAX	17.50	106.00	239.29	279.00	503.11	799.00	543.00	449.00	83.92	70.80	21.00	15.80	2104.10
МІМ	0.00	0.00	0.00	0.00	8.85	95.90	98.20	19.90	10.00	6.12	2.19	0.00	408.11

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: Mae Nam Ping

Station Name

: Ban Nakhon Chum, A Musag, Kamphaeng Phet (P7A)

Drainage Area

; 42700 sq.km.

Unit

Unit		MCM.											
YEAR	AFR.	MAY.	JUN.	JUL	AUO.	SEP.	ост.	NOV.	DEC.	JAN.	FEB.	SAM.	ANNUAL
1970	749.00	1001.00	1073.00	979.00	1461.00	1330.00	1387.00	984.00	957.00	721 00	684 00	783.00	12109.00
1971	763.00	809.00	757.00	893.00	1324 00	1470.00	1515.00	1038.00	824.00	698.00	624.00	740.00	11455.00
1972	611.00	734.00	685 00	714.00	724 00	821.00	1062 00	692 00	562.00	519.00	513.00	668.00	8305.00
1973	824 00	765.00	891.00	882.00	1272 00	2093.00	1540.00	774.00	709.00	6 70. 00	828.00	983.00	12221.00
1974	702.00	841.00	729.00	730.00	877.00	1213.00	1330.00	1379.00	420,00	430.00	518.00	759.00	9928.00
1975	832 00	706.00	745.00	813.00	1020.00	1558.00	1897.00	1340.00	646.00	470.00	512.00	785.00	11324 00
1976	852.00	874 00	1023.00	1136.00	807.00	1083.00	1206.00	933.00	519.00	490.00	580.00	825.00	10298.00
1977	875.00	898.00	: 656.00	728.00	724 00	1110.00	780.00	893.00	490.00	271.00	496.00	633.00	8554.00
1978	677.00	621.00	637.00	976.00	825.00	1027.00	1150.00	378.00	455.00	383.00	476.00	819.00	8424.00
1979	866.00	816.00	824 00	733.00	747.00	853.00	746.00	914 00	597.00	312 00	267.00	327.00	8002.00
1990	340 00	580.00	575.00	433 00	394 00	741.00	800.00	182.00	196 00	207.00	396.00	572.00	5416.00
1981	776.00	749 00	678.00	416.00	616 00	477,00	514 00	857.00	275.00	263.00	514.00	795.00	6930.00
	629.00	616.00	620,00	966.00	916.00	504.00	471.00	330.00	250.00	365.00	694.00	1011.00	7272 00
1982	758.00	720.00	532 00	498 00	342.00	638.00	1271.00	871.00	133 00	150.00	567.00	782.00	7252.00
1983	1	100	284.00	280.00	476.00	433.00	536.00	322.00	199.00	287.00	439,00	664.00	5094.00
1981	674 00	500.00 473.00	334 00	275.00	341.00	432 00	708.00	517.00	263.00	254 00	592.00	775.00	5503.00
1985	539.00	. :	612.00	626.00	545.00	719.00	801.00	716 00	286.00	264 00	565.00	910 00	7196.00
1986	488.00	664.00	532 00	715 00	836.00	806 00	483 00	505 00	177.00	252.00	348.00	1015.00	7077.00
1987	81600	591.00		447.00	317.00	672.00	1489.00	174 00	105.00	307.00	705.00	1177.00	7109.00
1988	929.00	423.00	464 00	246 22	804 65	556.28	897.83	592.57	324.33	350.54	546.89	978.32	7390.73
1989	1054.52	636.89	391.69	346.95	324 83	609.36	729.61	611 14	378 60	337.10	368.48	504.52	6354.39
1930	874.35	71365	555.74	147.26	233.77	320.17	503.86	355.47	347.35	379.43	527.06	623.56	4270.40
1991	465 30	184.13	123.10		284.71	221.72	792.36	307.71	379 37	258 04	447.12	554.81	4551.70
1992	626.90	492 62	96 84	89.58	413.30	497.29	486.59	496.43	125 €6	63.04	81 5 1	122 22	4184.4
1993	604 58	542 26	472.99	278.59	413.50	137.23	100.00						
TOTAL	17325 65	15940.55	14291.36	14243 60	16685 30	20084 82	23096.25	16162 31	9618.31	8701.15	12249.06	17806.43	186210.7
N	24	24	24	24	24	24	24	24	24	24	24	24	2
MEAN	721 90	664 19	595.47	593.73	695.22	836.87	962 34	673.43	400.76	362.55	510.38	741.93	7758.7
MAX	1054 52	1001.00	1073 00	1136.00	1461.00	2093.00	1837.00	1379.00	957.00	721.00	828.00	1177.00	12221.0
MIN	340 00	184 13	96.84	89.58	284.71	221.72	471.00	174 00	105.00	63 04	81.51	122 22	4184.4

: Mae Nam Chao Phraya

Station Name

: Almung, Nikhon Sawan (C2)

Dreinage Area

· 110589 en km

Upit

RANY	APA.	MAY.	JUN.	Mr.	AUG.	SEP.	oct.	nov.	DEC.	Jan.	FER.	HAR.	ANNUAI
1970	942 95	1775 00	2405.79	4061.54	7815.16	8558 03	4673 86	2251.93	1545 59	1017.87	876 87	992 63	3691722
1971	962 92	1356 94	1482 52	2792 40	4944.06	5594 60	4394 78	1874 90	1346.60	1009.45	867.08	1060.21	27676.47
1972	975.43	1170.59	1400 61	1602 01	3057.12	2223.65	2820 93	1429.51	917.66	678 99	723.77	1045.14	18046.40
1973	1145 97	1132.38	1570.20	1909.06	5358.62	7042.11	4027.95	1549 15	1178.77	978 84	1031.72	1310.67	28235 34
1974	1369.51	1754 81	1466 85	1623 69	4384.98	4242 70	2927.32	3194 89	1117.55	991 07	973 24	1 131 26	25477.86
1975	1543.78	1472.36	2012 09	2803.31	6715.42	7211.18	6923.76	3000.86	1721 63	1102.13	1235 89	1703.36	35445.78
1976	1810.04	2146.63	2332 24	2183 28	3379.04	5103 22	4933.45	2696.48	1534 26	1327.64	1241 83	1694 88	30382 98
1977	1604 66	2092.77	1631.14	1782 35	2426.04	5451 97	2706.56	2083.19	1174.02	702 74	880.27	1170.88	23936.59
1978	1280 02	1210 84	1203.49	3601.68	4944 61	5395.98	4979 92	1514.66	1329.70	1014.77	1140 04	1859.87	29475 58
1979	1914 02	1967.16	2392 14	1755 64	2582.44	2685 25	1906.68	1799.40	1202 33	647.79	494 13	644 91	19992 88
1980	209.56	1137.54	1681 98	2009.56	2786 98	6704 27	3409.71	1030.40	943 88	731 61	1002 32	1345.27	23492 79
1981	1695.12	2382 69	2214 34	3978 57	5544 97	2870.51	2364.81	2243 31	1192 90	927.76	1256.76	1787.49	28458 23
1982	1798 05	1517.41	1279.43	1664.48	2112 43	3032 23	2602.38	1351.90	956.38	1019 99	1433.71	1801 37	20569.79
1983	1910 34	1726.72	1193.45	1354 36	1615.40	3580.66	3569.70	2179.33	754 32	548 82	1154 01	1702 36	21489.47
1984	1536 82	1277.63	1439.40	1202 28	1810 55	3381 09	3104.67	1511.67	865.11	886.97	1161.15	1724.12	19901.44
1985	1670.18	1420.05	1008.59	1385 82	1863 83	2764.48	2967.24	2834.01	1357.11	687.46	1187.53	1700.61	20896.90
1986	1282 80	1974 07	2073 14	1819.40	2052 53	3017.25	1621.90	1638 71	946.16	628.35	1327.29	1674 25	20055 85
1987	1514 33	1305.71	1113.53	1189.94	2765 24	3256.43	2258 08	1239.62	672 28	650.60	864 53	1539.10	18270.28
1988	1217.36	1524.01	1449.30	1963 06	2109 93	1623.75	2910.88	684 60	546 15	580.02	992.42	1485.75	17087 24
1989	1546 60	1657.90	1741.76	1136 44	1802 66	2360.84	2174 62	1171 14	783 04	666.42	925.79	1720.18	17687 38
1990	1585 76	1714.45	2463 64	1557.82	1454 54	3091 54	1993 64	1325 10	936 03	606.93	855.52	1204 93	18798 90
1991	1079.89	705.97	655.41	532 37	1866.72	2564 34	1766 36	925.98	813.73	681 B4	850 14	1012 53	13458 28
1992	977.58	719 08	235 27	260.72	1541.68	1409 65	2435 09	770.37	928 82	491.47	757.43	1014 17	11541 25
1993	1124 51	1166.00	1158 36	909,02	1274 39	2475.35	1150.46	1082 09	549.01	23277	322 66	440.46	11885.09
TOTAL	33398.19	36308 69	37664 66	45078 80	75420 25	95662 01	7352474	41383 19	25312.74	18711.18	23565.12	33057.38	539176 97
N	24	24	24	24	24	24	24	24	24	24	24	24	24
MEAN	1391 59	151286	1569.36	1878 28	3142.51	3985 92	3067.70	1724 30	1054 70	779.63	981.46	1377.39	22465.71
MAX	1914 02	2382.69	2463.64	4061 64	7815 15	8558.03	5923.76	3194.89	1721.63	1327.64	1433.71	1859.87	36917.22
MIN	709.56	706 97	235 27	260.72	1274 39	1409 56	1150.46	684 60	546.16	232.77	322 56	440.46	11541 25

Station Name

: Pasak Dam

Drainage Area

: 12925 sq.km.

Unit

YEAR	APR.	мач.	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	Jan.	FRB.	MAR.	ANNUAL
1970	30.21	35.70	76.89	69.57	238.92	248.07	176.67	76.89	28.38	8 24	5.49	8.24	1003.27
1971	10.07	27.46	72.32	86.96	152.87	430.23	808.29	264.65	55.84	22.88	10.98	12.82	1955.27
1972	7.32	25.63	17.39	10.07	129.99	324.96	698.66	92.45	32.04	12 82	7.32	6.41	1265.07
1973	10.07	17.39	14.65	. 21.97	43.94	346.02	464.10	21.97	10.98	6.41	3.66	6.41	967.67
1974	14.65	50.35	19.22	10.98	49.43	203.22	519.94	219.69	47.60	13.31	10.07	12.82	1176.27
1975	10.07	19 22	64.99	193.15	206.88	993.20	1206.48	129.07	85.84	27.46	16.48	15.66	2933.40
1976	15.56	46.68	41.19	64.08	241.66	724.99	996.86	372.56	71.40	34.78	16.48	15.66	2641.81
1977	18.31	50.35	34.78	14 65	50.35	610.56	411.92	31.12	21.05	16.48	9.15	7.32	1276.05
1978	15.56	35.70	44.85	398.19	745.13	898.91	2418.67	96.12	64.08	38.45	21.97	21.97	4829.59
1979	13.73	65.91	75.06	86.96	95.20	196.81	274.62	22 88	15.56	10.98	6.41	6.41	870.53
1980	12.82	16.48	77,81	200.47	270.96	640.77	1222.96	121.75	47.60	25.63	11.90	18.31	2667.44
1981	21.97	45.77	42.11	211.45	637.11	551.06	380.80	157.45	60.42	27.46	12.82	10.98	2159.40
1982	21.97	42 11	62 25	26.55	40.28	1068.26	1100.30	194.06	77.81	36.62	20.14	16.48	2706.80
1983	12.82	18.31	32.95	37.53	178.50	416.50	1265.98	301.16	97.03	58.58	32.95	29 29	2481.62
1984	30.21	36.62	96.12	164.77	145,55	611.48	1073.75	212.37	75.98	38.45	23.80	26.55	2535.63
1985	26.55	56.75	72.32	161.11	337.78	930.38	996.86	423.83	99.78	43.02	26.55	21.97	3246.88
1986	25.63	73.23	81.47	43.94	227.02	313.06	127.24	60.35	36.62	23 80	15.56	15.56	1033.47
1987	8 24	17.39	40.28	35.70	40.28	1267.81	1081.07	155.62	68.65	32.04	21.97	13.73	2782 78
1988	11.90	208.71	219.69	70.48	147.38	222.44	421 08	279.19	54 92	23.80	11.90	10.07	1681.57
1989	10.98	15.56	238.00	82.38	140.97	206.88	319.47	141.89	32 95	12 82	4 58	8 24	1214.72
1990	2.75	1831	226.10	143.72	184.91	279.19	857.72	199.55	43 94	13.73	6.41	6.49	1981.82
5 1 1	9.15	19.22	79.64	49.43	294.76	1184 51	843.99	51.26	32.04	38.45	16.43	10.07	2629.00
1991	7.32	10.07	39.36	26.63	288.35	208.71	425.66	55.84	31 12	13.73	7.32	6.41	1119.62
1992 1993	10.07	17.39	28.38	18.31	64.92	267 29	161 11	13.73	10.07	8.24	7.32	11 90	608.73
						40400.00	10104.20	3685 36	1171.70	593.17	327.71	318.56	47773.23
TOTAL	357.92	970.31	1797.82	2228.06	4943.10 24		18184 20 24	24	24	24	24	24	24
N	24	24	24 74 91	92.84	205.96	24 649.81	757.67	153.56	48.82	24.72	13.65	13.27	1990.56
MEAN MAX	14.91 30.21	40.43 208.71	238.00	398.19	745.13	1267.81	2448 67	423.83	99.78	68.58	32.95	29.29	4829.59
MIN	2.75	10.07		10.07	40 28	196.81	127.24	13.73	10.07	6.41	3.68	5.49	608.73



Station Name

: Mae Nam Pasak at Confluence with Mae Nam Chao Phraya

Dreinage Area

a : 15292 sq.km.

Unit

YEAR	APR.	мач.	JUN.	JUL	AUG.	SEP.	OC7.	NOV.	DEC.	JAN.	FEB.	MAR.	ANNUAL
1970	36.62	43.28	93.23	84.35	289.67	300.77	214 20	93.23	34.40	9.99	6.66	9.95	1216.38
1971	12.21	33.30	87.68	105.43	185.34	521.62	979.98	320.74	67.70	27.75	13.32	15.54	2370.61
1972	8.88	31.08	21.09	12.21	157.60	393.99	725.83	112.09	38.84	15.54	8.88	7.77	1533.79
1973	12 21	21.09	17.76	26.64	53.27	419.52	562.69	26.64	13.32	7.77	4.44	7.77	1173.09
1974	17.76	61.04	23.31	13.32	69.93	246.38	630.39	266.36	67.71	22.20	12.21	15.54	1426.14
1975	12 21	23.31	78.80	234.18	250.82	1204.17	1462.76	156.49	67.70	33.30	19.98	18.87	3562.57
1976	18.87	56.60	49.94	77.69	293.00	878.99	1208.61	451.70	86.57	42 17	19.98	18.87	3202.98
1977	22.20	61.04	42 17	17.76	61.04	740.26	499.43	37.73	25.53	19.98	11.10	8.88	1547.11
1978	18.87	43.28	54.38	482.78	903.41	1089.86	2968.81	116.53	77.69	46.61	26.64	26.64	5855.49
1979	16.65	79.91	91.01	105.43	115.42	238.61	332.95	27.75	18.87	13.32	7.77	7.77	1065.45
1980	15.54	19.98	94.34	243.05	328.51	776.88	1482.74	147.61	57.71	31.08	14.43	22 20	3234.06
1981	26.64	55.49	51.05	266.37	772.44	668.12	461.69	190.89	73.25	33.30	15.54	13.32	2618.10
1982	26.64	51.05	75.47	32.19	48.83	1295.18	1334.02	235.28	94.34	44.39	24.42	19.98	3281.78
1,983	15.54	22 20	39.95	45.50	216.42	504.97	1534.90	365,14	117.64	71.03	39.95	35.51	3008.76
1984	36.62	44 39	116.53	199.77	176.46	741.37	1301.84	257.48	92.12	46.61	28.86	32.19	3074.24
1985	32 19	68.81	87.68	195.33	409.53	1188.63	1208.61	513.85	120.97	52.16	32.19	26.64	3936.58
1986	31.08	88.79	93.78	53.27	275.24	379.56	154.27	61.04	44.39	28.86	18.87	18.87	1253.00
1987	9.99	21 09	49.83	43.28	48.83	1537.12	1310.71	188.67	83 24	38.84	26.64	16.65	3373.90
1988	14.43	253.04	266.36	85.46	178 68	269.69	510 52	338.50	66.59	28.86	14.43	12.21	2038.77
1989	13.32	18.87	283 56	99.89	170.91	250.82	387.33	172.02	39.95	15.54	5.55	9.93	1472.75
1990	3.33	22.20	274.13	174 24	224 19	338.50	1039.91	241 94	53.27	16.65	7.77	6.66	2402.79
1991	11.10	23.31	96.66	69.93	357.37	1436.13	1023.27	62 15	38.84	46.61	19.98	12 21	3187.44
1992	8.88	12.21	47.72	31.08	349.60	253.04	516.07	67.70	37.73	16 65	8.88	7.77	1357.33
1993	12 21	21.09	34.40	22 20	66.59	324.07	195.33	16.65	12 21	9.99	8.88	14.43	738.04
TOTAL	433.95	1176.42	2179.71	2701.34	5993.10	15998.26	22046.86	4468.19	1420.59	719.17	397.32	388.22	57921.14
И	24	24	24	24	24	24	24	24	24	24	24	24	24
MEAN	18.08	49.02	90.82	112.56	249.71	666.59	918.62	186.17	59.19	29.97	16.56	16.09	2413.38
MAX	36.62	253.04	288.56	482.78	903.41	1537.12	2968.81	513.85	120.97	71.03	39.95	35 61	5855.49
MIN	3.33	12 21	17.76	12 21	48.83	238.61	154 27	16.65	12.21	7.77	4.44	6.68	738.04

: Mekong

Station Name

: Chiang Saen

Drainage Area

: 189,000 km²

Unit

YEAR	APR.	MAY	JUN.	JUL.	AUG.	SEPT.	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	Total	Yield (mm)
1961	2,474	3,345	6,902	11,191	21,563	15,387	11,207	6,244	4,276	2,506	1,935	2,048	89,078	470
1962	2,063	3,267	8,749	11,035	23,532	14,608	9,210	5,079	3,204	2,963	2,224	1,953	87,887	465
1963	1,664	2,071	5,294	14,317	20,555	11,904	10,700	8,569	4,075	2,425	1,765	1,751	85,090	450
1964	2,391	3,714	5,545	16,923	19,711	17,216	12,017	6,276	4,163	2,870	2,119	2,165	95,110	500
1965	1,881	2,435	7,528	13,990	17,758	14,976	13,751	11,497	5,572	3,026	2,267	1,955	96,636	510
1966	2,173	3,083	8,153	16,471	29,437	29,998	16,179	7,773	4,826	3,821	2,541	2,227	126,682	670
1967	2,392	2,924	4,753	10,805	15,781	12,712	10,787	6,877	4,324	3,543	2,474	2,557	79,929	430
1968	2,427	4,247	6,316	11,712	17,542	15,783	14,395	8,567	4,320	3,515	2,624	2,548	93,996	500
1969	1,814	2,000	5,370	11,382	24,139	12,576	8,243	5,275	3,497	2,968	1,989	1,650	80,903	430
1970	2,426	4,774	7,537	18,597	24,738	13,360	8,922	6,591	6,924	2,630	1,878	1,925	100,302	530
1971	2,462	3,617	8,209	20,315	29,448	17,676	10,370	6,329	4,438	3,719	2,593	2,391	111,467	590
1972	2,477	2,962	4,141	7,778	12,915	9,170	7,175	5,978	5,792	3,484	2,545	2,328	66,745	350
1973	2,603	3,532	6,699	11,989	17,854	16,311	8,202	7,831	4,643	4,093	2,374	2,664	88,845	470
1974	2,529	3,297	5,958	11,166	18,809	17,042	9,206	6,294	4,010	3,034	2,211	2,163	85,719	450
1975	2,321	3,252	5,998	10,087	11,252	10,977	7,375	5,372	3,429	3,394	2,285	2,108	67,850	360
1976	2,416	3,604	6,855	10,129	17,113	11,709	9,308	5,829	3,969	2,662	2,172	2,156	77,922	410
1977	2,561	3,207	5,215	10,242	13,498	11,411	9,211	6,141	3,941	2,831	2,154	2,206	72,618	380
1978	2,193	4,634	7,680	13,800	18,510	13,387	9,811	4,835	3,346	3,282	2,244	2,111	85,833	450
1979	2,149	2,917	4,027	7,442	13,685	16,348	12,061	5,171	3,891	2,531	1,867	1,832	73,921	390
1980	2,598	3,340	6,389	13,079	19,176	14,764	12,939	5,906	3,954	2,818	2,150	2,159	89,272	470
1981	2,260	5,650	9,553	14,531	15,876	12,892	8,256	7,489	4,706	2,963	2,195	2,256	88,627	470
1982	2,458	2,661	6,454	10,752	16,762	10,299	10,204	5,111	3,506	3,303	2,401	2,065	75,976	400
1983	2,451	3,249	5,321	8,940	14,464	15,108	8,884	9,604	5,195	2,579	1,924	2,313	80,032	420
1984	2,373	2,893	5,888	15,949	12,166	11,740	8,784	5,174	3,605	4,037	2,687	2,211	77,507	410
1985	2,382	3,570	9,113	14,005	16,273	19,970	10,756	8,496	5,038	2,822	2,090	1,990	96,505	510
1986	2,466	3,849	4,990	11,815	12,262	10,406	11,393	6,160	4,324	3,516	2,458	2,316	75,955	400
1987	2,622	2,917	4,848	7,855	14,122	15,178	10,472	6,739	4,287	3,591	2,749	2,604	77,984	410
1988	2,619	4,558	5,772	8,720	14,475	12,359	8,667	4,926	3,782	3,154	2,311	2,509	73,852	390
1989	2,102	3,202	5,381	9,690	12,763	10,696	13,570	6,481	4,338	2,814	2,106	2,150	75,293	400
1990	2,594	5,270	10,624	17,217	13,231	11,155	11,132	5,870	3,988	3,282	2,573	2,696	89,632	470
1991	2,724	3,748	7,796	14,351	21,618	14,991	11,891	8,195	4,934	3,038	2,245	2,266	97,797	520
Average	2,345	3,468	6,509	12,397	17,647	14,234	10,440	6,618	4,312	3,139	2,264	2,200	85,572	452

Station Name : A.Chlang Khong, Chlang Rai (KHN3)

Drainage Ares : 204000 sq.km.

Unit : MCM.

YEAR	APR.	MAY.	JUN.	JUL.	AUG.	SEP.	007.	NOV.	DEC.	JAN.	FEB.	MAR.	ANNUAI
1970	2430	5010	7820	18900	28100	16600	11000	7350	7560	4140	2860	2690	114460
1971	2600	3700	8420	21200	35000	23400	12600	8200	5300	3968	2821	2487	129696
1972	2558	3055	4273	8170	14615	10860	8718	7094	6648	3674	2700	2964	75328
1973	2801	3755	7074	13397	19893	18776	9743	8941	5491	3613	2558	2344	98387
1974	2740	3501	6567	12585	21922	19893	10657	7196	4395	3877	2517	2233	98082
1975	2436	3481	7023	11976	14818	13904	9632	6688	3897	2821	2344	2202	81224
1976	2314	3532	7490	11976	19284	14513	11570	7389	4801	3299	2324	2294	90785
1977	2690	3370	5541	12078	16036	14513	11875	7866	4567	3755	2365	2304	86959
1978	2192	4780	8434	16340	20806	16746	12078	5937	4141	2893	1949	1756	98052
1979	2162	3055	4516	8444	15833	18675	14716	6293	4425	2984	2152	1908	85162
1980	2405	3167	6780	14919	21618	17761	15630	7186	4821	3420	2334	2284	102325
1981	2202	6323	11367	17152	18776	15731	10119	9033	5623	3654	2507	2101	104588
1982	2497	2629	7145	12484	19182	12991	12687	633 3	4445	3146	2192	2517	88248
1983	2537	3390	5826	10251	17051	17863	11367	11875	6201	4303	2811	2304	95779
1984	2385	2984	6729	17964	15224	14412	10251	6140	3918	3075	2385	2497	87964
1985	2619	3755	10149	16137	19284	22024	13194	10555	6272	4080	2629	2273	112971
1986	2456	4405	5602	12788	15224	13093	13904	7348	4790	3765	2761	2416	88552
1987	2426	2700	4821	8008	16137	17863	12484	7196	4527	3238	2334	2426	84158
1988	2547	4912	6282	9764	16848	14615	10251	5633	4110	2811	2030	2091	81894
1989	1949	3075	5389	10555	14818	12788	15833	7561	4638	3258	2517	2578	84959
1990	2476	5430	11875	20096	15833	12788	13093	7044	4354	3238	2233	2202	100660
1991	2679	3826	8353	16239	25576	17558	13499	9500	5968	3481	2470	2350	111499
1992	2470 .	3776	6979	13464	19555	16398	12151	7738	5039	3014	2365	2314	95263
1993	2314	3370	4922	12484	19690	18979	12179	7916	4943		2442	2328	95022
OTAL	58886	90981	169379	327371	461120	392744	289229	184012	120873	82966	5 8599	55860	2292019
N	24	24	24	24	24	24	24	24	24	24	24	24	24
MEAN	2454	3791	7057	13640	19213	16364	12051	7667	5036	3457	2442	2328	95501
MAX	2801	6323	11875	21200	35000	23400	15833	11875	7560	4303	2860	2964	129696
MIN	1949	2629	4273	8008	14615	10860	8718	5633	3897	2811	1949	1756	75328

2.4 Land Use and Capability

The back-up data for this paragraph contains the following tables;

- Land use for forest and farm land (1/3 to 3/3)
- Farm land use (1/3 to 3/3)
- Cropping capability classified by soil units in Kok river basin (1/2 and 2/2)
- Cropping capability classified by soil units in Ing river basin (1/2 and 2/2)
- Cropping capability classified by soil units in Nan river basin

Table 2.4.1 Land use for Forest and Farm Land

tion Irrigation		(%) (%)	(49)/(41)		221					90		222 21		19					12		362 42		211 28		290			48	- 1	7.50			1.032	
Irrigation	Area (103Rai)	\ \ \	7	1	233	100	4	308	213	106	-	-		233	228	363	391	265	14	449	906	-	-		363	32	-	-		2,4	3 2	3 1 2	1.214	
(ig.	32	20			3.078	1,770	2,349	408	314	149	8,068	1,291		162	629	316	1.920	830	261	179	272	4,579	733		1,264	98	1,350	216		660	3 88	228	1.836	4 227
Other Area (103Rai)	1992	V			3.240	ı	ı	089	2,090	1,490				3 240	1.420	1.580	1,920	830	2,610	1,190	089			1 8	1,580	1,720			4 °	701	750	870	2,160	
er Are	81	В			2.698	ı	1		Ì		ļ¢.	1,114		142	l		1,840	230	228	155	140	3,391	543		808	79	887	142		797	İ	720		~
S G	1981	A			2,840	1			2	L				2.840	l	l			2,280						1,010	1,580				1 030	l	1		
Rai)	1992	B	Ê		836	-	l	l			6,728	1,076		44	4		630	1,870	261	431	860	4.752	760		968	87	944	151		2009	ı	l	~	1
ka (103)	19	A			880		1	١,		4,070				880		1,120	630	1,870	2,610	2,870	2,150				1,120					2 870			-	
Farm Area (103Rai)	1981	8	_		570	 •	١''		512		6,282	1,005		30	ြိ	172	200	2,020	244	387	992	4.737	758		688		716	114		1 808			٦,	
F	1	A	_		009		2,440	~	9 3,410	4,160		8		31 600		098 9	500	2,020		8 2,580	0 2,480	2	8		4 860	9 550	~	7.		2 580			-	
(103Rai)	1992	B			0 2,898		0 1,386		0 249	0 44	6,487	1,038		0 153	0 711	0 1,026	0 1.540	0 1,420	0 154	0 198	0	5,202	832		4,104	379	4,483	717	.:	924	က			13,101
rea (10		¥	_		3,050	016,1 0	1,540	i	0, 1,660	6 440	હ	9		87 3,050	1	5,130				1,32		4	2		5,130	6 7,580	7	·		1.320	ı	1	ΙI	8
Forest Az	1981	B		:-	1	0 2,230			36		8,036	1,28		-	l				- 1	- 1	0	6,404	1,02		4	907 0	5,17	828		Į.	3,248		8,976	
Fo		A			2 3,730	j			2,	0 660	2	5		3,730		6 5,960			١	1,77		2	ú		4 5,960	3 8,120	7-	4		6 1.770	٠.		5 10,560	
Total Area	(103Rai)	В	_		0 6,812	0 4,900	0 6,084	0 1,698	1	009 0	21,282	3,405		359	0 1,782	0 1,566		4		- 1	- 1	14,532	2,325		0 6,264		6,777	1,084	.:	3.766	1		10,685	21,371
		4			95 7,170	0 4,900	90 6,760	60 2,830		10 6,000				5 7,170	45 3,960	20 7,830			ı		40 2,830				80 7,830	5 10,250	_	_		70 5,380	40 10,250		85 12,570	
Area		<u>@</u>			6	100	6	9	1	1		_			*	2	100	100		-			_	<u>:</u>	8			_		1	4	100		_
	Basin & Province		1. Chao Phraya Basin	(1) Nan Basin (3,430,000ha)	Nan	Uttradit	Phitsanulok	Phichit	Phechabun	Nakhon Sawan	SUB TOTAL (103Rai)	-Do- (103ha)	(2) Yom Basin (2,360,000ha)	Nan	Phayao	Lampang	Phrae	Sukhothai	Phitsanulok	Khamphaeng Phet	Phichit	SUB TOTAL (103Rai)	- 1	(3) Wang Basin (1,080,000ha)	Lampang	Tak	SUB TOTAL (103Rai)	- 1	(4) Ping Basin (3.390.000ha)	Khamphaeng Phet	Tak	Lamphun		SUB TOTAL (103Rai)

	Area		Area	Forest	st Area	1 (103Rai)	ai)	Farn	Farm Area (103Rai)	(103Rz	न	Othe	r Area	Other Area (103Rai)	<u>iš</u>	Irrigation		Irrigation
Basin & Province	Rate	(103Rai)	Rai)	1981	<u> </u>	1992	2	1981		1992	2	1981		1992	2	(103Rai)		Intensity
	(0)	Ą	æ	¥	B	4	82	V	ß	V	22	A	m	¥	m	A	ω	(%)
										<u>></u>	(+1)	-	-	-	-	<u>~</u>	(2)	(-2)/(-1)
(5) Pasak Basin	4.3			!														
Phechabun	8	7,920	6,336	2,400	1,920	1,660	1,328	3,410	2,728	4,170	3,336	2,110	1,688	2.090	1.672	213	170	32
Lop Buri	93	3,870		190	114	130	78	2,870	1,722	2,510	1,506	810	486	1,230	738	643	386	26
Saraburi	100	2,240	li		42	40	28	1,540	1,078	1,190	833	640	448	1,010	707	365	256	31
SUB TOTAL (103Rai)			10,226		2,076		1,434		5,528		5,675		2,622	-	3,117		812	
-Do-(103ha)			1,636		332	-	229		884		806		420		499		130	14
(6) Sakae Krang Basin (520,000ha)										ļ								
Khamphaeng Phet	15	5,380	807	1,770	266	1,320	198	2,580	387	2,870	431	1,030	155	1,190	179	649	67	16
Nakhon Sawan	20	6,000	1,200	099	132	440	88	4,160	832	4,070	814	1,180	236	1,490	298	901	180	22
Uthai Thani	30	4,210		7	546	1,660	498	1,250	375	1,340	402	1,140	3.42	1,210	363	578	173	43
SUB TOTAL (103Rai)			3,270		944		784		1,594	-	1,647	-	733		840		421	1
- Do - (103ha)	_		523		151		125		255		263		117		134		67	26
(7) Chao Phraya Delta/																		
Tha Tin(3,380,000ha)		!	٠				1											
Nakhon Sawan	2	1	- 1		462	-	308	4,160	2,912	4,070 070	2,849	1,180	826	1,490	1,043	8	631	22
Lop Buri	\$	1	ı	ı	292	١	52	2,870	1,148	2,510	1,004	810	324	1,230	492	643	257	26
Uthai Thani	32		- [1,820	637	1,660	581	1,250	438	1,340	469	1,140	399	1,210	424	578	202	43
Chai Nat	100	~	H	21	10		Ö	1,130	1,130	1,130	1,130	400	400	410	410	862	862	92
Ang Thong	100		610	ō	0		ō	240	540	200	200	70	70	110	110	507	507	101
Saraburi	20	~		8	12	\$	8	1,540	308	1,190	238	640	128	1,010	202	365	73	31
Sing Buri	3	ı	- 1		ল		0	440	440	460	460	2	70	20	20	424	424	92
Ayuttaya	100	7	7		0		ō	1,400	1,400	1,180	1,180	200	200	420	420	1,235	1,235	105
Pathum Thani	100	-			Ö		Ö	790	790	069	069	160	160	260	260	693	693	100
Nonthaburi	2				0		0	210	210	170	170	180	180	220	220	230	230	135
Bangkok Metropolis	100	١		গ	ী	8	0	\$	440	360	260	240	540	720	720	468	468	180
Samut Prakan	1001		630	ō	0	ō	0	280	280	210	210	350	350	420	420	378	378	180
Samut Sakhon	90	550			Ö	0	0	270	243	230	207	280	252	320	288	236	212	103
Chachoeng Sao	10		334	910	91	750	7.5	1,610	161	1,870	187	820	82	720	72	926	93	50
Nakhon Pathom	100	- 1		0	0		0	1,000	1,000	870	870	360	360	490	490	871	871	100
Suphan Buri	100	ı	- 1		430	- 1	370	2,510	2,510	2,320	2,320	410	410	099	099	1,688	1,688	73
Kanchanaburi	10	12,180	1,218	7,900	790	6,740	674	1,730	173	2,050	205	2,550	255	3,390	339	486	67	24
SUB TOTAL (103Rai)	1		21,637		2,508		2.068	1	14,123		12,949	1	5,006		6,620	~~	8,873	
-Do- (103ha)			3,462		401		331		2,260		2,072		801		1,059		1,420	69
TOTAL (103ha)			15,854		6,452		5,368		5,834	1	5.877		3,569		4.608		2,373	

g	<u>₹</u> .	· 	<u> </u>	T	Τ	83	<u> </u>	[2		36	T	[%	ī	36		Τ	T	Γ	1	7
Irrigation	Intensity	(Q) (A)	(-2)/(-1)														=			
ation	Rai)	മ	(4.2)			182	280			76		221	221	35	}	129		4 590		
Irrigation Area	(103Rai)	A				1.214	400	226				233								
ai)	22	8				324	1.792	781	2.897	464		3.078	3.078	492		956		16.688		
1 (103R	1992	A				2,160	٥	1,420				3.240						_		
Other Area (103Rai)	12	В				111	1,484	556	2,151	344		2.698	2.698	432		276		-		
Othe	1981	Ą			T	740	ō	1,010		-		2.840	 -						<u> </u>	<u> </u>
(is	S.	В	(£)			197	1,547	528	2,272	363		836	836	134		497	-	21.128		
Farm Area (103Rai)	1992	А	X			1,310	2,210	096				880								-
n Area	11	В		 		191	1,435	479	2,104	337		570	570	91		428	-			
Fari	1981	Ą			ľ	1,270	2,050	870	_			9								
ai)	2	В		-	-	1,365	1,771	869	4,005	179		2,898	2,898	464		1,105		13,495	-	
a (103Rai)	1992	Ą		-		9,100	2,530	1,580		_	-	3,050								
Forest Area	1	В				1,584	2,191	1,144	4,919	787		3,544	3,544	267	_	1,354				_
Fores	1981	Ą				1,886 10,560	3,130	2,080				3,730		_				-	_	
Area	-d1)	B				1,886	5,110	2,178	9,174	1,468		6,812	6,812	1,090	-	2,558		51,311		
Area Total Area		4				12,570	7,300	3,960				7,170							_	
Area		<u>)</u>				15	30	22			1	98				1				
1	basin & Frovince			2. Project Area	(1) Kok & Ing Basin	Chiang Mai	Chiang Rai	Phayao	SUB TOTAL (103Rai)	- Do - (103ha)	(2) Upper Nan	Nan	SUB TOTAL (103Rai)	-Do-(103ha)		TOTAL (103ha)		(3) Whole Country	TOTAL (103Rai)	TOTAL (103ha)

Remark; A; Area on Provincial Level B; A × Area Rate (%)

Table 2.4.2 Farm Land use

ea	1992	A B			59,	65	164 148	33	L	128 13	335	38	:	29	49	127	32 32		124 12		50 2	236		·	127 102	52	100			133 93		36 36		217
Other Area (103 Rai)	_	BA			57	59	8	41	7.7	13	266	42		3	28	15	33	81	8	16	28	211	34		38	4	62	10		75	23	22	99	160
ರ ೮	1861	A	-	:	9	59	76	69	178	130		-		09	83	73	33	81	76	107	69				73	73				107	7.3	ដ	7.8	-
	-	B ,			<u>.</u>	==	5	ø	က	2	34	20		0	6	3	1	6	FT	'n	4	28	4		ខ្ព	0	11	2	- 	20	3	22	89	2
Area i)	1992	A			9	=======================================	g	or T	ដ	22				9	12	13	11	6	9	7	10				ដ	8				7	æ	27	81	
Vegetable Area (103 Rai)	-	B	-		٥	-	4	-	73	1	8	1		0	0	1	3	8	0	0	0	8	1		2	0	2	õ		0	0	8	14	9.
Veg.	1981	A		- 	0		4	ī	12	10				0	т	8	3	3	4	0	1	_			ಣ	1				ō	7	8	17	-
g a	_	B		· · ·	18	35.	শ্র	36	3	12	388	62		4	32	1.4	57	8	20	16	24	246	39		8	4	09	10		70	32	157	213	١
rop Ar ü	1992	A			38	160	8	8	300	120			· · · · · · · · · · · · · · · · · · ·	86	20	70	22	8	100	100	09				5	98				100	90	157	250	-
Fruit & Tree Crop Area (103 Rai)		B /			23	Ş	63	22	6	S	170	27		64	t-	ю	24	98	7	11	16	157	25		19	F	21	3	-	51	10	35	68	50
wit &	1981	A		· · · · · ·	30	9	70	2	09	8		-		30	16	25	24	98	70	73	04	_			77	56		-	<u></u>	73	36	35	105	-
Œ.	-				466	9	711	162	323	340	2,261	362		25	113	83	260	670	79	194	108	516	242		272	7.2	299	48		903	216	40	187	976
Area)	1992	8 1			430	460	790	270			-	_	:	490	250	340	260	670	790	290	270	-	-		340	540	_	H		1,290	540	6	220	Ļ
Field Crop Area (103 Rai)	_	BA			247	004	129	174	•		.796	287	- '	13	83	33	150	520	69	168 1	116	1,143	183		176	10	186	30			16	30	170	0.0
Field	1981	A			260	004	069	290	1,570	1,180				260	140	220	150	520	690	1,120	230	-			220	190		_		1,120	190	30	200	-
· • · · · ·	L	В		<u> </u>	228	530	1,431	1,056	225 1		3,710	594		12	257	114	280	000	159	201 1	704	2,727	436		954	14	470	75		938	108	280	578	200
ea C	1992				240	530	1.590	1,760	1,500	2,400	[°			240	570	570	280	1,000	1.590	1,340	1,760				570	270	 			1,340	270	280	680	
Paddy Area (103 Rai)	L	¥ 8		12	238		1,440 1.	1,248 1,	239 1		4,043	647		13	293		290	1	160 1	192 1	832 1	3,217	515		432	13	445	71	1	896	104	290	740	9.030
ğ C	1981	B		3	250		1,600	2,080	1,590		*			250	650	540	290	1,330 1	1,600	1,280	2,080	-			540	260	-			1,280	260	230	870	Ľ
	-	¥ ¥			836		ŀ	1,290 2,	626 1.	l	6,728	1,076	-	3	432	224		1,870 1	261 1	431	1	4,752	760	, , , , , <u>-</u>	968	4 8	344	151		2.009	380	540	1,114	4 043
Area)	1992	B	_		088	1	į .	2,150 1,	4,170		ı	1		880	096	1,120	630		2,610	2,870	2,150	*		,	1,120	950		_		2,870 2	950	240	1,310	Ľ
Total Farm Area (103 Rai)	-	×			570	1	1	1,488 2,	512 4,		6,282	1,005		30	392	172 1	200	2,020	244 2	387 2	992 2	4,737	758		688	28	716	114		1,806 2	220	380	1,080	2.48.C
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	TO.	4L (103ha)												-		-{	{	-	-	-	-	-	-	-	1		

Remark; A; Area on Provincial Level B; A × Area Rate (%)

Table 2.4.3 Cropping capability classified by soil units in KOK river basin

No.	Soil Units	Cropping Capability	Lowland Irrigation Practice	Area	Covered	Irrigation Classes
			Tractice	%	ha	Ciasses
l	Loamy Ustifluvents	Poorly suitable for paddy. Suitable for field crops, fruit crops and grassland. May have problem will limited root zone.	Unsuitable due to topography	8.3	24,300	U2s/R4t
3	Clayey Tropaquents	Suitable for paddy. Unsuitable for field crops. Moderately suitable for fruit crops due to shallow soil surface suitable for grassland.	Suitable	11.0	32,200	U5f/R2s
6	Clayey Calciustolls	Unsuitable for paddy. Suitable for field crops. Moderately suitable for fruit crops due to shallow soil surface suitable for grassland.	Unsuitable due to topography	1.1	3,300	U2s/R2t
8	Cleyey Tropaqualfs	Very suitable for paddy. Others are poorly suitable due to flood risk.	Suitable	18.1	53,000	U4f/R1
13	Skeletal Haplustalfs/ Skeletal Ustorthents	Unsuitable for paddy due to unfavorable topography. Moderately to poorly suitable for field crops. Moderately suitable for fruit crops. May have problem with shallow soil surface. Suitable for grassland.	Unsuitable due to to topography	1.1	3,300	U3s/R5t
15	Clayey Paleaquults	Suitable for paddy. Poorly suitable for field crops and grassland. Moderately suitable for fruit crops.	Suitable	2.8	8,200	U4f/R1s
16	Loamy Paleaquults	Suitable for paddy. Moderately suitable for field and fruit crops due to poor drainage. Poorly suitable for grassland due to flood risk.	Suitable	1.5	4,400	U3d/R2s
	Clayey Paleustults	Unsuitable for paddy due to unfavorable topography. Well suitable for field and fruit crops. Suitable for grassland.	Unsuitable due to topography	28.3	83,000	U2s/R5t
19	Skeletal Paleustuits	Unsuitable for paddy due to unfavorable topography. Moderately suitable for field and fruit crops. Suitable for grassland.	Unsuitable due to topography	6.8	20,000	U3s/R5t
	Loamy Paleustults	Unsuitable for paddy due to unfavorable topography. Well suitable for field and fruit crops. Suitable for grassland.	Unsuitable due to topography	8.6	25,000	U2s/R5t
22		Unsuitable for paddy due to unfavorable topography. Moderately suitable for field and fruit crops. Suitable for grassland.	Unsuitable due to topography	0.4	1,000	U3s/R5t
	Seletal Ustorthents	Unsuitable for paddy due to unfavorable topography. Moderately to poorly suitable for field crops. Moderately suitable for fruit crops due to shallow soil surface. Suitable for grassland.	Unsuitable due to topography	8.3	24,200	U3s/R5t
		Unsuitable for paddy due to unfavorable topography. Well suitable for field and fruit crops. Suitable for grassland.	Unsuitable due to topography	13.7	10,700	U2s/R5t
	Total			100.0	292,600	

Source: Land Development Department

Table 2.4.4 Cropping capability classified by soil units in ING river basin

No.	Soil Units	Cropping Capability	Lowland Irrigation Practice	Area	Covered	Irrigation Classes
				%	ha	
1	Loamy Ustifluvents	Poorly suitable for paddy. Suitable for field crops, fruit crops and grassland. May have problem will limited root zone.	Unsuitable due to topography	1.6	6,500	U2s/R4t
3	Clayey Tropaquents	Suitable for paddy. Unsuitable for field crops. Moderately suitable for fruit crops due to shallow soil surface suitable for grassland.	Suitable	0.7	2,900	USf/R2s
4	Clayey Paleustults	Unsuitable for paddy due to unfavorable topography. Well suitable for field and fruit crops. Suitable for grassland.	Unsuitable due to topography	3.5	14,500	U3s/R5t
8	Cleyey Tropaqualfs	Very suitable for paddy. Others are poorly suitable due to flood risk.	Suitable	31.0	127,000	U49/R1
12	Loamy Haplustalfs	Unsuitable for paddy due to unfavorable topography. Very suitable for field crops and well suitable for fruit crops. Also wuitable for grassland.	Unsuitable due to topography	6.1	25,200	UI/R5t
15	Clayey Paleaquults	Suitable for paddy. Poorly suitable for field crops and grassland. Moderately suitable for fruit crops.	Suitable	17.1	70,000	U4f/R1s
16	Loamy Paleaquults	Suitable for paddy. Moderately suitable for field and fruit crops due to poor drainage. Poorly suitable for grassland due to flood risk.	Suitable	0.8	3,200	U3d/R2s
18	Clayey Paleustults	Unsuitable for paddy due to unfavorable topography. Well suitable for field and fruit crops. Suitable for grassland.	Unsuitable due to topography	8.6	35,300	U2s/R5t
19	Skeletal Paleustults	Unsuitable for paddy due to unfavorable topography. Moderately suitable for field and fruit crops. Suitable for grassland.	Unsuitable due to topography	1.7	7,200	U3s/R5t
20	Loamy Paleustults	Unsuitable for paddy due to unfavorable topography. Well suitable for field and fruit crops. Suitable for grassland.	Unsuitable due to topography	6.7	27,300	U2s/R5t
22	Skeletal Haplustults	Unsuitable for paddy due to unfavorable topography. Moderately suitable for field and fruit crops. Suitable for grassland.	Unsuitable due to topography	4.5	18,300	U3s/R5t
23	Skeletal Haplustults/ Seletal Ustorthents	Unsuitable for paddy due to unfavorable topography. Moderately to poorly suitable for field crops. Moderately suitable for fruit crops due to shallow soil surface. Suitable for grassland.	Unsuitable due to topography	16.1	66,000	U3s/R5t
	Total	-	-	100.0	409,900	

Source: Land Development Department

Table 2.4.5 Cropping capability classified by soil units in NAN river basin

No.	Soil Units	Cropping Capability	Lowland Irrigation Practice		Covered	Irrigation Classes
				%	ha	
1	Loamy Ustifluvents	Poorly suitable for paddy. Suitable for field crops, fruit crops and grassland. May have problem will limited root zone.	Unsuitable due to topography	1.6	6,500	U2s/R4t
2	Skeletal Ustorthents	Unsuitable for paddy due to unfavorable topography. Poorly suitable for field crops. Moderately suitable for fruit crops and grassland.	Unsuitable due to topography	7.3	14,600	U4s/R5t
19	Skeletal Paleustults	Unsuitable for paddy due to unfavorable topography. Moderately suitable for field and fruit crops. Suitable for grassland.	Unsuitable due to topography	1.7	7,200	U3s/R5t
20	Loamy Paleustolts	Unsuitable for paddy due to unfavorable topography. Well suitable for field and fruit crops. Suitable for grassland.	Unsuitable due to topography	6.7	27,300	U2s/R5t
24	Skeletal Haplustults/ Seletal Palcustults	Unsuitable for paddy due to unfavorable topography. Moderately suitable for field and fruit crops. May have problem with limited root zone. Suitable for grassland.	Poorly suitable	27.4	54,600	U3s/R5t
	Total		-	100.0	199,400	

Source: Land Development Department

2.5 Agricultural Condition

This part of the main report is supported by the following back-up data;

- Harvested area and production of major crops in Chao Phraya basin and project area
- Number of livestock (1993)
- Fish culture by basins and provinces

Table 2.5.1 . Harvested Area and Production of Major Crops in Chao Phraya Basin and Project Area

	_		Major Rice	Rice			Second	Rice			Maize			ပ်	Cassava			Sugar	Cano			Sochoon	2	
	Arca	Harvest	cst	Pag.	+011	Harvest	vest	۶		Harvest	┝	-	L	Harvest	'		Ha	Harvest	۱I		Harvage	12		T
Basin & Province	Rate	Area (103 Rai)	ر چ چ	(103 Ton)	Ton)	Area (103 Rui)	ca Rui)	(103 T	avet Ton)	Area (103 Rai)		Product (102 Ton)		Area	7.5	Product (103 Ton)	< ?	Area	 g g	Product 103 Ton)	Area		Product (103 Ton	duct Ton)
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(I) Nan Basin								T		-	-	+	$\frac{1}{1}$	-	_	_	-				- -	+	-	Τ
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Phichit	8	1	737		290	254	152	205	123	S.	2,2	200			<u>`</u>					İ	9 9	138	3	7
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Nakhon Sawan	2	ļ.	181	740	74	125	12	8	†ª	5.70	23	32.5	ı		ľ	١	ľ		1			3 :	3 8	5
SUB TOTAL (103Rai)		1	2,686	12	1,168	682	3	83	315	2,389		1	ı	ľ		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	548 557	187	4 687	3,10	52.1	725	67 23	7
-00- (103ha)		936	430	2,522	1,168	109	77	499	315	382	1				Ì					1	3 :	200	2	3 2
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Lampang	20	428	86	208	42	3	1	2		22	4	10	~	2		*	1 42	8	290	82	39	ac.	-	T
Phrao	ş		218	104	104	•	,			98	98	33	33	64	67	22	5	Ĺ		-	88	888	2	°
Sukhothai	ड़	726	726	268	268	58	58	39	39	77	22	92	92		l I		2 156		-	-	383	383	35	T _k
Phitsanulok	2	1,112	11	486	49	251	25	169	1,1	222	22	104		242 2	24 534				ł		215	22	\$3	7
Khamphaeng Phet	25.		175	563	3 6	154	23	102	15	297	45	137	21 30	363 8	54 803			1 65	4	ľ	213	32	3	1
Phichit	Ç	- 1	492	483	193	254	102	202	25	89	36	29	12	8	8	22	8 23	3	194		61	∞	₹	Į.
SUB TOTAL (103Rai)		5,502	2,021	2,400	838	726	211	521	154	1,218	362	547	148 6	622 8	84 1,378	2		8 268	٥	12.	786	545	82	Š
		880	323	2,400	838	116	36	52:	154	198	58	547	148 10	1001	13 1,378	8 190	116	6 43	L	2,420	158	87	200	100
(3) Wang Bann (1,080,000ha)		- 1 T	•				· · · · · ·				,					,							1 - 1	
gradmari	2		342	208	166	3	2	2	2	22	18	9	œ	(4	23	4	3 42	34	230	232	66	[S		72
Tak	8	219	=	16	S			l	-	338	1.1	166	×0	-	ļ.	3		7			137	*	27	7-
SUB TOTAL (103Rai)		647	353	552	171	က	2	2	2	360	35	176	16	3	2	4	3 49	34	ľ	R	176	38	8	1
•		104	999	299	171		•	2	2	58	9	176	16	-		4		8			28	9	26	F
(4) Ping Basia (3,390,000hs)				. :	- 1				L					<u></u>							-	-		T
Khamphaeng Phet	2	7	816	563	394	154	108	102	71	297	208	137	36	363, 254	4 803	3 562	2 431	302	4,077	2,854	211	148	23	T _E
Tak	\$	-	88	16	36	•			٠	338	135	166	93			3	-	7	ļ		137	55	27	T
Lamphun	100 000	428	428	208	208	က	ਲ	ন	2	6	6	4	4		ļ.		<u> </u>			•	2~	-	-	T
Chiang Mai	88	519	3	277	235	=	6	S	4	29	25	8	7	-	ļ.,	_		3	62	23	3	139	99	l
SUB TOTAL (10ºRai)		2,331	1,773	1,139	873	168	120	100	111	673				364 254	4 806	6 563	3 441	1 308	4,168	2,9	518	349	109	E.
-Do-(10-na)		973	284	1,139	873	27	61	109	E	108	90	318	173	58 4	41 806	6 563	3 71	1 49	4,168	2,904	83	92	108	[E]

Ĺ				Major Rice	Rice	\mid	8	Second Ric		_	×	Maize			Cassava	1Va	-	S	Sugar Ca	Cane	_	S	Soybean		Г
_		٠.				1		-									1		<u> </u>		╀	1400000	ŀ		T
୍ର ଘ	Basin & Province	Area Rate (%)	Area (103 Rai)	; , (i	Product (103 Ton)	onct on)	Arca Arca (103 Rai)		Product (103 Ton)		narvest Area (103 Rai)	Pro (103	Product (103 Ton)	Area Area (103 Rai)	ea Rai)	Product (103 Ton)	ou)	Area (103 Rai)		Product (103 Ton)	 	Area (103 Rai)		Product (103 Ton)	
			<	23	<	33	\ \	В Л	E	<	13	٧	В	<	2	<	13	٧	B /	٧	B /	A B	٧	æ	
8	Pasak Basin (1,630,000ha)	:														 ,					·				
	Phochabun	8	1.087	870	520	416		-		1,160	928	8 590	472	24	13	26	45.	7.2	22	254	203	172	138	38	ä
	Lop Buri	3	898	623	309	185	99	34	36	22 800	0 480	382	525	36	57	226	136	245	147 1	1,864 1	1,118	96	58	24	3
	Saraburi	7.0	391	274	164	115	25	18	15	11 297	7 208	8 173	121	11	8	28	20	39	27	319	223	15	11	*	63
	SUB TOTAL (103Rai)		2,376	1,683	993	716	81	52		33 2,257	1.616	6 1,145	822	130	84	310	201	311	196 2	2,437	1,544	283	207	99	£.
	- Do - (103ha)		380	592	656	216	13	8		33 361	11 259	9 1,145	822	21	£1	310	201	20	31 2	2,437	1,544	45	33	99	£]
9)	Sakae Krang Basin (520,000ha)					ļ <u></u>						,													
<u> </u>	Khamphaong Phot	15	1,165	176	563	84	154	23		15 297		5 137	7 21	363	54	803	120	431	6.5	4,077	612	211	32	\$3	7
	Nakhon Sawan	20	1.809	362	740	148	125	25	94		114		5 61	130	26	299	09	331		3,099	029	124	25	23	ख
L	Uthai Thani	30	458	137	163	49	11	ဗ		2 256		7 130	68 (398	119	110	33	953	286	70	21	91	لغما
	SUB TOTAL (103Rai)		3,432	674	1,466	281	290			36 1,123	3 236	522	111	658	130	1,500	299	872	164 8	8,129	815,1	405	78	ઢ	[2]
	-Do-(103ha)	-	459	108	1,466	281	46	8	203	36 180		38 522	111	105	21	1,500	299	140	26 8	8,129	1,518	65	12	90	18
9	Chao Phraya Delta/ Tha Tin																								
	Nakhon Sawan	20	1,809	1,266	740	518	125	88		66 670	339	9 255	621 2	130	16	299	209	331	232 3	3,099	2,169	124	87	59	ង្គ
2-5	Lop Buri	07	898	359	309	124	99	22	36	14 800	320		z 153	95	38	226	06	242	98	1,864	746	96	38	24	ត្ត
	Uthai Thani	32	458	160	163	57.	11	4	7	2 256		90 130	99 (0	165	89	398	139	110	39	953	334	20	25	16	ख
	Chai Nat	100	814	814	474	474	318	318	227 2	227 2		20 7	7 7	78	78	174	174	37	37	326	326	3	3		
	Ang Thong	100	346	345	153	153	74	74	57	67		<u> </u>	•		•	•		20	20	271	271	Ţ	1	-	
	Saraburi	02	180	78	164	33	25	2	15	3 297		59 173	3 35	11	23	28	9	39	8	319	23	15	3	4	1
	Sing Buri	100	324	324	183	183	80	80		61		·	•	,	٠	•	7	36	36	474	474	1	1	•	[']
	Ayuttaya	100	876	876	352	352	216	216		157	-				•		-	•	-+			•	-		
	Pathum Thani	100	296	569	200	200	234	234	176 1	176					•	•	- -	-			-	•	-	٠.,	
	Nonthaburi	100	113	113	89	89	128	128		105	-	•	•		,	•	•	•	•	•	- 1	•			
	Bangkok Motropolis	100	143	143	82	82	7.3	73		53					•	•	-	•		,	•		•	•	
	Samut Prakan	100	63	59	36	35	23			18	_					•		•		-		-	-		_
	Samut Sakhon	90	37	33	20	18	13	12	6	8				,	•	-		L.,	-	•	-	-;-	-		
	Chachoeng Sao	10	789	18	393	39	306	31		20 1	18	2 8	8 1	431	43	943	94	89	7	246	98	28	3	9	1
	Nakhon Pathom	100	324	324	231	231	306	306		245		•	.,	38	38	77	44	111	111	1,116	911'1	-	·•	-, -	•
	Suphan Buri	100	890	890	530	530	697	296	527 5	8 22	88 8	88 31	1 31	32	32		77	579	579	5,383	5,383	17	7		Γ'
	Kanchanaburi	01	326	33	113	11	118	12	92	8 15	159 1	16 53	3 5	5 201	20	489	49	776	78 (6,683	899	10	7	2	
	SUB TOTAL (103Rai)	-	8,892	6,192	4,231	3,129	2,809	2,329 2,0	19	1,747 2,208	994	1,039	9 457	1,181	400	2,711	918	2,351	1.244 2	21,034,11	11,606	349	163	8:	38
	- Do - (103ha)		1,423	991	4,231	3,129	449	273 2,0	19	1,747 35	353 159	1 039	9 457	7 189	8	2,711	915	376	199 2	21,034 1)	11,606	26	20	81	38
	TOTAL		4,645	2,461	13,050	7,176	760	513 3,4	9	2,364 1,637	37 711	4,892	2 2,117	7 539	192	7,638	2,719	584	277 33	32,721 1	15,814	551	230	735	88

		ļ	Major	Major Rice		~1	Second Rice	Ricc			Maize				Cassava	a		Su	Sugar Cane	ne			Soybean	<u>ا</u> ۔	
Basin & Province	Arca Rate (%)	Harvest Area (103 Rai)	vest ca Rai)	Pro (100	Product (103 Ton)	Harvest Area (103 Rai)	est a (ai)	Produ (103 T	uct Fon)	Harvest Area (103 Rai)		Product (103 Ton)		Harvest Arca (103 Rai)		Product (103 Ton)		Harvest Area (103 Rai)		Product (103 Ton)	ļ	Harvest Area (103 Rai)	<u> </u>	Product (103 Ton)	g çt
		٧	Œ	٧	ន	٧	B	<	22	- <	m	 	83	<	60	_	B	133	_	<	2	▼	- E	4	l E
2. Project Area	_						-	-	\vdash		-	-	-	-	\vdash		╂.	-	-	-	-	-			
(1) Kok & Ing Basin	_					-				-		-	-	-	-	╁	<u> </u> 	-	-	-	-	-	-	+	
Chiang Mai	15	519	78	277	24	::	7	32	F	83	4	- -	-	-	-	╁-	-	 **	-	82	4	163	ষ	18	"
Chiang Rai	70	026	644	452	316	18	13	S	9	288	202	143	198	1.7	12	88	27.	-	-	1	150	28.	8	6	
Phayao	55	455	250	209	115	N)	3	3	8	178	86	84	46	1	<u></u>	က	2	-	- ,	7	┝	7	4	=	
SUB TOTAL (103Rai)	,	1,894	972	938	473	34	18	1.1	ø	495	304	235	147	18	53	4	29	4	-	36	Ö	198	2	3	ř
-Do-(103ha)		303	156	828	473	ю	က	17	6	7.9	43	235	147	<u>۳</u>	73	4	82	-	-	<u>8</u>	۵	33	 	2	ľ
(2) Upper Nan							-	-		-		┝	_		-	-	-	-	-	 	┞		┢	-	
Nan	95	169	191	79	7.5	7	H		17	247	235	124	118	<u>ප</u>	က	1-	7	-	-	-	-	25	77	4	ľ
SUB TOTAL (103Rai)	 	691	191	19	75	1	ī	=	=	247	235	124	118	က	65	7	7	-	ļ.,	ļ.,	-	25	2	3	
-00- (10Jha)		1.2	92	79	7.5	-	+	=	F	04	38	124	118	 	 -	-	-	-	-		┝	4	7	च	ĺ`
TOTAL (103ha)		330	182	1,017	648	V)	8	18	ខ្ព	119	87	359	265	ب	2	42	30	-	-	8	6	36	22	124	ľ
(3) Whole Country										-	-	-	-								-			-	
TOTAL (103Rai)	100	100 51,844 51,844 18,161 18,161	51.844	18,161	18,161	4,251	4,251	2,950	2,950	8,446	8.446	3,965	3,965	8,106 8	8,106 18	18,164 1	18,164 5,	5,767 5	5,767 50	50,597 5	50,597	2,471	2,471	528	528
TOTAL (103ha)	202	8,295	8,295	18,161	8,295 8,295 18,161 18,161	680	680	2,950	2,950	1,351	1,351	3,965	3,965	1,297	1,297 18,164 18,164	3,164 1		923	923 50	50,597 S	50,597	395	395	823	228
								ł	1	ľ	ı	ı	ı	ı			ł	Ì				ı			

Area on Provincial Level A X Area Rate (%) Κ̈́ Kemark;

Table 2.5.2 No. of Livestock (1993)

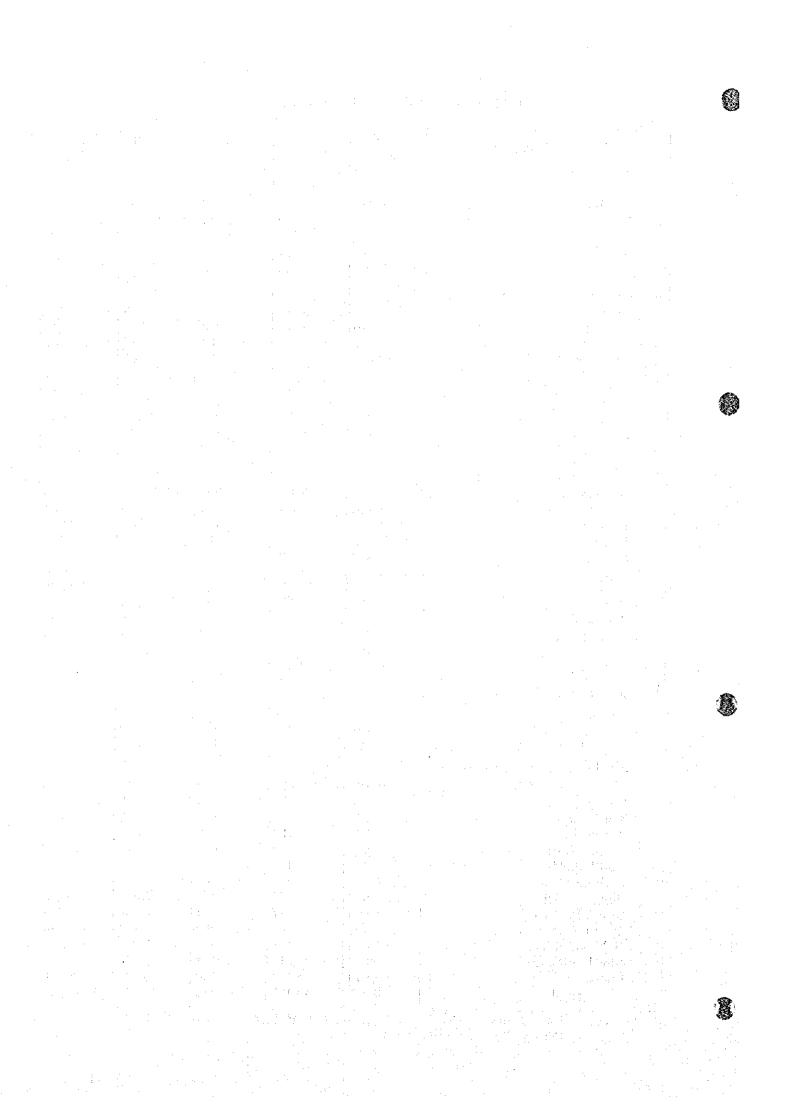
	Area	Buf	falo	Cat	tle	Sw	ine
	Rate (%)	Α	В	Α	В	A	В
1. Chao Phraya Basin	7.52						
(1) Nan Basin							
Nan	95	52.0	49.4	59.9	56.9	68.2	64.8
Uttradit	100	25.3	25.3	89.0	89.0	52.9	52.9
Phitsanulok	90	35.6	32.0	106.4	95.8	70.8	63.7
Phichit	60	16.1	9.7	55.8	33.5	63.0	37.8
Phechabun	15	52.7	7.9	192.6	28.9	77.3	11.6
Nakhon Sawan	10	45.5	4.6	198.5	19.9	52.8	5.3
SUB TOTAL	_	227.2	128.9	702.2	324.0	385.0	236.1
(2) Yom Basin					:		<u></u>
Nan	5	52.0	2.6	59.9	3.0	68.2	3.4
Phayao	45	43.9	19.8	95.2	42.8	57.1	25.7
Lampang	20	74.0	14.8	149.2	29.8	85.6	17.1
Phrae	100	37.7	37.7	67.3	67.3	71.0	71.0
Sukhothai	100	16.8	16.8	106.9	106.9	61.2	61.2
Phitsanulok	10	35.6	3.6	106.4	10.6	70.8	7.1
Khamphaeng Phet	15	22.7	3.4	70.4	10.6	64.2	9.6
Phichit	40	16.1	6.4	55.8	22.3	63.0	25.2
SUB TOTAL	-	298.8	105.1	711.1	293.3	541.1	220.3
(3) Wang Basin					***		
Lampang	80	74.0	59.2	149.2	119.4	85.6	68.5
Tak	5	27.4	1.4	125.2	6.3	37.1	1.9
SUB TOTAL	-	101.4	60.6	274.4	125.7	122.7	70.4
(4) Ping Basin					1:1		
Khamphaeng Phet	70	22.7	15.9	70.4	49.3	64.2	44.9
Tak	40	27.4	11.0	125.2	50.1	37.1	14.8
Lamphun	100	16.0	16.0	52.3	52.3	47.0	47.0
Chiang Mai	85	84.2	71.6	137.6	117.0	228.5	194.2
SUB TOTAL	-	150.3	114.5	385.5	268.7	376.8	300.9
(5) Pasak Basin			1.71				
Phechabun	80	52.7	42.2	192.6	154.1	77.3	61.8
Lop Buri	60	19.2	11.5	211.2	126.7	80.8	48.5
Saraburi	70	22.9	16.0	78.0	54.6	58.8	41.2
SUB TOTAL	; -	94.8	69.7	481.8	335.4	216.9	151.5
(6) Sakae Krang Basin			1				
Khamphaeng Phet	15	22.7	3.4	70.4	10.6	64.2	9.6
Nakhon Sawan	20	45.5	9.1	198.5	39.7	52.8	10.6
Uthai Thani	30	45.0	13.5	53.2	16.0	54.3	16.3
SUB TOTAL	-	113.2	26.0	322.1	66.3	171.3	36.5

productive (in the contractive for the state of the state	Area Rate	Bu	Malo	Ca	ttle	Sw	ine
	(%)	A	В	A	В	Λ	В
(7) Chao Phraya Delta							
Nakhon Sawan	70	45.5	31.9	198.5	139.0	52.8	37.0
Lop Buri	40	19.2	7.7	211.2	84.5	80.8	32.3
Uthai Thani	35	45.0	15.8	53.2	18.6	54.3	19.0
Chai Nat	100	16.5	16.5	80.0	80.0	40.4	40.4
Ang Thong	100	6.0	6.0	50.3	50.3	31.1	31.1
Saraburi	20	22.9	4.6	78.0	15.6	58.8	11.8
Sing Buri	100	3.9	3.9	24.7	24.7	38.0	38.0
Ayuttaya	100	21.7	21.7	44.3	44.3	35.3	35.3
Pathum Thani	100	4.0	4.0	7.6	7.6	14.0	14.0
Nonthaburi	100	0.9	0.9	3.2	3.2	2.8	2.8
Bangkok Metropolis	100	1.4	1.4	6.8	6.8	6.9	6.9
Samut Prakan	100	0.1	0.1	1.1	1.1	10.8	10.8
Samut Sakhon	90	0.1	0.1	1.2	1.1	5.0	4.5
Chachoeng Sao	10	14.0	1.4	51.6	5.2	185.9	18.6
Nakhon Pathom	100	3.0	3.0	46.0	46.0	365.7	365.7
Suphan Buri	100	26.0	26.0	146.0	146.0	150.5	150.5
Kanchanaburi	10	-	-	-	-	-	-
SUB TOTAL	-	230.2	145.0	1,003.7	674.0	1,133.1	818.7
				:		+ 1d+	
TOTAL		1,215.9	649.8	3,880.8	2,087.4	2,946.9	1,834.4
				·			
2. Project Area							1
(1) Kok & Ing Basin			:			jost	
Chiang Mai	15	84.2	12.6	137.6	20.6	228.5	34.3
Chiang Rai	70	86.8	60.8	92.7	64.9	132.0	92.4
Phayao	55	43.9	24.1	95.2	52.4	57.1	31.4
SUB TOTAL		214.9	97.5	325.5	137.9	417.6	158.1
(2) Upper Nan	1 1			3			
Nan	95	52.0	49.4	59.9	56.9	68.2	64.8
SUB TOTAL	-	52.0	49.4	59.9	56.9	68.2	64.8
				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1000		
TOTAL	_	266.9	146.9	385.4	194.8	485.8	222.9
		-			e ²	144	1,50
(3) Whole Country					14 11 19	100	j filozofi Lipina
TOTAL	100		4,754		6,360	45 15 T	4,985

Table 2.5.3 Fish Culture by Basins and Provinces

Table 2,0,0 Pis	· · · · · · · · · · · · · · · · · · ·				
	No. of	Units	Area	Production	Valve
Basins and Provinces	farms	Units	(ha)	(ton)	(10 ³ baht)
		<u> </u>			
1. Whole Country		70 000	0.000	0 500	001 000
North East	41,244	53,691	8,302	9,597	261,830
North	29,409	40,058	4,581	22,073	485,374
Central	21,730	40,606	18,385	74,790	1,958,442
South	15,973	23,391	1,000	4,486	128,010
Total	108,356	158,016	32,268	110,946	2,833,656
2. Kok, Ing and Nan Basins					·
	3,201	5,101	642	840	22,966
Chiang Rai	2,315	3,285	313	204	6,324
Phayao	919	1,072	81	117	3,327
Nan	6,435	9,458	1,036	1,161	32,617
Total	0,430	3,400	2,000	1	,
3. Lower Nan Basin				144	4.000
Uttaradit	1,267	1,516	140	179	4,032
Phitsanulok	1,906	2,688	268	1,625	35,023
Phichit	1,190	1,508	156	1,064	20,987
Total	4,363	5,712	564	2,868	60,042
4. Ping, Wang and Yom Basins					
1 -	2,478	3,117	267	353	11,568
Chiang Mai	1,164	1,271	32	47	1,464
Mae Hong Son	1,297	1,479	131	136	2,513
Lampang	715	824	104	90	2,448
Lamphun	1,582	2,442	341	899	16,771
Sukhothai	1,016	1,294	129	125	3,216
Tak		1,234	135	1	10,530
Phrae	995	1,063	128		15,623
Kamphaeng Phet	735		1,416		231,551
Pechabun	6,819	9,198	1,410	1,410	30,603
Uthai Thani	688	752	253		66,428
Nakhon Sawan	1,122	2,109		1	392,715
Total	18,611	24,888	2,980	18,043	392,710
5. Pasak Basin					
Lop Buri	869	1,172	232		57,813
Sara Buri	639	1,016	190		11,185
Total	1,508	2,188	422	3,587	68,998
· · · · · · · · · · · · · · · · · · ·	1,198	1,590	199	515	11,785
Chai Nat	540	821	86	1	7,609
Sing Buri	395	552	122	4	28,066
Ang Thong	2,129	3,106	1,160		50,817
Ayuthaya		6,080	3,803		
Suphan Buri	2,851	489	190		
Nonthaburi	229		940		1
Pathum Thani	1,144	2,042			1
Bangkok Metro	821	2,023	2,069		I -
Samut Prakarn	505	577	1,384		
Samut Sakhon	453	1,006	989		
Nakhon Pathom	1,640	4,458	2,638		
Kanchanaburi	647	1,217	118		
Chachoeng Sao	673	1,164	540		
Total	13,225	15,125	14,238	58,045	1,658,889
Source: 1992 Freshwater Fishfa	um Braduatia	n Ctatiatia Fi	chary Econe	mice Divisio	n

Source: 1992 Freshwater Fishfarm Production Statistic Fishery Economics Division Department of Fisheries. 2-5-7



2.6 Water Resources Development in Chao Phraya Basin

This paragraph contains the following back-up data;

Tables

- Existing irrigation projects in Chao Phraya river basin
- Staged development of irrigated area in the Ping river basin
- Agricultural Water Demand in Ping Basin (1/3 to 3/3)
- Staged development of irrigated area in the Wang river basin
- Agricultural Water Demand in Wang Basin
- Staged development of irrigated area in the Yom river basin
- Agricultural Water Demand in Yom Basin (1/2 to 2/2)
- Staged development of irrigated area in the Nan river basin
- Agricultural Water Demand in Nan Basin (1/2 to 2/2)

Figures

- Staged Development of Irrigated Area
- Staged Development of Irrigated Area in Ping Basin
- Staged Development of Irrigated Area in Wang Basin
- Staged Development of Irrigated Area in Yom Basin
- Staged Development of Irrigated Area in Nan Basin

Table 2.6.1 Existing Irrigation Projects in Chao Phraya River Basin

	Larg	Large/Medium Scale Project	le Project	0	Small Scale Project	oject	Pump	Total	Total	Rate
Basin	Nos. of Project	Active Storage (MCM)	Irngable Area (ha)	Nos. of Project	Active Storage (MCM)	Irrigable Area (ha)	Irrigation Area (ha)	Irrigable Area (ha)	Cropland Area (ha)	of Irrigation (%)
Ping	∞	10,191	112,600	392	32	135,000	12,800	260,000	650,000	40
Wang	4	123	19,100	135	09	42,100	7,200	68,000	150,000	45
Yom	4	32	33,900	244	57	91,600	6,700	132,000	760,000	17
Nan	11	6,735	112,300	260	32	117,700	48,400	278,000	1,080,000	26
Sakae Krung	«	152	38,700	96	3	56,500		92,000	260,000	35
Pasak	19	108	79,400	186	19	38,900	4,400	121,000	910,000	13
Chao Phraya Delta	39	227	1,221,700	316	28	134,000	•	1,281,000	2,070,000	62
Total	93	17,568	1,617,700	1,629	231	615,800	79,500	2,232,000	5,880,000	38
Note: Active storage canacity for large/medium scale accidering	oe canacity fo	yr large/medium s		dec those for	Chumbal and C	doc those for Dhumbled and Oliver the second to the	14 Jan 70 A 70			

Active storage capacity for large/medium scale project includes those for Bhumibol and Sirikit reservoirs both under EGAT.

Table 2.6.2 Staged Development of Irrigated Area in the Ping River Basin

I ADIC L.U	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	>		71178			0		
Large Medium	Accomu -lated	Small Scale	Accumu -lated	DEDP Pump	Accumu -lated	Others	Accumu -lated	Total	Accumu -lated
114900	114900	0	0	0	0	0	. 0	114900	114900
0	114900	o	0	0	0	0	0	0	114900
99250	214150	0	0	0	0	0	0	99250	214150
0	214150	0	0	0	0	0	0	0	214150
36000	250150	0	0	0	0	0	0	36000	250150
237500	487650	0	0	0	0	1200	1200	238700	488850
3300	490950	0	0	0	0	0	1200	3300	492150
9400	500350	. 0	o	0	0	4886	6086	14286	506436
107000	607350	11100	11100	0	0	827	6913	118927	625363
29450	636800	83450	94550	0	0	7458	14371	120358	745721
16700	653500	36150	130700	0	0	3000	17371	55850	801571
272350	925850	46870	177570	0	0	5683	23054	324903	1126474
23900	949750	58094	235664	0	0	4100	27154	86094	1212568
8500	958250	37919	273583	11420	11420	6700	33854	64539	1277107
22500	980750	44396	317979	3720	15140	3000	36854	73616	1350723
152000	1132750	65878	383857	0	15140	460	37314	218338	1569061
3500	1136250	32668	416525	9270	24410	0	37314	45438	1614499
31700	1167950	33170	449695	1490	25900	6389	43703	72749	1687248
4250	1172200	25753	475448	10010	35910	4500	48203	44513	1731761
0	1172200	30085	505533	3100	39010	400	48603	33585	1765346
0	1172200	25257	530790	7100	46110	3000	51603	35357	1800703
100250	1272450	45507	576297	21410	67520	1354	52957	168521	1969224
0	1272450	14350	590647	12210	79730	1610	54567	28170	1997394
0	1272450	0	590647	78000	157730	200	54767	78200	2075594
	Large Medium 114900 0 99250 0 36000 237500 3300 9400 107000 29450 16700 272350 23900 8500 22500 152000 3500 31700 4250 0 100250 0	Large Medium Accomu -lated 114900 114900 0 114900 99250 214150 0 214150 36000 250150 237500 487650 3300 490950 9400 500350 107000 607350 29450 636800 16700 653500 272350 925850 23900 949750 8500 958250 22500 980750 152000 1132750 3500 1136250 31700 1167950 4250 1172200 0 1172200 100250 1272450 0 1272450	Large Medium Account Interest Inter	Large Medium Accomu -lated Small Scale Accumu -lated 114900 114900 0 0 0 114900 0 0 99250 214150 0 0 0 214150 0 0 36000 250150 0 0 237500 487650 0 0 3300 490950 0 0 9400 500350 0 0 107000 607350 11100 11100 29450 636800 83450 94550 16700 653500 36150 130700 272350 925850 46870 177570 23900 949750 58094 235664 8500 958250 37919 273583 22500 980750 44396 317979 152000 1132750 65878 383857 3500 1167950 33170 449695 4250 1172200	Large Medium Accumu -lated Small Scale Accumu -lated DEDP Pump 114900 114900 0 0 0 0 114900 0 0 0 99250 214150 0 0 0 0 214150 0 0 0 36000 250150 0 0 0 237500 487650 0 0 0 3300 490950 0 0 0 9400 500350 0 0 0 107000 607350 11100 11100 0 29450 636800 83450 94550 0 272350 925850 46870 177570 0 23900 949750 58094 235664 0 8500 958250 37919 273583 11420 22500 980750 44396 317979 3720 152000 1132750 65878 383857 <td>Large Medium Accumu -lated Small Scale Accumu -lated DEDP Pump Accumu -lated 114900 114900 0 0 0 0 0 0 114900 0 0 0 0 0 99250 214150 0 0 0 0 0 0 214150 0 0 0 0 0 36000 250150 0 0 0 0 0 237500 487650 0 0 0 0 0 3300 490950 0 0 0 0 0 9400 500350 0 0 0 0 0 107000 607350 11100 11100 0 0 0 16700 653500 36150 130700 0 0 0 23900 949750 58094 235664 0 0 0 8500 958250</td> <td>Large Medium Accumu Inted Small Scale Accumu Inted DEDP Pump Accumu Inted Others 114900 114900 0 0 0 0 0 0 0 114900 0 0 0 0 0 0 99250 214150 0 0 0 0 0 0 0 214150 0 0 0 0 0 0 36000 250150 0 0 0 0 0 0 237500 487650 0 0 0 0 0 0 9400 500350 0 0 0 0 0 0 9400 50350 0 0 0 0 3827 0 0 4886 107000 607350 11100 11100 0 0 3827 0 29450 63680 33450 94550 0 0 7458 0<td> Large Medium</td><td> Large Medium</td></td>	Large Medium Accumu -lated Small Scale Accumu -lated DEDP Pump Accumu -lated 114900 114900 0 0 0 0 0 0 114900 0 0 0 0 0 99250 214150 0 0 0 0 0 0 214150 0 0 0 0 0 36000 250150 0 0 0 0 0 237500 487650 0 0 0 0 0 3300 490950 0 0 0 0 0 9400 500350 0 0 0 0 0 107000 607350 11100 11100 0 0 0 16700 653500 36150 130700 0 0 0 23900 949750 58094 235664 0 0 0 8500 958250	Large Medium Accumu Inted Small Scale Accumu Inted DEDP Pump Accumu Inted Others 114900 114900 0 0 0 0 0 0 0 114900 0 0 0 0 0 0 99250 214150 0 0 0 0 0 0 0 214150 0 0 0 0 0 0 36000 250150 0 0 0 0 0 0 237500 487650 0 0 0 0 0 0 9400 500350 0 0 0 0 0 0 9400 50350 0 0 0 0 3827 0 0 4886 107000 607350 11100 11100 0 0 3827 0 29450 63680 33450 94550 0 0 7458 0 <td> Large Medium</td> <td> Large Medium</td>	Large Medium	Large Medium

Table 2.6.3(1) Agricultural Water Demand in Ping Basin (1/3) (Su

	A AUTC 4.0.0(4)	Í		TEST TOTAL THE ALCE		THE THE TAR	AE DEASIE	(6/4)		zed iro	m the 🗷	Demand in Fing Basin (1/3) (Summarized from the 25 Basin Study)	tudy)		
Development Stage			1993					1996					2006		
	Project Area (rai)	Irrigated Area (rai)	Inten -sity	Water Demand (MCM)	Spec. Dem. (mm)	Project Area (rai)	Irrigated Area (rai)	Inten -sity	Water Demand (MCM)	Spec. Dem.	Project Area (rai)	Irrigated Area	Inten -sity	Water Demand	Spec.
Bhumiphol Dam									,					\(\frac{1}{2}\)	Ì
Mac Ngat Dam	30000	30000	150	108.24	2255	30000	30000	150	108.24	2255	30000	30000	150	76.43	1592
Mac Kuang Dam	175000	102000	122	168.36	1032	175000	102000	122	168.36	1032	175000	102000	122	168.36	1032
Mac Khan Dam											20000	20000	150	47.7	1491
Mac Fak Weir	70000	70000	150	252.55	2255	70000	70000	150	252.55	2255	70000	70000	150	178.32	1592
Mat Taeng Weir	148000	135000	127	226.21	1047	148000	125000	129	214.89	1074	148000	125000	119	247.72	1239
Mac Ping Kao Weir	88000	88000	134	312.71	2221	88000	88000	125	286.57	2035	88000	88000	150	254.78	1810
Lower Ping Project	275000	270000	131	551.45	1277	410000	410000	103	822.17	1253	545000	545000	130	1373.99	1576
Kam Phaeng Phet Weir											165000	165000	130	415.98	1576
Mac Tub Res.	26000	8500	130	22.3	1640	26000	8500	130	22.3	1640	26000	8500	130	22.3	1640
Huai Mac Khon Res.						2000	4000	130	8.45		2000	4000	130	8.45	1320
Huai Mac Kon Res.		:	·			10600	4400	130	9.30	1321	10600	4400	130	9.30	1321
Khlong Khayang Res.											3600	2600	130	5.39	1296
Khlong Prai Res.											4000	4000	130	8.30	1297
Nam Lai Res. (1)				.1						1	9800	7900	150	18.57	1469
Khlong Khlung Res.				:	-						11000	10000	150	23.51	1469
Mac Tacy Weir					••	1600	1600	145	13.26	5180	1600	1600	150	3.82	1492

Table 2.6.3(2) Agricultural Water Demand in Ping Basin (2/3) (Summarized from the 25 Basin Study)

i.		Table 2.0.3(2) Agricultural Water Delitatio in Fing Dasin (4.3) (Junimarized ment 2.3 Dasin Study)	15W (7)	zenita:	TAL AVAICE	Dellia	TO VIT T VI	ig Dasiii	200	Millingi	717 727	אווז רווב אכן	Dasan Ci	(Kan)		
	Development Stage	:		-1993					1996				``	2006		
·		Project Area	Irrigated	Inten	Water	Spec. Dem.	Project Arca	Irrigated Arca	Inten	Water	Spec. Dem.	Project Area	Irrigated Area	Inten	Water	Spec. Dem.
		(ra:)	(rai)	-sity	(MCM)	(mm)	(rai)	(rai)	-sity	(MCM)	(mm)	(rai)	(rai)	-sity	(MCM)	(mm)
	Hin Changok Weir						18000	18000	150	4232	1469	18000	18000	150	42.31	1469
	Nong Saleak Weir											0009	0009	150	14.31	1491
	Khlong Suan Mak Weir											37000	2000	116	11.1	1388
· · ·	Khlong Wang Sai Weir											30000	15000	150	44.28	1845
	Small/Medium Ping-1	55434	55434	110	44.76	505	05059	65050	110	47.01	452	88950	88950	110	52.64	370
	Small/Medium Ping-2	22157	22157	110	14.36	405	26700	26700	110	15.42	361	38100	38100	110	18.1	297
	Small/Medium Ping-3	31247	31247	110	11.42	228	39500	39500	110	13.36	211	60100	60100	110	18.19	189
•	Small/Medium Ping-4	6640	6640	110	1.56	147	8600	8600	110	2.02	147	15400	15400	110	3.15	128
2-6-5	Small/Medium Ping-5	34924	34924	110	11.66	209	45700	45700	110	13.99	191	70200	70200	110	19.72	176
5 1	Small/Medium Ping-6	115380	115380	110	11.06	488	135950	135950	110	94.93	436	187350	187350	110	107	357
:	Small/Medium Ping-7	35084	35084	110	11.75	209	44600	44600	110	13.99	196	68300	68300	110	19.55	179
	Small/Medium Ping-8	93066	93066	110	33.11	222	117800	117800	110	38.92	206	179800	179800	110	53.47	186
	Small/Medium Ping-9	29585	29585	110	24.33	514	34650	34650	110	25.52	460	47150	47150	110	28.46	377
	Small/Medium Ping-10	29887	29887	110	21.1	441	35700	35700	110	22.46	393	20200	50200	110	25.86	322
	Small/Medium Ping-11	31493	31493	110	10.91	217	39900	39900	110	12.89	202	61000	61000	110	17.84	183
	Small/Medium Ping-12	9100	9100	110	2.14	147	11800	11800	110	2.77	147	18400	18400	110	4.31	146
	Small/Medium Ping-13	62200	62200	110	84.36	848	66700	66700	110	85.48	801	78000	78000	110	88.26	707
-																

Table 2.6.3(3) Agricultural Water Demand in Ping Basin (3/3) (Summarized from the 25 Basin Study)

Development Stage			1993				,	1996				2006	2006		
	Project Area (rai)	Irrigated Area (rai)	Inten -sity	Water Demand (MCM)	Spec. Dem. (mm)	Project Area (rai)	Irrigated Area (rai)	Inten -sity	Water Demand (MCM)	Spec. Dem. (mm)	Project Area (rai)	Irrigated Area (rai)	Inten -sity	Water Demand (MCM)	Spec. Dem.
Small/Medium Ping-14	29000	29000	110	7.14	154	37400	37400	110	9.22	154	28600	28600	110	14.44	154
Small/Medium Ping-15	19000	19000	110	26.11	859	20300	20300	110	26.44	814	23600	23600	110	27.25	722
Small/Medium Ping-16	240100	240100	110	174.47	454	287300	287300	110	186.10	405	405300	405300	110	180.67	279
Pump Irrigation	79730	79730	130	217.09	1702	207330	207330	130	568.64	1714	331330	331330	130	95.069	1303
Total (rai)	1736027	1627527		2428.2	930	2207180	2086480		3127.57	930	3185380	3013780		4344.39	900
Total (ha)	277,800	260,400				353,100	333,800				509,700	482,200			
Large/Medium (ha)	-	112,600					137,800					197,100			
Small (ha)		135,000					162,800					232,100			
Pump (ha)		12,800					33,200					53,000			

Table 2.6.4 Staged Development of Irrigated Area in the Wang River Basin

1	`able 2.6.	4 Stage	a Deven	phuent o	1 mingan	d Area ii		, , , , , , , , , , , , , , , , , , ,		
Year	Large Medium	Accumu -lated	Small Scale	Accumu -lated	DEDP Pump	Accumu -lated	Others	Accumu -lated	Total	Accumu -lated
1949	97000	97000	0	0	0	0	0	0	97000	97000
1950-70	0	97000	0	0	0	0	0	0	0	97000
1971	3000	100000	0	0	0	0	0	0	3000	100000
1972	53000	153000	0	0	0	0	0	0	53000	153000
1973-75	0	153000	0	0	0	0	0	0	0	153000
1976	2500	155500	0	0	0	0	0	0	2500	155500
1977	0	155500	1500	1500	0	. 0	0	0	1500	157000
1978	0	155500	8900	10400	0	0	0	0	8900	165900
1979	0	155500	15500	25900	0	0	0	0	15500	181400
1980	0	155500	19800	45700	0	. 0	0	0	19800	201200
1981	0	155500	18800	64500	0	0	0	0	18800	220000
1982	0	155500	13100	77600	0	0	. 0	0	13100	233100
1983	0	155500	16000	93600	11420	11420	4000	4000	31420	264520
1984	2200	157700	13750	107350	2710	14130	0	4000	18660	283180
1985	4000	161700	32200	139550	5010	19140	0	4000	41210	324390
1986	0	161700	39000	178550	6440	25580	0	4000	45440	369830
1987	0	161700	20800	199350	2780	28360	0	4000	23580	393410
1988	0	161700	7800	207150	600	28960	0	4000	8400	401810
1989	0	161700	13850	221000	2300	31260	0	4000	16150	417960
1990	6000	167700	18800	239800	4350	35610	1500	5500	30650	448610
1991	0	167700	5550	245350	7400	43010	1500	7000	14450	463060
1992	3890	171590	10100	255450	2300	45310	0	7000	16290	479350
1993	0	171590	0	255450	5025	50335	0	7000	5025	484375

Table 265 Agri

Development Stage			1993				Ð	1996				1993	2006		
	Project Area (rai)	Irrigated Area (rai)	Inten -sity	Water Demand (MCM)	Spec. Dem. (mm)	Project Area (rai)	Irrigated Area (rai)	Inten -sity	Water Demand (MCM)	Spec. Dem. (mm)	Project Area (rai)	Irrigated Area (rai)	Inten -sity	Water Demand (MCM)	Spec. Dem. (mm)
Kiew Lom Dam	130000	115000	149	296.42	1611	130000	115000	139	275.92	1500	160000	160000	128	288.72	1128
Kiew Kho Mha Dam											27615	27615	130	56.3	1274
Mac Yao Res.	9009	1200	130	3.16	1646	0009	1200	130	3.16	1646	0009	1200	130	3.16	1646
Mac Arb Res.	4000	1400	130	3.68	1643	4000	1400	130	3.68	1643	4000	1400	130	3.68	1643
Mac Prik Res.	3890	1700	130	4.47	1643	3890	1700	130	4.47	1643	3890	1700	130	4.47	1643
Ban Lu Res.											17000	17000	106	30.47	1120
Small/Medium Wang-1	31200	31200	110	7.38	148	41000	41000	110	9.70	148	65400	65400	110	15.47	148
Small/Medium Wang-2	0006	0006	110	2.13	148	11800	11800	110	2.79	148	18900	18900	110	4.47	148
Small/Medium Wang-3	20500	20500	110	4.85	148	26900	26900	110	6.36	148	43000	43000	110	10.17	148
Small/Medium Wang-4	76300	76300	110	18.05	148	100200	100200	110	23.70	148	159900	159900	110	37.82	148
Small/Medium Wang-5	40700	40700	110	8.33	128	51700	\$1700	110	11.73	142	79300	79300	110	25.26	199
Small/Medium Wang-6	19600	19600	110	4.64	148	25700	25700	110	6.08	148	41100	41100	110	9.72	148
Small/Medium Wang-7	65850	65850	110	15.06	143	85800	85800	110	19.77	144	135600	135600	110	31.55	145
Pump Irrigation	45310	45310	130	119.25	1645	63300	63300	130	155.38	1534	110900	110900	130	291.88	1645
Total (rai)	452350	427760		487.42	710	550290	\$25700		522.74	620	872605	863015		813.14	890
Total (ha)	72,400	68,400		= :		88,000	84,100	2.			139,600	138,100			
Large/Medium (ha)		19,100					19,100					33,400			
Small (ha)		42,100	:				54,900					87,000			
Pump (ha)		7,200					10,100					17,700			

Table 2.6.6 Staged Development of Irrigated Area in the Yom River Basin

	a auic 2.0		,				m me it			
Year	Large Medium	Accumu -lated	Small Scale	Accumu -lated	DEDP Pump	Accumu -lated	Others	Accumu -lated	Total	Accumu -lated
1959	12000	12000	0	0	0	0	0	0	12000	12000
1960-69	0	12000	0	0	0	0	0	0	0	12000
1970	15000	27000	0	0	0	0	0	0	15000	27000
1971-72	0	27000	0	0	0	0	0	. 0	. 0	27000
1973	224000	251000	0	: 0	0	0	0	0	224000	251000
1974-76	13500	264500	0	0	0	0	0	0	13500	264500
1977	24000	288500	2500	2500	0	0	350	350	26850	291350
1978	0	288500	9600	12100	0	0	0	350	9600	300950
1979	0	288500	15900	28000	0	0	400	750	16300	317250
1980	0	288500	28510	56510	0	0	4000	4750	32510	349760
1981	0	288500	33420	89930	0	0	1000	5750	34420	384180
1982	0	288500	24400	114330	3820	3820	0	5750	28220	412400
1983	3500	292000	64900	179230	15520	19340	1762	7512	85682	498082
1984	6000	298000	38840	218070	0	19340	0	7512	44840	542922
1985	187500	485500	74600	292670	0	19340	87	7599	262187	805109
1986	0	485500	22100	314770	3690	23030	0	7599	25790	830899
1987	15000	500500	32700	347470	5180	28210	0	7599	52880	883779
1988	15000	515500	43920	391390	1500	29710	1000	8599	61420	945199
1989	0	515500	40700	432090	0	29710	0	8599	40700	985899
1990	0	515500	27200	459290	2000	31710	2175	10774	31375	1017274
1991	129665	645165	17600	476890	6400	38110	1700	12474	155365	1172639
1992	5980	651145	9400	486290	3660	41770	1200	13674	20240	1192879
1993	0	651145	1000	487290	14175	55945	0	13674	15175	1208054

Table 2.6.7(1) Agricultural Water Demand in Yom Basin (1/2) (Summarized from the 25 Basin Study)

		1		•						***		Tom was to the second of the s	, ,		
Development Stage			1993				.*	1996				,,	2006		
	Project Area (rai)	Irrigated Area (rai)	Inten -sity	Water Demand (MCM)	Spec. Dem. (mm)	Project Arca (rai)	Irrigated Arca (rai)	Inten -sity	Water Demand (MCM)	Spec. Dem. (mm)	Project Area (rai)	Irrigated Area (rai)	Inten -sity	Water Demand (MCM)	Spec. Cem.
Kaeng Sua Taeng Dam															
Mac Yom Weir	224000	139000	108	259.97	1169	224000	139000	108	259.97	1169	224000	224000	150	530.52	1480
Mac Kam Pong Res.	2980	4000	143	11.79	1842	5980	4000	143	11.80	1844	5980	4000	143	11.80	1844
Mac Man Res.	14500	8500	122	22.61	1663	14500	8500	122	22.47	1652	14500	8500	122	22.47	1652
Khlong Khang Nai Res.	2000	1200	142	3.54	1844	2000	1000	150	3.06	1913	2000	1000	150	3.06	1913
Mac Song Res.			:			51000	38000	114	74.17	1220	51000	38000	114	74.17	1220
Mac Tang Res.						22000	15000	118	30.21	1259	22000	15000	118	30.21	1259
Huai Mae Song Res.						8000	2700	134	6.07	1405	8000	2700	134	6.07	1405
Huai Ta Pac Res.			15.	,		20000	13500	133	30.21	1399	20000	13500	133	30.21	1399
Mac Mok Res.						23000	31300	132	69.47	1387	53000	31300	132	69.47	1387
Wang Daeng Res.			:								8000	8000	138	18.35	1434
Mae Sai Res.											23000	19000	129	41.24	1357
Huai Suang Res.							`			. :	4500	2000	150	4.93	1541
Mac Khong Kai Res.											7000	3000	130	6.58	1371
Phichit Rubber Weir	59125	59125	150	180.86	1912	59125	59125	150	180.86	1912	59125	59125	150	180.86	1912
												W. C. C. C. C. C. C. C. C. C. C. C. C. C.			

Table 2.6.7(2) Agricultural Water Demand in Yom Basin (2/2) (Summarized from the 25 Basin Study)

Development Stage		1	1993					1996				,	2006		
	Project Area	Irrigated Arca	Inten	Water Demand	Spec.	Project Area	Irrigated Area	Inten	Water	Spec. Dem.	Project Area	Irrigated Area	Inten-sity	Water	Spec. Dem.
	(rai)	(rai)	-any	(MCM)	(mm)	(rai)	(rai)		(MCM)	(mm)	(rai)	(rai)		(MCM)	(mm)
Khlong Kra Jong Reg.					·					·	10000	10000	150	24.61	1538
Add. Irrigation Arca				i i							158800	158800	100	262.1	1032
Small/Medium Yom-1	19060	19060	110	4.73	1.55	24200	24200	110	6.01	155	37200	37200	110	9.24	155
Small/Medium Yom-2	13200	13200	110	8.49	402	15800	15800	110	9.14	362	22400	22400	110	10.78	301
Small/Medium Yom-3	8500	8500	110	2.15	158	10800	10800	110	2.74	159	16600	16600	110	4.12	155
Small/Medium Yom-4	118420	118420	110	65.91	348	143900	143900	110	72.24	314	207600	207600	110	88.06	265
Small/Medium Yom-5	13400	13400	110	8.55	399	16100	16100	011	9.21	358	22800	22800	110	10.88	298
Small/Medium Yom-6	2800	2800	110	0.7	156	3600	3600	110	0.89	155	5500	5500	110	1.37	156
Small/Medium Yom-7	162300	162300	-110	87.9	338	197900	197900	110	88.96	306	287000	287000	110	142.84	311
Small/Medium Yom-8	189800	189800	110	84.24	277	234800	234800	110	95.59	254	347300	347300	110	123.98	223
Small/Medium Yom-9	45310	45310	110	11,44	158	\$7600	87600	110	14.54	158	88300	88300	110	22.28	158
Pump Irrigation	41770	41770	130	106.25	1590	91120	91120	130	200.90	1378	147120	147120	130	334.86	1423
Total (rai)	920165	826385		859.13	650	1255425	1107945		1196.43	670	1852725	1779745		2065.06	730
Total (ha)	147,200	132,200			ÿ	200,900	177,300				296,400	284,800			
Large/Medium (ha)	· 	33,900					49,900					95,700			
Small (ha)		91,600					112,800					165,600			
Pump (ha)	-	6,700					14,600				·	23,500			
												i I			

Table 2.6.8 Staged Development of Irrigated Area in the Nan River Basin

·	TADIC 4.		500000		01 111160	teu Arex	in the m	uu teete	11169CT	
Year	Large Medium	Accumu -lated	Small Scale	Accumu -lated	DEDP Pump	Accumu -lated	Others	Accumu -lated	Total	Accumu -lated
1949-52	8000	8000	0	0	0	0	. 0	0	8000	8000
1953-55	154200	162200	0	0	0	0	0	. 0	154200	162200
1956-60	0	162200	0	0	0	0	. 0	0	0	162200
1961-66	51000	213200	0	0	0	0	. 0	0	51000	213200
1967-69	128000	341200	0	0	0	0	17750	17750	145750	358950
1970-72	30000	371200	0	0	0	0	6400	24150	36400	395350
1973-75	69200	440400	0	. 0	0	0	9030	33180	78230	473580
1976-78	21750	462150	45440	45440	0	0	14860	48040	82050	555630
1979-80	0	462150	65650	111090	14360	14360	4675	52715	84685	640315
1981	7700	469850	27860	138950	17040	31400	6276	58991	58876	699191
1982	0	469850	20550	159500	21440	52840	8300	67291	50290	749481
1983	0	469850	13150	172650	37610	90450	0	67291	50760	800241
1984	6600	476450	29530	202180	43770	134220	1400	68691	81300	881541
1985	572800	1049250	49477	251657	7150	141370	6000	74691	635427	1516968
1986	2030	1051280	38900	290557	6900	148270	2500	77191	50330	1567298
1987	0	1051280	18000	308557	31550	179820	0	77191	49550	1616848
1988	0	1051280	15850	324407	11190	191010	0	77191	27040	1643888
1989	0	1051280	28700	353107	10680	201690	0	77191	39380	1683268
1990	23400	1074680	18950	372057	9350	211040	1000	78191	52700	1735968
1991	6000	1080680	21100	393157	48850	259890	3000	81191	78950	1814918
1992	0	1080680	4200	397357	42710	302600	12700	93891	59610	1874528
1993	0	1080680	0	397357	36415	339015	0	93891	36415	1910943

1718 1178 1629 1617 1646 3054 1432 1458 1629 1250 1629 1551 1629 1084 1609 Spec. Dem. (mu) 6.76 7.82 22.68 2.73 8.94 35.19 46.18 40.16 14.17 18.71 4.61 98.86 40.13 63.53 (MCM) 363.55 15.64 1157.24 Demand 120 130 130.4 130.3 116 124.6 130 130 150 150 130 130 130 150 127.5 210.5 115.7 233.3 Inten -sity Table 2.6.9(1) Agricultural Water Demand in Nan Basin (1/2) (Summarized from the 25 Basin Study) 7230 3430 24500 7500 155890 3000 3380 3000 8700 1100 1750 8220 43160 2000 9009 2200 12800 667100 Irrigated (rai) Arca 467400 23400 15000 28000 37000 3500 3000 11200 1650 10000 11000 1750 8220 43160 10000 0009 667100 7700 Project Arca (rai) 1617 1629 1646 1629 1084 1629 1551 Spec. Dem. 1609 1629 (mm) 7.82 22.68 2.73 8.94 18.71 5.15 4.61 Water Demand (MCM) 15.64 40.13 1157.24 130 130.4 130 210.5 130 120 130.3 127.5 130 130 Inten -sity 7230 8700 1100 3430 1750 2200 3000 2000 0009 667100 Irrigated Area (rai) 11200 10000 11000 1750 7700 23400 3000 1650 9009 667100 Project Arca (rai) 1629 1629 1632 1551 1084 1629 1646 1430 1609 1629 Spec. Dem. (mm) 22.67 2.73 8.94 7.82 18.88 46 15.64 4.21 Demand 1157.24 (MCM) Water 130 130 130 130 130 120 130.3 110 127.5 7230 130,4 Inten -sity 1750 1100 3430 667100 2000 9009 3000 8700 1840 Area Irrigated (rai) 667100 3000 11200 1650 10000 11000 1750 23400 7700 9009 Project Area (rai) Khlong Chomphu Res. Development Stage Huai Nam Klung Res. Ban Thong Noi Weir Ban Nong Nok Weir Phitsanulok Project Khlong Tron Weir Mac Khaning Res. Khlong Iron Res. Nam Samun Weir Khwae Noi Dam Nam Yang Weir Mac Chacy Res. Huai Aom Sinh Huai Head Res. Nam Hang Res. Nam Kon Weir Nam Pua Weir Nam Pat Weir Nam Sa Weir

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Development Stage			1993			:		1996					2006		
	Project	Irrigated	Inten	Water	Spec.	Project	Irrigated	,	Water	Spec.	Project	Irrigated		Water	Spec.
	Area	Area	-sity	Demand	E (Area	Arca	-sity	Demand	Dem.	Area	Area	Inten	Demand	Den.
	(141)	(rai)		(MCM)	(mm)	(raı)	(Tar.)		(MCM)	(mm)	(rai)	(rai)	, 31.5	(MCM)	(mm)
Small/Medium Nan-3	10630	10630	110	2.5	147	13776	13776	110	3.25	147	21641	21641	110	5.11	148
Small/Medium Nan-4	14900	14900	110	3.52	148	19310	19310	110	4.54	147	30334	30334	110	5.62	116
Small/Medium Nan-5	11950	11950	110	2.8	146	15487	15487	110	3.65	147	24328	24328	110	5.74	147
Small/Medium Nan-6	2250	2250	110	0.52	144	2916	2916	110	0.68	146	4581	4581	110	1.09	149
Small/Medium Nan-7	7350	7350	110	1.74	148	9525	9525	110	2.25	148	14963	14963	110	3.53	147
Small/Medium Nan-8	7350	7350	110	1.74	148	9525	9525	110	2.25	148	14963	14963	130	8.76	366
Small/Medium Nan-9	15350	15350	110	6.1	248	19553	19553	110	7.07	226	30059	30059	110	3.53	3
Small/Medium Nan-10	108990	108990	110	169.26	971	121349	121349	110	172.17	887	152247	152247	110	131.71	541
Small/Medium Nan-1.1	200	200	110	0.15	188	648	648	110	90.0	58	1018	1018	110	0.24	147
Small/Medium Nan-12	3000	3000	110	0.71	148	3888	3888	110	0.92	148	6108	6108	110	1.45	148
Small/Medium Nan-13	45200	45200	110	10.71	148	58577	58577	011	13.86	148	92020	92020	110	21.81	148
Small/Medium Nan-14	19150	19150	110	25.13	820	21740	21740	110	25.70	739	28214	28214	110	20.2	1,4
Small/Medium Nan-15	462027	462027	110	611.54	827	522084	522084	110	624.92	748	672228	672228	110	658.39	612
Pump Irrigation	302600	302600	130	780.21	1611	423575	423575	130	1108.90	1636	621575	621575	130	1493.35	1502
Total (rai)	1780637	1739987		2870.8	1,030	2019213	1978923		3262.00	1,030	3123493	2729373		4325.15	066
Total (ha)	284,900	278,400				323,100	316,600				499,800	436,800			
Large/Medium (ha)		112,300					112,400	i				153,800			T
Small (ha)		117,700					136,400					184,000			
Pump (ha)		48,400					67.800					000,66			

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Figure 2.6.1 Staged Development of Irrigated Area

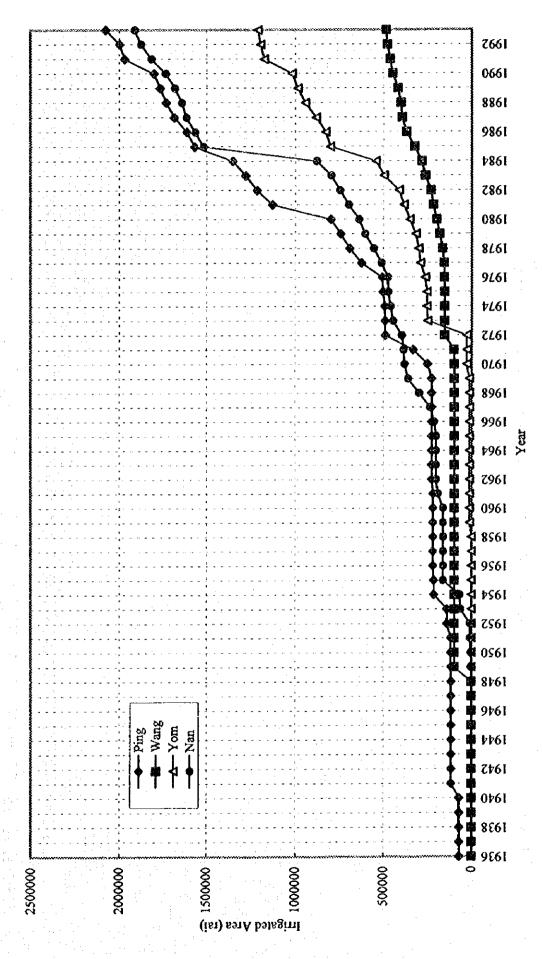
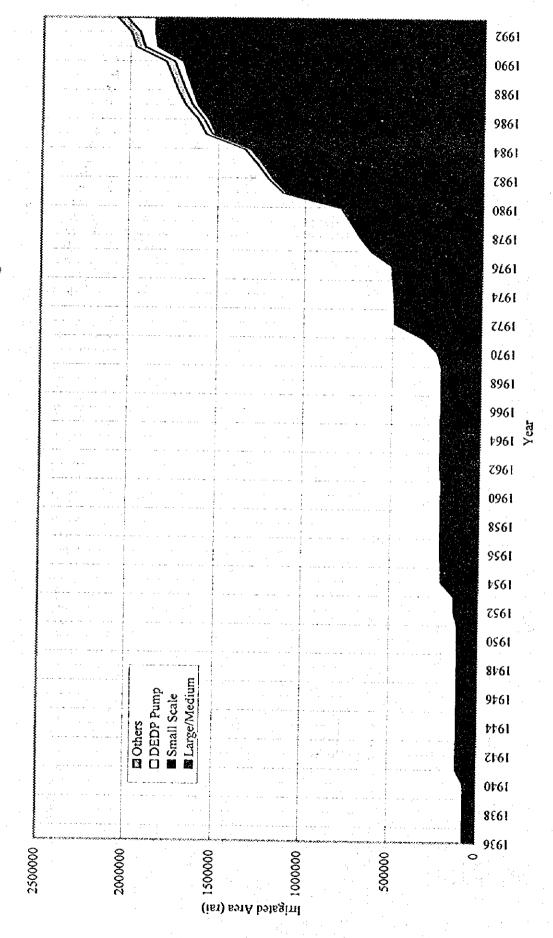


Figure 2.6.2 Staged Development of Irrigated Area in Ping Basin



₱86I Staged Development of Irrigated Area in Wang Basin 8/61 *L*61 ₽**/6**I 7/61 †96I **†\$6**[Figure 2.6.3 9†61 □ DEDP Pump Small Scale **††61** Others

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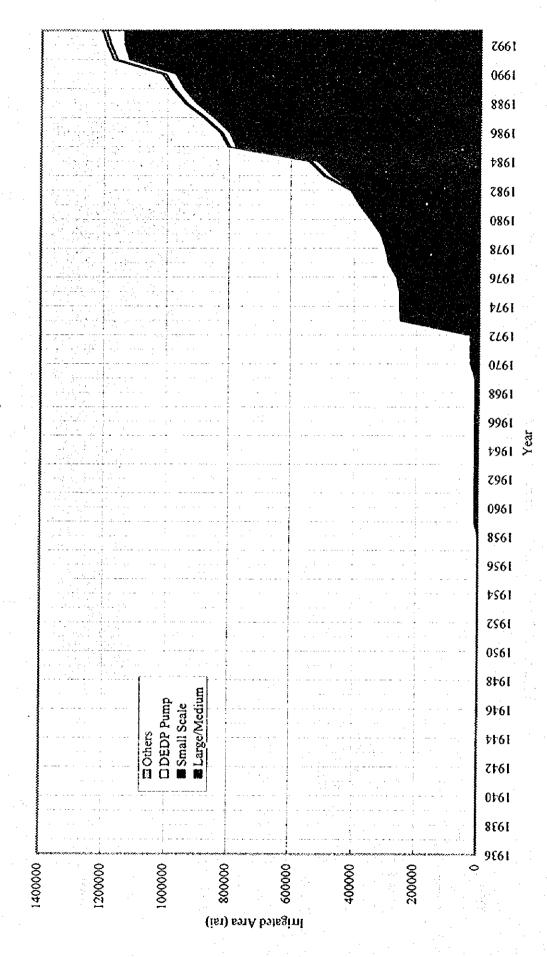


Figure 2.6.5 Staged Development of Irrigated Area in Nan Basin

