TABLES

Table 1 HISTORICAL TREND OF IRRIGATION AREA IN SABAH AND SARAWAK

Year	Sabah			Sarawak		
	Main (10^3 ha)	Off (10^3 ha)	% of Double Cropping	Main (10^3 ha)	Off (10^3 ha)	% of Double Cropping
1967	10.6	-	-	0	0	0
1968	11.5	-	-	0	0	0
1969	12.5	-	-	0.1	0	0
1970	13.7	5.6	40.9	0.1	0	0
1971	14.5	5.9	40.7	1.1	0.3	27.3
1972	14.8	6.5	43.9	1.4	0.5	35.7
1973	14.9	6.5	43.6	1.4	0.5	35.7
1974	15.4	6.6	42.9	3.0	0.5	16.7
1975	17.3	7.6	43.9	3.6	1.1	30.6
1976	17.8	7.9	44.4	4.1	1.5	36.6
1977	18.4	8.3	45.1	5.6	1.5	26.8
1978	19.1	8.9	46.6	5.8	1.6	27.6
1979	19.8	9.4	47.5	6.0	1.6	26.7
1980	20.8	9.9	47.7	6.0	1.6	27.2

Source; DID

Table 2 LIST OF IRRIGATION SCHEMES MAINTAINED BY DID IN 1979 IN SABAH

No.	Name of Scheme	Irri. Area (ha) Main	Irri. Area (ha) Off	Type of Scheme/1	Total Cost ($M\$10^3$) Const./2	Total Cost ($M\$10^3$) O&M
1.	Trusan Sapi	520	520	P	6500	44
2.	Kimorohing	122	122	G	-	-
3.	Lohan	348	121	G	300	47
4.	Narapak	32	0	G	95	9
5.	Merungin	284	81	G	-	-
6.	Pitas Hilir	182	182	P	-	-
7.	Tandek	100	0	P	-	-
8.	Kota Marudu	810	486	G	-	-
9.	Tingkalanun	162	0	G	100	8
10.	Tempasuk North	2590	1052	G	618	182
11.	Tempasuk South	971	486	P	1417	133
12.	Lubok Moyo	182	162	P	230	71
13.	Tambulian	202	121	P	410	65
14.	Tamu Darat	182	121	G	100	27
15.	Jawi-Jawi	182	162	P	400	20
16.	Kelawat	202	40	G	15	7
17.	Tuaran	1336	1012	P	1557	188
18.	Penampang	1215	567	P	1751	28
19.	Libaan Langkuas	80	0	G	-	-
20.	Pengalat	240	0	P	-	-
21.	Papar	2419	2025	P	1763	294
22.	Langkawit	60	60	P	-	-
23.	Limbawang	121	81	P	219	24
24.	Lumut	24	0	P	9	6
25.	Tomani	240	40	G	20	20
26.	Trans Pegalan	81	41	G	241	-
27.	Bingkor	1985	770	G	834	170
28.	Apin Apin	324	122	G	370	68
29.	Biah	40	40	G	40	13
30.	Tulid	49	0	G	80	15
31.	Pulaimanang	81	81	P	101	44
32.	Tunggul Tinggi	324	162	P	800	33
33.	Sindumin	811	405	P	2596	39
34.	Minor Irrigation Areas	2744	824	G	-	-
	Total	19245	9886			

Remarks; /1: G = Gravity
P = Pumping
C = Control Drainage
I = Inundation

/2: Total construction cost as on 31.12.1976

Table 3 CLASSIFICATION OF IRRIGATION SCHEMES BY AREA

Size of Scheme	Sabah		Sarawak	
	Area	Number	Area	Number
	(ha)	(nos.)	(ha)	(nos.)
Smaller than 100 ha	3,151	6+ /1	445	6
101 - 500 ha	3,295	15	4,172	20
501 - 1000 ha	3,400	4	809	1
1001 - 5000 ha	10,874	6	1,214	1
Total	20,720	31+ /1	6,640	28

Remarks; /1 : Number of schemes classified as "Minor irrigation areas" in the list of irrigation schemes maintained by DID is not known.

Table 4 CLASSIFICATION OF IRRIGATION SCHEMES BY TYPE

Type of Scheme	Sabah		Sarawak	
	Area	Number	Area	Number
	(ha)	(nos.)	(ha)	(nos.)
Gravity	11,030	16+ /1	120	1
Pumping	9,690	15	2,060	10
Control Drainage	0	0	4,460	17
Total	20,720	31+ /1	6,640	28

Remarks; /1 : Number of schemes classified as "Minor irrigation areas" in the list of irrigation schemes maintained by DID is not known.

Table 5 CANAL DENSITY OF EXISTING/UNDER CONSTRUCTION SCHEMES IN SABAH

Name of Scheme	Type of Scheme	Irrigation Area (ha)	Canal Density (m/ha)
Pitas Hilir	P	450	43
Timbang Batu	P	364	25
Kota Marudu	G	810	16
Tempasuk	G/P	3806	11
Lubok Moyo	P	182	18
Tambulian	P	202	21
Tamu Darat	G	182	42
Tuaran	P	1340	16
Penampang	P	1619	7
Papar	P	2429	11
Membakut	P	1174	17
Limbawang	P	121	17
Pulaimanang	G	81	21
Tunggul Tinggi	P	324	29
Sindumin	P	810	24
Tomani	G	210	28
Transpegalan	G	810	2
Bingkor	G	2000	11
Apin Apin	G	769	6
Kimolohing	G	810	10
Lohan	G/P	202	20
Narapak	G	32	53
Merungin	G	283	17
Trusan Sapi	P	520	30
Total/Average		19530	14

Remarks; G = Gravity irrigation scheme
P = Pumping irrigation scheme

Table 6 ESTIMATED AREA OF IRRIGATED PADDY FIELD IN SABAH

Unit: ha

Basin			1980		1990		2000	
No.	Name	Scheme	Main Season	Off Season	Main Season	Off Season	Main Season	Off Season
201-212	Tawau+	-	-	-	-	-	-	-
213	Labuk	Major/1	-	-	-	-	5830	3000
		Minor	2172	642	2510	690	730	120
214	Sugut	Minor	1068	324	1068	324	1068	324
215	Paitan	-	-	-	-	-	-	-
216	Bengkoka	Minor	238	199	766	617	1256	617
217	Bongan	Minor	1337	568	3406	2219	3406	2219
218	Kadamaian	Minor	5442	2423	6115	3108	6370	3581
219	Tuaran	Minor	1984	1206	1984	1206	1984	1206
220	Putatan	Minor	1419	628	1822	871	1822	871
221	Papar	Minor	2739	2055	3223	2539	3223	2539
222	Kimanis	Minor	60	60	2410	1610	2410	1610
223	Membakut	Minor	145	81	1319	667	1319	667
224	Padas	Minor	2962	1086	6563	2061	8718	2298
225	Labuan	-	-	-	-	-	-	-
226	Lakutan	Minor	1214	648	1214	648	1214	648
	Total		20780	9920	32400	16560	39350	19700

Remarks; /1: Lower Labuk Project. The Trusan Sapi Scheme of 1,780 ha will be incorporated into this project by 2000.

Table 7 LIST OF IRRIGATION SCHEMES MAINTAINED BY DID IN 1979 IN SARAWAK

No.	Name of Scheme	Irri. Area (ha) Main	Irri. Area (ha) Off	Type of Scheme/1	Total Cost ($M\$10^3$) Const./2	Total Cost ($M\$10^3$) O&M
1.	Tg. Purun	194	194	P	298	36
2.	Ng. Merit	150	150	P	599	19
3.	Paya Selanyau I	121	121	G	297	10
4.	Paya Selanyau II	425	425	P	1478	38
5.	Pandaruan	219	219	P	500	22
6.	Mid Sadong I	121	0	C	449	33
7.	Mid Sadong II	85	0	C	386	28
8.	Mid Sadong III	91	0	C	329	21
9.	Tg. Bijat	1214	0	C	904	70
10.	Lubok Nibong	231	0	C	116	18
11.	Sekrang Scheme	109	0	C	102	6
12.	Tg. Seduru	227	0	C	96	9
13.	Loba Balu	202	0	C	296	40
14.	Pujut Lopeng	128	0	C	539	37
15.	Banting	344	344	P	1579	80
16.	Bungai Mumon	202	0	C	330	21
17.	Tg. Sebakut	304	0	C	386	27
18.	Paloh Bangau	1052	0	C	994	37
19.	Benawa	162	162	P	715	27
20.	Paya Payang	61	20	P	33	7
21.	Daro Pilot	121	0	C	333	17
22.	Bako	259	0	C	807	18
	Total	6022	1635		11566	621

Remarks; /1: G = Gravity
P = Pumping
C = Control Drainage
I = Inundation

/2: Total construction cost as on 31.12.1979

Table 8 CANAL DENSITY OF EXISTING/UNDER CONSTRUCTION SCHEMES IN SARAWAK

Name of Scheme	Type of Scheme	Irrigation Area (ha)	Canal Density (m/ha)
Paya Selanyau II	P	425	71
Nanga Merit	P	150	16
Banting	P	344	56
Benawa	P	162	22
Merapok	P	308	51
Sadong Krang Phase 1 (Sg. Kuala Area)	C/D	514	26
Sibu (Sg. Sunga)	P	324	52
Leba'an Bawang Assan	C/D	688	51
Kali Kaba	C/D	789	17
Entebu Kupang	C/D	648	9
Tanjung Purun	P	194	13
Lubok Nibong	C/D	231	13
Tanjung Bijat	C/D	1214	7
Paya Selanyau I	G/P	121	-
Pandaruan	P	219	34
Paya Payang	C/D	61	15
Skrang	C/D	109	-
Tanjung Seduru	C/D	219	22
Tanjung Sebakut	C/D	324	16
Daro Pilot	C/D	121	21
Bako	C/D	259	12
Paloh Bangau	C/D	1072	-
Midsadong I	C/D	121	32
Midsadong II	C/D	89	79
Midsadong III	C/D	89	-
Loba Balu	C/D	202	80
Bungai Mummon	C/D	202	40
Pujut Lopeng	C/D	425	25
Total/Average		9624	25

Remarks; G = Gravity irrigation scheme
P = Pumping irrigation scheme
C/D = Control drainage scheme

Table 9 ESTIMATED AREA OF IRRIGATED PADDY FIELD IN SARAWAK

Unit: ha

Basin			1980			1990			2000		
			Positive			Positive			Positive		
No.	Name	Scheme	Main	Off	C/D	Main	Off	C/D	Main	Off	C/D
227	Lawas	Minor	-	-	-	408	408	-	408	408	-
228	Trusan	Minor	-	-	-	540	540	-	1429	1429	189
229	Limbang	Major/1	-	-	-	3100	3100	-	8600	8600	-
		Minor	219	219	-	323	323	-	323	323	-
230	Basam	Minor	162	162	-	1414	1414	-	3883	3883	-
231	Miri	Minor	-	-	128	108	108	128	108	108	128
232	Sibuti	Minor	546	546	202	546	546	394	546	546	778
233	Niah	Minor	-	-	-	-	-	-	-	-	-
234	Buai	Minor	-	-	-	-	-	-	-	-	-
235	Similajau	Minor	-	-	-	-	-	-	-	-	-
236	Kemena	Minor	-	-	109	962	962	109	2666	2666	328
237	Tatau	Minor	-	-	-	182	182	-	182	182	-
238	Balingian	Minor	-	-	-	-	-	-	257	257	-
239	Mukah	Minor	-	-	-	418	418	-	418	418	728
240	Oya	Minor	-	-	-	266	266	-	532	532	304
241	Rajang	Major/2	-	-	-	-	-	-	4000	2000	-
		Minor	150	150	1379	970	970	5189	1641	1641	6150
242	Kerian	Minor	-	-	231	-	-	2069	-	-	3032
243	Saribas	Minor	-	-	304	126	126	817	126	126	2096
244	Lupar	Major/3	-	-	-	-	-	-	4000	2000	-
		Minor	349	349	1441	1321	1221	2738	3240	3140	3911
245	Sadong	Major/4	-	-	-	1800	1000	-	4000	2000	-
		Minor	60	20	297	518	518	297	1432	1432	297
246	Sarawak	Major/5	-	-	-	3000	1600	1500	6000	1600	6000
		Minor	-	-	259	707	707	259	2123	2123	259
247	Kayan	Minor	194	194	-	491	491	-	1086	1086	-
	Total		1680	1640	4350	17200	14900	13500	47000	36500	24200

Remarks; Positive : Positive irrigation scheme (Gravity or Pumping)

C/D : Control drainage scheme

/1 : Limbang Valley Project

/2 : Binatang Barat Project

/3 : Batang Lupor Project

/4 : Sadong Krang Project

/5 : Samarahan River Basin Development Project

Table 10 ZONING FOR CALCULATION OF IRRIGATION WATER DEMAND

Zone No.	Basin No.	Rainfall Station Name	Rainfall Station No.	Evaporation Station Name	Evaporation Station No.
Sabah					
SB 1	201-210	Mostyn Estate	4681001	Tawau	4278303
SB 2	211	Kuamut	5274201	Kuamut	5274301
SB 3	212-215/1	Pamol Estate	5974001	Penimbanan	5873301
SB 4	213, 214/1	Ranau	5967001	Kundasang	5965301
SB 5	201, 224/2	Keningau	5361001	Keningau	5361302
SB 6	216-220	Kota Kinabalu	5960001	Kota Kinabalu	5960302
SB 7	221-226/2	Mawao Estate	5457002	Kaiduan	5760301
Sarawak					
SW 1	227-229	Ukong	4548004	Pandaruan	4650323
SW 2	230-233	Miri	4339005	Miri Airport	4339205
SW 3	234-238	Bintulu	3130002	Bintulu Airport	3130202
SW 4	239-241	Sibu Airport	2318007	Sibu Airport	2318207
SW 5	242-244	Simanggang	1214001	Simanggang	1214301
SW 6	245-247	Kuching Airport	1403001	Kuching Airport	1403201

Remarks; /1: Area of the West Coast Residency in the Basins 13 and 14 is identified as Zone SB 4.

/2: Area of the West Coast Residency in the Basin 24 is incorporated in Zone SB 6.

Table 11 AVERAGE MONTHLY RAINFALL AND EVAPORATION IN SABAH

Unit: mm

Zone No.	Station Name	Station No.	No. of Years	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
	Rainfall															
SB 1	Mostyn Estate	4681001	20	188	129	146	198	235	213	163	186	192	220	190	177	2237
SB 2	Kuamut	5274201	20	424	283	234	137	197	207	208	213	243	235	291	343	3015
SB 3	Pamol Estate	5974001	20	541	487	262	158	252	268	242	269	268	321	328	455	3851
SB 4	Ranan	5967001	20	272	213	163	145	204	198	160	190	180	195	175	224	2319
SB 5	Keningau	5361001	20	145	134	140	115	182	132	127	122	125	143	154	151	1670
SB 6	Kota Kinabalu	5960001	20	143	68	73	99	204	306	260	239	294	349	282	242	2559
SB 7	Mawao Estate	5457002	20	258	170	170	244	384	319	318	293	360	368	394	300	3578
	Evaporation /1															
SB 1	Tawau	4278303	11	115	109	129	124	126	117	122	125	124	132	117	111	1451
SB 2	Kuamut	5274301	11	111	110	128	139	144	128	132	131	130	137	122	119	1531
SB 3	Penimbanan	5873301	11	109	108	131	147	161	139	141	145	139	139	120	113	1593
SB 4	Kundasang	5965301	9	102	100	125	125	127	121	137	133	135	133	112	108	1459
SB 5	Keningau	5361302	11	133	130	150	159	152	139	145	147	148	146	135	129	1714
SB 6	Kota Kinabalu	5960302	11	148	145	175	179	177	165	167	167	156	162	145	148	1933
SB 7	Kaiduan	5760301	11	131	119	140	135	139	137	140	140	131	130	126	126	1593

Remarks; /1 : Pan evaporation

Table 12 AVERAGE MONTHLY RAINFALL AND EVAPORATION IN SARAWAK

Unit: mm

Zone No.	Station Name	Station No.	No.of Years	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
	Rainfall															
SW 1	Ukong	4548004	20	416	266	283	309	305	267	250	263	313	388	423	412	3895
SW 2	Miri	4339005	20	342	157	156	179	175	225	202	210	233	303	342	332	2856
SW 3	Bintulu	3130002	20	445	266	278	255	229	278	272	290	284	307	411	426	3741
SW 4	Sibu Airport	2318007	20	377	278	300	257	204	183	167	201	282	256	283	397	3185
SW 5	Simanggang DID	1214001	20	352	260	285	281	248	215	192	247	250	283	319	431	3363
SW 6	Kuching Airport	1403001	20	677	600	356	276	252	215	194	237	254	345	346	465	4217
	Evaporation															
SW 1	Pandaruan	4650323	7	108	110	138	138	139	125	129	132	122	119	114	115	1489
SW 2	Miri Airport	4339205	14	122	125	145	152	153	145	152	154	148	146	130	125	1697
SW 3	Bintulu Airport	3130202	14	122	120	143	143	146	136	138	142	136	132	125	125	1608
SW 4	Sibu Airport	2318207	14	106	104	124	122	127	124	127	126	124	126	115	109	1434
SW 5	Simanggang	1214301	16	132	127	139	141	136	130	131	136	136	147	126	130	1611
SW 6	Kuching Airport	1403201	14	108	105	126	126	140	129	135	136	125	129	115	112	1486

Table 13 MONTHLY RAINFALL IN ZONE SB 1

Station: Mostyn Estate (No. 4681001)

Unit: mm

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total
1960	150	178	304	129	251	275	207	65	302	114	177	277	2429
1961	87	86	182	170	214	265	90	81	152	174	57	128	1686
1962	395	96	186	161	357	217	129	197	281	177	191	248	2635
1963	549	274	115	80	238	158	72	341	132	242	174	274	2649
1964	157	135	104	208	229	139	142	87	170	436	219	114	2140
1965	207	104	192	204	178	258	183	189	246	180	245	226	2412
1966	147	118	160	150	182	159	215	226	151	325	206	156	2195
1967	254	33	224	211	305	256	177	149	182	185	198	117	2291
1968	386	13	131	214	94	103	155	209	191	180	174	148	1998
1969	135	31	97	233	211	226	126	192	207	155	176	229	2018
1970	120	111	203	263	290	158	214	199	183	218	234	273	2466
1971	208	276	55	107	316	298	111	337	116	90	250	199	2363
1972	141	132	114	258	286	243	111	162	297	206	68	93	2111
1973	14	7	139	186	322	242	188	269	276	244	229	227	2343
1974	54	329	149	241	159	145	142	113	187	290	228	89	2126
1975	188	93	166	214	265	305	218	161	263	290	310	188	2661
1976	141	33	61	203	212	284	187	275	80	226	130	167	1999
1977	255	427	99	317	274	148	287	155	94	250	102	105	2513
1978	146	17	113	166	260	181	142	179	151	232	270	123	1980
1979	20	83	120	246	61	190	168	130	175	189	155	160	1697
Average	188	129	146	198	235	213	163	186	192	220	190	177	2237
Maximum	549	427	304	317	322	305	287	341	302	436	310	277	2649
Minimum	14	7	55	80	62	103	72	65	80	90	57	89	1686

Table 14 MONTHLY RAINFALL IN ZONE SB 2

Station: Kuamut (No. 5274201)

Unit: mm

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total
1960	656	264	25	183	267	103	81	170	253	111	226	293	2632
1961	383	167	36	35	312	220	244	305	140	329	188	381	2740
1962	848	288	245	95	174	318	330	191	430	146	144	404	3613
1963	887	501	220	13	47	180	324	174	335	310	204	237	3432
1964	191	278	224	179	151	96	62	317	174	97	154	384	2307
1965	469	284	453	104	157	206	153	104	458	288	341	452	3469
1966	253	93	158	35	293	287	247	170	194	218	299	131	2378
1967	634	364	156	140	140	135	203	75	154	132	719	633	3485
1968	851	125	121	94	80	54	73	272	195	285	234	548	2932
1969	112	72	80	28	94	232	191	201	246	187	328	326	2097
1970	388	308	187	199	138	261	186	194	274	387	282	298	3102
1971	399	628	165	60	280	447	224	315	116	224	393	368	3619
1972	313	244	301	182	389	167	188	301	410	292	274	208	3269
1973	142	56	172	326	197	212	218	144	371	297	262	294	2691
1974	188	610	159	325	251	178	207	254	127	191	289	206	2985
1975	257	262	1352	163	72	145	251	215	240	265	143	385	3750
1976	554	178	137	211	227	71	157	299	201	210	369	268	2882
1977	298	591	208	26	249	241	321	286	126	298	246	279	3169
1978	315	173	70	120	238	274	266	161	239	194	245	306	2601
1979	341	180	209	231	174	314	237	111	167	238	480	456	3138
Average	424	283	234	137	197	207	208	213	243	235	291	343	3015
Maximum	887	628	1352	326	389	447	330	317	430	387	719	633	3619
Minimum	112	56	25	13	47	54	62	75	116	97	143	131	2097

Table 15 MONTHLY RAINFALL IN ZONE SB 3

Station: Pamol Estate (No. 5974001)

Unit: mm

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total
1960	642	347	81	141	291	62	212	91	236	388	364	381	3236
1961	361	290	194	55	533	149	237	224	289	326	159	465	3282
1962	924	395	520	341	161	336	207	212	571	240	279	681	4867
1963	1366	509	410	74	167	314	405	285	254	360	143	262	4549
1964	176	419	201	220	129	358	90	315	237	206	162	309	2822
1965	349	529	520	196	443	456	238	384	451	245	316	266	4393
1966	416	300	173	75	307	173	203	325	271	175	129	209	2756
1967	724	413	257	81	230	376	195	183	191	276	515	476	3917
1968	752	137	67	24	221	114	186	184	80	206	132	365	2468
1969	229	263	131	54	102	488	199	218	284	288	270	364	2890
1970	405	157	186	207	296	360	285	363	136	259	362	388	3404
1971	503	2091	135	29	209	188	24	327	313	334	385	392	4930
1972	366	301	450	62	238	106	261	374	219	254	219	156	3006
1973	126	12	140	220	91	187	148	183	363	368	166	273	2277
1974	243	793	157	194	285	87	237	172	53	271	329	431	3252
1975	446	250	255	165	474	342	409	461	228	213	334	316	3893
1976	611	474	248	56	85	74	181	80	100	159	237	798	3103
1977	540	1385	109	49	210	127	217	1	390	239	171	332	3770
1978	1096	279	226	252	177	375	32	453	184	691	1217	1758	6740
1979	542	389	780	672	399	679	881	549	501	926	666	472	7456
Average	541	487	262	158	252	268	242	269	268	321	328	455	3851
Maximum	1366	2091	780	672	533	679	881	549	571	926	1217	1758	7456
Minimum	126	12	67	29	85	62	82	1	53	159	132	156	2277

Table 16 MONTHLY RAINFALL IN ZONE SB 4

Station: Ranau (No. 5967001)

Unit: mm

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total
1960	170	109	165	86	239	161	126	129	200	134	167	241	1927
1961	168	145	132	161	251	203	177	148	256	142	168	290	2241
1962	430	120	259	163	345	277	51	193	162	151	49	421	2621
1963	745	306	217	104	250	74	303	161	109	259	144	143	2815
1964	115	225	249	227	85	258	289	149	189	180	165	156	2287
1965	169	269	294	209	175	90	40	144	194	215	159	218	2176
1966	264	124	172	11	135	298	162	209	299	323	169	103	2369
1967	399	289	203	129	226	119	175	63	105	178	193	169	2248
1968	265	68	224	205	192	255	207	201	145	271	42	312	2387
1969	155	88	157	124	205	249	137	361	76	195	175	221	2143
1970	270	26	109	191	227	244	257	263	178	171	245	277	2458
1971	224	498	112	32	90	149	104	305	174	218	256	147	2309
1972	87	101	233	109	188	111	73	212	332	132	200	107	1885
1973	76	36	29	231	245	209	153	217	360	123	305	610	2594
1974	724	793	91	176	284	217	174	145	132	90	80	234	3140
1975	374	159	171	80	296	190	257	324	209	227	204	196	2687
1976	279	72	121	117	58	97	84	196	56	252	214	160	1706
1977	237	615	71	127	200	290	101	264	70	254	213	127	2569
1978	185	122	83	227	185	288	140	72	170	170	96	269	2007
1979	101	89	170	89	196	177	192	44	181	221	265	81	1806
Average	272	213	163	145	204	198	160	190	180	195	175	224	2319
Maximum	745	793	294	231	345	298	303	361	360	323	305	610	3140
Minimum	76	26	29	32	58	74	40	44	56	90	42	81	1706

Table 17 MONTHLY RAINFALL IN ZONE SB 5

Station: Keningau (No. 5361001)

Unit: mm

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total
1960	103	133	63	58	173	83	183	55	116	141	325	91	1524
1961	83	173	120	68	112	143	139	48	53	178	95	212	1424
1962	327	157	107	264	263	201	29	248	101	55	110	243	2105
1963	372	170	145	43	191	32	100	33	65	55	128	162	1496
1964	26	288	228	156	218	174	218	19	141	147	142	139	1896
1965	114	57	270	114	214	81	37	224	115	203	137	132	1698
1966	50	41	182	115	106	137	188	116	112	175	50	174	1446
1967	226	133	137	39	125	93	103	52	160	129	126	152	1475
1968	196	60	150	190	245	155	184	86	126	274	106	117	1889
1969	126	67	174	47	184	160	86	235	13	82	158	149	1481
1970	152	45	140	119	251	134	74	101	130	210	163	164	1683
1971	117	401	57	81	128	68	69	400	63	197	345	198	2124
1972	150	109	150	254	111	163	50	120	63	47	134	39	1390
1973	27	3	95	165	172	199	119	142	394	80	166	136	1698
1974	105	234	110	151	194	148	84	118	253	133	137	137	1804
1975	175	135	116	54	321	134	129	128	148	64	115	245	1764
1976	156	47	144	55	74	81	204	118	34	203	161	64	1341
1977	189	236	142	144	193	204	186	112	40	136	181	163	1926
1978	103	104	19	113	206	98	176	19	212	125	87	131	1393
1979	93	78	253	64	168	160	173	71	164	234	22	163	1843
Average	145	134	140	115	182	132	127	122	125	143	154	151	1670
Maximum	372	401	270	264	321	204	218	400	394	274	325	245	2124
Minimum	26	3	19	43	74	32	29	19	13	47	22	39	1341

Table 18 MONTHLY RAINFALL IN ZONE SB 6

Station: Kota Kinabalu (No. 5960001) Unit: mm

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total
1960	101	87	120	76	243	263	343	111	659	295	305	45	2648
1961	39	49	248	242	100	312	186	244	406	328	141	173	2468
1962	194	30	134	156	223	330	247	371	338	173	331	304	2931
1963	703	81	26	19	112	206	357	296	177	422	175	422	2996
1964	5	15	22	114	259	246	273	168	232	319	379	130	2162
1965	124	100	141	35	270	122	201	261	160	229	88	171	1902
1966	90	71	67	309	161	393	266	339	180	393	323	356	2948
1967	257	93	118	156	248	294	320	133	260	554	185	83	2701
1968	93	12	53	80	233	218	240	188	197	350	211	122	1997
1969	33	53	149	15	313	289	350	427	289	128	488	333	2867
1970	78	12	9	99	315	312	149	251	279	678	198	190	2570
1971	68	72	9	36	398	289	231	274	370	436	322	467	2972
1972	170	39	19	32	156	200	254	216	278	31	225	175	1795
1973	7	1	12	264	201	410	390	231	439	274	465	466	3160
1974	195	277	84	67	72	241	120	179	325	525	242	141	2468
1975	93	93	99	12	167	315	210	274	422	317	252	453	2707
1976	230	41	13	31	231	272	192	378	194	214	268	282	2346
1977	314	191	34	48	42	524	168	130	109	399	191	314	2464
1978	50	24	25	83	184	270	105	196	236	302	395	146	2016
1979	10	22	80	99	153	607	593	121	321	610	461	63	3140
Average	143	68	73	99	204	306	260	239	294	349	282	242	2559
Maximum	703	277	248	309	398	607	593	427	659	678	488	467	3140
Minimum	5	1	9	12	42	122	105	111	109	31	88	45	1795

Table 19 MONTHLY RAINFALL IN ZONE SB 7

Station: Mawao Estate (No. 5457002) Unit: mm

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total
1960	200	164	105	226	446	473	587	247	978	285	559	193	4463
1961	149	155	209	347	271	621	388	269	229	430	305	469	3842
1962	447	113	162	504	374	226	97	584	265	281	399	462	3914
1963	938	120	258	169	424	250	261	364	358	565	158	218	4083
1964	1	52	228	322	592	489	670	217	445	207	672	220	4115
1965	662	302	445	304	516	273	176	406	360	523	287	267	4521
1966	138	68	209	397	280	507	454	513	263	601	519	596	4545
1967	367	230	208	322	595	313	210	189	332	398	688	101	3953
1968	132	285	254	100	435	136	290	360	356	517	156	307	3328
1969	96	207	230	213	781	498	630	504	132	475	629	347	4742
1970	314	21	145	432	476	362	317	402	735	695	502	407	4808
1971	172	254	56	185	403	228	467	417	562	582	420	707	4453
1972	529	281	237	118	310	216	183	328	194	211	191	114	2912
1973	24	6	78	488	408	367	443	275	567	193	317	243	3409
1974	176	103	54	15	37	97	129	95	308	343	158	154	1669
1975	89	122	128	127	445	288	385	87	535	149	636	488	3479
1976	167	137	135	69	193	185	149	323	60	232	147	269	2066
1977	500	536	50	4	69	214	72	12	30	166	481	263	2397
1978	19	70	123	327	427	439	272	219	336	338	390	72	3032
1979	43	170	94	216	191	190	188	49	148	167	269	110	1835
Average	258	170	170	244	384	319	318	293	360	368	394	300	3578
Maximum	938	536	445	397	595	621	670	584	978	695	688	707	4808
Minimum	1	6	50	4	37	97	72	12	30	149	147	72	1669

Table 20 MONTHLY RAINFALL IN ZONE SW 1

Station: Ukong (No. 4548004) Unit: mm

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total
1960	212	463	96	335	265	186	369	197	306	265	438	339	3471
1961	163	301	219	238	176	204	212	108	194	256	249	442	2762
1962	674	86	463	466	414	232	114	328	221	198	340	372	3908
1963	1063	465	314	36	36	114	178	307	223	339	330	298	3703
1964	189	183	227	534	304	275	656	164	513	412	573	346	4376
1965	443	343	508	482	508	138	108	224	190	466	477	477	4364
1966	255	154	288	319	149	209	208	431	154	395	467	774	3803
1967	410	475	217	294	259	346	190	88	375	603	405	539	4201
1968	535	343	539	453	471	498	377	304	349	625	216	441	5151
1969	250	342	225	157	355	253	223	431	110	558	434	289	3727
1970	447	120	347	224	387	240	152	204	322	358	433	356	3590
1971	241	390	176	113	245	139	77	469	423	529	384	424	3610
1972	610	210	277	591	180	227	74	118	244	368	673	231	3803
1973	47	72	286	632	372	509	330	602	602	308	339	579	4678
1974	503	486	255	326	281	203	358	324	675	274	347	363	4395
1975	692	147	194	161	486	277	327	202	423	277	385	452	4023
1976	534	293	160	193	295	204	133	221	65	502	341	326	3267
1977	430	119	436	206	309	371	211	123	135	356	626	347	3669
1978	576	93	190	180	471	295	339	177	281	227	354	350	3533
1979	55	235	236	241	145	410	362	241	450	435	640	390	3840
Average	416	266	283	309	305	267	250	263	313	388	423	412	3895
Maximum	1063	486	508	632	508	509	369	602	675	625	673	774	4678
Minimum	47	72	96	36	36	114	74	88	65	198	216	231	2762

Table 21 MONTHLY RAINFALL IN ZONE SW 2

Station: Miri (No. 4339005)

Unit: mm

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total
1960	149	313	134	111	186	233	255	42	420	201	442	205	2691
1961	138	181	87	195	132	383	207	183	155	245	53	315	2274
1962	473	22	216	134	265	284	48	252	350	378	509	429	3360
1963	1734	198	182	5	173	88	277	112	138	122	163	233	3425
1964	247	37	93	201	193	147	416	417	235	252	528	272	3038
1965	624	245	298	259	187	216	126	129	132	169	304	392	3181
1966	143	116	293	354	50	176	319	345	155	289	388	595	3223
1967	396	177	239	179	210	243	191	204	181	174	291	371	2856
1968	217	120	172	152	134	269	265	263	179	284	212	248	2515
1969	107	75	46	194	375	157	196	279	183	483	678	316	3089
1970	312	124	99	330	175	223	272	317	258	499	326	231	3166
1971	325	221	43	169	125	72	268	364	141	460	310	483	2981
1972	341	154	143	125	107	251	86	46	363	189	295	170	2270
1973	7	21	176	398	185	294	251	168	307	337	455	624	3223
1974	350	266	110	97	275	267	87	167	370	292	307	371	2979
1975	245	138	148	56	145	207	186	161	376	307	267	311	2547
1976	435	157	61	150	102	164	37	297	75	196	167	280	2121
1977	406	379	154	138	94	163	227	177	135	336	390	329	2928
1978	137	117	242	107	366	255	158	118	233	303	346	264	2646
1979	47	73	183	226	27	407	177	163	277	438	417	204	2639
Average	342	157	156	179	175	225	202	210	233	303	342	332	2856
Maximum	1734	379	298	398	375	407	416	364	420	499	678	624	3425
Minimum	7	21	43	5	27	72	37	42	75	122	53	170	2121

Table 22 MONTHLY RAINFALL IN ZONE SW 3

Station: Bintulu (No. 3130002)

Unit: mm

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total
1960	376	204	153	267	260	315	404	106	278	239	453	511	3566
1961	315	304	223	340	164	210	171	268	216	449	449	538	3647
1962	562	126	517	258	172	310	216	416	210	243	565	352	3947
1963	1265	313	183	197	257	228	213	370	294	181	486	403	4390
1964	298	118	161	389	317	145	440	171	257	359	568	46	3269
1965	406	241	284	121	195	119	121	118	234	352	246	386	2823
1966	370	433	220	283	59	453	300	621	246	395	374	412	4166
1967	672	140	351	380	293	292	339	235	223	212	541	363	4041
1968	359	211	171	189	291	248	274	373	173	262	111	595	3257
1969	223	199	445	275	405	154	101	527	117	520	451	626	4043
1970	267	134	333	457	467	416	464	201	388	285	432	360	4204
1971	566	802	105	141	225	149	141	501	271	315	496	590	4302
1972	521	241	104	95	139	166	241	217	328	138	507	351	3048
1973	125	155	473	382	231	526	353	285	453	229	250	531	3993
1974	296	287	117	306	173	351	249	217	464	372	496	361	3689
1975	515	218	278	348	115	245	403	345	355	308	377	572	4079
1976	627	202	381	148	192	180	292	291	225	341	327	349	3555
1977	646	762	479	73	128	182	128	272	233	227	403	318	3851
1978	324	86	317	262	409	263	252	103	377	392	377	475	3637
1979	163	152	262	190	78	612	338	157	335	326	319	380	3312
Average	445	266	278	255	229	278	272	290	284	307	411	426	3741
Maximum	1265	762	517	382	467	612	464	521	464	520	541	590	4390
Minimum	125	86	104	73	59	119	101	103	117	138	111	46	2823

Table 23 MONTHLY RAINFALL IN ZONE SW 4

Station: Sibu Airport (No. 2318007)

Unit: mm

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total
1960	464	179	324	290	130	152	197	173	282	165	222	588	3166
1961	340	326	269	265	187	163	155	41	391	160	380	468	3145
1962	421	249	384	166	-	227	142	144	284	203	338	319	-
1963	596	379	246	97	239	64	261	86	255	202	306	305	3036
1964	298	478	158	511	238	168	360	154	244	213	366	387	3575
1965	223	312	177	156	232	156	145	225	171	415	223	364	2799
1966	409	259	439	318	126	201	191	285	189	302	216	481	3416
1967	588	188	496	187	286	222	120	183	273	186	502	367	3598
1968	311	65	421	212	355	157	220	135	196	522	202	651	3447
1969	266	174	330	230	173	310	115	377	127	300	403	519	3324
1970	466	201	257	295	220	144	242	216	275	132	211	267	2926
1971	593	518	310	401	138	134	118	291	195	227	277	338	3540
1972	356	214	34	319	121	78	112	141	222	343	193	284	2417
1973	229	104	269	232	214	292	134	294	371	257	154	326	2876
1974	176	600	231	146	210	271	244	102	480	137	211	332	3140
1975	244	343	210	230	225	125	134	325	376	252	375	438	3277
1976	519	249	228	294	106	153	87	186	276	272	262	541	3173
1977	405	483	284	294	343	191	74	343	202	364	251	296	3530
1978	392	110	598	174	203	177	141	78	333	208	261	390	3065
1979	245	130	332	331	126	278	140	239	491	261	297	274	3144
Average	377	278	300	257	204	183	167	201	282	256	283	397	3185
Maximum	596	600	598	511	355	310	360	377	491	522	502	588	3598
Minimum	176	65	34	97	106	64	74	41	127	132	202	267	2417

Table 24 MONTHLY RAINFALL IN ZONE SW 5

Station: Simanggang (No. 1214001) Unit: mm

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total
1960	518	248	172	352	146	112	355	280	366	240	351	681	3821
1961	281	284	331	204	202	153	205	246	-	72	237	322	-
1962	667	145	496	298	288	209	219	198	388	331	267	372	3878
1963	579	363	375	76	159	113	141	119	240	145	238	194	2742
1964	529	373	232	298	153	183	243	114	214	434	242	368	3383
1965	224	205	252	365	247	286	94	336	90	298	235	494	3126
1966	552	332	378	436	343	304	230	292	200	370	297	333	4067
1967	548	347	399	291	266	189	71	103	152	247	409	433	3455
1968	180	36	240	119	306	171	236	233	177	301	398	394	2791
1969	196	162	227	326	404	230	98	455	120	295	337	279	3129
1970	254	83	338	378	296	197	299	290	399	295	278	287	3394
1971	301	313	248	135	136	128	123	459	357	230	298	555	3283
1972	282	157	219	328	217	192	18	298	150	164	433	320	2778
1973	218	187	376	454	348	157	133	211	266	478	239	611	3678
1974	120	269	229	349	259	229	111	158	481	251	267	333	3056
1975	262	364	185	257	158	357	380	255	287	296	500	673	3974
1976	312	188	219	290	213	215	193	147	161	341	366	662	3307
1977	326	481	180	233	227	261	268	300	102	376	310	500	3564
1978	373	224	424	179	263	199	323	210	314	254	362	514	3639
1979	321	441	187	246	336	406	104	226	286	244	319	289	3405
Average	352	260	285	281	248	215	192	247	250	283	319	431	3363
Maximum	667	481	496	454	404	406	380	459	481	478	500	681	4067
Minimum	120	36	172	76	136	112	18	103	90	72	235	194	2742

Table 25 MONTHLY RAINFALL IN ZONE SW 6

Station: Kuching Airport (No. 1403001)

Unit: mm

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total
1960	473	454	169	346	221	280	446	177	258	249	341	255	3669
1961	784	633	382	333	285	207	125	230	211	203	358	409	4160
1962	1050	625	424	264	358	161	172	233	328	192	310	399	4516
1963	1165	865	581	98	358	325	107	158	293	369	216	373	4908
1964	288	1558	448	314	201	128	245	125	250	281	348	606	4792
1965	380	689	358	267	151	218	48	267	124	143	215	469	3329
1966	447	473	420	217	159	185	386	326	265	296	337	472	3983
1967	618	460	310	200	234	211	85	66	231	484	370	385	3654
1968	718	291	598	112	240	243	300	301	297	562	386	393	4441
1969	380	401	299	385	432	115	241	387	242	527	363	504	4276
1970	814	361	287	360	260	293	144	317	252	388	376	410	4262
1971	1207	749	369	210	284	305	101	288	180	372	601	322	4988
1972	537	353	176	233	228	182	93	132	229	269	284	374	3090
1973	505	499	377	428	409	179	158	239	247	356	261	881	4539
1974	146	687	167	85	180	289	160	275	343	374	354	264	3324
1975	541	557	371	242	262	140	206	487	340	335	445	784	4710
1976	1079	278	192	330	187	216	309	157	96	220	254	452	3770
1977	627	1275	580	458	211	194	233	243	198	487	317	471	5294
1978	973	435	367	162	234	197	128	180	287	382	320	571	4236
1979	804	365	243	466	143	230	197	160	400	403	454	500	4365
Average	677	600	356	276	252	215	194	237	254	345	346	465	4217
Maximum	1207	1558	598	466	432	325	446	487	400	562	601	881	5294
Minimum	146	278	167	85	143	115	48	66	96	142	215	255	3090

Table 26 MONTHLY EFFECTIVE RAINFALL IN ZONE SB 1

Station: Mostyn Estate (No. 4681001) Unit: mm

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total
1960	90	107	151	77	135	143	122	39	151	68	106	143	1332
1961	52	52	109	102	124	140	54	49	91	104	34	77	988
1962	179	58	112	97	167	125	77	118	144	106	115	134	1432
1963	225	142	69	48	131	95	43	162	79	133	104	142	1373
1964	94	81	62	122	129	83	85	52	102	191	126	68	1195
1965	122	62	115	121	107	137	110	113	134	108	134	128	1391
1966	88	71	96	90	109	95	125	128	91	158	122	94	1267
1967	136	20	127	123	152	137	106	89	109	111	119	70	1299
1968	176	8	79	124	56	62	93	123	115	108	104	89	1137
1969	81	19	58	130	123	128	76	115	122	93	106	129	1180
1970	72	67	121	139	147	95	124	119	110	125	130	142	1391
1971	122	143	33	64	155	149	67	161	70	54	135	119	1272
1972	85	79	68	137	146	133	67	97	149	122	41	56	1180
1973	8	4	83	112	157	133	113	141	143	133	129	128	1284
1974	32	159	89	132	95	87	85	68	112	147	128	53	1187
1975	113	56	100	124	140	152	125	97	139	147	153	113	1459
1976	85	20	37	121	124	145	112	143	48	128	78	100	1141
1977	137	188	59	155	142	89	146	93	56	135	61	63	1324
1978	88	10	68	100	138	109	85	107	91	130	141	74	1141
1979	12	50	72	134	37	114	101	78	105	113	93	96	1005
Average	100	70	85	113	127	117	96	105	108	121	108	101	1251
Maximum	225	188	151	155	167	152	146	162	149	191	153	143	1459
Minimum	8	4	33	64	37	83	43	39	48	54	34	53	988

Table 27 MONTHLY EFFECTIVE RAINFALL IN ZONE SB 2

Station: Kuamut (No. 5274201) Unit: mm

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total
1960	227	139	15	110	140	62	49	102	136	67	128	148	1323
1961	175	100	22	21	154	126	133	152	84	159	113	174	1413
1962	314	146	134	57	104	155	159	115	189	88	86	181	1728
1963	326	210	126	8	28	108	157	104	161	153	121	131	1633
1964	115	143	127	107	91	58	37	155	104	58	92	175	1262
1965	201	145	196	62	94	122	92	62	197	146	162	196	1675
1966	136	56	95	21	148	146	134	102	116	125	150	79	1308
1967	250	169	94	84	84	81	121	45	92	79	276	250	1625
1968	315	75	73	56	48	32	44	142	117	146	130	224	1402
1969	67	43	48	17	56	130	115	120	134	112	158	158	1158
1970	176	152	112	119	83	138	112	116	142	176	145	149	1620
1971	180	248	99	36	144	194	127	155	70	127	178	170	1728
1972	154	133	150	109	177	100	113	150	183	148	142	122	1681
1973	85	34	103	158	118	124	125	86	171	149	139	148	1440
1974	113	243	95	158	135	107	122	136	76	115	147	122	1569
1975	137	139	466	98	43	87	135	125	132	140	86	176	1764
1976	226	107	82	123	128	43	94	150	120	123	171	140	1507
1977	149	237	122	16	135	132	156	146	76	149	134	144	1596
1978	155	104	42	72	131	142	140	97	132	116	134	152	1417
1979	162	108	123	129	104	154	131	67	100	131	204	197	1610
Average	183	137	116	78	107	112	115	116	127	125	145	162	1523
Maximum	326	248	466	158	177	194	159	155	197	176	276	250	1764
Minimum	85	34	15	8	28	32	37	45	70	67	86	79	1158

Table 28 MONTHLY EFFECTIVE RAINFALL IN ZONE SB 3

Station: Pamol Estate (No. 5974001) Unit: mm

Year	Jan	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total
1960	253	164	49	85	147	37	124	55	131	176	169	174	1564
1961	168	147	116	33	220	89	131	127	147	158	95	200	1631
1962	337	179	216	162	97	161	122	124	231	132	144	264	2169
1963	470	213	183	44	100	154	182	146	136	168	86	139	2021
1964	106	186	120	126	77	167	54	155	131	122	97	153	1494
1965	165	219	216	118	193	197	131	175	195	134	155	140	2038
1966	185	150	104	45	152	104	121	158	141	105	77	123	1465
1967	278	184	137	49	129	173	117	110	115	143	215	203	1853
1968	286	82	40	14	126	68	112	110	48	122	79	170	1257
1969	129	139	79	32	61	206	119	125	145	146	141	169	1491
1970	182	94	112	122	149	168	146	169	82	138	169	176	1707
1971	211	687	81	17	123	113	14	158	154	160	176	178	2072
1972	170	150	195	37	131	64	138	172	126	136	126	94	1539
1973	76	7	84	126	55	112	89	110	169	170	100	142	1240
1974	133	298	94	116	146	52	131	103	32	141	159	189	1594
1975	194	135	137	99	202	163	183	198	128	124	160	155	1878
1976	243	202	134	34	51	44	109	48	60	95	131	299	1450
1977	222	476	65	29	123	76	125	1	177	132	103	160	1689
1978	389	144	128	136	106	173	19	196	110	267	425	587	2680
1979	223	177	294	262	180	264	324	225	210	338	260	202	2959
Average	221	202	129	84	128	129	125	133	133	155	153	196	1788
Maximum	470	687	294	262	220	264	324	225	231	338	425	587	1240
Minimum	76	7	40	14	51	37	14	1	32	95	77	94	2959

Table 29 MONTHLY EFFECTIVE RAINFALL IN ZONE SB 4

Station: Ranau (No. 5967001)

Unit: mm

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total
1960	102	65	99	52	132	97	76	77	120	80	100	132	1132
1961	101	87	79	97	135	121	106	89	137	85	101	147	1285
1962	189	72	138	98	164	143	31	116	97	91	29	186	1354
1963	284	152	125	62	135	44	151	97	65	138	86	86	1425
1964	69	128	135	128	51	137	147	89	113	108	99	94	1298
1965	101	141	148	123	105	54	24	86	116	125	95	125	1243
1966	139	74	103	67	81	149	97	123	150	157	101	62	1303
1967	180	147	121	77	128	71	105	38	63	107	116	101	1254
1968	140	41	127	122	115	137	122	120	87	141	25	154	1331
1969	93	53	94	74	122	135	82	168	46	117	105	126	1215
1970	141	16	65	115	128	133	137	139	107	103	134	143	1361
1971	127	209	67	19	54	89	62	152	104	125	137	88	1233
1972	52	61	130	65	113	67	44	124	160	79	120	64	1079
1973	46	22	17	129	134	123	92	125	168	74	152	243	1325
1974	277	298	55	106	145	125	104	87	79	54	48	130	1508
1975	172	95	103	48	149	114	137	157	123	128	121	118	1465
1976	144	43	73	70	35	58	50	118	34	136	124	96	981
1977	131	245	43	76	120	147	61	139	42	136	124	76	1340
1978	111	73	50	128	111	146	84	43	102	102	58	141	1149
1979	61	53	102	53	118	106	115	26	109	126	140	49	1058
Average	133	104	94	85	114	110	91	106	101	111	101	118	1268
Maximum	277	298	148	129	164	149	151	168	168	157	152	243	981
Minimum	46	22	17	19	35	44	24	26	34	54	25	49	1508

Table 30 MONTHLY EFFECTIVE RAINFALL IN ZONE SB 5

Station: Keningau (No. 5361001) Unit: mm

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total
1960	62	80	38	35	104	50	110	33	70	85	158	55	880
1961	50	104	72	41	67	86	83	29	32	107	57	124	852
1962	158	94	64	139	139	120	17	134	61	33	66	133	1158
1963	172	102	87	26	115	19	60	20	39	33	77	97	847
1964	16	146	128	94	125	104	125	11	85	88	85	83	1090
1965	68	34	141	68	124	49	22	127	69	121	82	79	984
1966	30	25	109	69	64	82	113	70	67	105	30	104	868
1967	128	80	82	23	75	56	62	31	96	77	76	91	877
1968	118	36	90	114	134	93	110	52	76	142	64	70	1099
1969	76	40	104	28	110	96	52	131	8	49	95	89	878
1970	91	27	84	71	135	80	44	61	78	123	98	98	990
1971	70	180	34	49	77	41	41	180	38	118	164	119	1111
1972	90	65	90	136	67	98	30	72	38	28	80	23	817
1973	16	2	57	99	103	119	71	85	178	48	100	82	960
1974	63	130	66	91	116	89	50	71	136	80	82	82	1056
1975	105	81	70	32	156	80	77	77	89	38	69	134	1008
1976	94	28	86	33	44	49	121	71	20	121	97	38	802
1977	113	131	85	86	116	121	112	67	24	82	109	98	1144
1978	62	62	11	68	122	59	106	11	124	75	52	79	831
1979	56	47	136	38	101	96	104	43	98	130	127	98	1074
Average	82	75	82	67	105	79	76	69	71	84	88	89	967
Maximum	172	180	141	139	156	121	125	180	178	142	164	134	1158
Minimum	16	2	11	23	44	19	17	11	8	28	30	38	802

Table 31 MONTHLY EFFECTIVE RAINFALL IN ZONE SB 6

Station: Kota Kinabalu (No. 5960001) Unit: mm

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total
1960	61	52	72	46	133	139	163	67	258	149	152	27	1319
1961	23	29	134	133	60	154	112	133	182	158	85	104	1307
1962	116	18	80	94	127	159	134	171	161	104	159	151	1474
1963	271	49	16	11	67	122	167	149	106	187	105	187	1437
1964	3	9	13	68	138	134	142	101	130	156	174	78	1146
1965	74	60	85	21	141	73	120	138	96	129	53	103	1093
1966	54	43	40	153	97	178	140	162	108	178	157	167	1477
1967	137	56	71	94	134	148	156	80	138	226	111	50	1401
1968	56	7	32	48	130	125	132	113	118	165	123	73	1122
1969	20	32	89	9	154	147	165	188	147	77	206	160	1394
1970	47	7	5	59	120	154	89	135	144	263	119	114	1256
1971	41	43	5	22	179	147	129	142	171	191	157	200	1427
1972	102	23	11	19	94	120	136	125	143	19	128	105	1025
1973	4	1	7	139	120	183	177	129	192	142	200	200	1494
1974	117	143	50	40	43	132	72	174	158	218	133	85	1365
1975	56	56	59	7	100	155	123	142	187	155	136	196	1372
1976	129	25	8	19	129	142	115	173	116	8	140	145	1149
1977	154	115	20	29	25	217	101	78	65	180	115	154	1253
1978	30	14	15	50	110	141	63	118	131	151	179	88	1090
1979	6	13	48	59	92	242	238	73	156	243	198	38	1406
Average	75	40	43	56	110	151	134	130	145	155	141	121	1301
Maximum	271	115	134	139	154	242	238	188	258	263	206	200	1494
Minimum	3	1	5	7	25	73	63	67	65	8	53	27	1025

Table 32 MONTHLY EFFECTIVE RAINFALL IN ZONE SB 7

Station: Mawao Estate (No. 5457002) Unit: mm

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total
1960	120	98	63	128	194	202	236	134	353	146	228	116	2018
1961	89	93	123	164	141	246	176	141	129	189	152	201	1844
1962	194	68	97	211	172	128	58	235	140	144	180	199	1826
1963	341	72	137	101	187	135	138	169	167	230	95	125	1897
1964	1	31	128	157	238	207	261	125	194	122	262	126	1852
1965	259	151	194	151	215	142	106	182	168	217	146	140	2071
1966	83	41	123	179	144	212	196	214	139	240	216	239	2026
1967	170	129	122	157	239	154	123	113	160	179	266	61	1873
1968	79	146	136	60	191	82	147	168	167	215	94	152	1637
1969	58	122	129	124	294	209	249	211	79	203	249	164	2091
1970	154	13	87	190	203	169	155	181	281	269	211	182	2095
1971	103	136	34	111	181	128	200	185	229	235	186	272	2000
1972	219	144	131	71	153	125	110	158	116	123	115	68	1533
1973	14	4	47	206	182	170	193	143	230	116	185	133	1623
1974	106	62	32	9	22	58	77	57	152	163	95	92	925
1975	53	73	77	76	194	146	176	52	221	89	251	206	1614
1976	100	82	81	41	116	111	89	157	36	130	88	141	1172
1977	210	221	30	2	41	124	43	7	18	100	204	139	1139
1978	11	42	74	158	188	192	142	126	161	161	177	43	1475
1979	26	102	56	125	115	114	113	29	89	100	141	66	1076
Average	120	92	95	121	171	153	149	139	161	169	177	143	1690
Maximum	341	221	194	211	294	246	261	235	353	269	266	272	2095
Minimum	1	4	30	9	22	58	43	7	18	89	88	43	925

Table 33 MONTHLY EFFECTIVE RAINFALL IN ZONE SW 1

Station: Ukong (No. 4548004) Unit: mm

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total
1960	124	199	58	161	140	112	171	118	152	140	191	162	1728
1961	98	150	126	131	106	121	124	65	116	137	135	193	1502
1962	262	52	199	200	184	130	68	158	126	119	162	172	1832
1963	379	200	154	22	22	68	107	152	127	162	159	149	1701
1964	113	110	128	220	151	143	257	98	214	184	232	164	2014
1965	193	163	212	205	212	83	65	127	114	200	203	203	1980
1966	137	92	146	156	89	123	122	189	92	179	200	292	1817
1967	183	203	125	148	138	164	114	53	173	241	182	222	1946
1968	221	163	222	196	201	209	173	151	165	248	125	177	2251
1969	135	163	128	94	167	136	127	189	66	227	190	167	1789
1970	194	72	164	127	176	132	91	121	157	167	190	187	1778
1971	132	177	106	68	134	83	46	201	187	219	175	129	1657
1972	243	123	143	237	108	128	44	71	133	170	262	234	1896
1973	28	43	146	250	172	213	153	241	241	152	162	169	1970
1974	211	206	137	158	144	121	167	157	263	142	164	196	2066
1975	268	88	116	97	206	143	158	121	187	143	176	158	1861
1976	220	148	96	116	149	121	80	126	39	211	162	164	1632
1977	189	71	191	122	153	171	123	74	81	167	248	224	1814
1978	233	56	114	108	201	149	162	106	144	128	166	165	1732
1979	33	131	131	132	87	183	169	132	195	191	252	177	1813
Average	180	131	142	147	147	137	126	133	149	176	187	185	1840
Maximum	379	206	222	250	212	213	257	241	263	248	262	292	2251
Minimum	28	43	58	22	22	68	44	53	39	119	125	129	1632

Table 34 MONTHLY EFFECTIVE RAINFALL IN ZONE SW 2

Station: Miri (No. 4339005) Unit: mm

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total
1960	89	154	80	67	112	130	137	25	186	120	193	122	1415
1961	83	109	52	117	79	175	122	110	93	134	32	155	1261
1962	202	13	125	80	140	145	29	136	165	173	213	189	1610
1963	580	119	109	3	104	53	143	67	83	73	98	130	1562
1964	134	22	56	120	116	88	185	185	131	136	218	142	1533
1965	247	134	149	138	113	125	76	77	79	141	151	178	1608
1966	86	70	148	166	30	106	156	164	93	147	176	239	1581
1967	179	106	132	107	123	133	115	121	109	104	147	171	1547
1968	125	72	103	91	80	141	140	139	107	145	124	134	1401
1969	64	45	28	116	173	94	118	144	110	205	263	155	1515
1970	154	74	59	159	105	127	142	155	137	210	158	129	1609
1971	158	126	26	101	75	43	140	169	85	198	153	205	1479
1972	162	92	86	75	64	135	52	28	169	113	149	102	1227
1973	4	13	106	179	111	148	135	101	152	161	197	247	1554
1974	165	140	66	58	143	140	52	100	171	148	152	171	1506
1975	134	83	89	34	87	122	112	97	173	152	140	153	1376
1976	191	94	37	90	61	98	22	149	45	118	100	144	1149
1977	182	174	92	83	56	98	128	106	81	161	177	159	1497
1978	82	70	133	64	170	137	95	71	130	151	164	139	1406
1979	28	44	110	128	16	182	106	98	143	191	185	121	1352
Average	152	88	89	99	98	121	110	112	122	149	160	159	1459
Maximum	580	174	149	166	173	182	156	185	186	210	263	247	1610
Minimum	4	13	26	3	16	43	22	25	45	73	32	102	1149

Table 35 MONTHLY EFFECTIVE RAINFALL IN ZONE SW 3

Station: Bintulu (No. 3130002)

Unit: mm

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total
1960	173	121	92	140	138	155	181	64	143	132	196	213	1748
1961	155	151	127	162	98	123	103	140	125	195	195	221	1795
1962	229	76	215	137	103	153	125	185	123	133	230	166	1875
1963	440	154	110	118	137	128	124	171	148	109	206	181	2026
1964	149	71	97	177	155	87	192	103	137	168	230	28	1594
1965	182	132	145	73	117	71	73	71	130	166	134	176	1470
1966	171	190	126	145	35	196	150	246	134	179	172	184	1928
1967	262	84	165	174	148	148	162	131	127	124	222	169	1916
1968	168	123	103	113	147	134	142	172	104	139	67	239	1651
1969	127	119	194	143	182	92	61	218	70	216	195	248	1865
1970	140	80	160	197	200	185	199	120	176	146	190	168	1961
1971	230	301	63	85	128	89	85	210	141	155	209	237	1933
1972	216	132	62	57	83	100	132	125	158	83	212	165	1525
1973	75	93	202	175	129	218	166	146	196	129	135	219	1883
1974	149	146	70	152	104	165	135	125	199	172	209	168	1794
1975	215	125	143	164	69	134	181	164	167	152	173	232	1919
1976	248	121	174	89	115	108	148	147	128	162	158	165	1763
1977	194	289	204	44	77	109	77	142	130	128	181	155	1730
1978	157	52	155	139	183	139	136	62	173	178	173	203	1750
1979	98	91	139	114	47	244	161	94	161	158	156	174	1637
Average	189	133	137	130	120	139	137	142	144	151	182	186	1790
Maximum	440	301	215	197	200	244	199	246	199	216	230	248	2026
Minimum	75	52	62	44	35	71	61	62	70	83	67	28	1470

Table 36 MONTHLY EFFECTIVE RAINFALL IN ZONE SW 4

Station: Sibu Airport (No. 2318007) Unit: mm

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total
1960	199	107	157	147	78	91	118	104	145	99	127	236	1608
1961	162	158	141	140	112	98	93	25	177	96	174	200	1576
1962	192	135	175	100	-	128	85	86	145	121	161	156	-
1963	239	174	134	58	132	38	138	52	137	121	152	152	1527
1964	149	203	95	213	131	101	168	92	133	124	170	176	1755
1965	127	154	106	94	130	94	87	128	103	185	127	169	1504
1966	183	138	192	155	76	120	115	146	113	151	125	204	1718
1967	236	113	209	112	146	127	72	110	142	176	211	170	1824
1968	153	39	186	124	167	94	126	81	118	217	121	255	1681
1969	140	104	159	129	104	153	69	173	76	150	181	216	1654
1970	200	120	137	149	126	86	133	125	143	79	123	140	1561
1971	238	215	153	180	83	80	71	147	117	128	143	161	1716
1972	167	124	20	156	73	47	67	85	127	163	116	145	1290
1973	129	151	141	130	124	148	80	148	171	137	92	158	1609
1974	106	240	129	88	123	141	133	61	204	82	123	160	1590
1975	133	163	123	129	128	75	80	158	173	136	173	191	1662
1976	216	135	128	148	64	92	52	112	143	142	139	222	1593
1977	182	205	145	148	163	115	44	163	121	169	135	149	1739
1978	178	66	239	104	121	106	85	47	160	122	138	177	1543
1979	134	78	160	159	76	143	84	132	207	138	149	142	1602
Average	173	141	146	133	114	104	95	109	143	137	144	179	1618
Maximum	239	240	239	213	167	153	168	173	207	217	211	236	1824
Minimum	106	39	20	58	64	38	44	25	76	79	92	140	1290

Table 37 MONTHLY EFFECTIVE RAINFALL IN ZONE SW 5

Station: Simanggang (No. 1214001) Unit: mm

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total
1960	215	134	103	167	88	67	167	144	170	132	165	264	1816
1961	144	145	159	121	121	92	122	134	-	43	131	157	-
1962	260	87	209	149	146	123	126	119	176	159	140	172	1866
1963	234	169	173	46	95	68	85	71	132	87	131	116	1407
1964	219	172	130	149	92	110	133	68	124	190	133	170	1690
1965	127	122	136	170	134	146	56	161	54	149	131	208	1594
1966	226	160	173	191	163	151	129	148	120	171	149	160	1941
1967	224	164	180	147	140	113	43	62	91	134	183	190	1671
1968	108	22	132	71	152	103	131	130	106	150	179	178	1462
1969	118	97	128	158	181	129	59	197	72	149	161	144	1593
1970	136	50	161	173	149	118	150	147	180	149	143	146	1702
1971	150	154	134	81	82	77	74	198	167	129	149	227	1622
1972	145	94	126	158	125	115	11	149	90	98	190	156	1457
1973	125	112	173	196	164	94	80	123	140	203	132	243	1785
1974	72	141	129	165	138	129	67	95	204	135	140	160	1575
1975	139	169	111	137	95	167	174	137	146	149	210	262	1896
1976	154	113	126	147	124	125	116	88	97	162	170	259	1681
1977	158	204	108	130	128	138	140	150	61	173	153	210	1753
1978	172	127	187	107	139	119	157	123	154	136	169	214	1804
1979	156	192	112	134	161	182	62	128	146	133	156	177	1739
Average	164	131	145	140	131	118	104	129	128	142	156	191	1679
Maximum	260	204	209	191	181	182	167	198	204	203	210	264	1941
Minimum	72	50	103	46	82	68	11	62	54	43	131	116	1407

Table 38 MONTHLY EFFECTIVE RAINFALL IN ZONE SW 6

Station: Kuching Airport (No. 1403001)

Unit: mm

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total
1960	202	196	101	164	126	144	194	106	137	135	162	137	1804
1961	295	250	175	160	146	122	75	129	123	121	167	183	1946
1962	375	247	187	139	167	97	103	130	158	115	153	180	2051
1963	410	320	234	59	167	158	64	95	148	171	125	172	2123
1964	146	527	194	154	120	77	134	75	135	144	164	242	2112
1965	174	267	167	140	91	125	29	140	74	86	125	201	1619
1966	194	202	186	125	95	111	176	158	140	149	161	202	1899
1967	245	198	153	120	130	123	51	40	129	205	171	176	1741
1968	275	147	239	67	132	133	150	150	149	229	176	178	2025
1969	174	180	150	176	190	69	132	176	133	218	169	211	1978
1970	304	168	146	168	138	148	86	155	136	176	173	183	1981
1971	422	285	171	123	145	152	61	146	108	172	240	157	2182
1972	221	166	106	130	128	109	56	79	129	141	145	172	1582
1973	212	210	173	188	183	107	95	132	134	167	138	324	2063
1974	88	266	100	51	108	147	96	143	163	172	166	139	1639
1975	222	227	171	133	139	84	122	206	162	161	194	295	2116
1976	384	143	115	159	112	125	153	94	58	126	136	196	1801
1977	248	443	234	197	123	116	130	133	119	206	155	201	2305
1978	352	191	170	97	130	118	77	108	146	175	156	231	1951
1979	301	170	133	200	86	129	118	96	180	181	196	210	2000
Average	262	240	165	138	133	120	105	125	133	163	164	200	1948
Maximum	410	527	239	200	190	158	194	206	180	229	240	324	2305
Minimum	88	143	100	51	86	69	29	40	58	86	125	137	1741

Table 39 COMPARISON OF IRRIGATION WATER DEMAND CALCULATION

Item	Unit	Samarahan and Sadong-Krang (Dec. 1977)	Limbang Valley (Jan. 1980)
1. Cropping Schedule:			
Main season paddy			
Nursery	days	30	30/1
Field	days	150	130
Off season paddy			
Nursery	days	20	30/1
Field	days	110	110
2. Presaturation Requirement:			
Main season	mm	200	250
Off season	mm	-	250
3. Evapotranspiration:			
Main season	mm	628	583
Off season	mm	-	546
4. Percolation Rate:			
Rate	mm/d	2	2
Main season	mm	240	280
Off season	mm	-	280
5. Crop Water Requirement (2+3+4):			
Main season	mm	1,068	1,113
Off season	mm	-	1,076
6. Effective Rainfall: (Calculation method)			
Main season		80% probability of minimum rainfall	80% probability of rainfall within the range 5 to 50 mm/d
Off season		Mean rainfall	
7. Irrigation Efficiency:			
Conveyance	%	85	85
Field	%	90 (early stage 75)	90 (early stage 75)
Overall	%	76.5 (early stage 65)	76.5 (early stage 65)

Remarks; /1: Presaturation period

Source; Refs. SG 4 and SG 14

Table 40 CALCULATION OF CROP WATER REQUIREMENT FOR MINOR SCHEMES (1/3)

Unit: mm

	J	F	M	A	M	J	J	A	S	O	N	D	Total
Zone SB 1													
EW	104	98	116	112	113	105	110	113	112	119	105	100	1,307
K	1.25	0.40	-	0.07	0.93	1.34	1.10	0.08	-	0.41	1.25	1.40	-
P	93	42	-	12	81	90	81	12	-	45	93	93	642
FC	223	81	-	20	186	231	202	21	-	94	224	233	1,515
PS	-	-	43	195	22	-	-	-	173	91	-	-	524
CWR	223	81	43	215	208	231	202	21	173	185	224	233	2,039
Zone SB 2													
EW	100	99	115	125	130	115	119	118	117	123	110	107	1,378
K	1.34	1.36	0.94	0.06	-	0.41	1.25	1.40	0.52	-	0.07	0.93	-
P	93	84	81	12	-	45	93	93	45	-	12	81	639
FC	227	219	189	20	-	92	242	258	106	-	20	181	1,554
PS	-	-	-	-	214	88	-	-	-	48	206	21	577
CWR	227	219	189	20	214	180	242	258	106	48	226	202	2,131
Zone SB 3													
EW	98	97	118	132	145	125	127	131	125	125	108	102	1,433
K	1.34	1.36	0.94	0.06	-	0.41	1.25	1.40	0.52	-	0.07	0.93	-
P	93	84	80	12	-	45	93	93	45	-	12	81	638
FC	224	216	191	20	-	96	252	276	110	-	20	176	1,581
PS	-	-	-	-	250	93	-	-	-	45	198	21	607
CWR	224	216	191	20	250	189	252	276	110	45	218	198	2,188
Zone SB 4													
EW	98	97	118	132	145	125	127	131	125	125	108	102	1,433
K	1.34	1.36	0.94	0.06	-	0.41	1.25	1.40	0.52	-	0.07	0.93	-
P	93	84	80	12	-	45	93	,93	45	-	12	81	638
FC	216	206	186	19	-	90	247	261	108	-	19	171	1,523
PS	-	-	-	-	173	85	-	-	-	43	190	20	511
CWR	216	206	186	31	173	175	247	261	108	43	209	191	2,034
Zone SB 5													
EW	120	117	135	143	137	125	131	132	133	131	122	116	1,542
K	1.40	1.25	0.40	-	0.07	0.93	1.34	1.10	0.08	-	0.41	1.25	-
P	93	84	45	-	12	80	93	81	12	-	45	93	638
FC	261	230	99	-	22	186	269	226	23	-	95	238	1,649
PS	-	-	-	61	254	24	-	-	-	214	91	-	644
CWR	261	230	97	61	274	210	269	226	23	214	186	238	2,293

Remarks; FC = EW K + P, CWR = FC + PS

Table 41 CALCULATION OF CROP WATER REQUIREMENT FOR MINOR SCHEMES (2/3)

Unit: mm

	J	F	M	A	M	J	J	A	S	O	N	D	Total
Zone SB 6													
EW	133	131	158	161	159	149	150	150	140	146	131	133	1,741
K	1.36	0.94	0.06	-	0.41	1.25	1.40	0.52	-	0.07	0.93	1.34	-
P	93	74	12	-	47	90	93	47	-	12	80	83	631
FC	274	197	21	-	112	276	303	125	-	22	202	271	1,803
PS	-	-	-	296	111	-	-	-	63	265	26	-	761
CWR	274	197	21	296	223	276	303	125	63	287	228	271	2,564
Zone SB 7													
EW	118	107	124	122	125	123	126	126	118	117	113	113	1,434
K	1.25	0.40	-	0.41	1.25	1.40	0.52	-	-	0.41	1.25	1.40	-
P	93	42	-	45	93	90	47	-	-	47	90	93	640
FC	241	85	-	95	249	262	113	-	-	95	231	251	1,622
PS	-	-	206	91	-	-	-	-	190	90	-	-	577
CWR	241	85	206	186	249	262	113	-	190	185	231	251	2,199
Zone SW 1													
EW	97	99	124	124	125	113	116	119	110	107	103	104	1,341
K	1.25	0.40	-	0.07	0.93	1.34	1.10	0.08	-	0.41	1.25	1.40	-
P	93	42	-	12	81	90	81	12	-	47	90	93	641
FC	214	82	-	21	197	241	209	22	-	91	219	239	1,535
PS	-	-	52	224	23	-	-	-	173	85	-	-	557
CWR	214	82	52	245	220	241	209	22	173	176	219	239	2,092
Zone SW 2													
EW	110	113	131	137	138	131	137	139	133	131	117	113	1,530
K	1.25	0.40	-	0.07	0.93	1.34	1.10	0.08	-	0.41	1.25	1.40	-
P	93	42	-	12	81	90	81	12	-	47	90	93	641
FC	231	87	-	22	239	266	232	23	-	101	236	251	1,688
PS	-	-	57	249	25	-	-	-	229	97	-	-	657
CWR	231	87	57	271	264	266	232	23	229	198	236	251	2,345
Zone SW 3													
EW	110	108	129	129	131	122	124	128	122	119	113	113	1,488
K	1.25	0.40	-	0.07	0.93	1.34	1.10	0.08	-	0.41	1.25	1.40	-
P	93	42	-	12	81	90	81	12	-	47	90	93	641
FC	231	85	-	21	203	253	217	22	-	96	231	251	1,610
PS	-	-	54	235	24	-	-	-	206	91	-	-	610
CWR	231	85	54	256	227	253	217	22	206	187	231	251	2,220

Remarks; FC = KW K + P, CWR = FC + PS

Table 42 CALCULATION OF CROP WATER REQUIREMENT FOR MINOR SCHEMES (3/3)

Unit: mm

	J	F	M	A	M	J	J	A	S	O	N	D	Total
Zone SW 4													
EW	95	94	112	110	114	112	114	113	112	113	104	98	1,291
K	0.94	0.06	-	0.41	1.25	1.40	0.52	-	0.07	0.93	1.34	1.36	-
P	81	11	-	45	93	90	47	-	12	81	90	93	643
FC	170	17	-	90	236	247	106	-	20	186	229	226	1,527
PS	-	-	164	-	-	-	-	42	192	22	-	-	420
CWR	170	17	164	90	236	247	106	42	212	208	229	226	1,947
Zone SW 5													
EW	119	114	125	127	122	117	118	122	122	132	113	117	1,488
K	0.94	0.06	-	0.41	1.25	1.40	0.52	-	0.07	0.93	1.34	1.36	-
P	81	11	-	45	93	90	47	-	12	81	90	93	643
FC	193	18	-	97	246	254	108	-	21	204	241	252	1,634
PS	-	-	198	94	-	-	-	50	218	24	-	-	584
CWR	193	18	198	191	246	254	108	50	239	228	241	252	2,218
Zone SW 6													
EW	97	95	113	113	126	116	122	122	113	116	104	101	1,338
K	1.34	1.36	0.94	0.06	0.07	0.93	1.34	1.10	0.08	-	0.07	0.93	-
P	93	84	81	12	12	80	93	81	12	-	12	81	651
FC	223	213	187	19	21	188	256	215	21	-	19	175	1,537
PS	-	-	-	49	213	23	-	-	-	41	184	21	531
CWR	223	213	187	68	234	211	256	215	21	41	203	196	2,068

Remarks; FC = EW K + P, CWR = FC + PS

Table 43 CALCULATION OF CROP WATER REQUIREMENT FOR MAJOR SCHEMES (1/2)

Unit: mm

	J	F	M	A	M	J	J	A	S	O	N	D	Total
Zone SB 3 (Lower Labuk)													
EW	98	97	118	132	145	125	127	131	125	125	108	102	1,433
K	1.34	1.36	0.94	0.06	-	0.41	1.25	1.40	0.52	-	0.07	0.93	-
P	62	56	53	8	-	30	62	62	30	-	8	54	425
FC	193	188	164	16	-	81	221	245	95	-	16	149	1,368
PS	-	-	-	-	250	93	-	-	-	45	198	21	607
CWR	193	188	164	24	250	174	221	245	95	45	214	170	1,975
Zone SB 6 (Lembar Bengkoka)													
EW	133	131	158	161	159	149	150	150	140	146	131	133	1,741
K	1.36	0.94	0.06	-	0.41	1.25	1.40	0.52	-	0.07	0.93	1.34	-
P	62	49	8	-	31	60	62	31	-	8	53	62	426
FC	243	172	17	-	96	246	272	109	-	18	175	240	1,588
PS	-	-	-	294	111	-	-	-	63	265	26	-	761
CWR	243	172	17	296	207	246	272	109	63	283	201	240	2,349
Zone SW 1 (Limbang Valley)													
EW	97	99	124	124	125	113	116	119	110	107	103	104	1,341
K	1.25	0.40	-	0.07	0.93	1.34	1.10	0.08	-	0.41	1.25	1.40	-
P	62	28	-	8	54	60	54	8	-	31	60	62	427
FC	183	68	-	17	170	211	182	18	-	75	189	208	1,321
PS	-	-	52	224	23	-	-	-	173	85	-	-	557
CWR	183	68	52	241	193	211	182	18	173	160	189	208	1,878
Zone SW 4 (Binatang Barat)													
EW	95	94	112	110	114	112	114	113	112	113	104	98	1,291
K	0.94	0.06	-	0.41	1.25	1.40	0.52	-	0.07	0.93	1.34	1.36	-
P	54	7	-	30	62	60	31	-	8	54	60	62	428
FC	143	13	-	75	205	217	90	-	16	159	199	195	1,312
PS	-	-	164	85	-	-	-	42	192	22	-	-	505
CWR	143	13	164	160	205	217	90	42	208	171	199	195	1,817

Remarks; FC = EW K + P , CWR = FC + PS

Table 44 CALCULATION OF CROP WATER REQUIREMENT FOR MAJOR SCHEMES (2/2)

Unit: mm

	J	F	M	A	M	J	J	A	S	O	N	D	Total
Zone SW 5 (Batang Lupor)													
EW	119	114	125	127	122	117	118	122	122	132	113	117	1,448
K	0.94	0.06	-	0.41	1.25	1.40	0.52	-	0.07	0.93	1.34	1.36	-
P	54	7	-	30	62	60	31	-	8	54	60	62	428
FC	166	14	-	82	215	224	92	-	17	177	211	221	1,419
PS	-	-	198	94	-	-	-	50	218	24	-	-	584
CWR	166	14	198	176	215	224	92	50	235	201	211	221	2,003
Zone SW 6 (Samarahan/Sadong Krang)													
EW	97	95	113	113	126	116	122	122	113	116	104	101	1,338
K	1.34	1.36	0.94	0.06	-	0.07	0.93	1.34	1.10	0.08	0.07	0.93	-
P	62	56	54	8	-	8	53	62	54	8	8	54	427
FC	192	185	160	15	-	17	161	225	188	17	15	148	1,323
PS	-	-	-	-	49	213	23	-	-	41	184	21	531
CWR	192	185	160	15	49	230	184	225	188	58	199	169	1,854

Remarks; FC = EW K + P, CWR = FC + PS

Table 45 IRRIGATION WATER DEMAND FOR MINOR SCHEMES IN BASIN 213 IN 1990

Unit: 10^6 m^3

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1960	5.20	6.43	4.54	1.12	0.98	0.86	2.15	2.31	2.19	1.10	4.15	2.65	33.68
1961	5.25	5.43	5.33	0.86	0.97	0.60	1.77	2.16	1.80	1.08	4.13	1.99	31.36
1962	1.23	4.12	2.98	0.86	0.84	0.36	2.21	1.82	2.72	1.06	6.33	0.27	27.28
1963	0.	2.46	3.50	1.06	0.97	1.43	1.20	2.06	3.45	0.86	4.58	4.68	26.25
1964	6.21	3.56	3.10	0.68	1.36	0.42	1.25	2.16	2.35	0.99	4.18	4.33	31.08
1965	5.25	2.97	2.58	0.71	1.11	1.32	2.80	2.20	2.28	0.97	4.30	2.96	29.39
1966	3.51	4.02	4.38	1.03	1.22	0.29	1.88	1.73	1.51	0.78	4.11	5.74	32.21
1967	1.64	2.69	3.66	0.98	1.00	1.14	1.78	2.80	3.49	0.99	3.65	4.02	27.84
1968	3.47	7.51	3.42	0.77	1.06	0.42	1.57	1.77	2.94	0.85	6.46	1.68	31.88
1969	5.61	4.98	4.71	0.99	1.03	0.44	2.07	1.17	3.88	0.95	3.99	2.91	34.77
1970	3.42	8.67	5.89	0.76	1.00	0.67	1.58	1.53	2.49	1.01	3.10	2.16	31.88
1971	4.06	0.	5.81	1.31	1.34	0.94	2.32	1.37	2.56	0.92	3.01	4.59	28.22
1972	7.48	6.62	3.50	1.04	1.07	1.18	2.55	1.72	1.28	1.11	3.53	5.65	36.53
1973	7.76	8.40	7.81	0.68	0.98	0.57	1.94	1.71	1.10	1.13	2.54	0.	34.61
1974	0.	0.	6.29	0.81	0.92	0.55	1.79	2.18	3.13	1.21	5.75	2.74	25.36
1975	2.01	5.07	4.58	1.14	0.91	0.67	1.58	1.30	2.12	0.90	3.50	3.27	26.64
1976	3.29	7.44	5.57	1.02	1.43	1.28	2.42	1.79	4.35	0.87	3.43	4.24	36.96
1977	3.88	0.	6.77	0.98	1.04	0.31	2.53	1.53	3.97	0.87	3.41	5.12	30.21
1978	4.79	6.07	6.49	0.68	1.08	0.32	2.04	2.73	2.60	1.01	5.44	2.25	35.53
1979	7.07	6.98	4.42	1.11	1.05	0.76	1.66	2.95	2.44	0.91	2.91	6.31	38.57
AVERAGE	4.08	4.97	4.75	0.93	1.07	0.72	1.95	1.95	2.62	0.98	4.12	3.38	31.51

Table 46 IRRIGATION WATER DEMAND FOR MINOR SCHEMES IN BASIN 214 IN 1990

Unit: 10^6 m^3

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1960	2.21	2.74	1.93	0.24	0.46	0.40	1.01	1.08	0.93	0.47	1.76	1.13	14.37
1961	2.23	2.31	2.27	0.13	0.46	0.28	0.83	1.01	0.77	0.46	1.75	0.85	13.35
1962	0.52	2.60	1.27	0.13	0.39	0.17	1.27	0.85	1.16	0.45	2.69	0.11	11.63
1963	0.	1.05	1.49	0.22	0.46	0.67	0.57	0.97	1.47	0.37	1.95	1.99	11.19
1964	2.85	1.51	1.32	0.06	0.64	0.20	0.59	1.01	1.00	0.42	1.78	1.84	13.22
1965	2.23	1.26	1.10	0.07	0.52	0.62	1.31	1.03	0.97	0.39	1.83	1.26	12.60
1966	1.50	2.56	1.86	0.21	0.57	0.14	0.88	0.81	0.64	0.33	1.75	2.44	13.70
1967	0.70	1.15	1.56	0.18	0.47	0.53	0.84	1.31	1.49	0.42	1.55	1.71	11.91
1968	1.48	3.20	1.45	0.07	0.50	0.20	0.74	0.83	1.25	0.36	2.75	0.71	13.55
1969	2.39	2.97	2.01	0.19	0.48	0.21	0.97	0.55	1.65	0.40	1.70	1.24	14.77
1970	1.46	3.69	2.51	0.09	0.47	0.22	0.65	0.72	1.06	0.43	1.32	0.92	13.53
1971	1.73	0.	2.47	0.32	0.63	0.44	1.09	0.64	1.09	0.39	1.28	1.95	12.04
1972	3.18	2.82	1.40	0.21	0.50	0.56	1.20	0.81	0.54	0.47	1.50	2.40	15.60
1973	3.30	3.57	3.32	0.06	0.46	0.27	0.91	0.80	0.47	0.48	1.08	0.	14.72
1974	0.	0.	2.68	0.11	0.43	0.26	0.84	1.03	1.33	0.52	2.45	1.17	10.81
1975	0.85	2.16	1.86	0.25	0.43	0.32	0.65	0.61	0.90	0.38	1.49	1.39	11.29
1976	1.40	3.17	2.37	0.20	0.67	0.60	1.16	0.84	1.77	0.37	1.45	1.80	15.80
1977	1.65	0.	2.88	0.18	0.49	0.15	1.10	0.72	1.69	0.37	1.45	2.18	12.85
1978	2.04	2.58	2.76	0.06	0.51	0.15	0.96	1.28	1.11	0.43	2.31	0.96	15.16
1979	3.01	2.97	1.88	0.24	0.49	0.36	0.78	1.38	1.04	0.39	1.24	2.69	16.46
AVERAGE	1.74	2.12	2.02	0.16	0.50	0.34	0.92	0.92	1.12	0.42	1.75	1.44	13.43

Table 47 IRRIGATION WATER DEMAND FOR MINOR SCHEMES IN BASIN 216 IN 1990

Unit: 10^6 m^3

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1960	2.97	2.11	0.17	2.25	0.88	1.54	1.57	1.27	0.31	1.61	1.03	3.40	19.10
1961	3.50	2.39	0.06	1.89	1.59	1.37	2.14	0.81	0.41	1.53	1.93	2.33	19.94
1962	2.20	2.52	0.15	2.05	0.93	1.31	1.90	0.55	0.44	2.04	0.94	1.67	16.70
1963	0.04	2.15	0.26	2.39	1.52	1.73	1.53	0.70	0.51	1.25	1.67	1.17	14.92
1964	3.77	2.63	0.27	2.16	0.83	1.59	1.81	1.04	0.48	1.55	0.74	2.69	19.55
1965	2.79	2.01	0.14	2.35	0.80	2.28	2.05	0.78	0.52	1.80	2.37	2.34	20.23
1966	3.06	2.22	0.22	1.81	1.23	1.10	1.83	0.61	0.51	1.34	0.97	1.45	16.34
1967	1.91	2.06	0.17	2.05	0.87	1.44	1.65	1.18	0.47	0.89	1.58	3.08	17.34
1968	3.04	2.66	0.24	2.24	0.91	1.69	1.92	0.95	0.49	1.46	1.42	2.76	19.78
1969	3.54	2.35	0.14	2.40	0.67	1.45	1.55	0.43	0.46	2.29	0.31	1.55	17.12
1970	3.16	2.66	0.28	2.19	1.00	1.37	2.40	0.80	0.46	0.54	1.48	2.19	18.53
1971	3.25	2.27	0.28	2.34	0.43	1.45	1.95	0.75	0.43	1.22	0.97	0.99	16.27
1972	2.40	2.46	0.27	2.36	1.26	1.75	1.87	0.87	0.46	2.83	1.36	2.31	20.20
1973	3.76	2.73	0.28	1.86	1.00	1.04	1.41	0.84	0.40	1.68	0.39	0.99	16.39
1974	2.19	1.00	0.21	2.27	1.75	1.62	2.59	0.53	0.44	0.96	1.29	2.59	17.44
1975	3.04	2.06	0.19	2.41	1.20	1.36	2.02	0.75	0.40	1.56	1.25	1.04	17.27
1976	2.02	2.44	0.28	2.36	0.92	1.50	2.11	0.54	0.50	2.94	1.19	1.75	18.54
1977	1.67	1.34	0.26	2.32	1.93	0.66	2.27	1.20	0.56	1.52	1.53	1.63	16.68
1978	3.40	2.57	0.27	2.23	1.10	1.51	2.69	0.92	0.48	1.59	0.67	2.55	19.98
1979	3.73	2.59	0.21	2.19	1.28	0.38	0.73	1.23	0.44	0.73	0.41	3.25	17.17
AVERAGE	2.77	2.26	0.22	2.20	1.10	1.41	1.90	0.84	0.46	1.56	1.17	2.09	17.97

Table 48 IRRIGATION WATER DEMAND FOR MINOR SCHEMES IN BASIN 217 IN 1990

Unit: 10^6 m^3

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1960	13.19	9.38	0.74	8.08	3.15	5.53	5.65	5.67	1.40	8.32	4.59	15.11	80.81
1961	15.54	10.63	0.26	6.79	5.70	4.92	7.71	3.62	1.83	8.02	8.60	10.34	83.97
1962	9.78	11.22	0.68	7.37	3.36	4.72	6.82	2.45	1.95	9.85	4.17	7.43	69.81
1963	0.19	9.54	1.18	8.59	5.46	6.21	5.49	3.13	2.26	7.03	7.40	5.20	61.68
1964	16.78	11.71	1.20	7.75	2.98	5.73	6.50	4.61	2.12	8.08	3.27	11.95	82.69
1965	12.39	8.95	0.64	8.45	2.87	8.19	7.38	3.47	2.32	9.00	10.52	10.40	84.58
1966	13.62	9.87	0.99	6.49	4.41	3.95	6.58	2.72	2.25	7.33	4.29	6.44	68.96
1967	8.48	9.17	0.75	7.37	3.12	5.16	5.93	5.26	2.08	5.70	7.05	13.69	73.75
1968	13.50	11.82	1.05	8.05	3.26	6.09	6.90	4.24	2.19	7.78	6.33	12.26	83.47
1969	15.73	10.47	0.61	8.62	2.42	5.20	5.57	1.92	2.03	10.77	1.36	6.87	71.57
1970	14.06	11.82	1.26	7.88	3.61	4.92	8.63	3.56	2.04	4.44	6.57	9.72	78.52
1971	14.43	9.87	1.26	8.43	1.54	5.20	7.02	3.34	1.89	6.89	4.29	4.40	68.58
1972	10.65	10.95	1.22	8.48	4.52	6.29	6.74	3.87	2.05	12.75	6.03	10.28	83.82
1973	16.72	12.15	1.25	6.70	3.61	3.75	5.08	3.75	1.77	8.56	1.72	4.40	69.45
1974	9.72	4.45	0.91	8.17	6.30	5.81	9.32	2.35	1.96	5.97	5.73	11.52	72.22
1975	13.50	9.17	0.84	8.65	4.31	4.88	7.26	3.34	1.80	8.12	5.55	4.64	72.07
1976	8.98	10.85	1.24	8.48	3.29	5.41	7.58	2.38	2.20	13.12	5.31	7.80	76.65
1977	7.43	5.97	1.15	8.33	6.93	2.38	8.15	5.33	2.49	7.27	6.81	7.25	69.47
1978	15.11	11.44	1.18	8.02	3.96	5.45	9.68	4.09	2.12	8.25	2.97	11.33	83.61
1979	16.60	11.50	0.93	7.88	4.59	1.37	2.62	5.48	1.98	5.12	1.84	14.43	74.33
AVERAGE	12.32	10.05	0.97	7.93	3.97	5.06	6.83	3.73	2.04	8.12	5.22	9.27	75.50

Table 49 IRRIGATION WATER DEMAND FOR MINOR SCHEMES IN BASIN 218 IN 1990

Unit: 10^6 m^3

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1960	23.68	16.84	1.33	11.31	4.42	7.74	7.91	10.17	2.51	14.94	8.24	27.13	136.23
1961	27.91	19.08	0.47	9.51	7.99	6.89	10.79	6.90	3.26	14.39	15.44	18.57	140.84
1962	17.57	20.15	1.22	10.32	4.71	6.61	9.55	4.39	3.50	17.69	7.49	13.34	116.54
1963	0.33	17.14	2.11	12.04	7.65	8.70	7.59	5.61	4.06	12.62	13.29	9.34	100.58
1964	30.13	21.03	2.15	10.86	4.17	8.02	9.10	8.28	3.81	14.51	5.88	21.46	139.41
1965	22.24	16.07	1.15	11.83	4.02	11.47	10.34	6.23	4.16	16.16	18.88	18.68	141.23
1966	24.46	17.72	1.78	9.10	6.18	5.54	9.21	4.89	4.04	13.17	7.70	11.56	113.35
1967	15.23	16.45	1.35	10.32	4.37	7.23	8.31	9.45	3.73	10.23	12.65	24.57	123.89
1968	24.24	21.22	1.89	11.27	4.56	8.53	9.66	7.02	3.93	13.96	11.36	22.01	140.26
1969	28.24	18.79	1.10	12.08	3.39	7.29	7.80	3.45	3.64	19.34	2.44	12.34	119.89
1970	25.24	21.22	2.27	11.04	5.05	6.89	12.09	6.39	3.67	7.97	11.79	17.46	131.08
1971	25.91	17.72	2.27	11.81	2.16	7.29	9.83	6.00	3.39	12.37	7.70	7.69	114.35
1972	19.12	19.87	2.18	11.87	6.33	8.82	9.44	6.95	3.68	22.89	10.82	18.46	140.22
1973	30.02	21.81	2.24	9.39	5.05	5.26	7.12	6.73	3.18	15.37	3.08	7.89	117.13
1974	17.46	7.99	1.84	11.44	8.82	8.14	13.05	4.22	3.53	10.72	10.28	20.68	117.97
1975	24.24	16.45	1.51	12.12	6.03	6.84	10.17	6.00	3.23	14.57	9.96	8.34	119.48
1976	16.12	19.47	2.22	11.87	4.61	7.57	10.62	4.28	3.95	23.56	9.53	14.01	127.83
1977	13.34	10.72	2.06	11.67	9.70	3.33	11.41	9.96	4.47	13.05	12.22	13.01	114.54
1978	27.13	20.54	2.13	11.23	5.54	7.63	13.56	7.34	3.80	14.82	5.34	20.35	139.40
1979	29.80	20.64	1.67	11.04	6.42	1.92	3.67	9.84	3.55	9.19	3.30	25.91	126.95
AVERAGE	22.12	18.04	1.74	11.11	5.56	7.09	9.57	6.76	3.66	14.58	9.37	16.65	126.16

Table 50 IRRIGATION WATER DEMAND FOR MINOR SCHEMES IN BASIN 219 IN 1990

Unit: 10^6 m^3

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1960	7.68	5.47	0.43	4.39	1.71	3.00	3.07	3.30	0.81	4.85	2.67	8.80	46.20
1961	9.05	6.19	0.15	3.69	3.10	2.68	4.19	2.11	1.06	4.67	5.01	6.02	47.93
1962	5.70	6.54	0.40	4.00	1.83	2.57	3.71	1.42	1.13	5.74	2.43	4.33	39.80
1963	0.11	5.56	0.69	4.67	2.97	3.38	2.98	1.82	1.32	4.09	4.31	3.03	34.03
1964	9.78	6.82	0.70	4.21	1.62	3.11	3.53	2.69	1.24	4.71	1.91	6.96	47.27
1965	7.21	5.21	0.37	4.59	1.56	4.45	4.01	2.02	1.35	5.24	6.13	6.06	48.22
1966	7.94	5.75	0.58	3.53	2.40	2.15	3.57	1.59	1.31	4.27	2.50	3.75	39.33
1967	4.94	5.34	0.44	4.00	1.69	2.81	3.22	3.07	1.21	3.32	4.10	7.97	42.12
1968	7.86	6.89	0.61	4.37	1.77	3.31	3.75	2.47	1.28	4.53	3.69	7.14	47.67
1969	9.16	6.10	0.36	4.69	1.31	2.83	3.03	1.12	1.18	6.28	0.79	4.00	40.04
1970	8.19	6.89	0.73	4.29	1.96	2.68	4.69	2.07	1.19	2.59	3.82	5.66	44.76
1971	8.40	5.75	0.73	4.56	0.84	2.83	3.82	1.95	1.10	4.01	2.50	2.56	39.08
1972	6.20	6.38	0.71	4.61	2.45	3.42	3.66	2.25	1.19	7.43	3.51	5.99	47.81
1973	9.74	7.07	0.73	3.64	1.96	2.04	2.76	2.18	1.03	4.99	1.00	2.56	39.71
1974	5.66	2.59	0.53	4.44	3.42	3.16	5.07	1.37	1.14	3.48	3.34	6.71	40.91
1975	7.86	5.34	0.49	4.70	2.34	2.65	3.95	1.95	1.05	4.73	3.23	2.71	41.00
1976	5.23	6.32	0.72	4.61	1.79	2.94	4.12	1.39	1.28	7.65	3.09	4.55	43.68
1977	4.33	3.48	0.67	4.53	3.77	1.29	4.43	3.10	1.45	4.23	3.96	4.22	39.46
1978	8.80	6.66	0.69	4.36	2.15	2.96	5.26	2.38	1.23	4.81	1.73	6.60	47.64
1979	9.67	6.70	0.54	4.29	2.49	0.75	1.43	3.19	1.15	2.98	1.07	8.40	42.65
AVERAGE	7.18	5.85	0.56	4.31	2.16	2.75	3.71	2.17	1.19	4.73	3.04	5.40	43.05

Table 51 IRRIGATION WATER DEMAND FOR MINOR SCHEMES IN BASIN 220 IN 1990

Unit: 10^6 m^3

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1960	7.06	5.02	0.40	3.17	1.24	2.17	2.22	3.03	0.75	4.45	2.46	8.08	40.04
1961	8.31	5.69	0.14	2.67	2.24	1.93	3.02	1.94	0.98	4.29	4.60	5.53	41.34
1962	5.23	6.00	0.36	2.89	1.32	1.85	2.88	1.31	1.04	5.27	2.23	3.98	34.17
1963	0.10	5.11	0.63	3.37	2.14	2.44	2.15	1.67	1.21	3.76	3.96	2.78	29.33
1964	8.98	6.27	0.64	3.04	1.17	2.25	2.55	2.47	1.14	4.32	1.75	6.39	40.97
1965	6.63	4.79	0.34	3.32	1.13	3.21	2.90	1.86	1.24	4.82	5.63	5.57	41.41
1966	7.29	5.28	0.53	2.55	1.73	1.55	2.58	1.46	1.20	3.92	2.30	3.45	33.84
1967	4.54	4.90	0.40	2.89	1.22	2.03	2.33	2.82	1.11	3.05	3.77	7.32	36.88
1968	7.22	6.32	0.56	3.16	1.28	2.39	2.71	2.27	1.17	4.18	3.38	6.56	41.19
1969	8.41	5.60	0.33	3.39	0.95	2.04	2.19	1.03	1.08	5.74	0.73	3.68	35.18
1970	7.52	6.32	0.67	3.09	1.42	1.93	3.39	1.90	1.09	2.37	3.51	5.20	38.44
1971	7.72	5.28	0.67	3.31	0.61	2.04	2.76	1.79	1.01	3.69	2.30	2.35	33.52
1972	5.70	5.86	0.65	3.33	1.77	2.47	2.64	2.07	1.10	6.82	3.22	5.50	41.13
1973	8.94	6.50	0.67	2.63	1.42	1.47	2.00	2.00	0.95	4.58	0.92	2.35	34.42
1974	5.20	2.38	0.49	3.21	2.47	2.28	3.66	1.26	1.05	3.19	3.06	6.16	34.42
1975	7.22	4.90	0.45	3.40	1.69	1.92	2.85	1.70	0.96	4.34	2.97	2.48	34.98
1976	4.80	5.80	0.66	3.33	1.29	2.12	2.98	1.28	1.18	7.02	2.84	4.17	37.47
1977	3.98	3.19	0.61	3.27	2.72	0.93	3.20	2.85	1.33	3.89	3.64	3.88	33.49
1978	8.08	6.12	0.63	3.15	1.55	2.14	3.80	2.19	1.13	4.42	1.59	6.06	40.86
1979	8.88	6.15	0.50	3.09	1.80	0.54	1.03	2.93	1.06	2.74	0.98	7.72	37.42
AVERAGE	6.59	5.37	0.52	3.11	1.56	1.99	2.68	2.00	1.09	4.34	2.79	4.96	37.00

Table 52 IRRIGATION WATER DEMAND FOR MINOR SCHEMES IN BASIN 221 IN 1990

Unit: 10^6 m^3

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1960	7.09	2.11	5.91	2.35	2.54	2.77	0.	0.	0.58	2.02	0.18	7.91	33.45
1961	8.91	2.26	4.89	0.90	4.99	0.74	1.15	0.	5.39	0.	4.63	2.93	36.79
1962	2.75	2.99	5.33	0.	3.55	6.19	3.88	0.	5.16	2.12	2.99	3.05	38.01
1963	0.	2.87	4.65	3.43	2.86	5.86	2.03	0.	4.58	0.	7.97	7.38	41.64
1964	14.06	4.07	4.81	1.18	0.51	2.54	0.	0.	4.00	3.24	0.	7.33	41.74
1965	0.	0.56	3.69	1.42	1.57	5.54	2.77	0.	4.56	0.	4.98	6.15	31.24
1966	9.26	3.78	4.89	0.30	4.85	2.31	0.69	0.	5.18	0.	0.88	0.70	32.84
1967	4.16	1.20	4.91	1.18	0.46	4.99	2.38	0.	4.73	0.34	0.	11.13	35.49
1968	9.49	0.70	4.67	5.07	2.68	8.31	1.82	0.	4.58	0.	8.03	5.80	51.15
1969	10.72	1.41	4.79	2.51	0.	2.45	0.	0.	6.47	0.	0.	5.10	33.44
1970	5.10	4.60	5.50	0.	2.12	4.29	1.64	0.	2.13	0.	1.17	4.04	30.60
1971	8.09	1.00	6.40	3.03	3.14	6.19	0.60	0.	3.24	0.	2.64	0.	34.31
1972	1.29	0.76	4.76	4.63	4.43	6.32	2.68	0.	5.67	3.19	6.80	10.72	51.25
1973	13.30	4.86	6.18	0.	3.09	4.25	0.76	0.	3.22	3.54	2.70	6.91	48.82
1974	7.91	3.16	6.43	7.11	10.48	9.42	3.44	0.	4.90	1.16	7.97	9.32	71.29
1975	11.02	2.84	5.67	4.43	2.54	5.35	1.15	0.	3.42	4.91	0.	2.64	43.97
1976	8.26	2.58	5.60	5.83	6.14	6.97	3.16	0.	7.39	2.83	8.38	6.45	63.59
1977	1.82	0.	6.47	7.39	9.60	6.37	4.22	0.	7.78	4.36	1.58	6.56	56.14
1978	13.48	3.75	5.72	1.14	2.82	3.23	1.94	0.	4.71	1.26	3.16	12.19	53.40
1979	12.60	1.99	6.03	2.47	6.19	6.83	2.61	0.	6.25	4.36	5.27	10.84	65.43
AVERAGE	7.47	2.37	5.36	2.72	3.73	5.05	1.85	0.	4.73	1.67	3.47	6.36	44.73

Table 53 IRRIGATION WATER DEMAND FOR MINOR SCHEMES IN BASIN 222 IN 1990

Unit: 10^6 m^3

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1960	5.30	1.58	3.75	1.49	1.61	1.76	0.	0.	0.43	1.51	0.13	5.92	23.47
1961	6.66	1.69	3.10	0.57	3.16	0.47	0.73	0.	4.03	0.	3.46	2.19	26.07
1962	2.06	2.23	3.38	0.	2.25	3.92	2.46	0.	3.86	1.59	2.23	2.28	26.27
1963	0.	2.15	2.95	2.17	1.81	3.72	1.29	0.	3.42	0.	5.96	5.52	28.99
1964	10.52	3.05	3.05	0.75	0.32	1.61	0.	0.	2.99	2.42	0.	5.48	30.18
1965	0.	0.42	2.34	0.90	1.00	3.51	1.76	0.	3.41	0.	3.72	4.00	21.66
1966	6.92	2.83	3.10	0.19	3.67	1.46	0.44	0.	3.87	0.	0.66	0.53	23.08
1967	3.11	0.90	3.11	0.75	0.29	3.16	1.51	0.	3.53	0.26	0.	8.33	24.95
1968	7.10	0.53	2.96	3.21	1.70	5.27	1.16	0.	3.42	0.	6.00	4.34	35.69
1969	8.02	1.05	3.04	1.59	0.	1.55	0.	0.	4.84	0.	0.	3.81	23.90
1970	3.81	3.44	3.49	0.	1.35	2.72	1.04	0.	1.59	0.	0.88	3.02	21.34
1971	6.05	0.74	4.06	1.92	1.99	3.92	0.38	0.	2.43	0.	1.97	0.	23.46
1972	0.96	0.57	3.02	2.93	2.81	4.01	1.70	0.	4.24	2.38	5.08	8.02	35.73
1973	9.95	3.64	3.92	0.	1.96	2.69	0.48	0.	2.41	2.65	2.02	5.17	34.88
1974	5.92	2.37	4.08	4.51	6.64	5.97	2.18	0.	3.66	0.86	5.96	6.97	49.12
1975	8.24	2.13	3.60	2.81	1.61	3.40	0.73	0.	2.55	3.67	0.	1.97	30.70
1976	6.18	1.93	3.55	3.69	3.09	4.42	2.01	0.	5.53	2.12	6.27	4.82	44.40
1977	1.36	0.	4.10	4.68	6.09	4.04	2.68	0.	5.82	3.26	1.18	4.91	38.11
1978	10.08	2.80	3.63	0.73	1.79	2.05	1.23	0.	3.52	0.94	2.37	9.11	38.24
1979	9.42	1.49	3.82	1.56	3.92	4.33	1.65	0.	4.68	3.26	3.94	8.11	46.19
AVERAGE	5.58	1.78	3.40	1.72	2.36	3.20	1.17	0.	3.51	1.25	2.59	4.75	31.32

Table 54 IRRIGATION WATER DEMAND FOR MINOR SCHEMES IN BASIN 223 IN 1990

Unit: 10^6 m^3

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1960	2.90	0.88	1.55	0.62	0.67	0.73	0.	0.	0.24	0.83	0.07	3.24	11.70
1961	3.65	0.92	1.29	0.24	1.31	0.19	0.30	0.	2.21	0.	1.89	1.20	13.20
1962	1.13	1.22	1.40	0.	0.93	1.63	1.02	0.	2.11	0.87	1.22	1.25	12.78
1963	0.	1.18	1.22	0.90	0.75	1.54	0.53	0.	1.87	0.	3.26	3.02	14.28
1964	5.76	1.67	1.26	0.31	0.13	0.67	0.	0.	1.64	1.33	0.	3.00	15.76
1965	0.	0.23	0.97	0.37	0.41	1.46	0.73	0.	1.86	0.	2.04	2.52	10.59
1966	3.79	1.55	1.29	0.08	1.27	0.61	0.18	0.	2.12	0.	0.36	0.29	11.53
1967	1.70	0.49	1.29	0.31	0.12	1.31	0.62	0.	1.93	0.14	0.	4.56	12.48
1968	3.89	0.29	1.23	1.33	0.70	2.18	0.48	0.	1.87	0.	3.29	2.37	17.63
1969	4.39	0.58	1.26	0.66	0.	0.64	0.	0.	2.65	0.	0.	2.09	12.26
1970	2.09	1.88	1.45	0.	0.56	1.13	0.43	0.	0.87	0.	0.48	1.65	10.54
1971	3.31	0.41	1.68	0.79	0.82	1.63	0.16	0.	1.33	0.	1.08	0.	11.21
1972	0.53	0.31	1.25	1.22	1.16	1.66	0.70	0.	2.32	1.30	2.78	4.39	17.63
1973	5.44	1.99	1.62	0.	0.81	1.12	0.20	0.	1.32	1.45	1.10	2.83	17.89
1974	3.24	1.30	1.69	1.87	2.75	2.47	0.90	0.	2.00	0.47	3.26	3.81	23.77
1975	4.51	1.16	1.49	1.16	0.67	1.41	0.30	0.	1.40	2.01	0.	1.08	15.19
1976	3.38	1.06	1.47	1.53	1.61	1.83	0.83	0.	3.02	1.16	3.43	2.64	21.97
1977	0.74	0.	1.70	1.94	2.52	1.67	1.11	0.	3.18	1.78	0.65	2.69	17.99
1978	5.52	1.53	1.50	0.30	0.74	0.85	0.51	0.	1.93	0.51	1.30	4.99	19.68
1979	5.16	0.82	1.58	0.65	1.63	1.79	0.69	0.	2.56	1.78	2.16	4.44	23.24
AVERAGE	3.06	0.97	1.41	0.71	0.98	1.33	0.49	0.	1.92	0.68	1.42	2.60	15.56

Table 55 IRRIGATION WATER DEMAND FOR MINOR SCHEMES IN BASIN 224 IN 1990

Unit: 10^6 m^3

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1960	23.75	17.90	9.55	1.56	5.17	6.19	5.96	7.39	1.70	15.01	2.96	21.84	118.96
1961	25.18	15.54	7.52	1.54	6.11	4.89	6.97	7.52	2.27	14.04	13.40	13.60	118.07
1962	12.29	16.23	7.99	1.20	4.29	3.66	9.44	4.08	1.83	17.28	12.47	12.53	103.30
1963	10.62	15.27	6.62	1.59	4.90	7.32	7.83	7.81	2.16	17.28	11.34	16.83	109.57
1964	29.24	16.02	4.18	1.35	4.64	4.24	5.40	8.11	1.48	14.88	10.51	18.50	112.53
1965	23.03	23.39	3.40	1.44	4.67	6.23	9.26	4.30	1.72	13.43	10.82	18.97	120.66
1966	27.56	24.46	5.31	1.44	6.19	5.03	5.85	6.17	1.75	14.13	16.20	15.99	130.08
1967	15.87	17.90	6.92	1.60	5.91	5.98	7.76	7.45	1.31	15.36	11.44	17.54	115.03
1968	17.06	23.15	6.44	1.28	4.41	4.64	5.96	6.76	1.61	12.51	12.68	20.05	116.57
1969	22.08	22.67	5.61	1.58	5.02	4.53	8.13	4.17	2.63	16.58	9.47	17.78	120.25
1970	20.29	24.22	6.80	1.43	4.39	5.11	8.43	6.47	1.58	13.34	9.16	16.71	117.94
1971	22.79	5.97	9.78	1.51	5.86	6.52	8.54	2.57	2.18	13.56	2.34	14.20	95.82
1972	20.40	19.69	6.44	1.21	6.11	4.45	8.96	6.11	2.18	17.50	11.03	25.66	129.73
1973	29.24	27.21	8.41	1.34	5.20	3.69	7.42	5.68	0.09	16.63	8.96	18.62	132.47
1974	23.63	11.93	7.88	1.36	4.87	4.78	8.21	6.14	0.72	15.23	10.82	18.62	114.17
1975	18.62	17.78	7.64	1.57	3.86	5.11	7.19	5.94	1.42	17.06	12.16	12.41	110.76
1976	19.93	24.10	6.66	1.56	6.09	6.23	5.55	6.14	2.45	13.43	9.27	23.87	125.90
1977	17.66	11.81	6.74	1.38	4.87	3.62	5.88	6.27	2.39	15.14	8.03	16.71	100.50
1978	23.75	20.05	11.16	1.44	4.72	5.87	6.11	8.11	0.89	15.44	13.92	18.97	130.43
1979	24.46	21.84	3.70	1.55	5.25	4.53	6.18	7.06	1.28	13.04	6.17	16.71	111.75
AVERAGE	21.37	18.53	6.94	1.45	5.16	5.13	7.25	6.21	1.68	15.04	10.16	17.80	116.72

Table 56 IRRIGATION WATER DEMAND FOR MINOR SCHEMES IN BASIN 226 IN 1990

Unit: 10^6 m^3

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1960	2.67	0.79	1.51	0.60	0.65	0.71	0.	0.	0.22	0.76	0.07	2.98	10.95
1961	3.36	0.85	1.25	0.23	1.27	0.19	0.29	0.	2.03	0.	1.74	1.10	12.32
1962	1.04	1.13	1.36	0.	0.91	1.56	0.99	0.	1.94	0.80	1.13	1.15	12.01
1963	0.	1.08	1.19	0.87	0.73	1.50	0.52	0.	1.72	0.	3.00	2.78	13.40
1964	5.30	1.53	1.23	0.30	0.13	0.65	0.	0.	1.51	1.22	0.	2.76	14.62
1965	0.	0.21	0.94	0.36	0.40	1.41	0.71	0.	1.72	0.	1.88	2.32	9.95
1966	3.49	1.42	1.25	0.06	1.24	0.59	0.18	0.	1.95	0.	0.33	0.26	10.79
1967	1.57	0.45	1.25	0.30	0.12	1.27	0.61	0.	1.78	0.13	0.	4.19	11.68
1968	3.58	0.26	1.19	1.29	0.68	2.12	0.47	0.	1.72	0.	3.02	2.19	16.53
1969	4.04	0.53	1.22	0.64	0.	0.62	0.	0.	2.44	0.	0.	1.92	11.41
1970	1.92	1.73	1.40	0.	0.54	1.10	0.42	0.	0.80	0.	0.44	1.52	9.88
1971	3.05	0.38	1.63	0.77	0.80	1.58	0.15	0.	1.22	0.	0.99	0.	10.57
1972	0.49	0.29	1.21	1.18	1.13	1.61	0.68	0.	2.14	1.20	2.56	4.04	16.53
1973	5.01	1.83	1.58	0.	0.79	1.08	0.19	0.	1.21	1.33	1.02	2.60	16.66
1974	2.98	1.19	1.64	1.81	2.67	2.40	0.88	0.	1.85	0.44	3.00	3.51	22.37
1975	4.15	1.07	1.45	1.13	0.65	1.37	0.29	0.	1.29	1.85	0.	0.99	14.24
1976	3.11	0.97	1.43	1.49	1.57	1.78	0.81	0.	2.78	1.07	3.16	2.43	20.59
1977	0.68	0.	1.65	1.89	2.45	1.63	1.08	0.	2.93	1.64	0.60	2.47	17.01
1978	5.08	1.41	1.46	0.29	0.72	0.82	0.49	0.	1.77	0.47	1.19	4.59	18.31
1979	4.75	0.75	1.54	0.63	1.58	1.74	0.67	0.	2.36	1.64	1.99	4.08	21.72
AVERAGE	2.81	0.89	1.37	0.69	0.95	1.29	0.47	0.	1.77	0.63	1.31	2.39	14.58

Table 57 IRRIGATION WATER DEMAND FOR MINOR SCHEMES IN BASIN 227 IN 1990

Unit: 10^6 m^3

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1960	0.67	0.	0.24	0.57	0.58	0.96	0.44	0.05	0.53	0.24	0.21	0.57	5.06
1961	0.86	0.05	0.20	0.72	0.83	0.89	0.75	0.10	0.83	0.24	0.62	0.34	6.24
1962	0.	0.42	0.15	0.37	0.27	0.82	1.11	0.02	0.60	0.37	0.42	0.50	5.04
1963	0.	0.	0.18	1.26	1.43	1.28	0.86	0.02	0.60	0.10	0.45	0.67	6.84
1964	0.75	0.20	0.20	0.27	0.50	0.73	0.	0.07	0.36	0.	0.	0.56	3.64
1965	0.16	0.00	0.14	0.35	0.07	1.17	1.13	0.05	0.63	0.	0.12	0.27	4.08
1966	0.57	0.27	0.18	0.59	0.95	0.88	0.76	0.	0.69	0.	0.14	0.	5.03
1967	0.23	0.	0.20	0.63	0.60	0.57	0.81	0.11	0.47	0.	0.27	0.13	4.02
1968	0.	0.00	0.13	0.39	0.15	0.24	0.43	0.02	0.49	0.	0.70	0.46	3.01
1969	0.59	0.00	0.20	0.90	0.39	0.78	0.73	0.	0.76	0.	0.22	0.53	5.09
1970	0.15	0.34	0.17	0.74	0.32	0.81	0.96	0.05	0.51	0.06	0.22	0.39	4.72
1971	0.61	0.	0.21	1.03	0.63	1.17	1.25	0.	0.43	0.	0.33	0.82	6.48
1972	0.	0.15	0.19	0.19	0.81	0.84	1.26	0.10	0.58	0.04	0.	0.04	4.20
1973	1.38	0.45	0.18	0.12	0.35	0.21	0.56	0.	0.29	0.16	0.42	0.52	4.64
1974	0.02	0.	0.19	0.58	0.55	0.89	0.47	0.02	0.23	0.22	0.41	0.32	3.90
1975	0.	0.28	0.20	0.89	0.11	0.73	0.52	0.05	0.43	0.22	0.32	0.60	4.86
1976	0.	0.06	0.22	0.79	0.52	0.89	1.03	0.05	0.84	0.	0.42	0.56	5.37
1977	0.19	0.34	0.15	0.76	0.49	0.52	0.75	0.09	0.72	0.06	0.	0.11	4.20
1978	0.	0.40	0.21	0.83	0.15	0.68	0.50	0.06	0.55	0.31	0.39	0.55	4.64
1979	1.34	0.12	0.19	0.71	0.96	0.43	0.45	0.04	0.41	0.	0.	0.46	5.13
AVERAGE	0.38	0.15	0.19	0.64	0.53	0.77	0.74	0.05	0.54	0.10	0.28	0.42	4.78

Table 58 IRRIGATION WATER DEMAND FOR MINOR SCHEMES IN BASIN 228 IN 1990

Unit: 10^6 m^3

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1960	0.88	0.	0.32	0.75	0.77	1.27	0.58	0.07	0.70	0.31	0.27	0.76	6.69
1961	1.14	0.07	0.26	0.95	1.09	1.18	0.99	0.14	0.83	0.34	0.82	0.45	8.26
1962	0.	0.55	0.20	0.49	0.35	1.09	1.47	0.02	0.79	0.49	0.56	0.66	6.67
1963	0.	0.	0.24	1.67	1.89	1.70	1.13	0.03	0.79	0.13	0.59	0.88	9.05
1964	0.99	0.27	0.26	0.36	0.67	0.96	0.	0.10	0.48	0.	0.	0.74	4.81
1965	0.21	0.00	0.18	0.46	0.09	1.55	1.49	0.06	0.84	0.	0.16	0.35	5.39
1966	0.76	0.35	0.24	0.79	1.26	1.16	1.00	0.	0.91	0.	0.19	0.	6.66
1967	0.30	0.	0.26	0.84	0.79	0.76	1.07	0.15	0.62	0.	0.36	0.17	5.33
1968	0.	0.00	0.17	0.52	0.19	0.31	0.57	0.03	0.65	0.	0.92	0.61	3.99
1969	0.78	0.00	0.26	1.20	0.51	1.03	0.96	0.	1.01	0.	0.28	0.71	6.74
1970	0.20	0.45	0.23	0.98	0.43	1.07	1.27	0.07	0.68	0.08	0.28	0.51	6.25
1971	0.81	0.	0.28	1.37	0.83	1.55	1.66	0.	0.57	0.	0.43	1.08	8.57
1972	0.	0.20	0.25	0.25	1.07	1.11	1.67	0.13	0.77	0.06	0.	0.05	5.56
1973	1.83	0.59	0.24	0.16	0.47	0.27	0.74	0.	0.38	0.21	0.56	0.69	6.14
1974	0.03	0.	0.25	0.77	0.73	1.18	0.62	0.02	0.30	0.30	0.54	0.42	5.16
1975	0.	0.37	0.27	1.18	0.14	0.96	0.69	0.07	0.57	0.29	0.42	0.80	5.77
1976	0.	0.08	0.29	1.05	0.69	1.18	1.36	0.06	1.11	0.	0.56	0.74	7.11
1977	0.25	0.46	0.20	1.01	0.65	0.69	1.00	0.13	0.95	0.08	0.	0.15	5.56
1978	0.	0.53	0.27	1.10	0.19	0.90	0.66	0.09	0.73	0.42	0.52	0.73	6.14
1979	1.78	0.16	0.26	0.94	1.27	0.57	0.60	0.05	0.54	0.	0.	0.61	6.79
AVERAGE	0.50	0.20	0.25	0.84	0.70	1.02	0.98	0.06	0.71	0.14	0.37	0.55	6.33

Table 59 IRRIGATION WATER DEMAND FOR MINOR SCHEMES IN BASIN 229 IN 1990

Unit: 10^6 m^3

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1960	0.53	0.	0.19	0.45	0.46	0.76	0.35	0.04	0.42	0.19	0.16	0.45	4.00
1961	0.68	0.04	0.16	0.57	0.65	0.70	0.59	0.08	0.50	0.20	0.49	0.27	4.94
1962	0.	0.33	0.12	0.30	0.21	0.65	0.88	0.01	0.47	0.29	0.33	0.39	3.99
1963	0.	0.	0.14	1.00	1.13	1.02	0.68	0.02	0.47	0.08	0.35	0.53	5.41
1964	0.59	0.16	0.16	0.22	0.40	0.58	0.	0.06	0.28	0.	0.	0.44	2.88
1965	0.12	0.00	0.11	0.28	0.05	0.93	0.89	0.04	0.50	0.	0.09	0.21	3.23
1966	0.45	0.21	0.15	0.47	0.75	0.69	0.60	0.	0.55	0.	0.11	0.	3.98
1967	0.18	0.	0.16	0.50	0.47	0.45	0.64	0.09	0.37	0.	0.22	0.10	3.19
1968	0.	0.00	0.10	0.31	0.11	0.19	0.34	0.02	0.39	0.	0.55	0.36	2.38
1969	0.46	0.00	0.16	0.72	0.31	0.62	0.57	0.	0.60	0.	0.17	0.42	4.03
1970	0.12	0.27	0.14	0.58	0.26	0.64	0.76	0.04	0.41	0.05	0.17	0.31	3.74
1971	0.48	0.	0.17	0.82	0.50	0.93	0.99	0.	0.34	0.	0.26	0.65	5.13
1972	0.	0.12	0.15	0.15	0.64	0.66	1.00	0.08	0.46	0.04	0.	0.03	3.32
1973	1.09	0.36	0.15	0.10	0.28	0.16	0.44	0.	0.23	0.13	0.33	0.41	3.67
1974	0.02	0.	0.15	0.46	0.44	0.70	0.37	0.01	0.18	0.18	0.32	0.25	3.09
1975	0.	0.22	0.16	0.70	0.09	0.58	0.42	0.04	0.34	0.17	0.25	0.48	3.45
1976	0.	0.05	0.17	0.63	0.41	0.70	0.82	0.04	0.66	0.	0.33	0.44	4.25
1977	0.15	0.27	0.12	0.60	0.39	0.41	0.40	0.07	0.57	0.05	0.	0.09	3.32
1978	0.	0.32	0.16	0.66	0.11	0.54	0.39	0.05	0.43	0.25	0.31	0.43	3.67
1979	1.06	0.10	0.15	0.56	0.76	0.34	0.36	0.03	0.33	0.	0.	0.36	4.06
AVERAGE	0.30	0.12	0.15	0.50	0.42	0.61	0.58	0.04	0.43	0.08	0.22	0.33	3.79

Table 60 IRRIGATION WATER DEMAND FOR MINOR SCHEMES IN BASIN 230 IN 1990

Unit: 10^6 m^3

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1960	3.65	0.26	0.89	4.04	3.83	3.50	2.88	0.51	2.56	1.75	1.11	3.32	28.29
1961	3.80	0.84	0.95	3.17	4.65	2.34	3.22	0.24	3.44	1.44	5.24	2.47	31.81
1962	0.75	2.07	0.78	3.82	3.14	3.11	5.31	0.15	2.76	0.57	0.59	1.59	24.64
1963	0.	0.71	0.82	5.15	4.03	5.48	2.75	0.38	3.53	2.80	3.55	3.11	32.30
1964	2.49	1.95	0.94	3.12	3.73	4.58	1.80	0.	3.08	1.40	0.46	2.80	26.37
1965	0.	0.51	0.72	2.81	3.81	3.62	4.25	0.34	3.57	1.28	2.19	1.88	25.00
1966	3.73	1.34	0.73	2.32	5.87	4.11	2.46	0.06	3.44	1.15	1.54	0.31	27.06
1967	1.34	0.87	0.76	3.35	3.56	3.42	3.38	0.20	3.29	2.11	2.29	2.06	26.62
1968	2.73	1.31	0.83	3.62	4.63	3.21	2.82	0.14	3.31	1.19	2.88	3.01	29.68
1969	4.29	1.66	1.01	3.19	2.32	4.42	3.31	0.13	3.28	0.	0.	2.47	26.08
1970	1.98	1.29	0.94	2.44	4.01	3.57	2.77	0.09	3.03	0.	2.01	3.14	25.26
1971	1.88	0.62	1.01	3.45	4.75	5.73	2.82	0.05	3.52	0.01	2.13	1.18	27.15
1972	1.77	1.05	0.87	3.90	5.83	3.37	4.79	0.50	2.72	1.91	2.24	3.83	31.99
1973	5.84	2.07	0.82	2.10	3.86	3.03	2.93	0.27	2.88	0.84	1.00	0.10	25.74
1974	1.70	0.44	0.92	4.20	3.06	3.24	4.79	0.27	2.71	1.13	2.16	2.06	26.67
1975	2.49	1.17	0.88	4.61	4.45	3.70	3.45	0.28	2.69	1.04	2.47	2.52	29.74
1976	1.03	1.03	0.99	3.64	5.10	4.32	5.47	0.11	3.89	1.80	3.50	2.75	33.82
1977	1.26	0.	0.86	3.76	5.22	4.32	3.09	0.25	3.55	0.84	1.52	2.37	27.03
1978	3.83	1.34	0.76	4.09	2.39	3.32	3.83	0.36	3.09	1.06	1.85	2.88	26.80
1979	5.22	1.67	0.82	2.98	6.22	2.16	3.58	0.28	2.97	0.17	1.31	3.34	30.71
AVERAGE	2.49	1.11	0.86	3.49	4.18	3.73	3.48	0.23	3.17	1.12	2.00	2.36	28.23

Table 61 IRRIGATION WATER DEMAND FOR MINOR SCHEMES IN BASIN 231 IN 1990

Unit: 10^6 m^3

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1960	0.28	0.02	0.07	0.31	0.29	0.27	0.22	0.04	0.20	0.13	0.08	0.25	2.16
1961	0.29	0.06	0.07	0.24	0.36	0.18	0.25	0.02	0.26	0.11	0.40	0.19	2.43
1962	0.06	0.16	0.06	0.29	0.24	0.24	0.41	0.01	0.21	0.04	0.05	0.12	1.88
1963	0.	0.05	0.06	0.39	0.31	0.42	0.21	0.03	0.27	0.21	0.27	0.24	2.47
1964	0.19	0.15	0.07	0.24	0.29	0.35	0.14	0.	0.24	0.11	0.04	0.21	2.01
1965	0.	0.04	0.06	0.21	0.29	0.28	0.32	0.03	0.27	0.10	0.17	0.14	1.91
1966	0.28	0.10	0.06	0.18	0.45	0.31	0.19	0.00	0.26	0.09	0.12	0.02	2.07
1967	0.10	0.37	0.06	0.26	0.27	0.26	0.26	0.02	0.25	0.14	0.17	0.16	2.03
1968	0.21	0.10	0.06	0.28	0.35	0.25	0.22	0.01	0.25	0.09	0.22	0.23	2.27
1969	0.33	0.13	0.08	0.24	0.18	0.34	0.25	0.01	0.25	0.	0.	0.19	1.99
1970	0.15	0.10	0.07	0.19	0.31	0.27	0.21	0.01	0.23	0.	0.15	0.24	1.93
1971	0.14	0.05	0.08	0.26	0.36	0.44	0.22	0.00	0.27	0.00	0.16	0.09	2.07
1972	0.14	0.08	0.07	0.30	0.38	0.26	0.37	0.04	0.21	0.15	0.17	0.29	2.44
1973	0.45	0.16	0.06	0.16	0.29	0.23	0.22	0.02	0.22	0.06	0.08	0.01	1.97
1974	0.13	0.03	0.07	0.32	0.23	0.25	0.37	0.02	0.21	0.09	0.16	0.16	2.04
1975	0.19	0.09	0.07	0.35	0.34	0.28	0.26	0.02	0.21	0.08	0.19	0.19	2.27
1976	0.08	0.08	0.08	0.28	0.39	0.33	0.42	0.01	0.30	0.14	0.27	0.21	2.57
1977	0.10	0.	0.07	0.29	0.40	0.33	0.24	0.02	0.27	0.06	0.12	0.18	2.06
1978	0.29	0.10	0.06	0.31	0.18	0.25	0.29	0.03	0.24	0.08	0.14	0.22	2.20
1979	0.40	0.13	0.06	0.23	0.47	0.16	0.27	0.02	0.23	0.01	0.10	0.26	2.35
AVERAGE	0.19	0.08	0.07	0.27	0.32	0.28	0.27	0.02	0.24	0.09	0.15	0.18	2.16

Table 62 IRRIGATION WATER DEMAND FOR MINOR SCHEMES IN BASIN 232 IN 1990

Unit: 10^6 m^3

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1960	1.41	0.10	0.34	1.56	1.48	1.35	1.11	0.20	0.99	0.68	0.43	1.28	10.93
1961	1.47	0.32	0.37	1.23	1.80	0.90	1.24	0.09	1.33	0.56	2.03	0.95	12.28
1962	0.29	0.80	0.30	1.47	1.21	1.20	2.05	0.06	1.07	0.22	0.23	0.62	9.52
1963	0.	0.27	0.32	1.99	1.56	2.11	1.06	0.15	1.36	1.08	1.37	1.20	12.47
1964	0.96	0.75	0.36	1.21	1.44	1.77	0.70	0.	1.19	0.54	0.18	1.08	10.18
1965	0.	0.20	0.28	1.08	1.47	1.40	1.64	0.13	1.38	0.50	0.84	0.72	9.65
1966	1.44	0.52	0.28	0.90	2.27	1.59	0.95	0.02	1.33	0.44	0.60	0.12	10.45
1967	0.52	0.34	0.29	1.29	1.37	1.32	1.30	0.08	1.27	0.81	0.88	0.79	10.28
1968	1.05	0.51	0.32	1.40	1.79	1.24	1.09	0.06	1.28	0.46	1.11	1.18	11.46
1969	1.66	0.64	0.39	1.23	0.89	1.71	1.28	0.05	1.27	0.	0.	0.95	10.07
1970	0.76	0.50	0.36	0.94	1.55	1.38	1.07	0.04	1.17	0.	0.77	1.21	9.75
1971	0.72	0.24	0.39	1.33	1.83	2.21	1.09	0.02	1.36	0.01	0.82	0.46	10.48
1972	0.68	0.41	0.34	1.51	1.94	1.30	1.85	0.19	1.05	0.74	0.86	1.48	12.35
1973	2.25	0.80	0.32	0.81	1.49	1.17	1.13	0.10	1.11	0.32	0.39	0.04	9.94
1974	0.66	0.17	0.35	1.62	1.18	1.25	1.85	0.10	1.04	0.44	0.83	0.79	10.30
1975	0.96	0.45	0.33	1.78	1.72	1.43	1.33	0.11	1.04	0.40	0.95	0.97	11.48
1976	0.40	0.40	0.38	1.41	1.97	1.67	2.11	0.04	1.50	0.69	1.35	1.06	12.98
1977	0.49	0.	0.33	1.45	2.02	1.67	1.19	0.10	1.37	0.32	0.59	0.91	10.44
1978	1.48	0.52	0.29	1.58	0.92	1.28	1.48	0.14	1.19	0.41	0.71	1.11	11.12
1979	2.02	0.65	0.31	1.15	2.40	0.83	1.38	0.11	1.15	0.07	0.51	1.29	11.86
AVERAGE	0.96	0.43	0.33	1.35	1.62	1.44	1.35	0.09	1.22	0.43	0.77	0.91	10.90

Table 63 IRRIGATION WATER DEMAND FOR MINOR SCHEMES IN BASIN 236 IN 1990

Unit: 10^6 m^3

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1960	1.01	0.43	0.55	1.73	1.53	1.71	1.03	0.24	1.73	0.85	0.41	0.66	12.07
1961	1.33	0.17	0.49	1.47	2.20	2.27	2.22	0.08	1.84	0.	0.63	0.52	13.22
1962	0.03	0.82	0.35	1.76	2.12	1.75	1.88	0.	1.85	0.83	0.02	1.69	12.91
1963	0.	0.14	0.52	1.99	1.54	2.19	1.90	0.01	1.69	1.19	0.44	1.22	12.83
1964	1.43	0.87	0.54	1.29	1.24	2.90	0.86	0.16	1.76	0.30	0.02	3.90	15.27
1965	0.86	0.33	0.66	2.52	1.88	3.18	2.68	0.23	1.81	0.33	1.70	1.31	17.29
1966	1.05	0.	0.49	1.67	3.27	1.00	1.50	0.	1.78	0.13	1.03	1.17	13.09
1967	0.	0.75	0.43	1.33	1.36	1.84	1.32	0.10	1.83	0.97	0.16	1.43	11.50
1968	1.10	0.41	0.53	2.05	1.37	2.08	1.62	0.01	1.98	0.74	2.87	0.21	14.97
1969	1.82	0.45	0.38	1.69	0.78	2.82	2.86	0.	2.19	0.	0.63	0.05	13.67
1970	1.59	0.79	0.44	1.06	0.48	1.19	0.75	0.12	1.51	0.63	0.72	1.45	10.72
1971	0.02	0.	0.59	2.38	1.69	2.87	2.49	0.	1.74	0.50	0.38	0.24	12.91
1972	0.26	0.33	0.59	2.71	2.46	2.68	1.78	0.11	1.63	1.59	0.33	1.50	15.97
1973	2.73	0.67	0.37	1.32	1.68	0.61	1.25	0.07	1.39	0.89	1.68	0.56	13.21
1974	1.43	0.21	0.58	1.59	2.10	1.54	1.73	0.11	1.87	0.24	0.38	1.45	12.73
1975	0.28	0.39	0.46	1.45	2.69	2.08	1.03	0.03	1.57	0.54	1.01	0.33	11.87
1976	0.	0.43	0.41	2.33	1.91	2.54	1.53	0.04	1.82	0.39	1.28	1.50	14.21
1977	0.65	0.	0.37	2.86	2.56	2.52	2.62	0.07	1.81	0.91	0.87	1.68	16.91
1978	1.29	1.03	0.44	1.74	0.76	1.99	1.71	0.25	1.53	0.15	1.01	0.84	12.77
1979	2.33	0.69	0.47	2.04	3.06	0.16	1.33	0.18	1.61	0.45	1.31	1.35	14.97
AVERAGE	0.96	0.45	0.47	1.85	1.83	2.00	1.70	0.09	1.72	0.58	0.85	1.14	13.65

Table 64 IRRIGATION WATER DEMAND FOR MINOR SCHEMES IN BASIN 237 IN 1990

Unit: 10^6 m^3

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1960	0.19	0.08	0.10	0.33	0.29	0.32	0.19	0.05	0.33	0.16	0.12	0.13	2.28
1961	0.25	0.03	0.09	0.28	0.42	0.43	0.42	0.01	0.35	0.	0.12	0.10	2.50
1962	0.01	0.16	0.07	0.33	0.40	0.33	0.36	0.	0.35	0.16	0.00	0.28	2.44
1963	0.	0.03	0.10	0.38	0.29	0.41	0.36	0.00	0.32	0.23	0.08	0.23	2.43
1964	0.27	0.16	0.10	0.24	0.23	0.55	0.16	0.03	0.33	0.06	0.00	0.74	2.89
1965	0.16	0.06	0.09	0.48	0.36	0.60	0.51	0.04	0.34	0.06	0.32	0.25	3.27
1966	0.20	0.	0.09	0.32	0.62	0.17	0.28	0.	0.34	0.03	0.20	0.22	2.48
1967	0.	0.14	0.08	0.25	0.26	0.35	0.25	0.02	0.35	0.18	0.03	0.27	2.18
1968	0.21	0.08	0.10	0.39	0.26	0.39	0.31	0.00	0.37	0.14	0.54	0.04	2.83
1969	0.34	0.08	0.07	0.32	0.15	0.53	0.54	0.	0.41	0.	0.12	0.01	2.59
1970	0.30	0.15	0.08	0.20	0.09	0.23	0.14	0.02	0.29	0.12	0.14	0.27	2.03
1971	0.00	0.	0.11	0.45	0.32	0.54	0.47	0.	0.33	0.09	0.07	0.05	2.44
1972	0.05	0.06	0.11	0.51	0.46	0.51	0.34	0.02	0.31	0.30	0.06	0.28	3.02
1973	0.52	0.13	0.07	0.25	0.32	0.12	0.24	0.01	0.26	0.17	0.32	0.11	2.50
1974	0.27	0.04	0.11	0.30	0.40	0.29	0.33	0.02	0.26	0.05	0.07	0.27	2.41
1975	0.05	0.07	0.09	0.27	0.51	0.39	0.19	0.00	0.30	0.10	0.19	0.06	2.25
1976	0.	0.08	0.08	0.44	0.36	0.48	0.29	0.01	0.34	0.07	0.24	0.28	2.69
1977	0.12	0.	0.07	0.54	0.48	0.48	0.50	0.01	0.34	0.17	0.17	0.32	3.20
1978	0.24	0.20	0.08	0.33	0.14	0.36	0.32	0.05	0.29	0.03	0.19	0.16	2.42
1979	0.44	0.13	0.09	0.39	0.58	0.03	0.25	0.03	0.30	0.09	0.25	0.25	2.83
AVERAGE	0.18	0.08	0.09	0.35	0.35	0.38	0.32	0.02	0.33	0.11	0.16	0.22	2.58

Table 65 IRRIGATION WATER DEMAND FOR MINOR SCHEMES IN BASIN 239 IN 1990

Unit: 10^6 m^3

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1960	0.	0.03	0.48	0.19	1.20	1.19	0.36	0.16	0.48	0.81	0.78	0.	5.66
1961	0.21	0.	0.52	0.24	0.94	1.13	0.45	0.22	0.31	0.83	0.42	0.20	5.48
1962	0.02	0.00	0.43	0.50	0.93	0.90	0.48	0.17	0.48	0.65	0.52	0.53	5.60
1963	0.	0.	0.54	0.78	0.79	1.59	0.28	0.20	0.52	0.65	0.59	0.56	6.49
1964	0.30	0.	0.69	0.	0.80	1.11	0.17	0.17	0.54	0.63	0.45	0.38	5.19
1965	0.45	0.	0.62	0.54	0.81	1.16	0.48	0.14	0.69	0.18	0.78	0.43	6.27
1966	0.08	0.	0.38	0.14	1.22	0.97	0.37	0.13	0.64	0.43	0.79	0.17	5.30
1967	0.	0.02	0.33	0.42	0.68	0.91	0.53	0.16	0.49	0.24	0.14	0.43	4.36
1968	0.27	0.09	0.40	0.34	0.52	1.16	0.33	0.18	0.62	0.	0.82	0.	4.73
1969	0.36	0.03	0.47	0.31	1.00	0.71	0.54	0.11	0.83	0.43	0.36	0.08	5.25
1970	0.	0.02	0.53	0.18	0.84	1.22	0.30	0.15	0.49	0.96	0.81	0.65	6.13
1971	0.	0.	0.49	0.	1.16	1.27	0.54	0.13	0.62	0.60	0.65	0.49	5.95
1972	0.18	0.01	0.86	0.13	1.24	1.52	0.55	0.17	0.57	0.34	0.86	0.62	7.05
1973	0.43	0.	0.52	0.30	0.85	0.75	0.50	0.13	0.34	0.53	1.04	0.52	5.93
1974	0.59	0.	0.55	0.58	0.86	0.81	0.30	0.19	0.18	0.93	0.81	0.50	6.29
1975	0.41	0.	0.57	0.31	0.82	1.31	0.50	0.12	0.33	0.54	0.43	0.27	5.40
1976	0.	0.00	0.56	0.18	1.31	1.18	0.61	0.16	0.49	0.49	0.68	0.03	5.69
1977	0.08	0.	0.51	0.18	0.55	1.00	0.64	0.12	0.62	0.29	0.71	0.59	5.29
1978	0.11	0.07	0.25	0.47	0.87	1.07	0.48	0.20	0.40	0.64	0.69	0.37	5.63
1979	0.40	0.06	0.47	0.11	1.22	0.79	0.49	0.14	0.16	0.52	0.61	0.64	5.80
AVERAGE	0.19	0.02	0.51	0.29	0.93	1.09	0.44	0.16	0.49	0.53	0.65	0.37	5.67

Table 66 IRRIGATION WATER DEMAND FOR MINOR SCHEMES IN BASIN 240 IN 1990

Unit: 10^6 m^3

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1960	0.	0.02	0.30	0.12	0.76	0.75	0.23	0.10	0.30	0.51	0.49	0.	3.60
1961	0.14	0.	0.33	0.15	0.60	0.72	0.29	0.14	0.29	0.53	0.27	0.13	3.48
1962	0.01	0.00	0.27	0.32	0.59	0.58	0.31	0.11	0.30	0.41	0.33	0.34	3.57
1963	0.	0.	0.34	0.49	0.50	1.01	0.18	0.13	0.33	0.41	0.37	0.36	4.13
1964	0.19	0.	0.41	0.	0.51	0.71	0.11	0.11	0.34	0.40	0.29	0.24	3.30
1965	0.28	0.	0.39	0.34	0.51	0.74	0.30	0.09	0.44	0.11	0.49	0.28	3.99
1966	0.05	0.	0.24	0.09	0.77	0.61	0.23	0.08	0.41	0.27	0.50	0.11	3.37
1967	0.	0.01	0.21	0.27	0.44	0.58	0.34	0.10	0.31	0.15	0.09	0.27	2.77
1968	0.17	0.06	0.25	0.22	0.33	0.74	0.21	0.11	0.39	0.	0.52	0.	3.01
1969	0.23	0.02	0.30	0.20	0.64	0.45	0.35	0.07	0.53	0.28	0.23	0.05	3.34
1970	0.	0.01	0.34	0.11	0.53	0.78	0.19	0.09	0.31	0.61	0.51	0.42	3.90
1971	0.	0.	0.31	0.	0.74	0.81	0.34	0.08	0.40	0.38	0.42	0.31	3.79
1972	0.12	0.01	0.55	0.08	0.79	0.97	0.35	0.11	0.36	0.22	0.55	0.39	4.49
1973	0.28	0.	0.33	0.19	0.54	0.48	0.32	0.08	0.22	0.34	0.66	0.33	3.77
1974	0.37	0.	0.35	0.37	0.55	0.51	0.19	0.12	0.11	0.59	0.51	0.32	4.00
1975	0.26	0.	0.36	0.20	0.52	0.83	0.32	0.08	0.21	0.34	0.27	0.17	3.57
1976	0.	0.00	0.35	0.12	0.83	0.75	0.39	0.10	0.31	0.31	0.44	0.02	3.62
1977	0.05	0.	0.32	0.12	0.35	0.64	0.41	0.08	0.38	0.19	0.45	0.37	3.36
1978	0.07	0.04	0.16	0.30	0.56	0.68	0.31	0.13	0.26	0.41	0.44	0.24	3.58
1979	0.26	0.04	0.30	0.07	0.77	0.50	0.31	0.09	0.10	0.33	0.39	0.41	3.56
AVERAGE	0.12	0.01	0.32	0.19	0.59	0.69	0.28	0.10	0.31	0.34	0.41	0.24	3.61

Table 67 IRRIGATION WATER DEMAND FOR MINOR SCHEMES IN BASIN 241 IN 1990

Unit: 10^6 m^3

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1960	0.	0.06	1.11	0.44	2.79	2.75	0.83	0.38	1.11	1.88	1.80	0.	13.14
1961	0.50	0.	1.21	0.55	2.19	2.63	1.05	0.50	0.73	1.93	0.97	0.46	12.71
1962	0.04	0.00	0.99	1.16	2.15	2.10	1.12	0.40	1.11	1.50	1.20	1.23	13.01
1963	0.	0.	1.25	1.80	1.83	3.69	0.65	0.46	1.21	1.50	1.36	1.31	15.06
1964	0.70	0.	1.51	0.	1.85	2.57	0.39	0.39	1.25	1.45	1.04	0.88	12.04
1965	1.04	0.	1.44	1.25	1.87	2.70	1.10	0.34	1.61	0.41	1.80	1.01	14.55
1966	0.17	0.	0.88	0.32	2.82	2.24	0.86	0.34	1.49	0.99	1.83	0.39	12.30
1967	0.	0.05	0.77	0.97	1.59	2.12	1.23	0.37	1.15	0.56	0.32	0.99	10.11
1968	0.64	0.21	0.92	0.79	1.22	2.70	0.76	0.41	1.43	0.	1.90	0.	10.98
1969	0.84	0.07	1.09	0.71	2.33	1.66	1.26	0.26	1.93	1.01	0.85	0.18	12.19
1970	0.	0.04	1.24	0.41	1.94	2.84	0.70	0.34	1.13	2.22	1.87	1.52	14.23
1971	0.	0.	1.13	0.	2.70	2.95	1.24	0.31	1.44	1.38	1.52	1.15	13.81
1972	0.42	0.03	1.99	0.30	2.87	3.53	1.28	0.41	1.32	0.79	1.99	1.43	16.36
1973	1.01	0.	1.21	0.70	1.98	1.75	1.16	0.30	0.82	1.23	2.42	1.20	13.75
1974	1.36	0.	1.29	1.34	1.99	1.87	0.70	0.44	0.41	2.17	1.87	1.16	14.60
1975	0.95	0.	1.33	0.71	1.90	3.03	1.16	0.29	0.78	1.25	0.99	0.62	13.00
1976	0.	0.00	1.29	0.42	3.03	2.73	1.41	0.36	1.13	1.14	1.59	0.07	13.20
1977	0.19	0.	1.18	0.42	1.29	2.33	1.48	0.28	1.40	0.68	1.66	1.36	12.27
1978	0.25	0.15	0.58	1.10	2.08	2.49	1.12	0.47	0.93	1.48	1.60	0.86	13.07
1979	0.93	0.13	1.09	0.26	2.82	1.83	1.13	0.33	0.37	1.21	1.41	1.48	12.99
AVERAGE	0.45	0.04	1.17	0.68	2.16	2.52	1.03	0.37	1.14	1.24	1.50	0.86	13.17

Table 68 IRRIGATION WATER DEMAND FOR MINOR SCHEMES IN BASIN 243 IN 1990

Unit: 10^6 m^3

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1960	0.01	0.00	0.25	0.05	0.36	0.43	0.06	0.05	0.15	0.22	0.17	0.	1.75
1961	0.15	0.	0.20	0.14	0.29	0.37	0.11	0.06	0.22	0.41	0.25	0.22	2.41
1962	0.	0.02	0.16	0.08	0.23	0.30	0.10	0.06	0.14	0.16	0.23	0.18	1.66
1963	0.	0.	0.19	0.29	0.35	0.43	0.15	0.07	0.21	0.32	0.25	0.31	2.56
1964	0.00	0.	0.22	0.08	0.35	0.33	0.10	0.07	0.22	0.09	0.25	0.19	1.90
1965	0.19	0.01	0.22	0.04	0.26	0.25	0.18	0.05	0.33	0.18	0.25	0.10	2.05
1966	0.	0.	0.19	0.00	0.19	0.24	0.10	0.05	0.23	0.13	0.21	0.21	1.55
1967	0.	0.	0.18	0.09	0.24	0.32	0.20	0.07	0.27	0.21	0.13	0.14	1.86
1968	0.23	0.03	0.22	0.24	0.22	0.35	0.10	0.06	0.25	0.18	0.14	0.17	2.17
1969	0.21	0.01	0.23	0.07	0.15	0.29	0.18	0.04	0.30	0.18	0.18	0.25	2.08
1970	0.17	0.03	0.20	0.04	0.22	0.31	0.08	0.05	0.14	0.18	0.22	0.24	1.87
1971	0.14	0.	0.22	0.22	0.38	0.41	0.16	0.04	0.16	0.22	0.21	0.06	2.21
1972	0.15	0.01	0.23	0.07	0.28	0.32	0.23	0.05	0.28	0.29	0.12	0.22	2.24
1973	0.19	0.01	0.19	0.	0.19	0.37	0.16	0.06	0.20	0.06	0.25	0.02	1.68
1974	0.30	0.00	0.22	0.05	0.25	0.29	0.17	0.06	0.10	0.21	0.23	0.21	2.09
1975	0.16	0.	0.24	0.11	0.35	0.20	0.05	0.06	0.19	0.18	0.07	0.	1.60
1976	0.13	0.01	0.23	0.09	0.28	0.30	0.11	0.07	0.26	0.15	0.16	0.	1.79
1977	0.13	0.	0.24	0.12	0.27	0.27	0.09	0.05	0.32	0.12	0.20	0.10	1.91
1978	0.10	0.00	0.18	0.17	0.25	0.31	0.07	0.06	0.18	0.21	0.16	0.09	1.76
1979	0.13	0.	0.24	0.11	0.19	0.16	0.18	0.06	0.19	0.21	0.19	0.17	1.84
AVERAGE	0.12	0.01	0.21	0.10	0.26	0.31	0.13	0.06	0.22	0.19	0.20	0.14	1.95

Table 69 IRRIGATION WATER DEMAND FOR MINOR SCHEMES IN BASIN 244 IN 1990

Unit: 10^6 m^3

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1960	0.12	0.03	2.39	0.47	3.51	4.15	0.59	0.56	1.59	2.26	1.83	0.	17.48
1961	1.61	0.	1.93	1.36	2.78	3.60	1.13	0.59	2.27	4.32	2.64	2.28	24.50
1962	0.	0.17	1.52	0.82	2.22	2.91	1.08	0.62	1.49	1.63	2.43	1.92	16.81
1963	0.	0.	1.82	2.80	3.35	4.13	1.57	0.72	2.20	3.30	2.64	3.27	25.81
1964	0.03	0.	2.17	0.82	3.42	3.20	1.00	0.73	2.33	3.91	2.59	1.97	19.17
1965	1.97	0.07	2.12	0.41	2.49	2.40	1.92	0.53	3.47	1.86	2.64	1.06	20.92
1966	0.	0.	1.82	0.01	1.84	2.29	1.04	0.55	2.40	1.35	2.21	2.21	15.72
1967	0.	0.	1.76	0.86	2.35	3.13	2.08	0.74	2.87	2.21	1.39	1.49	18.88
1968	2.37	0.37	2.15	2.32	2.09	3.35	1.02	0.59	2.63	1.84	1.49	1.78	21.98
1969	2.16	0.14	2.18	0.64	1.44	2.78	1.89	0.45	3.18	1.86	1.92	2.59	21.23
1970	1.78	0.26	1.91	0.36	2.15	3.02	0.79	0.56	1.43	1.86	2.35	2.55	19.02
1971	1.48	0.	2.13	2.13	3.64	3.93	1.71	0.44	1.64	2.33	2.21	0.60	22.24
1972	1.59	0.15	2.20	0.64	2.69	3.09	2.46	0.55	2.88	3.05	1.22	2.31	22.83
1973	2.01	0.10	1.82	0.	1.82	3.55	1.63	0.61	2.07	3.61	2.62	0.22	17.05
1974	3.12	0.21	2.17	0.51	2.40	2.76	1.79	0.67	1.04	2.19	2.43	2.21	21.31
1975	1.71	0.	2.32	1.05	3.35	1.93	0.50	0.58	1.98	1.86	0.74	0.	16.03
1976	1.40	0.09	2.20	0.86	2.71	2.86	1.20	0.69	2.77	1.56	1.71	0.	18.04
1977	1.31	0.	2.34	1.18	2.62	2.58	0.91	0.55	3.36	1.31	2.11	1.01	19.28
1978	1.02	0.05	1.70	1.63	2.38	3.00	0.71	0.61	1.85	2.16	1.73	0.91	17.74
1979	1.36	0.	2.31	1.11	1.89	1.60	1.85	0.60	1.98	2.23	2.04	1.80	18.76
AVERAGE	1.25	0.07	2.05	1.00	2.56	3.01	1.34	0.60	2.27	2.04	2.05	1.51	19.74

Table 70 IRRIGATION WATER DEMAND FOR MINOR SCHEMES IN BASIN 245 IN 1990

Unit: 10^6 m^3

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1960	0.20	0.16	0.93	0.18	0.87	0.62	0.58	1.15	0.04	0.17	0.42	0.55	5.86
1961	0.	0.	0.32	0.19	0.74	0.82	1.70	0.96	0.05	0.18	0.39	0.13	5.48
1962	0.	0.	0.22	0.23	0.61	1.05	1.44	0.95	0.01	0.18	0.48	0.15	5.33
1963	0.	0.	0.	0.40	0.61	0.49	1.81	1.24	0.02	0.14	0.66	0.23	5.59
1964	0.73	0.	0.16	0.20	0.91	1.23	1.15	1.41	0.04	0.16	0.41	0.	6.39
1965	0.46	0.	0.38	0.23	1.09	0.79	2.14	0.87	0.11	0.21	0.66	0.	6.94
1966	0.27	0.10	0.23	0.26	1.06	0.92	0.75	0.72	0.03	0.15	0.43	0.	4.94
1967	0.	0.14	0.50	0.27	0.84	0.81	1.93	1.70	0.05	0.11	0.36	0.19	6.90
1968	0.	0.62	0.	0.38	0.83	0.72	1.00	0.79	0.02	0.09	0.33	0.17	4.95
1969	0.46	0.31	0.53	0.16	0.46	1.30	1.17	0.57	0.04	0.09	0.38	0.	5.47
1970	0.	0.42	0.56	0.17	0.79	0.58	1.60	0.75	0.04	0.13	0.35	0.13	5.52
1971	0.	0.	0.35	0.27	0.75	0.55	1.84	0.82	0.07	0.13	0.	0.36	5.14
1972	0.02	0.44	0.89	0.25	0.86	0.94	1.88	1.37	0.05	0.16	0.53	0.23	7.61
1973	0.10	0.03	0.34	0.13	0.51	0.96	1.52	0.94	0.04	0.14	0.57	0.	5.27
1974	1.27	0.	0.94	0.41	0.98	0.59	1.51	0.85	0.01	0.13	0.39	0.53	7.61
1975	0.01	0.	0.35	0.25	0.79	1.16	1.26	0.33	0.01	0.14	0.22	0.	4.51
1976	0.	0.66	0.81	0.19	0.96	0.79	0.97	1.25	0.13	0.17	0.59	0.01	6.53
1977	0.	0.	0.	0.12	0.89	0.87	1.19	0.93	0.06	0.11	0.46	0.	4.62
1978	0.	0.21	0.36	0.32	0.84	0.86	1.69	1.13	0.03	0.13	0.46	0.	6.02
1979	0.	0.40	0.67	0.11	1.12	0.76	1.30	1.23	0.	0.13	0.20	0.	5.92
AVERAGE	0.18	0.18	0.43	0.24	0.82	0.84	1.42	1.00	0.04	0.14	0.41	0.13	5.83

Table 71 IRRIGATION WATER DEMAND FOR MINOR SCHEMES IN BASIN 246 IN 1990

Unit: 10^6 m^3

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1960	0.27	0.22	1.27	0.25	1.18	0.84	0.80	1.57	0.05	0.23	0.57	0.75	8.00
1961	0.	0.	0.44	0.26	1.01	1.12	2.33	1.31	0.07	0.24	0.53	0.17	7.48
1962	0.	0.	0.30	0.32	0.83	1.43	1.97	1.30	0.02	0.25	0.65	0.21	7.27
1963	0.	0.	0.	0.54	0.83	0.67	2.47	1.70	0.03	0.19	0.89	0.31	7.63
1964	0.99	0.	0.22	0.28	1.24	1.68	1.57	1.92	0.05	0.22	0.56	0.	8.72
1965	0.63	0.	0.53	0.32	1.49	1.08	2.92	1.19	0.15	0.29	0.89	0.	9.48
1966	0.37	0.14	0.31	0.36	1.45	1.25	1.03	0.99	0.04	0.21	0.58	0.	6.74
1967	0.	0.19	0.68	0.37	1.15	1.11	2.64	2.31	0.06	0.14	0.50	0.26	9.41
1968	0.	0.85	0.	0.52	1.13	0.98	1.36	1.08	0.03	0.12	0.45	0.24	6.75
1969	0.63	0.42	0.72	0.22	0.63	1.78	1.59	0.78	0.06	0.13	0.51	0.	7.47
1970	0.	0.58	0.76	0.24	1.08	0.79	2.19	1.02	0.05	0.18	0.48	0.17	7.54
1971	0.	0.	0.46	0.36	1.02	0.74	2.51	1.12	0.10	0.18	0.	0.50	7.01
1972	0.03	0.60	1.21	0.34	1.17	1.28	2.57	1.88	0.06	0.22	0.72	0.31	10.39
1973	0.14	0.04	0.46	0.18	0.69	1.30	2.07	1.26	0.05	0.19	0.78	0.	7.19
1974	1.74	0.	1.28	0.56	1.34	0.81	2.06	1.16	0.01	0.18	0.54	0.72	10.39
1975	0.01	0.	0.48	0.34	1.07	1.59	1.72	0.45	0.01	0.20	0.30	0.	6.16
1976	0.	0.90	1.11	0.26	1.31	1.08	1.32	1.71	0.18	0.24	0.80	0.01	8.92
1977	0.	0.	0.	0.16	1.21	1.19	1.62	1.27	0.08	0.14	0.63	0.	6.30
1978	0.	0.28	0.49	0.44	1.15	1.17	2.30	1.55	0.04	0.18	0.63	0.	8.22
1979	0.	0.55	0.91	0.15	1.58	1.03	1.77	1.68	0.	0.17	0.28	0.	8.08
AVERAGE	0.24	0.24	0.56	0.32	1.18	1.15	1.94	1.36	0.06	0.20	0.56	0.18	7.96

Table 72 IRRIGATION WATER DEMAND FOR MINOR SCHEMES IN BASIN 247 IN 1990

Unit: 10^6 m^3

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1960	0.19	0.15	0.88	0.17	0.82	0.59	0.55	1.09	0.03	0.16	0.40	0.52	5.55
1961	0.	0.	0.30	0.18	0.70	0.78	1.62	0.91	0.05	0.17	0.37	0.12	5.20
1962	0.	0.	0.21	0.22	0.58	0.99	1.37	0.90	0.01	0.17	0.45	0.15	5.05
1963	0.	0.	0.	0.38	0.58	0.47	1.71	1.18	0.02	0.13	0.62	0.22	5.30
1964	0.69	0.	0.15	0.19	0.86	1.16	1.09	1.33	0.04	0.15	0.39	0.	6.05
1965	0.44	0.	0.36	0.22	1.03	0.75	2.03	0.83	0.10	0.20	0.62	0.	6.58
1966	0.26	0.10	0.22	0.25	1.01	0.87	0.71	0.69	0.03	0.15	0.40	0.	4.68
1967	0.	0.13	0.47	0.26	0.80	0.77	1.83	1.61	0.04	0.10	0.34	0.18	6.94
1968	0.	0.59	0.	0.36	0.79	0.68	0.95	0.75	0.02	0.08	0.31	0.16	4.69
1969	0.44	0.29	0.50	0.15	0.44	1.23	1.11	0.54	0.04	0.09	0.36	0.	5.19
1970	0.	0.40	0.53	0.17	0.75	0.55	1.52	0.71	0.04	0.12	0.33	0.12	5.24
1971	0.	0.	0.33	0.25	0.71	0.52	1.74	0.78	0.07	0.13	0.	0.34	4.87
1972	0.02	0.42	0.84	0.24	0.81	0.89	1.79	1.30	0.04	0.15	0.50	0.22	7.22
1973	0.10	0.03	0.32	0.13	0.48	0.91	1.44	0.89	0.04	0.13	0.54	0.	4.99
1974	1.21	0.	0.89	0.39	0.93	0.56	1.43	0.80	0.01	0.13	0.37	0.50	7.21
1975	0.01	0.	0.33	0.23	0.74	1.10	1.20	0.31	0.01	0.14	0.21	0.	4.28
1976	0.	0.62	0.77	0.18	0.91	0.75	0.92	1.19	0.12	0.17	0.55	0.01	6.19
1977	0.	0.	0.	0.11	0.84	0.83	1.12	0.88	0.05	0.10	0.44	0.	4.38
1978	0.	0.20	0.34	0.30	0.80	0.81	1.40	1.08	0.02	0.13	0.43	0.	5.71
1979	0.	0.38	0.63	0.10	1.06	0.72	1.23	1.17	0.	0.12	0.19	0.	5.61
AVERAGE	0.17	0.17	0.40	0.22	0.78	0.80	1.35	0.95	0.04	0.14	0.39	0.13	5.58

Table 73 IRRIGATION WATER DEMAND FOR MAJOR SCHEME IN BASIN 229 IN 1990

Unit: 10^6 m^3

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1960	3.33	0.	1.65	4.09	2.90	5.58	1.82	0.18	4.01	0.90	0.	2.59	27.26
1961	4.79	0.	1.50	5.23	4.76	5.07	4.14	0.56	4.75	1.05	3.04	0.85	35.74
1962	0.	2.37	1.12	2.61	0.51	4.57	6.90	0.	4.55	1.93	1.52	2.03	28.10
1963	0.	0.	1.35	9.38	9.33	8.06	4.98	0.	4.53	0.	1.69	3.33	42.65
1964	3.95	0.73	1.49	1.85	2.31	3.83	0.	0.32	2.73	0.	0.	2.48	19.68
1965	0.	0.	1.05	2.42	0.	7.21	7.05	0.12	4.79	0.	0.	0.28	22.93
1966	2.59	1.24	1.39	4.28	5.68	4.96	4.24	0.	5.25	0.	0.	0.	29.64
1967	0.	0.	1.50	4.59	3.01	2.65	4.44	0.64	3.58	0.	0.39	0.	21.00
1968	0.	0.	1.00	2.76	0.	0.11	1.73	0.	3.74	0.	3.61	1.75	14.70
1969	2.71	0.	1.49	6.64	1.43	4.23	3.99	0.	5.79	0.	0.	2.31	28.59
1970	0.	1.80	1.30	5.39	0.94	4.45	5.77	0.16	3.91	0.	0.	1.18	24.91
1971	2.87	0.	1.40	7.63	3.23	7.21	7.99	0.	3.29	0.	0.79	4.45	39.07
1972	0.	0.37	1.41	1.20	4.65	4.68	6.09	0.51	4.40	0.	0.	0.	25.31
1973	8.74	2.62	1.39	0.71	1.16	0.	2.71	0.	2.17	0.32	1.52	2.20	23.54
1974	0.	0.	1.44	4.21	2.69	5.07	2.02	0.	1.72	0.80	1.41	0.68	20.03
1975	0.	1.35	1.55	6.53	0.	3.83	2.47	0.16	3.29	0.76	0.73	2.82	23.48
1976	0.	0.	1.65	5.80	2.41	5.07	6.31	0.13	6.34	0.	1.52	2.48	31.73
1977	0.	1.83	1.16	5.58	2.20	2.25	4.19	0.49	5.48	0.	0.	0.	23.18
1978	0.	2.25	1.56	6.11	0.	3.49	2.27	0.27	4.17	1.49	1.30	2.42	25.34
1979	8.45	0.14	1.47	5.19	5.79	1.58	1.92	0.08	8.12	0.	0.	1.75	29.51
AVERAGE	1.87	0.74	1.42	4.61	2.65	4.20	4.16	0.18	4.08	0.36	0.88	1.68	26.82

Table 74 IRRIGATION WATER DEMAND FOR MAJOR SCHEME IN BASIN 245 IN 1990

Unit: 10^6 m^3

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1960	0.	0.	2.34	0.28	1.60	0.70	0.56	1.73	0.	0.58	1.83	1.01	10.15
1961	0.	0.	0.23	0.30	1.36	1.09	2.73	1.37	0.05	0.62	1.22	0.	8.95
1962	0.	0.	0.	0.38	1.10	1.53	2.22	1.35	0.	0.64	1.53	0.	8.74
1963	0.	0.	0.	0.69	1.10	0.46	2.93	1.91	0.	0.47	2.15	0.	9.70
1964	1.51	0.	0.	0.32	1.68	1.88	1.65	2.23	0.00	0.55	1.28	0.	11.10
1965	0.59	0.	0.45	0.37	2.03	1.04	3.56	1.19	0.25	0.73	2.15	0.	12.37
1966	0.	0.	0.	0.43	1.98	1.28	0.89	0.90	0.	0.54	1.35	0.	7.38
1967	0.	0.	0.86	0.45	1.55	1.07	3.16	2.78	0.03	0.37	1.63	0.	11.41
1968	0.	1.24	0.	0.66	1.53	0.90	1.36	1.03	0.	0.30	1.02	0.	8.04
1969	0.59	0.16	0.94	0.23	0.82	2.02	1.69	0.62	0.01	0.33	1.17	0.	8.59
1970	0.	0.56	1.06	0.26	1.46	0.63	2.53	0.95	0.	0.46	1.09	0.	8.98
1971	0.	0.	0.34	0.44	1.37	0.56	2.98	1.10	0.11	0.47	0.	0.38	7.75
1972	0.	0.62	2.20	0.41	1.58	1.32	3.07	2.16	0.03	0.56	1.70	0.	13.66
1973	0.	0.	0.28	0.19	0.90	1.35	2.36	1.32	0.01	0.48	1.86	0.	8.76
1974	3.40	0.	2.37	0.73	1.82	0.65	2.35	1.14	0.	0.47	1.24	0.95	15.12
1975	0.	0.	0.34	0.40	1.44	1.76	1.87	0.14	0.	0.50	0.62	0.	7.08
1976	0.	1.37	1.94	0.30	1.77	1.04	1.31	1.92	0.32	0.61	1.90	0.	12.49
1977	0.	0.	0.	0.15	1.64	1.20	1.73	1.38	0.07	0.37	1.48	0.	7.93
1978	0.	0.	0.37	0.54	1.55	1.16	2.69	1.70	0.	0.46	1.46	0.	9.94
1979	0.	0.49	1.43	0.14	2.09	0.97	1.95	1.89	0.	0.44	0.58	0.	9.97
AVERAGE	0.30	0.22	0.76	0.38	1.52	1.13	2.18	1.44	0.04	0.50	1.31	0.12	9.91

Table 75 IRRIGATION WATER DEMAND FOR MAJOR SCHEME IN BASIN 246 IN 1990

Unit: 10^6 m^3

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1960	0.	0.	7.81	0.45	2.56	1.12	0.90	2.77	0.	1.93	4.43	3.38	25.36
1961	0.	0.	0.75	0.47	2.17	1.74	4.36	2.19	0.18	2.07	4.06	0.	17.99
1962	0.	0.	0.	0.61	1.76	2.45	3.55	2.16	0.	2.13	5.09	0.	17.74
1963	0.	0.	0.	1.11	1.76	0.73	4.68	3.05	0.	1.57	7.15	0.	20.06
1964	5.02	0.	0.	0.51	2.68	3.01	2.65	3.56	0.01	1.84	4.28	0.	23.56
1965	1.96	0.	1.51	0.60	3.25	1.66	5.70	1.91	0.85	2.42	7.15	0.	27.01
1966	0.	0.	0.	0.69	3.17	2.05	1.43	1.45	0.	1.79	4.50	0.	15.08
1967	0.	0.	2.85	0.73	2.49	1.72	5.06	4.45	0.10	1.23	3.76	0.	22.38
1968	0.	4.15	0.	1.06	2.45	1.43	2.18	1.65	0.	0.99	3.49	0.	17.80
1969	1.96	0.55	3.14	0.37	1.31	3.23	2.71	0.99	0.04	1.10	3.91	0.	19.31
1970	0.	1.85	3.52	0.42	2.33	1.01	4.04	1.52	0.	1.52	3.42	0.	19.84
1971	0.	0.	1.13	0.71	2.19	0.90	4.77	1.75	0.38	1.56	0.	1.27	14.66
1972	0.	2.07	7.34	0.66	2.53	2.11	4.92	3.46	0.10	1.87	5.68	0.	30.72
1973	0.	0.	0.94	0.30	1.45	2.17	3.78	2.11	0.03	1.61	6.19	0.	18.57
1974	11.35	0.	7.91	1.16	2.92	1.04	3.75	1.83	0.	1.56	4.13	3.17	38.81
1975	0.	0.	1.13	0.64	2.31	2.81	3.00	0.23	0.	1.67	2.07	0.	13.86
1976	0.	4.58	6.48	0.48	2.84	1.66	2.09	3.08	1.06	2.02	6.34	0.	30.63
1977	0.	0.	0.	0.24	2.62	1.91	2.76	2.08	0.23	1.22	4.94	0.	16.02
1978	0.	0.	1.23	0.87	2.49	1.86	4.31	2.72	0.	1.53	4.87	0.	19.86
1979	0.	1.64	4.76	0.22	3.35	1.55	3.11	3.03	0.	1.47	1.92	0.	21.04
AVERAGE	1.01	0.74	2.52	0.62	2.43	1.81	3.49	2.30	0.15	1.66	4.38	0.39	21.49

Table 76 IRRIGATION WATER DEMAND FOR MINOR SCHEMES IN BASIN 213 IN 2000

Unit: 10^6 m^3

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1960	1.51	1.87	1.32	0.33	0.17	0.15	0.37	0.40	0.64	0.32	1.21	0.77	9.06
1961	1.53	1.58	1.55	0.25	0.17	0.10	0.31	0.18	0.52	0.32	1.20	0.58	8.48
1962	0.56	1.28	0.82	0.25	0.15	0.06	0.47	0.32	0.79	0.31	1.84	0.08	7.26
1963	0.	0.72	1.02	0.31	0.17	0.25	0.21	0.36	1.00	0.25	1.33	1.36	6.97
1964	1.95	1.04	0.90	0.20	0.24	0.07	0.22	0.38	0.68	0.29	1.21	1.26	8.43
1965	1.53	0.86	0.75	0.21	0.19	0.23	0.49	0.38	0.66	0.27	1.25	0.86	7.68
1966	1.02	1.75	1.27	0.30	0.21	0.05	0.33	0.30	0.64	0.23	1.20	1.67	8.77
1967	0.48	0.78	1.06	0.28	0.17	0.20	0.31	0.49	1.02	0.29	1.06	1.17	7.31
1968	1.01	2.19	0.99	0.23	0.18	0.07	0.27	0.33	0.86	0.25	1.88	0.49	8.71
1969	1.63	2.03	1.18	0.29	0.18	0.08	0.36	0.20	1.13	0.28	1.16	0.85	9.56
1970	1.00	2.52	1.71	0.22	0.17	0.08	0.25	0.27	0.72	0.29	0.90	0.63	8.76
1971	1.18	0.	1.69	0.38	0.23	0.16	0.40	0.24	0.74	0.27	0.87	1.34	7.51
1972	2.18	1.92	0.96	0.30	0.19	0.21	0.44	0.30	0.37	0.32	1.03	1.64	9.86
1973	2.26	2.44	2.27	0.20	0.17	0.10	0.34	0.30	0.32	0.33	0.74	0.	9.46
1974	0.	0.	1.83	0.24	0.16	0.10	0.31	0.38	0.91	0.35	1.67	0.80	6.74
1975	0.58	1.47	1.27	0.33	0.16	0.12	0.24	0.23	0.62	0.26	1.02	0.95	7.25
1976	0.96	2.16	1.62	0.30	0.25	0.22	0.43	0.31	1.21	0.25	0.99	1.23	9.93
1977	1.13	0.	1.97	0.29	0.18	0.05	0.41	0.27	1.15	0.25	0.99	1.49	8.18
1978	1.39	1.77	1.89	0.20	0.19	0.06	0.36	0.48	0.76	0.29	1.58	0.66	9.61
1979	2.06	2.03	1.28	0.32	0.18	0.13	0.29	0.51	0.71	0.27	0.85	1.84	10.47
AVERAGE	1.19	1.45	1.38	0.27	0.19	0.12	0.34	0.34	0.76	0.28	1.20	0.98	8.50

Table 77 IRRIGATION WATER DEMAND FOR MINOR SCHEMES IN BASIN 216 IN 2000

Unit: 10^6 m^3

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1960	4.86	3.46	0.27	2.25	0.88	1.34	1.57	2.09	0.51	2.64	1.89	5.57	27.34
1961	5.75	3.92	0.10	1.89	1.39	1.37	2.14	1.34	0.67	2.50	3.17	3.81	28.23
1962	3.61	4.14	0.25	2.05	0.93	1.31	1.90	0.90	0.72	3.34	1.54	2.74	23.43
1963	0.07	3.57	0.43	2.39	1.52	1.73	1.53	1.15	0.83	2.06	2.73	1.97	19.88
1964	6.19	4.32	0.44	2.16	0.83	1.59	1.81	1.70	0.78	2.54	1.21	4.41	27.97
1965	4.57	3.50	0.24	2.35	0.80	2.28	2.05	1.28	0.85	2.95	3.88	3.84	28.38
1966	5.02	3.64	0.37	1.81	1.23	1.10	1.83	1.00	0.83	2.20	1.58	2.37	22.98
1967	3.13	3.38	0.28	2.05	0.87	1.44	1.65	1.94	0.77	1.46	2.60	5.05	24.59
1968	4.98	4.36	0.39	2.24	0.91	1.69	1.92	1.56	0.81	2.40	2.33	4.52	28.10
1969	5.80	3.86	0.23	2.40	0.67	1.45	1.55	0.71	0.75	3.75	0.50	2.53	24.20
1970	5.18	4.56	0.47	2.19	1.00	1.37	2.40	1.31	0.75	0.89	2.42	3.59	25.93
1971	5.32	3.64	0.47	2.34	0.43	1.65	1.95	1.23	0.70	2.00	1.58	1.62	22.73
1972	3.93	4.04	0.45	2.36	1.26	1.75	1.87	1.43	0.76	4.65	2.22	3.79	28.50
1973	6.17	4.48	0.46	1.86	1.00	1.04	1.41	1.38	0.65	2.75	0.63	1.62	23.47
1974	3.59	1.64	0.34	2.27	1.75	1.62	2.59	0.87	0.72	1.58	2.11	4.25	23.32
1975	4.98	3.38	0.31	2.41	1.20	1.36	2.02	1.23	0.66	2.55	2.05	1.71	23.86
1976	3.51	4.00	0.46	2.36	0.92	1.50	2.11	0.88	0.81	4.82	1.96	2.88	26.00
1977	2.74	2.20	0.42	2.32	1.93	0.66	2.27	1.96	0.92	2.17	2.51	2.67	22.76
1978	5.57	4.22	0.44	2.23	1.10	1.51	2.69	1.51	0.78	2.61	1.10	4.18	27.94
1979	6.12	4.24	0.34	2.19	1.28	0.38	0.73	2.07	0.73	1.19	0.88	5.32	25.22
AVERAGE	4.54	3.20	0.36	2.20	1.10	1.41	1.90	1.38	0.75	2.55	1.92	3.42	25.24

Table 78 IRRIGATION WATER DEMAND FOR MINOR SCHEMES IN BASIN 218 IN 2000

Unit: 10^6 m^3

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1960	24.67	17.55	1.39	13.03	5.09	8.92	9.12	10.60	2.61	15.36	8.59	28.26	145.38
1961	29.07	19.88	0.49	10.96	9.21	7.94	12.44	6.78	3.42	14.99	16.09	19.34	150.40
1962	18.30	20.99	1.27	11.89	5.43	7.62	11.00	4.57	3.64	18.43	7.80	13.90	124.85
1963	0.35	17.85	2.20	13.87	8.81	10.03	8.85	5.85	4.23	13.14	13.85	9.73	108.76
1964	31.39	21.90	2.24	12.51	4.81	9.25	10.48	8.63	3.97	15.12	6.12	22.35	148.77
1965	23.16	16.74	1.20	13.63	4.64	13.22	11.91	6.49	4.33	16.84	19.67	19.46	151.28
1966	25.48	18.46	1.85	10.48	7.12	6.38	10.61	5.10	4.20	13.72	8.03	12.05	123.47
1967	15.87	17.14	1.40	11.89	5.03	8.33	9.57	9.84	3.89	10.66	13.18	25.60	132.40
1968	25.25	22.11	1.97	12.99	5.26	9.83	11.13	7.93	4.10	14.54	11.83	22.93	149.87
1969	29.42	19.57	1.14	13.92	3.90	8.40	8.99	3.59	3.79	20.15	2.54	12.86	128.27
1970	26.29	22.11	2.36	12.72	5.82	7.94	13.93	6.66	3.82	8.30	12.28	18.18	140.43
1971	26.99	18.46	2.36	13.61	2.49	8.40	11.33	6.25	3.54	12.89	8.03	8.22	122.56
1972	19.92	20.49	2.27	13.68	7.29	10.16	10.87	7.24	3.83	23.85	11.27	19.23	150.09
1973	31.27	22.71	2.33	10.81	5.82	6.06	8.20	7.01	3.31	16.01	3.21	8.22	124.98
1974	18.18	8.32	1.71	13.16	10.17	9.38	15.04	4.40	3.67	11.17	10.71	21.54	127.47
1975	25.25	17.14	1.58	13.97	6.95	7.88	11.72	6.25	3.37	15.18	10.38	8.69	128.35
1976	16.79	20.28	2.32	13.68	5.31	8.72	12.24	4.46	4.12	24.55	9.93	14.59	137.00
1977	13.90	11.16	2.14	13.44	11.18	3.84	13.15	9.96	4.66	13.59	12.73	13.55	123.31
1978	28.26	21.40	2.22	12.94	6.39	8.79	15.63	7.64	3.96	15.44	5.56	21.19	149.41
1979	31.04	21.50	1.74	12.72	7.40	2.21	4.23	10.25	3.69	9.58	3.44	26.99	134.79
AVERAGE	23.04	18.79	1.81	12.80	6.40	8.16	11.02	6.98	3.81	15.19	9.76	17.34	135.10

Table 79 IRRIGATION WATER DEMAND FOR MINOR SCHEMES IN BASIN 224 IN 2000

Unit: 10^6 m^3

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1960	31.54	23.78	12.68	1.73	5.77	6.91	6.64	8.24	2.26	19.94	3.93	29.01	152.42
1961	33.45	19.97	9.99	1.71	6.81	5.45	7.77	8.38	3.01	18.66	17.81	18.07	151.08
1962	16.33	21.56	10.62	1.34	4.78	4.08	10.53	4.54	2.44	22.96	16.57	16.64	132.38
1963	14.11	20.29	8.80	1.77	5.46	8.16	8.73	8.71	2.87	22.96	15.06	22.35	139.26
1964	38.83	13.31	5.55	1.51	5.18	4.72	6.02	9.04	1.96	19.76	13.96	24.57	144.41
1965	30.59	31.07	4.52	1.61	5.20	6.95	10.32	4.80	2.28	17.64	14.37	25.20	154.75
1966	36.62	32.49	7.05	1.60	6.90	5.61	6.52	6.88	2.32	18.77	21.51	21.24	167.53
1967	21.08	23.78	9.19	1.78	4.59	6.66	8.65	8.31	1.74	20.40	15.20	23.30	146.68
1968	22.67	30.75	8.56	1.43	4.92	5.17	6.64	7.54	2.14	16.62	16.84	26.63	149.92
1969	29.32	30.12	7.45	1.76	5.60	5.05	9.07	4.65	3.49	22.03	12.59	23.62	154.74
1970	26.95	32.18	9.04	1.60	4.89	5.69	9.40	7.21	2.10	17.73	12.17	22.19	151.15
1971	30.28	7.93	13.00	1.68	6.53	7.27	9.53	2.86	2.89	18.02	3.11	18.86	121.95
1972	27.11	26.15	8.56	1.35	6.81	4.97	9.99	6.81	2.89	23.25	14.65	34.08	166.61
1973	38.83	36.14	11.17	1.49	5.80	4.12	8.27	6.34	0.12	22.09	11.90	24.73	170.99
1974	31.38	15.85	10.46	1.52	5.43	5.33	9.15	6.85	0.95	20.23	14.37	24.73	146.25
1975	24.73	23.62	10.14	1.75	4.30	5.69	8.02	6.63	1.08	22.67	16.16	16.48	142.07
1976	26.47	32.22	8.88	1.74	7.46	6.95	6.18	6.85	3.25	17.84	12.31	31.70	161.65
1977	23.46	15.69	8.96	1.54	5.43	4.04	6.56	6.99	3.17	20.11	10.66	22.19	128.80
1978	31.54	26.63	14.82	1.61	5.26	6.54	6.81	9.04	1.19	20.52	18.49	25.20	167.66
1979	32.49	29.01	4.91	1.72	5.85	5.05	6.89	7.87	1.70	17.32	8.19	22.19	143.21
AVERAGE	28.39	24.62	9.22	1.61	5.75	5.72	8.08	6.93	2.23	19.98	13.49	23.65	149.68

Table 80 IRRIGATION WATER DEMAND FOR MINOR SCHEMES IN BASIN 228 IN 2000

Unit: 10^6 m^3

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1960	2.34	0.	0.85	1.99	2.04	3.35	1.54	0.19	1.85	0.83	0.73	2.00	17.71
1961	3.01	0.18	0.69	2.52	2.89	3.12	2.61	0.36	2.19	0.90	2.18	1.20	21.85
1962	0.	1.45	0.52	1.31	0.94	2.88	3.88	0.06	2.10	1.30	1.48	1.74	17.86
1963	0.	0.	0.62	4.43	5.00	4.49	3.00	0.08	2.09	0.34	1.56	2.34	23.95
1964	2.62	0.70	0.69	0.96	1.76	2.55	0.	0.25	1.26	0.	0.	1.95	12.74
1965	0.55	0.01	0.49	1.22	0.23	4.11	3.95	0.16	2.21	0.	0.42	0.94	14.27
1966	2.00	0.94	0.64	2.08	3.32	3.07	2.66	0.	2.42	0.	0.49	0.	17.61
1967	0.81	0.	0.69	2.22	2.09	2.00	2.84	0.40	1.65	0.	0.96	0.44	14.10
1968	0.	0.01	0.46	1.88	0.51	0.83	1.50	0.08	1.72	0.	2.44	1.61	10.59
1969	2.05	0.01	0.69	3.17	1.36	2.73	2.54	0.	2.67	0.	0.75	1.87	17.84
1970	0.52	1.20	0.60	2.59	1.14	2.83	3.36	0.16	1.80	0.22	0.75	1.35	16.54
1971	2.13	0.	0.74	3.62	2.19	4.11	4.38	0.	1.51	0.	1.14	2.86	22.69
1972	0.	0.53	0.65	0.66	2.84	2.94	4.43	0.34	2.03	0.14	0.	0.13	14.71
1973	4.83	1.57	0.44	0.43	1.24	0.73	1.95	0.	1.00	0.56	1.48	1.82	16.25
1974	0.08	0.	0.66	2.04	1.94	3.12	1.63	0.06	0.79	0.79	1.43	1.12	13.66
1975	0.	0.99	0.71	3.11	0.38	2.55	1.84	0.18	1.51	0.76	1.12	2.10	15.26
1976	0.	0.21	0.76	2.78	1.81	3.12	3.61	0.16	2.92	0.	1.48	1.95	18.81
1977	0.65	1.21	0.54	2.67	1.73	1.82	2.63	0.38	2.92	0.22	0.	0.39	14.70
1978	0.	1.40	0.72	2.92	0.51	2.39	1.75	0.23	1.92	1.10	1.58	1.92	16.24
1979	4.70	0.43	0.68	2.50	3.37	1.51	1.59	0.14	1.44	0.	0.	1.61	17.97
AVERAGE	1.31	0.54	0.65	2.23	1.86	2.71	2.59	0.14	1.88	0.36	0.99	1.47	16.76

Table 81 IRRIGATION WATER DEMAND FOR MINOR SCHEMES IN BASIN 230 IN 2000

Unit: 10^6 m^3

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1960	10.03	0.71	2.43	11.10	10.92	9.60	7.92	1.40	7.04	4.81	8.04	9.11	77.70
1961	10.45	2.29	2.41	8.71	12.78	6.42	8.84	0.65	9.45	3.95	14.40	6.78	87.85
1962	2.05	5.68	2.14	10.48	8.61	8.54	14.59	0.42	7.58	1.57	1.62	4.38	67.67
1963	0.	1.94	2.25	14.15	11.07	15.04	7.55	1.08	9.71	7.69	9.74	8.54	88.70
1964	6.85	5.37	2.59	8.57	10.25	12.57	4.95	0.	8.46	3.83	1.27	7.70	72.40
1965	0.	1.41	1.99	7.71	10.46	9.95	11.68	0.94	9.81	3.93	6.00	5.15	68.64
1966	10.24	3.67	1.99	6.38	16.12	11.30	6.74	0.18	9.45	3.16	4.24	0.85	74.31
1967	3.67	2.40	2.10	9.19	9.77	9.39	9.28	0.56	9.03	5.79	6.28	5.65	73.11
1968	7.48	3.60	2.28	9.95	12.71	8.88	7.73	0.40	9.09	3.28	7.91	8.26	81.52
1969	11.79	4.55	2.77	8.76	6.36	12.14	9.09	0.35	9.01	0.	0.	6.78	71.61
1970	5.44	3.53	2.57	6.71	11.00	9.81	7.61	0.26	8.31	0.	5.51	8.61	69.36
1971	5.15	1.69	2.78	9.48	18.05	15.74	7.73	0.18	9.66	0.04	5.86	3.25	74.56
1972	4.87	2.89	2.89	10.72	18.80	9.25	13.17	1.38	7.48	5.24	6.14	10.52	87.85
1973	16.03	5.68	2.27	5.76	10.59	8.33	8.04	0.73	7.92	2.30	2.75	0.28	70.69
1974	4.66	1.20	2.52	11.53	8.41	8.90	13.17	0.74	7.43	3.10	5.93	5.65	73.23
1975	6.85	3.21	2.38	12.67	12.23	10.17	9.46	0.77	7.38	2.85	6.78	6.92	81.66
1976	2.82	2.82	2.71	10.00	14.00	11.86	15.02	0.31	10.69	4.93	9.60	7.55	92.33
1977	3.46	0.	2.36	10.33	14.35	11.96	8.47	0.69	9.76	2.30	4.17	6.50	74.24
1978	10.52	3.67	2.09	11.24	6.57	9.11	10.51	1.00	8.49	2.91	5.08	7.91	79.10
1979	14.33	4.59	2.24	8.19	17.08	5.93	9.83	0.76	8.15	0.47	3.60	9.18	84.34
AVERAGE	6.83	3.05	2.37	9.58	11.49	10.24	9.57	0.63	8.70	3.09	5.50	6.48	77.52

Table 82 IRRIGATION WATER DEMAND FOR MINOR SCHEMES IN BASIN 236 IN 2000

Unit: 10^6 m^3

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1960	2.81	1.19	1.51	4.79	4.23	4.75	2.84	0.68	4.78	2.34	1.70	1.84	33.46
1961	3.68	0.46	1.36	4.07	4.10	6.30	6.15	0.22	5.10	0.	1.75	1.45	36.64
1962	0.10	2.28	0.96	4.89	5.87	4.85	5.22	0.	5.14	2.30	0.05	4.12	35.77
1963	0.	0.39	1.43	5.51	4.27	6.06	5.26	0.03	4.69	3.31	1.21	3.39	35.56
1964	3.97	2.40	1.49	3.58	3.43	8.05	2.38	0.44	4.89	0.83	0.05	10.81	42.31
1965	2.38	0.92	1.28	6.98	5.21	8.82	7.42	0.04	5.01	0.91	4.70	3.64	47.91
1966	2.91	0.	1.36	4.63	9.05	2.76	4.16	0.	4.94	0.37	2.86	3.25	36.28
1967	0.	2.08	1.19	3.68	3.76	5.09	3.65	0.27	5.07	2.68	0.44	3.97	31.87
1968	3.05	1.14	1.46	5.67	3.81	5.77	4.50	0.02	5.47	2.05	7.95	0.58	41.48
1969	5.04	1.24	1.06	4.69	2.17	7.80	7.93	0.	4.08	0.	1.75	0.15	37.90
1970	4.41	2.18	1.21	2.93	1.32	3.30	2.08	0.34	4.19	1.75	1.99	4.02	29.72
1971	0.05	0.	1.64	6.59	4.70	7.95	6.91	0.	4.82	1.38	1.07	0.68	35.77
1972	0.73	0.92	1.44	7.51	4.80	7.42	4.92	0.31	4.51	4.40	0.92	4.17	44.25
1973	7.56	1.87	1.02	3.65	4.65	1.70	3.48	0.18	3.84	2.47	4.65	1.55	36.81
1974	3.97	0.58	1.61	4.40	5.82	4.27	4.79	0.31	3.79	0.66	1.07	4.02	35.29
1975	0.78	1.09	1.28	4.01	7.46	5.77	2.84	0.07	4.33	1.50	2.81	0.92	32.89
1976	0.	1.19	1.15	6.46	5.30	7.03	4.24	0.18	5.05	1.08	3.54	4.17	39.38
1977	1.79	0.	1.01	7.93	7.09	6.98	7.25	0.21	5.01	2.51	2.42	4.65	46.86
1978	3.59	2.86	1.23	4.82	2.12	5.58	4.75	0.69	4.25	0.41	2.81	2.33	35.38
1979	6.45	1.91	1.30	5.64	8.49	0.44	3.69	0.96	4.46	1.25	3.64	3.78	41.50
AVERAGE	2.66	1.23	1.31	5.12	5.08	5.53	4.72	0.25	4.77	1.61	2.37	3.17	37.84

Table 83 IRRIGATION WATER DEMAND FOR MINOR SCHEMES IN BASIN 238 IN 2000

Unit: 10^6 m^3

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1960	0.27	0.11	0.15	0.46	0.41	0.46	0.27	0.07	0.46	0.23	0.16	0.18	3.23
1961	0.36	0.04	0.13	0.39	0.59	0.61	0.59	0.02	0.49	0.	0.17	0.14	3.53
1962	0.01	0.22	0.09	0.47	0.57	0.47	0.50	0.	0.50	0.22	0.00	0.40	3.45
1963	0.	0.04	0.14	0.53	0.41	0.58	0.51	0.06	0.45	0.32	0.12	0.33	3.43
1964	0.38	0.23	0.14	0.35	0.33	0.78	0.23	0.04	0.47	0.08	0.00	1.04	4.08
1965	0.23	0.09	0.12	0.67	0.50	0.85	0.72	0.06	0.48	0.09	0.45	0.35	4.62
1966	0.28	0.	0.13	0.45	0.87	0.27	0.40	0.	0.48	0.04	0.28	0.31	3.50
1967	0.	0.20	0.11	0.35	0.36	0.49	0.35	0.03	0.49	0.26	0.04	0.38	3.07
1968	0.29	0.11	0.14	0.55	0.37	0.56	0.43	0.08	0.53	0.20	0.77	0.06	4.00
1969	0.49	0.12	0.10	0.45	0.21	0.75	0.76	0.	0.59	0.	0.17	0.01	3.65
1970	0.43	0.21	0.12	0.28	0.13	0.32	0.20	0.03	0.42	0.17	0.19	0.39	2.87
1971	0.00	0.	0.16	0.64	0.45	0.77	0.67	0.	0.46	0.13	0.10	0.07	3.45
1972	0.07	0.09	0.16	0.72	0.66	0.71	0.47	0.03	0.44	0.42	0.09	0.40	4.27
1973	0.73	0.18	0.10	0.35	0.45	0.16	0.34	0.02	0.37	0.24	0.45	0.15	3.53
1974	0.38	0.06	0.16	0.42	0.56	0.41	0.46	0.03	0.36	0.06	0.10	0.39	3.40
1975	0.07	0.11	0.12	0.39	0.72	0.56	0.27	0.01	0.42	0.14	0.27	0.09	3.17
1976	0.	0.11	0.11	0.62	0.51	0.68	0.41	0.02	0.49	0.10	0.34	0.40	3.80
1977	0.17	0.	0.10	0.78	0.68	0.67	0.70	0.02	0.48	0.24	0.23	0.45	4.52
1978	0.35	0.28	0.12	0.46	0.20	0.53	0.46	0.07	0.41	0.04	0.27	0.22	3.41
1979	0.62	0.18	0.13	0.54	0.82	0.04	0.36	0.05	0.43	0.12	0.35	0.36	4.00
AVERAGE	0.26	0.12	0.13	0.49	0.49	0.53	0.46	0.02	0.46	0.16	0.23	0.31	3.65

Table 84 IRRIGATION WATER DEMAND FOR MINOR SCHEMES IN BASIN 240 IN 2000

Unit: 10^6 m^3

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1960	0.	0.04	0.61	0.24	1.53	1.51	0.45	0.21	0.61	1.03	0.99	0.	7.21
1961	0.27	0.	0.66	0.30	1.20	1.44	0.58	0.26	0.40	1.04	0.53	0.25	6.97
1962	0.02	0.00	0.54	0.64	1.18	1.15	0.41	0.22	0.61	0.82	0.66	0.68	7.13
1963	0.	0.	0.69	0.99	1.01	2.02	0.36	0.25	0.66	0.62	0.74	0.72	8.26
1964	0.38	0.	0.63	0.	1.02	1.41	0.21	0.22	0.69	0.68	0.57	0.48	6.40
1965	0.57	0.	0.79	0.69	1.03	1.48	0.60	0.18	0.88	0.23	0.99	0.55	7.98
1966	0.10	0.	0.46	0.17	1.55	1.23	0.47	0.17	0.82	0.54	1.01	0.21	6.75
1967	0.	0.03	0.42	0.53	0.87	1.16	0.68	0.20	0.63	0.31	0.17	0.54	5.55
1968	0.35	0.12	0.50	0.43	0.67	1.48	0.42	0.23	0.78	0.	1.04	0.	6.02
1969	0.46	0.04	0.60	0.39	1.28	0.91	0.69	0.14	1.06	0.55	0.46	0.10	6.68
1970	0.	0.02	0.68	0.22	1.06	1.56	0.38	0.19	0.62	1.22	1.03	0.83	7.81
1971	0.	0.	0.62	0.	1.48	1.62	0.68	0.17	0.79	0.76	0.83	0.63	7.58
1972	0.23	0.01	1.09	0.17	1.58	1.93	0.70	0.22	0.73	0.43	1.09	0.78	8.97
1973	0.55	0.	0.66	0.38	1.08	0.96	0.64	0.17	0.44	0.67	1.33	0.66	7.54
1974	0.75	0.	0.71	0.74	1.09	1.03	0.38	0.24	0.22	1.19	1.03	0.64	8.01
1975	0.52	0.	0.73	0.39	1.04	1.66	0.64	0.16	0.43	0.68	0.54	0.34	7.13
1976	0.	0.00	0.71	0.23	1.66	1.50	0.77	0.20	0.62	0.63	0.87	0.04	7.24
1977	0.10	0.	0.65	0.23	0.71	1.24	0.81	0.15	0.77	0.57	0.91	0.74	6.73
1978	0.14	0.08	0.32	0.60	1.11	1.36	0.61	0.26	0.51	0.81	0.88	0.47	7.17
1979	0.51	0.07	0.40	0.14	1.55	1.01	0.62	0.18	0.20	0.66	0.77	0.81	7.13
AVERAGE	0.25	0.02	0.64	0.37	1.18	1.38	0.57	0.20	0.62	0.68	0.82	0.47	7.22

Table 85 IRRIGATION WATER DEMAND FOR MINOR SCHEMES IN BASIN 241 IN 2000

Unit: 10^6 m^3

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1960	0.	0.11	1.87	0.74	4.71	4.65	1.40	0.63	1.88	3.18	3.04	0.	22.22
1961	0.84	0.	2.05	0.92	3.70	4.45	1.78	0.85	1.23	3.26	1.64	0.78	21.50
1962	0.06	0.00	1.67	1.96	3.64	3.55	1.89	0.68	1.88	2.54	2.03	2.09	22.00
1963	0.	0.	2.12	3.05	3.10	6.24	1.10	0.78	2.04	2.54	2.30	2.21	25.47
1964	1.18	0.	2.55	0.	3.13	4.36	0.66	0.67	2.12	2.45	1.76	1.49	20.37
1965	1.76	0.	2.43	2.11	3.16	4.56	1.86	0.57	2.72	0.70	3.04	1.70	24.62
1966	0.29	0.	1.49	0.54	4.77	3.79	1.45	0.52	2.52	1.68	3.10	0.66	20.81
1967	0.	0.09	1.30	1.65	2.69	3.58	2.09	0.62	1.94	0.95	0.54	1.67	17.11
1968	1.08	0.36	1.55	1.34	2.06	4.56	1.28	0.70	2.42	0.	3.22	0.	18.58
1969	1.42	0.12	1.85	1.21	3.94	2.80	2.13	0.45	3.27	1.70	1.43	0.30	20.62
1970	0.	0.06	2.09	0.69	3.28	4.80	1.18	0.58	1.92	3.75	3.16	2.57	24.08
1971	0.	0.	1.91	0.	4.56	4.98	2.10	0.52	2.44	2.34	2.57	1.94	23.87
1972	0.71	0.04	3.37	0.51	4.86	5.97	2.16	0.69	2.24	1.33	3.37	2.42	27.68
1973	1.70	0.	2.05	1.18	3.34	2.95	1.97	0.51	1.35	2.08	4.09	2.03	23.26
1974	2.30	0.	2.18	2.27	3.37	3.16	1.18	0.75	0.69	3.67	3.16	1.97	24.70
1975	1.60	0.	2.24	1.21	3.22	5.13	1.97	0.49	1.31	2.11	1.67	1.04	22.00
1976	0.	0.00	2.19	0.72	5.13	4.62	2.39	0.61	1.92	1.94	2.69	0.12	22.32
1977	0.32	0.	2.00	0.72	2.18	3.94	2.51	0.47	2.36	1.16	2.80	2.30	20.76
1978	0.43	0.26	0.97	1.86	3.43	4.21	1.89	0.79	1.58	2.51	2.72	1.46	22.10
1979	1.57	0.22	1.84	0.43	4.77	3.10	1.91	0.56	0.63	2.05	2.39	2.51	21.98
AVERAGE	0.76	0.06	1.99	1.16	3.65	4.27	1.75	0.62	1.92	2.10	2.54	1.46	22.28

Table 86 IRRIGATION WATER DEMAND FOR MINOR SCHEMES IN BASIN 244 IN 2000

Unit: 10^6 m^3

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1960	0.29	0.07	6.13	1.21	9.02	10.68	1.44	1.38	3.89	5.54	4.48	0.	44.14
1961	3.95	0.	4.96	3.49	7.14	9.25	2.77	1.44	5.56	10.61	6.48	5.60	61.23
1962	0.	0.42	3.91	2.10	5.71	7.48	2.65	1.52	3.66	4.00	5.95	4.71	42.11
1963	0.	0.	4.67	7.20	8.62	10.62	3.86	1.78	5.41	8.10	6.48	8.01	64.74
1964	0.08	0.	5.57	2.10	8.79	8.22	2.44	1.79	5.72	2.23	6.36	4.83	48.15
1965	4.82	0.16	5.44	1.06	6.39	6.17	4.71	1.29	8.51	4.57	6.48	2.59	52.20
1966	0.	0.	4.67	0.02	4.74	5.88	2.56	1.36	5.88	3.32	5.42	5.42	39.27
1967	0.	0.	4.52	2.20	6.05	8.05	5.10	1.83	7.04	5.42	3.42	3.65	47.27
1968	5.80	0.90	5.53	5.96	5.37	8.62	2.50	1.46	6.44	4.51	3.65	4.36	55.10
1969	5.29	0.35	5.61	1.66	3.71	7.14	4.62	1.10	7.79	4.57	4.71	6.36	52.90
1970	4.36	0.65	4.92	0.91	5.54	7.76	1.94	1.37	3.50	4.57	5.77	6.24	47.54
1971	3.64	0.	5.48	5.47	9.36	10.11	4.18	1.09	4.01	5.71	5.42	5.47	55.94
1972	3.90	0.37	5.65	1.66	6.91	7.94	6.04	1.36	7.08	7.47	3.00	5.66	57.02
1973	4.93	0.24	4.67	0.	4.68	9.13	4.01	1.50	5.09	1.49	6.42	0.53	42.68
1974	7.66	0.02	5.59	1.31	6.17	7.14	4.39	1.65	2.54	5.37	5.95	5.42	53.20
1975	4.20	0.	5.97	2.69	8.62	4.97	1.24	1.42	4.85	4.57	1.83	0.	40.36
1976	3.43	0.23	5.65	2.20	6.97	7.36	2.95	1.68	6.80	3.83	4.18	0.	45.28
1977	3.23	0.	6.03	3.04	6.74	6.62	2.24	1.35	8.23	3.20	5.18	2.47	48.33
1978	2.50	0.13	4.38	4.18	6.11	7.71	1.74	1.50	4.53	5.31	4.24	2.24	44.55
1979	3.33	0.	5.95	2.84	4.85	4.11	4.54	1.47	4.85	5.48	5.01	4.42	46.84
AVERAGE	3.07	0.18	5.26	2.56	6.57	7.75	3.30	1.47	5.57	4.99	5.02	3.70	49.44

Table 87 IRRIGATION WATER DEMAND FOR MINOR SCHEMES IN BASIN 245 IN 2000

Unit: 10^6 m^3

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1960	0.55	0.44	2.57	0.51	2.40	1.71	1.61	3.18	0.10	0.46	1.16	1.51	16.20
1961	0.	0.	0.88	0.53	2.05	2.26	4.71	2.66	0.15	0.49	1.07	0.35	15.16
1962	0.	0.	0.61	0.65	1.68	2.89	3.98	2.64	0.03	0.51	1.32	0.43	14.73
1963	0.	0.	0.	1.10	1.68	1.36	5.00	3.43	0.07	0.37	1.81	0.63	15.45
1964	2.00	0.	0.45	0.56	2.50	3.40	3.18	3.89	0.11	0.44	1.13	0.	17.65
1965	1.28	0.	1.06	0.64	3.01	2.19	5.91	2.41	0.31	0.58	1.81	0.	19.20
1966	0.76	0.29	0.63	0.78	2.94	2.54	2.08	2.00	0.09	0.63	1.18	0.	13.66
1967	0.	0.39	1.38	0.75	2.33	2.24	5.34	4.69	0.13	0.29	1.00	0.58	19.07
1968	0.	1.72	0.	1.05	2.29	1.99	2.76	2.18	0.06	0.24	0.91	0.48	13.48
1969	1.28	0.86	1.45	0.44	1.27	3.60	3.23	1.59	0.11	0.26	1.04	0.	15.13
1970	0.	1.17	1.54	0.48	2.19	1.61	4.43	2.07	0.10	0.36	0.97	0.35	15.27
1971	0.	0.	0.97	0.74	2.07	1.51	5.08	2.27	0.20	0.37	0.	1.01	14.21
1972	0.05	1.22	2.45	0.70	2.36	2.59	5.21	3.50	0.13	0.45	1.46	0.63	21.05
1973	0.29	0.08	0.93	0.37	1.40	2.64	4.19	2.59	0.11	0.38	1.98	0.	14.96
1974	3.51	0.	2.59	1.14	2.72	1.63	4.17	2.34	0.02	0.37	1.09	1.46	21.04
1975	0.03	0.	0.97	0.68	2.17	3.22	3.49	0.90	0.02	0.40	0.60	0.	12.48
1976	0.	1.82	2.25	0.53	2.65	2.19	2.48	3.46	0.06	0.48	1.62	0.02	18.06
1977	0.	0.	0.	0.32	2.45	2.41	3.28	2.57	0.16	0.29	1.28	0.	12.77
1978	0.	0.57	1.00	0.88	2.33	2.36	4.66	3.14	0.07	0.37	1.27	0.	16.63
1979	0.	1.12	1.84	0.38	3.10	2.09	3.59	3.41	0.	0.35	0.96	0.	16.87
AVERAGE	0.49	0.48	1.18	0.65	2.28	2.32	3.93	2.76	0.12	0.39	1.14	0.37	14.12

Table 88 IRRIGATION WATER DEMAND FOR MINOR SCHEMES IN BASIN 246 IN 2000

Unit: 10^6 m^3

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1960	0.81	0.66	3.81	0.79	3.56	2.53	2.89	4.72	0.15	0.68	1.72	2.24	24.02
1961	0.	0.	1.31	0.78	3.04	3.34	6.99	3.94	0.22	0.78	1.99	0.52	22.47
1962	0.	0.	0.90	0.96	2.49	4.29	5.91	3.91	0.05	0.75	1.96	0.63	21.84
1963	0.	0.	0.	1.63	2.49	2.01	7.41	5.09	0.10	0.56	2.68	0.93	22.80
1964	2.97	0.	0.67	0.83	3.71	5.03	4.71	5.77	0.16	0.65	1.47	0.	26.17
1965	1.89	0.	1.58	0.95	4.47	3.24	8.76	3.57	0.45	0.86	2.68	0.	28.46
1966	1.12	0.42	0.94	1.08	4.36	3.77	3.09	2.96	0.14	0.93	1.75	0.	20.25
1967	0.	0.58	2.05	1.12	3.45	3.32	7.91	6.95	0.19	0.44	1.49	0.78	28.27
1968	0.	2.55	0.	1.56	3.40	2.95	4.09	3.23	0.09	0.35	1.86	0.71	20.28
1969	1.89	1.27	2.15	0.65	1.89	5.33	4.79	2.35	0.17	0.39	1.54	0.	22.43
1970	0.	1.74	2.29	0.72	3.24	2.39	6.56	3.06	0.15	0.54	1.43	0.52	22.64
1971	0.	0.	1.44	1.09	3.06	2.24	7.53	3.37	0.29	0.55	0.	1.49	21.06
1972	0.08	1.81	3.44	1.03	3.50	3.84	7.72	5.13	0.19	0.66	2.16	0.93	31.20
1973	0.42	0.12	1.38	0.55	2.07	3.92	6.21	3.84	0.16	0.57	2.35	0.	21.59
1974	5.21	0.	3.84	1.69	4.03	2.42	6.18	3.47	0.02	0.55	1.42	2.16	31.20
1975	0.04	0.	1.44	1.01	3.22	4.77	5.17	1.34	0.03	0.59	0.89	0.	18.50
1976	0.	2.70	3.33	0.79	3.92	3.24	3.98	5.12	0.53	0.71	2.40	0.04	26.77
1977	0.	0.	0.	0.47	3.44	3.56	4.86	3.81	0.24	0.43	1.90	0.	18.93
1978	0.	0.85	1.48	1.31	3.45	3.50	6.91	4.65	0.11	0.54	1.88	0.	24.68
1979	0.	1.66	2.73	0.45	4.40	3.09	5.33	5.06	0.	0.52	0.84	0.	24.27
AVERAGE	0.72	0.72	1.75	0.97	3.38	3.44	5.82	4.09	0.17	0.59	1.69	0.55	23.90

Table 89 IRRIGATION WATER DEMAND FOR MINOR SCHEMES IN BASIN 247 IN 2000

Unit: 10^6 m^3

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1960	0.41	0.34	1.95	0.38	1.82	1.30	1.22	2.41	0.08	0.39	0.88	1.14	12.29
1961	0.	0.	0.67	0.40	1.55	1.72	3.57	2.02	0.11	0.37	0.81	0.27	11.49
1962	0.	0.	0.46	0.49	1.27	2.19	3.02	2.00	0.02	0.39	1.00	0.32	11.17
1963	0.	0.	0.	0.83	1.27	1.03	3.79	2.60	0.05	0.28	1.37	0.48	11.71
1964	1.52	0.	0.34	0.43	1.90	2.58	2.41	2.95	0.08	0.33	0.85	0.	13.89
1965	0.97	0.	0.81	0.49	2.29	1.66	4.48	1.83	0.23	0.44	1.37	0.	14.56
1966	0.57	0.22	0.48	0.55	2.23	1.93	1.58	1.52	0.07	0.32	0.89	0.	10.86
1967	0.	0.30	1.05	0.57	1.77	1.70	4.05	3.55	0.10	0.22	0.76	0.40	14.46
1968	0.	1.30	0.	0.80	1.74	1.51	2.09	1.65	0.05	0.18	0.69	0.36	10.88
1969	0.97	0.65	1.10	0.33	0.97	2.73	2.45	1.20	0.09	0.20	0.79	0.	11.47
1970	0.	0.89	1.17	0.37	1.66	1.22	3.36	1.57	0.08	0.28	0.73	0.27	11.58
1971	0.	0.	0.74	0.56	1.57	1.14	3.85	1.72	0.15	0.28	0.	0.76	10.77
1972	0.04	0.93	1.66	0.53	1.79	1.96	3.95	2.88	0.10	0.34	1.11	0.48	15.96
1973	0.22	0.06	0.70	0.28	1.06	2.00	3.18	1.96	0.08	0.29	1.20	0.	11.04
1974	2.67	0.	1.96	0.87	2.06	1.24	3.16	1.77	0.01	0.28	0.83	1.11	15.96
1975	0.02	0.	0.74	0.52	1.65	2.44	2.45	0.69	0.01	0.30	0.45	0.	9.46
1976	0.	1.38	1.71	0.40	2.01	1.66	2.03	2.62	0.27	0.37	1.23	0.02	13.69
1977	0.	0.	0.	0.24	1.86	1.83	2.49	1.95	0.12	0.22	0.97	0.	9.68
1978	0.	0.43	0.76	0.67	1.77	1.79	3.53	2.38	0.05	0.28	0.96	0.	12.62
1979	0.	0.85	1.39	0.23	2.35	1.58	2.72	2.59	0.	0.27	0.43	0.	12.41
AVERAGE	0.37	0.37	0.89	0.50	1.75	1.76	2.98	2.09	0.09	0.30	0.87	0.28	12.22

Table 90 IRRIGATION WATER DEMAND FOR MAJOR SCHEME IN BASIN 213 IN 2000

Unit: 10^6 m^3

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1960	0.	2.62	13.21	1.46	7.06	6.39	5.29	10.36	3.22	1.84	5.14	0.	56.59
1961	2.73	4.47	6.82	2.17	5.60	3.93	4.91	6.44	2.35	2.02	10.59	0.	52.02
1962	0.	0.98	0.	0.41	8.06	0.53	5.40	6.60	0.	2.28	6.98	0.	31.24
1963	0.	0.	0.42	2.02	8.00	0.86	7.13	5.40	2.95	1.92	11.25	3.28	38.22
1964	9.49	0.22	6.44	0.90	8.46	0.24	9.11	4.91	3.22	2.38	10.44	1.80	57.61
1965	3.05	0.	0.	1.01	6.16	0.	4.91	3.82	0.	2.26	6.17	3.17	30.53
1966	0.87	4.15	7.96	2.00	6.96	3.22	5.45	4.75	2.67	2.55	11.92	4.96	57.47
1967	0.	0.44	4.81	1.95	7.42	0.	5.67	7.56	4.09	2.17	1.75	0.	35.67
1968	0.	11.56	14.07	2.43	7.68	4.92	5.95	7.56	7.75	2.38	11.77	0.01	75.68
1969	6.98	5.35	10.35	2.18	8.78	0.	5.56	6.55	7.45	2.16	7.20	0.11	57.66
1970	1.20	10.25	7.20	0.95	7.02	0.20	4.09	4.15	5.89	2.22	5.14	0.	48.31
1971	0.	0.	10.16	2.39	7.54	2.80	11.29	4.75	1.96	2.00	4.63	0.	47.51
1972	2.51	4.15	0.	2.11	7.38	5.11	4.53	3.98	3.49	2.24	8.31	8.02	51.83
1973	12.76	19.75	9.87	0.90	8.90	2.84	7.20	7.36	1.15	1.90	10.22	2.96	85.82
1974	6.55	0.	8.92	1.06	7.08	5.68	4.91	7.75	8.62	2.19	5.88	0.	58.60
1975	0.	5.78	4.81	1.27	5.96	0.43	2.07	2.56	3.38	2.36	5.80	1.59	36.03
1976	0.	0.	5.10	2.15	8.98	4.06	6.11	10.75	7.09	2.65	7.94	0.	56.83
1977	0.	0.	11.69	2.22	7.54	4.55	5.24	13.51	0.71	2.28	10.00	1.06	58.59
1978	0.	4.80	5.67	0.76	7.88	0.	11.02	2.67	4.36	0.93	0.	0.	38.10
1979	0.	1.20	0.	0.	6.40	0.	0.	1.09	0.	0.22	0.	0.	8.91
AVERAGE	2.31	3.79	6.38	1.52	7.43	2.39	5.54	4.10	3.27	2.05	7.06	1.35	49.16

Table 91 IRRIGATION WATER DEMAND FOR MAJOR SCHEME IN BASIN 229 IN 2000

Unit: 10^6 m^3

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1960	9.23	0.	5.13	11.35	8.06	15.48	5.06	0.51	11.12	2.50	0.	7.19	75.63
1961	13.29	0.	4.16	14.52	13.20	14.07	11.49	1.54	13.19	2.91	6.44	2.35	99.16
1962	0.	6.57	3.11	7.23	1.41	12.67	19.15	0.	12.61	5.35	4.22	5.63	77.95
1963	0.	0.	3.76	26.02	25.89	22.36	13.82	0.	12.56	0.	4.69	9.23	118.32
1964	10.95	2.03	4.13	5.12	6.40	10.63	0.	0.90	7.57	0.	0.	6.88	54.60
1965	0.	0.	2.92	6.71	0.	20.01	19.57	0.33	13.30	0.	0.	0.78	63.63
1966	7.19	3.44	3.87	11.88	15.77	13.74	11.77	0.	14.56	0.	0.	0.	82.24
1967	0.	0.	4.17	12.72	3.86	7.35	12.86	1.78	9.92	0.	1.09	0.	58.26
1968	0.	0.	2.78	7.66	0.	0.31	4.79	0.	10.38	0.	10.01	4.85	40.77
1969	7.51	0.	4.13	18.42	3.98	11.73	11.08	0.	16.05	0.	0.	6.41	79.81
1970	0.	5.00	3.61	14.94	2.62	12.35	16.01	0.45	10.84	0.	0.	3.28	69.10
1971	7.97	0.	4.44	21.17	8.96	20.01	22.16	0.	9.12	0.	2.19	12.35	108.39
1972	0.	1.02	3.91	3.33	12.89	12.98	22.44	1.43	12.21	0.	0.	0.	70.21
1973	24.24	7.27	3.87	1.96	3.22	0.	7.52	0.	6.02	0.88	4.22	6.10	65.80
1974	0.	0.	4.00	11.67	7.45	14.07	5.61	0.	6.76	2.28	3.91	1.88	55.58
1975	0.	3.75	4.30	18.11	0.	10.63	6.84	0.45	9.12	2.10	2.03	7.82	65.14
1976	0.	0.	4.59	16.10	6.70	14.07	17.51	0.35	17.60	0.	4.22	6.88	88.02
1977	0.	5.08	3.22	15.47	4.09	6.25	11.63	1.37	15.19	0.	0.	0.	64.81
1978	0.	6.25	4.33	16.94	0.	9.69	6.29	0.74	11.58	4.13	3.40	6.72	70.29
1979	23.45	0.39	4.08	14.41	16.07	4.38	5.34	0.23	8.66	0.	0.	4.85	81.86
AVERAGE	5.19	2.04	3.93	12.79	7.35	11.64	11.55	0.50	11.32	1.00	2.43	4.66	74.40

Table 92 IRRIGATION WATER DEMAND FOR MAJOR SCHEME IN BASIN 241 IN 2000

Unit: 10^6 m^3

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1960	0.	0.	2.28	0.36	4.62	4.58	2.25	1.55	4.29	5.78	5.24	0.	30.94
1961	0.09	0.	2.49	0.58	3.38	4.33	3.16	2.07	2.71	5.99	1.82	0.	24.63
1962	0.	0.	2.04	1.84	3.31	3.24	3.45	1.67	4.29	4.23	2.76	2.84	29.66
1963	0.	0.	2.59	3.17	2.65	6.51	1.53	1.89	4.68	4.23	3.42	3.13	33.79
1964	0.92	0.	3.11	0.	2.69	4.22	0.44	1.63	4.87	4.02	2.11	1.38	25.88
1965	2.32	0.	2.96	2.03	2.73	4.47	3.38	1.39	4.35	0.	5.24	1.89	32.75
1966	0.	0.	1.81	0.11	4.69	3.53	2.36	1.27	5.86	2.12	5.38	0.	27.13
1967	0.	0.	1.59	1.46	2.15	3.27	3.93	1.51	4.43	0.36	0.	1.82	20.52
1968	0.66	0.59	1.89	1.09	1.38	4.47	1.96	1.70	5.61	0.	5.67	0.	25.04
1969	1.49	0.	2.25	0.93	3.67	2.33	4.04	1.09	7.67	2.19	1.31	0.	26.97
1970	0.	0.	2.55	0.30	2.87	4.76	1.71	1.41	4.38	7.18	5.93	4.00	34.69
1971	0.	0.	2.33	0.	4.44	4.98	3.96	1.26	5.66	3.74	4.07	2.47	32.92
1972	0.	0.	4.11	0.08	4.80	6.18	4.11	1.67	5.17	1.28	6.04	3.64	37.07
1973	2.19	0.	2.49	0.90	2.95	2.51	3.64	1.25	3.01	3.11	7.78	2.69	32.51
1974	3.65	0.	2.65	2.22	2.98	2.76	1.71	1.83	1.39	6.97	5.53	2.55	34.25
1975	1.94	0.	2.73	0.93	2.80	5.16	3.64	1.19	2.91	3.18	1.89	0.29	26.65
1976	0.	0.	2.67	0.33	5.13	4.55	4.65	1.49	4.38	2.75	4.36	0.	30.32
1977	0.	0.	2.44	0.33	1.53	3.71	4.95	1.15	5.46	0.86	4.65	3.35	28.42
1978	0.	0.35	1.19	1.72	3.65	4.04	3.45	1.93	3.55	4.16	4.44	1.31	29.18
1979	1.87	0.24	2.24	0.	4.69	2.69	3.49	1.36	1.24	3.04	3.44	3.85	28.35
AVERAGE	0.76	0.06	2.42	0.92	3.33	4.11	3.09	1.52	4.40	3.26	4.04	1.76	29.66

Table 93 IRRIGATION WATER DEMAND FOR MAJOR SCHEME IN BASIN 244 IN 2000

Unit: 10^6 m^3

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1960	0.	0.	3.01	0.23	4.62	5.71	0.02	1.71	4.52	4.87	3.35	0.	29.52
1961	2.91	0.	3.16	1.68	3.42	4.80	2.25	1.77	6.58	11.13	5.82	4.65	48.17
1962	0.	0.23	2.49	0.79	2.51	3.67	2.11	1.87	4.22	2.97	5.16	3.56	29.40
1963	0.	0.	2.97	4.04	4.36	5.67	3.60	2.19	6.38	8.04	5.82	7.04	50.72
1964	0.	0.	3.55	0.79	4.47	4.15	1.85	2.21	4.78	0.80	5.67	3.71	38.98
1965	3.99	0.	3.47	0.13	2.95	2.84	4.65	1.59	10.21	3.68	5.82	0.95	40.27
1966	0.	0.	2.97	0.	1.89	2.65	2.00	1.68	6.97	2.18	4.51	4.44	29.25
1967	0.	0.	2.88	0.86	2.73	4.04	5.13	2.25	6.40	4.73	2.04	2.25	35.30
1968	5.20	0.82	3.52	3.25	2.29	4.40	1.93	1.80	7.66	3.61	2.83	3.13	39.93
1969	4.56	0.14	3.57	0.51	1.24	3.45	4.55	1.35	9.33	3.68	3.64	5.60	41.61
1970	3.42	0.51	3.13	0.04	2.40	3.83	1.24	1.69	8.03	3.68	4.95	5.45	34.38
1971	2.53	0.	3.49	2.94	4.84	5.35	4.00	1.35	4.66	5.08	4.51	0.	38.74
1972	2.85	0.16	3.60	0.51	3.27	3.96	6.29	1.67	8.44	7.26	1.53	4.78	44.28
1973	4.12	0.	2.97	0.	1.85	4.73	3.78	1.85	5.99	0.	5.75	0.	31.04
1974	7.49	0.	3.56	0.29	2.80	3.45	4.25	2.03	2.85	4.66	5.16	4.44	40.99
1975	3.23	0.	3.80	1.17	4.36	2.07	0.36	1.75	5.70	3.68	0.07	0.	26.20
1976	2.27	0.	3.60	0.86	3.31	3.60	2.47	2.08	8.10	2.76	2.98	0.	32.04
1977	2.02	0.	3.84	1.39	3.16	8.13	1.40	1.67	9.87	1.99	4.22	0.80	33.48
1978	1.13	0.	2.79	2.12	2.76	3.82	0.98	1.85	5.30	4.59	3.05	0.51	28.90
1979	2.15	0.	3.79	1.27	1.96	1.53	4.44	1.81	5.70	4.86	4.00	3.20	34.64
AVERAGE	2.39	0.09	3.35	1.14	3.06	3.84	2.91	1.81	6.58	4.21	4.02	2.75	34.16

Table 94 IRRIGATION WATER DEMAND FOR MAJOR SCHEME IN BASIN 245 IN 2000

Unit: 10^6 m^3

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1960	0.	0.	5.21	0.56	3.21	1.41	1.13	3.46	0.	1.29	2.95	2.25	21.46
1961	0.	0.	0.50	0.59	2.71	2.18	5.45	2.73	0.12	1.38	2.71	0.	18.38
1962	0.	0.	0.	0.76	2.20	3.06	4.44	2.70	0.	1.42	3.39	0.	17.96
1963	0.	0.	0.	1.39	2.20	0.91	5.85	3.81	0.	1.05	4.77	0.	19.98
1964	3.35	0.	0.	0.64	3.35	3.76	3.31	4.45	0.01	1.23	2.85	0.	22.85
1965	1.31	0.	1.01	0.75	4.06	2.07	7.13	2.38	0.56	1.61	4.77	0.	25.66
1966	0.	0.	0.	0.87	3.97	2.57	1.78	1.81	0.	1.19	3.00	0.	15.18
1967	0.	0.	1.90	0.91	3.11	2.14	6.33	5.56	0.06	0.82	2.51	0.	23.34
1968	0.	2.76	0.	1.32	3.06	1.79	2.73	2.06	0.	0.64	2.26	0.	16.45
1969	1.31	0.36	2.09	0.47	1.83	4.04	3.38	1.24	0.03	0.73	2.61	0.	17.89
1970	0.	1.24	2.35	0.53	2.91	1.27	5.05	1.90	0.	1.01	2.41	0.	18.67
1971	0.	0.	0.75	0.88	2.74	1.12	5.96	2.19	0.25	1.04	0.	0.85	15.80
1972	0.	1.38	4.89	0.03	3.16	2.64	6.15	4.32	0.06	1.25	3.79	0.	28.46
1973	0.	0.	0.63	0.37	1.81	2.71	4.73	2.64	0.02	1.07	4.13	0.	18.10
1974	7.56	0.	5.27	1.45	3.65	1.30	4.49	2.29	0.	1.04	2.76	2.11	32.12
1975	0.	0.	0.75	0.80	2.89	3.52	3.75	0.28	0.	1.11	1.38	0.	14.48
1976	0.	3.05	4.32	0.60	3.55	2.07	2.62	3.85	0.71	1.35	4.23	0.	26.34
1977	0.	0.	0.	0.30	3.28	2.39	3.45	2.60	0.15	0.81	3.30	0.	16.29
1978	0.	0.	0.82	1.09	3.11	2.32	5.38	3.40	0.	1.02	3.25	0.	20.38
1979	0.	1.09	3.17	0.28	4.19	1.93	3.89	3.78	0.	0.98	1.28	0.	20.60
AVERAGE	0.68	0.49	1.68	0.77	3.04	2.26	4.36	2.87	0.10	1.10	2.92	0.26	20.53

Table 95 IRRIGATION WATER DEMAND FOR MAJOR SCHEME IN BASIN 246 IN 2000

Unit: 10^6 m^3

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1960	0.	0.	7.81	0.45	2.56	1.12	0.90	2.77	0.	1.93	4.43	3.38	25.36
1961	0.	0.	0.75	0.47	2.17	1.74	4.36	2.19	0.18	2.07	4.06	0.	17.99
1962	0.	0.	0.	0.61	1.76	2.45	3.55	2.16	0.	2.13	5.09	0.	17.74
1963	0.	0.	0.	1.11	1.76	0.73	4.68	3.05	0.	1.57	7.15	0.	20.06
1964	5.02	0.	0.	0.51	2.68	3.01	2.65	3.56	0.01	1.84	4.28	0.	23.36
1965	1.96	0.	1.51	0.60	3.25	1.66	5.70	1.91	0.85	2.42	7.15	0.	27.01
1966	0.	0.	0.	0.69	3.17	2.05	1.43	1.45	0.	1.79	4.50	0.	15.08
1967	0.	0.	2.85	0.73	2.49	1.72	5.06	4.45	0.10	1.23	3.76	0.	22.38
1968	0.	4.15	0.	1.06	2.45	1.43	2.18	1.65	0.	0.99	3.40	0.	17.30
1969	1.96	0.55	3.14	0.37	1.31	3.23	2.71	0.99	0.04	1.10	3.91	0.	19.31
1970	0.	1.85	3.52	0.42	2.33	1.01	4.04	1.52	0.	1.52	3.62	0.	19.84
1971	0.	0.	1.13	0.71	2.19	0.90	4.77	1.75	0.38	1.56	0.	1.27	14.66
1972	0.	2.07	7.34	0.66	2.53	2.11	4.92	3.46	0.10	1.87	5.68	0.	30.72
1973	0.	0.	0.94	0.30	1.45	2.17	3.78	2.11	0.03	1.61	6.19	0.	18.57
1974	11.35	0.	7.91	1.16	2.92	1.04	3.75	1.83	0.	1.56	4.13	3.17	38.81
1975	0.	0.	1.13	0.64	2.31	2.81	3.00	0.23	0.	1.67	2.07	0.	13.86
1976	0.	4.58	6.48	0.48	2.84	1.66	2.09	3.08	1.06	2.02	6.34	0.	30.63
1977	0.	0.	0.	0.24	2.62	1.91	2.76	2.08	0.23	1.22	4.94	0.	16.02
1978	0.	0.	1.23	0.87	2.49	1.86	4.31	2.72	0.	1.53	4.87	0.	19.86
1979	0.	1.64	4.76	0.22	3.35	1.55	3.11	3.03	0.	1.47	1.92	0.	21.04
AVERAGE	1.01	0.74	2.52	0.62	2.43	1.61	3.49	2.30	0.15	1.66	4.38	0.39	21.49

Table 96 ESTIMATED IRRIGATION WATER DEMAND FOR PADDY BY BASIN IN SABAH

Unit: 10^6 m^3/y

Basin No.	Basin Name	Scheme	1980	1990	2000
201-212	Tawau+	-	-	-	-
213	Labuk	Major	-	-	49
		Minor	29	32	9
214	Sugut	Minor	14	13	13
215	Paitan	-	-	-	-
216	Bengkoka	Minor	6	18	25
217	Bongan	Minor	27	76	76
218	Kadamaian	Minor	110	126	135
219	Tuaran	Minor	45	43	43
220	Putatan	Minor	30	37	37
221	Papar	Minor	36	45	45
222	Kimanis	Minor	1	31	31
223	Membakut	Minor	1	16	16
224	Padas	Minor	56	117	150
225	Labuan	-	-	-	-
226	Lakutan	Minor	15	15	15
Total			370	569	644

Table 97 ESTIMATED IRRIGATION WATER DEMAND FOR PADDY BY BASIN IN SARAWAK

Unit: $10^6 m^3/y$

Basin No.	Basin	Scheme	1980	1990	2000
227	Lawas	Minor	-	5	5
228	Trusan	Minor	-	6	17
229	Limbang	Major	-	27	74
		Minor	1	4	4
230	Baram	Minor	2	28	78
231	Miri	Minor	-	2	2
232	Sibuti	Minor	5	11	11
233-235	Niah+	-	-	-	-
236	Kemena	Minor	-	14	38
237	Tatau	Minor	-	3	3
238	Balingian	Minor	-	-	4
239	Mukah	Minor	-	6	6
240	Oya	Minor	-	4	7
241	Rajang	Major	-	-	30
		Minor	1	13	22
242	Kerian	-	-	-	-
243	Sarabas	Minor	-	2	2
244	Lupar	Major	-	-	36
		Minor	3	20	49
245	Sadong	Major	-	10	21
		Minor	0	6	16
246	Sarawak	Major	-	21	21
		Minor	-	8	24
247	Kayan	Minor	2	6	12
	Total		14	196	482

Table 98 RATIO OF NET WITHDRAWAL TO GROSS DEMAND FOR MINOR IRRIGATION AREAS IN SABAH AND SARAWAK

Sabah			Sarawak		
	Ratio			Ratio	
Basin No.	1990	2000	Basin No.	1990	2000
201 - 212	-	-	227	1.0	1.0
213	0.8	0.8	228	1.0	1.0
214	0.8	0.8	229	1.0	1.0
215	-	-	230	1.0	1.0
216	0.85	0.85	231	1.0	1.0
217	0.81	0.81	232	1.0	1.0
218	0.86	0.86	233 - 235	-	-
219	0.83	0.83	236	1.0	1.0
220	0.82	0.82	237	1.0	1.0
221	0.84	0.84	238	1.0	1.0
222	0.83	0.83	239	1.0	1.0
223	0.93	0.93	240	1.0	1.0
224	0.83	0.83	241	1.0	1.0
225	0.83	0.83	242	1.0	1.0
226	0.85	0.85	243	1.0	1.0
			244	1.0	1.0
			245	1.0	1.0
			246	1.0	1.0
			247	1.0	1.0

Table 99 NET IRRIGATION WATER WITHDRAWAL BY BASIN IN SABAH

Unit: 10^6 m^3/y

Basin No.	Basin Name	Scheme	1980	1990	2000
201-212	Tawau+	-	-	-	-
213	Labuk	Major	-	-	49
		Minor	23	26	7
214	Sugut	Minor	11	10	10
215	Paitan	-	-	-	-
216	Bengkoka	Minor	5	15	21
217	Bongan	Minor	22	62	62
218	Kadamaian	Minor	95	108	116
219	Tuaran	Minor	37	36	36
220	Putatan	Minor	25	30	30
221	Papar	Minor	30	38	38
222	Kimanis	Minor	1	26	26
223	Membakut	Minor	1	15	15
224	Padas	Minor	46	97	125
225	Labuan	-	-	-	-
226	Lakutan	Minor	13	13	13
Total			370	569	644

Table 100 ESTIMATED INITIAL INVESTMENT COST OF MAJOR IRRIGATION PROJECTS AS OF END 1980

	Kinabatangan/1	Limbang Valley/2	Lower Samarahan/3
Development Area (ha)	44,000	8,600	1,530
Cost per ha (M$/ha)			
Preparatory works	922		(Control drainage scheme)
Clearing and levelling	3,141		
Irrigation and drainage systems and farm roads	6,094		
Sub-total	10,157		
Resettlement cost	719		
Land acquisition	110		
Engineering service (10%)	1,099		
Total cost	12,085	12,757	2,949

Remarks; Physical contingency is not included in the above construction cost.

Source; /1: Ref. 1, /2: Ref. 2, /3: Ref. 3

Table 101 TYPE OF IRRIGATION DEVELOPMENT

Type	Without Project	With Project
A	Rainfed paddy	Irrigated single cropped paddy (Minor scheme)
B	Rainfed paddy	Irrigated double cropped paddy (Minor scheme)
C	Irrigated single cropped paddy (Minor scheme)	Irrigated double cropped paddy (Minor scheme)
D	New reclaimed land	Irrigated single cropped paddy (Minor scheme)
E	New reclaimed land	Irrigated double cropped paddy (Minor scheme)
F	Rainfed paddy	Irrigated single cropped paddy (Major scheme)
G	Rainfed paddy	Irrigated double cropped paddy (Major scheme)
H	Irrigated single cropped paddy (Major scheme)	Irrigated double cropped paddy (Major scheme)
I	New reclaimed land	Irrigated single cropped paddy (Major scheme)
J	New reclaimed land	Irrigated double cropped paddy (Major scheme)
K	Irrigated single cropped paddy (Minor scheme)	Irrigated double cropped paddy (Major scheme)
L	Irrigated double cropped paddy (Minor scheme)	Irrigated double cropped paddy (Major scheme)
M	Rainfed paddy	Non-paddy field
N	Irrigated paddy	Tertiary Development
O	Rainfed paddy	Control drainage scheme

Table 102 DEVELOPMENT AREA OF MAJOR IRRIGATION PROJECT BY TYPE

Name of Project	Basin No.	Type of Scheme	Irrigation Area (ha) 4MP	5MP	6MP	7MP	Total
Lower Labuk	213	I	-	-	1,410	1,420	2,830
		J	-	-	610	610	1,220
		K	-	-	1,210	-	1,210
		L	-	-	570	-	570
	Sub-total		-	-	3,800	2,030	5,830
Limbang	229	J	400	2,700	2,750	2,750	8,600
Binatang Barat	241	F	-	-	1,000	1,000	2,000
		G	-	-	1,000	1,000	2,000
	Sub-total		-	-	2,000	2,000	4,000
Batang Lupor	244	F	-	-	1,000	1,000	2,000
		G	-	-	1,000	1,000	2,000
	Sub-total		-	-	2,000	2,000	4,000
Sadong Krang	245	F	-	800	600	600	2,000
		G	514	486	500	500	2,000
	Sub-total		514	1,286	1,100	1,100	4,000
Samarakan	246	F	-	1,400	-	-	1,400
		G	600	1,000	-	-	1,600
		I	-	-	1,500	1,500	3,000
		O	-	1,500	2,000	2,500	6,000
	Sub-total		600	3,900	3,500	4,000	12,000
Total			1,514	7,886	15,150	13,880	38,430

Table 103 DEVELOPMENT AREA OF MINOR IRRIGATION SCHEMES BY TYPE IN SABAH

Basin No.	Type of Scheme	Irrigation Area (ha) 4MP	5MP	6MP	7MP	Total
213	D	-	290	-	-	290
	E	-	48	-	-	48
	Sub-total	-	338	-	-	338
216	A	-	110	-	-	110
	B	192	-	-	-	192
	D	-	-	240	250	490
	E	-	226	-	-	226
	Sub-total	192	336	240	250	1,018
217	A	218	200	-	-	418
	B	851	800	-	-	1,651
	Sub-total	1,069	1,000	-	-	2,069
218	B	376	-	-	-	376
	C	-	12	218	-	230
	E	-	297	255	-	552
	Sub-total	376	309	473	-	1,158
220	A	80	80	-	-	160
	B	122	121	-	-	243
	Sub-total	202	201	-	-	403
221	B	242	242	-	-	484
222	B	621	622	-	-	1,243
	D	-	800	-	-	800
	E	-	307	-	-	307
	Sub-total	621	1,729	-	-	2,350
223	A	107	-	-	-	107
	B	-	586	-	-	586
	D	-	481	-	-	481
	Sub-total	107	1,067	-	-	1,174
224	A	-	2,626	-	-	2,626
	B	975	-	-	-	975
	D	-	-	959	959	1,918
	E	-	-	237	-	237
	Sub-total	975	2,626	1,196	959	5,756
Total for Sabah		3,784	7,848	1,909	1,209	14,750

Table 104 DEVELOPMENT AREA OF MINOR IRRIGATION SCHEMES BY TYPE IN SARAWAK (1/2)

Basin No.	Type of Scheme	Irrigation Area (ha) 4MP	5MP	6MP	7MP	Total
227	B	288	-	-	-	288
	E	20	100	-	-	120
	Sub-total	308	100	-	-	408
228	B	-	540	349	540	1,429
	O	-	-	189	-	189
	Sub-total	-	540	538	540	1,618
229	B	-	104	-	-	104
230	B	-	1,252	1,250	1,219	3,721
231	B	-	108	-	-	108
232	O	-	192	192	192	576
236	B	-	962	962	742	2,666
	O	-	-	-	219	219
	Sub-total	-	962	962	961	2,885
237	B	-	182	-	-	182
238	B	-	-	128	129	257
239	B	-	418	-	-	418
	O	-	-	364	364	728
	Sub-total	-	418	364	364	1,146
240	B	-	266	266	-	532
	O	-	-	-	304	304
	Sub-total	-	266	266	304	836
241	B	820	-	335	336	1,491
	O	2,478	1,332	481	480	4,771
	Sub-total	3,298	1,332	816	816	6,262
242	O	1,356	482	482	481	2,801
243	B	-	126	-	-	126
	O	-	513	639	640	1,792
	Sub-total	-	639	639	640	1,918

Table 105 DEVELOPMENT AREA OF MINOR IRRIGATON SCHEMES BY TYPE IN SARAWAK (2/2)

Basin No.	Type of Scheme	Irrigation Area (ha) 4MP	5MP	6MP	7MP	Total
244	A	-	100	-	-	100
	B	-	872	960	959	2,791
	O	739	558	586	587	2,470
	Sub-total	739	1,530	1,546	1,546	5,361
245	B	-	458	-	-	458
	C	-	40	457	457	954
	Sub-total	-	498	457	457	1,412
246	B	-	707	707	709	2,123
247	B	-	297	297	298	892
Total for Sarawak		5,701	9,609	8,644	8,656	32,610

Table 106 INVESTMENT COST OF MAJOR IRRIGATION PROJECT BY TYPE

Name of Project	Basin No.	Type of Scheme	Area (ha)	Investment Cost (M$10^6) 4MP	5MP	6MP	7MP	Total
Lower Labuk	213	I	2,830	-	-	22.6	22.7	45.3
		J	1,220	-	-	9.8	9.8	19.6
		K	1,210	-	-	9.7	-	9.7
		L	570	-	-	-	-	-
	Sub-total		5,830	-	-	42.1	32.5	74.6
Limbang Valley	229	J	8,600	6.4	111.1*	44.0	44.0	205.5
Binatang Barat	241	F	2,000	-	-	14.8	14.8	29.6
		G	2,000	-	-	14.8	14.8	29.6
	Sub-total		4,000	-	-	29.6	29.6	59.2
Batang Lupor	244	F	2,000	-	-	14.8	14.8	29.6
		G	2,000	-	-	14.8	14.8	29.6
	Sub-total		4,000	-	-	29.6	29.6	59.2
Sadong Krang	245	F	2,000	-	11.8	8.9	8.9	29.6
		G	2,000	7.6	7.2	7.4	7.4	29.6
	Sub-total		4,000	7.6	19.0	16.3	16.3	59.2
Samarahan	246	F	1,400	-	20.7	-	-	20.7
		G	1,600	8.9	14.8	-	-	23.7
		I	3,000	-	-	24.0	24.0	48.0
		O	6,000	-	6.0	8.0	10.0	24.0
	Sub-total		12,000	8.9	41.5	32.0	34.0	116.4
Total			38,430	22.9	171.6	193.6	186.0	574.1

Remarks; Including the dam cost of M$67.9 x 10^6.

Table 107 INVESTMENT COST OF MINOR IRRIGATION SCHEMES BY TYPE (1/3)

State	Basin No.	Type of Scheme	Area (ha)	Investment Cost ($M\$10^6$) 4MP	5MP	6MP	7MP	Total
SABAH	213	D	290	-	4.6	-	-	4.6
		E	48	-	0.8	-	-	0.8
		Sub-total	338	-	5.4	-	-	5.4
	216	A	110	-	1.6	-	-	1.6
		B	192	2.8	-	-	-	2.8
		D	490	-	-	3.8	4.0	7.8
		E	226	-	3.6	-	-	3.6
		Sub-total	1,018	2.8	5.2	3.8	4.0	15.8
	217	A	418	3.2	3.0	-	-	6.2
		B	1,651	12.6	11.8	-	-	24.4
		Sub-total	2,069	15.8	14.8	-	-	30.6
	218	B	376	5.6	-	-	-	5.6
		C	230	-	0.1	1.7	-	1.8
		E	552	-	4.8	4.1	-	8.9
		Sub-toal	1,158	5.6	4.9	5.8	-	16.3
	220	A	160	1.2	1.2	-	-	2.4
		B	243	1.8	1.8	-	-	3.6
		Sub-total	403	3.0	3.0	-	-	6.0
	221	B	484	3.6	3.6	-	-	7.2
	222	B	1,243	9.2	9.2	-	-	18.4
		D	800	-	12.8	-	-	12.8
		E	307	-	4.9	-	-	4.9
		Sub-total	2,350	9.2	26.9	-	-	36.1
	223	A	107	1.6	-	-	-	1.6
		B	586	-	8.7	-	-	8.7
		D	481	-	7.7	-	-	7.7
		Sub-total	1,174	1.6	16.4	-	-	18.0
	224	A	2,626	-	38.9	-	-	38.9
		B	975	14.4	-	-	-	14.4
		D	1,918	-	-	15.3	15.3	30.6
		E	237	-	-	3.8	-	3.8
		Sub-total	5,756	14.4	38.9	19.1	15.3	87.7
	Total for Sabah		14,750	56.0	119.1	28.7	19.3	223.1

Table 108 INVESTMENT COST OF MINOR IRRIGATION SCHEMES BY TYPE (2/3)

State	Basin No.	Type of Scheme	Area (ha)	Investment Cost (M$10^6) 4MP	5MP	6MP	7MP	Total
SARAWAK	227	B	288	4.3	-	-	-	4.3
		E	120	0.3	1.6	-	-	1.9
		Sub-total	408	4.6	1.6	-	-	6.2
	228	B	1,429	-	8.0	5.2	8.0	21.2
		O	189	-	-	0.8	-	0.8
		Sub-total	1,618	-	8.0	6.0	8.0	22.0
	229	B	104	-	1.5	-	-	1.5
	230	B	3,721	-	18.5	18.5	18.0	55.0
	231	B	108	-	1.6	-	-	1.6
	232	O	576	-	0.8	0.8	0.8	2.4
	236	B	2,666	-	14.2	14.2	11.0	39.4
		O	219	-	-	-	0.9	0.9
		Sub-total	2,885	-	14.2	14.2	11.9	40.3
	237	B	182	-	2.7	-	-	2.7
	238	B	257	-	-	1.9	1.9	3.8
	239	B	418	-	6.2	-	-	6.2
		O	728	-	-	1.5	1.5	3.0
		Sub-total	1,146	-	6.2	1.5	1.5	9.2
	240	B	532	-	3.9	3.9	-	7.8
		O	304	-	-	-	1.2	1.2
		Sub-total	836	-	3.9	3.9	1.2	9.0
	241	B	1,491	12.1	-	5.0	5.0	22.1
		O	4,771	9.9	5.3	1.9	1.9	19.0
		Sub-total	6,262	22.0	5.3	6.9	6.9	41.1
	242	O	2,801	5.4	1.9	1.9	1.9	11.1
	243	B	126	-	1.9	-	-	1.9
		O	1,792	-	2.1	2.6	2.6	7.3
		Sub-total	1,918	-	4.0	2.6	2.6	9.2

Table 109 INVESTMENT COST OF MINOR IRRIGATION SCHEMES BY TYPE (3/3)

State	Basin No.	Type of Scheme	Area (ha)	Investment Cost (M10^6) 4MP	5MP	6MP	7MP	Total
SARAWAK	244	A	100	-	1.5	-	-	1.5
		B	2,791	-	12.9	14.2	14.2	41.3
		O	2,470	3.0	2.2	2.3	2.3	9.8
		Sub-total	5,361	3.0	16.6	16.5	16.5	52.6
	245	B	458	-	6.8	-	-	6.8
		C	954	-	0.3	3.7	3.7	7.7
		Sub-total	1,412	-	7.1	3.7	3.7	14.5
	246	B	2,123	-	10.5	10.5	10.5	31.5
	247	B	892	-	4.4	4.4	4.4	13.2
	Total for Sarawak		32,610	35.0	108.8	93.3	89.8	326.9
Total for Sabah & Sarawak			46,360	91.0	227.9	122.0	109.1	550.0

Table 110 CLASSIFICATION OF MANPOWER

Grade	Category
A	Engineer, Superscale F Engineer, Superscale G Engineer, Senior Timescale Engineer, Timescale Quantity Surveyor
B	Technical Assistant, Special Grade Technical Assistant, Timescale
C	Special Grade Technician Timescale Technician Draftsman Grade I Draftsman Grade II
C	Stenographer Clerk Storekeeper
D	Typist Junior Clerk Junior Storekeeper Office Boy Drivers I.M.G.

Table 111 NUMBER OF POSTS IN STATE DID

Unit: persons

State	Grade A	Grade B	Grade C	Grade D	Date of Information
Sabah	16	24	72	278	1980
Sarawak	17	13	45	230	1980
Total	33	37	117	508	

Remarks; Grade A: Engineer, B: Technical Assistant,
C: Technician, D: Others

Table 112 ASSUMED CALCULATION STANDARD FOR MANPOWER REQUIREMENT FOR IRRIGATION DEVELOPMENT

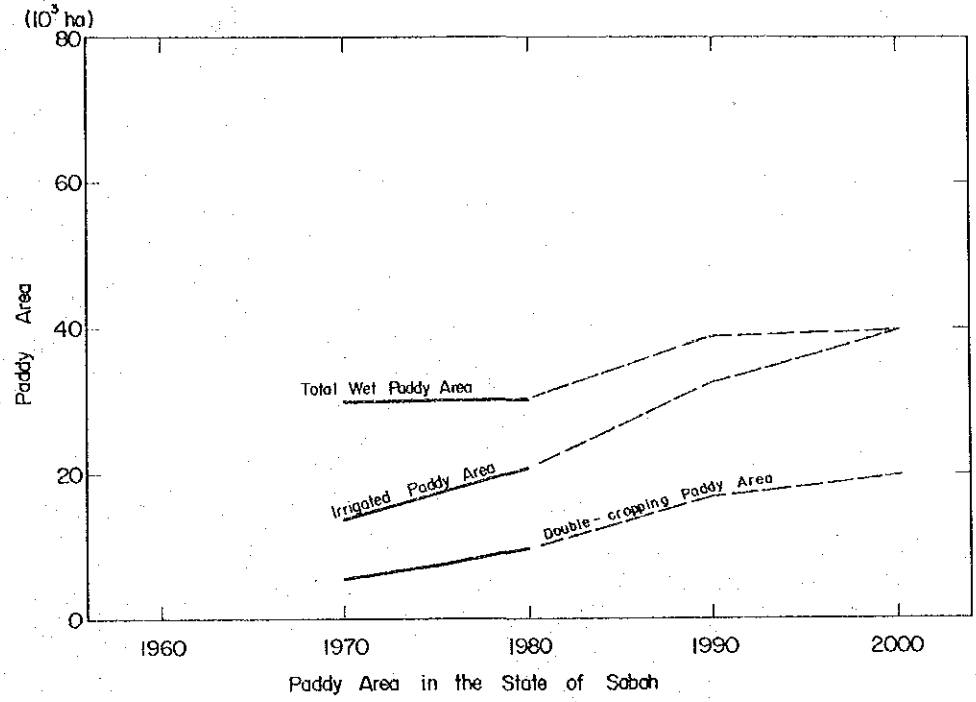
Grade		Construction: Major Scheme (person/scheme)	Construction: Minor Scheme (person/10^3 ha)	O & M (person/10^3 ha)
A	Engineer	1	0.5	0.5
B	Technical Assistant	3	1	1
C	Technician	6	4	5
D	Others	12	8	50

Table 113 ESTIMATED MANPOWER REQUIREMENT FOR IRRIGATION DEVELOPMENT

Unit: persons

Category	Sabah				Sarawak				Sabah and Sarawak			
	4MP	5MP	6MP	7MP	4MP	5MP	6MP	7MP	4MP	5MP	6MP	7MP
Construction												
Engineer	2	8	2	2	5	8	9	9	7	16	11	11
Technical Assistant	4	16	4	4	12	19	24	24	16	35	28	28
Technician	8	32	8	8	24	38	48	48	32	70	56	56
Others	16	64	16	16	48	76	96	96	64	141	112	112
Total Gov. Staff	30	120	30	30	89	141	177	177	119	262	207	207
O & M												
Engineer	0	3	6	8	0	3	5	7	0	6	11	15
Technical Assistant	0	6	12	16	0	6	10	14	0	12	22	30
Technician	0	29	58	75	0	25	46	69	0	54	104	144
Others	0	290	580	750	0	250	460	690	0	540	1040	1440
Total Gov. Staff	0	328	656	849	0	284	521	780	0	612	1177	1629
Construction and O&M												
Engineer	2	11	8	10	5	11	14	16	7	22	22	26
Technical Assistant	4	22	16	20	12	25	34	38	16	47	50	58
Technician	8	61	66	83	24	63	94	117	32	124	160	200
Others	16	354	596	766	48	326	556	786	64	681	1152	1552
Total Gov. Staff	30	448	686	879	89	425	698	957	119	874	1384	1836

FIGURES



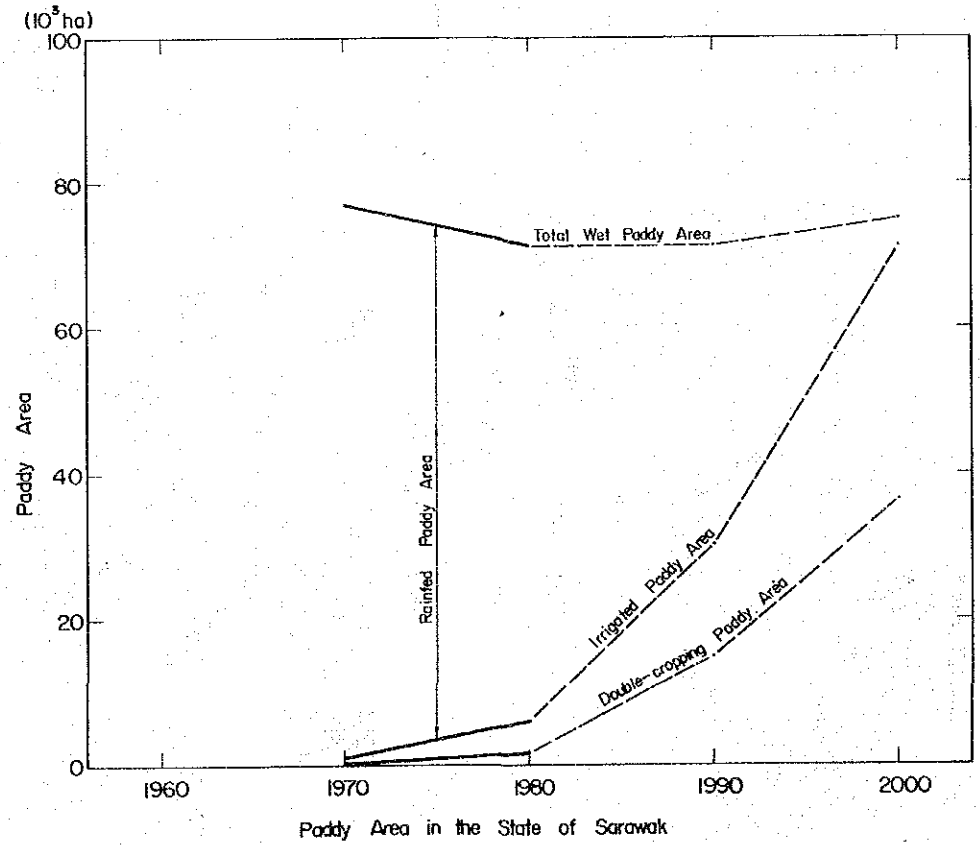


Fig. I Historical and Projected Paddy Area in the States of Sabah and Sarawak

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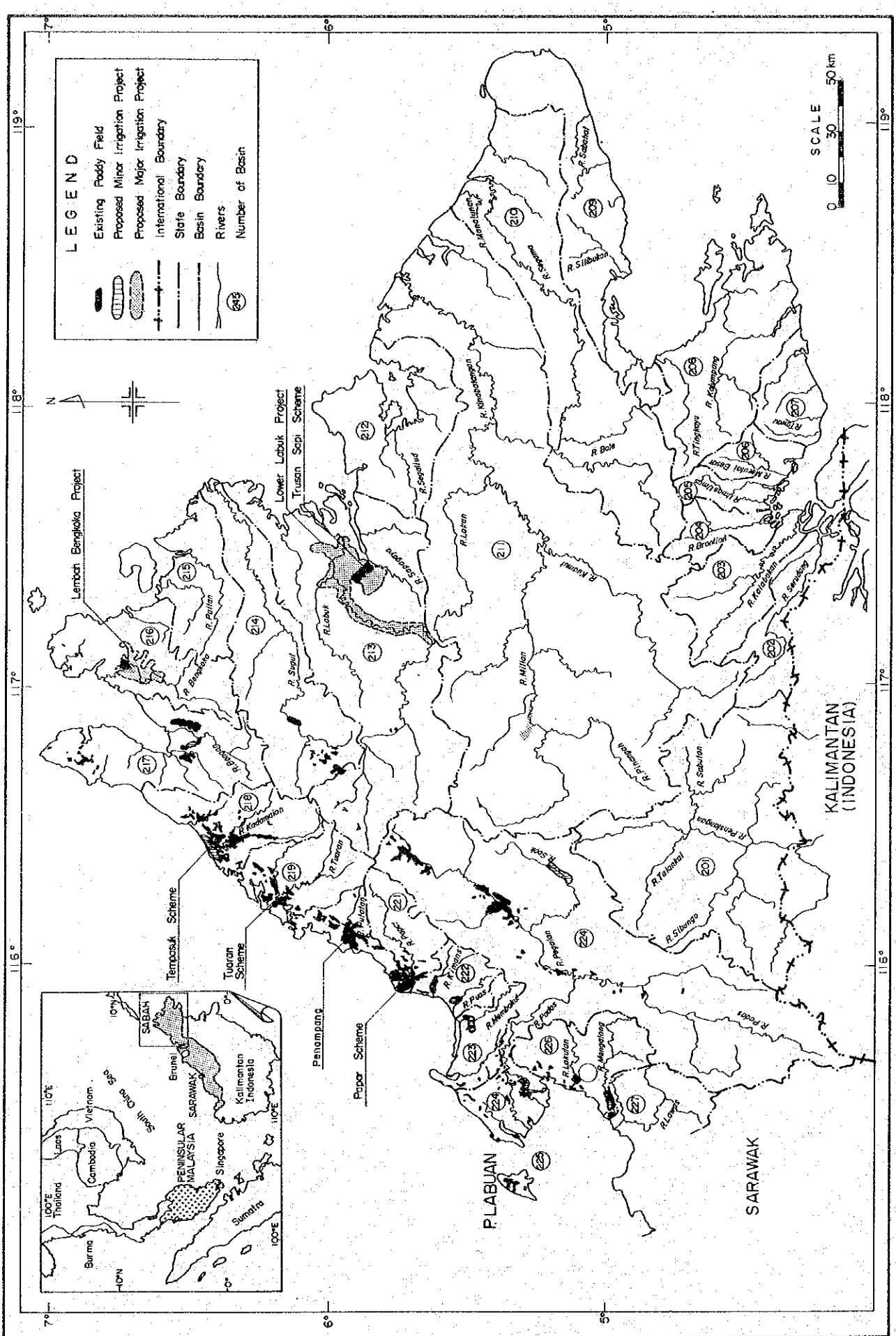

Fig. 2 Location of Paddy Field in Sabah

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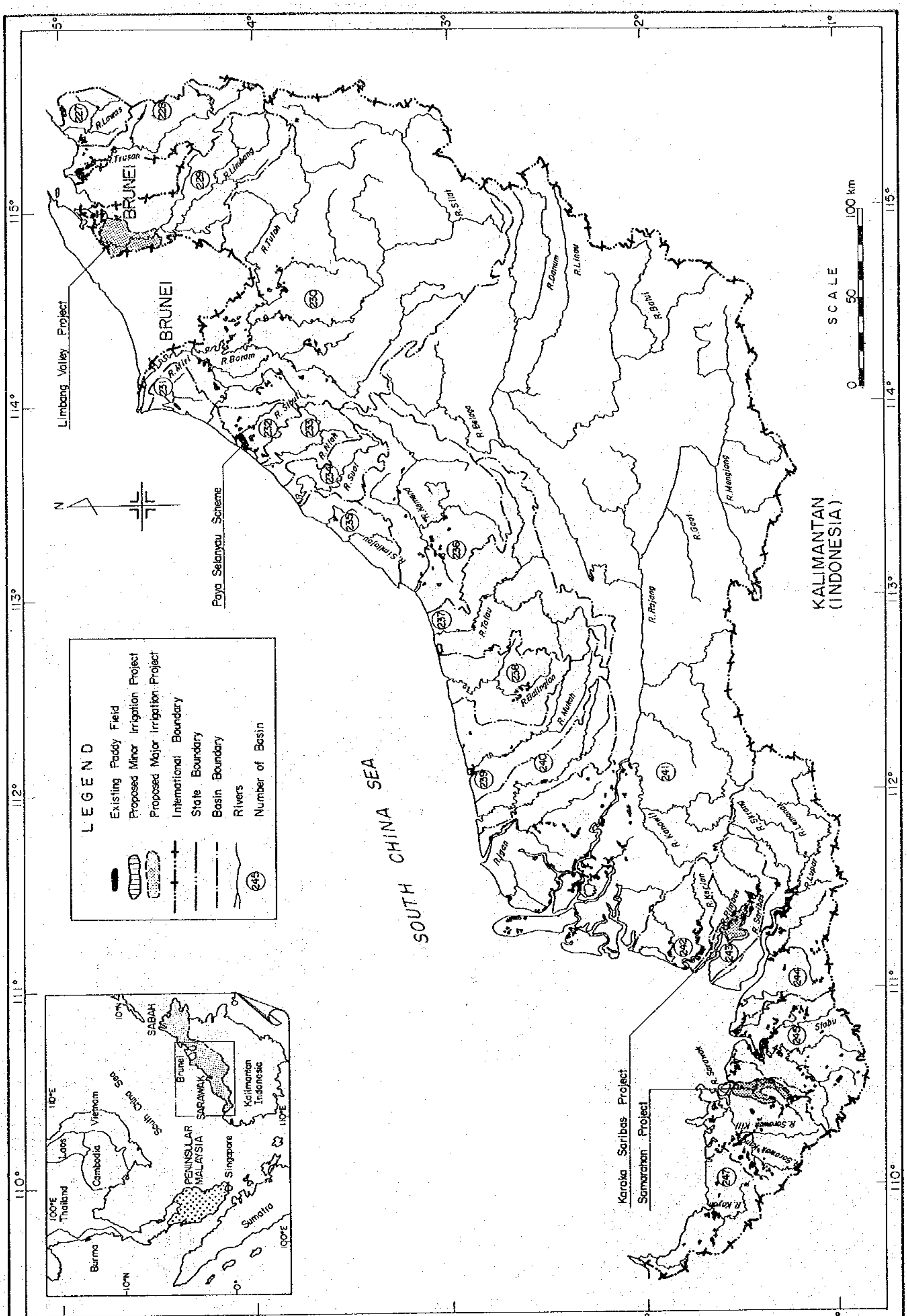

Fig 3 Location of Paddy Field in Sarawak

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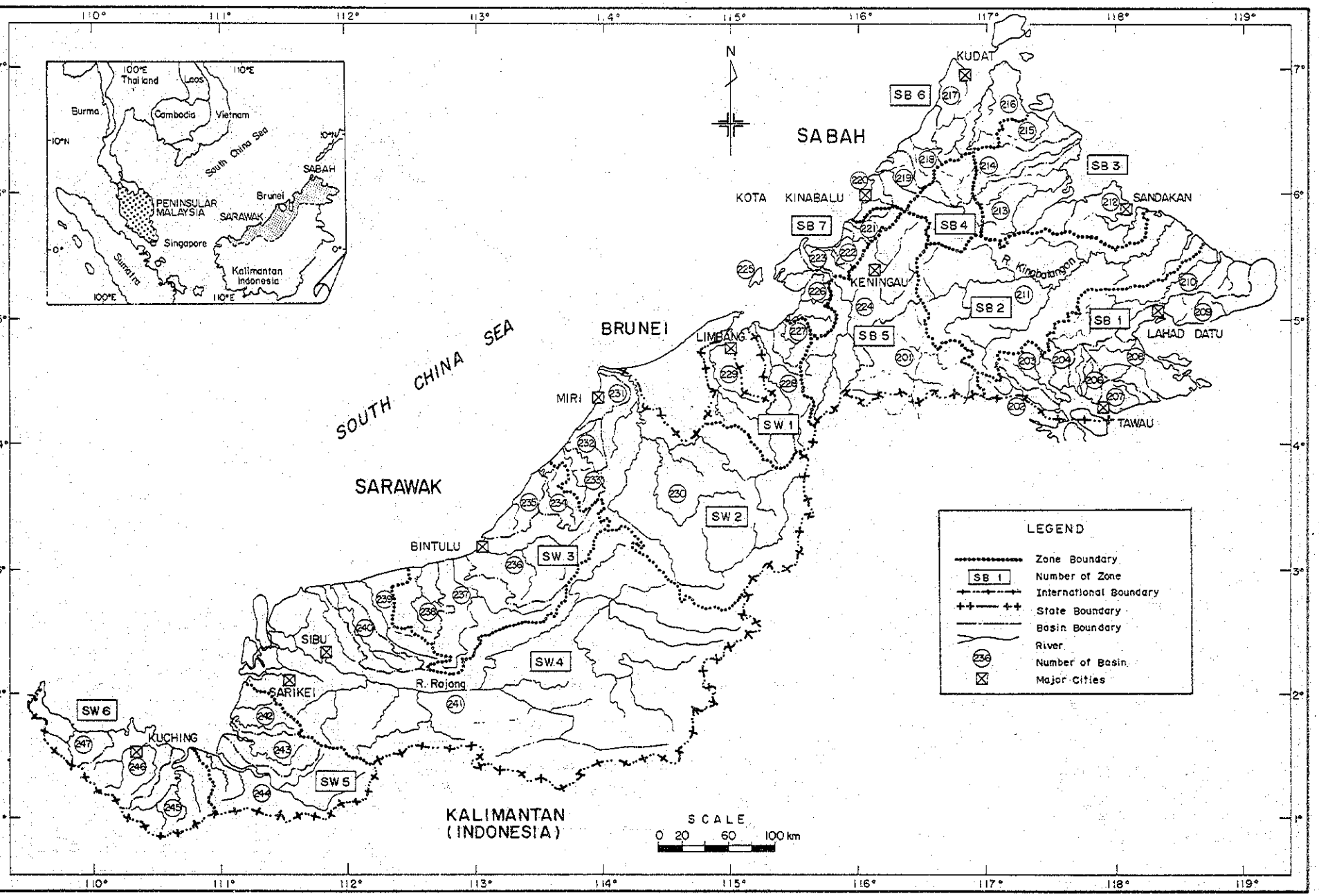

Fig. 4 Zone Division for Estimation of Irrigation Water Demand

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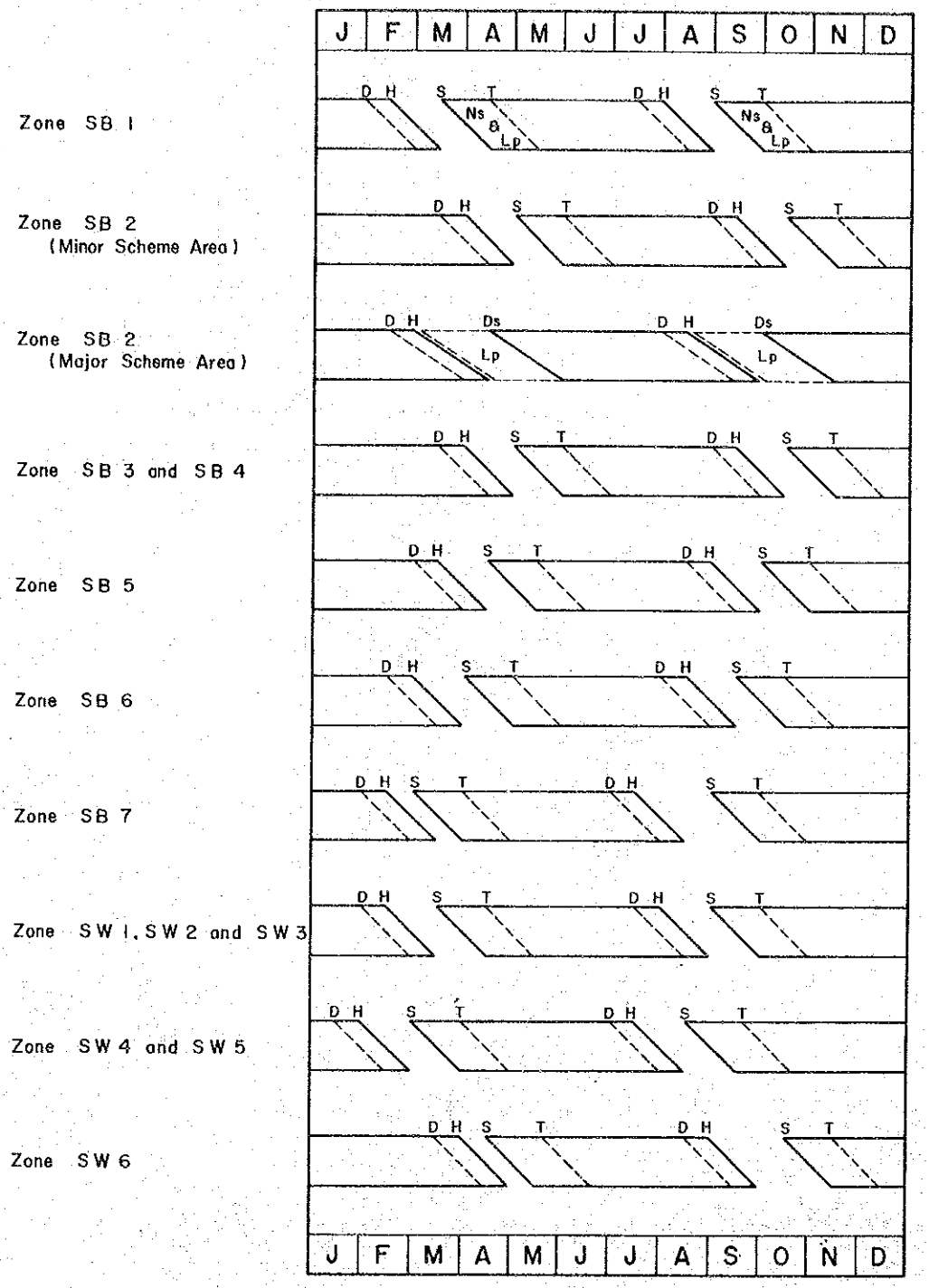

LEGEND

S	Sowing
Ds	Direct sowing
Ns	Nursery
Lp	Land preparation
D	Drainage
H	Harvest

Fig. 5 Assumed Cropping Pattern for Paddy by Climatic Zone

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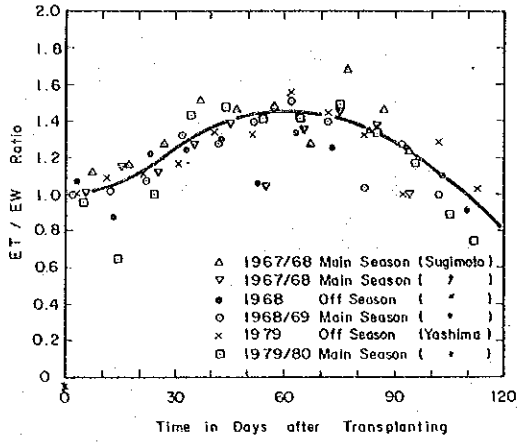

Fig. 6 Variation of ET/EW Ratio with Growing Stage

Note = ET = Evapotranspiration measured by tank.
EW = Evaporation measured by tank in paddy field.

t : 25 days after sowing

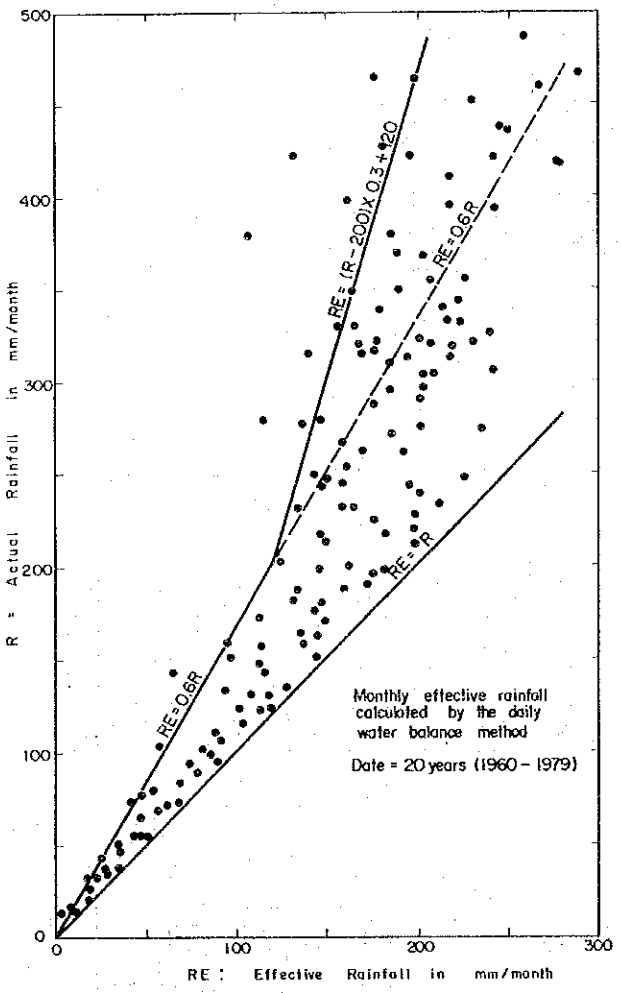

Fig. 7 Relation between Actual Rainfall and Effective Rainfall at Kota Kinabalu Station

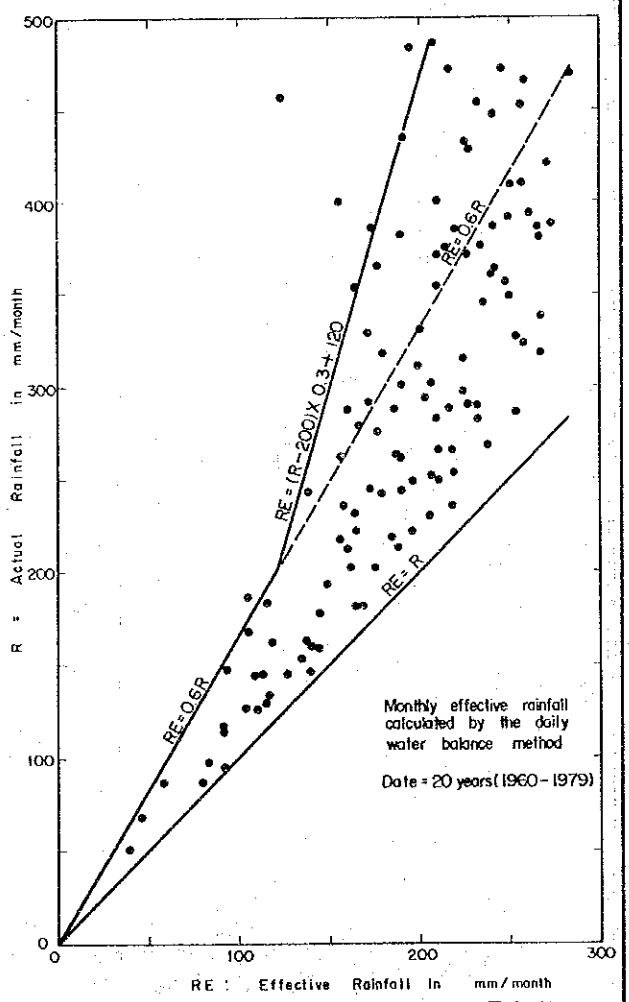

Fig. 8 Relation between Actual Rainfall and Effective Rainfall at Kuching Airport Station

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