ANNEX

G. METEOROLÒGY AND HYDROLOGY

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G. METEOROLOGY AND HYDROLOGY

1. Meteorology

1-1 Meteorological Stations

Meteorological Stations are not located in the Project Area, and thus, surrounding stations located in Port Said, Ismailia, Mansura and Zagazig were applied to collect the data of general climate in the Project Area (See Fig.G-1-1). The variety of meteorological data collected are listed below:

Temperature - Monthly mean, minimum, maximum

Rainfall - Monthly

Relative humidity - Monthly mean, maximum, minimum

Sun shine hours - Monthly

Wind speed & direction- Monthly

Evaporation - Mean daily

Period: 1969 to 1978

1-2 Observation in the Project Area

To replenish and check the existing data, automatic recording instruments, long term rain gage, and long term thermo-hydro graph were installed in the area during the field survey.

The observation periods for each meteorological item in the project area are shown below:

Temperature 4/27 to 5/20, 6/1 to 7/6, 7/16 to 8/15, 11/4 to 12/4

R. Humidity 4/27 to 5/20, 6/1 to 7/6, 7/16 to 8/15, 11/4 to 12/4

Rainfall 4/27 to 12/4

In the area, there was no rainfall to be experienced during the study Periods. The monthly mean temperature in the area changed more gradually than in the surrounding areas, and the maximum and minimum values were 32.09C in July and 25.4°C in November respectively.

The monthly mean relative humidity changed in the range of 71 percent to 73 percent, which is very small.

1-3 Description of Climate

a) Temperature

The annual mean temperature around the Project Area is moderate at between 20°C and 22°C.

The seasonal trend in temperature are shown in Fig. G-1-2 for each station. A somewhat earlier peak temperature in summer is indicated for Zagazig and Ismailia more than for Port Said. This would be expected when comparing the inland and coastal stations. The graph for Port Said shows a relatively slow rise in spring temperatures being followed by a somewhat faster fall in autumn temperatures. Throughout the year the daily minimum average temperatures are lower and the daily maximum average temperatures are higher in the inland area when compared with the coastal area. (See Fig. G-1-3)

The record of maximum and minimum absolute temperatures in the three stations of Zagazig, Ismailia and Port Said, are as follows;

	Zagazig (1931 - 1975)	Ismailia (1946 - 1969)	Port Said (1942 - 1975)
Maximum	46.8°C	46.0°C	45.0°C
and the Apple States	3/June/1933	13/June/1965	25/May/1970
Minimum	-3.0°C	0.2°C	2,2°C
en de la companya de La companya de la co	7/Feb./1950	23/Jan./1967	6/Feb./1950

b) Rainfall

The seasonal rainfall pattern within the Project area is shown in Fig.G-1-4. Rainfall occurs in the winter season and December and January have the highest rainfall levels in all of the stations. On the other hand, in the summer season, from May to September, there is no rainfall recorded at any of the stations. Port Said has an annual rainfall of 73 mm compared with Damietta's 107 mm. For the other stations there is a decline in rainfall as one moves southward.

The isohyets are as shown in Fig.G-1-5.

Furthermore, the maximum daily rainfall and number of days of occurrence exceeding 1.0 mm and 10.0 mm at the three stations have been observed as follows:

	Zagazig	Ismailia	Port Said
ing dia manggarang panggarang panggarang panggarang panggarang panggarang panggarang panggarang panggarang pan Panggarang panggarang panggarang panggarang panggarang panggarang panggarang panggarang panggarang panggarang	(1926 - 1968)	(1964 - 1968)	(1941 - 1975)
Maximum	24.0 mm	23.0 mm	47.7 mm
	5/Nov./1932	16/Nov./1964	5/Dec./1961
1.0 mm	8,3 days	8.0 days	14.7 days
10.0 mm			1.5 days

As for the Project Area, the annual and monthly rainfall levels are extremely variable from year to year and insufficient in amount for crop cultivation. Therefore, cultivation in the Project area will depend entirely on the supply of irrigation water.

c) Relative humidity

The seasonal trends in relative humidity between coastal from the inland areas are clearly different as shown in Fig.G-1-6.

The coastal area has quite a small variation of 5 percent at Port Said station.

From April to June, the inland area has its driest months of the year, and the fluctuation of seasonal trends is more than in the coastal area.

These trends may reflect the origin of the air masses over the region.

The low spring values appear to be caused by dry winds associated with Khamasine depressions.

The daily pattern of relative humidity shows much difference between the nighttime and daytime figures. A value of 55 percent is observed in the daytime and 90 percent in the nighttime.

d) Evaporation

The mean annual evaporation (Piche) observed at each station is shown in Fig.G-1-7 and increases when moving in a inland direction except

for Port Said.

The annual mean evaporation at Port Said is observed at 6.7 mm per day which is 2,450 mm per year, and that at Zagazig is observed at 4.1 mm per day, which is 1,497 mm per year.

The annual evaporation trends are similar to the annual temperature trends. The evaporation value is affected by temperature and wind factor. Therefore, the high reading for Port Said may be explainable in part by the higher wind speeds and the reading for Zagazig may also be explainable by the lower wind speeds observed there.

e) Sunshine Hours

The values for possible sunshine are fairly uniform throughout lower Egypt and the seasonal trends are fairly similar as shown in Fig.G-1-8.

The annual average sunshine hours are estimated at 9.4 hours per day which can be converted to 3,430 hours per year. The value for possible sunshine is 78 percent and varies from a low of 67 percent in December to a high of 88 percent in August.

f) Wind

As shown in Fig.G-1-9 there is a general decrease of the mean annual wind speeds moving inland.

The measurement for Port Said is comparatively higher than the other stations. This may be because the measuring station is located on the shore. On the other hand, the measurement for Zagazig is unexpectedly low.

The seasonal trends are shown in Fig.G-1-9. There is a small peak in the spring season which is possibly associated with the Khamasine depressions.

Annual mean percentage frequencies of wind direction at Port Said, Ismailia, Mansura and Zagazig are shown in Fig.G-1-10.

The coastal station at Port Said trends to show a Northern frequency. Observations of the inland stations at Zagazig, Ismailia and Mansura, show that the most important directions are north and northeast.

1-4 Characteristics of Three Stations

As the results of data analysis, meteorological characteristic of the three stations can be described as follows;

Port Said

Port Said faces the Mediterraneam Sea and has small fluctuations of the mean monthly temperature as compared with inland areas. The annual relative humidity is 72 percent which is relatively high. Wind speeds are higher than at other stations.

--- Coastal climate

Ismailia

The monthly mean temperature fluctuates from a high of 29.5°C in August to a low of 14.2°C in January. Furthermore, the relative humidity varies from 52 percent in December to 72 percent in May. Generally, inland climate factors show a large fluctuations in values.

--- Arid inland climate

Zagazig

Zagazig is situated in the Nile delta. Therefore, its climate belongs to the semi-torrid zone. The most important factor is the wind speed which is the lowest value.

--- Arid inland climate
 (semi-torrid)

1-5 Adoption of Data for the Project

The Project Area is located at the northeastern part of the Nile Delta and is about 20 km from the Mediterranean Sea.

As the result of field observations, monthly mean, maximum and minimum temperature is the same as the values of Port Said and Mansura stations. From this observation it was found that the monthly mean temperature and relative humidity in the area were similar to the Port Said records. Therefore, the climate data recorded at Port Said Station were adopted for planning climate data in the Project Area.

Project Area ' Humidity in the Relative and M. Temperature Table G-1-1

Max. Min. Mean 28.0 29.9 30.8 17.8 21.8 22.0 22.9 25.9 26.4	32.0 31.9 23.1 23.9 27.6 27.9	25		Mean
Min. Mean Max.	3.1 23.9 7.6 27.9			
	.6 27.9	15	5.7 14.5	
Max. 93 92		0 <u>7</u>	20.6 19.1	
	5	95	96	
Min. 46 53 51 5	ъ Б	47	51	
Mean	72_	だ	74	

(Monthly Station (Said بر Data

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, con	200	25.4	15.7	20.6	95	47	71	:: **** :: ****		Nov.	20.9	8.4	72	6.3	77	4	
į	3									o ct	24.2	3.6	69	7.6	82	4.1	
9 0	o G D C								1978	Sept.	_26.2	0	70	8.1	87	რ თ	
,	Aug.	31.9	23.9	27.9	91	23	72_		1968	Aug.	27.4	0.0	73	7.7	88	ო თ	
7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	V TO C	32.0	23.1	27.6	91	51	71			July	26.7	0.0	74	7.9	98	٠ 4.	
i	omie	30.8	22.0	26.4	91	51	71		Station (Monthly Mean)	June	24.9	0.0	72	7.7	98	4.6	
Í	Мау	29.9	21.8	25.9	92	23	73	jedite Mari	n (Mon	Мау	22.2	0.5	71	7.1	80	5.0	
) } }	Apr.	28.0	7.8	6.27	93	46	် ၂ ည		tatio	Apr.	18.8	7.3	72	9.9	71	5.6	
	Mar.					. 7 			Said S	Mar. A	16.4	10.0	69		ტ	0.9	
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	v I - 4 	(၁၀)			Relative Humidity						(၁ _၈)	(E)	(%)	Evaporation (pitch:	Possible Sunshine	Wind Speed (m/sec)	
		Temperature		ali Alife.	ive Hu				3. T.		Temperature (°C)	Rainfall (mm)	R. Humidity (%)	ration	ble Su	Speed	
		Tempe			Relat						Tempe	Rainf	R. Hu	Evapo.	Possi	Wind	
										G-6					1 1 4		

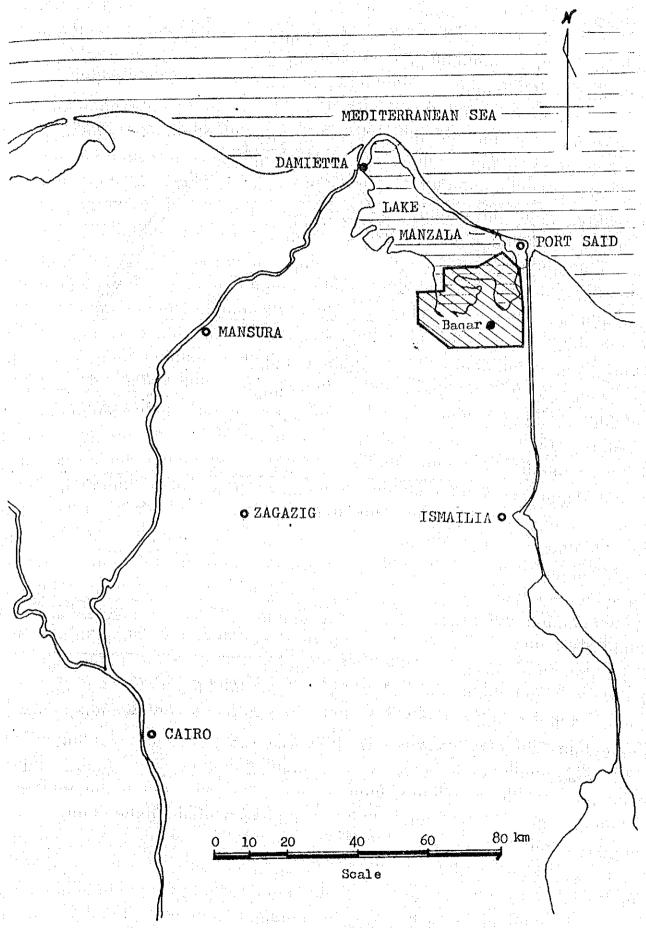
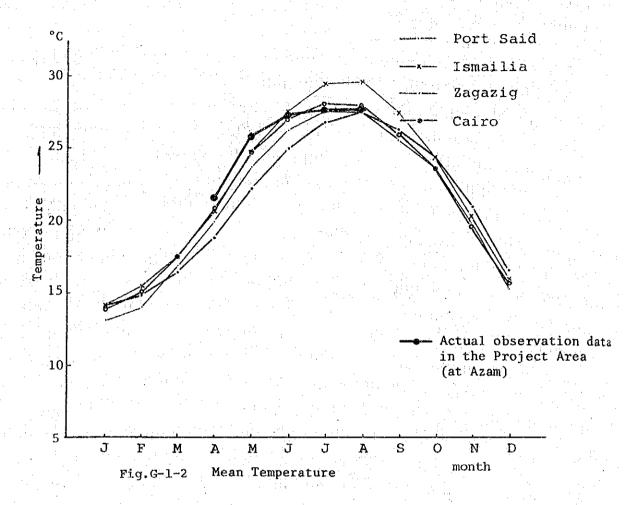


Fig.G-1-1 Location of Meteorological Stations



									- 1. j	Un	it: °C	
Station	J F	M	A	M	J -	J	A	- S	0.	N	D	Mean
Port Said	14.2 14.8	3 16.4	18.8	22.2	24.9	26.7	27.4	26.2	24.2	20.9	16.4	21.1
Ismailia	14.2 15.4	4 17.4	20.6	24.7	27.5	29.3	29.5	27.3	24.2	20.2	15.8	22.2
Zagazig	13.1 14.0	16.8	19.8	23.7	26.2	27.5	27.4	25.5	23.5	19.7	15.2	21.0
Cairo	13.7 14.9	17.3	20.9	24.8	27.0	28.1	27.9	25.8	23.5	19.3	15.3	21.5

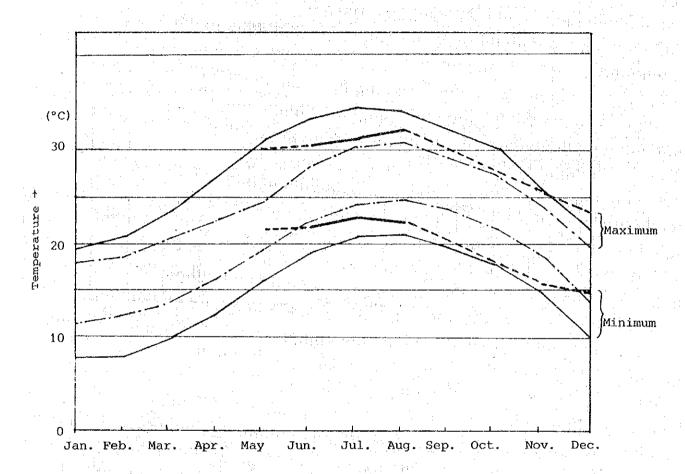
Source: Climatological Normals

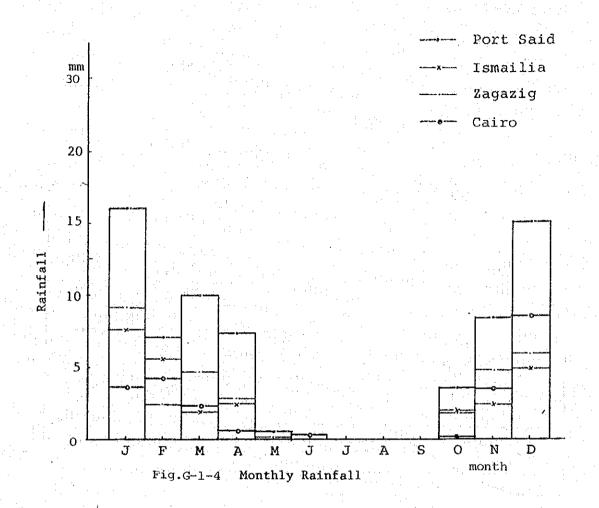
Fig.G-1-3 Daily Maximum, Minimum Temperatures

In the Project Area

Port Said

Mansula





			M	onthly	y Rainfall	[· · · · · · · · · · · · · · · · · · ·	Unit	: mm
Station	J	F M	í A	M	J J	A	s 0	N D
Port Said	16.0	7.1 10.	0 7.3	0.5	0.0 0.0	0.0	0.0 3.6	8.4 15.1
Ismailia	7.7	5.7 1.	9 2.3	0.0	0.0 0.0	0.0	0.0 2.0	2.4 4.9
Zagazig	9.1	2.4 4.	5 2.9	0.4	0.0 0.0	0.0	0.0 2.1	4.6 6.4
Cairo	3.7	4.2 2.	3 0.6	0.5	0.3 0.0) –	- 0.1	3.5 8.6

Source: Meteorological Authority Climatological Normals

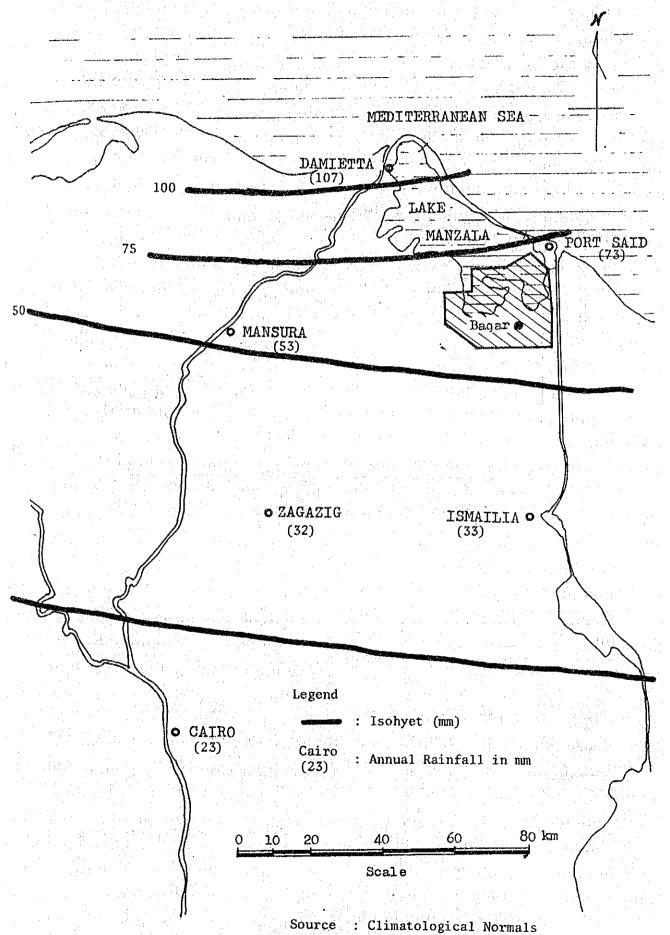
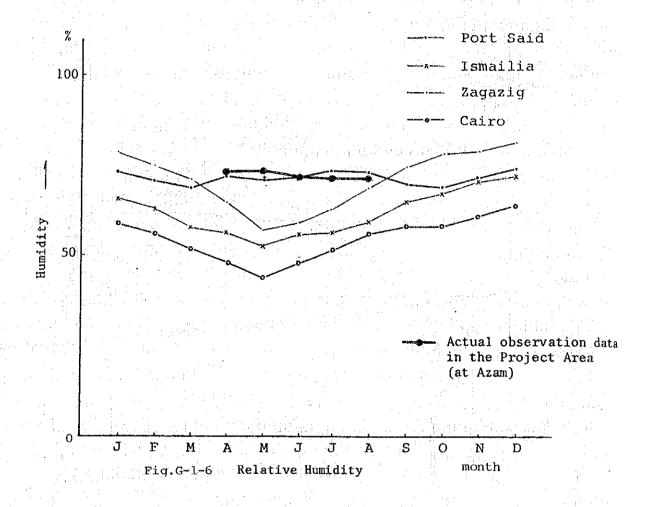


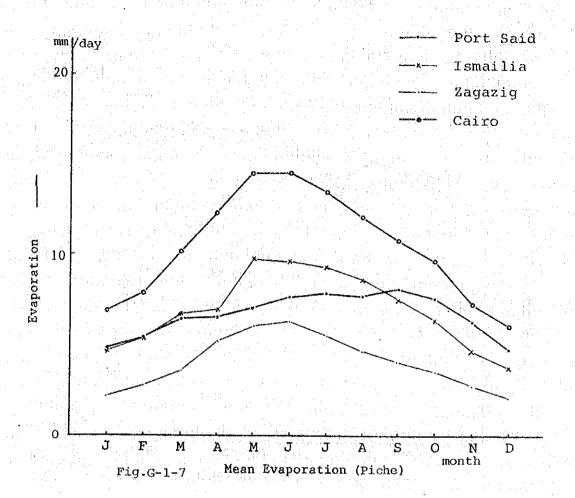
Fig.G-1-5 Total Annual Rainfall and Isohyet



Unit: %

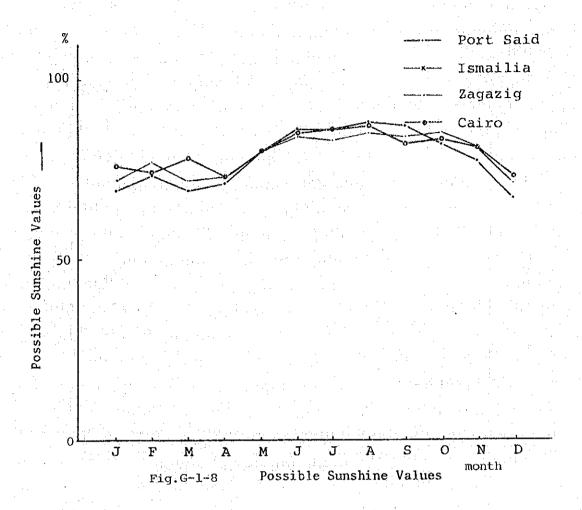
Station	J	F	М	A	М	J	J	A	S	О	N	D	Mean
Port Said	73	71	69	72	71	72	74	73	70	69	72	74	72
Ismailia	66	63	58	56	52	56	56	59	65	67	71	72	62
Zagazig	79	75	71	65	57	59	63	69	75	7.8	79	81	71
Cairo	59	56	52	48	44	48	52	56	58	58	61	64	55

Source: Climatological Normals



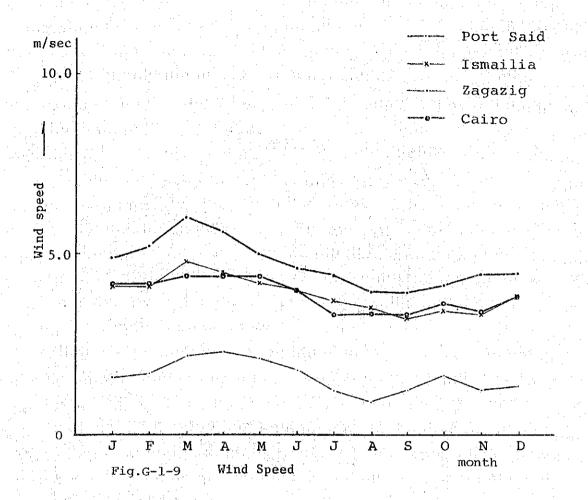
Unit: mm/day Station M J. 0 N Mean Port Said 4.9 5.4 6.5 6.6 7.1 7.7 7.9 7.7 6.3 7.6 Ismailia 6.8 7.0 9.8 9.3 8.6 7.5 6.4 2.2 2.8 3.6 5.3 6.1 6.3 5.6 4.7 4.1 Zagazig 3.6 2.8 2.1 4.1 7.0 7.9 10.2 12.4 14.6 14.6 13.4 12.1 10.8 9.7 7.3 6.1 10.5

Source: Climatological Normals



en e		The second s	Unit: %					
Station	J F M	A M J J	A S 0 N D					
Port Said	69 73 69	71 80 86 86	88 87 82 77 67					
Ismailia								
Zagazig	72 77 72	73 80 84 83	85 84 85 81 71					
Cairo	76 74 78	73 80 85 86	87 82 83 81 73					

^{*} No data available in Ismailia



					Unit: m	sec
Station J	F M	A M.	J J	A S	0 1	V D
Port Said 4.9	5.2 6.0	5.6 5.0	4.6 4.4	3.9 3.9	4.1 4.	4 4.4
Ismailia 4.1	4.1 4.8	4.5 4.2	4.0 3.7	3.5 3.2	3.4 3.	3 3.8
Zagazig 1.6	1.7 2.2	2.3 2.1	1.8 1.2	0.9 1.2	1.6 1.	2 1.3
Cairo 4.2	4.2 4.4	4.4 4.4	4.0 3.3	3.2 3.3	3.6 3.	4 3.8

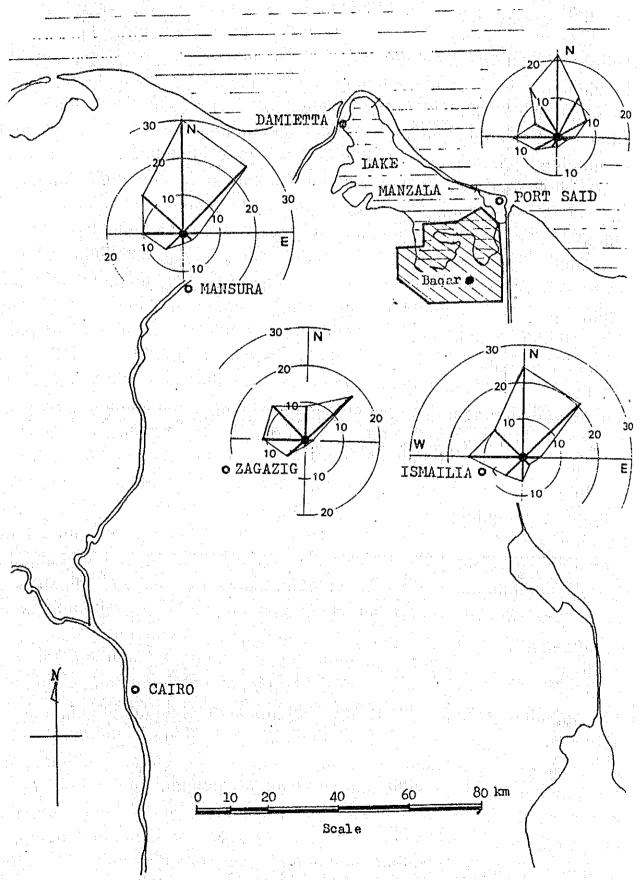


Fig.G-1-10 Annual Mean Percentage Frequency of Surface Wind

2. Hydrology

2-1 Water Level of Lake Manzala

Lake Manzala is a shallow delta-lake containing brackish water with an average depth of 0.80 meter.

The water level change of Lake Manzala is caused by wind speed and direction, Mediterranean tide and inflow from the three main drainage canals. During the field survey period, water level recorders were installed to observe the water level and to check the flow volume of the Hadous drain respectively. The data of the lake show that no daily change occurred. However, seasonal change amounting to 0.07 m appeared during the observation period from April to December 1983. The surface elevation of the lake was topograpically surveyed at 0.40 from the fringe of Matariya and 0.35 meter in the South Port Said Area. Therefore, the water level may be influenced by climate factors, seasonality and others. Published water level records are not available for Lake Manzala, however, there are sources of information as follows:

- The maximum elevation was surveyed at 0.6 meter and the minimum 0.3 meter near Port Said Town. (Source: Port Said Master Plan)
- The water level changes within +0.2 meter. (Source: Lake Manzala Study)
- The water level elevation of Lake Manzala was observed at 0.4 meter near Matariya and 0.35 meter in the South Port Said area. (Topographic Survey results)

The records of Mediterranean tide at Port Said are as followings.

Highest high water level	EL +0.55
Lowest low water level	-0.65
Average annual high W.L.	+04
Average annual low W.L.	+0.04

It can be said that although the data from the Port Said Master Plan are influenced by the Mediterranean tide, the water level of the area is not influenced. Therefore, the water level of the Project Area in the lake was decided to be 0.50 meter by appling the maximum value.

2-2 Drainage Canals

There are three main drainage canals of Hadous, Ramsis, and Bahr El Baqar in the Project Area through which drainage water from other areas flows into Lake Manzala as shown in Fig. G-2-1.

(1) Hadous drain

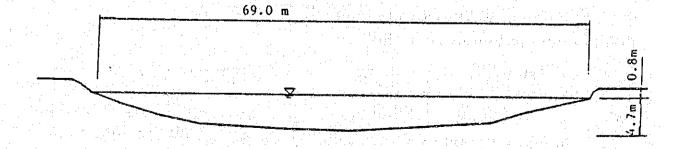
Hadous drain which is the largest drain in the eastern Nile Delta, and one of the major water sources of the El Salam Canal, commands a drainage area of about 2,300 km².

Water flow from the Hadous drain to Lake Manzala is about 3,300 million cubic meter per year and its monthly flow is shown in Table G-2-1. The variation in flows are attributed to changes in water supply quantities, crop rotation of the cultivation area, or irrigation and drainage efficiency.

Monthly variation in flow also takes place because of the different water requirements for the cultivation stage of the catchment area. In February, discharge from the water supply system is closed for maintenance of the canals.

Typical cross section, water velocity and flows at the outlet of the drain to Lake Manzala have been investigated druing the field survey as shown below.

Hadous Drain A= 210 m (30-June 1983) V= 0.25 m/sec $Q= 40 \text{ m}^3/\text{sec}$

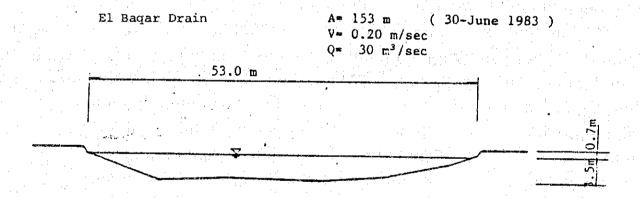


(2) Bahr El Bagar Drain

The Bahr El Baqar Drain is 97 km long and flows through the East Nile Delta to Lake Manzala.

The Bahr El Baqar has an average flow discharge of about 1,680 million cubic meter per year. Its monthly variation is slight except in February when the flow discharge is reduced to about 60 percent of the monthly average flow discharge.

Flow records for the Bahr El Baqar Drain have been taken by the Ministry of Irrigation from 1974 to 1978 and are shown in Table G-2-1. During the field survey, the typical cross section and velocity have been measured as shown below.



The water quality of Bahr El Baqar Drain is affected by Cairo sewage water. Salinity of its drainage water is slightly lower at about 700 ppm compared with that of other drains. Along the Bahr El Baqar Drain in the Project Area, farmers are using its water for irrigation.

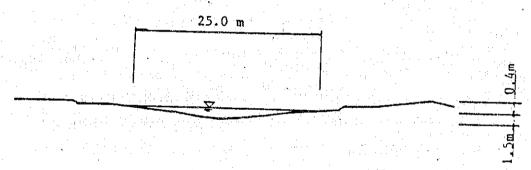
(3) Ramsis Drain

Ramsis drain was constructed as a watercourse to connect the Nile delta and Manzala Lake making it a branch of Saft drain. The flow discharge and velocity of the drain were not measured during the field survey because the direction of flow was not constant.

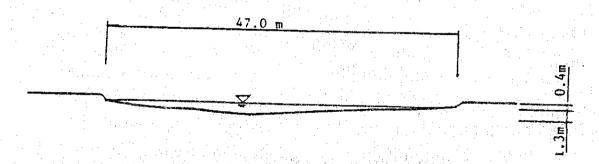
A typical cross section at its outlet to Lake Manzala has been measured as below.

Ramsis Drain

Before the Project Area



After the Project Area



the Records Flow Table G-2-1

1975 1976 1977 1978 137.826 127.162 151.632 130.076 124.432 119.500 92.222 106.700 120.776 127.176 126.976 142.976 129.156 125.264 116.304 154.380 165.664 124.616 130.076 149.099 142.080 120.080 102.726 145.650 132.020 118.976 111.996 164.176 148.676 135.876 173.476 164.176 158.952 150.530 167.104 158.880 153.352 138.486 157.300 162.750 157.880 134.580 145.176 155.880 172.372 135.538 148.535 130.975 1723.186 1557.84 1623.573 1765.718

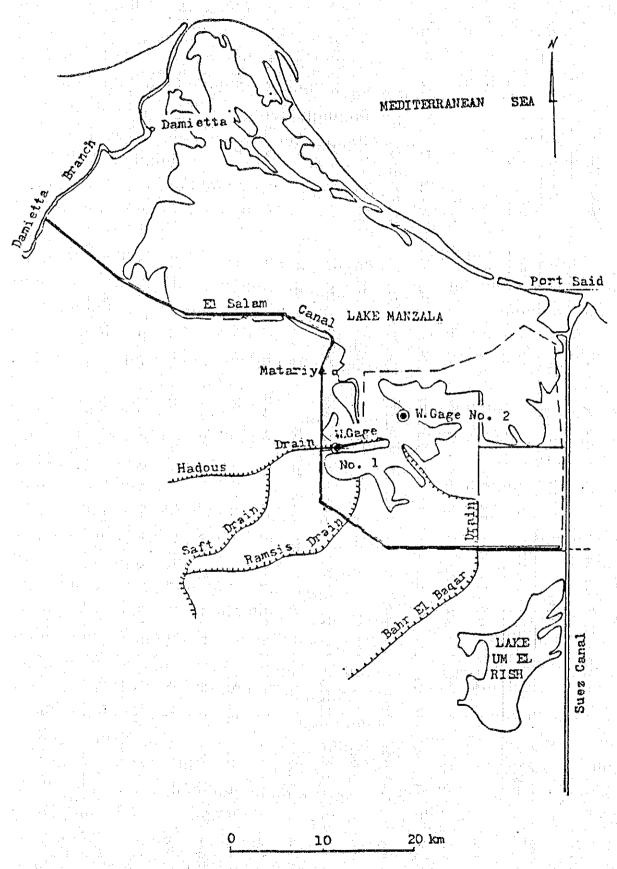


Fig.G-2-1 Canal and Drains in the Study Area

2-3 El Salam Canal

(1) Project Water Sources

The sources of water for the Project will be the Damietta Branch of the Nile River and drainage water from the Sirw and Hadous Drain.

The El Salam Canal will supply water for land reclamation projects located to the south of Lake Manzala and the northeast of the Sinai Desert. The total area to be irrigated by the canal is approximately 600 thousand feddans. The first phase is located on the west side of the Suez Canal and will irrigate 200 thousand feddans using a total water supply of 6.35 million cubic meter per day. The second phase is to expand the irrigation area to an additional 400 thousand feddans in Sinai. The water supply will then be increased to 18.85 million cubic meter per day.

The project area is included in the first phase of the El Salam Project. The design of the section of the El Salam Canal which is concerned with the Project are shown in Fig.G-2-2 for the longitutinal profile and Fig.G-2-3 for the cross section at a point 48.75 km in distance from Damietta Branch of the Nile River after mixing with the Hadous drainage water.

(2) Ratio of the mixture

- a) After mixing the water, salinity is not to exceed 817 parts per million.
- b) The maximum proportion of salinity of the mixture is not very harmful for agriculturral production in consideration of the prevailing temperature in Egypt, but due caution to provide good drainage is indispensable.
- c) The water of the "Lower SARW" will be used to the maximum extent as it is less saline compared with that of HADOUSS DRAIN. The water will be drawn from EL SARW at its crossing with El Salam Canal and the amount will be 0.5 million cubic meter per day at the beginning and reach 2 million cubic meter per day, as appropriate.

d) The proportion of the Nile waters to be used will be very high during the month of February because of the high salinity of the drain waters and in order to wash the soil.

Source: El Salam Canal Project M.O.I. 1979

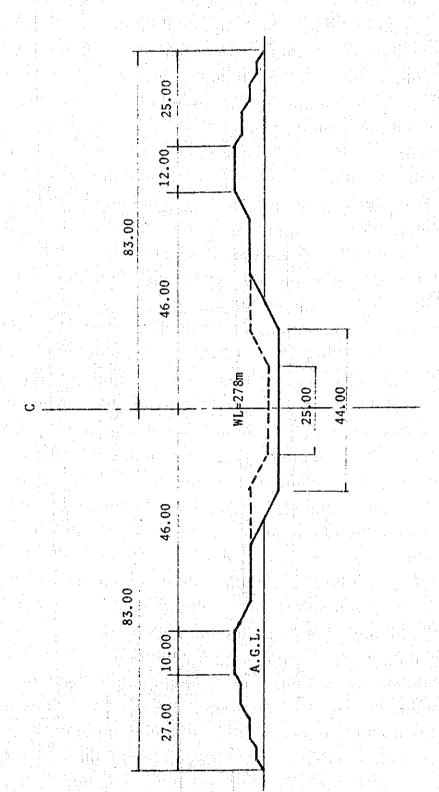


Fig.G-2-3 Cross Section of El Salam Canal at 48.75 Km in distance from the Dammiatta Outlet (after Mixing with Hadous Drainage Water)

salt content (c) HADOUSS Drain to keep the allowable Calculation of the amounts of water to be drawn (a) from "the lower SARW" and Nile (b) from Table G-2-2

					Q	<u>ლ</u>	7		7,	en.	Ŋ	ហ្ម	55	Ŋ	35	νί
		TER	Total		6,420	8,033	7,804	7,201	7,254	14,613	13,915	12,545	10,955	3,715	8,885	10,715
		MIXED WATER	Ratio		802	730	780	720	725	769	732	697	782	743	807	824
		Σ	Total		ω.	디	9	잌	0 1	6.1	91	18	14		11	ĘŢ
		ISS	Total		4,620	5,408	5,355	4,800	6,126	10,640	10,040	9,040	6,750	2,580	7,000	8,925
	(၁)	HADOUSS	Ratio		1,540	2,704	1,071	1,200	1,021	1,330	1,255	1,130	1,490	1,290	1,400	1,190
			Total		3.0	2.0	5.0	4.0	6.0	8.0	0 8	8.0	4.50	2.0	5.0	7.5
		3	Total		800	200	1,449	1,151	754	1,598	1,500	1,380	2,380	860	635	2.70
	(q)	EL S A R	Ratio		800	1,000	1,449	1,151	503	1,065	1,000	920	1,190	860	635	540
		ш	Total		1.0	0.5	7:0	1.0	1.5	1.5	1.5	1.5	2.0	1.0	1.0	0.5
		LUE	Total		1,000	2,125	1,000	1,250	625	2,375	2,375	2,125	1.875	375	1,250	1,250
	(a)	The N	Ratio		250	250	250	250	250	250	250	250	250	250	250	250
	111		Total	žξ	4.0	8.5	4.0	5.0	2.5	و ان	9.5	8.5	7.50	٦ ک	5.0	5.0
			Total Sanitv	mill m3/day	6,400	8,800	8,000	8,000	8,000	1,520	15,200	14,400	11,200	4,000	9,800	10,400
,			ents Dailv	month m	œ	-	10	10	10	19	б <u>Т</u>	18	14	ហ	: E	13
		Water	requirements	\	240	300	305	310	305	570	570	540	520	160	340	390
			Month		Jan.	Feb.	Mar.	Apr.	May	June	Jul	Aug.	Sep.	Oct.	Nov.	Dec.

Source: The Peace Canal Project, MOI

APPENDIX-G

G-1 MONTHLY CLIMATE DATA FOR PORT SAID STATION

Port Said Meteorological Station

Location: Lat. 31°16' Long. 32°17'

Ground Elevation: 1.0 m

Altitude: 6.1 m

Height of Wind

Recording Instrument: 19 m

Period: 1969 - 1978

Data: Maximum Mean Temperature

Minimum Mean Temperature

Monthly Rainfall

Maximum Relative Humidity

Minimum Relative Humidity

Wind Speed

Wind Direction

Sunshine Hours

Mean Daily Evaporation

URE URE MEAN TEMPERATURI MAXIMUM N

			i.											
	Mean	24.4.	25.5	25.2	25.5	25.5	25.1	25.4	25.4	24.0	24.2	25.0		
	Dec.	20.7	19.7	19.0	20.3	21.0	19.0	20.1	19.7	17.9	18.8	19.6		
	Nov.	24.1	23.2	23.6	24.5	22.9	24.0	24.3	25.8	23.8	26.5	24.3		
	Oct.	27.1	27.2	27:0	29.6	29.7	28.9	28.9	29.1	25.4	26.9	28.0		
	Sept.	29.6	30.8	29.9	31.7	30.7	30.6	31.0	30.6	29.0	28.1	30.2	i to	
rur e	Aug	29.6	30.9	31.8	32.3	31.3	31.3	31.1	30.9	30.6	28.3	30.8		
TEMPERATURE	July	29.4	30.9	30.1	30.5	32.1	31.3	31.0	30.9	30.3	29.5	30.6		
AXIMUM MEAN	June	27.6	28.9	29.5	27.4	29.9	28.9	29.2	27.8	28.3	27.7	28.5		
MAXIN	May	24.8	27.1	26.7	25.9	26.1	25.5	26.0	26.6	25.0	25.6	25.9	*	
	Apr.	21.1	24.1	22.0	23.9	22.5	23.2	23.7	24.5	22.7	22.6	23.0		
	Mar.	22.1	22.9	21.5	20.9	20.8	21.8	21.9	21.1	19.0	19.9	21.2		
	Feb.	19.6	20.5	19.6	19.2	21.1	10.0	19.3	1.8 8.5	19.3	18.9	19.6		
	Jan.	16.8	19.5	21.1	19.2	18.0	16.3	18.3	19.3	17.2	17.3	18.3		
	Year	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	Mean		
			. 11	:				-				Carrette Carrette		
					G	-31					· · · · ·			

MINIMUM MEAN TEMPERATURE

				÷											
	:: .:	Mean	18.2	17.2	16.6	17.8	17.8	17.4	17.5	17.0	18.2	18.7	17.6	: 1	
	(Unit:	Dec.	12.6	11.2	11.7	12.9	13.6	11.7	12.3	13.6	12.9	14.0	12:7		d Spanie
		Nov.	18.9	16.4	15.0	17.7	18.6	15.8	16.7	17.2	18.7	17.2	17.2	4.5	
		Oct.	21.7	18.6	18.0	22.1	24.0	21.3	20.7	20.6	21.0	22.4	21.1		
		Sept.	24.3	22.5	21.7	23.4	23.1	23.0	23.0	21.4	24.0	23.4	23.0		
rure		Aug.	23.6	23.2	23.2	24.2	23.4	23.7	23.7	22.3	23.7	23.7	23.5		
TEMPERATURE		July	23.3	22.4	22.0	22.8	23.7	23.2	23.4	22.2	24.3	24.6	23.2		
IMUM MEAN		June	23.1	20.7	20.8	21.1	21.6	21.1	21.4	20.6	22.1	22.8	21.5		
MINI		May	19.0	17.8	18.2	18.1	17.9	17.6	18.4	18.1	19.2	20.5	18.5		
		Apr.	15.0	15.7	13.7	16.0	14.6	15.4	15.6	15.0	15.1	16.7	15.3		
		Mar	14.2	13.4	12.4	12.7	12.1	14.6	13.4	12.4	13.2	13.9	13.2		
		Feb.	12.8	11.4	10.2	11.2	11.6	11.5	11.1	10.0	13.4	13.1	11.6		
		Jan.	10.0	12.6	12.4	11.2	9.5	10.1	10.4	10.0		11.5	10.9		
er in an eer		Year	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	Mean	· · · · · · · · · · · · · · · · · · ·	
							G-32								

	(www.	Total	56.0	56.3	106.6	111.3	30.0	83.6	62.8	34.3	74.7	65.6	68.1	
	(Unit	Deo	0.5	18.2	42.8	36.2	0.2	7.4	13.0	9.5	16.5	7.0	ST.	1
		Nov.	1.0	11.0	17.3	4.	2.3	1.7	2.7	1.2	0.0	33.0	8.4	
		Oct.	20.7	4.0	0.4	0.2	0.0	0.0	0.4	1.3	7.3	1.6	3.6	
		Sept.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	
		Aug.	0.0	0.0	0.0	0.0	0 0	0.0	0.0	0.0	0.0	0.0	0.0	
RAINFALE		July	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MONTHLY		June	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Trac	0	0.0	0.0	
	· · · · · · · · · · · · · · · · · · ·	May	2.0	0.0	0.4	0.5	0.0	0.0	0.0	0.2	٠. ص	0	0.5	
		Apr.	1.0	2.2	13 8	13.7	0.0	2.7	12.9	5.7	11.4	4.2	7.3	
		Mar.	15.3	7.6	2.6	29.9	10.0	5.5	6.2	е. Н	14.9	7.0	10.0	
		Feb.	1.0	0.6	2.2	14.4	0.0	15.4	19.9	14.8	1.2	4	7.1	
		Jan.	14.5	12.7	21.1	2.3	17.5	50.9	7.7	0.5	21.5	11.4	16.0	
		Vear	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	Mean	
							G-33							

		el.													
in the	(Unit: %)	Mean	8	8	96	92	8	8	69	96	93	8	93		+ + - 1).
	d d	Dec.	91	65	6	86	8 6	98	6	. 76	88	დ რ	95	.1.	
		Nov.	წ	96	96	66	66	06	06	97	8	84	92	:	
		Oct.	693	95	8.0	83	6 80	: 06	86	95	82	22	91		n mara
		Sept.	68	06	95	68	06	83	დ	94	98	87	8	The c	- 1 b _i
	IDITY	Aug.	ტ დ	92	91	87	9	92	96	95	84	95	15		
	TIVE HUM	July	06	88	95	9. 4.	06	86	91	86	95	91	92		
	MAXIMUM RELATIVE HUMIDITY	June	92	တ	95	91	82	86	06	26	96	88	91		
	MAXI	Мау	100	87	76	16	93	88	82	94	: E	83	91		
		Apr.	. 69.	92	95	80	8 8	97	92	96	97	84	93 83		
		Mar.	96	96	80	ტ ღ	87	06	92	97	86	06	94 7		
		Feb.	96	68	96	95	97	66	95	g 4	თ თ	93	95		
		Jan.	96	86	66	96	84	85	5	20.	6	100	96		
		Year	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	Mean		
										£ .	1				
						e	; - 34				: : 1/2		11 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4		

(Tr. + - %)		42	31	34	33	37	34	34	32	8. 4.	Ö.	34			
L	Dec	34	42	37	40	45	36	4.	31	0.40	E E	88			
er en transporter en de la companya	Nov.	47	4	4.	44	48	35	30	28	1.1 Φ	33	37		·	
	Odt.	54	32	38	34	38	27	44	31	တ္ထ	14	34			
	Sept.	47	45	45	40	49	23	45	27	43	35	<u>40</u>			
HUMIDITY	Aug.	წ	e e e	31	29	40	44	44	94	49	ဗို	43			11
RELATIVE HU	July	52	æ	48	43	44	46	37	24	ဓင္ထ	45	42			:.
INIMÜM REL	June	e e	29	24	50	23	38	88	47	36	25	31	i i		·
MIN	Ma <u>y</u>	54	14	31	16	31	27	20	38	35	. 8 	62			
	Apr.	31	14	43	23	22	20	32	21	20	16	24			·
	Mar.	58	9	16	27	30	38	16	56	25	18	24			
	Feb.	34	24	31	32	35	32	34	32	23	28	<u></u>			· .
	Jan	T	43	56	42	39	39		30	39	34	32			
	Year	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	Mean			
					. (3–3 5									

	٠.												
		t: %)	Dec.	м Н	23.7	19.6	23.2	20.7	7.5	3.6	0.3	0.1	4
		(Unit:	Nov.	0.7	17.6	21.2	29.8	24.9	ტ. ტ.	1.6	0.3	0.0	7
			oct.	7.0	16.2	23.5	34.3	23.0	2.3	0.3	0.0	0.0	4
19			Sept.	0.7	17.6	25.4	34.8	20.5	6.0	0.1	0.0	0.0	0 m
			Aug.	0.7	17.4	25.3	33.6	22.0	1.0	0.0	0.0	0.0	o
			July	0.4	13.7	21.4	33.0	28.8	2.6	0.1	0.0	0.0	4
			June	0.3	13.0	19.8	30.6	32.0	3.7	9.0	0.0	0.0	4 6 7 7 9 9 9 9 9 9 9 9 9 9
	SPEED		May	0.4	13.3	15.7	28.7	33.9	6.3	. 6	0.1	0.0	0
	WIND		Apr.	0.4	9	13.6	25.1	38.2	ი ი	2.9	0.3	0-0	
			Mar.	9.0	8.2	11.8	24.9	34.7	13.7	5.0	1.0	0.1	0 (6)
			Feb.	0.7	15.0	16.0	25.5	28.6	& &	4.4	0.0	0.1	10.
	·		Jan.	1.0	18.5	18.6	24.4	24.4	7.8	4.5	0.7	0.1	4
			Direction	Calm & Variable	1 - 3 (Knots)	4	7 - 10	16.	17 ± 21	22 - 27	28 - 33	More than 34 Knots	Mean (Knots)
								G-36	5				

														e de S	T : .		:	÷.,
	Dec.	2.7	5.5	8.6	8.5	6.3	4.1	4	9.9	14.4	18.9	10.6	4.8	9.	:	14 14 15 15 16 16 16 16 16 16 16 16 16 16 16 16 16		
(Unit:	Nov.	1.3	16.2	17.9	14.2	3.8	1.6	າ.ຕ	2.7	1.	8.7	10.8	6.4	თ თ				
	oct.	0.7	25.2	20.5	11.4	3.7	1.6	1.8	1.3	2.1	. ထ က	7.4	5.7	13.8				
	Sept.	1.4	35.7	11.2	2.9	8.0	O N	0.5	0.4	0.6		ω	0.0	27.5				
	Aug.	6.0	27.3	4.7	0.7	e 0	0.3	0.3	0.3	0.0	4.1	15.3	13.4	31.5				
	July	8.0	26.5	4.0	6.0	0.4	0.3	0.4	0.2	0.5	3.9	15.3	16.1	30.7				÷
	June	0.5	33.5	0.6	4.3	2.5	4.	₽. ₽	9.0	1.2	3.0	7.7	10.9	24.3				
DIRECTION	May	9.0	31.2	15.6	10.6	7.5	2.9	ក ហ	1.0	T	3.0	5.4	5.9	13.6				
C QNIM	Apr.	0.7	19.0	12.5	12.8	Q.	w 4	1.9	1.7	1.8	4.1	8.1	8.4	15.6				
	Mar.	1.0	11.0	6.6	11.5	9.7	ω 	2.9	3.3	ω	8	14.7	თ	10.3				
	Feb.	1 5	9.2	О	<u>ი</u>	8	4.2	2.9	4.1	9	14.0	14.0	7.6	8.5	· .	· ·		1
	Jan.	2.6	4. 3.	5.1	8.	8	9°	4.5	7.4	14.1	19.5	14.9	0.9	6.4				
															. :			
	Direction	calm & Variable	- 014°C	- 044	- 074	- 104	- 134	- 164	- 194	- 224	- 254	- 284	- 314	- 344				
	ď	Calm	345° -	015	045	075	105	135	165	195	225	255	285	315				
							G-37											

		. *			10.1	٠			• .						
hr.)	Dec.	6.0	7.0	ς. Υ	7.0	7.1	9.0	6.1	7.3	7.2	9	[6.7	208	309	67
(Unit:	Nov.	8.3	8	7.7	7.6	; ;	8.4	7.6	O :	φ. 9.	7.6	8.0	240	310	77
	oct.	8.0	7.0	9 2	9.2	10.1	و. ب	თ თ	8.4	o T	8.5	9.3	388	350	83
	Sept.	თ თ	11.0	10.8	10.5	10.8	10.2	10.5	10.4	10.2	10.3	10.5	315	363	87
	Aug.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11.7	11.6	11.8	11.5	11.7	11.3	11.6	11.0	11.3	11.5	357	403	& &
ro To	July	11.5	12.1	12.2	12.1	12.3	12.2	11.8	12.0	11.3	11.8	11.9	369	429	86
SUNSHINE HOURS	June	12.2	12.1	12.3	12.3	12.4	12.2	11.8	11.6	11.2	11.8	12.0	360	417	98
SUNS	May	8	10.8	4.4	10.1	12.0	11.8	11.5	10.5	10.4	11.0	0.01	338	420	80
	Apr.	9.1	o.	ა 4	8.2	10.2	8.4	. j	რ თ	8.6	6.7	6,0	276	397	71
	Mar.			8.0	7.5	6.1	8.1	9.1	8.4	8.0	8.2	8	257	373	69
	Feb.	0.8	0.0	8.0	8.6	8.4	7.5	7.6	7.0	9.7	ω 4.	8	227	311	73
	Jan.	5.7	7.1	7.6	7.8	7.6	ა. დ	o.	7.2	7.2	0.8	7.1	220	e 320	69
	Year	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	Mean	Monthly Mean	Possible Sunshine	Percent (%)
							G38								

EVAPORATION MEAN

veb/mm	Mean	ω. '9	5.7	5.3	5.4	4.4	4.4		φ 	ហ			
+ + : - :	Dec.	ω. Θ	4.6	4.7	4.7	ທີ່ຕ	4.0	۳. 4.	ъ. В	8	ω 	7-7	
	Nov.	7.5	ស	5.1	4.7	2.7	5.6	თ ო	3.4	5.1	6.4	4. 8.	
	Oct.	% 4.	ກ ຕ	0.9	5.6	3.1	4.4	4.0	თ ო	6.2	ц	5.2	
	Sept.	7.4	5.7	5.1	5.3	5.0	4.4	4.3	3.6	5.1	6.5	5.2	
NOI	Aug.	7.2	۳ و	5.4	5.2	5.0	4.4	4.4	ω 	4, Θ	5.8	2.2	
EVAPORAT	July	8.2	6.1	ۍ 8	5.4	4.9	4.3	4.3	ω •	€.	ი ი	ري 4.	
N DAILY	June	თ დ	6.1	5.9	7.0	4.7	5.0	4.4	3.2	5.6	ر ب	5.7	
MEA	May	 9	9.9	5.6	6.3	8.8	4.4	4.3	4.0	5.7	6.3	4.5	
	Apr.	6.7	6.1	5.0	7.8	5.0	4.5	1	4.1	6.1	0.0	5	
	Mar.	6.4	0.9	6.2	4.2	5.0	3.1	4.2	3.7	6.4	ທ ທ	6.9	
	Feb.	5.4	5.2	5.1	4.8	4.7	4.3	9. 8.	3.4	5.0	4.1	4.6	
	Jan.	3.8	4.5	4.0	4.1	ი ი	4.1	4.0	m m	4.2	3.7	0	
	Year	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	Mean	
				e de la companya de l		G~39			•				

G-2: CLIMATE DATA IN THE PROJECT AREA

(observation record)

April - August, 1983

Climate Data in the Project Area in 1983

	Clin	ate Data 11	n the Project	area in 190		
	30, Ju	ine	1, Ma	.	5, Ma	Y .
Time	Temperature (°C)	Humidity (%)	Temperature (°C)	Humidity (%)	Temperature (°C)	Humidity (%)
0	18.0	84	17.0	88	17.0	88
i. 1 .	17.5	88	17.5	90	16.8	92
· · · · · 2	16.6	91	17.0	90	16.2	94
· 3	16.0	92	17.0	92	15.8	94
4	16.0	92	15.9	89	15.1	93
5	16.0	92	15.8	92	14.7	94
6	15.7	87	16.0	88	14.0	97
: i · · · · · · · · · · · · · · · · · ·	17.6	80	18.6	78	14.4	94
8	20.1	71	21.0	58	17.0	84
9	24.2	43	23.4	40	20.4	67
10	25.6	34	25.3	34	22.0	56
11	26.1	38	26.1	32	23.1	54
12	25.8	45	27.6	32	24.0	55
13	27.3	30	28.6	36	25.2	42
14	27.6	27	29.3	30	25.4	44
15	27.6	40	29.0	29	26.0	40
16	27.4	46	26.7	41	25.5	52
17	26.0	42	25.5	47	24.0	62
18	24.0	60	24.1	⊧60	23.0	68
19	20.6	76	20.6	69	20.1	81
20	19.0	75	19.7	83	19.6	79
21	18.2	72	19.0	88	19.3	83
22	18.1	73	18.4	85	18.0	90
23	18.0	82	18.0	89	17.0	92

Climate data in the project area in 1983 (continued)

:	10, Ma	У	15, Ma	ι y	20, Ma	ıy
Time	Temperature (°C)	Humidity (%)	Temperature (°C)	Humidity (%)	Temperature (°C)	Humidity
0	19.0	86	19.4	92	18.7	90
1	18.9	89	19.2	92	18.7	91
2	19.0	86	19.2	92	18.8	92
3	19.1	84	19.0	92	18.6	93
4	19.1	84	18.1	90	18.0	94
5 · .	19.1	81	17.4	91	18.0	92
6	19.4	73	17.1	92	19.0	87
7	20.0	76	18.6	86	20.3	79
8	21.1	78	20.5	81	22.0	68
9	22.0	7.7	22.6	68	23.0	62
10	23.0	70	24.5	57	24.1	56
11	21.9	83	26.4	44	25.5	51
12	21.1	78	28.0	43	26.7	48
13	23.0	66	29.0	39	27.5	46
14	24.5	63	30.1	35	27.0	57
15	26.4	56	27.0	68	26.2	60
16	27.0	54	27.1	62	25.0	68
17	26.0	58	27.3	56	23.3	73
18	22.2	78	25.0	67	22.2	76
19	20.8	86	23.0	80	21.2	81
10	20.3	88	22.0	86	21.0	82
21	20.2	86	21.0	89	20.5	83
22	19.3	91	20.2	90	20.2	86
23	19.0	93	19.8	91	20.2	86

Climate data in the project area in 1983 (continued)

	5, Jun	e	10, Ju	ine	15, Ju	ne
Time	Temperature (°C)	Humidity (%)	Temperature (°C)	Humidity (%)	Temperature (°C)	Humidity (%)
0	22.5	85	23.0	86	25.6	90
. 1	21.8	86	22.4	88	25.0	91
2	22.0	91	22.2	89	24.9	92
3	21.4	90	21.9	91	24.4	87
4	21.3	90	21.3	90	23.6	92
5	21.0	96	20.7	94	23.6	93
6	20.7	95	20.5	94	23.2	94
7	21.5	91	21.9	86	24.0	91
8	23.0	80	23.1	80	25.0	82
9.	24.0	72	24.5	78	26.0	77
10	25.5	64	25.7	69	26.6	72
11	27.0	56	27.1	54	27.1	70
12	28.0	52	27.9	60	27.6	70
13	29.2	50	27.8	53	28.1	68
14	29.3	54	27.0	64	28.1	65
15	29.3	55	26.5	68	28.4	60
16	27.5	68	26.5	65	28.0	62
17		76	26.9	62	27.5	70
18	25.6	77	26.3	70	27.0	72
19	24.9	80	25.0	72	26.0	76
20	24.0	83	24.0	77	24.9	81
21	23.2	87	23.6	78	24.0	86
22	22.8	.88	23.5	81	23.9	85
23	22.3	91	23.3	83	23.6	87

Climate data in the project area in 1983 (continued)

		<u> </u>			1, July			
Time	20, Ju	ne	25, Ju	ine	1, Jul	tali bili bili bili bili bili bili bili b		
	Temperautre (°C)	Humidity (%)	Temperature (°C)	Humidity (%)	Temperature (°C)	Humidity (%)		
0	22.5	90	25.1	85	24.0	84		
1	22.5	90	25.0	90	23.2	82		
2	22.5	90	24.4	90	23.2	83		
3 · · · · ·	22.0	93	23.9	92	23.0	89		
4	21.9	95	23.2	95	22.1	94		
· . ₅	21.9	95	23.0	96	22.0	94		
6	21.4	96	22.8	96	22.0	94		
7	21.7	97	23.0	94	23.0	91		
8	24.5	80	24.5	83	26.3	75		
9	26.0	67	25.5	76	27.0	76		
10	27.0	64	26.8	69	28.0	71		
11	18.5	57	27.5	62	29.7	58		
12	29.6	54	28.5	54	29.5	59		
13	29.7	57	29.2	52	31.0	35		
14	30.4	49	29.8	53	31.5	46		
15	31.2	46	29.0	58	31.5	61		
16	31.2	41	29.0	58	31.0	69		
17	31.8	44	28.0	59	30.5	70		
18	39.5	54	27.8	64	30.0	72		
19	37.9	67	26.0	70	28.0	73		
20	26.0	81	25.0	76	26.0	82		
21	25.0	86	24.2	78.	25.1	85		
22	24.5	90	24.0	75	24.9	87		
23	24.0	91	23.7	78	24.6	87		

Climate data in the project area in 1983 (continued)

		5, Jul	Y	17, Ju	ıly	20, Ju	ly
-	Time	Temperature (°C)	Humidity (%)	Temperature (°C)	Humidity (%)	Temperature (°C)	Humidity (%)
:	0	23.2	88	24.0	84	23.9	88
	1	22.8	90	24.0	91	23.6	89
٠.,	2	22.3	92	23.7	90	23.4	93
	3	22.2	94	23.1	93	23.0	91
•	4	22.0	92	22.8	93	22.0	94
	.5	22.0	95	22.5	94	22.0	94
	6 -	21.9	93	22.1	93	22.0	93
	7	22.5	90	23.0	92	22.3	89
	8	24.9	77	25.0	79	23.7	82
	. · 9	26.5	64	27.0	65	25.0	73
	10	27.7	58	28.1	59	26.0	65
	11	27.4	57	29.0	57	27.7	57
	12	28.0	59	29.2	55	28.5	51
	13	28.9	55	29.2	55	29.5	50
	14	29.9	54	29.7	53	30.2	48
•	15	29.8	57	30.4	58	21.0	47
٠.	16	29.5	60	30.1	54	31.7	47
٠.	17	29.8	60	30.2	54	30.5	55
	18	29.1	60	29.1	60	29.5	61
	19	27.1	68	27.4	67	27.0	73
	20	26.0	175	26.0	76	26.0	81
٠.	21	25.0	80	25.2	80	25.4	84
	22	24.5	83	24.8	82	25.0	85
	23	24.1	87	24.4	85	24.8	86

Climat	e data in the	project ar	ea in 1983 (d	ontinued		
:	25 75		30, Ju	1 52	5, Au	
Time	25, Ju		Temperature	Humidity	Temperature	Harris Barrier Communication
	Temperature (°C)	Humidity (%)	(°C)	(%)	(%C)	(%)
0	24.9	89	25.0	87	24.8	92
1	24.8	90	24.8	88	24.4	92
2 ·	24.9	90	24.3	87	24.0	92
3.	24.3	91	23.7	91	23.8	92
4	24.1	94	23.4	92	23.4	93
5	23.4	95	23.0	94	23.0	92
6	23.0	.95	22.6	94	22.5	92
7	23.2	94	23.0	92	22.1	92
8	25.0	84	24.5	80	23.8	86
9	26.0	·	26.7	70	25.5	80 in
10	26.9	74	28.2	64	27.0	70
11	28.4	66	29.4	60	29.0	60
12	29.9	54	30.0	56	30.0	58
13	31.0	57	30.3	48	31:2	50
14	32.0	42	31.1	: 46	32.0	51
				45	33.1	50
15	33.2	43	32.3	45 52	32.8	60
16	34.0	36	32.1	52	32.5	61
17	33.5	42	31.2	52 57	32.1	60
18	32.0	54	30.0	64	30.9	61
19	30.0	65	28.0			
20	27.7	78	26.1	76	28.2	70
21	26.7	78	25.3	78	27.2	77

		r Militaria. Depoka objektoj	rea in 1983 (c	ing and the second		
-	10, Au	ig.	15, Au	g.		
Time	Temperature (°C)	Humidity (%)	Temperature (°C)	Humidity (%)	Temperature (°C)	Hui
.0	24.0	91	24.0	91		
1	23.8	92	23.8	91		
2	23.4	92:	23.6	90		
3	23.0	93	23.0	93		
4	22.9	93	23.0	93		
5	22.5	94	22.5	93		
6	22.4	94	22.2	94		
7	22.0	94	22.5	95		
: 8	24.0	87	25.0	72		٠
9	25.5	85	27.3	70		. 1:
10		60	20.4	62		
	27.0	68	28.4			
11	28.0	61	29.9 30.4	57 . 54		·
12	29.1 30.4	54	30.4	56		
13	30.4	48 45	31.8	54		
14		43				
15	31.0	43	30.3	66		2
16	30.1	46	30.1	67		: 1
17	30.9	44	29.8	69		
18	30.0	44	28.7	71		
19	28.1	52	27.1	80		
20	26.5	62	26.5	79		
21	25.8	71	26.0	83		1 11
22	25.4	77	25.5	83		
23	25.0	83	23.0	88		

Records of Temperature and Relative Humidity in the Project Area

Station: Bahr El Baqar Village

Month/Day	Temp	erature	(°C)	R.	Humidity	(%)	Remarks
	Max.	Min.	Mean	Max.	Min.	Mean	
4/27	27	14.5	19.7	85	42	66.5	From 4/27
4/28	28	16.75	24	98	52	77	to 7/20 the Station has
4/29	28	20	24	91	48	75.3	not experi-
4/30	30	20	24	97	40	71.8	enced any rainfalls.
5/1	29	21	24.3	90	58	72	ratmrarra.
5/2	29	21	25.3	98	58	72	
5/3	27	18.8	24.5	97	60	75	
5/4	28	21	24.8	96	56	75	
5/5	30	21	24.8	90	48	72	
5/6	27	22	24.5	90	69	79.3	
5/7	27	21	23.5	91	60	75	
5/8	30	21	24.3	92	42	73.5	
5/9	29	21	24. 8	91	62	76	
5/10	37	22	30.8	91	22	63	
5/11	28	24	25.5	89	60	77.5	
5/12	30	23	25.8	91	51	72.8	
5/13	29	22	25.8	88	62	77.8	
5/14	28	22	25	98	64	78.3	
5/15	27	22	24	97	60	75.3	
5/16	31	22	26	91	43	71.3	
5/17	33	23	27	98	39	69.5	
5/18	33	23	27.5	91	30	62.8	
5/19	34	19.5	27.5	91	39	70	
5/20	33	23	28	88	40	64.5	
5/21	29	24	25.5	91	60	76.8	N. Propie
5/22	29	22	25	90	59	75	
5/23	30	21	25	89	59	77.5	
5/24	32	22	25.8	93	50	73.5	
5/25	31	21	25.5	91	52	76.3	
5/26	32	22	26.5	91	40	71.8	

Bahr El Baqar Village(continued)

11.	Tem	perature	(°C)	R. I	lumidity	(%)	Pare
Month/Day	Max.	Min.	Mean	Max.	Min.	Mean	Rema
5/27	31	25	29	90	60	76.5	
5/28	30	22	25.5	91	59	77	
5/29	29	21	24.8	91	58	75.3	
5/30	30	22	25.3	98	60	77.8	
5/31	30	22	25.8	91	59	72.8	
6/1	32	22	26	95	41	72.3	
6/2	32	23	26.5	93	50	78	e e e e e e e e e e e e e e e e e e e
6/3	28	21	23.8	91	61	75.3	
6/4	30	21	24.5	92	40	70.5	
6/5	29	21	24.3	90	52	74	
6/6	29	21	25.3	92	50	71.5	
6/7	27	22	24.5	93	60	74	
6/8	38	21	27	91	52	71	* * * * *
6/9	29	21	24.5	90	43	70.8	
6/10	27	22	24.5	90	69	79.3	
6/11	27	21	23.5	91	62	75.5	11.
6/12	30	21	24.3	92	42	71	-
6/13	29	21	24.8	91	62	76	
6/14	38	22	28.5	91	22	62.8	
6/15	27	24	25.8	89	60	76	
6/16	.30	23	26	91	51	72.8	
6/17	29	22	25.8	89	62	78	
6/18	28	22	25	91	63	76.3	
6/19	27	22	24	91	60	73.8	
6/20	31	22	26	91	43	70	
6/21	33	23	27.3	98	39	69.5	
6/22	33	23	27.5	91	30	62.8	
6/23	33	23	27.3	91	39	70.3	
6/24	33	23	27.8	89	40	64.8	.*
6/25	29	24	25.5	91	60	77	1
6/26	28	22	24.5	90	59	75.3	
6/27	30	21	25	89	60	77.8	
						· ·	

		The second second	alagia Peleb				
				•	$1,\dots,r_{p}$		
Bahr El Baqar	Village	(conti	nued)				
ant hr bagar			A Maria Company				
	Temr	erature	(°C)	R. F	lumidity	(%)	
Month/Day	Max.	Min.	Mean	Max.	Min.	Mean	Remar
6/28	32	22	25.8	91	59	75.3	
6/29	31	21	25.5	91	52	76.3	
6/30	32	22	26.5	91	40	70.3	
7/1	31	23	26.5	90	60	77.8	
7/2	30	22	25.5	91	59	77	. 1. 24 % 4
7/3	30	21	25	91	58	75.3	
7/4	29	22	25	91	61	76.3	The Burn
7/5	30	22	26	91	58	72.8	
7/6	32	22	26	92	41	72	$f(x) = \frac{r^{\frac{1}{2}}}{r^{\frac{1}{2}}} f(x)$
· • · ·	32	23	26.5	92	50	77.8	

Records of Temperature and Relative Humidity
in the Project Area

Station: Bahr El Baqar Village

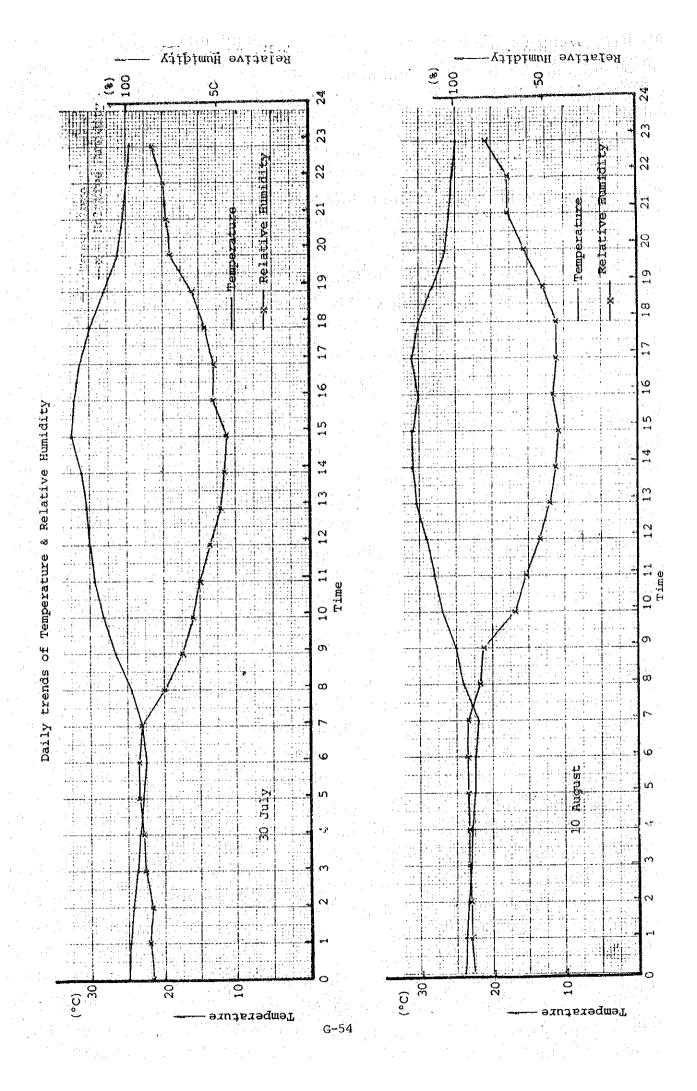
	Temp	erature	(°C)	R. I	lumidity	(%)	
Month/Day	Max.	Mi.n.	Mean	Max.	Min.	Mean	Remarks
7/17	30.2	23.1	26.35	94	59	73.875	From 7/17
7/18	31	23	26	90	55	75	to 11/4, there are
7/19	29	23	25.5	90	65	76	no rainfall
7/20	31	23	26	91	46	74	experienced
7/21	33	24	27	89	52	75	Minney Comme
7/22	84	24	27.5	90	42	75	
7/23	31.5	25	27	92	56	77	
7/24	31	23	26	88	55	75	
7/25	33	24.50	28	91:	42	75	
7/26	34.5	22.5	26	94	38	78	
7/27	32	24.5	27	92	41	71	
7/28	32	22	26	94	49	73	
7/29	32	24	27	90	38	69.5	
7/30	33	24	27	91	45	71	
8/1	33.5	23.5	27	93	37.5	70	Property (1977)
8/2	34	23	28	76	48	63	
8/3	32.5	25.5	28	93	59	78.5	
8/4	33	26	29	90	50	75	
8/5	33.5	24	28	92	50	75	er en
8/6	33.5	24	27	92	54	78	
8/7	32	25	27	93	52	76	
8/8	31	24	27	90	48	75	· · · · · · · · · · · · · · · · · · ·
8/9	31.5	23.5	27	93	72	85	
8/10	31	23	27	93	42	70	a second district
8/11	30.5	22.9	27	92	51	73	Posta in the state
8/12	31	23.1	26	93	56	79	All was to the first of the
8/13	31.5	23	26	92	54	77.5	
8/14	32.5	23.5	26	94	46	75	A Agrico de Sentido de Composições de Composições de Composições de Composições de Composições de Composições A Agrico de Composições de Co
8/15	30.5	23	27	93	65	78	
8/16	29	23	27	94	58	76	

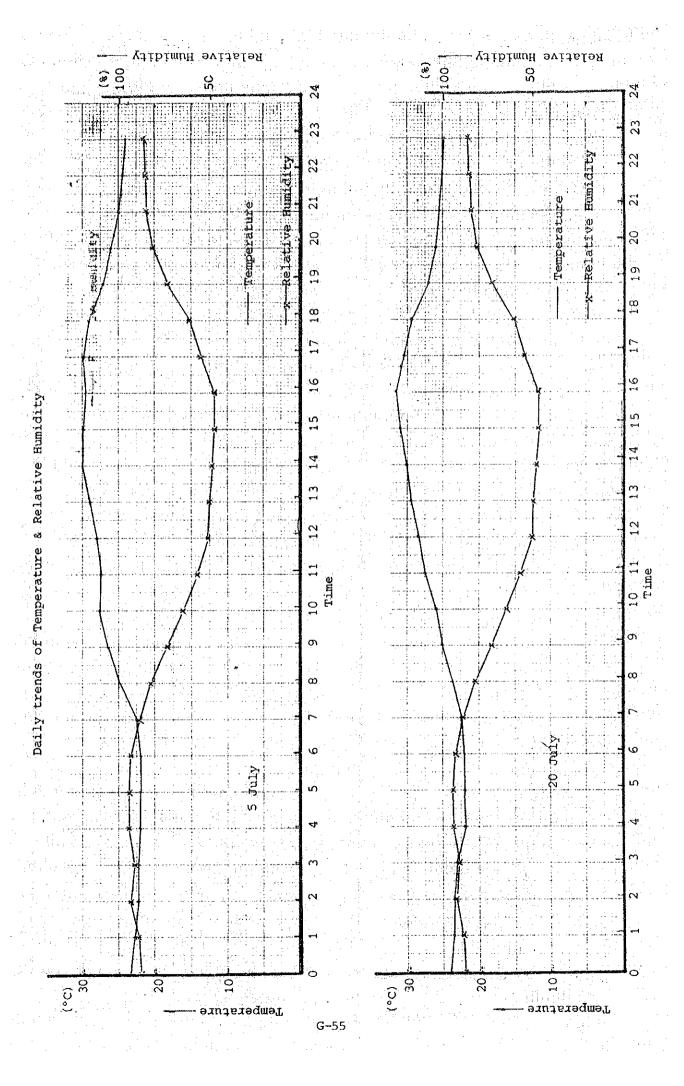
Bahr El Baqar Village: (continued)

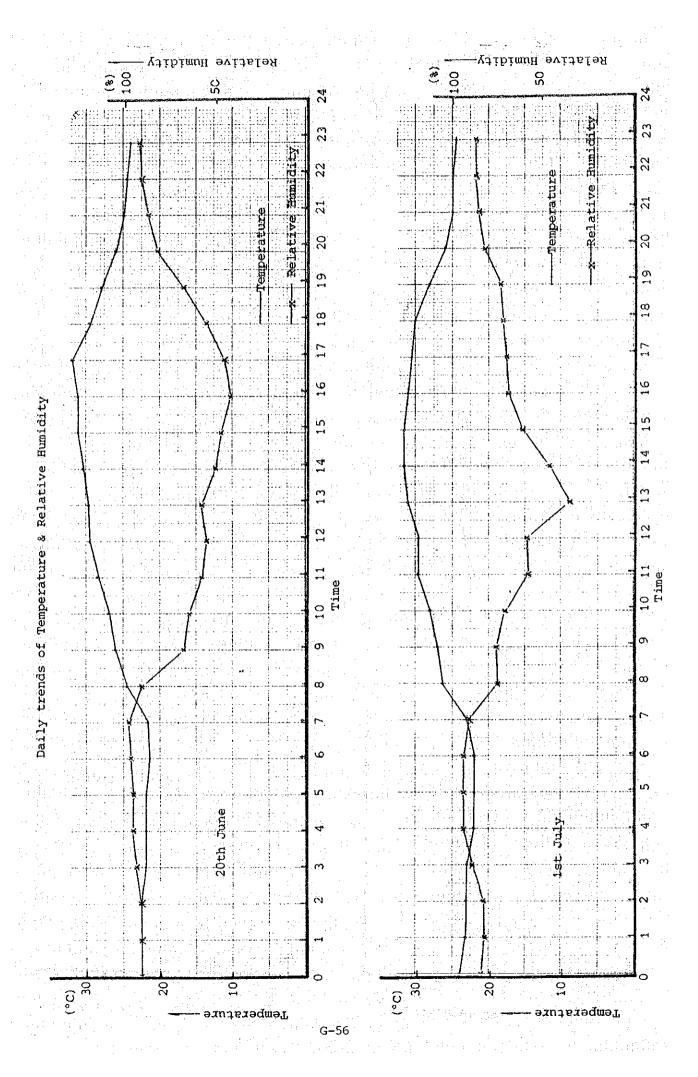
	Temp	erature	(°C)	Rela	tive Hun	nidity (%)	
Month/Day	Max.	Min.	Mean	Max.	Min.	Mean	Remarks
11/5	25.0	19.1	22.1	94	60	77.	
11/6	26.0	17.6	21.8	96	52	74	
11/7	24.8	18.0	21.4	98	54	76	
11/8	25.1	16.2	20.7	94	48	71	$\{(\frac{1}{2},$
11/9	24.9	15.1	20.0	96	47	72	
11/10	25.0	14.5	19.8	97	50	74	
11/11	24.9	16.3	20.6	92	49	71	
11/12	22.6	16.5	19.6	92	62	77	
11/13	21.5	15.0	18.3	94	58	76	and the second of the second o
11/14	24.0	14.5	19.3	98	48	74	
11/15	26.1	15.2	20.7	96	48	73	
11/16	27.5	15.4	21.5	93	30	62	
11/17	28.0	17.0	22.5	82	34	58	
11/18	32.0	14.8	23.4	88	26	57	
11/19	29.1	16.0	22.6	96	34	65	
11/20	26.2	16.5	21.4	98	30	64	
11/21	24.3	15.6	20.0	96	52	74	
11/21	25.0	14.1	20.0	96	48	72	
11/23	25.9	15.0	20.5	97	42	69	
11/24	23.4	15.1	19.3	96	60	78	
11/24	21.8	16.5	19.2	95	60	78.	
100			20.3	95	52	74	
11/26 11/27	24.0 25.0	16.5 15.0	20.0	96	50	73	
	26.5	14.3	20.4	97	50	74	
11/28	25.1	13.7	19.4	92	44	68	
11/29	25.1 25.4	14.0	19.7	94	38	66	
11/30		and the second	19.7	96	48	72	
12/1	24.6	14.0			40	68	
12/2	24.0	14.0	19.0	96 or			
12/3	22.5	14.0	18.3	95	, 58 <u>.</u>	77	
12/4	23.5	16.0	19.8	96	57	77 —————	
				1			
		The state of the s					
			ماند ماند نیر		e de la companya de l		
The second second			G-52	Section 1997			

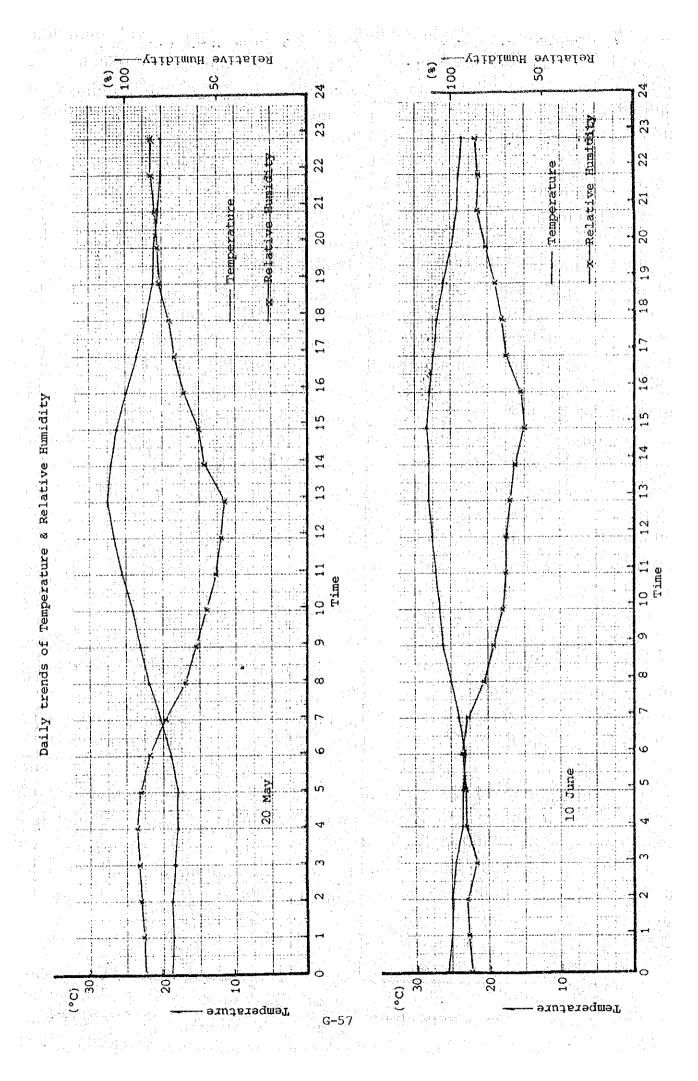
DAILY TRENDS OF TEMPERATURE &

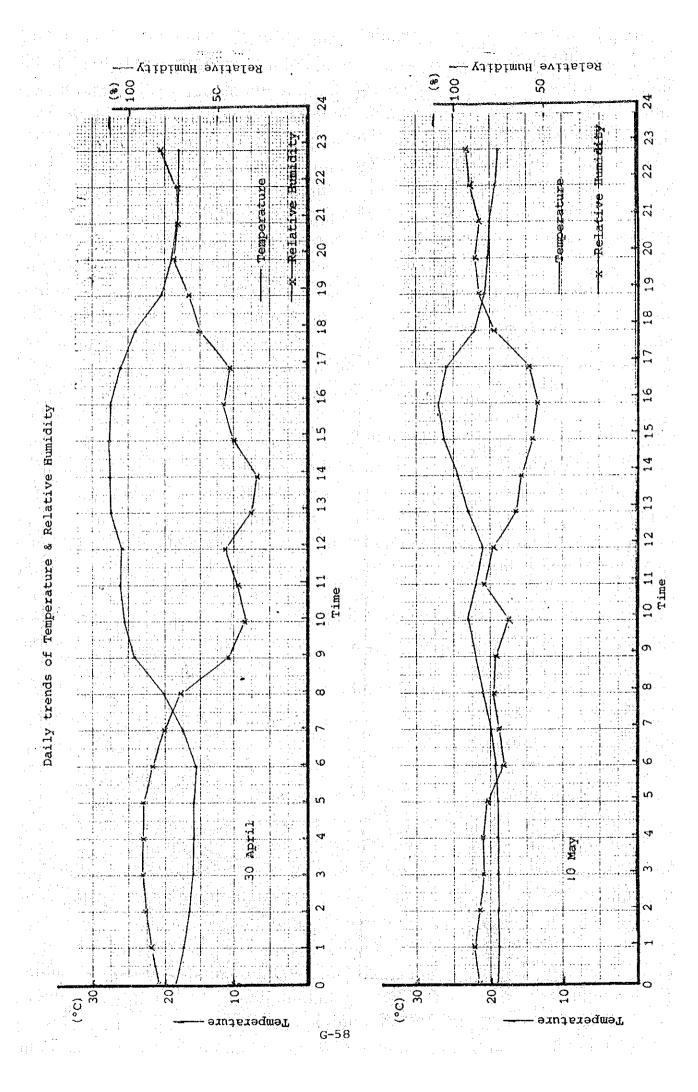
RELATIVE HUMIDITY IN THE PROJECT AREA











G-4 WATER FLUCTUATION RECORDS OF HADOUS DRAIN

(3rd, July - 17th, Sept.)

jirtiji. Trast									in the second	
	1 1									
		W	ater Fl	uctuati	on Reco	rds of Had	aus Dra	ı i n		
	Time					Time				
n	ate	0:00	6:00	12:00	18:00	Date	0:00	6:00	12:00	18:00
				化二甲基二甲基苯基						
J	uly 3	6.9	9.7	8.5	10.6	Aug. 1	18.0	20.1	18.0	18.0
	4	6.8	9.5	8.3	11.2	2 ************************************	16.2	17.8	16.0	17.5
	5	7.5	10.2	9.5	10.8	3	15.8	18.8	17.3	18.0
	6	7.0	9.0	7.4	12.8	4	16.2	18.4	17.5	18.2
	. 7	4.8	10.8	11.4	13.4	5	16.3	17.8	16.9	15.8
	8	8.0	10.5	10.6	11.8	6	15.8	17.0	15.5	16.8
:	9	9.0	11.4	9.8	11.0	7.	16.4	16.3	15.8	18.5
	10	7.7	9.5	8.0	9.2	8	16.4	17.8	16.2	18.8
	11	5.8	5.0	-		9	16.0	16.6	16.0	18.4
geri.	12			i i i i i i i i i i i i i i i i i i i	: -	10	15.8	16.2	15.8	17.0
	13	d a go.	- 1	aptility (11	1555	14.7	15.3	16.0
	14	<u>-</u>	<u>-</u>	<u>.</u>	_	12	15.5	14.0	15.7	15.6
	15	_	-		i je i	13	15.5	15.0	14.4	16.2
	16	-	-	14.9	16.5	14	13.6	14.6	14.8	16.8
	17	15.6	17.1	14.8	17.3	15	14.8	16.0	15.3	17.0
	18	15.5	16.0	15.0	17.3	16	15.0	16.1	16.3	18.5
Maria.	19	15.2	16.4	15.4	16.6	17	15.8	16.8	16.3	18.0
	20	15.2	17.0	14.0	15.0	18	15.5	16.6	16.5	17.6
ķ. His	21	12.2	15.0	14.0	15.2	19	15.2	15.7		16.3
	22	15.1	16.0	15.2	16.0	20				15.0
	23	14.8	16.0	16.6	18.8	21	12.8		10.5	16.9
	24	17.0	17.1	16.8	17.8	22	15.0	16.8	15.6	17.3
	25	17.0	15.5	15.4	17.6	23	13.8		17.8	19.0
		16.8	16.3	15.3	16.5	24	17.5	19.4	20.0	20.0
	27	16.0	17.6	17.0	17.8	25	17.2	20.0	19.8	19.6
		16.4	18.2	14.9	17.0	26	18.8	19.8	19.6	20.7
	29	19.4	20.5	21.4	22.0	27	19.0	20.0	18.0	19.7
		21.0	21.2	18.0	20.3	28	16.0	19.4	19.6	20.2
	31		20.0		19.5	28 29	18.0	19.4	17.5	22.0
	31	17.2	20.0	10,7	13.3					
						30	20.0	21.8	2000	22.8
						31	20.2	23.0	22.0	23.5
5. ·							tion to the second of the seco			
100		and the second seco			G-60				Pintage L	er day of the

Water fluctuation records of Hadaus Drain (Continued)

Time						ime				
Date	0:00	6:00	12.00	18:00	Date	0:0	0 0:00	6:00	12:00	18:00
Sept. 1	21.0	21.2	20.6	21.5	Sept.	. 25	22.	24.8	25.5	27.2
	19.0	20.0	20.0	21.5		26	24.8	26.8	28.0	28.2
	18.8	20.0	20.4	22.5		27	25.8	27.5	28.0	28.8
	1 18.0	22.6	22.8	22.8		28	26.4	29.0	29.8	30.0
į	19.4	22.6	16.3	20.0		29	28.1	30.1	31.0	32.0
	19.2	22.2	21.0	21.8		30	29.0	31.0	31.3	33.0
	19.5	22.2	20.8	22.2	300	8.11	ų de labor		40.011	
	3 18.0	21.3	20.6	22.0	Oct.	.1 : ·	29.5	32.3	29.3	27.0
9	19.6	22.8	21.6	22.8		2	22.6	26.4	27.6	30.9
. 10	21.0	23.8	21.0	22.0		3	26.2	29.6	29.9	32.7
11	19.0	22.0	20.0	21.0	r Generali Generali	4	28.0	30.0	30.2	32.0
12	18.0	22.0	18.5	20.8	eda e i i jeli Grafie i jeli	5	28.4	31.8	31.4	32.1
1:	3 17.8	20.1	19.0	19.8		6	27.2	31.0	32.0	34.6
1	16.0	19.2	19.0	20.4		7	31.9	34.0	33.8	34.4
15	17.0	19.5	19.0	19.5		8	31.0	33.9	33.8	34.3
16	16.0	19.3	18.3	19.6		9	30.3	32.6	33.5	34.2
17	18.0	19.2	18.3	22.0		10	29.0	31.9	33.8	35.2
18	3 21.0	22.7	21.0	21.3		11.	29.0	33.0	34.0	34.3
19	21.7	22.6	20.6	21.8		12	26.2	31.9	33.4	33.0
20	20.6	22.5	22.8	23.8		13	29.0	33.2	34.2	34.4
21	24.0	23.0	23.3	24.0		14			74	4.
2	2 23.0	24.2	23.5	24.0		15		ing and a second	engine Anglia	
2	3 22.6	24.5	24.6	25.8		16			t e e	
. 24	24.1	25.1	24.0	25.4		· ·				

	*			in de la compania de La compania de la co							
		4	Water F	luctuati	on Reco	cds in	Lak	e Manza	ala		
. * *	e engle in			outhern							
•	Time		es askija			T	ime		Participal (A)		
i e i	Date	0:00	6:00	12:00	18:00	Date		0:00	6:00	12:00	18:00
	July 17	4.0	3.8	2.8	4.0	Aug.	17	6.5	6.0	4.5	6.2
	18	5.0	4.0	3.0	4.0	Aug.	18	7.2	5.5	4.9	7.0
	19	4.8	4.0	3.0	4.0		19	7.4	6.3	4.8	6.6
	20	4.5	4.0	3.0	3.0		20	7.0	5.4	4.8	6.8
	21	3.1	3.2	2.8	2.5		21	6.5	5.0	5.0	6.8
	22	4.8	4.0	3.1	3.4		14	6.7	6.0	5.0	6.8
	23	5.0	4 1 2		6.0			6.7	5.8	5.2	7.0
Ė.,	24	6.0	5.0	4.0	5.0		24	1.0	7.0	6.2	7.0
	25	, M. 19	5.4	4.8	5.1			7.7	7.7	7. 9.	7.0
1 .	1	6.3	100	4.1	4.7	14 4	26	7.9	7.0		7.2
a and the	27			5.3	7.5	i pia	27	8.1	7.6	6.2	8.1
	28	7.5	5.5	4.9	7.6		28	7.8	6.0		8.2
	29	8.7	9.0	7.3	8.0		29	8.5	7.0	6.5	7.5
	30	9.0	8.9	7.3	7.2		30	8.2	8.0	7.3	8.4
	31	7.4	6.0	1.5	6.0		31	9.5	8.6	8.3	9.2
•	31		0.0	0.0			J.	J. J	0.0	0.5	
2	Aug. 1	5.6	5.0	4.5	5.0	Sent	1	8.0	7.0	7.0	7.6
		5.2	And the second		5.0	DCPC		100	7.0	5.7	6.5
100				5.0	6.4				5.7	5.5	6.0
٠.	4	7.2	6.0	5.0	6.5			6.8	6.8	6.3	6.7
	5	6.8	4.2	5.1	6.0				6.8	6.3	6.7
	6	6.4	6.0	5.7	5.8			7.3	1.5	6.0	7.0
. :	. 7	7.2	6.0	5.0	7.6			7.0	6.5	6.0	7.7
		8.0	7.1		7.4		8	7.89	6.4	6.0	8.0
÷		8.0		6.0	8.5		9	8.0	e transfer	5.8	7.7
	9 10	8.5	7.0	6.5	8.0		10	7.9	5.8	6.3	7.0
	11	7.8	6.5	6.0	6.7	: :	11	7.1	6.7	6.0	7.0
+ 1	12	7.6		5.3	6.1		12	7.0	6.5	5.8	7.0
	13	6.8	5.9	4.9	5.0		13	8.0	6.3	5.2	6.3
	14	5.3	4.5	4.2	5.0		14	6.3	5.5	5.2	6.7
	15	6.1	5.0	4.7	5.0		15	7.0		5.1	6.1
	16		5.3	建筑的	6.0		16	6.9	6.4	5.2	7.8
	10	3.4	۰, ۰, ۰	4.0	0.0		1.0		0.4	J. Z	0
	n valdad.						TA :-	8.0			
			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		G-62						in the second second

Tidal Fluctuation of Mediterranean Sea
Water Level Records at Port Said

Monthly mean water level

	Month		Water Leve
	January		-0.03
	February		-0.05
	March		-0.09
	April		-0.09
	May		-0.07
	June		-0.01
	July		+0.07
and the second second	August	* *	+0.10
	September		+0.08
	October	11	+0.04
	November		+0.04
	December		+0.03
Highest high wat	er level		+0.05
Lowest law water	level		-0.65
Average annual h	igh water level		+0.44
Average annual l	ow water level		+0.04
Charles and a second second	the state of the s		According to the second

^{*}The elevations are referenced to the National (Alexandria) Datum.

Source: Suez Canal Authority Records

G-5 RESULTS OF ELECTRICAL CONDUCTIVITY TESTS IN LAKE MANZALA

Results of Electrical Conductivity Tests in Lake Manzala

				1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
Date	Point No.	E.C. (ms/cm)	Temp. (°C)	ppm
5/23	Baqar (Water) (1)	1,200	28	540
u	" (Water) (2)	1,200	32	530
, H	No. 1	1,500	30	680
5/24	S-1	1,600	26	780
5/25	Ramsis (Water)	1,200	27	580
i ii	" (Canal)	3,200	28	1,500
n	" (Drain)	4,200	28	2,100
6/5	M-9	5,300	30	2,500
6/6	S-5	>10,000	29	
$e^{-i\frac{\mathbf{n}}{2}}$	M-11	2,300	30	1,100
. II -	M-12	2,500	31	1,150
6/7	M-14	5,200	29	2,600
in .	M-15	3,200	30	1,500
6/8	M-17	2,300	29	1,100
n .	M-18	2,000	29	950
:	M-19	2,400	30	1,000
6/9	M-20	2,300	29	1,000
6/11	M-24	8,900	26	4,700
σ	M-25	>10,000	29	-
101	M-26	>10,000	29	
6/12	M-27	6,600	25	3,600
$\mathbf{v}_i \mathbf{v}_i$	M-28	>10,000	27	-
e d	M-29	>10,000	29	: . · -
6/13	S-8	>10,000	29	_
11	M-30	>10,000	27	-
n 12	S-9	>10,000	31	-
n	M-31	>10,000	30	_
6/14	s-10	>10,000	26	erentalis. Periodologia
n n	M-32	>10,000	26	saalii ah
it.	M-33	>10,000	31	<u>-</u>

Results of electrical conductivity tests in Lake Manzala (continued)

Date	Point No.	E.C. (ms/cm)	Temp. (°C)	ppm
6/19	Hadous (water)	2/000		930
H ere is a	Field canal (near Matari	ya) 3,200	34	1,400
н	Salam (Water)	3,400	29	1,700
u	Paddy Field (Water)	3,600	30	1.800
e de la companya de l	Paddy Field Canal	2,700	32	1,200
6/22	M-34	2,400	30	1,130
11	M-35	2,500	30	1,170
"." II	м-36	2,600	30	1,200
ıı .	M-37	2,600	30	1,200
11	м-38	2,500	31	1,170
11	M-39	2,650	32	1,250
11	M-40	2,600	31	1,200
6/23	M-41	2,600	31	1,200
n	M-42	2,700	31	1,270
Ħ	M-43	2,500	32	1,170
transfer to	M-44	2,700	32	1,260
ų *	M-45	2,000	32	940
u	M-46	2,050	31	950
11	M-47	2,100	31	970
6/26	M-48	2,100	25	1,070
п	M-49	2,000	28	960
n	M-50	3,500	27	1,680
n ·	M-51	4,400	28	2,100
n	M-52	5,800	29	2,800
1f	M-53	4,000	29	1,900
6/27	M-54	2,400	28	1,170
H.	M-55	2,400	29	1,170
11	M-56	2,700	29	1,270
	M-57	2,700	29	1,270
1 m -	M-58	4,000	29	1,900
u u	M-59	3,000	29	1,400
ri .	м-60	2,800	28	1,320
u	M-61	3,300	31	1,600

Results of electrical conductivity tests in Lake Manzala (continued)

Date	Point No.	E.C. (ms/cm)	Temp. (°C)	ppm
7/2	M+68	2,400	29	1,120
n	M-69	2,300	31	1,080
	м70	2,500	30	1,170
n	M-71	3,200	30	1,520
11	M-72	3,300	31	1,580
н	M-73	3,200	30	1,520
	M-74	3,400	30	1,620
ц	M-75	3,400	29	1,620
ŧŧ	M-76	3,600	29	1,720
7/3	M-77	1,000	27	480
in the second	M-78	1,000	28	480
m e e la	M-83	8,800	30	4,400
н	M-84	9,600	30	4,800
H	M-85	9,200	30	4,600
It	M-86	7,800	30	3,900
7/4	M-87	>10,000	30	· · · · · · · · · · · · · · · · · · ·
н	M-88	9,500	30	4,700
7/5	M-91	3,200	33	1,500
n	M-93	>10,000	30	******
n .	M94	>10,000	30	<u></u> ·
n	M- 96	>10,000	30	· -
Ħ	м-98	7,800	31	3,900
7/7	M-99	9,000	31	4,500



