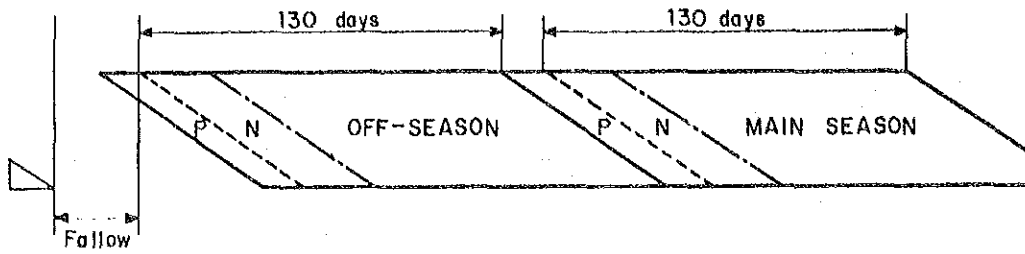


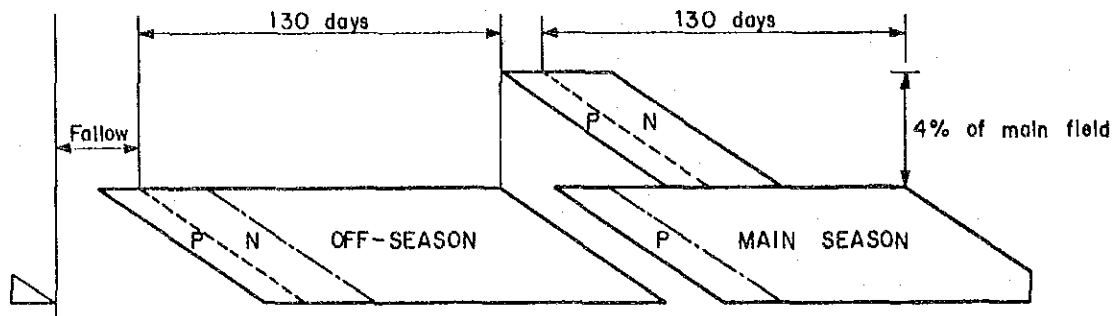
P : Presaturation N : Nursery
M : Main field

Fig. 3 Double Cropping Period
of 12 Cultural Types

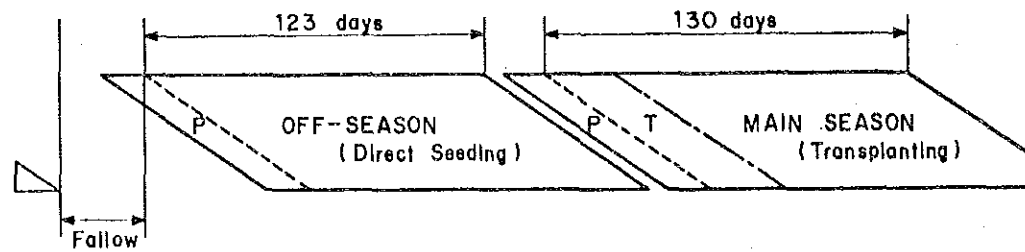
Alternative A (Transplanting + Transplanting)



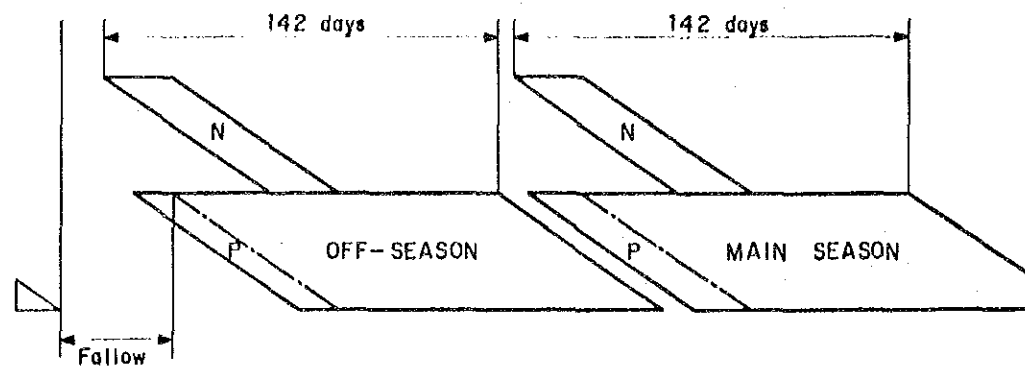
Alternative D (Transplanting + Transplanting with separate nursery)



Alternative E (Direct seeding + Transplanting)



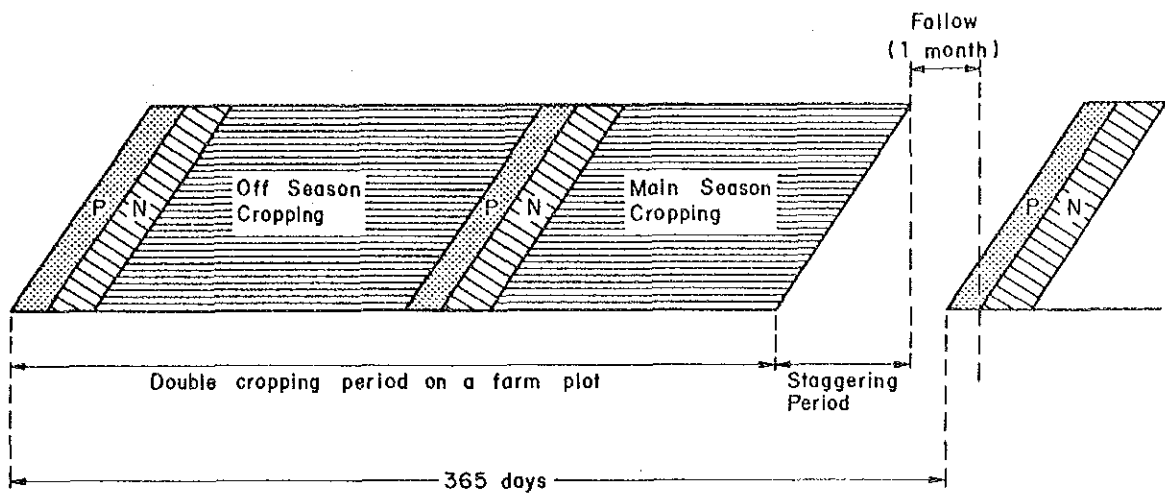
Alternative K (Mechanized transplanting with exclusive nursery)



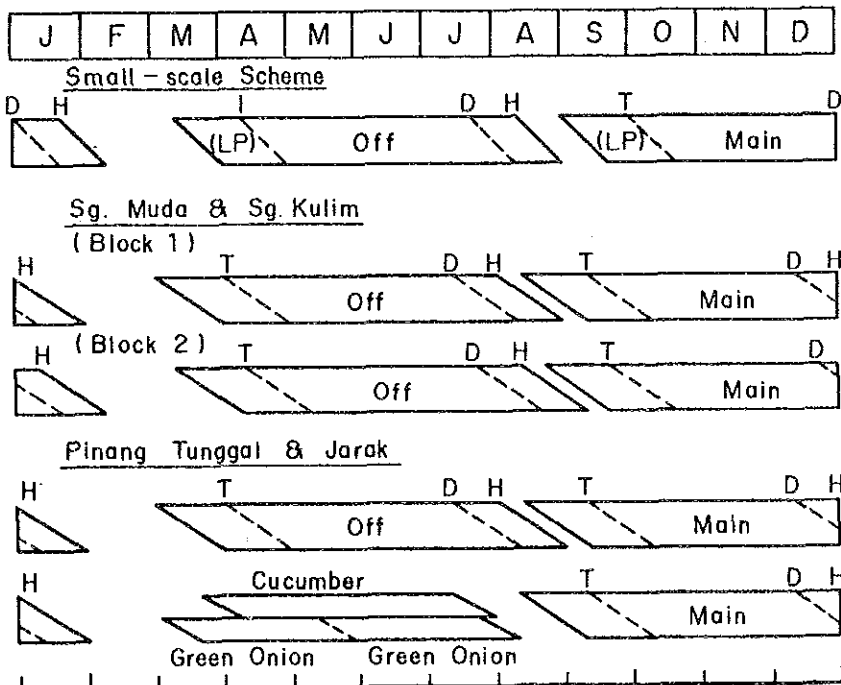
J	F	M	A	M	J	J	A	S	O	N	D
---	---	---	---	---	---	---	---	---	---	---	---

Fig. 4 Alternative Cropping Schedules by Planting Method

Proposed Cropping Schedule for Muda Area



P : Presaturation N : Nursery



(LP) : Land preparation
 T : Transplanting
 D : Drain
 H : Harvesting

Fig. 5 Proposed Cropping Pattern

ANNEX D
IRRIGATION DEVELOPMENT

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1. INTRODUCTION

Irrigation development study for the Perlis-Kedah-Pulau Pinang Water Resources Study, Part 1, (Part 1 Study) was carried out based on information and data collected in Malaysia from January to March 1983. The objective of irrigation development study in Part 1 was to make an irrigation development plan in the study area and to estimate the irrigation water demand for the years 1982, 1985, 1990 and 2000 (Ref. D 1).

In Part 2 Study, a part of methodology and assumptions for estimation of irrigation water demand in MADA area is modified as explained in Chapter 3 of this Annex taking into account some comments and opinions which were raised by MADA officials after submission of the final report of Part 1 Study and through the workshop held on 9th July, 1984, at MADA headquarters. Main points of modification for MADA area are:

- (1) Nursery system is changed from separate nursery system to traditional system;
- (2) Soil saturation depth is changed from 90 mm to 125 mm; and
- (3) Irrigation method is changed from scheduled irrigation method to controlled irrigation method.

Chapter 2 of this Annex presents the outline of calculation method and assumptions adopted in Part 1 Study. Chapter 3 deals with detailed explanation of modified points in Part 2 Study and the results of demand calculation.

The area covered by the irrigation development study in Part 2 Study corresponds to the Kedah-Muda-Perai river basin. In other words, the Perlis river basin, the Merbok river basin, the Jawi river basin and the Pinang island are excluded from the irrigation study in Part 2 Study.

2. ESTIMATION OF IRRIGATION WATER DEMAND IN PART 1 STUDY

2.1 Projection of Irrigation Area

In Part 1 Study, assessment of possibility of new irrigation development in the Region was carried out based on available maps and information collected from the federal and state DIDs. The whole area regarded as suitable for irrigation development was assumed to be developed by the year 2000.

The procedure and results of the assessment in Part 1 Study are as follows:

(1) Identification of new irrigation schemes in Part 1 Study

Possible area for irrigation development was identified in the existing rainfed paddy area by the following procedure.

- (a) demarcation of existing rainfed paddy area based on 1/63,360 scale topographic map, land use map and soil map;
- (b) calculation of maximum irrigable area per unit catchment area in the Region;
- (c) determination of minimum cropping intensity required to attain economic feasibility of schemes; and
- (d) selection and determination of new irrigation schemes.

(2) Projected area for minor irrigation development in Part 1 Study

All minor irrigation schemes identified by DID Kedah are assumed to be implemented by the year 1990. And the whole irrigation schemes newly identified in the Region are assumed to be implemented by the year 2000. The total number and area of minor irrigation schemes (excluding control drainage schemes) in the Region were projected to be increased from 69 schemes (26,020 ha in total) in 1982 to 237 schemes (39,480 ha in total) by 2000.

(3) Projection of irrigation area in MADA

It was assumed that the tertiary development covering the whole MADA area would be completed by the year 2000. Irrigation area in MADA area was assumed to be decreased by 2,800 ha from 95,800 ha in 1982 to 93,000 ha by 2000, due to land acquisition for tertiary canal lot and right of way of access road and urbanization of existing towns in MADA area.

2.2 Methodology and Assumptions for Estimation of Irrigation Water Demand in Part 1 Study

(1) Methodology of calculation

The irrigation water demand for paddy is calculated by the following equation.

$$\text{IDR} = \text{FIR}/\text{Ec} \dots\dots\dots (1)$$

where, IDR: Irrigation diversion requirement
FIR: Field irrigation requirement
Ec : Conveyance efficiency

In Part 1 Study, a computer simulation model of the plot-to-plot irrigation method was newly developed in order to estimate FIR based on the following basic water balance equation.

$$R + I_i = O_i + ET + P + h \dots\dots\dots (2)$$

where, R : Rainfall
I_i: Irrigation supply to i-plot (= Outflow from (i-1)plot)
O_i: Outflow from i-plot (= Inflow to (i+1)plot)
ET: Crop evapotranspiration
P : Percolation rate
h : Water level change in i-plot

Calculation is made from the first plot up to the terminal plot. If the number of the continuous plot is "n", outflow from n-plot is regarded as the total loss from the series of plots. In the above equation, irrigation supply to the first plot is equivalent to the field irrigation requirement in Eq. (1).

(2) Rainfall zone and used data

The Region was divided into 9 rainfall zones and a representative rainfall station was selected for each zone. Daily rainfall record for 20 years from 1961 to 1980 at selected 9 rainfall stations was used for calculation.

(3) Evapotranspiration

The evapotranspiration (ET) was calculated by the following equation.

$$\text{ET} = \text{ETO} \times \text{kc} \dots\dots\dots (3)$$

where, ET : Evapotranspiration by crop
ETO: Open water evaporation
kc : Crop coefficient

Crop coefficient curve which was prepared by observed data in MADA area was used for Part 1 Study. For ETO, the average figure of selected 5 stations was adopted to the calculation.

(4) Percolation rate

As an average figure, 1 mm/d for MADA area and 2 mm/d for minor irrigation schemes were used.

(5) Conveyance efficiency

Based on the analysis of available discharge records, the present conveyance efficiency was estimated at 76% for MADA (or 0.8% per km) and 62% for minor irrigation schemes. The conveyance efficiency in 1990 and 2000 was assumed to be improved into 80% for MADA area and 70% for minor irrigation schemes.

(6) Assumptions in plot-to-plot irrigation model

(a) Water depth in the field: The soil saturation depth of 90 mm and the standing water depth of 100 mm were assumed.

(b) Average size (A) and continuous number of paddy plot(n):
Following figures were used for estimation.

Area	A(ha)	n(nos)
MADA area: Muda I area	0.64	26
Muda II/III area	0.64	6
Sg. Muda scheme	0.6	4
Minor schemes: Kedah	0.5	3
P. Pinang	0.8	4

(c) Allowable drought level: It was assumed that 10-day dry spell on the field causes no drought damage to paddy.

(7) Irrigation method

The scheduled irrigation method was proposed to all schemes in the Region instead of the controlled irrigation method because relationship between rainfall and discharge control in reticulation system was poor according to the analysis and because the proposed scheduled irrigation made the water control very easy and could save certain manpower required for water management. Some procedures and assumptions for the estimation of irrigation water demand were applied both for the transplanting method and direct seeding method.

2.3 Results of Estimation

The results of estimation of irrigation water demand in the Region was 1.62×10^9 m³/y for MADA and 0.46×10^9 m³/y for minor schemes in 1982, 1.54×10^9 m³/y for MADA and 0.57×10^9 m³/y for minor schemes in 1990, and 1.49×10^9 m³/y for MADA and 0.71×10^9 m³/y for minor schemes in 2000.

3. ESTIMATION OF IRRIGATION WATER DEMAND IN PART 2 STUDY

3.1 General

In Part 2 Study, a part of methodology and assumptions for estimations of irrigation water demand in MADA area is modified taking into account some comments and opinions which were raised by MADA officials after submission of the final report of Part 1 Study and through the workshop held on 9th July, 1984, at MADA headquarters. Except for the modified points mentioned in this Chapter, the same methodology and assumption as described in Chapter 2 are adopted.

3.2 Projection of Irrigation Area for Part 2 Study

3.2.1 Minor irrigation schemes

All minor irrigation schemes identified by DID Kedah excluding MADA fringe area are assumed to be implemented by the year 1990. Existing and potential irrigation schemes in MADA fringe area proposed by DID Kedah are listed in Table 1. Potential area in MADA fringe area is to be irrigated by Muda main canal. The implementation of these areas will become possible only after the solution of existing water shortage problem in MADA area by means of new water source development. In Part 2 Study, implementation of potential irrigation area in MADA fringe area is not considered because certain water deficit in MADA area will remain even if the proposed Beris dam is implemented.

The detailed list of existing and proposed minor irrigation schemes in the Region for Part 2 Study is shown in Tables 2 to 6, which will be adopted for the estimation of the irrigation water demand. As shown in these tables, the total area of minor irrigation schemes in the Region is projected to be increased by 7,122 ha from 21,613 ha in 1983 to 28,735 ha by 2000. The projected minor irrigation area by basin and by state is summarized in Tables 7 and 8 respectively. Location of existing and proposed irrigation schemes are shown in Plates 1 and 2.

3.2.2 MADA area

It is assumed that the tertiary development covering the whole MADA area will be completed by the year 2000. Furthermore, irrigation area in MADA area is assumed to be decreased due to land acquisition for tertiary canal lot and right of way of access road. Following the experience in Muda II project, 4% of the present irrigable area (before tertiary development) is assumed to be decreased.

Existing MADA fringe area of 1,864 ha, which is irrigated by the existing Muda main canal is considered to be a part of the MADA area in estimating the irrigation water demand in MADA. The irrigation area in MADA area in 1983, 1990 and 2000 is, therefore, estimated as shown in Table 9.

3.3 Irrigation Rotation Schedule for MADA Area

At present, the starting date and staggering period of presaturation for off-season paddy fluctuate year by year depending on the possible cropping schedule, rainfall condition and availability of storage in the Pedu reservoir. However, after the completion of the tertiary development for the whole MADA area, the fixed irrigation schedule can be achieved owing to smooth distribution of presaturation water for off-season paddy.

In the Muda II project area, the rotational irrigation for presaturation supply within the irrigation service area (ISA) has been practiced. MADA has proposed to divide ISA into 6 irrigation service units (ISU) and to rotate presaturation supply from ISU to ISU by 7-day interval. Total rotational period is, therefore, 42 days (7-day x 6 ISU) as shown in Fig. 1. According to the actual measurement of water distribution in the Muda II area by TARC/MADA (Ref. D 2), combination of 6 ISU and 7-day interval for irrigation rotation seems to be appropriate and, therefore, this combination is also proposed to adopt to the forthcoming Muda III project.

Taking into account the limitation of flow capacity of the present Muda canal system, total staggering period should be more than 55 days. Two irrigation phases, i.e. Phase 1: starting presaturation on 1st February and Phase 2: starting presaturation on 15th February, are, therefore, recommendable for MADA area after the completion of Muda III to extend the total staggering period more than 55 days. In Part 2 Study, MADA area irrigated by the Northern canal (Pelubang north area) is assumed to be Phase 1 (starting on 1st February) and Pelubang south area to be Phase 2 (starting on 15th February) as shown in Fig. 1.

3.4 Irrigation Control Method for MADA Area

In Part 2 Study, the controlled irrigation method is assumed for estimation of irrigation water demand in MADA area instead of the scheduled irrigation method which was assumed in Part 1 Study, because more efficient water management in MADA area is expected to be achieved in future owing to the implementation of proposed telemetering system covering the whole MADA area (20 rainfall stations) and by the effort of MADA staffs.

According to the actual measurement of flooding situation during presaturation period for off-season paddy in 1984 by TARC/MADA (Ref. D2), the required period for presaturation in each ISU varies from 7 days to 3 days depending on the rainfall condition before starting irrigation. The result of computer simulation by plot-to-plot irrigation model in Part 1 Study shows that the required period of water supply from offtakes to the terminal plot in ISU during normal irrigation period varies widely from 2 days to 10 days depending on rainfall, discharge at offtakes and standing water depth in a plot before starting irrigation. In addition, the period of 2 to 3 days is necessary to supply stored water in the Pedu dam to offtakes on the secondary and tertiary canals. Taking into account such time lag of water supply in Muda system, busy control of regulating facilities is considered to be not practical.

Details of proposed irrigation control method adopted in the Part 2 Study are as follows:

- (1) Standing water depth in a terminal plot in each ISU is checked at 7-day interval;
- (2) In case that the standing water depth is lower than the minimum water depth of 40 mm, irrigation water is supplied from the next day of checking;
- (3) In case that the standing water depth is higher than the maximum water depth of 100 mm, irrigation water is not supplied from the next day of checking;
- (4) In case that the standing water depth is between minimum and maximum water depth, adjustment of control facilities is not practiced.
- (5) Unit irrigation supply (lit/s/ha) in MADA area including conveyance losses is assumed to be as follows:

Supply	Season	Unit Discharge (lit/s/ha)
Presaturation:	Main season paddy	1.2
	Off season paddy	1.7
Normal Irrigation:		
	January to April	1.2
	May to July	0.9
	August to October	0.6
	November and December	0.9

3.5 Estimation of Irrigation Water Demand

3.5.1 Minor irrigation schemes

The irrigation water demand for minor irrigation schemes in the Kedah-Muda-Perai river basin is calculated by using the results of Part 1 Study, because no modification is made on methodology and assumptions for estimation of irrigation water demand for minor schemes.

In Part 2 Study, the following schemes are excluded from the list shown in Tables 61 to 66 in Annex D of Part 1 Study report (Ref. D 1).

- (1) All minor schemes in the State of Perlis are excluded;
- (2) In Kedah, schemes with following No. are excluded, i.e., 7, 13, 16, 17, 22, 23, 28, 37, 48 to 50, 64, 67, 74 to 76, 95, 116 to 119, 121 to 125, 135 to 138; and
- (3) In Pulau Pinang, schemes with following No. are excluded, i.e., 7 to 14.

Total number of minor irrigation schemes in Kedah-Muda-Perai river basin in 2000 is, therefore, 165 in Kedah and 6 in P. Pinang.

The average annual irrigation water demand in the Kedah-Muda-Perai river basin is estimated to be increased from present $445 \times 10^6 \text{ m}^3$ to $565 \times 10^6 \text{ m}^3$ in 2000 gradually.

3.5.2 MADA area

In Part 2 Study, irrigation water demand in MADA area is re-calculated by using plot-to-plot irrigation model and modified assumptions and method described hereunder.

- (1) Assumption and method modified in Part 2 Study
 - (a) Modified cropping pattern proposed in the Agricultural study (Annex C) as shown in Fig. 1 is adopted.
 - (b) Calculation period of irrigation water demand is increased to 23 years (from 1961 to 1983) by adding recent rainfall data.
 - (c) Irrigation water demand is estimated on daily basis but summarized into 5-day mean figure in order to compare with river discharge (5-day mean).
 - (d) Water supply control at 7-day interval is assumed as mentioned in Section 3.4.
 - (e) Soil saturation depth is changed from 90 mm (Part 1) to 125 mm following the comment by MADA.

(2) Results of estimation

The irrigation water demand is estimated on daily basis using plot-to-plot irrigation model and, then, integrated into 5-day mean figure to compare with river discharge. The estimation is made by rainfall zone, i.e. north Pelubang area in the State of Perlis, north Pelubang area in the State of Kedah, and south Pelubang area. Results of estimation is shown in Tables 10 to 18 for the year 1983, Tables 19 to 27 for the year 1990, and Tables 28 to 36 for the year 2000.

Summary of average annual irrigation water demand (diversion requirement) by river system is as shown in Table 37. In Part 2 Study, the average annual irrigation water demand is estimated at 1.31×10^9 m³/y for 1983, 1.28×10^9 m³/y for 1990, and 1.24×10^9 m³/y for 2000, which are lower than the figure estimated in Part 1 Study, i.e. 1.62×10^9 m³/y for 1982, 1.54×10^9 m³/y for 1990 and 1.48×10^9 m³/y for 2000 owing to the change in irrigation control method. For minor irrigation schemes, the average annual irrigation water demand is estimated at 0.45×10^9 m³/y for 1983, 0.49×10^9 m³/y for 1990, and 0.56×10^9 m³/y for 2000, which are lower than the figure estimated in Part 1 Study, i.e. 0.50×10^9 m³/y for 1982, 0.61×10^9 m³/y for 1990 and 0.77×10^9 m³/y for 2000 due to decrease in irrigation schemes.

4. INVESTMENT COST FOR IRRIGATION DEVELOPMENT

In Part 1 Study, the investment costs for irrigation development in the Region were estimated assuming the averaged construction costs per ha which were obtained based on information from MADA and Kedah DID as shown in Part 1 Study (Table 73 of Ref. 1). Due to economic recession in Malaysia, the unit construction cost for irrigation development in the Region has not been increased in recent 2 years. After discussion on this matter with Malaysia officials and by our judgement, the unit construction cost used for Part 2 Study is assumed to be the same as that for Part 1 Study, or M\$9,000/ha for tertiary development in MADA and M\$11,500/ha for minor irrigation schemes.

The investment costs for minor irrigation schemes in the Region are listed as shown in Tables 39 to 42 by selecting the relating schemes to Part 2 Study from Part 1 Study (Tables 74 to 78 of Ref. 1). Summary of investment costs in the Region is as shown in Table 43.

Operation and maintenance costs for new minor irrigation schemes is assumed to be 1.5% of the total investment costs, which is the same figure adopted in Part 1 Study.

REFERENCES

- D 1. PERLIS-KEDAH-PULAU PINANG REGIONAL WATER RESOURCES STUDY PART 1, ANNEX D, IRRIGATION DEVELOPMENT, February 1984, JICA
- D 2. QUARTELY REPORT NO. 15, WATER BALANCE IN THE MUDA II AREA IN OFF SEASON 1984, October 1984, TARC/MADA

TABLES

Table 1 LIST OF MINOR IRRIGATION SCHEMES TO BE IRRIGATED BY MUDA MAIN CANAL

Unit: ha

Name of Scheme	Type of Scheme	Existing in 1983		Potential			
		Main	Off	1990		2000	
				Main	Off	Main	Off
Paya Rawa	CHO+P	111	111	111	111	363	363
Pdg. Pusing/Bt. Murai	CHO+P	367	100	367	100	1450	1450
Bakong/Lubok Boi	CHO	445	445	445	445	445	445
Sg. Pering	P	385	324	385	324	385	324
Padang Kerbau	CHO+P	-	-	850	510	1987	1647
Sg. Lampan/Rambai	CHO+P	-	-	222	222	1668	1668
Sg. Nawa/Gejah Mati	CHO+P	-	-	284	0	1270	986
Che Kedo/Putat	CHO+P	300	300	300	300	300	300
Sg. Gelong	CHO+P	194	194	194	194	194	194
Guar Ginu	CHO	62	62	62	62	62	62
Kg. Lanjut	CHO+P	-	-	-	-	378	378
Sg. Perigi/Sg. Setar	P	-	-	-	-	47	47
Total		1864	1536	3220	2268	8549	7864

Remarks; P : Pumping irrigation scheme

CHO : Minor irrigation schemes irrigated through control head orifice on the existing MADA main canal.

Table 2 LIST OF MINOR IRRIGATION SCHEMES IN KEDAH-MUDA PERAI RIVER BASIN (1/5)

State	Scheme No.	Scheme Name	Water Source	Rainfall Zone	Type of Scheme	1983		1990		2000	
						Main	Off	Main	Off	Main	Off
Kedah	1	Sidam Kanah*	Muda River	08	P	453	453	469	469	469	469
	2	Sidam Kiri*	Muda River	06	P	202	202	264	264	264	264
	3	Pulai*	Sg. Ketil	06	P	207	207	207	207	207	207
	4	Pekula*	Muda River	08	P	1,780	1,731	1,825	1,825	1,825	1,825
	5	Kg. Binjal*	Sg. Temin	02	G	147	0	147	0	147	0
	6	Janing*	Sg. Janing	02	G	101	57	101	57	101	57
	8	Kg. Iboi*	Sg. Ketil	06	G	155	155	155	155	155	155
	9	Kg. Tawar*	Sg. Ketil	06	G	38	38	38	38	38	38
	10	Simpang Empat*	Sg. Ketil	06	G	28	28	28	28	28	28
	11	Ulu Bakai*	Sg. Sedim	07	G	63	61	63	61	63	61
	12	Kg. Parit*	Sg. Jeneri	06	G	114	114	114	114	114	114
	14	Sg. Seluang*	Sg. Jarak	08	G	125	28	-	-	-	-
	15	Tanjung Sik*	Sg. Chepil	06	G	88	88	91	91	91	91
	17	Kota Bukit Meriam	Muda River	08	C/D	1,453	-	-	-	-	-
	18	Kg. Badang*	Sg. Sedim	07	G	71	71	71	71	71	71
	19	Jermeli*	Sg. Sedim	07	G	550	0	-	-	-	-
	20	Otak Kerbau*	Sg. Jarak	08	G	180	0	-	-	-	-
	21	Lembau Bata	Sg. Temin	02	G	324	150	324	150	324	324
	24	Kulim*	Sg. Kulim	08	G	146	91	146	91	146	91
	25	Terat Batu*	Muda River	08	P	28	28	28	28	28	28
	26	Kg. Luar*	Sg. Ketil	06	G	97	61	181	61	181	61
	27	Selarong Panjang*	Sg. Sedim	07	G	41	0	-	-	-	-
	29	Ulu Sedim (Siputeh)*	Sg. Sedim	07	G	79	49	114	49	114	49
	30	Merbau Pulas	Sg. Sedim	07	P	95	34	95	34	95	34
	31	Pinang Tunggal	Muda River	08	P	241	241	279	279	279	279
	32	Paya Rawa	Muda Canal	04	P+CHO	111	111	111	111	111	111
	33	Lembau Bata II	Sg. Temin	02	G+P	931	648	1,090	648	1,090	1,090
	34	Kg. Landak	Sg. Ketil	06	P	40	40	40	40	40	40
	35	Sg. Mempelam	Sg. Sedim	07	G	36	36	67	36	67	36
	36	Pdg. Pushing/Bt. Murai	Muda Canal	04	CHO	367	100	367	100	367	367
	38	Kota II	Muda River	08	P	-	-	1,460	1,460	1,460	1,460
	39	Bakong/Lubok Boi	Muda Canal	04	CHO	445	445	445	445	445	445
	40	Tanjung Pari	Sg. Ketil	06	G	-	-	100	100	100	100
	41	Sg. Tiak	Sg. Ketil	06	G	-	-	109	89	109	109
	42	Titi Karangan	Sg. Sedim	07	G	-	-	225	68	225	68
	43	Kg. Padang Meha/pagar Museh	Sg. Sedim	07	G	-	-	150	120	150	120

Remark: *: Minor schemes to be improved by the Kedah Valleys Agricultural Development Project.

Table 3 LIST OF MINOR IRRIGATION SCHEMES IN KEDAH-MUDA PERAI RIVER BASIN (2/5)

State	No.	Scheme Name	Water Source	Rainfall Zone	Type of Scheme	1983		1990		2000	
						Main	Off	Main	Off	Main	Off
						Unit: ha					
Kedah	44.	Tanjung Besar	Sg. Chepir	06	P	-	-	172	172	172	172
	45	Sg. Pering	Muda Canal	03	P	385	324	385	324	385	385
	46	Kurung Hitam	Sg. Perik	02	G+P	-	-	105	105	105	105
	47	Carok Kejal	Sg. Kejai	02	G	-	-	101	0	101	0
	51	Kg. Pantai Perai/Kg. Serukam	Muda River	08	P	-	-	259	259	259	259
	52	Sg. Teloi	Sg. Chepil	06	G+P	-	-	71	71	71	71
	53	Padang Cicak	Muda River	06	G+P	-	-	81	53	81	81
	54	Ch- Kedo/Putat	Muda Canal	03	CHO+P	300	300	300	300	300	300
	55	Sg. Gelong	Muda Canal	03	CHO+P	194	194	194	194	194	194
	56	Guar Ginu	Muda Canal	04	CHO	62	62	62	62	62	62
	57	Kg. Banggol Berangan	Sg. Sedim	07	P	-	-	80	80	80	80
	58	Kg. Tembak	Sg. Tembak	06	G	-	-	120	60	120	60
	59	Lubok Kiab	Muda River	06	P	-	-	58	58	58	58
	60	Kg. Sg. Limau/Carok Bemban	Sg. Ketil	06	P	-	-	77	77	77	77
	61	Kg. Matang Durian	Sg. Sedim	07	P	-	-	81	77	81	77
	62	Kg. Selarong	Sg. Sedim	07	G	-	-	93	93	93	93
	63	Kg. Guar Cempedak/Kuala Badak	Sg. Tembak	06	G	-	-	133	133	133	133
	65	Kg. Kemumbong	Muda River	06	P	-	-	55	55	55	55
	66	Pantai Cicak	Muda River	06	P	-	-	36	36	36	36
	68	Kg. Kubang Bemban	Sg. Tekai	02	P	-	-	32	18	32	18
	69	Kg. Kerasak	Sg. Tekai	02	P	-	-	20	20	20	20
	70	Kg. Nako	Sg. Jelutang	02	P	-	-	30	15	30	15
	71	Kg. Tok Tanai	Sg. Pdg. Terap	02	P	-	-	28	28	28	28
	72	Kg. Pd. Pak Tam	Sg. Pdg. Terap	02	P	-	-	36	36	36	36
	73	Kg. S. Sari	Sg. Pdg. Terap	02	P	-	-	24	24	24	24
	77	Kg. Menerong	Kedah River	02	P	-	-	56	56	56	56
	78	Kg. Cf. Setul	Sg. Temin	02	P	-	-	20	20	20	20
	79	Kg. Langsat	Sg. Temin	02	P	-	-	40	31	40	31
	80	Kg. Lubok Ipoh	Sg. Temin	02	P	-	-	20	10	20	10
	81	Kg. Pdg. Halban	Sg. Temin	02	P	-	-	20	20	20	20
	82	Kg. Belantek	Sg. Sok	06	P	-	-	35	35	35	35
	83	Kg. Surau	Sg. Sok	06	P	-	-	26	26	26	26
	84	Kg. Paya	Sg. Beris	06	P	-	-	30	30	30	30
	85	Kg. Banggul	Sg. Jeneri	06	P	-	-	27	27	27	27
	86	Kg. T. Belit	Sg. Chepil	06	P	-	-	55	55	55	55
	87	Kg. Namek	Sg. Chepil	06	P	-	-	110	110	110	110
	88	Sg. Cajad	Sg. Cajad	06	P	-	-	40	20	40	20
	89.	Kg. Kaki Bukit	Sg. Ketil	06	P	-	-	70	35	70	35

Table 4 LIST OF MINOR IRRIGATION SCHEMES IN KEDAH-MUDA PERAI RIVER BASIN (3/5)

State	No.	Scheme Name	Water Source	Rainfall Zone	Type of Scheme	1983		1990		2000	
						Main	Off	Main	Off	Main	Off
						Unit: ha					
Kedah	90	Kg. Baubak	Sg. Ketil	06		-	-	46	46	46	46
	91	Kg. Terabak	Sg. Ketil	06		-	-	34	34	34	34
	92	Sg. Tebing Tinggi	Sg. Ketil	06		-	-	28	28	28	28
	93	Kg. Lahar	Sg. Ketil	06		-	-	116	116	116	116
	94	Kg. Pdg. Geh	Sg. Ketil	06		-	-	63	63	63	63
	96	Kg. Paya Serdang	Sg. Jarak	08		-	-	63	63	63	63
	97	Kg. Sira	Sg. Kulim	08		-	-	27	27	27	27
	98	Sg. Kesai	Sg. Kesai	02		-	-	-	-	20	10
	99	Kg. Lubok Mergau	Sg. Tok-Khomis	02		-	-	-	-	20	10
	100	Kg. Nam Rok	Sg. Tekai	02		-	-	-	-	20	10
	101	Bt. Batu Bertangga	Sg. Tekai	02		-	-	-	-	21	21
	102	Kg. Pdg. Tok. Bakong	Sg. Tekai	02		-	-	-	-	30	10
	103	Belukar Luas	Sg. Tekai	02		-	-	-	-	20	10
	104	Kg. Pakra	Sg. Tekai	02		-	-	-	-	20	20
	105	Kg. Pdg. Hassan	Sg. Pdg. Terap	02		-	-	-	-	20	10
	106	Kg. Seberang	Sg. Pdg. Terap	02		-	-	-	-	50	50
	107	Sg. Kik	Sg. Pdg. Terap	02		-	-	-	-	36	18
	108	Sg. Iboi	Sg. Pdg. Terap	02		-	-	-	-	86	86
	109	Kg. Banggul Setia	Sg. Pdg. Terap	02		-	-	-	-	48	48
	110	Kg. Raja	Sg. Pdg. Terap	02		-	-	-	-	64	64
	111	Kg. Berdang	Sg. Janing	02		-	-	-	-	20	10
	112	Kg. Tengah	Sg. Perik	02		-	-	-	-	44	30
	113	Kg. Nai Teh	Sg. Alor Yai	02		-	-	-	-	40	20
	114	Kg. Bt. Hijau	Sg. Timas	04		-	-	-	-	46	23
	115	Kubor	Sg. Pendang	04		-	-	-	-	20	11
	120	Kg. Bt. Payong	Sg. Pendang	04		-	-	-	-	26	13
	126	Kg. Pinang	Kedah River	02		-	-	-	-	54	54
	127	Kg. Tanjung	Kedah River	02		-	-	-	-	96	96
	128	Padang Terap	Kedah River	02		-	-	-	-	36	36
	129	Kg. Kubang Aring	Sg. Temin	02		-	-	-	-	20	16
	130	Kg. S. Buloh	Sg. Temin	02		-	-	-	-	20	10
	131	Sg. Mati	Sg. Temin	02		-	-	-	-	30	15
	132	Kg. Pdg. Panjang	Sg. Temin	02		-	-	-	-	36	18
	133	Kg. Jeragan	Sg. Temin	02		-	-	-	-	104	104
	134	Kg. Kubang Chenok	Sg. Perlis (II)	03		-	-	-	-	32	16
	139	Kg. Banggul Batu	Sg. Sok	06		-	-	-	-	31	31
	140	Kg. Landai	Sg. Sok	06		-	-	-	-	24	24
	141	Kg. Banggul Berangan	Sg. Sok	06		-	-	-	-	36	18

Table 5 LIST OF MINOR IRRIGATION SCHEMES IN KEDAH-MUDA PERAI RIVER BASIN (4/5)

State	No.	Scheme Name	Water Source	Rainfall Zone	Type of Scheme	1983		1990		2000		Unit: ha
						Main	Off	Main	Off	Main	Off	
Kedah	142	Kg. S. Batang	Sg. Beris	06	-	-	-	-	44	22	24	
	143	Kg. Betong	Sg. Kerik	06	-	-	-	-	24	24	24	
	144	Kg. Pt. Mangus	Sg. Jeneri	06	-	-	-	-	35	26	26	
	145	Sg. Begia	Sg. Begia	06	-	-	-	-	24	20	20	
	146	Kg. Charok Giong	Sg. Chepil	06	-	-	-	-	56	56	56	
	147	Kg. Lubok Besar	Sg. Chepil	06	-	-	-	-	70	38	38	
	148	Kg. Tupai	Sg. Chepil	06	-	-	-	-	60	30	30	
	149	Kg. Melayu Paya Terendam	Sg. Chepil	06	-	-	-	-	105	61	61	
	150	Kg. Hujung Bandar Sek	Sg. Chepil	06	-	-	-	-	72	40	40	
	151	Bt. Selambau	Sg. Cajad	06	-	-	-	-	36	18	18	
	152	Kg. Charok	Sg. Tembak	06	-	-	-	-	48	24	24	
	153	Kg. Charok Kelian Salang	Sg. Tembak	06	-	-	-	-	30	15	15	
	154	Kg. Gua Tinggi	Sg. Tembak	06	-	-	-	-	20	20	20	
	155	Kg. Ketangga	Sg. Ketil	06	-	-	-	-	20	20	20	
	156	Kg. Bt. Ketil	Sg. Ketil	06	-	-	-	-	30	30	30	
	157	Kg. Lubok	Sg. Ketil	06	-	-	-	-	58	58	58	
	158	Charok Puteh	Sg. Ketil	06	-	-	-	-	52	10	10	
	159	Kg. Charok Bunting	Sg. Ketil	06	-	-	-	-	20	16	16	
	160	Kg. Dusun Gani	Sg. Ketil	06	-	-	-	-	42	21	21	
	161	Kg. Baharu	Sg. Ketil	06	-	-	-	-	56	56	56	
	162	Kg. Charok Ketil	Sg. Ketil	06	-	-	-	-	152	76	76	
	163	Kg. Assam Jawa	Sg. Ketil	06	-	-	-	-	68	34	34	
	164	Kg. Telok Teduri	Sg. Ketil	06	-	-	-	-	28	14	14	
	165	K. Charok Bemban	Sg. Ketil	06	-	-	-	-	28	14	14	
	166	Kg. Kumbang Panjang	Sg. Ketil	06	-	-	-	-	40	20	20	
	167	Kg. Tok Dollah	Sg. Detil	06	-	-	-	-	36	18	18	
	168	Kg. Rambong	Sg. Ketil	06	-	-	-	-	20	10	10	
	169	Kg. Charok Pendiati	Sg. Ketil	06	-	-	-	-	26	26	26	
	170	Kg. Kangar	Sg. Ketil	06	-	-	-	-	48	48	48	
	171	Kg. Pak Bong	Sg. Ketil	06	-	-	-	-	30	30	30	
	172	Kg. Setang	Sg. Ketil	06	-	-	-	-	38	19	19	
	173	Kg. Ketumbar	Sg. Ketil	06	-	-	-	-	70	39	39	
	174	Kg. Besah	Sg. Ketil	06	-	-	-	-	24	12	12	
	175	Kg. Paya Besah	Sg. Ketil	06	-	-	-	-	36	18	18	
	176	Kg. Terona	Sg. Sedim	07	-	-	-	-	48	48	48	
	177	Kg. Ulu Sedim	Sg. Sedim	07	-	-	-	-	46	46	46	
	178	Kg. Ulu Badang	Sg. Sedim	07	-	-	-	-	50	27	27	
	179	Kg. Pdg. Belon	Sg. Sedim	07	-	-	-	-	65	65	65	

Table 6 LIST OF MINOR IRRIGATION SCHEMES IN KEDAH-MUDA PERAI RIVER BASIN (5/5)

State	No.	Scheme Name	Water Source	Rainfall Zone	Type of Scheme	1983		1990		2000		Unit: ha	
						Main	Off	Main	Off	Main	Off		
Kedah	180	Kg. Merbok Bagan Sena	Sg. Sedim	07	-	-	-	-	-	68	34		
	181	Kg. Turus Gading	Sg. Sedim	07	-	-	-	-	-	30	30		
	182	Sg. Kejai	Sg. Sedim	07	-	-	-	-	-	56	47		
	183	Kg. S. Bakong	Sg. Sedim	07	-	-	-	-	-	40	40		
	184	Kg. Jeneri	Muda River	06	-	-	-	-	-	23	23		
	185	Kg. Pdg. Kawan	Muda River	06	-	-	-	-	-	24	24		
	189	Kg. Selarong	Sg. Jarak	08	-	-	-	-	-	48	48		
	190	Kg. Kebun Tembaku	Sg. Jarak	08	-	-	-	-	-	43	43		
	191	Ladang Ambika	Sg. Jarak	08	-	-	-	-	-	30	30		
	192	Kg. Keladi	Sg. Kulim	08	-	-	-	-	-	100	100		
	Total of Kedah						9,677	6,147	12,463	10,491	15,850	13,983	
	P. Pinang	1	Sungai Muda	Muda River	08	P	7,115	7,115	6,950	6,950	6,950	6,950	
2		Pinang Tunggal	Muda River	08	P	1,496	1,496	1,463	1,463	1,463	1,463		
3		Sungai Jarak	Sg. Kerah, Sg. Jarak	08	P+G	789	789	769	769	769	769		
4		Tasek Glugor	Sg. Jarak	08	P	221	221	262	262	262	262		
5		Jarak Tengah	Sg. Jarak	08	P	105	105	98	98	98	98		
6		Sungai Kulim	Sg. Kulim	08	G	3,663	3,663	3,369	3,369	3,369	3,369		
Total of P. Pinang						13,389	13,389	12,911	12,911	12,911	12,911		
Total						23,066	19,536	25,374	23,402	28,761	26,894		

Table 7 PROJECTED MINOR IRRIGATION AREA BY RIVER BASIN IN KEDAH-MUDA-PERAI RIVER BASIN

Unit: ha

River basin	1983		1990		2000	
	Main	Off	Main	Off	Main	Off
<u>Kedah river basin</u>						
Main stream						
Minor schemes	0	0	92	92	440	440
MADA Fringe area	1,864	1,536	1,864	1,536	1,864	1,864
Sub-total	1,864	1,536	1,956	1,628	2,304	2,304
Tributaries	1,503	855	2,102	1,146	2,833	2,253
Total	3,367	2,391	4,058	2,774	5,137	4,557
<u>Muda river basin</u>						
Main stream						
Kedah	2,704	2,655	4,814	4,786	4,861	4,861
P. Pinang	8,611	8,611	8,413	8,413	8,413	8,413
Sub-total	11,315	11,266	13,227	13,199	13,274	13,274
Tributaries	1,702	982	3,355	2,750	5,395	4,163
Total	13,017	12,248	16,582	15,949	18,669	17,437
<u>Perai river basin</u>						
Kedah	451	119	236	181	457	402
P. Pinang	4,778	4,778	4,498	4,498	4,498	4,498
Total	5,229	4,897	4,734	4,679	4,955	4,900
Grand Total	21,613	19,536	25,374	23,402	28,761	26,894

Remark; Control drainage scheme is not included in this Table.

Table 8 PROJECTED MINOR IRRIGATION AREA BY STATE
IN KEDAH-MUDA-PERAI RIVER BASIN

Unit: ha

State	1983		1990		2000	
	Main	Off	Main	Off	Main	Off
Kedah	8,224	6,147	12,463	10,491	15,850	13,983
P. Pinang	13,389	13,389	12,911	12,911	12,911	12,911
Total	21,613	19,536	25,374	23,402	28,761	26,894

Remark; Control drainage scheme is not included.

Table 9 IRRIGATION AREA IN MADA AREA

Unit: ha

	1983		1990		2000	
	Main	Off	Main	Off	Main	Off
Pelubang North						
MADA						
Perlis	18,400	16,800	18,200	16,900	17,800	17,800
Kedah	31,800	30,000	31,600	30,300	30,700	30,700
Sub-total	50,200	46,800	49,800	47,200	48,500	48,500
Fringe area	879	818	879	818	879	818
Sub-total	51,079	47,618	50,679	48,018	49,379	49,318
Pelubang South						
MADA	45,000	42,700	44,600	42,700	43,500	43,500
Fringe area	985	718	985	718	985	718
Sub-total	45,985	43,418	45,585	43,418	44,485	44,218
Total	97,064	91,036	96,264	91,436	93,864	93,536

Table 10

5-DAY IRRIGATION WATER DEMAND IN NORTH PELUBANG AREA
IN PERLIS IN 1983 (1/3)Unit: m³/s

YEAR : 1961												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1- 5	0.	21.3	18.6	23.9	10.0	17.4	0.	23.6	9.8	0.	0.7	5.5
6-10	0.	0.	4.4	18.3	10.0	17.4	11.6	9.1	1.8	0.	3.6	5.5
11-15	0.	23.2	23.2	25.2	6.0	14.9	29.1	26.2	1.8	0.	7.6	5.6
16-20	0.	13.9	13.9	8.0	0.	13.5	7.3	20.4	0.4	0.	9.1	5.6
21-25	0.	21.6	19.1	14.9	5.0	19.9	13.5	20.0	0.	0.	7.3	1.8
26-END	0.	2.5	0.	13.9	14.9	0.	5.5	4.8	0.	0.	7.3	1.8

YEAR : 1962												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1- 5	0.	15.9	23.0	25.2	0.	17.4	27.3	25.1	0.	14.5	0.	4.7
6-10	0.	0.	24.3	10.1	0.	15.9	12.0	9.1	0.	14.5	0.	5.5
11-15	0.	23.2	23.2	13.8	0.	7.5	1.8	27.3	0.	10.2	0.	3.6
16-20	0.	11.3	12.3	0.	1.0	7.5	1.8	19.3	0.	5.6	0.	3.6
21-25	0.	19.8	23.9	0.	5.0	14.3	0.	27.3	0.	0.	0.7	1.8
26-END	0.	2.5	25.1	0.	17.4	3.3	14.5	0.	2.9	0.	3.6	1.8

YEAR : 1963												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1- 5	0.	26.6	24.3	25.2	17.9	6.0	23.6	17.5	20.0	5.5	0.	0.
6-10	0.	21.3	20.4	10.4	19.9	11.5	12.0	5.5	8.0	0.	0.	0.
11-15	0.	23.2	23.2	24.4	17.9	14.9	19.3	20.0	0.	0.	0.	0.7
16-20	0.	4.6	8.6	25.2	10.5	14.9	7.5	11.3	0.	0.	0.	5.6
21-25	0.	22.6	23.6	17.4	0.	12.6	27.3	20.4	4.4	0.	0.	1.8
26-END	0.	24.1	20.9	17.4	0.	3.3	15.9	0.	5.5	0.	0.	1.8

YEAR : 1964												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1- 5	0.	26.6	24.3	25.2	1.5	0.	17.5	20.0	29.1	9.1	0.	0.
6-10	0.	15.9	12.4	25.2	2.0	13.9	7.3	12.0	9.1	9.1	0.	5.5
11-15	0.	23.2	19.6	25.2	0.	14.9	9.5	20.0	9.1	0.	0.	3.6
16-20	0.	0.	5.0	16.7	0.	14.9	5.5	1.8	9.1	0.	0.	3.6
21-25	0.	23.1	24.8	7.5	0.	18.3	23.6	14.2	9.1	0.	0.	1.8
26-END	0.	24.1	16.3	0.	0.	7.5	0.	9.1	9.1	0.	0.	1.8

YEAR : 1965												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1- 5	0.	26.6	22.1	24.4	7.5	5.0	12.0	25.5	0.	4.4	0.	4.0
6-10	0.	5.3	8.0	25.2	3.0	10.0	27.3	14.5	0.	7.3	0.	5.5
11-15	0.	23.2	23.9	21.3	0.	4.0	25.5	20.7	0.	7.3	0.	5.6
16-20	0.	23.2	24.9	10.9	0.	0.	14.5	1.8	0.	1.5	0.	5.6
21-25	0.	24.1	25.1	9.5	4.5	18.3	21.8	21.8	0.	0.	0.	1.8
26-END	0.	16.9	12.3	17.4	7.5	5.0	7.3	10.9	0.	0.	3.3	1.8

YEAR : 1966												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1- 5	0.	26.6	22.1	18.6	0.	17.4	13.8	25.5	16.7	0.	0.	0.
6-10	0.	0.	0.	14.9	0.	17.4	7.3	9.5	9.1	0.	0.	0.
11-15	0.	23.2	21.9	17.3	0.	3.0	25.5	15.6	9.1	0.	0.	0.
16-20	0.	19.3	19.3	3.5	0.	0.	9.5	3.6	10.2	0.	0.	0.
21-25	0.	24.1	22.1	0.	0.	18.3	17.1	23.6	8.7	0.	0.	0.
26-END	0.	9.7	3.7	0.	10.0	5.0	7.3	9.1	0.	0.	0.	0.

YEAR : 1967												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1- 5	0.	21.3	18.6	25.0	0.	2.0	0.	21.8	8.0	0.	0.	0.
6-10	0.	0.	4.4	17.8	0.	5.0	0.	1.8	0.	0.	0.	1.1
11-15	0.	23.2	24.6	23.9	0.	2.5	0.	12.4	0.	1.1	0.	5.6
16-20	0.	15.3	17.6	6.6	0.	1.0	0.	7.3	0.	5.5	0.	3.6
21-25	0.	24.1	25.1	5.0	0.	14.6	2.2	27.3	0.	6.5	0.	1.8
26-END	0.	2.5	6.0	0.	0.	0.	5.6	4.5	0.	3.6	0.	1.8

YEAR : 1968												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1- 5	0.	15.9	23.5	23.9	0.	9.5	25.5	16.0	0.	0.	1.1	5.5
6-10	0.	0.	20.8	10.1	0.	7.0	9.5	1.8	0.	0.	2.5	5.5
11-15	0.	23.2	24.9	23.9	0.	2.5	16.4	20.0	0.4	0.	3.6	5.6
16-20	0.	11.3	9.0	23.9	1.0	7.5	5.5	8.0	1.8	0.	5.1	3.6
21-25	0.	19.8	24.2	0.	2.5	13.3	27.3	16.0	1.8	0.	3.6	1.8
26-END	0.	2.5	21.9	0.	10.0	6.6	13.9	0.	1.1	0.	3.6	1.8

Table 11

5-DAY IRRIGATION WATER DEMAND IN NORTH PELUBANG AREA
IN PERLIS IN 1983 (2/3)Unit: m³/s

YEAR : 1969												UNIT : M ³ /SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	26.6	24.3	18.6	12.5	12.5	5.5	12.0	20.0	11.6	0.	0.
6-10	0.	15.9	16.4	0.	5.0	8.0	5.5	5.8	4.0	0.	0.	0.
11-15	0.	23.2	23.2	22.1	0.	4.0	4.7	25.5	0.	0.	0.	1.5
16-20	0.	0.	3.3	22.1	0.	0.	4.7	9.5	0.	0.	0.	3.6
21-25	0.	23.1	22.1	17.4	1.5	22.3	0.	16.7	14.5	0.	0.	1.8
26-END	0.	24.1	14.7	17.4	7.5	15.9	16.7	3.0	14.5	0.	0.	1.8

YEAR : 1970												UNIT : M ³ /SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	26.6	24.3	20.2	10.0	0.	21.8	1.8	27.3	0.	0.	3.6
6-10	0.	10.6	12.4	5.3	4.0	0.	0.	1.8	0.	0.	0.	5.5
11-15	0.	18.6	19.6	24.7	0.	6.0	0.	20.0	0.	0.	0.	3.6
16-20	0.	0.	5.0	18.9	0.	14.9	0.	9.1	0.7	0.	0.	3.6
21-25	0.	23.6	24.8	17.4	0.	26.6	0.	17.1	3.6	0.	0.	1.8
26-END	0.	24.1	15.5	17.4	0.	15.6	3.6	8.5	0.7	0.	2.2	1.8

YEAR : 1971												UNIT : M ³ /SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	26.6	19.9	13.8	17.4	0.	0.	27.3	16.4	3.3	0.	0.
6-10	0.	5.3	4.0	6.6	10.5	7.5	0.	15.3	1.8	5.1	0.	0.
11-15	0.	23.2	13.9	25.2	0.	11.0	27.3	21.5	6.2	3.6	0.	2.9
16-20	0.	23.2	5.0	15.7	0.	12.0	15.3	5.5	4.4	0.7	0.	3.6
21-25	0.	24.1	19.1	17.4	0.	0.	21.8	5.1	0.	0.	0.	1.8
26-END	0.	16.1	6.4	17.4	0.	0.	7.3	0.	0.	0.	0.	1.8

YEAR : 1972												UNIT : M ³ /SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	26.6	18.1	23.9	2.5	12.5	21.8	23.6	16.4	0.	4.4	0.
6-10	0.	0.	2.2	17.5	4.5	5.0	19.3	1.8	9.1	3.3	0.	0.
11-15	0.	23.2	24.2	25.2	10.0	2.5	25.5	8.0	9.1	7.3	0.	0.
16-20	0.	19.3	17.6	8.0	17.4	1.0	7.3	0.	1.8	14.5	0.	0.
21-25	0.	24.1	25.1	14.9	17.4	14.6	25.5	20.0	0.	12.7	0.	0.
26-END	0.	7.9	6.0	12.5	19.1	0.	18.8	9.4	0.	10.0	0.	0.5

YEAR : 1973												UNIT : M ³ /SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	15.9	23.0	23.9	0.	0.	27.3	17.8	4.0	14.5	0.	4.4
6-10	0.	0.	24.3	12.8	0.	1.0	12.0	1.8	0.	7.3	0.	5.5
11-15	0.	23.2	21.6	19.4	0.	2.5	16.0	4.0	0.	3.5	0.	0.
16-20	0.	11.3	10.6	6.6	0.	12.5	0.	0.	0.	5.5	0.	0.
21-25	0.	19.8	22.7	16.4	0.	19.3	22.9	20.0	0.	0.	0.	1.1
26-END	0.	2.5	25.1	10.5	0.	8.3	13.6	0.	2.9	0.	0.	1.8

YEAR : 1974												UNIT : M ³ /SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	26.6	22.6	25.2	17.9	6.0	20.0	14.9	27.3	3.6	5.5	5.5
6-10	0.	21.3	19.5	10.4	19.9	11.5	4.0	1.8	17.5	3.6	5.5	5.5
11-15	0.	23.2	19.9	24.4	10.0	14.9	10.2	20.0	11.3	10.2	3.6	3.6
16-20	0.	4.6	5.3	25.2	4.5	7.5	25.5	8.0	12.7	14.5	8.0	3.6
21-25	0.	13.0	22.4	17.4	0.	12.3	25.5	16.0	5.5	12.7	7.3	1.8
26-END	0.	0.	22.1	17.4	0.	4.0	12.1	0.	3.6	6.7	7.3	1.8

YEAR : 1975												UNIT : M ³ /SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	26.6	20.4	22.6	0.	0.	3.6	9.8	20.0	0.	0.	0.
6-10	0.	15.9	12.0	4.0	0.	0.	29.1	1.5	4.0	0.	0.	4.4
11-15	0.	23.2	19.9	22.8	0.	0.	17.1	20.0	0.	5.8	0.	3.6
16-20	0.	0.	0.	21.0	4.5	0.	9.1	4.0	0.	6.5	0.	3.6
21-25	0.	21.6	21.8	17.4	6.0	0.	27.3	12.0	0.	3.6	0.	0.
26-END	0.	21.6	17.2	3.5	0.	2.0	7.6	0.	0.	0.	0.	0.

YEAR : 1976												UNIT : M ³ /SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	26.6	24.3	24.4	9.0	5.0	15.6	21.8	16.0	0.	0.	0.
6-10	0.	10.6	8.4	25.2	5.5	17.4	3.6	9.8	0.	0.	0.	0.
11-15	0.	18.6	23.9	25.2	2.5	12.0	21.8	4.0	7.3	0.	0.	2.9
16-20	0.	0.	24.9	14.9	2.5	9.5	9.8	20.0	5.5	0.	0.	3.6
21-25	0.	23.6	25.1	14.9	1.0	23.2	17.8	20.4	0.	0.	0.	1.8
26-END	0.	19.3	12.3	14.9	1.7	8.6	1.8	10.0	0.	0.	0.	1.8

Table 12

5-DAY IRRIGATION WATER DEMAND IN NORTH PELUBANG AREA
IN PERLIS IN 1983 (3/3)Unit: m³/s

YEAR : 1977												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	26.6	22.1	24.7	19.9	17.4	25.1	21.8	0.	0.	0.	5.5
6-10	0.	0.	4.4	21.8	8.0	17.4	23.3	4.4	0.	0.	0.	5.5
11-15	0.	23.2	24.2	25.2	0.	14.9	25.5	12.0	0.	0.	0.	5.6
16-20	0.	19.3	21.3	11.4	0.	12.0	9.5	0.	0.	0.	1.8	5.6
21-25	0.	24.1	25.1	14.9	0.	21.6	15.6	20.0	0.	0.	7.3	1.8
26-END	0.	9.7	9.2	14.9	10.0	5.3	5.6	6.7	0.	0.	7.3	1.8

YEAR : 1978												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	21.3	18.6	23.9	17.4	11.5	5.1	21.8	8.7	5.5	0.	5.5
6-10	0.	0.	4.4	17.5	11.5	17.4	0.	3.6	0.	10.9	0.	5.5
11-15	0.	23.2	23.2	25.2	6.0	2.5	0.	10.9	0.	12.4	7.3	5.6
16-20	0.	15.3	16.6	8.0	0.	1.0	25.5	3.6	0.	3.6	9.1	5.6
21-25	0.	24.1	25.1	14.9	0.	15.9	13.5	23.6	0.	0.4	7.3	1.8
26-END	0.	2.5	6.0	15.4	6.6	6.6	4.8	5.5	0.	0.	7.3	1.8

YEAR : 1979												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	15.9	23.0	23.9	0.	12.0	27.3	0.	29.1	0.	3.3	0.
6-10	0.	0.	24.3	13.6	0.	9.0	13.1	0.	20.4	0.	5.5	2.2
11-15	0.	23.2	24.9	19.1	12.0	2.5	17.8	0.	7.3	0.	0.	3.6
16-20	0.	11.3	13.0	0.	19.9	4.5	1.8	8.0	9.1	0.	0.	5.6
21-25	0.	19.8	23.9	0.	19.9	16.3	4.4	21.8	4.7	3.6	0.	1.8
26-END	0.	2.5	25.1	0.	17.9	8.3	0.	9.1	1.5	3.6	0.	1.8

YEAR : 1980												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	26.6	24.3	25.2	0.	5.0	25.5	13.5	0.	1.8	5.8	0.
6-10	0.	21.3	16.4	6.6	0.	3.5	7.3	4.7	0.	1.8	8.7	0.
11-15	0.	23.2	23.2	23.9	0.	2.0	26.6	20.0	0.	1.8	9.1	0.
16-20	0.	4.6	5.0	20.5	4.5	0.	23.3	4.0	0.	1.8	9.1	0.
21-25	0.	22.6	24.5	12.5	7.5	7.6	25.5	0.	5.5	0.	2.9	1.8
26-END	0.	24.1	19.2	2.5	7.5	5.0	10.3	0.	3.3	0.	0.	1.8

YEAR : 1981												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	26.6	22.1	21.3	7.5	0.	23.3	25.5	0.	14.5	0.	5.5
6-10	0.	10.6	11.5	5.3	7.0	4.0	7.3	17.5	0.	14.5	0.	5.5
11-15	0.	18.6	19.6	18.3	5.0	7.5	26.9	23.6	5.5	14.5	0.	5.6
16-20	0.	0.	5.0	10.4	14.9	1.9	20.0	7.5	10.2	14.5	0.	5.6
21-25	0.	23.6	23.6	0.	13.5	26.6	27.3	26.2	14.5	10.2	1.5	1.8
26-END	0.	24.1	15.5	7.5	6.2	15.6	7.3	17.0	14.5	0.	4.0	1.8

YEAR : 1982												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	26.6	22.1	24.4	1.0	0.	18.9	0.	17.8	14.5	0.	0.
6-10	0.	5.3	4.4	25.2	6.0	0.	3.6	1.1	1.8	11.6	0.	0.
11-15	0.	23.2	21.3	23.9	14.9	0.	20.0	16.4	0.4	0.	3.6	2.9
16-20	0.	23.2	23.2	12.0	19.9	2.0	8.0	1.8	2.2	0.	9.1	5.6
21-25	0.	24.1	25.1	7.0	8.0	5.0	0.	5.8	5.5	0.	7.3	1.8
26-END	0.	16.9	12.3	5.0	0.	22.3	0.	1.8	14.5	0.	2.9	1.8

YEAR : 1983												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	26.6	22.1	24.7	19.9	6.0	17.5	27.3	0.	0.	3.6	5.5
6-10	0.	0.	4.4	21.8	8.0	10.0	25.1	8.4	0.	2.9	10.9	5.5
11-15	0.	23.2	24.2	25.2	0.	13.9	27.3	14.2	0.	7.3	9.1	3.6
16-20	0.	19.3	21.3	11.4	0.	9.0	11.5	0.	0.	7.3	9.1	5.6
21-25	0.	24.1	25.1	15.9	4.0	0.	17.5	0.	0.	5.5	7.3	1.8
26-END	0.	9.7	9.2	17.4	6.2	0.	6.1	0.	0.	5.5	7.3	1.8

Table 13

5-DAY IRRIGATION WATER DEMAND IN NORTH PELUBANG AREA
IN KEDAH IN 1983 (1/3)Unit: m³/s

YEAR : 1961												UNIT : M ³ /SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	39.0	34.1	43.9	4.6	32.0	0.	42.0	30.4	0.	0.	9.7
6-10	0.	0.	8.1	29.2	4.6	32.0	20.7	6.5	12.9	0.	0.	9.7
11-15	0.	42.6	45.1	39.0	2.7	27.4	51.7	15.5	0.	0.	12.9	6.5
16-20	0.	28.0	31.1	0.	0.	11.0	16.2	0.	0.	0.	16.2	6.5
21-25	0.	44.2	43.3	0.	18.3	26.8	46.5	35.5	0.	0.	12.9	3.2
26-END	0.	4.6	11.0	0.9	30.5	0.	33.4	19.4	0.	0.	12.9	2.7

YEAR : 1962												UNIT : M ³ /SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	29.2	42.2	43.9	32.0	24.7	48.5	3.2	7.1	25.8	0.	7.8
6-10	0.	0.	44.7	23.4	36.6	32.0	19.4	3.2	0.	25.8	0.	9.7
11-15	0.	42.6	39.6	33.6	14.6	27.4	0.	38.1	0.	22.0	3.2	6.5
16-20	0.	20.7	17.7	2.4	0.	27.4	0.	24.5	0.	16.2	3.2	6.5
21-25	0.	36.2	30.8	0.9	0.	35.3	0.	38.8	5.8	0.	0.	3.2
26-END	0.	4.6	2.7	12.8	15.2	15.2	3.2	0.	12.9	0.	0.	3.2

YEAR : 1963												UNIT : M ³ /SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	48.7	44.7	46.3	26.5	16.4	48.5	27.8	35.5	0.	0.	0.
6-10	0.	39.0	37.3	19.0	4.6	23.8	20.0	6.5	14.2	0.	0.	0.
11-15	0.	42.6	42.6	44.8	8.2	27.4	31.0	45.2	0.	0.	0.	1.3
16-20	0.	8.5	15.8	46.3	5.5	27.4	9.7	25.8	0.	0.	0.	6.5
21-25	0.	41.4	44.4	27.4	0.	48.7	45.2	39.4	0.	0.	0.	3.2
26-END	0.	44.2	40.6	30.2	13.7	42.0	21.5	3.2	0.	0.	0.	3.2

YEAR : 1964												UNIT : M ³ /SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	48.7	44.7	46.3	0.	22.8	38.8	0.	51.7	6.5	6.5	0.
6-10	0.	29.2	22.7	46.3	0.	30.2	12.9	1.3	0.	16.2	2.6	9.7
11-15	0.	42.6	35.9	46.3	0.	27.4	11.6	0.	0.	25.8	0.	6.5
16-20	0.	0.	9.1	33.6	0.	27.4	1.9	51.7	0.	25.8	0.	6.5
21-25	0.	42.3	45.4	27.4	0.	45.7	0.	54.9	0.	22.0	0.	3.2
26-END	0.	44.2	29.9	0.	4.6	25.6	0.	42.0	0.	19.4	0.	3.2

YEAR : 1965												UNIT : M ³ /SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	48.7	40.6	24.9	13.7	9.1	34.2	38.8	28.4	9.0	0.	0.
6-10	0.	9.7	11.4	0.	9.1	9.1	12.9	23.3	0.	12.9	0.	0.
11-15	0.	42.6	42.0	31.7	9.1	1.8	45.2	38.1	0.	12.9	0.	0.
16-20	0.	42.6	45.7	12.7	27.4	1.8	23.9	9.7	0.	2.6	0.	0.
21-25	0.	44.2	43.3	6.4	27.4	39.6	34.9	14.2	0.	0.	0.	0.
26-END	0.	31.0	19.9	32.0	21.3	20.1	6.5	3.2	3.2	0.	0.	0.

YEAR : 1966												UNIT : M ³ /SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	48.7	36.6	43.9	4.6	0.	25.8	38.8	22.6	0.	0.	5.8
6-10	0.	0.	8.1	37.0	1.8	0.	12.9	10.3	3.2	1.3	0.	9.7
11-15	0.	42.6	42.6	41.4	0.	0.	45.2	21.3	3.2	3.2	0.	6.5
16-20	0.	34.1	36.6	20.0	0.	9.1	16.8	0.	1.3	9.7	0.	2.6
21-25	0.	39.6	46.0	21.9	0.	45.7	27.8	35.5	0.	2.6	0.	0.
26-END	0.	13.2	16.8	13.7	0.	12.2	6.5	11.8	0.	0.	5.2	0.

YEAR : 1967												UNIT : M ³ /SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	39.0	34.1	43.9	0.	23.8	0.	48.5	14.2	0.	0.	9.7
6-10	0.	0.	8.1	31.2	0.	32.0	0.	12.9	3.2	0.	0.	9.7
11-15	0.	42.6	45.1	43.9	0.	27.4	0.	45.2	19.4	0.	0.	6.5
16-20	0.	28.0	32.3	4.9	0.	11.0	0.	36.2	19.4	0.	0.	6.5
21-25	0.	44.2	46.0	3.7	0.	26.8	27.1	35.5	19.4	0.	0.	3.2
26-END	0.	4.6	11.0	0.	15.2	0.	35.5	5.9	19.4	0.	12.9	3.2

YEAR : 1968												UNIT : M ³ /SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	29.2	43.0	43.9	3.7	7.3	45.2	1.3	48.5	0.	0.	9.7
6-10	0.	0.	38.2	18.5	0.	11.0	16.8	3.2	19.4	0.	1.3	9.7
11-15	0.	42.6	45.7	43.9	0.	13.7	3.9	35.5	0.	0.	3.2	6.5
16-20	0.	20.7	16.4	43.9	3.7	22.8	0.	23.9	0.	0.	13.6	6.5
21-25	0.	36.2	43.3	27.4	9.1	25.6	0.	44.6	0.	0.	12.9	3.2
26-END	0.	4.6	37.9	13.7	0.	11.6	0.	16.2	0.	0.	12.9	3.2

Table 14

5-DAY IRRIGATION WATER DEMAND IN NORTH PELUBANG AREA
IN KEDAH IN 1983 (2/3)Unit: m³/s

YEAR : 1969												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1- 5	0.	48.7	44.7	39.0	24.7	32.0	35.5	47.2	0.	25.8	0.	0.
6-10	0.	29.2	30.0	7.3	13.7	32.0	0.	41.3	0.	25.8	0.	0.
11-15	0.	42.6	42.6	43.4	0.	21.9	29.1	45.2	10.3	5.2	0.	2.6
16-20	0.	0.	9.1	40.0	0.	0.	41.3	9.0	25.8	0.	0.	6.5
21-25	0.	42.3	43.3	27.4	0.	6.7	45.2	21.3	25.8	0.	0.	3.2
26-END	0.	44.2	30.7	31.1	0.	0.	18.3	0.	25.8	0.	0.	3.2

YEAR : 1970												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1- 5	0.	48.7	44.7	46.3	16.4	0.	36.2	12.9	35.5	0.	0.	9.7
6-10	0.	19.5	22.7	46.3	7.3	0.	0.	3.2	0.	0.	0.	9.7
11-15	0.	34.1	35.3	46.3	0.	5.5	0.	35.5	0.	0.	0.	6.5
16-20	0.	0.	6.1	33.6	0.	13.7	3.9	0.	0.	0.	0.	6.5
21-25	0.	43.3	44.9	27.4	0.	45.7	6.5	14.2	0.	0.	0.	3.2
26-END	0.	44.2	29.9	27.4	0.	25.6	51.7	0.	0.	0.	5.2	3.2

YEAR : 1971												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1- 5	0.	48.7	36.6	32.7	35.6	0.	0.	48.5	32.3	5.8	0.	0.
6-10	0.	9.7	7.3	12.2	29.2	0.	0.	27.1	19.4	9.7	0.	0.
11-15	0.	42.6	25.6	43.9	18.3	0.	45.2	38.1	19.4	9.7	0.	5.2
16-20	0.	42.6	9.1	27.8	0.	0.	23.9	9.7	11.6	1.9	0.	6.5
21-25	0.	44.2	46.0	32.0	0.	0.	36.2	9.0	0.	0.	0.	3.2
26-END	0.	29.4	24.5	32.0	0.	0.	12.9	0.	0.	0.	0.	3.2

YEAR : 1972												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1- 5	0.	48.7	32.5	45.8	0.	32.0	47.8	38.8	17.4	0.	0.	0.
6-10	0.	0.	0.	33.6	0.	32.0	35.5	3.2	3.2	0.	0.	1.9
11-15	0.	42.6	41.4	46.3	0.	13.7	48.5	14.2	3.2	0.	0.	6.5
16-20	0.	35.3	30.5	14.6	0.	5.5	12.9	0.	3.2	0.	0.	6.5
21-25	0.	44.2	46.0	24.7	4.6	28.6	43.3	35.5	1.9	0.	0.	3.2
26-END	0.	14.5	11.0	18.3	25.9	9.1	30.1	8.6	0.	0.	0.	3.2

YEAR : 1973												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1- 5	0.	29.2	42.2	43.9	0.	15.5	48.5	34.9	8.4	9.7	0.	5.2
6-10	0.	0.	44.7	23.4	0.	11.9	23.3	6.5	0.	1.9	0.	6.5
11-15	0.	42.6	43.7	35.1	0.	4.6	3.2	39.4	0.	0.	0.	3.2
16-20	0.	20.7	23.8	9.7	0.	8.2	3.2	27.1	0.	0.	0.	5.2
21-25	0.	36.2	36.2	18.3	0.	29.9	46.5	45.2	3.9	0.	0.	0.
26-END	0.	4.6	8.2	11.0	19.0	15.2	29.1	6.5	7.1	0.	0.	1.1

YEAR : 1974												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1- 5	0.	48.7	44.7	41.4	11.0	0.	42.0	23.3	0.	0.	11.6	3.2
6-10	0.	39.0	37.3	8.3	0.	12.8	18.7	0.	0.	0.	5.2	7.1
11-15	0.	42.6	42.6	19.0	0.	27.4	31.0	0.	0.	0.	0.	6.5
16-20	0.	8.5	15.8	0.	0.	22.8	9.7	0.	0.	5.2	0.	6.5
21-25	0.	41.4	43.3	4.6	0.	23.8	42.0	0.	0.	22.6	2.6	3.2
26-END	0.	44.2	37.4	10.1	0.	9.1	18.3	0.	0.	22.6	6.5	3.2

YEAR : 1975												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1- 5	0.	48.7	37.4	46.3	16.4	0.	48.5	0.	51.7	15.5	0.	0.
6-10	0.	29.2	21.9	12.2	0.	8.2	12.9	0.	10.3	25.8	0.	0.
11-15	0.	42.6	36.6	43.9	0.	12.8	25.8	0.	0.	25.8	0.	1.3
16-20	0.	0.	6.1	38.5	0.	27.4	12.3	0.	0.	15.5	0.	3.2
21-25	0.	39.6	40.5	32.0	0.	46.3	42.0	20.7	0.	0.	0.	0.
26-END	0.	39.6	31.6	28.3	0.	32.3	7.0	45.8	7.8	0.	0.	0.

YEAR : 1976												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1- 5	0.	48.7	44.7	46.3	0.	18.3	21.3	38.8	28.4	0.	0.	0.6
6-10	0.	19.5	15.4	46.3	0.	32.0	0.	25.2	0.	0.	0.	3.2
11-15	0.	34.1	28.0	46.3	0.	27.4	0.	41.3	18.1	0.	0.	5.2
16-20	0.	0.	6.1	27.3	0.	24.7	5.8	12.9	13.6	0.	0.	6.5
21-25	0.	43.3	40.5	21.9	0.	42.6	34.9	51.0	0.	0.	0.	3.2
26-END	0.	35.4	22.6	0.	7.6	8.5	6.5	25.8	0.	0.	0.	3.2

Table 15

5-DAY IRRIGATION WATER DEMAND IN NORTH PELUBANG AREA
IN KEDAH IN 1983 (3/3)Unit: m³/s

YEAR : 1977												UNIT : M ³ /SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1- 5	0.	48.7	40.6	45.3	36.6	21.0	23.3	48.5	0.	0.	0.	9.7
6-10	0.	0.	8.1	40.0	14.6	32.0	12.9	20.0	0.	0.	0.	9.7
11-15	0.	42.6	44.5	46.3	0.	9.1	45.2	27.1	0.	0.	0.	6.5
16-20	0.	35.3	39.0	21.0	0.	2.7	16.8	0.	0.	0.	3.2	6.5
21-25	0.	44.2	46.0	29.2	0.	33.5	29.1	0.	0.	0.	12.9	3.2
26-END	0.	17.8	16.8	32.0	11.4	6.1	10.8	0.	0.	0.	12.9	3.2

YEAR : 1978												UNIT : M ³ /SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1- 5	0.	39.0	34.1	43.9	32.0	32.0	9.7	0.	19.4	3.2	0.	9.7
6-10	0.	0.	8.1	27.3	13.7	32.0	0.	3.2	0.	12.9	0.	9.7
11-15	0.	42.6	42.6	34.1	5.5	0.	0.	23.9	0.	19.4	0.	6.5
16-20	0.	28.0	29.2	2.4	0.	0.	0.	16.2	0.	19.4	0.	6.5
21-25	0.	44.2	43.3	21.0	0.	29.9	0.	51.7	0.	13.6	0.	3.2
26-END	0.	4.6	11.0	32.0	24.4	15.2	0.	19.4	0.	6.5	12.9	3.2

YEAR : 1979												UNIT : M ³ /SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1- 5	0.	29.2	40.6	46.3	0.	11.0	48.5	29.1	9.0	9.7	1.9	0.
6-10	0.	0.	40.6	25.8	0.	7.3	27.1	3.2	0.	22.6	0.	3.9
11-15	0.	42.6	45.7	37.5	0.	0.	38.1	0.	0.	23.3	0.	6.5
16-20	0.	20.7	23.8	12.2	3.7	0.	9.7	18.1	0.	19.4	0.	6.5
21-25	0.	36.2	43.8	11.9	18.3	0.	36.8	48.5	5.8	16.2	0.	3.2
26-END	0.	4.6	46.0	5.5	18.3	0.	17.8	9.7	9.7	7.5	0.	3.2

YEAR : 1980												UNIT : M ³ /SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1- 5	0.	48.7	44.7	36.6	13.7	0.	48.5	17.4	0.	0.	10.3	0.
6-10	0.	39.0	30.0	12.2	13.7	0.	12.9	2.6	0.	0.	12.9	0.
11-15	0.	42.6	42.6	43.9	13.7	0.	45.2	0.	0.	0.	9.7	0.
16-20	0.	8.5	0.	38.0	5.5	0.	38.1	0.	0.	0.	9.7	0.
21-25	0.	41.4	36.7	27.4	0.	36.6	42.0	0.	6.5	0.	2.6	3.2
26-END	0.	44.2	26.1	16.4	0.	33.5	12.4	0.	2.6	0.	0.	3.2

YEAR : 1981												UNIT : M ³ /SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1- 5	0.	48.7	40.6	32.0	0.	32.0	41.3	7.1	48.5	9.0	0.	9.7
6-10	0.	19.5	21.1	9.7	0.	28.3	12.9	6.5	16.2	12.9	0.	9.7
11-15	0.	34.1	35.9	33.6	0.	15.5	47.8	48.5	10.3	25.8	0.	6.5
16-20	0.	0.	9.1	19.0	14.6	4.6	32.9	16.2	6.5	25.8	0.	6.5
21-25	0.	43.3	45.4	0.	25.6	39.6	42.0	51.7	6.5	22.0	0.	3.2
26-END	0.	44.2	28.5	0.	36.6	25.0	0.	38.8	6.5	19.4	5.2	3.2

YEAR : 1982												UNIT : M ³ /SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1- 5	0.	48.7	40.6	39.5	0.	0.	36.2	38.8	31.0	0.	0.	0.
6-10	0.	9.7	11.4	36.6	5.5	0.	12.9	25.2	0.	0.	0.	0.
11-15	0.	42.6	42.0	34.1	13.7	0.	35.5	41.3	0.	0.	0.	5.2
16-20	0.	42.6	45.7	13.6	9.1	1.8	14.2	12.9	0.	0.	0.	6.5
21-25	0.	44.2	43.3	0.	3.7	3.0	0.	48.5	0.	0.	0.	3.2
26-END	0.	31.0	19.9	0.	0.	39.6	0.	25.8	0.	0.	0.	3.2

YEAR : 1983												UNIT : M ³ /SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1- 5	0.	48.7	40.6	41.4	36.6	0.	31.0	51.7	21.3	0.	12.9	7.8
6-10	0.	0.	8.1	40.0	25.6	0.	41.3	23.3	0.	0.	12.9	9.7
11-15	0.	42.6	44.5	46.3	14.6	0.	0.	29.1	0.	0.	12.9	6.5
16-20	0.	35.3	36.6	21.0	0.	0.	0.	0.	0.	9.7	12.9	6.5
21-25	0.	44.2	35.0	29.2	0.	0.	2.6	35.5	0.	6.5	9.7	3.2
26-END	0.	17.8	5.8	32.0	0.	0.	14.0	11.8	0.	9.7	9.7	5.2

Table 16

5-DAY IRRIGATION WATER DEMAND IN SOUTH PELUBANG AREA
IN 1983 (1/3)Unit: m³/s

YEAR : 1961												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	54.9	41.2	60.4	0.	45.1	24.5	63.6	77.3	0.	3.6	0.
6-10	0.	0.	0.	37.1	0.	45.1	20.0	13.6	67.3	0.	18.2	2.7
11-15	0.	60.1	51.5	44.6	0.	38.6	68.2	23.6	27.3	0.	13.6	9.1
16-20	0.	36.0	30.9	0.	0.	15.4	22.7	0.	27.3	0.	13.6	9.1
21-25	0.	55.8	49.4	0.	25.7	37.8	38.2	0.	16.4	0.	9.1	4.5
26-END	0.	0.	7.7	0.	42.9	0.	18.2	60.6	0.	0.	0.	4.5

YEAR : 1962												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	41.2	59.5	65.2	12.9	37.3	59.1	0.	0.	36.4	0.	13.6
6-10	0.	0.	62.9	38.5	6.4	45.1	23.6	0.	0.	21.8	0.	13.6
11-15	0.	60.1	55.8	56.3	2.6	38.6	0.	0.	0.	18.2	0.	9.1
16-20	0.	29.2	24.9	20.6	0.	18.0	0.	0.	0.	18.2	13.6	9.1
21-25	0.	51.1	45.7	38.6	0.	36.9	0.	0.	21.8	0.	18.2	4.5
26-END	0.	6.4	15.4	28.3	26.8	8.6	0.	0.	36.4	0.	18.2	4.5

YEAR : 1963												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	68.7	62.9	65.2	46.3	0.	59.1	39.1	50.0	13.6	0.	0.
6-10	0.	54.9	51.5	26.8	51.5	15.4	30.0	9.1	20.0	13.6	0.	0.
11-15	0.	60.1	55.8	63.2	41.2	32.2	48.2	59.1	0.	5.5	0.	0.
16-20	0.	12.0	14.6	65.2	23.2	38.6	18.2	29.1	0.	0.	0.	0.
21-25	0.	58.4	53.2	38.6	0.	35.2	63.6	48.2	10.9	0.	0.	3.6
26-END	0.	62.2	47.6	42.5	0.	12.9	30.3	4.5	13.6	0.	0.	4.5

YEAR : 1964												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	68.7	62.9	55.6	37.3	32.2	40.0	0.	68.2	7.3	0.	0.
6-10	0.	41.2	32.0	17.2	25.7	42.5	0.	0.	4.5	18.2	0.	13.6
11-15	0.	60.1	50.6	61.8	0.	38.6	10.0	0.	1.8	27.3	0.	9.1
16-20	0.	0.	12.9	45.3	0.	38.6	0.	72.7	0.	27.3	0.	9.1
21-25	0.	55.8	64.0	38.6	0.	68.7	0.	47.3	0.	18.2	0.	4.5
26-END	0.	55.8	42.1	45.1	6.4	27.5	0.	24.2	0.	0.	0.	4.5

YEAR : 1965												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	68.7	57.2	61.8	6.4	12.9	48.2	4.5	40.0	0.	0.	9.1
6-10	0.	13.7	20.6	61.8	14.2	0.	18.2	45.5	0.	0.	0.	9.1
11-15	0.	60.1	61.8	48.1	25.7	0.	0.	61.8	0.	0.	3.6	0.9
16-20	0.	60.1	64.4	23.3	25.7	6.4	0.	18.2	0.	14.5	9.1	0.
21-25	0.	62.2	64.8	11.6	33.5	64.4	0.	24.5	0.	13.6	13.6	0.
26-END	0.	43.6	31.9	6.4	30.0	30.0	0.	6.8	0.	11.4	13.6	0.

YEAR : 1966												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	68.7	51.5	63.9	6.4	15.4	27.3	4.5	0.	36.4	0.	5.5
6-10	0.	0.	5.7	56.3	2.6	0.	0.	4.5	0.	36.4	0.	13.6
11-15	0.	60.1	60.9	65.2	0.	0.	50.0	30.0	0.	36.4	0.	9.1
16-20	0.	49.8	54.1	29.5	0.	15.4	10.0	0.	21.8	0.	0.	3.6
21-25	0.	62.2	60.9	36.0	0.	68.7	0.	50.0	36.4	0.	0.	0.
26-END	0.	20.7	23.0	32.2	12.9	21.5	1.5	16.7	36.4	0.	0.	0.

YEAR : 1967												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	54.9	48.0	64.5	0.	16.7	0.	4.5	0.	36.4	0.	9.1
6-10	0.	0.	11.4	46.0	0.	32.2	0.	4.5	0.	36.4	0.	10.0
11-15	0.	60.1	63.5	61.8	0.	38.6	0.	20.0	0.	29.1	0.	9.1
16-20	0.	39.5	43.5	20.6	0.	38.6	0.	0.	0.	0.	0.	9.1
21-25	0.	62.2	64.8	15.4	0.	54.9	0.	50.0	0.	0.	0.	4.5
26-END	0.	6.4	15.4	0.	8.6	0.	3.0	8.3	0.	0.	13.6	4.5

YEAR : 1968												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	41.2	60.6	58.4	12.9	0.	68.2	0.	54.5	4.5	0.	13.6
6-10	0.	0.	53.8	19.9	12.9	0.	28.2	0.	27.3	4.5	0.	13.6
11-15	0.	60.1	64.4	37.1	12.9	0.	38.2	0.	8.2	1.8	0.	7.3
16-20	0.	29.2	23.2	10.3	7.7	0.	0.	0.	4.5	0.	0.	0.
21-25	0.	51.1	41.2	45.1	0.	41.2	0.	40.9	4.5	0.	7.3	0.
26-END	0.	6.4	11.6	25.7	0.	59.2	0.	4.5	4.5	0.	18.2	2.3

Table 17

5-DAY IRRIGATION WATER DEMAND IN SOUTH PELUBANG AREA
IN 1983 (2/3)Unit: m³/s

YEAR : 1969												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	68.7	62.9	65.2	37.3	0.	0.	62.7	0.	29.1	0.	0.
6-10	0.	41.2	42.3	17.2	25.7	0.	0.	59.1	0.	0.	0.	0.
11-15	0.	60.1	60.1	63.9	0.	0.	28.2	68.2	0.	0.	0.	3.6
16-20	0.	0.	8.6	57.0	0.	0.	13.6	28.2	0.	0.	0.	9.1
21-25	0.	59.7	61.7	45.1	0.	3.4	59.1	46.4	36.4	0.	0.	4.5
26-END	0.	62.2	49.6	45.1	0.	2.6	17.4	11.4	36.4	0.	0.	4.5

YEAR : 1970												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	68.7	62.9	65.2	6.4	0.	43.6	28.2	59.1	0.	0.	0.
6-10	0.	27.5	32.0	65.2	6.4	0.	0.	18.2	0.	0.	0.	0.
11-15	0.	48.1	50.6	65.2	6.4	7.7	0.	63.6	0.	0.	0.	5.5
16-20	0.	0.	12.9	47.4	6.4	19.3	25.5	13.6	0.	0.	0.	9.1
21-25	0.	40.9	64.0	38.6	3.9	60.1	63.6	30.9	0.	0.	0.	4.5
26-END	0.	62.2	42.1	6.4	0.	26.6	22.7	9.1	0.	0.	0.	4.5

YEAR : 1971												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	68.7	51.5	65.2	24.5	0.	0.	68.2	45.5	5.5	0.	13.6
6-10	0.	13.7	10.3	65.2	11.6	0.	0.	38.2	27.3	9.1	0.	13.6
11-15	0.	60.1	36.0	65.2	0.	23.2	72.7	50.9	9.1	9.1	0.	9.1
16-20	0.	60.1	12.9	38.5	0.	30.9	37.3	0.	2.7	5.5	0.	9.1
21-25	0.	62.2	64.8	39.9	0.	0.	49.1	10.0	0.	4.5	0.	4.5
26-END	0.	41.5	34.5	45.1	0.	0.	9.1	0.	0.	3.8	10.9	4.5

YEAR : 1972												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	68.7	41.2	64.5	0.	0.	60.0	59.1	46.4	0.	0.	0.
6-10	0.	0.	0.	47.4	0.	0.	52.7	9.1	67.3	5.5	0.	2.7
11-15	0.	60.1	61.8	65.2	0.	0.	68.2	21.8	27.3	9.1	0.	9.1
16-20	0.	49.8	45.5	20.6	0.	0.	18.2	0.	27.3	9.1	0.	9.1
21-25	0.	62.2	64.8	42.5	0.	2.6	63.6	0.	16.4	0.9	0.	4.5
26-END	0.	15.6	15.4	36.0	0.	12.9	47.0	0.	0.	0.	0.	4.5

YEAR : 1973												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	41.2	59.5	61.8	0.	7.7	0.	40.0	10.0	0.	0.	4.5
6-10	0.	0.	62.9	33.0	0.	0.	0.	0.	0.	0.	0.	2.7
11-15	0.	60.1	64.4	49.4	0.	0.	14.5	0.	0.	0.	13.6	0.
16-20	0.	29.2	33.5	13.7	0.	5.1	72.7	0.	0.	0.	13.6	0.
21-25	0.	51.1	51.8	15.4	0.	39.5	69.1	0.	0.	0.	9.1	0.
26-END	0.	6.4	15.4	7.7	21.5	21.5	34.1	0.	0.	0.	9.1	1.5

YEAR : 1974												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	68.7	56.1	65.2	36.0	15.4	50.0	34.5	50.0	0.	4.5	13.6
6-10	0.	34.9	42.3	26.8	0.	29.6	24.5	4.5	20.0	0.	4.5	13.6
11-15	0.	60.1	55.8	65.2	0.	38.6	43.6	50.0	0.	0.	0.	9.1
16-20	0.	12.0	21.5	65.2	0.	38.6	13.6	20.0	0.	0.	0.	9.1
21-25	0.	58.4	62.5	45.1	0.	27.5	59.1	40.0	0.	0.	5.5	4.5
26-END	0.	62.2	57.2	45.1	0.	0.	25.8	0.	0.	7.6	13.6	4.5

YEAR : 1975												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	68.7	53.8	65.2	12.9	0.	68.2	0.	72.7	22.7	0.	9.1
6-10	0.	41.2	30.9	17.2	12.9	0.	18.2	0.	32.7	22.7	5.5	9.1
11-15	0.	60.1	51.5	35.0	12.9	6.4	63.6	0.	22.7	26.4	9.1	4.5
16-20	0.	0.	12.9	17.2	12.9	32.2	51.8	0.	22.7	16.4	22.7	4.5
21-25	0.	59.7	63.3	32.2	12.9	67.8	54.5	29.1	22.7	0.	18.2	0.
26-END	0.	62.2	49.6	16.7	12.9	49.8	9.1	64.4	22.7	0.	16.4	0.

YEAR : 1976												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	68.7	62.9	65.2	0.	25.7	34.5	59.1	40.0	0.	0.	0.
6-10	0.	27.5	21.7	65.2	0.	45.1	4.5	37.3	0.	0.	0.	0.
11-15	0.	46.1	36.0	61.8	0.	34.8	68.2	57.3	0.	0.	0.	7.3
16-20	0.	0.	0.	35.0	0.	30.9	38.2	13.6	0.	0.	0.	9.1
21-25	0.	60.9	49.4	25.7	0.	60.1	53.6	52.7	0.	0.	0.	4.5
26-END	0.	49.9	29.3	0.	10.7	15.4	13.6	25.0	0.	0.	0.	4.5

Table 18 5-DAY IRRIGATION WATER DEMAND IN SOUTH PELUBANG AREA
IN 1983 (3/3)

Unit: m³/s

YEAR : 1977												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	68.7	57.2	63.9	45.1	0.	39.1	54.5	30.0	36.4	0.	13.6
6-10	0.	0.	11.4	56.3	48.9	0.	22.7	14.5	0.	21.8	0.	13.6
11-15	0.	60.1	62.7	65.2	41.2	0.	68.2	30.0	9.1	0.	0.	9.1
16-20	0.	49.8	54.9	29.5	0.	0.	24.5	0.	25.5	0.	4.5	9.1
21-25	0.	62.2	64.8	41.2	0.	0.	39.1	50.0	36.4	0.	18.2	4.5
26-END	0.	25.0	23.7	45.1	0.	60.1	9.1	16.7	36.4	0.	18.2	4.5

YEAR : 1978												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	54.9	48.0	61.8	19.3	34.8	14.5	0.	20.0	0.	0.	8.2
6-10	0.	0.	11.4	38.5	29.6	19.3	0.	0.	0.	0.	0.	13.6
11-15	0.	60.1	63.5	48.1	19.3	0.	0.	0.	0.	0.	0.	9.1
16-20	0.	39.5	45.5	3.4	0.	0.	0.	0.	0.	0.	0.	9.1
21-25	0.	62.2	64.8	2.6	6.4	13.7	0.	0.	0.	0.	0.	4.5
26-END	0.	6.4	15.4	3.9	36.5	68.7	0.	0.	0.	0.	0.	4.5

YEAR : 1979												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	41.2	59.5	65.2	0.	0.	68.2	40.0	14.5	13.6	5.5	0.
6-10	0.	0.	62.9	36.4	0.	0.	38.2	0.	0.	31.8	0.	5.5
11-15	0.	60.1	64.4	50.1	30.9	0.	53.6	0.	0.	36.4	0.	9.1
16-20	0.	29.2	33.5	3.4	51.5	20.6	13.6	20.0	0.	36.4	0.	9.1
21-25	0.	51.1	61.7	1.3	51.5	35.2	55.5	54.5	8.2	31.8	0.	4.5
26-END	0.	6.4	64.8	0.	8.6	68.7	29.5	22.7	13.6	16.7	0.	4.5

YEAR : 1980												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	68.7	62.9	65.2	12.9	6.4	68.2	29.1	0.	0.	0.	0.
6-10	0.	54.9	42.3	17.2	12.9	2.6	22.7	7.3	0.	0.	10.9	0.
11-15	0.	60.1	60.1	61.8	0.	0.	68.2	0.	0.	0.	22.7	0.
16-20	0.	12.0	0.	52.9	0.	0.	58.2	0.	0.	0.	22.7	0.
21-25	0.	58.4	49.4	32.2	1.3	0.	63.6	0.	0.	0.	7.3	4.5
26-END	0.	62.2	39.3	16.7	6.4	8.6	22.0	0.	0.	0.	0.	4.5

YEAR : 1981												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	68.7	57.2	52.2	0.	19.3	54.5	0.	72.7	5.5	0.	9.1
6-10	0.	27.5	29.7	13.7	0.	24.5	18.2	29.1	18.2	13.6	0.	13.6
11-15	0.	48.1	50.6	61.1	0.	20.6	12.7	72.7	10.0	18.2	0.	9.1
16-20	0.	0.	12.9	46.7	20.6	12.9	0.	22.7	4.5	18.2	0.	9.1
21-25	0.	60.9	64.0	45.1	25.7	55.8	50.0	72.7	4.5	10.9	0.	4.5
26-END	0.	62.2	40.1	0.	25.7	32.6	0.	56.1	0.9	0.	5.5	4.5

YEAR : 1982												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	68.7	57.2	63.2	2.6	0.	48.2	72.7	40.0	19.1	0.	0.
6-10	0.	13.7	20.6	65.2	2.6	0.	18.2	42.7	0.	18.2	0.	0.
11-15	0.	60.1	61.8	61.8	6.4	11.6	63.6	58.2	0.	0.	0.	7.3
16-20	0.	60.1	64.4	35.0	25.7	21.9	25.5	18.2	0.	0.	0.	9.1
21-25	0.	62.2	64.8	28.3	10.3	64.4	0.	53.6	0.	0.	0.	4.5
26-END	0.	43.6	31.9	12.9	0.	30.0	0.	25.0	13.6	0.	0.	4.5

YEAR : 1983												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	68.7	57.2	58.4	45.1	11.6	43.6	54.5	0.	0.	13.6	13.6
6-10	0.	0.	11.4	56.3	25.7	6.4	58.2	14.5	0.	0.	27.3	13.6
11-15	0.	60.1	62.7	65.2	12.9	1.3	0.	30.0	0.	0.	22.7	9.1
16-20	0.	49.8	51.5	29.5	12.9	0.	0.	0.	0.	0.	22.7	9.1
21-25	0.	62.2	49.4	41.2	7.7	0.	0.	0.	0.	0.	18.2	4.5
26-END	0.	25.0	8.2	45.1	9.7	0.	1.5	0.	0.	6.1	18.2	4.5

Table 19

5-DAY IRRIGATION WATER DEMAND IN NORTH PELUBANG AREA
IN PERLIS IN 1990 (1/3)Unit: m³/s

YEAR : 1961													UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1-5	0.	25.6	25.6	19.8	16.5	16.5	15.2	3.6	7.1	0.	1.4	3.6	
6-10	0.	25.6	25.6	24.8	16.5	16.5	14.9	19.0	7.1	0.	7.1	3.6	
11-15	0.	22.7	25.7	24.8	9.9	13.2	17.2	7.8	7.1	0.	5.3	0.	
16-20	0.	13.2	16.9	0.	0.	13.2	5.3	6.8	1.4	0.	5.3	0.	
21-25	0.	22.0	19.8	0.	16.5	16.7	13.6	5.3	0.	0.	7.1	0.	
26-END	0.	25.6	0.	5.0	16.5	0.	10.3	6.8	0.	0.	7.1	0.	

YEAR : 1962													UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1-5	0.	25.6	25.6	24.8	0.	16.5	19.0	16.6	0.	8.9	0.	3.6	
6-10	0.	25.6	25.6	9.9	6.6	16.5	7.6	7.1	0.	8.9	0.	3.6	
11-15	0.	22.0	24.7	0.	2.6	13.2	0.	7.1	0.	8.9	0.	0.	
16-20	0.	11.0	12.1	0.	1.3	13.2	0.	7.1	0.	8.9	0.	0.	
21-25	0.	24.2	20.8	7.9	6.6	16.5	0.	7.1	0.	0.	1.4	0.	
26-END	0.	25.6	24.8	5.9	14.9	9.9	8.6	0.	1.8	0.	7.1	0.	

YEAR : 1963													UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1-5	0.	25.6	25.6	19.8	13.9	15.8	7.1	10.7	0.	0.	0.	0.	
6-10	0.	20.5	21.2	19.8	16.5	16.5	18.0	3.6	0.	0.	0.	0.	
11-15	0.	22.0	24.7	15.8	16.5	13.2	19.0	7.1	0.	0.	0.	0.	
16-20	0.	24.9	25.5	9.9	9.9	13.2	19.0	8.2	0.	0.	0.	0.	
21-25	0.	25.6	20.8	9.9	0.	8.4	15.4	7.1	0.	0.	0.	0.	
26-END	0.	25.6	15.7	15.8	13.2	1.3	7.5	0.	0.	0.	0.	0.	

YEAR : 1964													UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1-5	0.	25.6	24.4	23.8	9.9	13.2	16.6	0.	8.9	2.1	0.	0.	
6-10	0.	15.4	11.9	19.8	15.2	15.8	7.1	0.	8.9	5.3	0.	3.6	
11-15	0.	22.0	24.9	7.9	9.9	13.2	5.9	0.	3.6	7.1	0.	0.	
16-20	0.	25.6	25.7	3.0	9.9	13.2	3.6	3.3	0.	8.2	0.	0.	
21-25	0.	25.6	20.8	0.	9.9	20.9	15.4	7.5	0.	7.1	0.	0.	
26-END	0.	25.6	22.3	0.	10.5	12.3	0.	8.9	0.	0.	0.	0.	

YEAR : 1965													UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1-5	0.	25.6	24.4	22.8	13.9	16.5	19.7	17.2	0.	5.3	0.	2.8	
6-10	0.	5.1	25.4	19.8	7.9	16.5	20.7	11.1	0.	8.9	0.	0.	
11-15	0.	23.5	25.7	0.	0.	5.3	17.2	6.4	0.	8.9	2.1	0.	
16-20	0.	25.6	25.7	0.	13.2	1.3	11.1	3.6	0.	1.8	5.3	0.	
21-25	0.	23.8	19.8	5.0	15.2	12.6	13.4	2.1	0.	0.	7.1	0.	
26-END	0.	17.1	23.1	24.8	16.5	11.4	5.3	0.9	0.	0.	5.0	0.	

YEAR : 1966													UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1-5	0.	25.6	23.2	14.9	3.3	16.5	12.8	17.2	7.1	0.	0.	0.	
6-10	0.	0.	25.6	19.8	1.3	16.5	15.9	7.7	7.1	2.8	0.	0.	
11-15	0.	24.2	25.7	0.	0.	10.6	11.8	5.3	8.9	7.1	0.	0.	
16-20	0.	21.2	21.1	0.	0.	7.3	5.2	5.3	3.6	7.1	0.	0.	
21-25	0.	23.8	14.9	0.	0.	14.3	14.0	5.3	0.	2.8	0.	0.	
26-END	0.	9.2	2.5	0.	8.3	3.3	15.2	6.5	0.	0.	0.	0.	

YEAR : 1967													UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1-5	0.	20.5	25.6	24.8	0.	6.6	0.	17.2	4.3	0.	0.	0.	
6-10	0.	0.	25.6	14.9	0.	16.5	2.8	5.3	5.7	0.	0.	0.7	
11-15	0.	24.9	24.9	0.	0.	13.2	3.6	7.5	0.	1.8	0.	0.	
16-20	0.	16.8	16.3	0.	0.	5.3	0.	8.9	0.	8.9	0.	0.	
21-25	0.	23.8	19.8	3.0	0.	8.8	7.9	8.9	0.	8.9	0.	0.	
26-END	0.	25.6	24.8	4.0	0.	0.	5.3	1.5	0.	4.4	0.	0.	

YEAR : 1968													UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1-5	0.	25.6	25.6	9.9	0.	16.5	3.6	11.4	0.	0.	6.4	3.6	
6-10	0.	25.6	21.2	17.8	0.	16.5	15.9	5.3	0.	0.	7.1	1.4	
11-15	0.	22.0	24.7	11.9	0.	13.2	17.9	5.3	0.	4.3	5.3	0.	
16-20	0.	11.0	7.9	0.	6.6	6.6	19.0	7.5	0.	7.1	5.3	0.	
21-25	0.	24.2	19.8	0.	16.5	13.6	15.4	7.8	0.	7.1	7.1	0.	
26-END	0.	25.6	18.2	0.	16.5	9.5	7.5	3.6	0.	7.1	7.1	0.	

Table 20

5-DAY IRRIGATION WATER DEMAND IN NORTH PELUBANG AREA
IN PERLIS IN 1990 (2/3)Unit: m³/s

YEAR : 1969												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1- 5	0.	25.6	25.4	0.	0.	16.5	11.8	17.2	0.	8.9	5.3	0.
6-10	0.	15.4	16.8	0.	0.	16.5	0.	15.2	0.	8.9	5.3	2.8
11-15	0.	22.0	24.7	14.9	0.	13.2	2.1	7.1	0.	1.8	3.6	0.
16-20	0.	25.6	2.7	24.8	5.9	13.2	2.8	7.1	0.	0.	0.	0.
21-25	0.	24.5	14.9	24.8	11.2	13.0	11.8	6.4	1.8	0.	0.	0.
26-END	0.	23.8	9.9	5.0	16.5	6.6	6.6	4.4	6.0	5.3	0.	0.

YEAR : 1970												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1- 5	0.	25.6	24.4	4.0	13.2	0.	15.2	4.1	7.1	0.	0.	3.6
6-10	0.	10.3	11.9	0.	10.6	13.2	0.	3.9	0.	0.	0.	3.6
11-15	0.	22.7	24.7	19.8	0.	13.2	0.	7.1	0.	0.	0.	0.
16-20	0.	25.6	24.7	24.8	0.	13.2	0.	8.9	0.	0.	0.	0.
21-25	0.	25.6	19.8	24.8	0.	20.9	0.	8.9	0.	0.	0.	0.
26-END	0.	25.6	12.4	19.8	0.	14.3	11.8	8.3	0.	0.	2.8	0.

YEAR : 1971												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1- 5	0.	25.6	22.0	9.9	1.3	0.	1.4	17.2	2.8	5.3	0.	0.
6-10	0.	5.1	4.4	24.8	0.	16.5	3.6	10.1	7.1	8.5	0.	0.
11-15	0.	23.5	23.5	24.8	0.	13.2	19.0	5.3	7.1	7.1	0.	0.
16-20	0.	25.6	25.7	24.8	16.5	10.6	9.7	5.3	4.3	1.4	0.	0.
21-25	0.	23.8	0.	21.8	16.5	0.	15.4	1.1	0.	0.	7.1	0.
26-END	0.	15.9	0.	9.9	11.0	0.	15.4	0.9	0.	0.	2.8	0.

YEAR : 1972												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1- 5	0.	25.6	23.7	7.9	0.	12.5	19.0	15.4	7.1	0.	5.7	0.
6-10	0.	25.6	25.6	10.9	13.2	6.6	16.9	1.8	7.1	5.3	0.	0.
11-15	0.	23.5	25.7	19.8	16.5	3.3	17.2	1.8	7.1	8.9	0.	0.
16-20	0.	18.3	16.9	0.	16.5	3.3	5.3	3.2	1.4	8.9	0.	0.
21-25	0.	23.8	19.8	8.9	16.5	10.8	13.6	8.9	0.	8.9	0.	0.
26-END	0.	7.3	19.8	11.9	16.5	9.9	10.3	7.4	0.	8.9	0.	0.

YEAR : 1973												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1- 5	0.	25.6	25.6	0.	0.	0.	11.8	14.8	7.1	8.9	5.3	2.8
6-10	0.	25.6	25.6	0.	0.	3.3	4.7	5.3	4.3	8.9	5.3	2.1
11-15	0.	22.0	23.8	5.0	0.	13.2	0.	5.3	0.	8.9	0.	0.
16-20	0.	11.0	11.7	24.8	0.	13.2	0.	6.8	0.	8.9	0.	0.
21-25	0.	24.2	20.8	16.8	0.	20.9	13.7	8.9	0.	7.1	0.	0.
26-END	0.	25.6	24.8	8.9	0.	20.9	11.3	7.1	1.8	7.1	0.	0.

YEAR : 1974												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1- 5	0.	25.6	25.6	24.8	4.0	13.2	0.	9.2	7.1	0.	7.1	3.6
6-10	0.	20.5	21.2	5.0	6.6	16.5	16.6	0.	7.1	0.	7.1	3.6
11-15	0.	22.0	24.7	9.9	11.9	13.2	14.2	0.	7.1	5.3	5.3	0.
16-20	0.	24.9	7.9	24.8	10.6	9.9	7.1	5.3	7.1	8.9	5.3	0.
21-25	0.	25.6	21.8	24.8	6.6	8.4	15.4	8.5	1.4	8.9	7.1	0.
26-END	0.	25.6	24.8	12.9	0.	0.	7.5	7.1	0.	8.9	7.1	0.

YEAR : 1975												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1- 5	0.	25.6	23.2	0.	0.	0.	19.0	1.8	7.1	0.7	0.	0.
6-10	0.	15.4	15.4	0.	0.	9.9	8.9	1.4	1.4	3.6	0.	2.8
11-15	0.	22.0	24.7	14.9	0.	10.6	17.2	0.	0.	7.8	0.	0.
16-20	0.	0.	2.7	20.8	9.9	0.	15.2	0.	0.	7.5	0.	0.
21-25	0.	22.0	20.8	5.0	13.2	2.2	15.4	0.	0.	5.3	0.	0.
26-END	0.	22.0	16.5	1.0	0.	4.0	4.0	1.2	0.	0.	0.	0.

YEAR : 1976												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1- 5	0.	25.6	24.4	18.8	2.6	16.5	10.0	11.8	7.1	0.	0.	0.7
6-10	0.	10.3	25.4	24.8	3.3	16.5	7.1	4.7	7.1	0.	5.7	3.6
11-15	0.	22.7	25.7	14.9	3.3	13.2	15.4	1.8	8.5	0.	5.3	0.
16-20	0.	25.6	25.7	14.9	9.9	13.2	8.3	8.9	5.3	0.	5.3	0.
21-25	0.	25.6	19.8	11.9	4.0	20.9	0.	8.9	0.	0.	0.	0.
26-END	0.	20.1	16.5	0.	5.5	4.2	0.	8.0	0.	0.	0.	0.

Table 21

5-DAY IRRIGATION WATER DEMAND IN NORTH PELUBANG AREA
IN PERLIS IN 1990 (3/3)Unit: m³/s

YEAR : 1977												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1- 5	0.	25.6	25.6	24.8	16.5	16.5	19.0	15.4	0.	0.	0.	3.6
6-10	0.	0.	25.6	22.8	10.6	16.5	16.6	4.5	0.	0.	0.	3.6
11-15	0.	24.2	25.7	14.9	6.6	13.2	15.4	1.8	0.	0.	3.2	0.
16-20	0.	21.2	21.3	18.8	6.6	13.2	3.1	1.8	0.	0.	5.3	0.
21-25	0.	23.8	19.8	11.9	11.9	20.9	7.8	0.	0.	0.	7.1	0.
26-END	0.	25.0	23.9	0.	14.9	9.9	2.1	0.	0.	0.	7.1	0.

YEAR : 1978												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1- 5	0.	25.6	25.6	5.0	16.5	16.5	4.1	11.8	0.	5.3	1.4	3.6
6-10	0.	25.6	25.6	9.9	16.5	16.5	2.8	0.	0.	7.5	7.1	2.8
11-15	0.	22.7	25.7	24.8	9.9	0.	3.6	0.	0.	7.8	5.3	0.
16-20	0.	14.7	16.9	0.	0.	0.	19.0	0.	0.	3.6	5.3	0.
21-25	0.	23.8	19.8	11.9	0.	4.2	17.2	0.	0.	0.7	7.1	0.
26-END	0.	25.6	24.8	20.8	11.0	20.9	11.5	0.	0.	0.	7.1	0.

YEAR : 1979												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1- 5	0.	25.6	25.6	9.9	0.	15.2	19.0	3.8	7.1	0.	7.1	2.8
6-10	0.	25.6	25.6	18.8	16.5	16.5	7.6	19.0	7.1	5.7	7.1	3.6
11-15	0.	22.0	24.7	19.8	16.5	13.2	9.5	8.9	7.1	4.3	0.	0.
16-20	0.	11.0	12.1	0.	16.5	5.3	0.	8.9	0.	0.	0.	0.
21-25	0.	24.2	20.8	0.	16.5	11.2	0.	8.9	0.	8.9	0.	0.
26-END	0.	25.6	24.8	0.	13.8	6.6	0.	7.1	0.	7.7	0.	0.

YEAR : 1980												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1- 5	0.	25.6	24.7	24.8	4.0	3.3	19.0	10.7	0.	0.	7.1	0.
6-10	0.	20.5	16.1	5.0	9.9	9.2	7.1	12.7	0.	0.	7.1	0.
11-15	0.	22.0	24.7	2.0	9.9	10.6	16.5	1.8	0.	0.	5.3	0.
16-20	0.	24.9	25.7	0.	13.9	13.2	14.5	0.4	0.	0.	5.3	0.
21-25	0.	25.6	21.8	0.	13.9	20.9	15.4	0.	0.	0.	2.8	0.
26-END	0.	25.6	21.5	0.	3.3	16.5	5.5	0.	0.	8.9	0.	0.

YEAR : 1981												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1- 5	0.	25.6	23.2	19.8	8.6	9.9	14.1	12.4	0.	8.9	5.3	3.6
6-10	0.	10.3	11.5	0.	3.3	15.2	8.9	12.1	7.1	8.9	6.4	0.
11-15	0.	22.7	24.7	0.	3.3	13.2	14.3	7.1	8.2	8.9	5.3	0.
16-20	0.	25.6	24.7	2.0	13.9	13.2	11.0	7.1	8.9	8.9	5.3	0.
21-25	0.	25.6	19.8	5.0	13.9	20.9	15.4	8.2	8.9	8.5	4.3	0.
26-END	0.	25.6	22.3	24.8	9.9	10.3	3.6	5.9	8.9	7.1	5.0	0.

YEAR : 1982												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1- 5	0.	25.6	23.2	24.8	13.2	0.	11.4	0.	7.1	1.8	0.	0.
6-10	0.	5.1	5.6	24.8	16.5	0.	0.	11.4	7.1	1.4	5.7	0.
11-15	0.	23.5	24.0	0.	16.5	0.	0.	8.9	1.4	0.	5.3	0.
16-20	0.	25.6	25.7	0.	16.5	2.6	0.	8.9	0.	0.	5.3	0.
21-25	0.	23.8	19.8	0.	6.6	20.9	0.	8.9	0.	0.	7.1	0.
26-END	0.	16.5	23.1	0.	0.	12.1	0.	8.0	1.8	0.	2.8	0.

YEAR : 1983												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1- 5	0.	25.6	25.6	17.8	6.6	16.5	15.3	17.2	0.	0.	7.1	3.6
6-10	0.	25.6	25.6	20.8	2.6	16.5	16.9	6.3	0.	3.6	7.1	3.6
11-15	0.	23.5	25.7	24.8	0.	13.2	13.6	2.1	0.	8.9	5.3	0.
16-20	0.	18.3	21.3	16.8	0.	7.9	4.1	0.	0.	8.9	5.3	0.
21-25	0.	23.8	19.8	12.9	13.2	0.	6.5	0.	0.	8.9	7.1	0.
26-END	0.	25.0	15.7	9.9	16.5	9.9	12.2	0.	0.	8.9	7.1	0.

Table 22

5-DAY IRRIGATION WATER DEMAND IN NORTH PELUBANG AREA
IN KEDAH IN 1990 (1/3)Unit: m³/s

YEAR : 1961												UNIT : M**3/SEC	
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1- 5	0.	46.6	43.1	9.0	30.0	10.8	27.4	27.8	12.8	0.	2.6	6.4	
6-10	0.	46.6	46.6	0.	25.2	18.0	27.0	12.8	10.3	0.	12.8	6.4	
11-15	0.	41.3	46.6	0.	24.0	24.0	31.0	5.1	0.	0.	9.6	0.	
16-20	0.	24.0	30.6	0.	24.0	24.0	31.0	0.	0.	0.	9.6	0.	
21-25	0.	40.0	36.0	5.4	30.0	30.4	27.8	0.	0.	0.	12.8	0.	
26-END	0.	40.0	45.0	16.2	14.0	0.	20.7	10.7	0.	0.	12.8	0.	

YEAR : 1962												UNIT : M**3/SEC	
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1- 5	0.	46.6	46.6	27.0	30.0	30.0	34.2	29.3	0.	16.1	5.1	5.1	
6-10	0.	46.6	46.6	10.8	30.0	30.0	13.7	9.6	0.	16.1	12.8	6.4	
11-15	0.	40.0	45.0	0.	12.0	24.0	0.	9.6	0.	16.1	9.6	0.	
16-20	0.	20.0	21.0	0.	0.	24.0	0.	5.8	0.	16.1	9.6	0.	
21-25	0.	44.0	27.0	7.2	0.	38.0	0.	0.	0.	0.	10.3	0.	
26-END	0.	46.6	27.0	23.6	25.0	38.0	15.5	0.	3.2	0.	0.	0.	

YEAR : 1963												UNIT : M**3/SEC	
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1- 5	0.	46.6	46.6	36.0	27.6	30.0	21.4	20.5	6.4	0.	0.	0.	
6-10	0.	37.3	38.6	36.0	18.0	30.0	17.1	9.6	2.6	0.	0.	0.	
11-15	0.	40.0	45.0	32.4	22.8	24.0	31.0	12.8	0.	0.	0.	0.	
16-20	0.	45.3	46.3	27.0	14.4	24.0	31.0	14.8	0.	0.	0.	0.	
21-25	0.	46.6	41.4	0.	0.	27.2	27.8	14.1	0.	0.	0.	0.	
26-END	0.	46.6	36.0	27.0	30.0	16.0	13.6	6.4	0.	0.	0.	0.	

YEAR : 1964												UNIT : M**3/SEC	
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1- 5	0.	46.6	44.4	45.0	9.6	30.0	30.0	0.	12.8	6.4	12.8	0.	
6-10	0.	28.0	21.7	45.0	9.6	30.0	12.8	13.7	0.	16.1	5.1	6.4	
11-15	0.	40.0	45.3	9.0	0.	19.2	5.6	16.1	0.	16.1	0.	0.	
16-20	0.	46.6	46.6	0.	9.6	12.0	0.	16.1	0.	16.1	0.	0.	
21-25	0.	46.6	37.8	0.	12.0	38.0	0.	16.1	0.	16.1	0.	0.	
26-END	0.	46.6	40.5	9.0	15.0	26.0	0.	15.0	0.	16.1	0.	0.	

YEAR : 1965												UNIT : M**3/SEC	
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1- 5	0.	46.6	42.2	0.	25.2	30.0	34.2	21.4	0.	12.2	0.	0.	
6-10	0.	9.3	12.0	0.	24.0	30.0	34.2	16.3	0.	16.1	0.	0.	
11-15	0.	42.6	44.6	0.	24.0	9.6	21.4	12.8	0.	16.1	0.	0.	
16-20	0.	46.6	46.6	0.	30.0	0.	12.4	12.8	0.	8.3	0.	0.	
21-25	0.	43.3	36.0	9.0	30.0	20.0	17.1	10.3	0.	3.9	0.	0.	
26-END	0.	30.0	12.0	45.0	30.0	18.4	0.	4.8	6.4	0.	0.	0.	

YEAR : 1966												UNIT : M**3/SEC	
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1- 5	0.	46.6	40.0	0.	12.0	0.	34.2	24.6	3.9	0.	0.	3.9	
6-10	0.	0.	6.6	9.0	4.8	0.	27.4	7.5	9.6	6.4	0.	0.	
11-15	0.	44.0	45.0	45.0	0.	0.	21.4	3.2	9.6	16.1	0.	0.	
16-20	0.	37.3	37.3	45.0	0.	9.6	4.3	3.2	3.9	16.1	1.3	0.	
21-25	0.	40.0	36.0	27.0	0.	38.0	0.	3.2	0.	16.1	12.8	0.	
26-END	0.	13.3	6.0	0.	0.	18.0	3.6	1.1	0.	10.7	12.8	0.	

YEAR : 1967												UNIT : M**3/SEC	
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1- 5	0.	37.3	46.6	23.4	0.	30.0	0.	31.0	7.7	0.	0.	2.6	
6-10	0.	0.	46.6	10.8	0.	30.0	0.	9.6	13.5	0.	0.	1.3	
11-15	0.	45.3	46.6	0.	0.	24.0	0.	11.6	16.1	3.2	7.7	0.	
16-20	0.	30.6	30.6	0.	0.	9.6	6.4	12.8	3.2	16.1	9.6	0.	
21-25	0.	43.3	36.0	0.	0.	16.0	27.2	12.8	0.	16.1	12.8	0.	
26-END	0.	46.6	45.0	0.	20.0	0.	23.9	2.1	0.	8.0	12.8	0.	

YEAR : 1968												UNIT : M**3/SEC	
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1- 5	0.	46.6	46.6	18.0	20.4	24.0	0.	13.7	3.2	0.	7.7	6.4	
6-10	0.	46.6	38.6	32.4	30.0	30.0	0.	34.2	1.3	0.	12.8	6.4	
11-15	0.	40.0	45.0	21.6	15.6	24.0	0.	12.8	0.	0.	9.6	0.	
16-20	0.	20.0	13.0	0.	7.2	24.0	0.	12.8	0.	0.	9.6	0.	
21-25	0.	44.0	30.6	0.	0.	15.2	0.	12.2	0.	0.	12.8	0.	
26-END	0.	46.6	33.0	16.2	0.	0.	0.	9.6	0.	0.	12.8	0.	

Table 23

5-DAY IRRIGATION WATER DEMAND IN NORTH PELUBANG AREA
IN KEDAH IN 1990 (2/3)

YEAR : 1969												UNIT : M ³ /SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	46.6	46.6	9.0	21.6	30.0	21.4	29.8	0.	16.1	2.6	0.
6-10	0.	28.0	30.6	0.	18.0	30.0	6.4	27.4	0.	16.1	0.	5.1
11-15	0.	40.0	45.0	27.0	0.	24.0	23.1	12.8	6.4	16.1	0.	0.
16-20	0.	6.6	5.0	37.8	0.	24.0	30.0	10.3	16.1	16.1	0.	0.
21-25	0.	45.3	32.4	9.0	6.0	7.6	27.8	5.8	16.1	16.1	0.	0.
26-END	0.	46.6	27.0	30.6	30.0	0.	10.0	0.	16.1	16.1	0.	0.

YEAR : 1970												UNIT : M ³ /SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	46.6	44.4	36.0	26.4	24.0	22.3	13.9	6.4	0.	0.	6.4
6-10	0.	18.6	21.7	0.	21.6	4.8	0.	9.6	0.	0.	0.	6.4
11-15	0.	41.3	45.0	0.	12.0	2.4	0.	9.6	0.	0.	0.	0.
16-20	0.	46.6	45.0	0.	12.0	6.0	11.1	9.6	0.	0.	0.	0.
21-25	0.	46.6	36.0	0.	16.8	38.0	24.6	7.7	0.	0.	10.3	0.
26-END	0.	46.6	40.5	45.0	24.0	22.4	9.6	6.4	0.	0.	12.8	0.

YEAR : 1971												UNIT : M ³ /SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	46.6	40.0	21.6	3.6	0.	0.	31.0	5.1	9.6	0.	0.
6-10	0.	9.3	8.0	0.	2.4	30.0	0.	18.2	12.8	16.1	0.	0.
11-15	0.	42.6	26.7	45.0	6.0	20.4	34.2	9.6	12.8	16.1	0.	0.
16-20	0.	46.6	6.6	45.0	0.	14.4	21.4	9.6	7.7	3.2	0.	0.
21-25	0.	43.3	45.0	41.4	0.	0.	28.5	1.9	0.	0.	12.8	0.
26-END	0.	28.9	39.0	27.0	0.	0.	31.0	1.6	0.	0.	5.1	0.

YEAR : 1972												UNIT : M ³ /SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	46.6	41.3	37.8	0.	30.0	34.2	3.2	12.8	0.	7.7	3.9
6-10	0.	0.	46.6	36.0	24.0	30.0	27.0	24.6	12.8	0.	0.	6.4
11-15	0.	44.0	46.6	36.0	18.0	24.0	31.0	2.6	12.8	0.	7.7	0.
16-20	0.	38.6	30.6	0.	0.	24.0	34.2	0.	2.6	0.	5.8	0.
21-25	0.	43.3	36.0	0.	30.0	32.8	14.3	0.	0.	10.3	0.	0.
26-END	0.	10.8	45.0	0.	30.0	12.0	3.2	10.7	0.	12.8	0.	0.

YEAR : 1973												UNIT : M ³ /SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	46.6	46.6	18.0	0.	15.6	27.8	26.8	5.1	0.	0.	0.
6-10	0.	46.6	46.6	7.2	24.0	6.0	11.1	9.6	1.9	0.	0.	0.
11-15	0.	40.0	45.0	0.	24.0	6.0	18.6	9.6	0.	0.	9.6	0.
16-20	0.	20.0	22.0	0.	24.0	20.4	6.4	12.2	0.	0.	9.6	0.
21-25	0.	44.0	34.2	7.2	24.0	27.6	24.8	16.1	0.	16.1	10.3	0.
26-END	0.	46.6	27.0	5.4	29.0	12.0	20.3	12.8	0.	5.4	0.	0.

YEAR : 1974												UNIT : M ³ /SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	46.6	46.6	0.	4.8	24.0	12.8	3.9	12.8	0.	10.9	0.
6-10	0.	37.3	38.6	0.	0.	30.0	32.5	0.	5.1	0.	7.7	3.9
11-15	0.	40.0	45.0	0.	0.	24.0	25.7	0.	0.	9.6	0.	0.
16-20	0.	45.3	13.0	0.	0.	0.	12.8	0.	0.	16.1	2.6	0.
21-25	0.	46.6	30.6	45.0	0.	18.8	27.8	0.	0.	16.1	9.0	0.
26-END	0.	46.6	30.0	23.4	0.	18.0	13.6	0.	0.	16.1	12.8	0.

YEAR : 1975												UNIT : M ³ /SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	46.6	46.6	36.0	18.0	0.	12.8	0.	16.1	16.1	0.	6.4
6-10	0.	28.0	30.6	9.0	0.	18.0	37.5	0.	3.2	16.1	0.	1.3
11-15	0.	40.0	45.0	3.6	0.	24.0	34.2	0.	0.	16.1	0.	0.
16-20	0.	40.0	46.6	9.0	7.2	24.0	28.7	0.	0.	9.6	0.	0.
21-25	0.	45.3	23.4	45.0	9.6	33.2	27.8	6.4	0.	0.	3.9	0.
26-END	0.	46.6	18.0	45.0	0.	26.4	4.6	16.1	9.6	0.	6.4	0.

YEAR : 1976												UNIT : M ³ /SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	46.6	42.2	23.4	0.	30.0	13.7	24.6	0.	0.	0.	1.3
6-10	0.	18.6	45.7	45.0	0.	30.0	34.2	17.6	0.	0.	0.	6.4
11-15	0.	41.3	46.6	36.0	0.	24.0	27.8	13.5	12.8	0.	0.	0.
16-20	0.	46.6	46.6	14.4	0.	24.0	16.9	16.1	9.6	0.	0.	0.
21-25	0.	46.6	36.0	0.	0.	38.0	20.3	16.1	0.	0.	0.	0.
26-END	0.	35.8	18.0	0.	10.0	7.6	3.2	8.0	0.	0.	0.	0.

Table 24 5-DAY IRRIGATION WATER DEMAND IN NORTH PELUBANG AREA
IN KEDAH IN 1990 (3/3)

Unit: m³/s

YEAR : 1977												UNIT : M ³ /SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	46.6	46.6	39.6	24.0	30.0	34.2	31.0	0.	0.	0.	6.4
6-10	0.	46.6	46.6	36.2	9.6	30.0	30.6	11.3	0.	0.	0.	6.6
11-15	0.	42.6	46.6	27.0	0.	4.8	31.0	3.9	0.	0.	5.8	0.
16-20	0.	33.3	38.6	5.4	0.	0.	8.8	0.	0.	0.	9.6	0.
21-25	0.	43.3	36.0	18.0	0.	20.0	18.6	0.	0.	0.	12.8	0.
26-END	0.	45.5	43.5	45.0	15.0	18.0	9.6	0.	0.	0.	12.8	0.

YEAR : 1978												UNIT : M ³ /SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	46.6	46.6	7.2	0.	30.0	7.5	21.4	5.1	16.1	12.2	6.4
6-10	0.	46.6	46.6	0.	0.	30.0	0.	12.8	0.	16.1	9.6	5.1
11-15	0.	41.3	46.6	0.	0.	0.	0.	14.8	0.	16.1	9.6	0.
16-20	0.	26.6	30.6	45.0	0.	0.	0.	16.1	0.	16.1	9.6	0.
21-25	0.	43.3	36.0	45.0	0.	7.6	0.	16.1	0.	16.1	12.8	0.
26-END	0.	46.6	36.0	36.0	20.0	38.0	0.	13.4	0.	16.1	12.8	0.

YEAR : 1979												UNIT : M ³ /SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	46.6	46.6	27.0	0.	12.0	37.5	6.8	2.6	0.	10.3	0.
6-10	0.	46.6	46.6	27.0	18.0	0.	16.9	34.2	0.	12.8	6.4	2.6
11-15	0.	40.0	45.0	21.6	7.2	0.	20.3	16.1	0.	16.1	0.	0.
16-20	0.	20.0	22.0	0.	6.0	0.	3.2	16.1	0.	16.1	0.	0.
21-25	0.	44.0	37.8	0.	30.0	7.2	0.6	16.1	0.	16.1	0.	0.
26-END	0.	46.6	45.0	0.	30.0	18.0	0.	12.8	0.	16.1	0.	0.

YEAR : 1980												UNIT : M ³ /SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	46.6	46.6	9.0	12.0	0.	34.2	16.1	0.	0.	12.8	0.
6-10	0.	37.3	30.6	45.0	30.0	0.	12.8	19.7	0.	0.	12.8	0.
11-15	0.	40.0	45.0	18.0	30.0	0.	29.8	0.	0.	0.	9.6	0.
16-20	0.	45.3	45.0	1.8	26.4	0.	25.5	0.	0.	0.	9.6	0.
21-25	0.	46.6	30.6	9.0	19.2	30.4	24.6	0.	0.	0.	5.1	0.
26-END	0.	46.6	21.0	1.8	0.	30.0	6.8	0.	0.	16.1	0.	0.

YEAR : 1981												UNIT : M ³ /SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	46.6	46.6	28.8	0.	30.0	30.0	24.8	16.1	8.3	9.6	6.4
6-10	0.	18.6	21.7	0.	0.	30.0	12.8	23.8	16.1	16.1	9.6	6.4
11-15	0.	41.3	45.3	0.	0.	24.0	25.3	12.8	14.1	16.1	5.1	0.
16-20	0.	46.6	46.6	18.0	24.0	24.0	16.1	12.8	10.9	16.1	0.	0.
21-25	0.	46.6	37.8	45.0	30.0	38.0	3.2	14.8	3.2	16.1	5.1	0.
26-END	0.	46.6	36.0	0.	30.0	26.0	0.	16.1	3.2	16.1	9.0	0.

YEAR : 1982												UNIT : M ³ /SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	46.6	42.2	16.2	9.6	0.	31.7	34.2	11.6	0.	0.	0.
6-10	0.	9.3	13.7	0.	19.2	6.0	27.8	21.4	6.4	0.	10.3	0.
11-15	0.	42.6	45.0	0.	30.0	6.0	21.4	12.8	6.4	0.	9.6	0.
16-20	0.	46.6	45.0	0.	24.0	9.6	8.6	12.8	3.9	0.	9.6	0.
21-25	0.	43.3	27.0	0.	9.6	38.0	0.	15.4	0.	6.4	12.8	0.
26-END	0.	30.0	27.0	0.	0.	22.0	0.	14.4	0.	13.4	5.1	0.

YEAR : 1983												UNIT : M ³ /SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	46.6	46.6	41.4	6.0	20.4	25.7	31.0	12.8	0.	12.8	3.9
6-10	0.	46.6	46.6	39.6	6.0	30.0	27.4	13.9	12.8	6.4	12.8	0.
11-15	0.	42.6	46.6	18.0	6.0	26.0	0.	5.8	12.8	16.1	9.6	0.
16-20	0.	33.3	37.6	32.4	6.0	14.4	0.	0.	5.1	16.1	9.6	0.
21-25	0.	43.3	9.0	36.0	1.2	20.0	12.4	0.	0.	16.1	12.8	0.
26-END	0.	45.5	31.5	36.0	9.0	18.0	27.5	8.6	0.	16.1	12.8	0.

Table 25

5-DAY IRRIGATION WATER DEMAND IN SOUTH PELUBANG AREA
IN 1990 (1/3)Unit: m³/s

YEAR : 1961													UNIT : M ³ /SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1-5	0.	0.	52.0	65.0	0.	39.0	35.6	0.	22.3	0.	15.1	16.0	
6-10	0.	0.	0.	39.0	0.	33.9	35.6	47.5	22.3	0.	22.3	26.7	
11-15	0.	0.	56.5	0.	0.	42.4	56.4	17.2	22.3	0.	22.3	17.8	
16-20	0.	0.	40.7	0.	0.	42.4	26.7	5.9	4.5	0.	22.3	17.8	
21-25	0.	70.7	67.8	22.9	42.4	42.4	19.0	4.5	0.	0.	35.6	5.3	
26-END	0.	0.	11.3	30.5	42.4	42.4	0.	40.3	0.	6.7	0.	0.	
YEAR : 1962													UNIT : M ³ /SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1-5	0.	0.	73.5	69.3	0.	42.4	8.9	30.9	0.	22.3	8.9	26.7	
6-10	0.	0.	73.5	35.3	0.	40.7	3.6	0.	0.	22.3	22.3	23.1	
11-15	0.	0.	65.0	38.2	0.	33.9	0.	5.9	0.	22.3	22.3	17.8	
16-20	0.	0.	31.1	38.2	0.	20.4	0.	17.2	0.	22.3	22.3	17.8	
21-25	0.	70.7	64.4	38.2	0.	17.0	14.2	47.5	0.	0.	35.6	8.9	
26-END	0.	70.7	73.5	22.9	35.3	17.0	17.8	0.	4.5	0.	35.6	8.9	
YEAR : 1963													UNIT : M ³ /SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1-5	0.	0.	73.5	69.3	25.4	15.3	8.9	23.1	13.4	0.	0.	26.7	
6-10	0.	0.	58.8	72.6	25.4	27.1	30.3	0.	5.3	0.	0.	21.4	
11-15	0.	0.	56.5	58.5	11.9	42.4	56.4	34.1	0.	0.	0.	14.2	
16-20	0.	0.	11.3	50.9	5.1	42.4	56.4	21.7	0.	0.	0.	0.	
21-25	0.	70.7	61.1	38.2	0.	22.0	47.5	37.1	0.	0.	3.6	7.1	
26-END	0.	70.7	59.4	38.2	8.5	8.5	27.7	13.4	0.	0.	8.9	8.9	
YEAR : 1964													UNIT : M ³ /SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1-5	0.	0.	65.0	69.3	27.1	42.4	0.	0.	13.4	3.6	0.	0.	
6-10	0.	0.	31.1	69.3	13.6	42.4	0.	0.	13.4	8.9	0.	26.7	
11-15	0.	0.	66.7	50.9	0.	42.4	0.	29.7	5.3	22.3	0.	17.8	
16-20	0.	0.	73.5	30.5	0.	42.4	0.	13.4	0.	22.3	0.	17.8	
21-25	0.	70.7	73.5	0.	0.	42.4	0.	43.0	0.	17.8	0.	8.9	
26-END	0.	70.7	45.2	63.6	7.1	17.0	0.	33.1	0.	0.	0.	8.9	
YEAR : 1965													UNIT : M ³ /SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1-5	0.	0.	65.0	66.7	6.8	25.4	35.6	34.1	0.	0.	13.4	24.9	
6-10	0.	0.	13.0	69.3	15.3	8.5	35.6	24.3	0.	0.	13.4	17.8	
11-15	0.	0.	63.3	12.7	25.4	8.5	0.	32.6	0.	0.	16.9	3.6	
16-20	0.	0.	73.5	12.7	33.9	13.6	16.0	8.9	0.	17.8	22.3	0.	
21-25	0.	70.7	67.8	10.2	33.9	33.9	23.7	14.8	0.	18.7	35.6	0.	
26-END	0.	47.1	30.2	0.	31.1	40.7	47.5	4.5	0.	13.4	30.3	0.	
YEAR : 1966													UNIT : M ³ /SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1-5	0.	0.	65.0	70.1	8.5	33.9	14.2	43.0	3.6	13.4	0.	16.0	
6-10	0.	0.	8.5	62.2	3.6	0.	0.	12.2	8.9	13.4	0.	0.	
11-15	0.	0.	65.0	50.9	0.	0.	0.	22.3	22.3	13.4	13.4	0.	
16-20	0.	0.	55.4	50.9	0.	17.0	0.	4.5	16.9	0.	22.3	0.	
21-25	0.	70.7	67.8	30.5	13.6	42.4	19.0	4.5	13.4	0.	35.6	1.8	
26-END	0.	23.6	20.7	0.	29.7	42.4	43.3	1.5	13.4	0.	28.5	8.9	
YEAR : 1967													UNIT : M ³ /SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1-5	0.	0.	66.7	71.8	0.	22.0	0.	34.1	0.	22.3	0.	21.4	
6-10	0.	0.	73.5	50.9	0.	42.4	10.7	4.5	0.	22.3	0.	19.6	
11-15	0.	0.	73.5	50.9	3.4	42.4	26.7	4.5	0.	17.8	17.8	17.8	
16-20	0.	0.	50.9	25.4	8.5	42.4	26.7	4.5	0.	0.	22.3	17.8	
21-25	0.	70.7	67.8	10.2	0.	33.9	7.1	4.5	0.	0.	35.6	8.9	
26-END	0.	0.	62.2	0.	5.7	0.	9.9	0.7	0.	0.	35.6	8.9	
YEAR : 1968													UNIT : M ³ /SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1-5	0.	0.	73.5	69.3	0.	0.	35.6	19.0	4.5	0.	8.0	26.7	
6-10	0.	0.	60.5	24.0	0.	0.	35.6	47.5	4.5	0.	13.4	21.4	
11-15	0.	0.	65.0	33.1	33.9	0.	33.8	38.6	3.6	0.	13.4	14.2	
16-20	0.	0.	71.8	25.4	25.4	0.	20.8	0.	0.	0.	13.4	0.	
21-25	0.	70.7	73.5	38.2	0.	35.6	0.	9.8	0.	0.	24.9	7.1	
26-END	0.	70.7	64.1	15.3	0.	42.4	0.	13.4	0.	0.	35.6	8.9	

Table 26

5-DAY IRRIGATION WATER DEMAND IN SOUTH PELUBANG AREA
IN 1990 (2/3)Unit: m³/s

YEAR : 1969												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	0.	73.5	69.3	13.6	25.4	0.	43.9	0.	0.	0.	0.
6-10	0.	0.	47.5	69.3	8.5	25.4	0.	39.8	0.	0.	0.	14.2
11-15	0.	0.	65.0	50.9	0.	20.4	33.8	38.6	0.	0.	0.	17.8
16-20	0.	0.	65.0	48.3	0.	0.	50.5	14.8	0.	0.	8.9	17.8
21-25	0.	70.7	71.2	38.2	3.4	13.6	47.5	8.9	0.	0.	17.8	8.9
26-END	0.	70.7	54.6	28.0	17.0	10.2	22.8	7.4	0.	0.	14.2	8.9

YEAR : 1970												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	0.	65.0	70.1	0.	17.0	0.	7.7	17.8	0.	0.	0.
6-10	0.	0.	31.1	73.5	8.5	3.4	0.	7.1	0.	0.	0.	0.
11-15	0.	0.	65.0	53.4	42.4	10.2	45.1	38.6	0.	0.	0.	10.7
16-20	0.	0.	65.0	30.5	22.0	25.4	44.5	8.9	0.	0.	0.	17.8
21-25	0.	70.7	72.4	0.	10.2	33.9	47.5	23.4	0.	0.	0.	8.9
26-END	0.	70.7	45.2	0.	2.8	13.6	17.8	14.8	0.	0.	0.	8.9

YEAR : 1971												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	0.	65.0	70.9	8.5	17.0	0.	43.0	4.5	13.4	0.	26.7
6-10	0.	0.	13.0	73.5	0.	42.4	0.	22.6	22.3	20.5	0.	26.7
11-15	0.	0.	63.3	50.9	0.	42.4	56.4	32.6	4.5	13.4	0.	17.8
16-20	0.	0.	73.5	58.5	17.0	33.9	38.6	8.9	0.	13.4	0.	10.7
21-25	0.	70.7	67.8	63.6	17.0	0.	42.4	1.8	0.	15.1	35.6	0.
26-END	0.	47.1	33.9	63.6	17.0	0.	22.3	0.	0.	14.8	35.6	8.9

YEAR : 1972												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	0.	66.7	70.1	0.	10.2	35.6	38.6	22.3	0.	3.6	0.
6-10	0.	0.	73.5	48.3	0.	0.	35.6	0.	22.3	13.4	0.	5.3
11-15	0.	0.	73.5	50.9	0.	33.9	56.4	11.9	22.3	22.3	0.	17.8
16-20	0.	0.	50.9	12.7	0.	33.9	26.7	0.	4.5	22.3	0.	17.8
21-25	0.	70.7	67.8	28.0	0.	35.6	29.7	0.	0.	8.0	0.	8.9
26-END	0.	17.7	73.5	30.5	11.3	42.4	17.8	39.6	0.	4.5	0.	8.9

YEAR : 1973												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	0.	73.5	69.3	0.	13.6	0.	0.	0.	8.9	3.6	19.6
6-10	0.	0.	73.5	35.3	0.	0.	0.	0.	0.	1.8	8.9	10.7
11-15	0.	0.	65.0	30.5	0.	0.	11.3	23.7	0.	0.	22.3	0.
16-20	0.	0.	36.2	0.	3.4	33.9	56.4	17.8	0.	0.	22.3	0.
21-25	0.	70.7	69.0	0.	17.0	42.4	48.4	0.	0.	0.	33.8	0.
26-END	0.	70.7	73.5	0.	31.1	42.4	23.7	0.	1.8	0.	26.7	3.0

YEAR : 1974												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	0.	73.5	69.3	13.6	33.9	0.	17.2	0.	0.	13.4	26.7
6-10	0.	0.	60.5	72.6	0.	42.4	28.5	43.0	0.	0.	13.4	21.4
11-15	0.	0.	65.0	58.5	0.	42.4	44.5	34.1	0.	0.	13.4	17.8
16-20	0.	0.	71.8	50.9	0.	42.4	26.7	16.3	0.	1.8	20.5	12.8
21-25	0.	70.7	73.5	63.6	0.	17.0	29.7	3.6	0.	8.9	32.1	8.9
26-END	0.	70.7	64.1	40.7	0.	0.	15.8	0.	0.	12.6	26.7	8.9

YEAR : 1975												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	0.	73.5	69.3	0.	0.	35.6	0.	17.8	0.9	7.1	0.
6-10	0.	0.	44.1	69.3	0.	25.4	35.6	0.	17.8	4.5	14.2	7.1
11-15	0.	0.	56.5	20.4	0.	42.4	56.4	0.	10.7	18.7	22.3	5.3
16-20	0.	0.	17.0	5.1	0.	42.4	45.1	0.	0.	13.4	22.3	0.
21-25	0.	70.7	67.8	25.4	0.	28.8	29.7	19.0	0.	0.	35.6	0.
26-END	0.	70.7	50.9	5.1	0.	32.2	4.9	42.5	0.	0.	28.5	5.9

YEAR : 1976												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	0.	65.0	68.4	0.	42.4	14.2	38.6	7.1	0.	0.	5.3
6-10	0.	0.	19.8	73.5	0.	42.4	35.6	20.8	0.	0.	14.2	26.7
11-15	0.	0.	61.6	50.9	0.	42.4	56.4	32.6	0.	0.	17.8	17.8
16-20	0.	0.	56.5	20.4	0.	42.4	38.6	8.9	0.	0.	17.8	17.8
21-25	0.	70.7	67.8	0.	0.	42.4	41.5	8.9	0.	0.	0.	8.9
26-END	0.	53.0	30.2	0.	14.1	8.5	17.8	8.9	0.	0.	0.	8.9

Table 27

5-DAY IRRIGATION WATER DEMAND IN SOUTH PELUBANG AREA
IN 1990 (3/3)Unit: m³/s

YEAR : 1977												UNIT : M ³ /SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	0.	65.0	73.5	0.	1.7	35.6	43.0	0.	11.6	0.	26.7
6-10	0.	0.	73.5	62.2	15.3	8.5	35.6	8.6	0.	5.3	0.	26.7
11-15	0.	0.	73.5	50.9	20.4	1.7	56.4	17.8	22.3	0.	0.	17.8
16-20	0.	0.	62.2	61.1	0.	0.	11.3	0.	22.3	0.	4.5	17.8
21-25	0.	70.7	67.8	53.4	13.6	0.	26.7	0.	22.3	0.	35.6	8.9
26-END	0.	23.6	72.6	38.2	8.5	42.4	22.3	0.	22.3	0.	35.6	8.9

YEAR : 1978												UNIT : M ³ /SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	0.	65.0	73.5	33.9	35.6	7.1	0.	0.	22.3	0.	26.7
6-10	0.	0.	65.0	49.2	6.8	25.4	0.	0.	0.	8.9	0.	26.7
11-15	0.	0.	65.0	38.2	0.	0.	0.	17.8	0.	0.	0.	17.8
16-20	0.	0.	42.4	0.	0.	10.2	26.7	23.7	0.	0.	0.	17.8
21-25	0.	70.7	62.2	0.	0.	22.0	17.8	29.7	0.	0.	0.	8.9
26-END	0.	0.	73.5	10.2	28.3	42.4	11.9	4.9	0.	0.	35.6	8.9

YEAR : 1979												UNIT : M ³ /SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	0.	73.5	69.3	0.	0.	35.6	13.1	3.6	0.	10.7	21.4
6-10	0.	0.	73.5	35.3	0.	0.	19.6	29.7	0.	17.8	0.	26.7
11-15	0.	0.	65.0	30.5	25.4	0.	32.6	10.4	0.	22.3	0.	17.8
16-20	0.	0.	36.2	0.	42.4	33.9	8.9	19.9	0.	22.3	0.	17.8
21-25	0.	70.7	69.0	0.	42.4	42.4	14.2	47.5	0.	22.3	0.	8.9
26-END	0.	70.7	73.5	0.	7.1	42.4	17.8	17.8	0.	19.3	0.	8.9

YEAR : 1980												UNIT : M ³ /SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	0.	73.5	69.3	17.0	25.4	35.6	0.	0.	0.	0.	0.
6-10	0.	0.	47.5	8.5	42.4	10.2	35.6	0.	0.	0.	8.9	0.
11-15	0.	0.	65.0	10.2	0.	0.	56.4	0.	0.	0.	22.3	0.
16-20	0.	0.	56.5	0.	0.	0.	45.1	0.	0.	0.	22.3	0.
21-25	0.	70.7	62.2	0.	8.5	33.9	29.7	0.	0.	0.	30.3	8.9
26-END	0.	70.7	47.1	0.	42.4	42.4	4.9	0.	0.	0.	21.4	8.9

YEAR : 1981												UNIT : M ³ /SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	0.	65.0	69.3	0.	25.4	35.6	0.	17.8	1.8	0.	26.7
6-10	0.	0.	31.1	69.3	0.	18.7	35.6	19.0	17.8	4.5	0.	26.7
11-15	0.	0.	66.7	40.7	0.	17.0	11.3	43.0	15.1	17.8	0.	17.8
16-20	0.	0.	73.5	33.1	33.9	17.0	0.	13.4	10.7	17.8	0.	17.8
21-25	0.	70.7	69.0	25.4	35.6	42.4	0.	45.7	0.	14.2	0.	8.9
26-END	0.	70.7	42.4	0.	25.4	42.4	0.	37.6	0.	0.	14.2	8.9

YEAR : 1982												UNIT : M ³ /SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	0.	65.0	68.4	0.	0.	21.4	47.5	0.	2.7	0.	24.9
6-10	0.	0.	19.8	73.5	17.0	25.4	0.	29.7	0.	3.6	0.	17.8
11-15	0.	0.	68.4	50.9	42.4	35.6	0.	38.6	0.	0.	0.	17.8
16-20	0.	0.	73.5	20.4	33.9	42.4	0.	38.6	0.	0.	0.	10.7
21-25	0.	70.7	67.8	0.	13.6	42.4	0.	8.6	0.	0.	0.	8.9
26-END	0.	47.1	30.2	0.	0.	42.4	0.	0.	0.	0.	21.4	8.9

YEAR : 1983												UNIT : M ³ /SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	0.	65.0	66.7	0.	25.4	35.6	47.5	0.	0.	22.3	26.7
6-10	0.	0.	73.5	42.2	0.	25.4	28.5	16.6	0.	5.3	22.3	26.7
11-15	0.	0.	73.5	50.9	8.5	25.4	0.	23.1	0.	13.4	22.3	17.8
16-20	0.	0.	58.8	61.1	42.4	25.4	0.	0.	0.	13.4	22.3	17.8
21-25	0.	70.7	56.5	63.6	42.4	25.4	0.	0.	0.	13.4	35.6	8.9
26-END	0.	23.6	9.4	63.6	33.9	42.4	8.7	0.	0.	16.3	28.5	8.9

Table 28

5-DAY IRRIGATION WATER DEMAND IN NORTH PELUBANG AREA
IN PERLIS IN 2000 (1/3)Unit: m³/s

YEAR : 1961												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	27.6	27.6	20.9	17.4	17.4	14.8	3.5	7.0	0.	1.4	3.5
6-10	0.	27.6	27.6	26.1	17.4	17.4	14.6	18.5	7.0	0.	7.0	3.5
11-15	0.	24.1	27.7	26.1	10.4	13.9	16.8	7.6	7.0	0.	5.2	0.
16-20	0.	13.9	18.4	0.	0.	13.9	5.2	6.6	1.4	0.	5.2	0.
21-25	0.	23.2	20.9	0.	17.4	17.6	13.3	5.2	0.	0.	7.0	0.
26-END	0.	27.6	0.	5.2	17.4	0.	10.0	6.7	0.	0.	7.0	0.

YEAR : 1962												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	27.6	27.6	26.1	0.	17.4	18.5	16.2	0.	8.7	0.	3.5
6-10	0.	27.6	27.6	10.4	7.0	17.4	7.4	7.0	0.	8.7	0.	3.5
11-15	0.	23.2	26.5	0.	2.8	13.9	0.	7.0	0.	8.7	0.	0.
16-20	0.	11.9	13.3	0.	1.4	13.9	0.	7.0	0.	8.7	0.	0.
21-25	0.	25.8	21.9	8.3	7.0	17.4	0.	7.0	0.	0.	1.4	0.
26-END	0.	27.6	26.1	6.3	15.6	10.4	8.4	0.	1.7	0.	7.0	0.

YEAR : 1963												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	27.6	27.6	20.9	17.4	13.9	7.0	10.4	0.	0.	0.	0.
6-10	0.	22.1	22.9	20.9	17.4	15.3	17.6	3.5	0.	0.	0.	0.
11-15	0.	23.2	26.5	16.7	14.6	13.9	18.5	7.0	0.	0.	0.	0.
16-20	0.	26.7	27.4	10.4	9.7	13.9	18.5	8.0	0.	0.	0.	0.
21-25	0.	27.6	19.8	5.2	3.5	8.8	15.1	7.0	0.	0.	0.	0.
26-END	0.	27.6	12.2	17.7	13.9	1.4	7.3	0.	0.	0.	0.	0.

YEAR : 1964												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	27.6	26.1	25.0	10.4	13.9	16.2	0.	8.7	2.1	0.	0.
6-10	0.	16.5	13.1	20.9	16.0	16.7	7.0	0.	8.7	5.2	0.	3.5
11-15	0.	23.2	26.8	8.3	10.4	13.9	5.8	0.	3.5	7.0	0.	0.
16-20	0.	27.6	27.7	3.1	10.4	13.9	3.5	5.2	0.	8.0	0.	0.
21-25	0.	27.6	21.9	0.	10.4	22.0	15.1	7.3	0.	7.0	0.	0.
26-END	0.	27.6	23.5	0.	11.0	13.0	0.	8.7	0.	0.	0.	0.

YEAR : 1965												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	27.6	26.1	24.0	14.6	17.4	19.2	16.8	0.	5.2	0.	2.8
6-10	0.	5.5	27.3	20.9	8.3	17.4	20.3	10.9	0.	8.7	0.	0.
11-15	0.	24.9	27.7	0.	0.	5.6	16.8	6.3	0.	8.7	2.1	0.
16-20	0.	27.6	27.7	0.	13.9	1.4	10.9	3.5	0.	1.7	5.2	0.
21-25	0.	25.4	20.9	5.2	16.0	18.5	13.1	2.1	0.	0.	7.0	0.
26-END	0.	18.4	24.3	26.1	17.4	12.1	5.2	0.9	0.	0.	4.9	0.

YEAR : 1966												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	27.6	24.6	15.6	3.5	17.4	12.5	16.8	7.0	0.	0.	0.
6-10	0.	0.	27.6	20.9	1.4	17.4	15.5	7.5	7.0	2.8	0.	0.
11-15	0.	25.8	27.7	0.	0.	11.1	11.6	5.2	8.7	7.0	0.	0.
16-20	0.	22.9	22.8	0.	0.	7.6	5.1	5.2	3.5	7.0	0.	0.
21-25	0.	25.4	15.6	0.	0.	15.1	13.7	5.2	0.	2.8	0.	0.
26-END	0.	9.9	2.6	0.	8.7	3.5	14.9	6.4	0.	0.	0.	0.

YEAR : 1967												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	22.1	27.6	26.1	0.	7.0	0.	16.8	4.2	0.	0.	0.
6-10	0.	0.	27.6	15.6	0.	17.4	2.8	5.2	5.6	0.	0.	0.7
11-15	0.	26.7	26.8	0.	0.	13.9	3.5	7.5	0.	1.7	0.	0.
16-20	0.	18.3	17.7	0.	0.	5.6	0.	8.7	0.	8.7	0.	0.
21-25	0.	25.4	20.9	3.1	0.	9.3	7.8	8.7	0.	8.7	0.	0.
26-END	0.	27.6	26.1	4.2	0.	0.	5.2	1.4	0.	4.3	0.	0.

YEAR : 1968												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	27.6	27.6	10.4	0.	17.4	3.5	11.1	0.	0.	6.3	3.5
6-10	0.	27.6	22.9	14.6	0.	17.4	15.5	5.2	0.	0.	7.0	1.4
11-15	0.	23.2	26.5	9.4	0.	13.9	17.5	5.2	0.	4.2	5.2	0.
16-20	0.	11.9	8.9	0.	7.0	7.0	18.5	7.3	0.	7.0	5.2	0.
21-25	0.	25.8	20.9	0.	17.4	14.4	15.1	7.6	0.	7.0	7.0	0.
26-END	0.	27.6	19.1	0.	17.4	10.0	7.3	3.5	0.	7.0	7.0	0.

Table 29 5-DAY IRRIGATION WATER DEMAND IN NORTH PELUBANG AREA IN PERLIS IN 2000 (2/3)

Unit: m³/s

YEAR : 1969													UNIT : M ³ /SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1-5	0.	27.6	27.3	0.	0.	17.4	11.6	16.8	0.	8.7	5.2	0.	
6-10	0.	16.5	18.3	0.	0.	17.4	0.	14.8	0.	8.7	5.2	2.8	
11-15	0.	23.2	26.5	15.6	0.	13.9	2.1	7.0	0.	1.7	3.5	0.	
16-20	0.	27.6	3.4	26.1	6.3	13.9	2.8	7.0	0.	0.	0.	0.	
21-25	0.	26.3	15.6	26.1	11.8	13.7	11.6	6.3	1.7	0.	0.	0.	
26-END	0.	25.4	10.4	5.2	17.4	7.0	6.3	4.3	5.9	5.2	0.	0.	

YEAR : 1970													UNIT : M ³ /SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1-5	0.	27.6	26.1	4.2	13.9	0.	14.8	4.1	7.0	0.	0.	3.5	
6-10	0.	11.0	13.1	0.	11.1	13.9	0.	3.8	0.	0.	0.	3.5	
11-15	0.	24.1	26.5	20.9	0.	13.9	0.	7.0	0.	0.	0.	0.	
16-20	0.	27.6	26.5	26.1	0.	13.9	0.	8.7	0.	0.	0.	0.	
21-25	0.	27.6	20.9	26.1	0.	22.0	0.	8.7	0.	0.	0.	0.	
26-END	0.	27.6	13.0	20.9	0.	15.1	11.6	8.1	0.	0.	2.8	0.	

YEAR : 1971													UNIT : M ³ /SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1-5	0.	27.6	23.2	10.4	1.4	0.	1.4	16.8	2.8	5.2	0.	0.	
6-10	0.	5.5	4.6	26.1	0.	17.4	3.5	9.9	7.0	8.3	0.	0.	
11-15	0.	24.9	25.0	26.1	0.	13.9	18.5	5.2	7.0	7.0	0.	0.	
16-20	0.	27.6	27.7	26.1	17.4	11.1	9.5	5.2	4.2	1.4	0.	0.	
21-25	0.	25.4	0.	22.9	17.4	0.	15.1	1.0	0.	0.	7.0	0.	
26-END	0.	16.9	0.	10.4	11.6	0.	15.1	0.9	0.	0.	2.8	0.	

YEAR : 1972													UNIT : M ³ /SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1-5	0.	27.6	24.1	3.1	0.	13.2	18.5	15.1	7.0	0.	5.6	0.	
6-10	0.	27.6	27.6	10.4	13.9	7.0	14.6	1.7	7.0	5.2	0.	0.	
11-15	0.	24.9	27.7	26.1	17.4	3.5	16.8	1.7	7.0	8.7	0.	0.	
16-20	0.	19.4	18.4	0.	17.4	3.5	5.2	3.1	1.4	8.7	0.	0.	
21-25	0.	25.4	20.9	9.4	17.4	11.4	13.3	8.7	0.	8.7	0.	0.	
26-END	0.	6.3	15.6	12.5	17.4	10.4	10.0	7.2	0.	8.7	0.	0.	

YEAR : 1973													UNIT : M ³ /SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1-5	0.	27.6	27.6	0.	0.	0.	11.6	14.5	7.0	8.7	5.2	2.8	
6-10	0.	27.6	27.6	0.	0.	3.5	4.6	5.2	4.2	8.7	5.2	2.1	
11-15	0.	23.2	25.4	5.2	0.	13.9	0.	5.2	0.	8.7	0.	0.	
16-20	0.	11.9	12.9	26.1	0.	13.9	0.	6.6	0.	8.7	0.	0.	
21-25	0.	25.8	21.9	17.7	0.	22.0	13.4	8.7	0.	7.0	0.	0.	
26-END	0.	27.6	26.1	9.4	0.	22.0	11.0	7.0	1.7	7.0	0.	0.	

YEAR : 1974													UNIT : M ³ /SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1-5	0.	27.6	27.6	26.1	4.2	13.9	0.	9.0	7.0	0.	7.0	3.5	
6-10	0.	22.1	22.9	5.2	7.0	17.4	16.2	0.	7.0	0.	7.0	3.5	
11-15	0.	23.2	26.5	10.4	12.5	13.9	13.9	0.	7.0	5.2	5.2	0.	
16-20	0.	26.7	8.9	26.1	11.1	10.4	7.0	5.2	7.0	8.7	5.2	0.	
21-25	0.	27.6	22.9	26.1	7.0	8.8	15.1	8.3	1.4	8.7	7.0	0.	
26-END	0.	27.6	26.1	13.6	0.	0.	7.3	7.0	0.	8.7	7.0	0.	

YEAR : 1975													UNIT : M ³ /SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1-5	0.	27.6	24.6	0.	0.	0.	18.5	1.7	7.0	0.7	0.	0.	
6-10	0.	16.5	16.5	0.	0.	10.4	8.7	1.4	1.4	3.5	0.	2.8	
11-15	0.	23.2	26.5	15.6	0.	11.1	16.8	0.	0.	7.6	0.	0.	
16-20	0.	0.	3.4	21.9	10.4	0.	14.8	0.	0.	7.3	0.	0.	
21-25	0.	23.2	21.9	5.2	13.9	2.3	15.1	0.	0.	5.2	0.	0.	
26-END	0.	23.2	17.4	1.0	0.	4.2	4.0	1.2	0.	0.	0.	0.	

YEAR : 1976													UNIT : M ³ /SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1-5	0.	27.6	26.1	17.7	2.8	17.4	9.7	11.6	7.0	0.	0.	0.7	
6-10	0.	11.0	27.3	20.9	3.5	17.4	7.0	4.6	7.0	0.	5.6	3.5	
11-15	0.	24.1	27.7	20.9	3.5	13.9	15.1	1.7	8.3	0.	5.2	0.	
16-20	0.	27.6	27.7	17.7	10.4	13.9	8.1	8.7	5.2	0.	5.2	0.	
21-25	0.	27.6	20.9	12.5	4.2	22.0	0.	8.7	0.	0.	0.	0.	
26-END	0.	21.8	17.4	0.	5.8	4.4	0.	7.8	0.	0.	0.	0.	

Table 30

5-DAY IRRIGATION WATER DEMAND IN NORTH PELUBANG AREA
IN PERLIS IN 2000 (3/3)Unit: m³/s

YEAR : 1977												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1- 5	0.	27.6	27.6	26.1	17.4	17.4	18.5	15.1	0.	0.	0.	3.5
6-10	0.	0.	27.6	24.0	11.1	17.4	16.2	4.4	0.	0.	0.	3.5
11-15	0.	25.8	27.7	15.6	7.0	13.9	15.1	1.7	0.	0.	3.1	0.
16-20	0.	22.9	23.0	19.8	7.0	13.9	3.0	1.7	0.	0.	5.2	0.
21-25	0.	25.4	20.9	12.5	12.5	22.0	7.6	0.	0.	0.	7.0	0.
26-END	0.	26.8	25.2	0.	15.6	10.4	2.0	0.	0.	0.	7.0	0.

YEAR : 1978												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1- 5	0.	27.6	27.6	5.2	17.4	17.4	4.1	11.6	0.	5.2	1.4	3.5
6-10	0.	27.6	27.6	10.4	17.4	17.4	2.8	0.	0.	7.3	7.0	2.8
11-15	0.	24.1	27.7	26.1	10.4	0.	3.5	0.	0.	7.6	5.2	0.
16-20	0.	15.7	18.4	0.	0.	0.	18.5	0.	0.	3.5	5.2	0.
21-25	0.	25.4	20.9	12.5	0.	4.4	16.8	0.	0.	0.7	7.0	0.
26-END	0.	27.6	26.1	21.9	11.6	22.0	11.2	0.	0.	0.	7.0	0.

YEAR : 1979												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1- 5	0.	27.6	27.6	10.4	0.	16.0	18.5	3.7	7.0	0.	7.0	2.8
6-10	0.	27.6	27.6	19.8	17.4	17.4	7.4	18.5	7.0	5.6	7.0	3.5
11-15	0.	23.2	26.5	20.9	17.4	13.9	9.3	8.7	7.0	4.2	0.	0.
16-20	0.	11.9	13.3	0.	17.4	5.6	0.	8.7	0.	0.	0.	0.
21-25	0.	25.8	21.9	0.	17.4	11.8	0.	8.7	0.	8.7	0.	0.
26-END	0.	27.6	26.1	0.	14.5	7.0	0.	7.0	0.	7.5	0.	0.

YEAR : 1980												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1- 5	0.	27.6	26.4	26.1	4.2	3.5	18.5	10.4	0.	0.	7.0	0.
6-10	0.	22.1	17.4	5.2	10.4	9.7	7.0	12.4	0.	0.	7.0	0.
11-15	0.	23.2	26.5	2.1	10.4	11.1	16.1	1.7	0.	0.	5.2	0.
16-20	0.	26.7	27.7	0.	14.6	13.9	14.1	0.3	0.	0.	5.2	0.
21-25	0.	27.6	22.9	0.	14.6	22.0	15.1	0.	0.	0.	2.8	0.
26-END	0.	27.6	22.6	0.	3.5	17.4	5.4	0.	0.	8.7	0.	0.

YEAR : 1981												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1- 5	0.	27.6	23.2	20.9	9.0	10.4	13.8	15.1	0.	8.7	5.2	3.5
6-10	0.	11.0	11.9	0.	3.5	16.0	8.7	11.8	7.0	8.7	6.3	0.
11-15	0.	24.1	26.5	0.	3.5	13.9	14.0	7.0	8.0	8.7	5.2	0.
16-20	0.	27.6	26.5	2.1	14.6	13.9	10.8	7.0	8.7	8.7	5.2	0.
21-25	0.	27.6	20.9	5.2	14.6	22.0	15.1	8.0	8.7	8.3	4.2	0.
26-END	0.	27.6	23.5	26.1	10.4	10.9	3.5	5.8	8.7	7.0	4.9	0.

YEAR : 1982												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1- 5	0.	27.6	24.6	26.1	13.9	0.	11.1	0.	7.0	1.7	0.	0.
6-10	0.	5.5	6.1	26.1	17.4	0.	0.	11.1	7.0	1.4	5.6	0.
11-15	0.	24.9	25.7	0.	17.4	0.	0.	8.7	1.4	0.	5.2	0.
16-20	0.	27.6	27.7	0.	17.4	2.8	0.	8.7	0.	0.	5.2	0.
21-25	0.	25.4	20.9	0.	7.0	22.0	0.	8.7	0.	0.	7.0	0.
26-END	0.	17.7	24.3	0.	0.	12.7	0.	7.8	1.7	0.	2.8	0.

YEAR : 1983												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1- 5	0.	27.6	27.6	18.8	3.5	17.4	14.9	16.8	0.	0.	7.0	3.5
6-10	0.	27.6	27.6	20.9	1.4	17.4	16.6	6.1	0.	3.5	7.0	3.5
11-15	0.	24.9	27.7	20.9	0.	13.9	13.3	2.1	0.	8.7	5.2	0.
16-20	0.	19.4	23.0	16.7	0.	8.3	4.1	0.	0.	8.7	5.2	0.
21-25	0.	25.4	20.9	15.6	13.9	0.	6.4	0.	0.	8.7	7.0	0.
26-END	0.	26.8	16.5	15.6	17.4	10.4	12.0	0.	0.	8.7	7.0	0.

Table 31

5-DAY IRRIGATION WATER DEMAND IN NORTH PELUBANG AREA
IN KEDAH IN 2000 (1/3)Unit: m³/s

YEAR : 1961												
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	48.8	44.7	7.4	30.8	11.1	26.3	26.7	12.3	0.	2.5	6.2
6-10	0.	48.8	48.8	0.	25.9	18.5	25.9	12.3	9.9	0.	12.3	6.2
11-15	0.	42.6	49.0	0.	24.6	24.6	29.8	4.9	0.	0.	9.3	0.
16-20	0.	24.6	32.6	0.	24.6	24.6	29.8	0.	0.	0.	9.3	0.
21-25	0.	41.0	36.9	5.5	30.8	31.2	26.7	0.	0.	0.	12.3	0.
26-END	0.	41.0	36.9	16.6	14.4	0.	19.9	10.3	0.	0.	12.3	0.

YEAR : 1962												
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	48.8	48.8	27.7	30.8	30.8	32.9	28.2	0.	15.4	4.9	4.9
6-10	0.	48.8	48.8	11.1	30.8	30.8	13.2	9.3	0.	15.4	12.3	6.2
11-15	0.	41.0	47.0	0.	12.3	24.6	0.	9.3	0.	15.4	9.3	0.
16-20	0.	21.1	22.4	0.	0.	24.6	0.	5.6	0.	15.4	9.3	0.
21-25	0.	45.7	27.7	7.4	0.	39.0	0.	0.	0.	0.	9.9	0.
26-END	0.	48.8	27.7	24.0	25.6	39.0	14.9	0.	3.1	0.	0.	0.

YEAR : 1963												
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	48.8	48.8	36.9	28.3	30.8	20.6	19.7	6.2	0.	0.	0.
6-10	0.	39.1	40.6	29.5	18.5	30.8	16.4	9.3	2.5	0.	0.	0.
11-15	0.	41.0	47.0	31.4	23.4	24.6	29.8	12.3	0.	0.	0.	0.
16-20	0.	47.3	48.6	36.9	14.8	24.6	29.8	14.2	0.	0.	0.	0.
21-25	0.	48.8	42.5	0.	0.	27.9	26.7	13.6	0.	0.	0.	0.
26-END	0.	48.8	36.9	27.7	30.8	16.4	13.0	6.2	0.	0.	0.	0.

YEAR : 1964												
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	48.8	46.2	46.2	9.8	30.8	28.8	0.	12.3	6.2	12.3	0.
6-10	0.	29.3	23.1	46.2	9.8	30.8	12.3	13.2	0.	15.4	4.9	6.2
11-15	0.	41.0	47.4	9.2	0.	19.7	5.3	15.4	0.	15.4	0.	0.
16-20	0.	48.8	49.0	0.	9.8	12.3	0.	15.4	0.	15.4	0.	0.
21-25	0.	48.8	38.8	0.	12.3	39.0	0.	15.4	0.	15.4	0.	0.
26-END	0.	48.8	41.6	9.2	15.4	26.7	0.	14.4	0.	15.4	0.	0.

YEAR : 1965												
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	48.8	43.6	0.	25.9	30.8	32.9	20.6	0.	11.7	0.	0.
6-10	0.	9.8	12.9	0.	24.6	30.8	32.9	15.6	0.	15.4	0.	0.
11-15	0.	44.2	46.6	0.	24.6	9.8	20.6	12.3	0.	15.4	0.	0.
16-20	0.	48.8	49.0	0.	30.8	0.	11.9	12.3	0.	8.0	0.	0.
21-25	0.	44.9	36.9	9.2	30.8	20.5	16.4	9.9	0.	3.7	0.	0.
26-END	0.	31.3	12.3	46.2	30.8	18.9	0.	4.6	6.2	0.	0.	0.

YEAR : 1966												
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	48.8	41.0	0.	12.3	0.	32.9	23.6	3.7	0.	0.	3.7
6-10	0.	0.	7.8	9.2	4.9	0.	26.3	7.2	9.3	6.2	0.	0.
11-15	0.	45.7	47.0	46.2	0.	0.	20.6	3.1	9.3	15.4	0.	0.
16-20	0.	39.1	39.2	46.2	0.	9.8	4.1	3.1	3.7	15.4	1.2	0.
21-25	0.	41.0	36.9	27.7	0.	39.0	0.	3.1	0.	15.4	12.3	0.
26-END	0.	13.7	6.2	0.	0.	18.5	3.4	1.0	0.	10.3	12.3	0.

YEAR : 1967												
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	39.1	48.8	24.0	0.	30.8	0.	29.8	7.4	0.	0.	2.5
6-10	0.	0.	48.8	11.1	0.	30.8	0.	9.3	13.0	0.	0.	1.2
11-15	0.	47.3	49.0	0.	0.	24.6	0.	11.1	15.4	3.1	7.4	0.
16-20	0.	32.4	32.6	0.	0.	9.8	6.2	12.3	3.1	15.4	9.3	0.
21-25	0.	44.9	36.9	0.	0.	16.4	26.1	12.3	0.	15.4	12.3	0.
26-END	0.	48.8	46.2	0.	20.5	0.	23.0	2.1	0.	7.7	12.3	0.

YEAR : 1968												
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	48.8	48.8	18.5	14.8	24.6	0.	13.2	3.1	0.	7.4	6.2
6-10	0.	48.8	40.6	25.9	24.6	30.8	0.	32.9	1.2	0.	12.3	6.2
11-15	0.	41.0	47.0	16.6	19.7	24.6	0.	12.3	0.	0.	9.3	0.
16-20	0.	21.1	14.2	0.	13.5	24.6	0.	12.3	0.	0.	9.3	0.
21-25	0.	45.7	31.4	9.2	6.2	15.6	0.	11.7	0.	0.	12.3	0.
26-END	0.	48.8	33.9	14.8	0.	0.	0.	9.3	0.	0.	12.3	0.

Table 32

5-DAY IRRIGATION WATER DEMAND IN NORTH PELUBANG AREA
IN KEDAH IN 2000 (2/3)Unit: m³/s

YEAR : 1969													UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1-5	0.	48.8	48.8	9.2	22.2	30.8	20.6	28.6	0.	15.4	2.5	0.	
6-10	0.	29.3	32.4	0.	18.5	30.8	6.2	26.3	0.	15.4	0.	4.9	
11-15	0.	41.0	47.0	27.7	0.	24.6	22.2	12.3	6.2	15.4	0.	0.	
16-20	0.	7.8	6.0	38.8	0.	24.6	28.8	9.9	15.4	15.4	0.	0.	
21-25	0.	47.3	33.2	9.2	6.2	7.8	26.7	5.6	15.4	15.4	0.	0.	
26-END	0.	48.8	27.7	31.4	30.8	0.	9.6	0.	15.4	15.4	0.	0.	

YEAR : 1970													UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1-5	0.	48.8	46.2	36.9	27.1	24.6	21.4	13.4	6.2	0.	0.	6.2	
6-10	0.	19.5	23.1	0.	22.2	4.9	0.	9.3	0.	0.	0.	6.2	
11-15	0.	42.6	47.0	0.	12.3	2.5	0.	9.3	0.	0.	0.	0.	
16-20	0.	48.8	47.0	0.	12.3	6.2	10.7	9.3	0.	0.	0.	0.	
21-25	0.	48.8	36.9	0.	17.2	39.0	23.6	7.4	0.	0.	9.9	0.	
26-END	0.	48.8	41.6	46.2	24.6	23.0	9.3	6.2	0.	0.	12.3	0.	

YEAR : 1971													UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1-5	0.	48.8	41.0	22.2	3.7	0.	0.	29.8	4.9	9.3	0.	0.	
6-10	0.	9.8	8.2	0.	2.5	30.8	0.	17.5	12.3	15.4	0.	0.	
11-15	0.	44.2	27.8	86.2	6.2	20.9	32.9	9.3	12.3	15.4	0.	0.	
16-20	0.	48.8	8.0	46.2	0.	14.8	20.6	9.3	7.4	3.1	0.	0.	
21-25	0.	44.9	46.2	42.5	0.	0.	27.3	1.9	0.	0.	12.3	0.	
26-END	0.	30.0	40.0	27.7	0.	0.	29.8	1.5	0.	0.	4.9	0.	

YEAR : 1972													UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1-5	0.	48.8	42.6	38.3	0.	30.8	32.9	3.1	12.3	0.	7.4	3.7	
6-10	0.	0.	48.8	36.9	24.6	30.8	25.9	23.6	12.3	0.	0.	6.2	
11-15	0.	45.7	49.0	36.9	18.5	24.6	29.8	2.5	12.3	0.	7.4	0.	
16-20	0.	40.6	32.6	0.	0.	24.6	32.9	0.	2.5	0.	5.6	0.	
21-25	0.	44.9	36.9	0.	30.8	33.7	13.8	0.	0.	9.9	0.	0.	
26-END	0.	11.2	46.2	0.	30.8	12.3	3.1	10.3	0.	12.3	0.	0.	

YEAR : 1973													UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1-5	0.	48.8	48.8	18.5	0.	16.0	26.7	25.7	4.9	0.	0.	0.	
6-10	0.	48.8	48.8	7.4	24.6	6.2	10.7	9.3	1.9	0.	0.	0.	
11-15	0.	41.0	47.0	0.	24.6	6.2	17.7	9.3	0.	0.	9.3	0.	
16-20	0.	21.1	23.6	0.	24.6	20.9	6.2	11.7	0.	0.	9.3	0.	
21-25	0.	45.7	35.1	7.4	24.6	28.3	23.8	15.4	0.	15.4	9.9	0.	
26-END	0.	48.8	27.7	5.5	29.8	12.3	19.5	12.3	0.	5.1	0.	0.	

YEAR : 1974													UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1-5	0.	48.8	48.8	0.	4.9	24.6	12.3	3.7	12.3	0.	10.5	0.	
6-10	0.	39.1	40.6	0.	0.	30.8	31.3	0.	4.9	0.	7.4	3.7	
11-15	0.	41.0	47.0	0.	0.	24.6	24.7	0.	0.	9.3	0.	0.	
16-20	0.	47.3	14.2	0.	0.	0.	12.3	0.	0.	15.4	2.5	0.	
21-25	0.	48.8	31.4	46.2	0.	19.3	26.7	0.	0.	15.4	8.6	0.	
26-END	0.	48.8	30.8	24.0	0.	18.5	13.0	0.	0.	15.4	12.3	0.	

YEAR : 1975													UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1-5	0.	48.8	48.8	36.9	18.5	0.	12.3	0.	15.4	15.4	0.	6.2	
6-10	0.	29.3	32.4	9.2	0.	18.5	36.0	0.	3.1	15.4	0.	1.2	
11-15	0.	41.0	47.0	3.7	0.	24.6	32.9	0.	0.	15.4	0.	0.	
16-20	0.	41.0	49.0	9.2	7.4	24.6	27.5	0.	0.	9.3	0.	0.	
21-25	0.	47.3	24.0	46.2	9.8	34.1	26.7	6.2	0.	0.	3.7	0.	
26-END	0.	48.8	18.5	46.2	0.	27.1	4.5	15.4	9.3	0.	6.2	0.	

YEAR : 1976													UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1-5	0.	48.8	43.6	24.0	0.	30.8	13.2	23.6	0.	0.	0.	1.2	
6-10	0.	19.5	47.8	46.2	0.	30.8	32.9	16.9	0.	0.	0.	6.2	
11-15	0.	42.6	49.0	36.9	0.	24.6	26.7	13.0	0.	0.	0.	0.	
16-20	0.	48.8	49.0	14.8	0.	24.6	16.2	15.4	9.3	0.	0.	0.	
21-25	0.	48.8	36.9	0.	0.	39.0	19.5	15.4	0.	0.	0.	0.	
26-END	0.	37.6	18.5	0.	10.3	7.8	3.1	7.7	0.	0.	0.	0.	

Table 33

5-DAY IRRIGATION WATER DEMAND IN NORTH PELUBANG AREA
IN KEDAH IN 2000 (3/3)Unit: m³/s

YEAR : 1977												
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	48.8	48.8	40.6	24.6	30.8	32.9	29.8	0.	0.	0.	6.2
6-10	0.	48.8	48.8	35.1	9.8	30.8	29.4	10.9	0.	0.	0.	6.2
11-15	0.	44.2	49.0	27.7	0.	4.9	29.8	3.7	0.	0.	5.6	0.
16-20	0.	34.4	40.8	5.5	0.	0.	8.4	0.	0.	0.	9.3	0.
21-25	0.	44.9	36.9	18.5	0.	20.5	17.9	0.	0.	0.	12.3	0.
26-END	0.	47.5	44.6	46.2	15.4	18.5	9.3	0.	0.	0.	12.3	0.

YEAR : 1978												
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	48.8	48.8	7.4	0.	30.8	7.2	20.6	4.9	15.4	11.7	6.2
6-10	0.	48.8	48.8	0.	0.	30.8	0.	12.3	0.	15.4	9.3	4.9
11-15	0.	42.6	49.0	0.	0.	0.	0.	14.2	0.	15.4	9.3	0.
16-20	0.	27.7	32.6	46.2	0.	0.	0.	15.4	0.	15.4	9.3	0.
21-25	0.	44.9	36.9	46.2	0.	7.8	0.	15.4	0.	15.4	12.3	0.
26-END	0.	48.8	36.9	36.9	20.5	39.0	0.	12.8	0.	15.4	12.3	0.

YEAR : 1979												
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	48.8	48.8	27.7	0.	12.3	36.0	6.6	2.5	0.	9.9	0.
6-10	0.	48.8	48.8	22.2	18.5	0.	16.2	32.9	0.	12.3	6.2	2.5
11-15	0.	41.0	47.0	14.8	7.4	0.	19.5	15.4	0.	15.4	0.	0.
16-20	0.	21.1	23.6	0.	6.2	0.	3.1	15.4	0.	15.4	0.	0.
21-25	0.	45.7	38.8	0.	30.8	7.4	0.	15.4	0.	15.4	0.	0.
26-END	0.	48.8	46.2	0.	30.8	18.5	0.	12.3	0.	15.4	0.	0.

YEAR : 1980												
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	48.8	46.2	18.5	12.3	0.	32.9	15.4	0.	0.	12.3	0.
6-10	0.	39.1	30.8	46.2	30.8	0.	12.3	18.9	0.	0.	12.3	0.
11-15	0.	41.0	47.0	18.5	30.8	0.	28.6	0.	0.	0.	9.3	0.
16-20	0.	47.3	45.0	1.8	27.1	0.	24.5	0.	0.	0.	9.3	0.
21-25	0.	47.3	22.2	9.2	19.7	31.2	23.6	0.	0.	0.	4.9	0.
26-END	0.	44.9	18.5	1.8	0.	30.8	6.5	0.	0.	15.4	0.	0.

YEAR : 1981												
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	48.8	43.6	29.5	0.	30.8	28.8	23.8	15.4	8.0	9.3	6.2
6-10	0.	19.5	22.1	0.	0.	30.8	12.3	22.8	15.4	15.4	9.3	6.2
11-15	0.	42.6	47.4	0.	0.	24.6	24.3	12.3	13.6	15.4	4.9	0.
16-20	0.	48.8	49.0	18.5	24.6	24.6	15.4	12.3	10.5	15.4	0.	0.
21-25	0.	48.8	38.8	46.2	30.8	39.0	3.1	14.2	3.1	15.4	4.9	0.
26-END	0.	48.8	36.9	0.	30.8	26.7	0.	15.4	3.1	15.4	8.6	0.

YEAR : 1982												
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	48.8	43.6	11.1	9.8	0.	30.4	32.9	11.1	0.	0.	0.
6-10	0.	9.8	14.9	0.	19.7	6.2	26.7	20.6	6.2	0.	9.9	0.
11-15	0.	44.2	47.0	0.	30.8	6.2	20.6	12.3	6.2	0.	9.3	0.
16-20	0.	48.8	47.0	0.	24.6	9.8	8.2	12.3	3.7	0.	9.3	0.
21-25	0.	44.9	27.7	0.	9.8	39.0	0.	14.8	0.	6.2	12.3	0.
26-END	0.	31.3	21.5	0.	0.	22.6	0.	13.9	0.	12.8	4.9	0.

YEAR : 1983												
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	48.8	48.8	46.2	12.3	16.0	24.7	29.8	12.3	0.	12.3	3.7
6-10	0.	48.8	48.8	40.6	12.3	30.8	26.3	13.4	12.3	6.2	12.3	0.
11-15	0.	44.2	49.0	18.5	12.3	24.6	0.	5.6	12.3	15.4	9.3	0.
16-20	0.	34.4	39.2	25.9	12.3	14.8	0.	0.	4.9	15.4	9.3	0.
21-25	0.	44.9	0.	35.1	2.5	20.5	11.9	0.	0.	15.4	12.3	0.
26-END	0.	47.5	38.5	46.2	6.2	18.5	26.4	8.2	0.	15.4	12.3	0.

Table 34

5-DAY IRRIGATION WATER DEMAND IN SOUTH PELUBANG AREA
IN 2000 (1/3)Unit: m³/s

YEAR : 1961												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	0.	53.9	67.5	0.	39.7	34.8	0.	21.7	0.	14.8	15.6
6-10	0.	0.	0.	40.5	0.	34.5	34.8	46.3	21.7	0.	21.7	26.1
11-15	0.	0.	57.6	0.	0.	43.2	55.0	16.8	21.7	0.	21.7	17.4
16-20	0.	0.	42.5	0.	0.	43.2	26.1	5.8	4.3	0.	21.7	17.4
21-25	0.	72.0	70.8	23.3	43.2	43.2	18.5	4.3	0.	0.	34.8	5.2
26-END	0.	0.	13.2	31.1	43.2	43.2	0.	39.3	0.	6.5	0.	0.

YEAR : 1962												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	0.	73.3	72.4	0.	43.2	8.7	30.1	0.	21.7	8.7	26.1
6-10	0.	0.	67.4	37.9	0.	41.5	3.5	0.	0.	21.7	21.7	22.6
11-15	0.	0.	57.6	41.5	0.	34.5	0.	5.8	0.	21.7	21.7	17.4
16-20	0.	0.	23.0	51.8	0.	20.7	0.	16.8	0.	21.7	21.7	17.4
21-25	0.	72.0	61.5	31.1	0.	17.3	13.9	46.3	0.	0.	34.8	8.7
26-END	0.	72.0	77.4	15.5	36.0	17.3	17.4	0.	4.3	0.	34.8	8.7

YEAR : 1963												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	0.	71.3	72.4	20.7	15.5	8.7	22.6	13.0	0.	0.	26.1
6-10	0.	0.	53.9	76.4	34.5	27.6	29.5	0.	5.2	0.	0.	20.9
11-15	0.	0.	57.6	59.6	20.7	43.2	55.0	33.3	0.	0.	0.	13.9
16-20	0.	0.	11.5	51.8	10.4	43.2	55.0	21.1	0.	0.	0.	0.
21-25	0.	72.0	62.8	39.9	0.	22.5	46.3	36.2	0.	0.	3.5	7.0
26-END	0.	72.0	62.3	31.1	8.6	3.6	27.0	13.0	0.	0.	8.7	8.7

YEAR : 1964												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	0.	67.4	72.4	27.6	43.2	0.	0.	13.0	3.5	0.	0.
6-10	0.	0.	32.9	72.4	13.8	43.2	0.	0.	13.0	8.7	0.	26.1
11-15	0.	0.	69.5	41.5	0.	43.2	0.	29.0	5.2	21.7	0.	17.4
16-20	0.	0.	77.4	23.3	0.	43.2	0.	13.0	0.	21.7	0.	17.4
21-25	0.	72.0	77.4	0.	0.	43.2	0.	42.0	0.	17.4	0.	8.7
26-END	0.	72.0	48.6	64.3	7.2	17.3	0.	32.3	0.	0.	0.	8.7

YEAR : 1965												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	0.	67.4	69.5	6.9	25.9	34.8	33.3	0.	0.	13.0	24.3
6-10	0.	0.	13.5	72.4	15.5	8.6	34.8	23.7	0.	0.	13.0	17.4
11-15	0.	0.	65.5	13.0	25.9	8.6	0.	31.9	0.	0.	16.5	3.5
16-20	0.	0.	77.4	13.0	34.5	13.8	15.6	8.7	0.	17.4	21.7	0.
21-25	0.	72.0	70.8	10.4	34.5	34.5	23.2	14.5	0.	18.2	34.8	0.
26-END	0.	48.0	32.4	0.	31.7	41.5	46.3	4.3	0.	13.0	29.5	0.

YEAR : 1966												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	0.	67.4	71.4	8.6	34.5	13.9	42.0	3.5	13.0	0.	15.6
6-10	0.	0.	9.9	65.9	3.5	0.	0.	11.9	8.7	13.0	0.	0.
11-15	0.	0.	67.5	51.8	0.	0.	0.	21.7	21.7	13.0	13.0	0.
16-20	0.	0.	56.0	62.2	0.	17.3	0.	4.3	16.5	0.	21.7	0.
21-25	0.	72.0	64.2	39.9	13.8	43.2	18.5	4.3	13.0	0.	34.8	1.7
26-END	0.	24.0	16.2	0.	30.2	43.2	42.2	1.4	13.0	0.	27.8	8.7

YEAR : 1967												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	0.	69.3	76.4	0.	22.5	0.	33.3	0.	21.7	0.	20.9
6-10	0.	0.	77.3	54.4	0.	43.2	10.4	4.3	0.	21.7	0.	19.1
11-15	0.	0.	69.5	51.8	3.5	43.2	26.1	4.3	0.	17.4	17.4	17.4
16-20	0.	0.	48.4	25.9	8.6	43.2	26.1	4.3	0.	0.	21.7	17.4
21-25	0.	72.0	70.8	10.4	0.	34.5	7.0	4.3	0.	0.	34.8	8.7
26-END	0.	0.	70.8	0.	5.8	0.	9.7	0.7	0.	0.	34.8	8.7

YEAR : 1968												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	0.	71.3	72.4	0.	0.	34.8	18.5	4.3	0.	7.8	26.1
6-10	0.	0.	55.9	26.4	0.	0.	34.8	46.3	4.3	0.	13.0	20.9
11-15	0.	0.	67.5	33.7	34.5	0.	33.0	37.7	3.5	0.	13.0	13.9
16-20	0.	0.	75.4	25.9	25.9	25.9	0.	20.3	0.	0.	13.0	0.
21-25	0.	72.0	77.4	38.9	0.	36.3	0.	9.6	0.	0.	24.3	7.0
26-END	0.	72.0	67.8	15.5	0.	43.2	0.	13.0	0.	0.	34.8	8.7

Table 35

5-DAY IRRIGATION WATER DEMAND IN SOUTH PELUBANG AREA
IN 2000 (2/3)Unit: m³/s

YEAR : 1969												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	0.	69.3	72.4	13.8	25.9	0.	42.9	0.	0.	0.	0.
6-10	0.	0.	44.4	72.4	8.6	25.9	0.	38.8	0.	0.	0.	13.9
11-15	0.	0.	67.5	51.8	0.	20.7	33.0	37.7	0.	0.	0.	17.4
16-20	0.	0.	57.6	49.2	0.	0.	49.2	14.5	0.	0.	8.7	17.4
21-25	0.	72.0	72.1	38.9	3.5	13.8	46.3	8.7	0.	0.	17.4	8.7
26-END	0.	72.0	58.2	28.5	17.3	10.4	22.2	7.2	0.	0.	13.9	8.7

YEAR : 1970												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	0.	67.4	73.4	0.	17.3	0.	7.5	17.4	0.	0.	0.
6-10	0.	0.	32.9	77.4	8.6	3.5	0.	7.0	0.	0.	0.	0.
11-15	0.	0.	67.5	54.4	43.2	10.4	44.0	37.7	0.	0.	0.	10.4
16-20	0.	0.	67.5	31.1	22.5	25.9	43.4	8.7	0.	0.	0.	17.4
21-25	0.	72.0	76.0	0.	10.4	34.5	46.3	22.9	0.	0.	0.	8.7
26-END	0.	72.0	48.6	0.	2.9	13.8	17.4	14.5	0.	0.	0.	8.7

YEAR : 1971												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	0.	67.4	74.4	6.9	17.3	0.	42.0	4.3	13.0	0.	26.1
6-10	0.	0.	13.5	77.4	0.	43.2	0.	22.0	21.7	20.0	0.	26.1
11-15	0.	0.	65.5	51.8	0.	43.2	55.0	31.9	4.3	13.0	0.	17.4
16-20	0.	0.	77.4	59.6	17.3	34.5	37.7	8.7	0.	13.0	0.	10.4
21-25	0.	72.0	70.8	62.2	17.3	0.	41.4	1.7	0.	14.8	34.8	0.
26-END	0.	48.0	36.8	51.8	17.3	0.	21.7	0.	0.	14.5	34.8	8.7

YEAR : 1972												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	0.	55.9	73.4	0.	10.4	34.8	37.7	21.7	0.	3.5	0.
6-10	0.	0.	9.9	51.4	0.	0.	34.8	0.	21.7	13.0	0.	5.2
11-15	0.	0.	75.4	51.8	0.	34.5	55.0	11.6	21.7	21.7	0.	17.4
16-20	0.	0.	54.4	0.	0.	34.5	26.1	0.	4.3	21.7	0.	17.4
21-25	0.	72.0	70.8	31.1	0.	36.3	29.0	0.	0.	7.8	0.	8.7
26-END	0.	18.0	77.4	41.5	11.5	43.2	17.4	38.6	0.	4.3	0.	8.7

YEAR : 1973												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	0.	73.3	72.4	0.	13.8	0.	0.	0.	8.7	3.5	19.1
6-10	0.	0.	67.4	37.9	0.	0.	0.	0.	0.	1.7	8.7	10.4
11-15	0.	0.	67.5	31.1	0.	0.	11.0	23.2	0.	0.	21.7	0.
16-20	0.	0.	38.9	0.	3.5	34.5	55.0	17.4	0.	0.	21.7	0.
21-25	0.	72.0	72.1	0.	17.3	43.2	47.2	0.	0.	0.	33.0	0.
26-END	0.	72.0	77.4	0.	31.7	43.2	23.2	0.	1.7	0.	26.1	2.9

YEAR : 1974												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	0.	71.3	72.4	27.6	34.5	0.	16.8	0.	0.	13.0	26.1
6-10	0.	0.	55.9	76.4	0.	43.2	27.8	42.0	0.	0.	13.0	20.9
11-15	0.	0.	67.5	59.6	0.	43.2	43.4	33.3	0.	0.	13.0	17.4
16-20	0.	0.	75.4	51.8	0.	43.2	26.1	15.9	0.	1.7	20.0	17.4
21-25	0.	72.0	77.4	51.8	0.	17.3	29.0	3.5	0.	8.7	31.3	8.7
26-END	0.	72.0	67.8	51.8	0.	0.	15.4	0.	0.	12.3	26.1	8.7

YEAR : 1975												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	0.	69.3	72.4	0.	0.	34.8	0.	17.4	0.9	7.0	0.
6-10	0.	0.	40.4	72.4	0.	25.9	34.8	0.	17.4	4.3	13.9	7.0
11-15	0.	0.	57.6	20.7	0.	43.2	55.0	0.	10.4	18.2	21.7	5.2
16-20	0.	0.	19.8	5.2	0.	43.2	44.0	0.	0.	13.0	21.7	0.
21-25	0.	72.0	20.8	25.9	0.	29.4	29.0	18.5	0.	0.	34.8	0.
26-END	0.	72.0	53.8	5.2	0.	32.8	4.8	41.5	0.	0.	27.8	5.8

YEAR : 1976												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	0.	67.4	71.4	0.	43.2	13.9	37.7	7.0	0.	0.	5.2
6-10	0.	0.	21.4	77.4	0.	43.2	34.8	20.3	0.	0.	13.9	26.1
11-15	0.	0.	63.5	51.8	0.	43.2	55.0	31.9	0.	0.	17.4	17.4
16-20	0.	0.	57.6	20.7	0.	43.2	37.7	8.7	0.	0.	17.4	17.4
21-25	0.	72.0	70.8	0.	0.	43.2	40.5	8.7	0.	0.	0.	8.7
26-END	0.	54.0	32.4	0.	14.4	8.6	17.4	8.7	0.	0.	0.	8.7

Table 36

5-DAY IRRIGATION WATER DEMAND IN SOUTH PELUBANG AREA
IN 2000 (3/3)Unit: m³/s

YEAR : 1977												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	0.	67.4	77.4	0.	1.7	34.8	42.0	0.	11.3	0.	26.1
6-10	0.	0.	77.3	65.9	10.4	8.6	34.8	8.4	0.	5.2	0.	26.1
11-15	0.	0.	71.4	51.8	13.8	1.7	55.0	17.4	21.7	0.	0.	17.4
16-20	0.	0.	57.9	51.8	0.	0.	11.0	0.	21.7	0.	4.3	17.4
21-25	0.	72.0	70.8	57.0	13.8	0.	26.1	0.	21.7	0.	34.8	8.7
26-END	0.	24.0	76.3	64.8	8.6	43.2	21.7	0.	21.7	0.	34.8	8.7

YEAR : 1978												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	0.	67.4	77.4	43.2	36.3	7.0	0.	0.	21.7	0.	26.1
6-10	0.	0.	67.4	46.4	15.5	25.9	0.	0.	0.	8.7	0.	26.1
11-15	0.	0.	67.5	0.	5.2	0.	0.	17.4	0.	0.	0.	17.4
16-20	0.	0.	44.4	0.	0.	10.4	26.1	23.2	0.	0.	0.	17.4
21-25	0.	72.0	64.2	0.	0.	22.5	17.4	29.0	0.	0.	0.	8.7
26-END	0.	0.	77.4	13.0	28.8	43.2	11.6	4.8	0.	0.	34.8	8.7

YEAR : 1979												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	0.	73.3	72.4	0.	0.	34.8	12.7	3.5	0.	10.4	20.9
6-10	0.	0.	67.4	37.9	0.	0.	19.1	29.0	0.	17.4	0.	26.1
11-15	0.	0.	67.5	31.1	25.9	0.	31.9	10.1	0.	21.7	0.	17.4
16-20	0.	0.	38.2	0.	43.2	34.5	8.7	19.4	0.	21.7	0.	17.4
21-25	0.	72.0	72.1	0.	43.2	43.2	13.9	46.3	0.	21.7	0.	8.7
26-END	0.	72.0	77.4	0.	7.2	43.2	17.4	17.4	0.	18.8	0.	8.7

YEAR : 1980												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	0.	69.3	72.4	17.3	25.9	34.8	0.	0.	0.	0.	0.
6-10	0.	0.	40.4	5.0	43.2	10.4	34.8	0.	0.	0.	8.7	0.
11-15	0.	0.	57.6	5.2	0.	0.	55.0	0.	0.	0.	21.7	0.
16-20	0.	0.	57.6	0.	0.	0.	44.0	0.	0.	0.	21.7	0.
21-25	0.	72.0	68.1	0.	8.6	34.5	29.0	0.	0.	0.	29.5	8.7
26-END	0.	72.0	53.8	0.	43.2	43.2	4.8	0.	0.	0.	20.9	8.7

YEAR : 1981												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	0.	67.4	72.4	0.	25.9	34.8	0.	17.4	1.7	0.	26.1
6-10	0.	0.	32.9	72.4	0.	19.0	34.8	18.5	17.4	4.3	0.	26.1
11-15	0.	0.	69.5	41.5	0.	17.3	11.0	42.0	14.8	17.4	0.	17.4
16-20	0.	0.	77.4	33.7	34.5	17.3	0.	13.0	10.4	17.4	0.	17.4
21-25	0.	72.0	72.1	25.9	36.3	43.2	0.	44.6	0.	13.9	0.	8.7
26-END	0.	72.0	45.3	0.	25.9	43.2	0.	36.7	0.	0.	13.9	8.7

YEAR : 1982												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	0.	67.4	71.4	0.	0.	20.9	46.3	0.	2.6	0.	24.3
6-10	0.	0.	21.6	77.4	17.3	25.9	0.	29.0	0.	3.5	0.	17.4
11-15	0.	0.	71.4	51.8	43.2	36.3	0.	37.7	0.	0.	0.	17.4
16-20	0.	0.	77.4	20.7	34.5	43.2	0.	37.7	0.	0.	0.	10.4
21-25	0.	72.0	70.8	0.	13.8	43.2	0.	8.4	0.	0.	0.	0.
26-END	0.	48.0	32.4	0.	0.	43.2	0.	0.	0.	0.	20.9	8.7

YEAR : 1983												UNIT : M**3/SEC
PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1-5	0.	0.	67.4	69.5	0.	25.9	34.8	46.3	0.	0.	21.7	26.1
6-10	0.	0.	77.3	65.9	0.	25.9	27.8	16.2	0.	5.2	21.7	26.1
11-15	0.	0.	71.4	51.8	8.6	25.9	0.	22.6	0.	13.0	21.7	17.4
16-20	0.	0.	54.0	62.2	43.2	25.9	0.	0.	0.	13.0	34.8	8.7
21-25	0.	72.0	57.6	64.8	43.2	25.9	0.	0.	0.	13.0	34.8	8.7
26-END	0.	24.0	9.6	64.8	34.5	43.2	8.4	9.	0.	15.9	27.8	8.7

Table 37 MONTHLY IRRIGATION WATER DEMAND IN MADA AREA

Unit: 10⁶ m⁶/y

For the Year 1983

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1961	0.	192.2	188.5	155.3	83.3	170.3	189.4	173.4	117.7	0.	64.3	39.7	1374.2
1962	0.	167.9	251.6	178.7	78.8	178.2	92.8	93.3	37.6	98.2	26.3	49.4	1252.7
1963	0.	263.9	282.5	274.6	125.2	163.6	234.1	178.5	78.7	16.5	0.	14.0	1633.5
1964	0.	249.2	247.2	243.4	34.5	214.5	77.1	166.9	86.7	101.9	3.9	38.1	1463.5
1965	0.	263.6	273.3	185.9	120.1	102.6	144.8	167.7	31.0	43.1	18.7	17.2	1367.4
1966	0.	226.9	233.6	222.6	18.5	107.6	132.7	137.4	77.2	54.4	2.2	24.3	1237.5
1967	0.	199.8	228.1	178.9	12.3	141.3	34.5	151.4	44.8	51.5	11.5	42.8	1097.0
1968	0.	169.1	266.8	202.8	33.8	103.1	130.1	102.0	76.3	4.7	38.3	42.7	1170.0
1969	0.	241.8	263.0	250.2	55.9	69.6	144.9	222.6	92.3	42.2	0.	20.7	1403.1
1970	0.	219.6	245.0	267.6	29.1	115.5	127.3	125.9	54.9	0.	3.2	36.4	1224.5
1971	0.	262.4	190.3	257.4	63.5	36.5	157.2	161.7	84.7	33.7	4.7	36.6	1288.7
1972	0.	231.2	211.6	242.6	47.7	74.3	287.3	110.9	108.0	32.1	1.9	23.0	1370.6
1973	0.	167.9	270.2	176.0	21.0	87.5	195.0	105.6	15.7	19.2	19.6	17.0	1076.8
1974	0.	233.5	281.5	222.1	42.9	130.4	210.3	100.7	63.9	50.4	39.4	46.7	1441.8
1975	0.	238.1	236.3	205.6	46.1	121.2	221.4	99.0	125.3	80.7	51.0	18.8	1425.4
1976	0.	222.0	211.1	242.3	19.2	190.6	153.9	232.5	55.4	0.	0.	25.7	1352.9
1977	0.	231.7	253.1	271.3	103.6	108.5	193.5	142.9	59.3	25.1	37.3	50.6	1477.0
1978	0.	199.8	223.5	183.1	104.4	129.8	32.0	81.4	20.8	47.1	18.9	48.2	1089.1
1979	0.	167.9	323.4	152.2	112.9	84.3	220.5	126.6	57.4	120.2	7.0	30.7	1403.0
1980	0.	275.2	243.3	221.0	44.2	47.8	271.8	42.6	7.7	3.1	62.4	9.1	1228.6
1981	0.	219.6	237.4	164.6	93.6	163.8	184.0	242.3	108.0	109.6	6.9	48.6	1578.6
1982	0.	263.6	269.9	210.7	53.9	87.1	131.7	216.2	54.6	27.4	9.9	24.0	1331.2
1983	0.	231.7	225.5	268.7	100.2	25.1	130.1	130.8	9.2	27.9	104.1	49.7	1303.1
MEAN	0.	224.3	245.9	216.5	62.9	115.5	160.7	144.0	63.8	43.0	22.2	32.8	1331.7

For the Year 1990

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1961	0.	181.7	261.2	128.9	140.2	181.1	181.1	137.3	36.7	1.2	52.0	43.9	1365.5
1962	0.	200.8	326.5	159.4	83.2	186.6	84.7	111.8	3.0	29.9	61.4	52.1	1299.5
1963	0.	213.4	325.7	239.6	149.4	146.6	188.9	136.6	30.0	0.	27.3	40.8	1498.4
1964	0.	220.4	322.4	203.2	83.3	184.3	80.3	136.3	29.3	28.0	2.8	36.8	1327.3
1965	0.	182.3	292.8	138.6	170.4	135.6	173.7	120.2	18.1	24.0	54.1	33.2	1342.9
1966	0.	157.3	248.6	187.8	63.6	108.9	102.8	121.8	57.0	18.3	50.4	12.2	1129.0
1967	0.	135.1	334.1	121.6	31.6	138.1	86.4	96.2	50.0	22.1	51.4	49.9	1156.4
1968	0.	213.2	339.5	168.4	74.1	118.4	85.9	162.9	39.9	3.9	63.9	42.9	1313.0
1969	0.	189.0	312.3	212.6	82.6	121.5	135.9	162.8	8.9	19.6	19.5	33.7	1298.1
1970	0.	202.6	309.6	181.9	118.2	124.7	117.8	108.7	25.0	0.	12.6	26.5	1227.6
1971	0.	181.7	249.8	296.8	65.1	102.9	131.4	142.8	37.8	29.3	43.5	38.5	1319.6
1972	0.	168.9	317.4	202.5	88.8	153.8	202.9	106.2	57.7	25.2	7.5	28.0	1358.9
1973	0.	200.8	333.7	114.3	112.5	112.4	154.6	102.4	8.4	16.8	62.5	26.0	1244.2
1974	0.	213.4	330.3	227.8	23.1	148.2	156.7	127.5	37.6	17.2	65.4	48.8	1396.2
1975	0.	191.0	277.9	189.6	28.9	132.6	192.5	64.0	39.2	22.1	52.2	24.3	1214.3
1976	0.	203.2	301.1	176.1	27.4	182.8	162.0	156.6	13.5	1.5	43.3	47.4	1317.0
1977	0.	189.0	365.4	261.3	96.9	86.8	145.5	118.0	25.8	11.4	32.6	52.7	1405.5
1978	0.	187.3	342.6	167.9	90.7	126.0	35.8	92.3	9.6	25.9	42.5	52.7	1193.3
1979	0.	200.8	345.2	112.4	142.0	96.1	141.8	143.2	11.8	32.5	34.0	50.6	1310.4
1980	0.	225.8	318.2	198.0	130.4	88.8	186.9	43.9	0.	4.3	50.9	5.6	1150.9
1981	0.	202.6	314.9	166.0	107.4	160.7	131.0	174.6	31.5	34.3	41.2	52.7	1436.8
1982	0.	182.1	291.6	125.9	126.2	125.0	59.4	159.4	8.8	8.0	29.8	40.3	1154.4
1983	0.	198.5	303.3	292.9	102.9	147.7	129.3	95.9	9.5	28.4	70.7	52.7	1428.2
MEAN	0.	194.0	312.4	181.5	93.0	135.1	134.2	122.7	27.2	17.5	43.1	38.8	1299.4

For the Year 2000

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1961	0.	188.1	267.3	116.7	143.6	177.8	160.4	107.6	35.7	0.8	50.2	42.9	1311.0
1962	0.	208.5	324.7	160.5	79.8	175.2	77.3	95.4	2.9	28.6	57.3	50.8	1261.2
1963	0.	221.7	320.8	232.5	128.7	147.5	182.2	128.5	29.3	0.	5.3	33.5	1449.9
1964	0.	229.0	357.3	195.2	78.3	190.5	39.8	126.3	27.2	24.8	2.5	35.9	1302.9
1965	0.	189.2	300.6	135.8	174.0	119.9	137.6	120.2	16.4	23.1	49.6	27.0	1291.5
1966	0.	162.8	292.8	197.0	40.9	106.0	97.5	113.1	32.2	20.8	35.1	18.6	1076.6
1967	0.	161.6	364.4	130.9	18.8	144.0	75.2	90.0	12.5	21.4	49.6	46.7	1114.3
1968	0.	221.3	346.8	143.5	79.7	119.4	85.7	147.2	30.0	2.9	52.6	41.9	1270.9
1969	0.	196.6	295.9	217.1	73.1	119.2	128.5	158.6	8.3	18.8	9.9	32.9	1258.8
1970	0.	210.6	323.3	180.3	101.0	103.4	93.9	86.8	24.1	0.	10.8	25.8	1162.1
1971	0.	184.5	258.5	295.4	53.8	106.7	120.8	118.7	44.0	28.3	41.7	36.3	1293.0
1972	0.	175.2	329.1	182.9	91.4	146.4	196.7	83.8	56.3	20.7	5.7	27.0	1317.1
1973	0.	208.3	343.3	103.1	83.3	114.2	148.0	68.4	7.5	12.4	58.3	25.4	1172.5
1974	0.	221.7	340.3	233.9	32.1	151.3	149.8	87.0	35.7	13.3	62.9	47.6	1377.8
1975	0.	197.1	285.0	171.3	25.9	128.0	182.6	48.8	37.6	19.9	42.3	20.3	1139.3
1976	0.	213.3	310.3	187.0	26.3	186.9	153.4	141.6	11.5	0.	28.6	43.2	1300.1
1977	0.	196.1	376.3	276.6	75.6	96.6	141.9	107.0	17.9	11.0	30.3	51.4	1400.7
1978	0.	194.8	353.1	151.0	78.7	116.3	51.8	87.2	9.4	24.9	41.4	51.4	1160.0
1979	0.	208.3	355.3	111.1	132.9	96.7	137.5	117.1	11.3	31.0	29.6	43.8	1274.9
1980	0.	232.3	310.6	91.6	129.6	89.1	173.2	32.3	0.	4.2	49.7	3.5	1118.3
1981	0.	210.6	326.6	170.3	108.8	166.1	122.3	158.7	70.3	29.9	34.9	51.4	1450.0
1982	0.	189.1	297.0	122.9	119.5	118.6	48.9	155.4	22.3	4.1	27.6	37.3	1143.0
1983	0.	206.1	310.0	302.3	101.6	149.0	102.1	94.6	5.3	22.5	68.9	51.4	1453.7
MEAN	0.	201.3	318.7	179.3	86.0	133.3	123.0	107.7	24.7	15.9	37.6	37.0	1264.3

Table 38 SUMMARY OF AVERAGE ANNUAL IRRIGATION
DIVERSION REQUIREMENT BY RIVER SYSTEM

Unit: 10⁶ m³/y

River System	1983	1990	2000
Kedah			
Main Stream			
MADA (Pelubang North)*	717	687	675
MADA (Pelubang South)*	615	613	589
Minor	0	2	8
Sub-total	1,332	1,302	1,272
Tributary	28	36	58
Total	1,360	1,338	1,330
Muda			
Main Stream			
Kedah state	58	92	93
P. Pinang state	197	171	171
Sub-total	255	263	264
Tributary	57	97	143
Total	312	360	407
Perai	105	92	92
Total for the Region	1,777	1,790	1,829

Remark; *: Including MADA fringe area

Table 39 CONSTRUCTION COST FOR IRRIGATION
DEVELOPMENT (1/4)

Unit: M\$10³

State	No. of Scheme	Name of Scheme	4MP	5MP	6MP	7MP
Kedah	1	Sidam Kanan	572*	0	0	0
	2	Sidam Kiri	741*	0	0	0
	4	Pekula	220*	0	0	0
	26	Kg. Luar	1,355*	0	0	0
	29	Ulu Sedim (Siputeh)	808*	0	0	0
	31	Pinang Tunggal	0	437	0	0
	32	Paya Rawa	1,498*	0	0	0
	33	Lemban Bata II	1,801**	0	0	0
	35	Sg. Mempelam	280**	0	0	0
	38	Kota II	8,900**	0	0	0
	39	Bakong/Lubok Boi	1,800*	0	0	0
	40	Tanjung Pari	600**	0	0	0
	41	Sg. Tiak	850**	0	0	0
	42	Titi Karangan	1,750**	0	0	0
	43	Kg. Padang Meha/ Pagar Museh	1,050**	0	0	0
	44	Tanjung Besar	1,200**	0	0	0
	45	Sg. Pering	3,850**	0	0	0
	46	Kurung Hitam	600**	0	0	0
	47	Carok Kejal	580**	0	0	0
	51	Kg. Pantai Perai/ Kg. Serukam	2,250**	0	0	0
	52	Sg. Teloi	800*	0	0	0
	53	Padang Cicak	750**	0	0	0
	54	Che Kedo/Putat	2,500*	0	0	0
	55	Sg. Gelong	2,100**	0	0	0
	56	Guan Ginu	500**	0	0	0
	57	Kg. Banggol Berangan	-	650**	0	0
	58	Kg. Tembak	-	1,000*	0	0
	59	Lubok Kiab	-	500**	0	0
	60	Kg. Sg. Limau/ Carok Bemban	-	650**	0	0
	61	Kg. Matang Durian	-	600**	0	0
	62	Kg. Selarong	-	700*	0	0
	63	Kg. Guar Cempedak/ Kuala Badak	-	1,100**	0	0
	65	Kg. Kemumbong	-	500**	0	0
	66	Pantai Cicak	-	350**	0	0
	68	Kg. Kubang Bemban	-	368	0	0
	69	Kg. Kerasak	-	230	0	0
	70	Kg. Nako	-	345	0	0
	71	Kg. Tok Tanai	-	322	0	0
	72	Kg. Pd. Pak Tam	-	414	0	0
	73	Kg. S. Sari	-	276	0	0

Remarks; *: Ref. D 1
**: Information from DID

Table 40 CONSTRUCTION COST FOR IRRIGATION
DEVELOPMENT (2/4)

Unit: M\$10³

State	No. of Scheme	Name of Scheme	4MP	5MP	6MP	7MP
Kedah	77	Kg. Menerong	-	644	0	0
	78	Kg. Cf Setul	-	230	0	0
	79	Kg. Langsung	-	460	0	0
	80	Kg. Lubok Ipoh	-	230	0	0
	81	Kg. Pdg. Halban	-	230	0	0
	82	Kg. Belantek	-	403	0	0
	83	Kg. Surau	-	299	0	0
	84	Kg. Paya	-	345	0	0
	85	Kg. Banggul	-	311	0	0
	86	Kg. T. Belit	-	633	0	0
	87	Kg. Namek	-	1,265	0	0
	88	Sg. Cajad	-	460	0	0
	89	Kg. Kaki Bukit	-	805	0	0
	90	Kg. Baubak	-	529	0	0
	91	Kg. Terabak	-	391	0	0
	92	Sg. Tebing Tinggi	-	322	0	0
	93	Kg. Lahar	-	1,334	0	0
	94	Kg. Pdg. Geh	-	725	0	0
	96	Kg. Paya Serdang	-	725	0	0
	97	Kg. Sira	-	311	0	0
	98	Sg. Kesai	-	-	230	0
	99	Kg. Lubok Merbau	-	-	-	230
	100	Kg. Nam Rok	-	-	230	0
	101	Bt. Batu Bertangga	-	-	242	0
	102	Kg. Pdg. Tok Bakong	-	-	-	345
	103	Belukar Luas	-	-	-	230
	104	Kg. Pakra	-	-	-	230
	105	Kg. Pdg. Hassan	-	-	230	0
	106	Kg. Seberang	-	-	575	0
	107	Sg. Kik	-	-	414	0
	108	Sg. Iboi	-	-	989	0
	109	Kg. Banggul Setia	-	-	-	552
	110	Kg. Raja	-	-	-	736
	111	Kg. Berdang	-	-	-	230
	112	Kg. Tengah	-	-	506	0
	113	Kg. Nai Teh	-	-	460	0
	114	Kg. Bt. Hijau	-	-	-	529
	115	Kubor	-	-	230	0
	120	Kg. Bt. Payong	-	-	-	299
	126	Kg. Pinag	-	-	-	621
	127	Kg. Tanjong	-	-	1,104	0
	128	Padang Terap	-	-	-	414
	129	Kg. Kubang Aring	-	-	230	0
	130	Kg. S. Buloh	-	-	230	0
	131	Sg. Mati	-	-	345	0
	132	Kg. Pdg. Panjang	-	-	-	414
	133	Kg. Jeragan	-	-	-	1,196
	134	Kg. Kubang Chenok	-	-	368	0

Table 41 CONSTRUCTION COST FOR IRRIGATION
DEVELOPMENT (3/4)

Unit: M\$10³

State	No. of Scheme	Name of Scheme	4MP	5MP	6MP	7MP
Kedah	139	Kg. Banggul Batu	-	-	357	0
	140	Kg. Landai	-	-	-	276
	141	Kg. Banggul Berangan	-	-	414	0
	142	Kg. S. Batang	-	-	506	0
	143	Kg. Betong	-	-	-	276
	144	Kg. Bt. Hangus	-	-	-	403
	145	Sg. Begia	-	-	-	276
	146	Kg. Charok Gnong	-	-	644	0
	147	Kg. Lubok Besar	-	-	805	0
	148	Kg. Tupai	-	-	-	690
	149	Kg. Melayu Paya Terendam	-	-	1,208	0
	150	Kg. Hujong Bandar Sek	-	-	-	828
	151	Bt. Selambau	-	-	-	414
	152	Kg. Charok	-	-	552	0
	153	Kg. Charok Kelian Salang	-	-	-	345
	154	Kg. Gua Tinggi	-	-	-	230
	155	Kg. Ketangga	-	-	-	230
	156	Kg. Bt. Ketil	-	-	-	345
	157	Kg. Lubok	-	-	-	667
	158	Charok Puteh	-	-	598	0
	159	Kg. Charok Bunting	-	-	-	230
	160	Kg. Dusun Gani	-	-	483	0
	161	Kg. Baharu	-	-	-	644
	162	Kg. Charok Kechil	-	-	1,748	0
	163	Kg. Assam Jawa	-	-	-	782
	164	Kg. Telok Teduri	-	-	-	322
	165	K. Charok Bemban	-	-	322	0
	166	Kg. Kumbang Panjang	-	-	-	460
	167	Kg. Tok Dollah	-	-	414	0
	168	Kg. Rambong	-	-	230	0
	169	Kg. Charok Pendiati	-	-	-	299
	170	Kg. Kangar	-	-	-	552
	171	Kg. Pak Bong	-	-	345	0
	172	Kg. Setang	-	-	-	437
	173	Kg. Ketumbar	-	-	805	0
	174	Kg. Besah	-	-	-	276
	175	Kg. Paya Besah	-	-	-	414
	176	Kg. Terona	-	-	552	0
	177	Kg. Ulu Sedim	-	-	529	0
	178	Kg. Ulu Badang	-	-	575	0
	179	Kg. Pdg. Belon	-	-	748	0
	180	Kg. Merbok Bagan Sena	-	-	782	0
	181	Kg. Turus Gading	-	-	-	345
	182	Sg. Kejai	-	-	-	644
	183	Kg. S. Bakong	-	-	-	460
	184	Kg. Jeneri	-	-	-	265
	185	Kg. Pdg. Kawan	-	-	-	276

Table 42 CONSTRUCTION COST FOR IRRIGATION DEVELOPMENT (4/4)

Unit: M\$10 ³						
State	No. of Scheme	Name of Scheme	4MP	5MP	6MP	7MP
Kedah	186	Kg. Masjid Baharu	-	-	748	0
	187	Kg. S. Pasir	-	-	-	253
	188	Kg. Peng Lebai Man	-	-	-	506
	189	Kg. Selarong	-	-	552	0
	190	Kg. Kebun Tembaku	-	-	-	495
	191	Ladang Ambika	-	-	345	0
	192	Kg. Keladi	-	-	-	1,150
	193	Ladang Lim Boon Chye	-	-	-	230
	194	Kg. Ayer Puteh	-	-	403	0
	195	Kg. Relau	-	-	-	299
P. Pinang	4	Tasek Glugor	0	472	0	0
Total			37,355	19,566	21,048	20,345

Table 43 SUMMARY OF INVESTMENT COSTS

Unit: M\$10 ⁶				
	4MP	5MP	6MP	7MP
MADA	128.7	171.0	268.9	268.9
Minor Schemes				
Kedah	37.4	19.1	21.0	21.0
P. Pinang	0	0.5	0	0
Sub-total	37.4	19.6	21.0	21.0
Total	166.1	190.6	289.9	289.9

Remark; at 1983 constant price

FIGURES

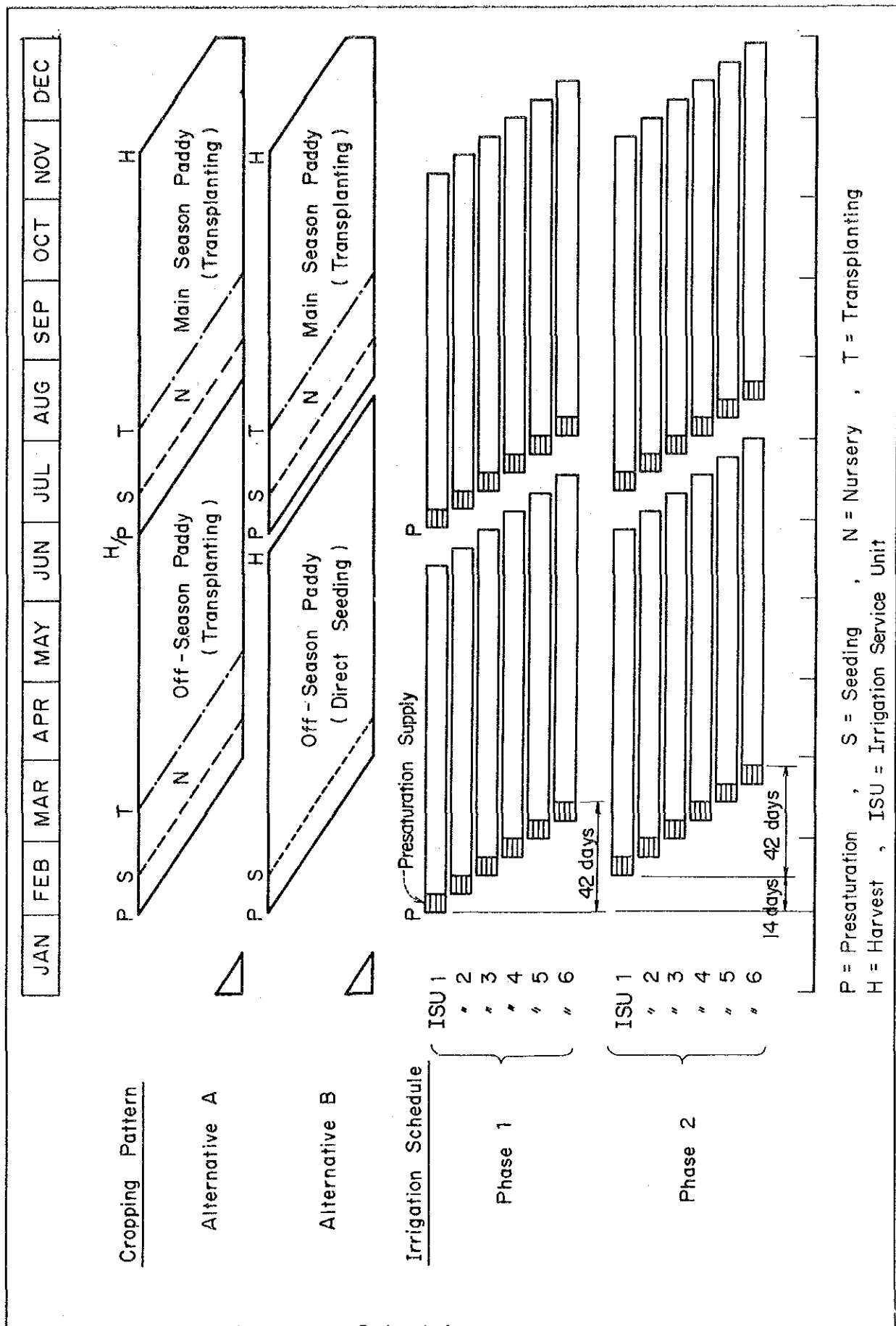
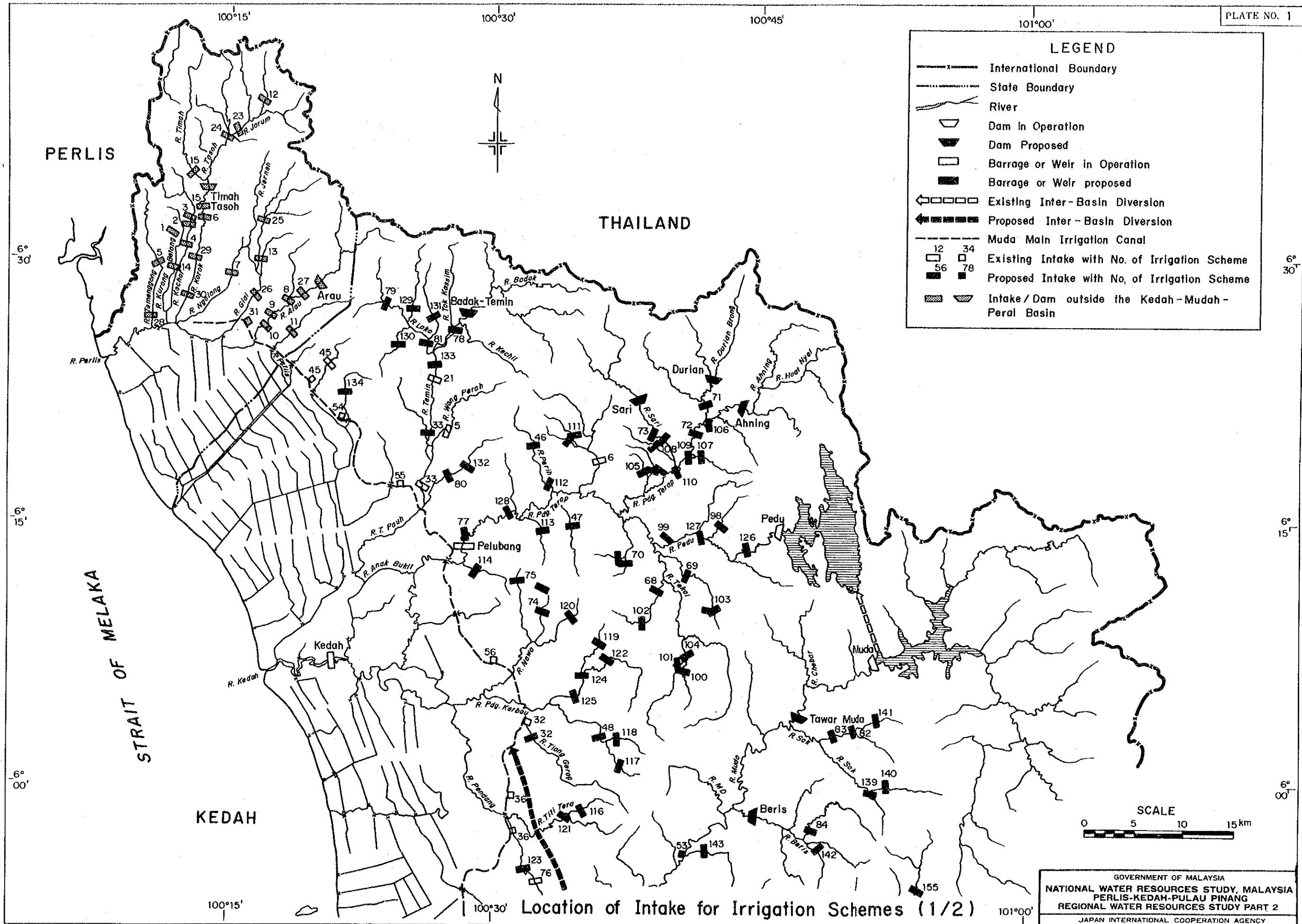


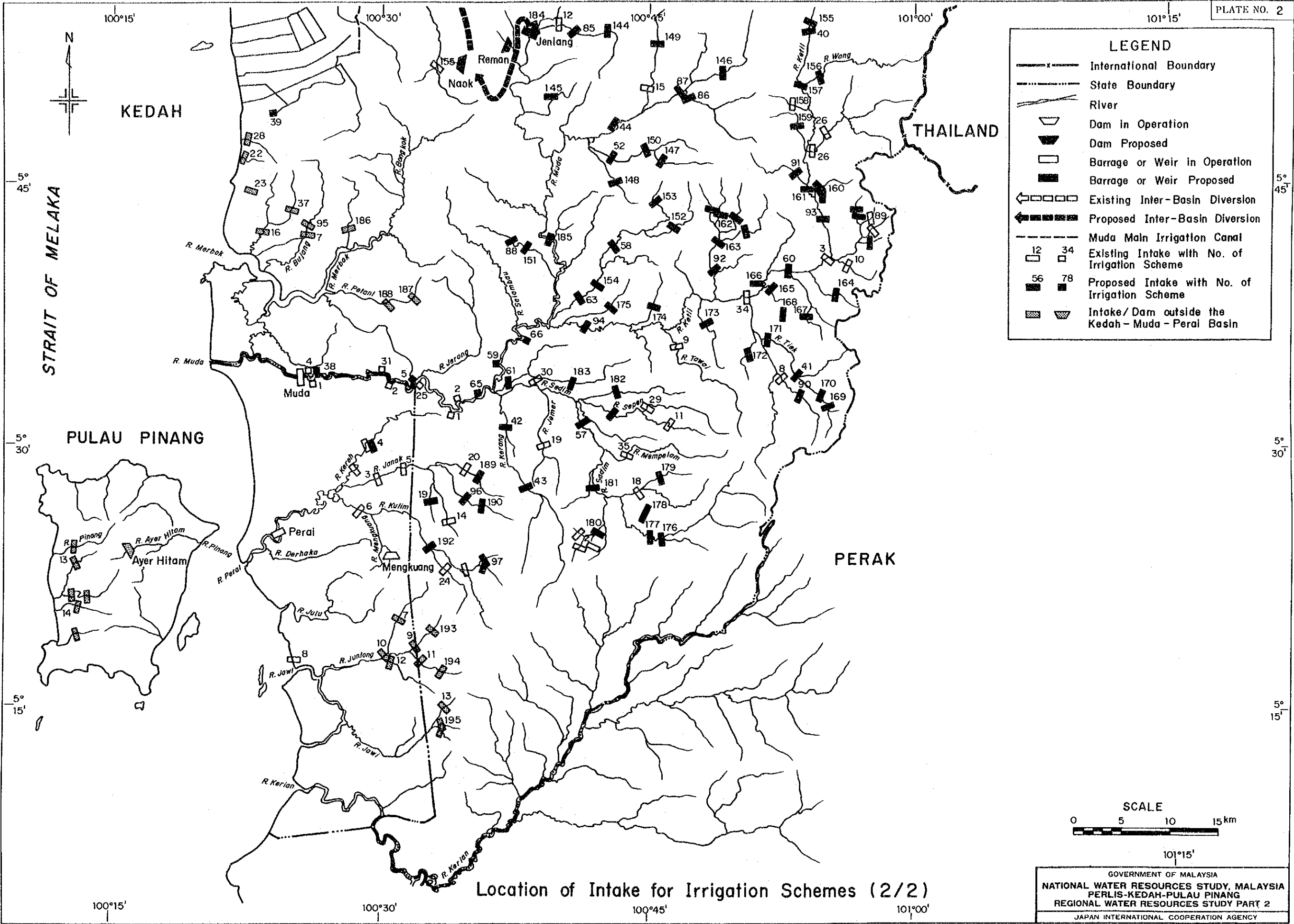
Fig.1 Proposed Cropping Schedule and Irrigation Schedule

PLATES



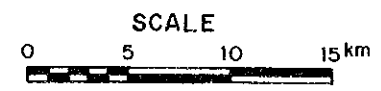
Location of Intake for Irrigation Schemes (1/2)

GOVERNMENT OF MALAYSIA
 NATIONAL WATER RESOURCES STUDY, MALAYSIA
 PERLIS-KEDAH-PULAU PINANG
 REGIONAL WATER RESOURCES STUDY PART 2
 JAPAN INTERNATIONAL COOPERATION AGENCY



LEGEND

- x— International Boundary
- - - State Boundary
- ~ River
- ▭ Dam In Operation
- ▭ Dam Proposed
- ▭ Barrage or Weir In Operation
- ▭ Barrage or Weir Proposed
- ← Existing Inter-Basin Diversion
- ← Proposed Inter-Basin Diversion
- Muda Main Irrigation Canal
- ▭ Existing Intake with No. of Irrigation Scheme
- ▭ Proposed Intake with No. of Irrigation Scheme
- ▭ Intake/Dam outside the Kedah - Muda - Perai Basin



Location of Intake for Irrigation Schemes (2/2)

GOVERNMENT OF MALAYSIA
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 JAPAN INTERNATIONAL COOPERATION AGENCY

