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Water Quality Improvement and Conservation Project

Zarqa River Conveyance Study

Consolidated Consultants
Harza Engineering

The Technical Assistance Team Includes:

Development Alternatives, Inc.
Science Applications International Corp.
Harza Environmental Services, Inc.
Development Associates, Inc.

United States Agency for International Development
Contract No. 278-0288-00-C-4026-00

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EXECUTIVE SUMMARY

The Zarqa River Conveyance Study, a component of the Jordan Water Quality Improvement Project, is being performed by Harza Engineering Company and Consolidated Consultants in two phases:

Phase A Conceptual Study

- Part 1 Data Collection
- Part 2 Data Evaluation
- Part 3 Selection of Preferred Alternative

Phase B Feasibility and Environmental Assessment

This Inception Report pertains to Phase A, Part 1 Data Collection

The activities associated with Part 1 included data collection, a preliminary analysis of the data collected, and a reconnaissance of the study area. As a result of these activities, this report, which includes a final work plan, was prepared.

Part 1 of Phase A was performed by Harza's Project Manager and Lead Engineer and Consolidated Consultants' Deputy Manager, two Civil Engineers, and a Hydrologist, Hydrogeologist, and Geologist.

The data collection activity consisted of meetings with the JVA and the Water Authority and the collection of operation data for King Talal Dam and the King Abdullah Canal (KAC), water quality data for the Zarqa River and the KAC, and basic data relating to the earlier channel conveyance efficiency studies. Meetings were held with members of the staff of the Operations, Water Quality, and Planning units, and staff of the Water Authority's Irrigation Department.

Essentially an adequate data base exists to perform the required studies. Certain data are still being sought and the data that has been reported as not available will not adversely affect the performance of the study. The single most important information that has been identified but not yet obtained is the 1:10000 mapping in the Zarqa River Valley below King Talal Dam.

Three separate reconnaissance trips were taken to the study area to meet with field staff and to study conditions along the river. The first trip was performed by the Project Manager, Lead Engineer, Civil Engineer, Hydrologist and an engineer from the Irriation Department of the Water Authority, and covered the lower reach of river between the Tel El Thahab Weir and the Abu Zeighan Weir. The purpose of this trip was to meet with the operations and water quality field staff, to become familiar with the channel conditions, and to inspect the springs and seeps. The second trip was performed by the Project Manager, Deputy Manager, Lead Engineer, Hydrologist and a member of the JVA staff stationed at King Talal Dam, and covered the reach of the Zarqa River from King Talal Dam to just upstream from the Tel El Thahab Weir. The purpose of the second trip was to determine the condition of the stream channel, to investigate the possibilities for construction of a pipeline and to look for lands irrigated from the river. The final inspection was performed by the hydrogeologist and the geologist and covered the entire reach of the river below the dam. The purpose of the third trip was to assess the geologic and hydrogeologic conditions from the standpoint of the groundwater flow regime and the construction of facilities to improve channel conveyance efficiency.

Based on a preliminary analysis of the data collected, the reconnaissance, and discussions with the JVA's field staff, several preliminary conclusions were made:

> Channel losses occur primarily in the reach below Tel El Thahab Weir.
>
> The improvement of the water quality of the Zarqa River water diverted into the King Abdullah Canal is essential to maintenance of the integrity of the irrigation activities on the lands in the Jordan Valley south of the Zarqa River.
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> The favored alternative to improve water quality and improve the conveyance efficiency of the Zarqa River is to divert the King Talal releases and the unregulated water of the Zarqa River at the Hwaret Weir around the reach of saline inflows.

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A final work plan was developed on the basis of the Part 1 activities. The plan is not much different than the original proposed plan. It has been determined that a monitoring program using automatic water level recorders will not be required; however, it is anticipated that a short duration, intense program of measurements may be required to confirm some of the results of the data analysis.

The studies will be performed within the designated schedule. Phase A will be completed within 150 days of the notice to proceed which was issued on April 1, 1995. The feasibility and preliminary design efforts can be accomplished in 90 days after a second notice to proceed has been issued. On Figure 2 "Work Plan Schedule", the second notice to proceed was assumed to be issued shortly after submittal of the final Conceptual Studies Report resulting in a completion date for the study of March 7, 1996.

There will be four deliverables associated with the study including this Inception Report as follows:

Inception Report	May 1, 1995
Comprehensive Survey Report	June 1, 1995
Draft Conceptual Studies Report	September 1, 1995
Final Conceptual Studies Report	October 7, 1995
Draft Feasibility Report	January 15, 1996
Final Feasibility Report	March 7, 1996

Table of Contents

EXECUTIVE SUMMARY I

Table of Contents i

1. INTRODUCTION 1
   1.1 Scope of Services 1
   1.2 Authorization 2
   1.3 Mobilized Staff 2

2. DATA COLLECTION 3
   2.1 Collected Data and Reports 3
   2.2 Data Identified but Not Collected 6
   2.3 Data Requested But Unavailable 6
   2.4 Information Not Readily Available But Required 7

3. SUMMARY OF PRIOR STUDIES ON CHANNEL EFFICIENCY 8

4. SUMMARY OF PRIOR STUDIES OF WATER QUALITY 13

5. PRELIMINARY REVIEW AND ANALYSIS OF DATA 13
   5.1 Channel Efficiency 14
   5.2 Water Quality 15

6. SITE RECONNAISSANCE 17
   6.1 April 13th Inspection 17
   6.2 April 18th Inspection 19
   6.3 April 20th - 23rd Inspection 20
      6.3.1 Stratigraphy 20
      6.3.2 Hydrogeology and Groundwater Movement 21

7. PROBLEMS ENCOUNTERED OR FORESEEN 22

8. PROGRAM OF WORK 22
   8.1 Phase A, Part 1 Data Collection 22
   8.2 Phase A, Part 2 Data Evaluation 23
   8.3 Phase A, Part 3 Selection of a Preferred Alternative 24
   8.4 Phase B Feasibility and Environmental Assessment 26

List of Tables

Table 1 Water Quality Measured at Various Locations
Table 2 Daily Water Quality Data
Table 3 Monthly EC Values at Selected Locations
Table 4 1994 Daily Flows to KAC South

List of Figures

Figure 1 Location of Springs
Figure 2 Work Plan Schedule
Figure 3 Expatriate Schedule in Jordan

List of Appendices

Appendix No.1 Flow Records for the Zarqa River at Various Locations
Appendix No.2 Water Budget Analysis of the King Talal Reservoir

INCEPTION REPORT
FOR THE
ZARQA RIVER CONVEYANCE STUDY

1. INTRODUCTION

The United States Agency for International Development (USAID) is supporting investments to assist the Government of Jordan in improving the management and conservation of water resources. As a part of this assistance, the Jordan Water Quality Improvement and Conservation Project (WQIC) was initiated under Contract No. 278-0288-C-00-4026-00, between Development Alternatives, Inc. (DAI) and USAID.

The Zarqa River Conveyance Study was included as a part of the WQIC program to evaluate the potential for improving the conveyance efficiency of water released from King Talal Dam and the quality of water diverted from the Zarqa River at Abu Zeighan Weir. The objective of this study is to assess the technical, environmental, economic and financial feasibility of conveying water efficiently and improving quality in the 23-kilometer reach of the Zarqa River between King Talal Dam and the Abu Zeighan Weir.

1.1 Scope of Services

To meet the objective of the study, a two-phased approach is adopted. Phase A consists of a conceptual study to identify feasible alternatives and priorities. Phase A is divided into three parts; data collection and evaluation, analysis of data and identification of alternatives, and selection of a preferred alternative. Phase B includes an environmental assessment of the preferred alternative, an economic and financial analysis and a preliminary design for the elements of the preferred alternative. There are four deliverables associated with this study. In Phase A, an Inception Report, a Comprehensive Survey Report, and a Conceptual Studies Report will be completed within 30 days, 60 days and 150 days respectively after the notice to proceed is

given. In Phase B, a Feasibility Report, to include the preliminary designs, will be submitted within 90 days after the notice to proceed for the feasibility study is given.

This Inception Report is concerned with Part 1 of Phase A which includes the collection of available data and an evaluation of the suitability and completeness of the data, a reconnaissance of the study area, the identification of additional data and information requirements, the identification of anticipated problem areas, and the finalization of a work program for the subsequent parts of Phase A and, to the extent possible at this time, Phase B.

1.2 Authorization

This study is being performed as a part of the Jordan Water Quality Improvement and Conservation Project by Harza Engineering Company (Harza) in association with Consolidated Consultants (CC) under a subcontract with DAI.

1.3 Mobilized Staff

Part 1 of Phase A, data collection and evaluation was performed as a cooperative effort by Harza and CC staff. The personnel mobilized to perform this effort included the following individuals:

Individual	Company	Position
Michael Saunders	Harza	Project Manager
Khalid Jawed	Harza	Lead Engineer
Khalid Murad	Consolidated Consultants	Deputy Manager
Maher Habash	Consolidated Consultants	Civil Engineer
Suleiman Smadi	Consolidated Consultants	Hydrologist
O. Rimawi	Consolidated Consultants	Hydrogeologist
I. Abu Taha	Consolidated Consultants	Geologist
Samir Dweiri	Consolidated Consultants	Civil Engineer

2. DATA COLLECTION

Data collection was accomplished from a perusal of previous studies, reports, data records, maps and drawings that could be identified and obtained. These data were collected from the organizations within the Ministry of Water and Irrigation and from the existing files of Harza and CC.

2.1 Collected Data and Reports

The following reports and data/information were identified and collected.

Reports. The following reports containing hydrologic and water quality data were collected:

Ministry of Water and Irrigation, Jordan Valley Authority Laboratory of Soil and Environment Directorate. Effect on the King Talal Dam Releases from Dam Site to Irrigated Area. June 1994 and February 1995 (Arabic).

Ministry of Water and Irrigation, Jordan Valley Authority, Directorate of Laboratories, Soil and Environment. Effect on the Water Quality of King Talal Dam Releases in the Zarqa River from Dam Site to King Abdullah Canal Maadi. March 1995 (Arabic).

Ministry of Water and Irrigation, Jordan Valley Authority, Directorate of Laboratories, Soil and Environment. Water Quality Analysis of Releases from King Talal Dam. Undated.

Jordan Valley Farm Agriculture Company, University of Jordan. Report on Problems of Drying of Leaves and New Shoots of Grape Trees in Zaid Rafai Form in Jordan Valley by Center for Technical Consultancy, Services and Studies. 1994.

Ministry of Water and Irrigation, Jordan Valley Authority. Directorate of Laboratories, Soil and Environment. Quality of Irrigation Water in Jordan Valley and Southern Area Annual Reports for 1992 (published March 1993), 1993 (published March 1994) and 1994 (published January 1995).

The report by the University of Jordan titled Baseline Study on Water Conveyance Efficiency in the Zarqa River Below King Talal Dam could not be obtained; however, a summary of the report with data tables and conclusions was obtained.

Hydrologic and Water Quality Data. The following water quality and hydrologic data sheets were obtained from various sources. Some of the data, as indicated, has been tabulated and included in this report.

i Periodic measurements of EC, pH, Na, Cl, and B from June through October, 1993 and from April through June, 1994 (Table 1).

ii Daily water quality data from April 1993 to March 1995 obtained from the Directorate of Laboratories, Soil and Environment of the JVA (Table 2).

iii Monthly EC values from 1986 to 1994 (many months missing) for KTD releases, Abu Zeighan Canal, KAC(Swalha), and KAC(Maadi) Table 3).

iv Daily flows for Abu Zeighan Canal and KAC(Swalha) for April to October 1994 (Table 4).

v EC and pH values for 25 locations along the Zarqa River, with a map showing approximate locations (Table 5).

vi Water quality data for springs along Wadi Zarqa.

vii One page write-up from Mr. Avedis Serpekin regarding saline springs in the Zarqa River.

viii Monthly EC values for the period from 1986 to 1994 for KAC at Tunnel, Abu Sida, Swalha, and Maadi, Karama Pump 25, Dirar, Wadi Arab at Ara, Sharhabil Dam, King Talal

Dam, Kafrein Dam, Wadi Chub Dam, Channel 65.3, Abu Zeighan Canal, Seiadic Spring, Man Salt Spring and Women Salt Spring.

ix Periodic measurements of EC for KTD release, Abu Zeighan Canal, KAC(Swalha) and KAC(Maadi).

x Quality of outflow from Kherbet Samra Treatment Plant.

xi Results of water quality samples taken on 10 locations on August 15, 1994, 14 locations on August 16, 1994 and 14 locations on August 22, 1994.

xii Monthly EC values for KTD releases and Abu Zeighan Canal for the years 1990, 1991 and 1992.

xiii Daily flows for January 1995, for KAC(Swalha) and Abu Zeighan Canal.

xiv Periodic pH and EC values at various locations along Zarqa River with estimated seepage and spring flows.

Topography of the Zarqa River Channel is available at a scale of 1: 25,000. This topography was collected from the files of the JVA.

Flow records for the Zarqa River at various locations. Daily records for the period from August 1993 through January 1995 were provided by the Department of Operations of the Jordan Valley Authority. These data included releases from King Talal Dam, diversions into Carrier Pipes I and II, and diversions at Abu Zeighan Weir and are attached as Appendix No. 1. The data prior to August 1993 will be collected as part of the on-going program.

Water quality records for the Zarqa River at various locations Daily and monthly water quality data were provided by the Directorate of Laboratories, Soil and Environment and are listed above.

Locations of saline springs and seeps Data relating to the location, quality and quantity of flow from the springs and seeps were provided by the Irrigation Department of the JVA for a special study performed in 1995.

Water budget information for releases from King Talal Reservoir Data were provided by the JVA for the period from January 1990 through March 1995, and are included as Appendix No. 2. This information is adequate to assess the losses in the channel reaches of the river.

2.2 Data Identified but Not Collected

The following information was identified but was not made available for this inception report. Efforts are continuing to obtain this information.

Topographic maps at a scale of 1:10000.

Design and as-built drawings for the Tel El Thahab Weir, the Middle (Hwaret) Weir, and the Abu Zeighan Weir, and Carrier Pipes I and II.

Unit rates for equipment, labor, and materials.

Information of local construction capabilities and efficiencies.

Irrigation and power tariffs.

2.3 Data Requested But Unavailable

The following data and information was identified for collection and analysis in the proposal; however, to the best of our knowledge, it is not available.

Records on the operation of Carrier Pipes I and II, including valve opening and closing times, pressure release systems, and reports of transient problems. Data are not available according to the Operations Division of the JVA.

Soil types along the river and the areas draining into the river. Sources in the JVA, the Geologic Survey of Jordan and the University of Jordan were contacted and no information was forthcoming.

Land use on the highlands bordering the Zarqa River channel and on the bottom lands in the channel downstream from Tel El Thahab Weir. No data are available according to the Department of Irrigation.

Current users of water diverted directly out of the river in the 23-km reach from King Talal Dam to the Abu Zeighan Weir and the magnitude of the diverted flows. There is no information concerning the amount of water withdrawn from the river by pumping above the Tel El Thahab Weir. Although withdrawals are known to occur, it is concluded by the Irrigation Department that the quantity is not significant. Below the Tel El Thahab Weir on the right bank (north side) of the river, the land is included in the Middle Ghor Project area and, as such, receives its water from Carrier Pipe No. 1. Facilities for pumping water from the river still exist on the left bank although the quantity diverted probably is not significant.

Reports on water conflicts among local farmers along the Zarqa River. No conflict is reported by the JVA.

Geologic and seismic maps. No large scale geologic maps were located for the area along the Zarqa River. Sources contacted include the Geologic Survey of Jordan, the University of Jordan, and the JVA.

2.4 Information Not Readily Available But Required

There is enough data and information available to perform the required analysis within the framework of the study scope. The data listed as requested but unavailable will not affect the scope of work.

3. SUMMARY OF PRIOR STUDIES ON CHANNEL EFFICIENCY

The Operations Division of the Jordan Valley Authority (JVA) has suspected over a long period of time that the amount of water reaching Abu Zeighan Weir is less than the amount reported to be released from KTD. During the period from 1980 to 1993, at least seven studies have been performed to assess the magnitude of the losses. A summary of each study is presented below.

Joudeh, Omar. Water Balance Study of Zarqa River Downstream of King Talal Dam. JVA, Hydrology and Groundwater Division. 1980.

This study was performed on June 29 and 30, 1980. Discharge measurements were made at eight locations along the river, from the King Talal Dam (KTD) to Abu Zeighan Weir, using current meters. Estimates were made of pump diversions to farmers in DA 53, which serve approximately 1,100 dunums. The release at KTD was about 1,820 l/sec. Evaporation loss in the reach was estimated to be 60 l/sec. Abstractions by pumping were estimated as 10 l/sec in the reach from KTD to El Thahab Weir (12.7 km), and 20 l/sec in the reach from the Hwaret Weir to the Abu Zeighan Weir (5 km). The overall loss was estimated to be 22 percent of the water released from KTD. Of the total water lost, about 41 percent was reported lost between the Hwaret and Abu Zeighan weirs.

Joudeh, Omar and Ismail Hashem. Gain - Loss Measurements on Zerqa River near Deir Alla. JVA, 1981.

This study considered losses in two reaches, from the El Thahab Weir to the Hwaret Weir, and from the Hwaret Weir to the Abu Zeighan Weir. Measurements were made on four days in July 1981. The flow rates above El Thahab varied by about 4 percent over the four days. The measurements showed that losses varied significantly depending on whether the flow in the river was increasing or decreasing. With increases in flow, the losses increased from 12.2 percent to 23 percent in the first reach and

5.9 percent to 18.7 percent in the second reach. On decreasing flow, the losses also decreased from 23 percent to 8.2 percent in the first reach and from 18.7 percent to 5.9 percent in the second reach.

Hijazi, Daoud. Untitled, Measurements Taken on March 1, 1984.

This study reported a loss of 16.2 percent of the flow entering at the upper end of the reach between El Thahab and Hwaret weirs. Measurements immediately above and below the saline hot spring below Hwaret, indicated a flow of about 10 l/sec from the spring. A third measurement at Swalha bridge downstream, showed the channel gaining an additional 14 l/sec. The reach between the bridge and Abu Zeighan Weir showed high losses.

Hashem, Ismail and Daoud Hijazi. A Report on Water Losses between King Talal Dam and Irrigation Line. Water Authority of Jordan, Groundwater Directorate, 1984."

This study used both new (collected in 1984) and old data to evaluate conveyance losses. The new data was collected when the flows from KTD were varying. Abstractions for irrigation were estimated based on the area irrigated. The authors recognized the limitation of the study; however, the study concluded that the losses in the Zarqa River channel ranged from 8 percent to 25 percent, with most of the losses occurring below El Thahab Weir.

Hijazi, Daoud. Untitled, Measurements made on 2 to 4 and 6 to 9, October, 1984. JVA,1984.

For this study, two water stage recorders were installed, one downstream from KTD and other upstream from Al Thahab Weir, to determine the stage fluctuations in the river during the time when current meter measurements were made at seven sites on the Zarqa River between KTD and Abu Zeighan Weir. The releases from KTD for October 2 to 4 and October 6 to 9 were 2,898 l/sec and

3,429 l/sec, respectively. The estimated gains and losses are summarized below.

Reach	October 2-4		October 6-9	
	Gain	Loss	Gain	Loss
	(%)	(%)	(%)	(%)
KTD to Al Thahab Weir	1.2	-	4.1	-
Al Thahab to Hwaret Weir	-	5.1	-	0.4
Hwaret to Swalha Bridge	-	4.5	1.7	-
Swalha to Abu Zeighan Weir	-	4.1	-	19.6

This study shows gains in the upper reach, loss in the next reach, mixed results for the third reach and loss in the downstream reach. The data were not corrected for diversions and evaporation losses.

Harza Engineering Company International and Masar Engineering Ltd. Wadi Zarqa Pipeline Project, Proposal. October 1986.

Harza and Masar prepared this proposal for the installation of a pipeline from KTD to the Abu Zeighan Weir after a review of the available data on channel conveyance efficiency. In various studies, the overall losses were reported to vary from 10 percent to 50 percent. It was realized that considerable benefits might accrue to the irrigation sector if these losses could be substantially reduced, if not eliminated completely. Based on an assumption that the losses in the Zarqa River channel amounted to 20 percent of the release at KTD, a 20-km, 1,200 mm diameter pipeline with a four-megawatt power plant at Abu Zeighan Weir was judged to be feasible. No attempt was made to confirm the estimates of losses assumed for the study.

Harza Engineering Company in association with Arabtech Consulting Engineers. Storage Facilities in Jordan Valley, Final Report on Technical, Economic and Financial Feasibility and Preliminary Design, Vol. II, Part II-Main Report. April 1989.

Harza/Arabtech divided the river reach between KTD and Abu Zeighan Weir into three reaches and made nine sets of current meter measurements at six locations. Streamflow measurements were taken between October 1987 and March 1988. On each day of measurement, the streamflow was measured below King Talal Dam (releases from the dam), upstream and downstream from the Al Thahab Weir, upstream and downstream from the Hwaret Weir and at the Abu Zeighan Weir. The release from KTD was kept constant for at least 12 hours prior to and during the measurements. This was done to avoid fluctuations during the observation and to eliminate the effect of bank storage. The flow contribution from springs, losses due to evaporation and irrigation diversions were not considered.

In the upper reach above Thahab weir, gains and losses in flow were noted. It was reported that pumping occurred from the river between KTD and Al Thahab Weir; however, it was not possible for the measuring party to quantify the magnitude of the pumping. In the lower reach gains in flow predominated.

The results of these measurements are summarized below.

Date	KTD to U/S of Thahab Weir		D/S of Thahab to U/S of Hwaret		D/S of Hwaret to Abu Zeighan	
	Gain	Loss	Gain	Loss	Gain	Loss
1987	(%)	(%)	(%)	(%)	(%)	(%)
Oct 12	4.6	-	5.0	-	7.7	-
Oct 17	-	2.0	7.9	-	Not measured	
Nov 9	2.9	-	-	3.9	22.5	-
1988						
Apr 19	-	11.1	12.2	-	55.8	-
Apr 24	-	5.1	16.2	-	16.4	-
May 22	9.8	-	7.9	-	1.5	-
May 30	-	5.0	-	6.9	4.1	-
Jun 12	-	10.9	22.8	-	3.5	-
Jun 27	-	6.9	-	13.3	-	0.7

The gains and losses indicated in this study are not consistent. It is likely that gains or losses are dependent on the season which in-turn affects the spring flows, the magnitude of the release from KTD, diversions for irrigation and the magnitude of evaporation.

University of Jordan. Baseline Report on Water Conveyance Efficiency in the Zarqa River below King Talal Dam.

JVA water records were reviewed and a water balance was established for the various inflow and outflow components in the Zarqa River system. Inflows were defined as flow releases from the dam as determined from gate settings plus leakage estimated based on piezometric readings at the dam, spills, and an estimated contribution from springs. Outflow was defined as water diverted to Carrier Pipes I and II plus diversions to the Swalha Canal and the to the KAC at Abu Zeighan, plus water delivered to farmers along the Zarqa River. The monthly

conveyance efficiency was computed as the ratio of outflow to inflow in percent.

For the dry season from April to September, the monthly average efficiency are tabulated below. This table indicates conveyance losses in the range of 15 to 21 percent.

Year	Conveyance Efficiency (%) Monthly Range	Monthly Average
1990	78-91	85
1991	69-90	79
1992	59-91	81
1993	72-92	86

4. SUMMARY OF PRIOR STUDIES OF WATER QUALITY

The JVA's Directorate of Laboratories, Soil and Environment is collecting water quality data from about 65 to 70 stations on the King Abdullah Canal, the side wadis, the Zarqa River, at various reservoirs, and on canals carrying flows from weirs or outflows from treatment plants. Some special water quality monitoring studies on problematic reaches have also been undertaken by the Irrigation Department of the JVA. The reports are in Arabic and there was insufficient time to translate and review these studies prior to the submittal of this Inception Report. However, the titles of the reports and a description of the data included in these reports are identified in Section 2.

5. PRELIMINARY REVIEW AND ANALYSIS OF DATA

A preliminary review of the conveyance efficiency and water quality data was performed to assist in the finalization of the work plan. A more complete analysis of the data will be performed in the next part of the study which will result in the Comprehensive Survey Report.

5.1 Channel Efficiency

The Operation Division of JVA suspected conveyance losses in the Zarqa River channel as early as 1980 when a first attempt was made to define these losses. Through 1994, six additional studies have been performed to confirm the existence of losses, to determine the magnitude of the losses, and to locate the reaches within which any losses occur. These studies are summarized in Section 3.

Each of the studies has some limitations and, therefore, the results are not conclusive; however, with an understanding of the limitations, a valid determination of the existence of losses can be made. All of these studies will be critically evaluated during Part 2 of this study and discussed in our Comprehensive Survey Report. Based on a cursory review of these data, it appears that each study indicated minor losses over the entire reach of river. In the upper reach of the river, both gains and losses were indicated; however, both the gains and losses were within the accuracy of the measurement procedures. Somewhat higher losses were evident in the lower reach, from Al Thahab Weir to Abu Zeighan Weir in all except the Harza (1989) study which indicated gains in the lower reach. This lower reach is also the reach where the springs enter the river.

As a result of the Part 1 reconnaissance, it is initially concluded that the type of channel existing in the upper reach does not allow deep percolation. The general consensus of the operations personnel of the JVA is that losses do not occur in the upper reach. The losses identified in the previous studies may be due to flow measuring limitations and/or pumping from the river. However, the available hydrogeological data/information and geologic field reconnaissance of the area will define the ground water regime which will help to confirm the water loss or gain. The hydrogeological investigations have been initiated.

In the lower reach of the river between Al Thahab and Abu Zeighan, there is a general consensus among the JVA personnel that losses do occur. All the previous studies except that by Harza/Arabtech, show losses in these reaches. During the Harza/

Arabtech investigations, on some days of measurements, spilling from irrigation channels was noticed. There are springs in these reaches which also may have contributed to the gains. The gains or losses in this lower reach will be redefined after the hydrogeological investigations.

As a result of the collection of the measurement data for each of the studies, it should now be possible to assess the relative merits and deficiencies of each of the studies and reach a conclusion concerning the magnitude and location of losses.

5.2 Water Quality

The water quality data collection efforts for this study have been oriented towards the data for the Zarqa River and for the stations at which the water quality is affected by the outflow from Zarqa. Generally, weekly samples of water quality are taken and analyzed. In addition, at some stations, daily sampling has been reported. The data for the following stations are considered appropriate to study the Zarqa River water quality and its impact.

1. Releases from King Talal Dam (KTD).
2. Abu Zeighan Canal.
3. King Abdullah Canal Swalha (KAC-Swahla) represents the flow in the King Abdullah Canal at the Zarqa siphon.
4. King Abdullah Canal Maadi (KAC-Maadi) represents flow in the King Abdullah Canal downstream from the Abu Zeighan Weir.

The water quality parameters measured include, for various programs, Electric Conductivity (EC), Acidity (pH), Chloride ions (Cl), Sodium ions (Na), Boron (B), Carbonates (HCO3), Nitrates (NO3) and the sodium absorption ratio (SAR).

A preliminary review of the data shows that the quality of the releases from KTD deteriorates between KTD and the Abu Zeighan Weir. In Table 1, which presents the results of water quality

measurements between June and October 1993 and April and June 1994, and Table 2, which presents EC and pH data for January through July 1995, it is evident that the electroconductivity (EC) increases from King Talal Dam to the Abu Zeighan Weir. Table 3, which presents monthly average values of EC, confirms the deterioration over a longer period of time.

More importantly, Tables 1 and 2 also show that the water in the KAC below the Zarqa River (KAC-maadi) is of the same poor quality as the Zarqa River water. Over the last several years, more of the Yarmouk River water has been diverted to Amman for municipal and industrial (M&I) purposes and, therefore, the mixing of the better quality water from the Yarmouk River with the poorer quality Zarqa River water does not occur in the summer months. This operation is confirmed in Table 4 which shows that, from April through September 1994, almost all of the water in the KAC was diverted from the Zarqa River at the Abu Zeighan Weir.

The effect of diverting more water to Amman for M&I use and the resultant deterioration of the water supplied to the lands south of the Zarqa River is to jeopardize the viability of these irrigation systems. As it cannot be expected that the diversions to Amman will be reduced in the future, every effort must be taken to improve the quality of water taken from the Zarqa River.

A special study was performed by the Directorate of Irrigation which consisted of measuring EC and pH at 25 locations between the Thahab Weir and the Abu Zeighan Weir. The location of these water quality stations is shown on Figure 1. In addition, where possible, estimates of spring flow were measured. The results of this study are presented in Table 5. Included in this table are water quality information for two relatively large saline springs, Man Spring and Women Spring. Based on this study, it was estimated that the total spring flow in the study reach was about 190 l/s although not all of the springs were saline. The data presented in the table definitely show significant deterioration in the quality of the river flow after mixing with the flows from the various springs.

There is substantially more data available. These data are being analyzed and will be discussed in the Comprehensive Report. However, it can be concluded from this preliminary analysis that the major deterioration of the Zarqa River water occurs in the reach between the Hwaret Weir and the Abu Zeighan Weir. Based on an initial consideration of the location, type, and flows of the springs, it may be easier to divert fresh water flows around the saline lower reach than to control and remove the saline water.

6. SITE RECONNAISSANCE

The site reconnaissance consisted of three trips to the project area. On April 13, 1995, the Harza and CC staff and a staff member from the Irrigation Department visited the area between Thahab Weir and Abu Zeighan Weir. On April 18, the team visited King Talal Dam and the upstream reach. On April 20 and 21, the geologist and hydrogeologist inspected the entire reach below King Talal Dam.

6.1 April 13th Inspection

The project team visited the JVA Soil and Water Laboratory to discuss the water quality monitoring program in the Zarqa basin, to determine what quality data are available, and to obtain their opinions as to the quality situation in the Zarqa River and how it might be improved. The Operation and Maintenance Section also was visited to obtain information on the releases from KTD, diversions into Carrier Pipes I and II, and diversions into the KAC. The team then went to Thahab Weir and proceeded downstream to Hwaret Weir and along the Zarqa River in the area of the springs and seeps.

For water quality data, there exists periodic measurements that have been averaged into monthly values, and special studies. These data for the three years 1992,93, and 94 have been collected. Monthly and annual water balance information has been collected for 1992, 93, and 94; and daily values have been collected for the period August 1993 through September 1994.

These data are presented and discussed in other sections of this Inception Report.

During the inspection of the river, the flow below Thahab Weir was 1.03 m^3/s according to the monitoring facilities in the Operation and Maintenance Office. At this flow, it was not possible to identify all of the springs that had been located in earlier studies. However, the Man and Woman springs were easily identifiable as were several other relatively large springs. In addition, many short reaches along the river showed evidence of seepage from the banks.

Several issues and ideas were discussed with the JVA and Irrigation Department Staff:

> There do not appear to be any losses in the Zarqa River reach between KTD and the Thahab Weir. It is difficult to quantify the losses with accuracy because the identified losses and gains are well within the accuracy of the input data including releases from KTD, evaporation, uses along the canal, and spring flows. There appears to be a consensus, however, that losses do occur downstream of the Thahab Weir.
>
> There is very little water quality degradation between the Thahab Weir and the Hwaret Weir.
>
> Attempts to cap a salt spring resulted in the occurrence of many smaller springs and seeps although the total saline water inflow did not increase.
>
> A pipe conveying water over the entire reach of the river below King Talal Dam might be detrimental because of the loss of the natural purification of water that occurs as the water is conveyed in the channel.
>
> The initial reaction of the Team was that it would be easier to divert the fresh water around the reach from which the saline water emanates than it would be to control and remove the saline water.

6.2 April 18th Inspection

On April 18th, the Project Team visited King Talal Dam and walked the upper reaches of the Zarqa River to inspect the channel area, to look for lands irrigated directly from the river, and to investigate the possibilities for the construction of a pipeline or other channel improvements to improve channel efficiency. The inspection started immediately below the dam and ended at the quarry area of the Jordan Cement Factory, which is about two kilometers below the recent slide across the Zarqa River and, according to a worker at the quarry, about a one-hour walk upstream from the Thahab Weir.

The upper reach of the Zarqa River consists of a steep-sided valley that has many indications of instability. The channel has been downcut through sandstone and limestone formations and consists of gravel, sands, and silt. The river bed is typically alluvial with bed material consisting of gravel, sand and coarse to fine silt. This type of bed generally does not allow deep percolation and the occurrence of significant losses does not seem likely.

Construction of a pipeline at river level up out of the flood plain would be very difficult over the entire reach. Providing access and excavating stable slopes will be very expensive. As an alternative, the possibility of aligning the pipeline along higher ground was considered. This alternative would require that the existing powerplant be abandoned as the head of the reservoir would be required to raise the water to the higher elevations. Over about one-third of the distance, construction of the pipeline would be relatively easy; however, over the remaining distance, the same steep conditions would prevail. These options will be considered in more detail during the next parts of the study.

Near the dam, there were not many lands identified that were irrigated out of the river. As the team proceeded downstream, two pumps were located and there could have been more, especially

downstream of the landslide where on the left bank significant irrigated agriculture is practiced. Also, there is a possibility of small springs in this reach.

6.3 April 20th - 23rd Inspection

A three-day inspection was performed by the geologist and hydrogeologist to identify the different geological lithologies exposed on both banks of the river. The inspection was performed over the reach from the Khayyof area, which is located about 7 km downstream from King Talal Dam, to the Abu Zeighan Weir. During the inspection the following observations were noted:

6.3.1 Stratigraphy

Four formations were noted along the river. From the dam to about kilometer 5 and from kilometer 8.5 to kilometer 14, the Jurassic Azab Formation was in evidence. The top part of this formation, consisting of interbeded yellowish brown marls and brown hard dense dolomite limestone, is exposed over these reaches. In between kilometer 5 and kilometer 8.5, the Triassic Main formation is exposed consisting of shales, marles, and marley limestones and thick bedded massive and crystalline white to grey limestone with gypsiferous shaley bands. Up out of the riverbed, Lower Cretaceous sandstone overlies the Jurassic sediments.

Recent Unconsolidated Sediments formation , consisting of fluviatile, colluvial and residual deposits of unsorted coarse and fine clastic deposits occur in the channel or on either bank where they form a mantle varying in thickness from a few centimeters, when the bedrock is exposed, to more than 20 meters. These deposits consist of gravel, sand, silt, and clay with pebbles and boulders of sandstone and limestone.

Many landslides were identified during the field survey ranging from small to very large. Maps showing the location and extent of these landslides will be prepared in the Conceptual Studies (Part 3).

6.3.2 Hydrogeology and Groundwater Movement

Between the Khayyof area and Thahab Weir, some freshwater seepage was noted from the alluvial deposits. The quantity is small and the expected source is infiltrated rainfall. It appears that the water used for irrigation would exceed the seepage inflow. Between the Thahab Weir and the Abu Zeighan Weir, both the quantity of water withdrawn directly form the river and the quantity of the spring flow increase. The net change could be either an increase or a decrease. It appears that most of the seepage and spring flow is saline and thermal, and discharges under artesian conditions.

The electrical conductivity (EC) of the river water was noted to increase form about 1,280 mmohs/cm at Thahab to 1,370 mmohs/cm upstream from the saline springs to about 2,550 mmohs/cm at the Abu Zeighan Weir. The EC of some of the springs varied from 4,000 mmohs/cm to 8,000 mmhos/cm.

Many springs of good quality originate in the Kurnub Sandstones which are exposed at high elevations on both sides of the river. Most of these springs disappear during the summer season indicating that the springs are recharged locally from rainfall on the area.

There are also many springs emerging from the wadi deposits downstream of Thahab Weir which are of poor quality and are considered to be of artesian nature originating from the Lower Aquifer Complex. This complex has been encountered in a few deep boreholes at greater depths in the eastern part of Jordan and in many recently drilled wills in the foothills of the Jordan Valley. The wells are artesian and the water discharging from the wells has EC values ranging from 1,000 mmohs/cm to 12,000 mmohs/cm and temperatures ranging from 30°C to 56°C. In Part 3, Conceptual Studies, a hydrodynamic pattern of the Lower Aquifer Complex will be defined.

7. PROBLEMS ENCOUNTERED OR FORESEEN

The emphasis of the scope of work has shifted from providing solutions to the problem of water losses in the Zarqa River channel to a dual objective of improving the water quality of the deliveries to the King Abdullah Canal and reducing water losses. While this will not impact the cost or schedule of the assignment, it might require some changes in personnel and more assistance from DAI water quality staff. Any changes in personnel will be approved according to the contractual regulations.

8. PROGRAM OF WORK

As a result of initial meetings with the DAI, the JVA, and the Directorate of Irrigation, our review of the data collected during Part 1 of Phase A, and our reconnaissance of the Zarqa River between King Talal Dam and the Abu Zeighan Weir, a work plan for the accomplishment of the studies has been finalized. A schedule for the performance of each of the tasks and the responsible organization is presented as Figure 2. It should be noted that some of the schedules and identification numbers for the tasks have been changed from the proposal. For reference, the proposal task numbers also are shown on the work plan schedule. A schedule for the participation of Harza's staff in Parts 1,2, and 3 of Phase A and Phase B is presented on Figure 3. 2. The task and personnel schedules for Phase B are preliminary and subject to the date of the Notice to Proceed for the feasibility study.

8.1 Phase A, Part 1 Data Collection

Part 1 consists of initial meetings, data collection and a site reconnaissance. The data collection activities were performed over a 30-day period in April 1995 by Harza and CC staff. The activities associated with the tasks included in Part 1 and the results of the tasks are discussed in prior sections of the report. The deliverable for Part 1 is this Inception Report.

8.2 Phase A, Part 2 Data Evaluation

Part 2 consists of an evaluation of the data related to the efficiency of conveyance and the contribution of freshwater and saline springs and seeps to the flow in the river. Although preliminary analysis has been performed during the Part 1 activities, a rigorous analysis will be performed by Harza in Chicago in May, 1995.

In the work plan presented with the proposal, an option for additional data collection was included if sufficient data were not available to make the required estimates of conveyance efficiency. After a review of the available information and discussions with personnel from the Directorate of Irrigation and the JVA, it appears that the data collected are almost sufficient; however, it is anticipated that a short-duration, intense data collection program occurring after the comprehensive report will be advantageous.

We have concluded that a major data collection program using automatic water level recorders will not be required. The installation of water level recorders, in our opinion, will not significantly increase the accuracy of the flow measurements.

The collection program will consist of taking flow measurements at selected locations in order to define reasonably accurate locations of losing or gaining reaches in the river. The selection of the reaches will be made after a definition of the ground water regime is completed. Temporary staff gages (removed after a measurement) will be used to monitor any change in the river level during the measurement. Although the staff at King Talal Dam will be requested to keep a constant release, the hourly release data will be obtained to check the consistency of releases after the measurements are completed.

On Figure 1, the work plan schedule, the activity for measurement has been included in mid-summer. The measurement program will be performed by the Harza's Lead Engineer working with CC staff. Staff from the Irrigation Department will be invited to participate.

Based on the assessment of channel efficiency and water quality, a Comprehensive Survey Report will be prepared describing the channel conveyance conditions and the impact of any saline and freshwater springs on the flow in the river. The report is scheduled for submittal on May 31, 1995. The results of the additional monitoring program will be added as an addendum to the Comprehensive Report.

8.3 Phase A, Part 3 Selection of a Preferred Alternative

The selection process will begin with the identification of alternatives to accommodate the issues exposed during the data evaluation and reported in the Comprehensive Survey Report. Once identified, conceptual designs will be developed to permit a comparison of alternatives and the selection of a preferred alternative. The conceptual designs will be performed by CC with assistance from Harza. The comparison and recommendation of a preferred alternative will be done by Harza and CC.

Part 3 will begin with the identification of alternatives during the preparation of the Comprehensive Survey Report and terminate with the submittal of a draft Conceptual Studies Report at the end of August, 150 days after the start of the study and 90 days after the submittal of the Survey Report.

During Part 3, Harza's Lead Civil Engineer and a second Civil Engineer will come to Jordan to assist CC in the start of the conceptual design studies and to check and confirm the studies about two-thirds of the way through the studies. The Lead Civil Engineer also will participate in the preparation of the Conceptual Studies Report. CC will complete the first draft of the report and submit it to Harza for review. After incorporating Harza's comments, the draft will be submitted to the Ministry and USAID for comment. Harza's Project Manager will come to Jordan to discuss the report with the Ministry and USAID, receive their comments, and finalize the report.

Although a complete analysis of the data has yet to be performed, it appears that any channel losses in the Zarqa River occur below the Tel El Thahab Weir and probably below the Hwaret Weir. Prior to the data analysis, the identified alternatives are:

- Diverting Zarqa River flows at the Hwaret Weir to bypass the saline springs and seeps. The flows would by conveyed to the Abu Zeighan Weir or directly to the King Abdullah Canal (KAC) through a pipeline or by way of the Swalha Canal, which is partially destroyed.

- Collecting an transporting the saline flows away from the Zarqa River for evaporation or disposition below the KAC.

- Eliminating losses in the Zarqa channel through improvements to the channel or by constructing a pipeline.

- The inclusion of power generation in the project as one of two options. First, generating units could be added to the any pipeline in place of energy dissipation facilities. Second, the provision of a regulating reservoir at the Abu Zeighan Weir would permit flexibility of operation of the existing powerplant at King Talal Dam.

- No action.

Once the alternatives have been identified, a description of these alternatives will be submitted to the Ministry and USAID for approval. Additional alternatives can be added by the Ministry staff at this time. Concurrent with the Ministry review, the base-line studies for the evaluation of the alternatives will be started. These studies will include the hydrologic analysis, reservoir operations, the definition of geologic conditions, the definition of the dynamic pattern of the Lower Aquifer Complex and the implications of the alternatives on the groundwater regime.

For each of the alternatives, a conceptual design will be performed which will include the sizing of each of the major components and the estimation of construction, operation, and maintenance costs. The costs will be estimated to permit a comparative evaluation of all of the alternatives. In addition, as a part of the conceptual design studies for each alternative, the production of each alternative will be quantified in terms of the amount of water saved, the improvement to the quality of water delivered to the King Abdullah Canal, and the amount of energy generated. Also, to assist in the comparison of alternatives and the selection of a preferred alternative, an implementation schedule will be developed for each alternative and a preliminary identification of environmental impacts will be provided.

All of the information developed as a part of the Conceptual Design studies will be documented and presented to facilitate a comparison of alternatives and the selection of a preferred alternative. The documentation of the comparison studies will be presented in the Conceptual Studies Report with a recommendation by Harza and CC for the preferred alternative. As a result of the review of the draft report by the MWI and USAID, and ensuing discussions with the Project Team, a preferred alternative will be selected.

8.4 Phase B Feasibility and Environmental Assessment

The feasibility and environmental assessment will essentially be the responsibility of Harza. Assistance will be provided by CC in the performance of the environmental assessment and, if necessary, in the performance of field studies. Phase B will require 90 days to deliver a draft report on the preferred alternative and about seven additional weeks to complete the review process and finalize the report. Submittal of the final report is expected in early March, 1996. A Harza Scientist will be in-country for about five weeks to perform the environmental assessment. Harza's Project Manager will return to Jordan to discuss the contents of the report and receive the comments of the MWI and USAID. The report will be finalized in Chicago.

The feasibility study will be initiated upon receipt of a notice to proceed. It is expected that this notice will be provided at the conclusion of the discussions of the Conceptual Studies Report.

The environmental studies and any required field investigations will be performed first. The environmental assessment will be performed in accordance with the appropriate USAID regulations and consist of a scoping session and the assessment itself. The scoping session will result in a report that will:

- Identify the scope and significance of issues to be analyzed,
- Identify issues that are not significant,
- Include a specific work plan, and
- Describe how the analysis will be conducted.

The environmental assessment will be reviewed by USAID's Environmental Coordinator and included in the feasibility report as an appendix.

The field investigations will include topographic surveys and geologic inspections that are needed to perform the feasibility-level and preliminary designs.

The feasibility-level designs will be performed to permit the development of capital and O&M costs. These costs will be used in the economic and financial analyses. The economic analysis will result in the development of economic parameters including benefit cost ratio and internal rate of return. The financial analysis will result in the development of funding requirements, a cash flow, and an estimate of financial feasibility.

The preliminary design will be performed to develop basic design criteria in accordance with internationally accepted codes and standards. The establishment of design criteria will depend on the alternative selected. Preliminary design drawings including

plans and sections for all elements of the alternative will be prepared including any features necessary for the mitigation of adverse environmental impacts.

A report will be prepared to summarize the results of the technical, economic, financial, and environmental studies. The detailed study results will be attached as appendices to the main report.

TABLES

Table 1

WATER QUALITY MEASURED AT VARIOUS LOCATIONS

		QUALITY PARAMETERS				
DATE	Location	EC (mmhos/cm)	PH	NA (mg/l)	CL (mg/l)	B (ppm)
6.8 93	D/S KTD	2.03	7.79			
	El Thahab	1 93	7 85			
	Swalha Bridge	2.04	7.78			
	Abu Zeighan	2.83	7.84			
	KAC Maadi	2 04	7.78			
6 10.93	D/S KTD			7.71	8 29	0.94
	Swalha Bridge			8 80	8.81	0.57
	KAC Maadi			13.75	13 46	0.70
6 22 93	D/S KTD	1.87	7.71	8 00	8.08	0.54
	El Thahab	1.83	7.98			
	Swalha Bridge	1.88	7.78	8.00	8.78	0 58
	Abu Zeighan	2 60	7.73			
	KAC Maadi	2 60	7.77	12.92	13 07	0.70
6.29.93	D/S KTD	2 04	7.80			
	El Thahab	1 93	7.94			
	Swalha Bridge	2 02	7.80	8.40	8 32	0.62
	Abu Zeighan	2.88	7.80			
	KAC Maadi	2.88	7.84	14.17	13.95	0.77
7.6.93	D/S KTD	2.09	7 89	7 71	7.88	0.52
	El Thahab	1.94	8 00			
	Swalha Bridge	1.98	7 89	8.00	8.62	0.48
	Abu Zeighan	2 42	7 88			
	KAC Maadi			10.00	9.22	0 60
7 13.93	D/S KTD	1.97	7.97	8 00	8 29	0.63
	El Thahab	1.95	8 19			
	Swalha Bridge	2.02	8 18	9 33	9.06	0.66
	Abu Zeighan	2.43	7 97			
	KAC Maadi	2.43	8.09	15.50	14.79	0.94
7.20 93	D/S KTD	2.07	7 79	9 00	8 28	0.66
	El Thahab	2.05	8 07			
	Swalha Bridge	2.20	7.99	9 33	8 60	0.75
	Abu Zeighan	2.82	7 98			
	KAC Maadi	2.78	7 97	12.50	12.02	0.70
7 27 93	D/S KTD	2.04	7 88	9 33	9 16	0 62
	El Thahab	1.92	8.18			
	Swalha Bridge	2 21	7.63	8.67	9 26	0.56
	Abu Zeighan	2.82	7.82			
	KAC Maadi	2.82	7.86	12 08	12.96	0 71

Table 1 (cont.)

QUALITY PARAMETTERS

DATE	Location	EC (mmhos/cm)	PH	NA (mg/l)	CL (mg/l)	B (ppm)
	El Thahab	1.89	8 17			
	Swalha Bridge	2 03	7 86	11.25	9.26	0.53
	Abu Zeighan	2 17	8.15			
	KAC Maadi	2.17	8.17	9 67	12 96	0.67
8.1.93	D/S KTD					
	El Thahab	1.96	8 20			
	Swalha Bridge	2.11	7.90	10.00	10.02	0 61
	Abu Zeighan	2.17	8.18			
	KAC Maadi	2 17	8 18	12.08	12.78	0.66
8.17 93	D/S KTD	2.16	7.83	10 80	9.26	0.76
	El Thahab	1.94	8 12			
	Swalha Bridge	2.22	7.97	10.00	11 11	0.80
	Abu Zeighan	3 24	7 90			
	KAC Maadi	2.72	7.96	14.00	12.96	0 90
8 24.93	D/S KTD	2.20	7.62	10.80	10.19	0 72
	El Thahab	2.13	8.11			
	Swalha Bridge	2.27	7.86	10 60	10.19	0.73
	Abu Zeighan	2.96	7 83			
	KAC Maadi	2.62	8.00	14 53	12 87	0.87
8.31 93	D/S KTD	2 22	7.73			
	El Thahab	2.08	8 08			
	Swalha Bridge	2.22	7 81	10.80	10.19	0 73
	Abu Zeighan	2.74	7.74			
	KAC Maadi	2.72	7 90	13.40	11.11	0.82
9.7.93	D/S KTD	2 30	7.77	10.31	12 04	0.75
	El Thahab	2 07	8.09			
	Swalha Bridge	2.16	7.96	13 07	13.89	0 87
	Abu Zeighan	2.76	7.90			
	KAC Maadi	2.29	8.00	11.23	9.26	0 67
9.14.93	D/S KTD	2.06	8.23	10 66	11.11	0 65
	El Thahab	2.16	8.09		-	
	Swalha Bridge	2.34	7.80	10 89	9.26	0.71
	Abu Zeighan	2 99	7 82			
	KAC Maadi	2 61	8.00	14.17	10.19	0.82
9.21.93	D/S KTD	2.28	7.89	10.00	11.11	0.90
	El Thahab	2 22	8.09			
	Swalha Bridge	2.36	8.00	10.66	9.45	0.66
	Abu Zeighan	2.92	7.86			
	KAC Maadi	2.68	8 00	13 33	10.19	0.74

Table 1 (cont.)

QUALITY PARAMETERS

DATE	Location	EC (mmhos/cm)	PH	NA (mg/l)	CL (mg/l)	B (ppm)
9.28.93	D/S KTD					
	El Thahab	2.40	8.16			
	Swalha Bridge	2.52	8.16	10 83	10.19	0.67
	Abu Zeighan	2.93	7 80			
	KAC Maadi	2 75	7.98	12.50	9.26	0.59
10.5.93	D/S KTD	2.30	8.00	11.30	10.28	0 38
	El Thahab	2.28	8.38			
	Swalha Bridge	2.34	8 33	11.30	11 11	0.54
	Abu Zeighan	2 90	7 90			
	KAC Maadi	2 90	8.38	14.16	13.89	0.60
10.12.93	D/S KTD	2.40	7.88			
	El Thahab	2 44	8.35			
	Swalha Bridge	2 52	8.06	11 36	12 44	0.54
	Abu Zeighan	3 04	7 81			
	KAC Maadi	3.02	8 00	14 09	16.66	0.67
10.19.93	D/S KTD	2.36	8.35	12 08	12.04	0 36
	El Thahab	2.33	8 21			
	Swalha Bridge	2 43	8.19	12.92	11.60	0.54
	Abu Zeighan	3.28	7.92			
	KAC Maadi	2 00	8 28	15.55	15.60 --	
10 25.93	D/S KTD	2 41	7 80	10 83	12.70	0.42
	El Thahab	2.37	8 07			
	Swalha Bridge	2 46	8.07	11.66	12.10	0.55
	Abu Zeighan	3 02	7.84			
	KAC Maadi	2.41	8 06	14.28	16.70	0.70
4.6.94						
	D/S KTD	1 94	7 77			
	EL THAHAB WEIR	1.90	8.05			
	BRIDGE WITH PIPE	1 94	7 90			
	ABU ZEIGHAN	2 59	7 60			
	KAC,MAADI	2 54	7 82			
4.7 94	D/S KTD			8.00	8.28	0 68
	BRIDGE WITH PIPE			8.22	8.29	0 58
	KAC,MAADI			11 67	11.21	0 66
	KAC,SWALHA	0 89	8 05			
	WOMAN SPRING	8.73	6 66	47.00	41.49	2.50
	MAN SPRING	7 92	6.49	45.00	37.44	2 70
4.13.94	D/S KTD	1.97	7 83			
	EL THAHAB WEIR	1 96	7.98			
	BRIDGE WITH PIPE	2 02	7 78			
	ABU ZEIGHAN	2 67	7 66			
	KAC,MAADI	2 55	7 81			

Table 1 (cont.)

QUALITY PARAMETERS

DATE	Location	EC (mmhos/cm)	PH	NA (mg/l)	CL (mg/l)	B (ppm)
4.14.94	D/S KTD			8.00	8.15	0.49
	BRIDGE WITH PIPE			8 22	9.16	0 44
	KAC,MAADI			11 67	12 22	0.52
4.20.94	D/S KTD	1.92	7.79			
	EL THAHAB WEIR	1.82	8.00			
	BRIDGE WITH PIPE	1.88	7 87			
	ABU ZEIGHAN	2.48	7.69			
	KAC,MAADI	2.45	7.79			
	WOMAN SPRING	8.99	6.75			
	MAN SPRING	8.00	6 60			
	KAC,SWALHA	0.95	8.06			
4 21.94	D/S KTD			8 22	8.21	0.50
	BRIDE WITH PIPE			8.22	8.85	0 47
	KAC,MAADI			12.72	12.50	0 49
4 28.94	D/S KTD	1.95	7.84	8 00	8.25	0.72
	EL THAHAB WEIR	1 95	7.96			
	BRIDGE WIYH PIPE	1.98	7 82	8.22	8.80	0 81
	ABU ZEIGHAN	2 66	7.64			
	KAC,MAADI	2 64	7.79	12 18	12.11	0 84
5.4.94	D/S KTD	1.92	7.95			
	EL THAHAB	1.85	8.00			
	BRIDGE WITH PPE	1 87	7.81			
	ABU ZEIGHAN	2.59	7.69			
	KAC,MAADI	2.59	7.79			
5.5.94	D/S KTD			8.00	8.26	0 63
	KAC,MAADI			12 22	12 26	0.52
	WOMAN SPRING	8.33	6.59			
	MAN SPRING	7.40	6.52			
	KAC, SWALHA	0 92	8.06			
5.11.94	D/S KTD	1 93	7.88			
	EL THAHAB WEIR	1.88	7.96			
	BRIDGE WITH PIPE	1 93	7.74			
	ABU ZEIGHAN	2.68	7 66			
	KAC,MAADI	2.60	7 81			
5 12.94	D/S KTD			8 00	8 00	0.28
	BRIDGE WIYH PIPE			8.67	8.62	0.29
	KAC MAADI			12 22	12 26	0.52
5.18.94	D/S KTD	1 94	7 71			
	EL THAHAB	1 90	8 00			
	BRIDGE WITH PIPE	2.00	7 77			
	ABU ZEIGHAN	2.82	7 64			
	KAC.MAADI	2.68	7.75			

Table 1 (cont.)

QUALITY PARAMETERS

DATE	Location	EC (mmhos/cm)	PH	NA (mg/l)	CL (mg/l)	B (ppm)
5.19.94	D/S KTD			8.67	9.47	0.22
	BRIDGE WITH PIPE			8.67	9.47	0 25
	KAC,MADI			12.18	12 89	0 61
	WOMAN SPRING	8 66	6 50			
	MAN SPRING	7.97	7 55			
	KAC,SWALHA	0.97	8.06			
5 26.94	D/S KTD	1 99	7.84	7.67	8.56	0 23
	EL THAHAB	1.90	8 00			
	BRIDGE WITH PIPE	1 99	7 80	8.22	9.17	0 38
	ABU ZEIGHAN	2.89	7 70			
	KAC,MADI	2 80	7 80	12.64	14 07	0 60
6 1 94	D/S KTD	1.92	7 77			
	EL THAHAB	1 80	8.00			
	BRIDGE WITH PIPE	1.86	7.82			
	ABU ZEIGHAN	2.66	7 68			
	KAC,MAADI	2.66	7.86			
6.2.94	D/S KTD			8.00	8.45	0.73
	BRDGE WITH PIPE			8.67	9.22	0.55
	KAC,MADI			12.64	12.97	0.60
	WOMAN SPRING	8 85	6 47			
	MAN SPRING	7.73	7 42			
	KAC,SWALHA	0 92	7 96			
6 11 94	D/S KTD			8.00	8.16	0 65
	BRIDGE WITH PIPE			8.80	8.76	0.50
	KAC,MAADI			12.08	12.88	0.78
6 15. 94	D/S KTD	1 95	1 73			
	EL THAHAB	1.84	7.92			
	HRIDGE WITH PIPE	1.93	7.70			
	ABU ZEGHAN	2.21	7 66			
	KAC,MAADI	2.20	7 74			

Table 2

DAILY WATER QUALITY DATA

	DOWNSTREAM FROM KTD		KAC, SWALHA		ABU ZEIGHAN WEIR		K. ABDULLAH CANAL		MAADI	
	EC (mmhos/cm)	PH	EC (mmhos/cm)	PH	EC (mmhos/cm)	PH	EC (mmhos/cm)	PH	EC (mmhos/cm)	PH
APR 1993										
1	1.63	8.30	0.81	8.36	1.69	8.30	1.70	8.32	1.29	8.33
2										
3	1.63	8.29	0.83	8.34	1.68	8.29	1.68	8.30	1.59	8.30
4	1.59	8.30	0.82	8.35	1.66	8.30	1.24	8.31	1.74	8.30
5	1.59	8.30	0.82	8.30	1.73	8.30	1.34	8.31	1.34	1.31
6	1.61	8.30	0.82	8.26	1.59	8.30	1.32	8.33	1.68	8.30
7	1.61	8.29	0.83	8.35	1.69	8.29	1.41	8.31	1.73	8.30
8	1.58	8.28	0.83	8.20	1.51	8.28	1.29	8.30	1.37	8.30
9										
10	1.58	8.29	0.83	8.34	1.73	8.29	1.52	8.34	1.68	8.34
11	1.60	8.21	0.84	8.32	1.66	8.28	1.41	8.29	1.39	8.29
12	1.60	8.25	0.86	8.33	1.71	8.29	1.69	8.31	1.69	8.31
13	1.57	1.28	0.82	8.33	1.72	8.29	1.72	8.33	1.72	8.32
14	1.59	8.27	0.86	8.30	1.68	8.27	1.68	8.27	1.71	8.27
15	1.57	8.27	0.89	8.30	1.54	8.27	1.68	8.27	1.67	8.27
16										
17	1.57	8.27	0.85	8.30	1.65	8.28	1.47	8.27	1.68	8.28
18	1.62	8.27	0.87	8.30	1.68	8.27	1.49	8.27	1.71	8.30
19	1.58	8.29	0.86	8.33	1.69	8.29	1.67	8.33	1.69	8.32
20	1.55	8.29	0.85	8.31	1.65	8.29	1.64	8.30	1.64	8.30
21	1.59	8.69	0.81	8.33	1.69	8.69	1.69	8.21	1.79	8.20
22	1.57	8.29	0.88	8.32	1.69	8.29	1.69	8.30	1.69	8.30
23										
24	1.52	8.29	0.79	8.30	1.69	8.26	1.62	8.30	1.52	8.30
25	1.54	8.30	0.86	8.32	1.63	8.30	1.63	8.32	1.63	8.32
26	1.56	8.29	0.83	8.32	1.66	8.29	1.65	8.32	1.66	8.32
27	1.52	8.30	0.85	8.33	1.66	8.30	1.67	8.33	1.66	8.31
28	1.50	8.29	0.82	8.32	1.64	8.29	1.65	8.32	1.69	8.32
29	1.52	8.31	0.84	8.35	1.62	8.30	1.66	8.32	1.66	8.31
30										
MAY 1993										
1										
2										
3	1.53	8.31	0.82	8.33	1.68	8.30	1.72	7.32	1.68	8.31
4	1.55	8.30	0.85	8.32	1.67	8.30	1.73	8.32	1.72	8.32
5	1.59	8.30	0.86	8.32	1.77	8.30	1.88	8.32	1.81	8.32
6	1.55	8.38	0.87	8.32	1.65	8.28				
7										
8	1.55	8.30	0.88	8.34	1.69	8.30	1.68	8.32	1.56	8.31
9	1.49	8.28	0.82	8.33	1.64	8.28	1.63	8.33	1.70	8.33
10	1.55	8.30	0.87	8.30	1.66	8.29	1.63	8.31	1.60	8.30
11	1.53	8.28	0.86	8.32	1.70	8.28	1.70	8.33	1.71	8.32
12	1.52	8.30	0.82	8.33	1.66	8.30			1.65	8.33
13	1.57	8.29	0.92	8.33	1.70	8.28	1.77	8.33	1.73	8.32
14										
15	1.60	8.30	0.87	8.34	1.80	8.30	1.60	8.32		
16	1.57	8.30	0.88	8.34	1.73	8.30	1.73	8.32	54	8.32
17	1.58	8.30	0.94	8.34	1.79	8.30	1.80	8.32	1.79	8.31
18	1.58	8.30	0.92	8.33	1.78	8.30	1.79	8.32	1.79	8.32
19	1.55	8.30	0.84	8.33	1.83	8.30	1.88	8.32	1.79	8.32
20	1.57	8.30	1.00	8.33	1.81	1.29	1.82	8.32	1.83	8.32
21										
22	1.57	8.30	0.90	8.32	1.80	8.30	1.53	8.30	1.77	8.31
23	1.53	8.38	0.86	8.32	1.79	8.27	1.81	8.30	1.74	8.30
24	1.52	8.31	0.85	8.34	1.71	8.30	1.79	8.31	1.82	8.32
25										
26	1.56	8.30	0.85	8.34	1.84	8.30	1.86	8.32	1.89	8.32
27	1.54	8.30	0.87	8.35	1.82	8.30	1.79	8.33	1.91	8.32
28										
29	1.52	8.31	0.84	8.34	1.77	8.30	1.75	8.32	1.76	8.32
30										
31										

Table 2 (cont.)

	DOWNSTREAM FROM KTD		KAC SWALHA		ABU ZEIGHAN WEIR		K. ABDULLAH CANAL, MAADI			
	EC (mmhos/cm)	PH	EC (mmhos/cm)	PH	EC (mmhos/cm)	PH	EC (mmhos/cm)	PH	EC (mmhos/cm)	PH
JUN 1993										
1										
2										
3										
4										
5	1.58	8.32	0.88	8.35	1.87	8.32	1.85	8.34	1.87	8.33
6	1.58	8.31	0.86	8.35	1.83	8.30	1.89	8.24	1.89	8.32
7	1.58	8.30	0.88	8.34	1.83	8.30	1.88	8.33	1.85	8.31
8	1.54	8.30	0.85	8.34	1.81	8.30	1.81	8.32	1.81	8.31
9	1.58	8.31	0.89	8.34	1.85	8.30	1.87	8.32	1.85	8.31
10										
11										
12	1.53	8.31	0.85	8.34	1.78	8.30	1.79	8.31	1.79	8.31
13	1.56	8.29	0.88	8.34	1.88	8.29	1.88	8.30	1.81	8.30
14	1.57	8.29	0.85	8.32	2.25	8.26	2.17	8.26	2.20	8.26
15	1.57	8.34	0.88	8.32	2.06	8.24	2.06	8.24	2.17	8.24
16	1.59	8.28	0.82	8.31	2.15	8.18	2.13	8.18	2.20	8.18
17	1.57	8.26	0.87	8.31	2.10	8.17	2.12	8.18	2.12	8.18
18										
19	1.60	8.24	0.89	8.30	1.95	8.11	1.98	8.18	1.98	8.17
20	1.55	8.24	0.88	8.28	2.09	8.11	2.08	8.17	2.08	8.17
21										
22	1.51	8.24	0.85	8.26	1.99	8.11	2.02	8.16	2.02	8.16
23	1.55	8.22	0.85	8.23	2.17	8.00	2.11	8.14	2.11	8.14
24	1.55	8.18	0.86	8.18	2.40	8.00	2.40	8.02		
25										
26	1.57	8.18	0.89	8.23	2.02	8.00	2.02	8.06	2.04	8.06
27	1.56	8.16	0.87	8.18	2.11	7.95	2.11	8.09	2.12	8.09
28	1.46	8.19	0.80	8.28	2.10	8.00	2.08	8.09	2.12	8.07
29	1.53	8.19	0.87	8.27	2.11	8.09	2.14	8.14	2.14	8.14
30	1.60	8.20	0.83	8.28	2.32	8.06	2.27	8.18	2.33	8.17
JUL 1993										
1	1.63	8.19	0.92	8.20	2.16	8.06	2.01	8.14	2.16	8.14
2										
3	1.52	8.20	0.86	8.21	2.05	8.06	2.05	8.16	2.05	8.14
4	1.49	8.19	0.85	8.22	2.24	8.04	2.17	8.16	2.34	8.17
5	1.53	8.18	0.83	8.22	2.20	8.06	2.20	8.16	2.17	8.17
6	1.57	8.24	0.88	8.28	2.15	7.91	2.14	8.13	2.15	8.13
7	1.55	8.24	0.84	8.28	2.19	8.09	2.18	8.16	2.19	8.16
8	1.54	8.24	0.84	8.28	2.19	8.12	2.17	8.17	2.19	8.18
9										
10	1.50	8.26	0.85	8.28	2.04	8.05	2.04	8.17	2.04	8.17
11	1.51	8.28	0.83	8.39	2.11	8.08	2.11	8.17	2.11	8.16
12	1.55	8.27	0.86	8.29	2.21	8.08	2.21	8.17	2.21	8.17
13	1.57	8.27	0.88	8.29	2.13	9.07	2.13	8.18	2.13	8.17
14	1.60	8.25	0.87	8.29	2.21	8.04	2.21	8.18	2.21	8.18
15	1.52	8.22	0.90	8.26	2.20	8.04	2.16	8.15	2.17	8.16
16										
17	1.58	8.22	0.91	8.28	2.14	8.10	2.14	8.17	2.21	8.18
18	1.55	8.23	0.90	8.29	3.37	8.11	2.22	8.17	2.00	8.18
19	1.58	8.22	0.87	8.28	3.29	8.11	3.25	8.18	3.25	8.17
20	1.60	8.23	0.90	8.28	2.23	8.10	2.18	8.17	2.18	8.17
21	1.62	8.23	0.93	8.26	2.41	8.03	2.29	8.14	2.41	8.14
22	1.55	8.23	0.85	8.36	2.43	7.93	2.37	8.18	2.37	8.18
23										
24	1.59	8.21	0.91	8.23	2.33	8.10	2.33	8.16	2.36	8.14
25	1.53	8.30	0.85	8.24	2.25	8.08	2.25	8.13	2.25	8.13
26	1.54	8.21	0.88	8.24	2.13	8.00	2.14	8.13	2.15	8.12
27	1.53	8.20	0.88	8.22	2.39	7.80	2.29	8.14	2.39	8.13
28	1.57	8.16	0.84	8.23	2.14	7.86	2.14	8.13	2.19	8.20
29	1.48	8.15	0.84	8.16	2.43	7.88	2.18	8.09	2.43	8.14
30										
31	1.53	8.19	0.85	8.24	2.21	8.00	2.19	8.16	2.21	8.16

Table 2 (cont.)

	DOWNSTREAM FROM KTD		KAC, SWALHA		ABU ZEIGHAN WEIR		K. ABOULLAH CANAL MAADI			
	EC (mmhos/cm)	PH	EC (mmhos/cm)	PH	EC (mmhos/cm)	PH	EC (mmhos/cm)	PH	EC (mmhos/cm)	PH
JAN 1995							Morning		Afternoon	
1	2.29	7.40	0.84	8.48	5.45	7.50	1.95	8.27	0.93	8.43
2	2.38	7.49	0.85	8.40	6.60	7.33	0.89	8.40	0.85	8.35
3	1.93	8.22	0.78	8.43	6.11	7.56				
4	1.73	7.88	0.76	8.43	8.72	7.67	2.55	8.32		
5	1.41	8.19	0.79	8.46	2.18	7.87	1.97	8.14		
6										
7	1.25	8.29	0.83	8.44	2.02	7.17	2.02	7.87		
8	1.38	8.14	0.82	8.49	6.68	7.14	2.07	8.21	1.66	8.08
9	2.21	7.30	0.83	8.48	4.58	7.86	2.39	8.21	2.39	8.21
10	1.62	7.73	0.79	8.44	4.72	7.99	1.90	8.25	2.00	8.18
11	2.14	8.30	0.81	8.39	2.87	7.80	2.70	8.25	1.61	8.18
12	1.98	7.29	0.76	8.47	2.47	7.75	2.10	7.92	2.07	8.21
13										
14	1.94	7.46	0.78	8.49	2.58	7.85	1.84	8.11	1.69	8.39
15	1.63	7.60	0.81	8.48	3.79	7.41	0.83	8.44	0.83	8.41
16	1.24	8.24	0.87	8.44	2.56	7.54	0.85	8.37	0.86	8.46
17	1.80	7.42	0.78	8.46	2.19	7.64	0.78	8.45	0.80	8.35
18	1.44	7.93	0.79	8.47	2.25	7.77	1.84	8.03	1.33	8.44
19	2.74	7.11	0.78	8.43	8.16	7.22	0.12	8.41	0.83	8.45
20										
21	1.88	8.50	0.81	8.48	2.47	7.29	0.83	8.48	0.76	8.32
22	1.29	8.21	0.76	8.51	2.28	7.40	0.78	8.48	0.82	8.46
23	2.18	7.38	0.87	8.51	4.55	7.50	0.87	8.46	0.87	8.44
24	1.71	7.58	0.77	8.50	2.49	8.26	0.79	8.50	0.88	8.43
25	1.71	7.64	0.78	8.49	3.27	7.31	0.80	8.45	0.87	8.26
26	1.60	7.55	0.79	8.51	2.60	7.50	0.81	8.47	0.88	8.48
27										
28	1.78	7.63	0.84	8.46	3.45	7.31	0.82	8.35	0.91	8.32
29	1.49	8.30	0.81	8.47	2.41	7.78	1.06	8.04	1.56	8.02
30	1.71	7.75	0.80	8.47	3.41	7.90	0.88	8.23	0.86	8.41
31	1.83	7.56	0.80	8.43	2.72	7.70	2.03	8.09	2.62	8.20
FEB 1995										
1	1.43	8.24	0.80	8.43	2.19	7.77	1.89	8.66	2.27	8.08
2	1.44	8.28	0.81	8.47	3.66	7.80	1.99	8.06	1.58	8.18
3										
4	1.44	8.28	0.80	8.48	3.63	8.10	1.56	8.14	1.46	8.25
5	0.39	8.07	0.79	8.48	2.02	8.41	0.79	8.48	0.79	8.48
6	1.53	8.18	0.81	8.49	4.06	7.28	0.81	8.46	0.85	8.47
7	1.47	8.21	0.78	8.55	2.72	8.03	1.14	8.24	0.92	8.41
8			0.76	8.57	1.31	7.62	0.77	8.58		
9			0.72	8.48	2.97	7.58	0.73	8.47	0.75	8.41
10										
11			0.53	8.39	4.21	7.26	0.53	8.39	0.53	8.33
12			0.55	8.49	4.30	7.35	0.57	8.46	0.57	8.44
13			0.49	8.40	4.26	7.50	0.89	8.30	0.51	8.20
14			0.51	8.45	4.21	7.24	0.53	8.45	0.53	8.38
15	1.47	8.37	0.53	8.38			0.54	8.43	0.55	8.36
16	1.44	8.30	0.54	8.44	2.18	7.76	1.46	7.99	1.52	8.04
17										
18	1.43	8.35	0.58	8.45	3.78	7.39	0.66	8.28	1.32	[illegible]
19	1.44	8.28	0.59	8.46	3.39	7.73	1.80	7.90	1.49	8.08
20	1.44	8.48	0.60	8.46	2.77	7.77	2.28	8.09	1.26	8.03
21	1.44	8.34	0.63	8.41	2.20	7.77	1.92	7.86	2.72	8.09
22	1.43	8.44	0.61	8.46	2.49	7.77	2.21	7.90	2.71	[illegible]
23	1.42	8.25	0.63	8.48	2.20	7.88	1.17	7.93	1.86	7.93
24										
25	1.44	8.36	0.67	8.44	2.52	7.61	1.58	8.00	1.73	8.28
26	1.53	8.20	0.64	8.49	3.68	7.76	1.81	8.08	1.68	8.19
27	1.44	8.31	0.66	8.46	2.78	7.12	2.51	7.99	2.17	8.08
28	1.43	8.19	0.67	8.56	2.08	7.84	1.15	8.03	2.27	7.69

Table 2 (cont.)

	DOWNSTREAM FROM KTD		KAC. SWALHA		ABU ZEIGHAN WEIR		K ABDULLAH CANAL MAADI			
	EC (mmhos/cm)	PH	EC (mmhos/cm)	PH	EC (mmhos/cm)	PH	EC (mmhos/cm)	PH	EC (mmhos/cm)	PH
MAR 1995										
1	1 43	8 27	0 70	8 47	2.53	7 70	2.54	7 86	3 10	7 82
2										
3										
4										
5										
6	1 43	8 34	0 69	8 51		7 36	1 89	8 32	1 57	8 30
7	1 53	8 13	0 71	8 43		7 73	1 46	8 24	0 93	8 26
8	1 39	8 28	0 70	8 44	3 41	7 84	3 38	7 87	1 84	8 03
9	1.40	8 41	0 80	8.49	2.39	7 82	3 32	7 94	1 93	7 91
10										
11	1 37	8 16	0 69	8 42	2 53	7 80	1 61	7 93	1 41	8 06
12	1 36	8 26	0 69	8 42	3 29	7 83	1 73	8 05	1 71	7 96
13	1 39	8 33	0 72	8 42		8 05	2 93	8 20	2 06	8 05
14	1 38	8 22	0 71	8 30	2 02	7 81	2 02	7 74	2 41	7 74
15	1 38	8 25	0 72	8 33	2 24	7 75	2 24	7 75	2 22	7.82
16	1 35	8 31	0 72	8 36	2 08	7 71	2 08	7 76	2 15	7 75
17										
18	1 35	8 29	0 72	8 37	2 17	7 72	2 00	7 57	2 32	7 74
19	1 37	8 45	0 72	8 57	3 03	7 85	2 11	8 05	1 67	7 90
20	1 35	8 26	0 73	8 37	3 07	7 72	2 32	7 89	1 46	8 22
21	1 34	8 37	0 71	8 48	2 35	7 84	2 31	7 96	1 79	7 89
22	1 34	8 35	0 72	8 46	3 43	7 84	3 20	7 90	3 23	7 86
23	1 32	8 27	0 75	8 40	2 26	7 70	2 26	7 77	2 06	7 82
24										
25	1 30	8 31	0 73	8 31	2 22	7 74	1 50	7 87	1 81	7 82
26	1 34	8 29	0 81	8 45	2 23	7 76	2 21	7 79	2 11	7 85
27	1 34	8 38	0 81	8 49	2 37	7 84	2 37	7 84	2 61	7 88
28	1 34	8 29	0 81	8 50	2 26	7 84	2 26	7 88	2 34	7 82
29	1 34	8 31	0 79	8 52	2 23	7 83	2 23	7 81	2 13	7 83
30	1 24	8 28	0 81	8 51	2 35	7 76	1 86	7 92	1 73	7 84
31										

Table 3

MONTHLY EC VALUES at SELECTED LOCATIONS

(mmohs / cm)

DOWNSTREAM FROM KING TALAL DAM

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1986			1 90				1 89		2.72	2.70	0 72	
1987	1 49	1 19	1 44	1 20	1 26	1.28	1 29		1 78	2 01	1.60	1 52
1988	2 36	2 34	1.17	1 27	1 02	1 01	1 10	1 41	1.18	1.28	1 69	1.86
1989	2 30	1.78	1 55	1 56	1 72	1 58	1 56	1 66	1 68	2.03	2 22	2 59
1990	2 81	2 72	2 13	2 44	2 21	1 75	1 80	1 95	2 16	2 30	2.59	2.78
1991	2 73	1 76	2 29	2 24	1 79	1 73	1 86	2.10	2 25	2 61	2 52	1.50
1992		1 15	1 03	1 10	1 12	1 26	1.25	1 23	1.24	1.31	1 77	1 84
1993	2 10	1 68	1 60	1 58	1.57	1 60	1 61	1 58	1 72	1 90	2 13	2.12
1994												
1995												

ABU ZEIGHAN

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1986												
1987												2.40
1988	2 54	2 33	1 16	1 16	1 09	1 03	1 15	1 35	1 19	1 21	1 69	
1989												
1990	2 22				2 21	1 77	1 81	1 94	2 09	2 28	2.64	2.80
1991	2 64	2 08	2 17	1.75	2 04	1 92	2 22	2.28	2.56	2 72	2 79	2 09
1992			1 15	1 19	1 28	1 27	1 32	1.40	1 40	1.29	1 85	1.94
1993	1 76	1 71	1 63	1 66	1 74	2 33	2 33	2 22	2 27	2 25	2 51	2 62
1994												
1995												

KING ABDULLAH CANAL, SWALHA

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1986										1 66	1 30	0 79
1987	0 89	0 71	0 53	0 96	0 86	1 04	1 20		1 21	1.66	1 23	1 17
1988	1 83	0 60	0 58	0 80	0.87	0 81	0 96	0.98	0 87	1 21	0 81	
1989	0 85	0 92	0 81	0 90	0.89	0 84	0.89	0.91	0.93	0 91	0 91	0 90
1990	0.90	0 87	0 95	0 97	1 01	0 87	0.94	0 85	0 81	0 92	1 40	0 88
1991	0 92	0 91	0 93	0 89	0 89	0 91	0 93	0.85	0.93	0 98	0 94	0 77
1992	0.58	0 49	0 51	0 78	0 93	0 96	0 90	0 92	0.92	0 96	0 93	0.71
1993	0 63	0 66	0 75	0 82	0 88	0 89	0 95	0 85	0 90	0 92	0.92	0 92
1994		0 96	0.93	0 91	0 96			0 93				
1995												

KING ABDULLAH CANAL, MAADI

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1986			2 03				2 24		2 27	2 17	1.11	0 99
1987	0 89	0 78	0 71	1 12	1 28	1 41	1 69	1.55	1.97	2.22	1 81	1.75
1988	0 89	0 67	0 51	0 97	1 20	1 22	1.22	1.69	1.40	1.33	1 62	1 60
1989	1.02	1 90	1 69	1 70	1 80	1 60	1 82	1 62	1 80	2.07	1 75	1 17
1990	1 01	1 08	1 78	2 20	2 21	1 89	2 00	2 19	2 21	2 42	2.49	2.79
1991	2 30	1 24	2 15	1 83	1 82	1 85	1 92	2.17	2.24	2 27	2.19	0 91
1992	0 63	0 53	0 91	1.17	1 25	1.20	1 40	1 39	1.36	1 32	1 85	1 34
1993	1 39	0 99	1 58	1 58	1.74	2 32	2 26	2.18	2 32	2 25	2.50	2.71
1994			1 88	2.53				2.71				
1995												

Table 4

1994 DAILY INFLOWS TO KAC SOUTH

(litres/second)

	FLOW FROM ABU ZEIGHAN WEIR							FLOW FROM KAC NORTH							TOTAL FLOW IN KAC SOUTH						
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	APR	MAY	JUN	JUL	AUG	SEP	OCT	APR	MAY	JUN	JUL	AUG	SEP	OCT
1	1 200	1 491	1 200	1 088	550	1 600	200	211	0	0	0	0	0	702	1,411	1 491	1 200	1 088	550	1 600	902
2	1 431	1,491	1 200	1,088	549	1,500	1 613	0	0	0	0	0	334	157	1,431	1 491	1,200	1,088	549	1 834	1 770
3	1 550	1,491	1,200	1 034	900	1,200	1,552	0	0	0	0	0	0	212	1,550	1 491	1 200	1,034	900	1 200	1,764
4	1 200	1 491	1 256	602	1 700	1 350	1,430	36	0	0	0	100	136	193	1,236	1 491	1 256	602	1 800	1,486	1 623
5	1 671	1,491	1 373	602	1,803	1,550	1,676	0	0	0	0	0	151	0	1,671	1,491	1,373	602	1,803	1,701	1,676
6	1 803	1 313	1,200	602	850	1 350	1,933	0	0	0	0	113	46	70	1 803	1 313	1 200	602	963	1,396	2,003
7	1 933	1 431	1 200	1,318	930	900	1 676	0	0	0	0	65	231	0	1 933	1,431	1,200	1,318	995	1 131	1,676
8	878	1,431	1 200	779	1 000	700	850	0	0	0	0	236	135	208	878	1 431	1 200	779	1,236	835	1,058
9	731	1 371	1 200	878	700	1,350	1 300	681	0	0	0	0	302	322	1,412	1,371	1 200	878	700	1 652	1,622
10	1 199	1 430	1 200	828	815	1,400	1 550	0	0	0	0	0	281	155	1 199	1,430	1 200	828	815	1,681	1 705
11	1 313	1 491	1 200	824	1,200	1 400	1 650	146	0	0	0	0	353	24	1,459	1,491	1,200	824	1,200	1 753	1,674
12	1 372	1 370	1 200	2 200	1,200	1,500	1,504	282	0	0	0	0	298	0	1,654	1,370	1,200	2,200	1,200	1 798	1,504
13	1 332	1 491	1 200	1 430	800	1,000	1 200	126	0	0	0	250	120	218	1 458	1 491	1,200	1,430	1,050	1,120	1,418
14	1 552	1,431	1,088	0	590	1,250	1 100	281	0	0	0	29	239	58	1,833	1,431	1,088	0	619	1 489	1 158
15	1 672	1 431	1,288	300	600	1 250	750	287	0	0	0	193	172	993	1 959	1,431	1 288	300	793	1,422	1,743
16	1 672	1,431	1,143	1 168	900	1 400	500	488	0	0	0	40	163	954	2,160	1,431	1 143	1,168	940	1,563	1,454
17	1 672	1 431	878	600	1 200	1,300	600	294	0	0	0	30	278	840	1,966	1 431	878	600	1 230	1 578	1,440
18	1 672	1 371	878	648	1 250	1 250	800	70	0	0	0	0	281	746	1,742	1,371	878	648	1,250	1,531	1,546
19	1 672	1 371	828	600	1,370	1,600	500	0	0	0	0	0	130	569	1,672	1 371	828	600	1,370	1,730	1,069
20	1 672	828	1 070	1 430	1,150	1 550	600	0	0	0	0	0	222	75	1 672	828	1,070	1 430	1,150	1 772	675
21	1 672	828	1 250	1 143	779	1,450	1,550	0	0	0	0	185	273	492	1,672	828	1,250	1,143	964	1 723	2,042
22	1 672	1 200	1 150	828	1,200	1 350	1 100	0	0	0	0	121	207	408	1 672	1 200	1,150	828	1,321	1,557	1,508
23	1 672	1 200	1,143	797	1,200	1,400	1,100	0	0	0	0	0	178	330	1 672	1 200	1,143	797	1 200	1,578	1,430
24	1 672	1 200	1 150	730	1,200	1,350	1 235	0	0	0	0	80	360	271	1,672	1 200	1,150	730	1 280	1,719	1,506
25	1 672	1 200	1 173	1 300	1 300	1 200	1,199	0	0	0	0	0	282	411	1 672	1 200	1,173	1 300	1 300	1,482	1,610
26	1 672	684	1 034	1 200	1 550	1,400	1,088	0	0	0	0	0	166	221	1 672	684	1 034	1,200	1,550	1,566	1 309
27	1 672	684	1,034	464	1,150	1,400	1 088	0	0	0	0	312	244	195	1 672	684	1,034	464	1,462	1 644	1,283
28	1 672	1,143	1,034	828	1,200	1,550	828	0	0	0	0	57	261	146	1 672	1,143	1,034	828	1,257	1,811	974
29	1 672	1,143	1 610	1 739	1 034	1 600	1 867	0	0	0	0	0	697	140	1 672	1,143	1,610	1,739	1 034	2,297	2,007
30	1,551	1,200	1 088	1 250	1 450	1,400	1,551	0	0	0	0	0	738	328	1 551	1,200	1,088	1 250	1,450	2,138	1,879
31		1,200		779	1 600		1 371		0		0	0		152		1,200		779	1 600		1 523
Average	1 527	1 283	1 156	938	1 088	1 350	1 192	97	0	0	0	58	243	309	1 623	1 283	1,156	938	1,146	1,593	1,502

Table 5

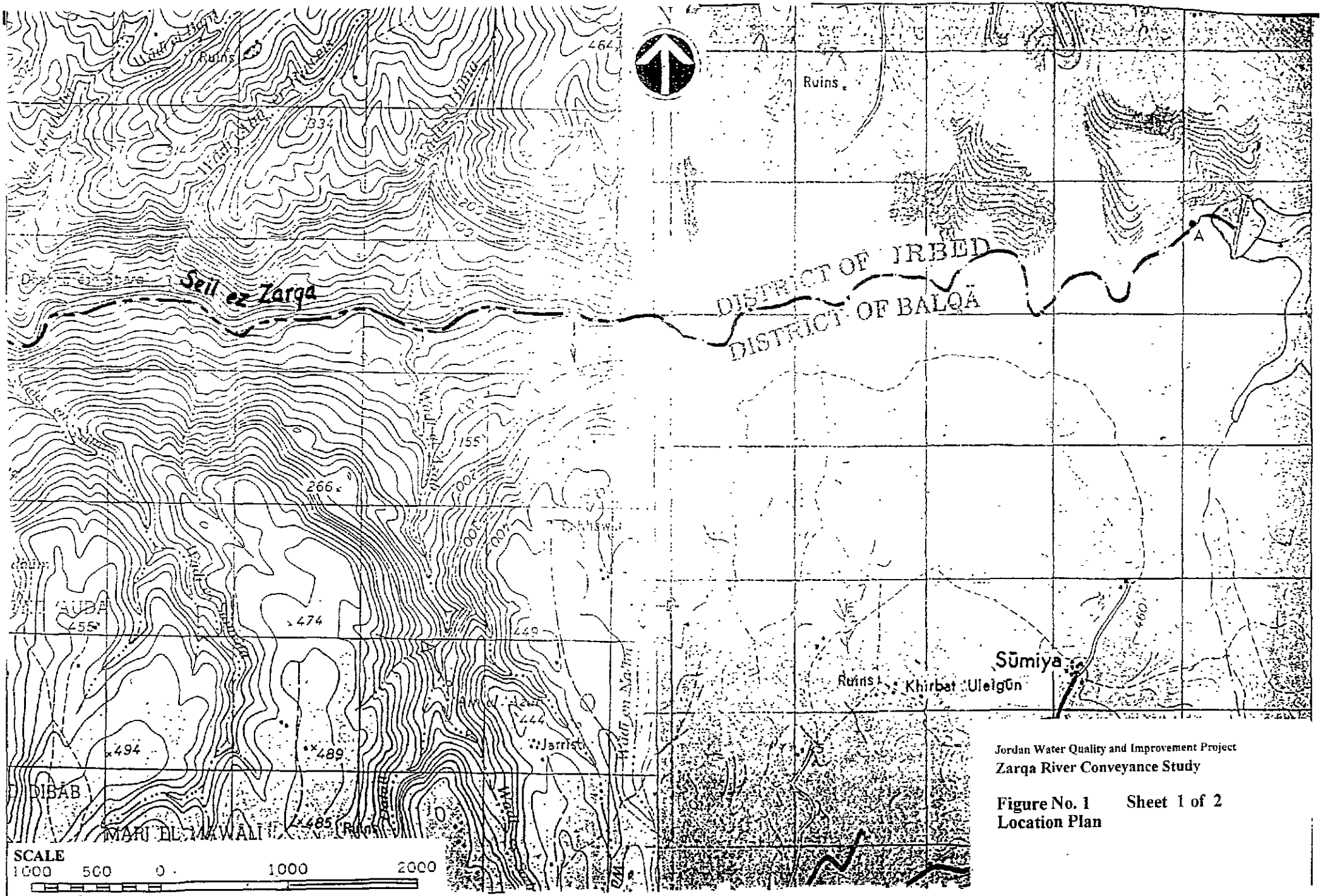
EC AND pH VALUES OF WATER IN THE ZARQA RIVER AND OF SPRINGS AND SEEPAGE ENTERING THE RIVER

No	Location	EC mmnos/cm	pH	App. Flow l/s	Incr. Flow l/s
1	King Talal Release	1.36	8.31	50	-
2	River sample at Bridge 1	1.46	8.14	-	-
3	River sample at Bridge 2	1.34	8.31	-	-
4	River sample	1.37	8.38	-	-
5	River sample at Bridge 3	1.37	8.20	-	-
6	River sample at Bridge 4	2.28	7.33	-	-
7	River sample opposite to salt well	2.96	7.26	55	5
8	Spring sample 100 m east of Man and Woman springs	2.23	6.99	-	-
9	River sample upstream from 8	4.49	7.15	86	31
10	River sample upstream from Man and Woman springs	4.54	7.30	104	18
11	Sample from Man spring	5.77	6.85	-	-
12	Sample from Woman spring	6.93	6.67	-	-
13	River sample downstream from Man and Woman springs	4.77	7.32	119	15
14	River sample upstream from salt spring (item 15)	4.82	7.61	-	-
15	Sample from salt spring	6.63	6.59	-	-
16	River sample downstream from salt spring (item 15)	4.82	7.53	131	12
17	Sample from salt spring	8.46	6.52	-	-
18	River sample downstream from salt spring (item 17)	5.02	7.33	138	7
19	Sample from salt spring	10.98	6.38	-	-
20	River sample downstream of salt spring (item 19)	7.78	6.71	206	68

Table 5 (continued)

No	Location	EC mmhos/cm	pH	App. Flow l/s	Incr. Flow l/s
21	Sample from salt spring	12.19	7.16	-	-
22	River sample 600 m upstream of Abu Zeighan bridge	8.19	6.91	210	4
23	River sample 300 m upstream of Abu Zeighan bridge	7.61	7.10	225	15
24	River sample at Abu Zeighan bridge	8.56	7.45	239	14
25	River sample upstream before diversion to Abu Zeighan	7.49	7.57	-	-
	Total flow from springs and seepage = 189 l/s				

FIGURES

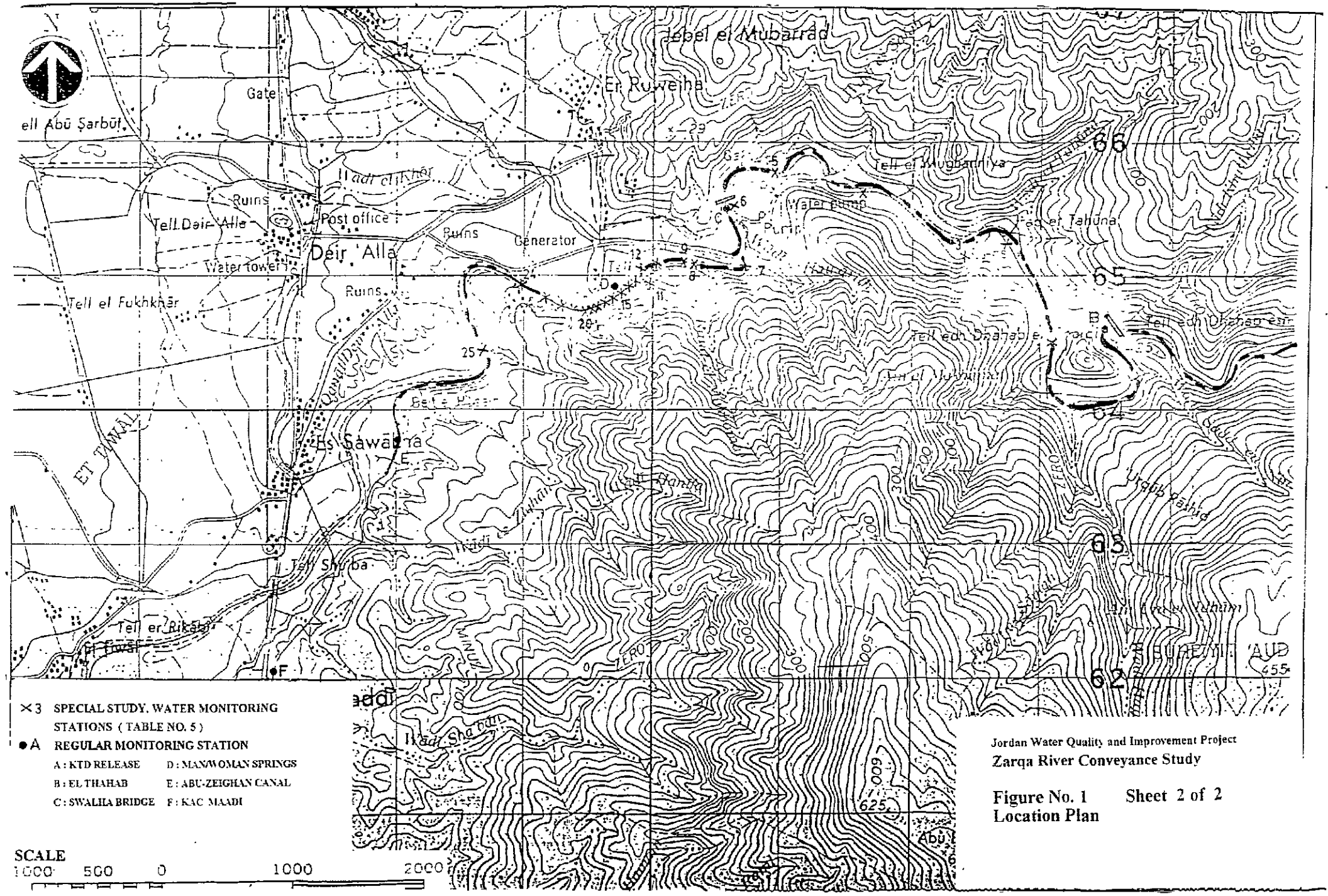


Jordan Water Quality and Improvement Project

Zarqa River Conveyance Study

Figure No. 1 **Sheet 1 of 2**

Location Plan



×3 SPECIAL STUDY, WATER MONITORING STATIONS (TABLE NO. 5)

●A REGULAR MONITORING STATION

A : KTD RELEASE D : MANWOMAN SPRINGS

B : EL THAHAB E : ABU-ZEIGHAN CANAL

C : SWALHA BRIDGE F : KAC MAADI

SCALE

1000 500 0 1000 2000

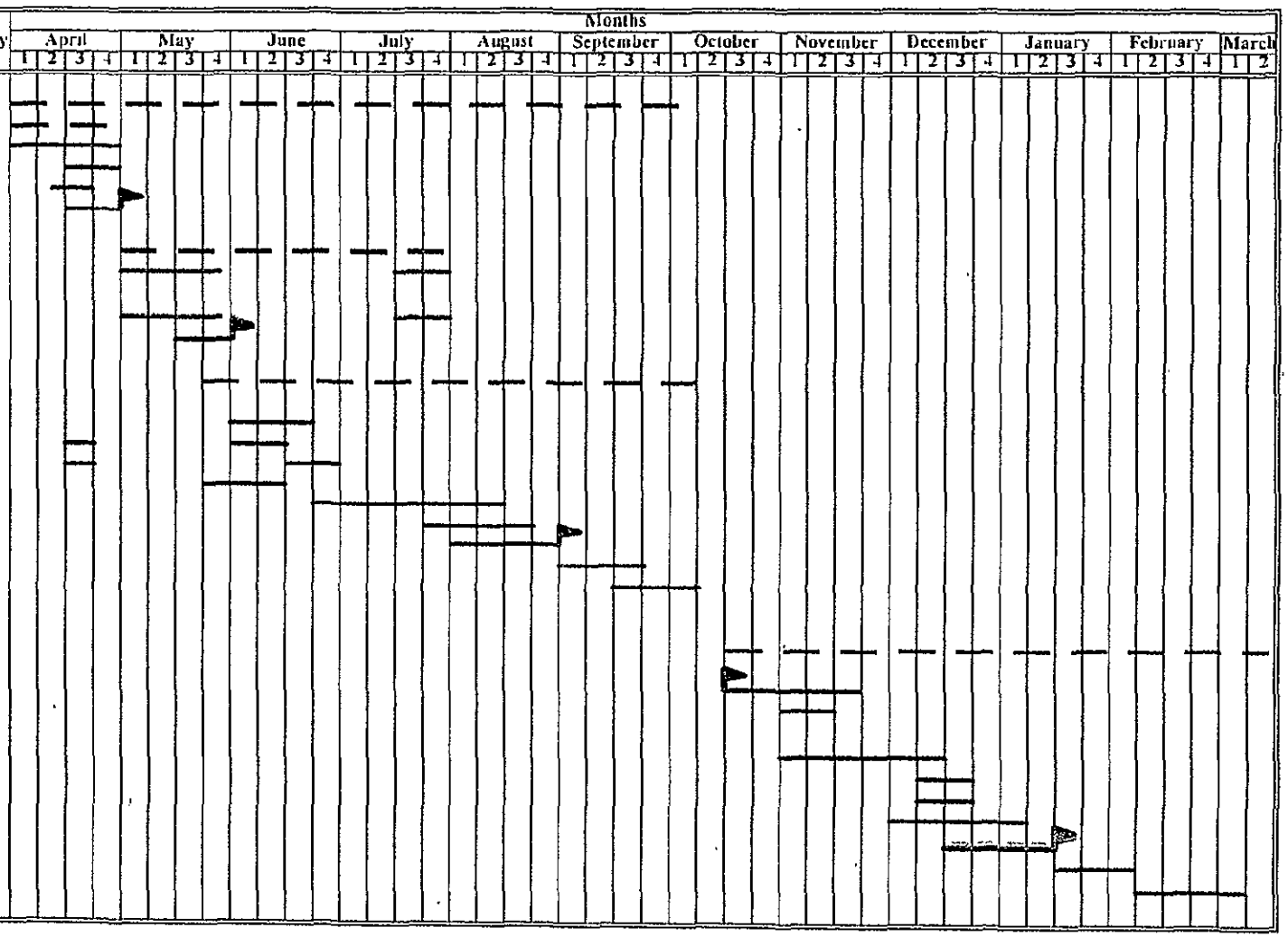
Jordan Water Quality and Improvement Project

Zarqa River Conveyance Study

Figure No. 1 Sheet 2 of 2

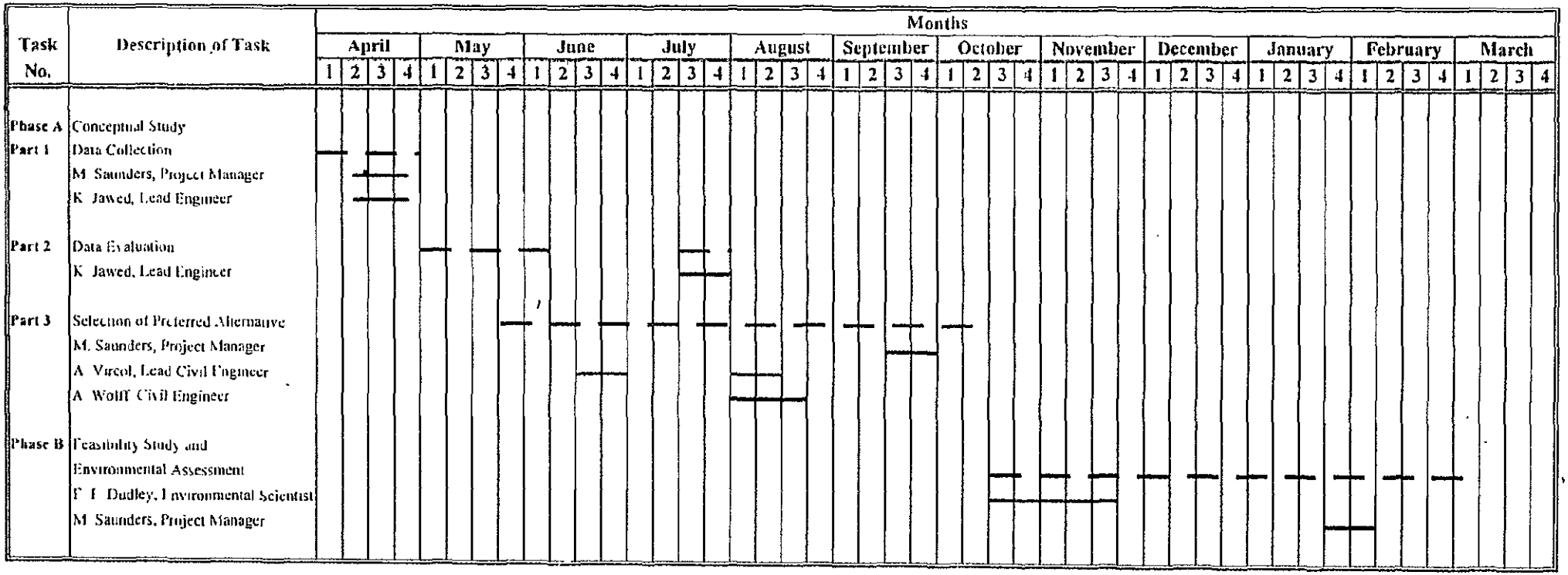
Location Plan

Task No.	Description of Task	Proposal Task No.	Responsibility
Phase A	Conceptual Study		
Part 1	Data Collection		
1.1	Data Collection	1.1	CC
1.2	Review and Analysis	1.2	H
1.3	Reconnaissance Survey	1.3	CC, H
1.4	Inception Report	1.4	H, CC
Part 2	Data Evaluation		
1.5	Evaluation of Water Losses	1.5	H
1.6	Evaluation of Spring Flow and Water Quality	1.6	CC, H
1.7	Comprehensive Survey Report		H, CC
Part 3	Selection of Preferred Alternative		
1.8	Hydrologic Analysis and Reservoir Operation	1.7	H
1.9	Geology	1.8	CC
1.10	Ground Water Regime	1.9	CC
1.11	Identification of Alternatives	1.10	CC, H
1.12	Conceptual Designs	1.11	CC, H
1.13	Comparison and Selection	1.12	CC, H
1.14	Conceptual Studies Report - Draft		CC, H
1.15	Comment Period		
1.16	Final Report		
Phase B	Feasibility and Environmental Assessment		
	Notice to Proceed		
2.1	Environmental Assessment	1.13	H, CC
2.2	Field Investigations	1.14	CC
2.3	Feasibility - Level Design and Cost Estimate	1.15	H, CC
2.4	Financial Analysis	1.16	H
2.5	Economic Analysis	1.17	H
2.6	Preliminary Design	1.18	H
2.7	Feasibility Report Draft	1.19	H
	Comment Period		
	Final Report		H



Harza Engineering Company
Consolidated Consultants - Engineering & Environment

Jordan Water Quality and Improvement Project
Zarqa River Conveyance Study
FIGURE 2
WORK PLAN SCHEDULE



Harza Engineering Company
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Zarqa River Conveyance Study
Expatriate Schedule in Jordan

FIGURE 3
EXPARTRIATE SCHEDULE IN JORDAN

APPENDIX No. 1

FLOW RECORDS FOR THE ZARQA RIVER AT VARIOUS LOCATIONS

شهر كانون ثاني ١٩٩٥

MONTH JANUARY YEAR 1995 DAYS 31

[illegible]		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15 TOTAL
[illegible] LEVEL	M	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible] STORAGE (800)	M3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible] FROM W.AREA	M3	1000	1000	1000	1000	1000	1000	1000	1000	[illegible]	1000	1000	[illegible]	[illegible]	[illegible]	15000
[illegible] FROM FAC-N	M3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible] TOTAL INFLOW	M3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible] STATION	M3	990	1000	990	990	990	990	990	990	[illegible]	990	990	[illegible]	[illegible]	[illegible]	13860
[illegible] TO FAC-N	M3															0
[illegible] TO AREA COMPLEX	M3	0	0	2100	0	2000	2000	2000			4000	2000	[illegible]		[illegible]	[illegible]
[illegible]	M3	1950	1950	1950	1950	1950	1950	1950	1950	[illegible]	1950	1950	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	M3															0
[illegible] OUTFLOW	M3															0
[illegible] TOTAL OUTFLOW	M3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	M3	0	0	0	0	0	0	0								0
[illegible] COURSE TRIBUTARY	M3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible] TO FAC-N	M3															0
[illegible] TO W.R SOD	M3	[illegible]		[illegible]	[illegible]			[illegible]	[illegible]		[illegible]				[illegible]	[illegible]
[illegible] TO WASTE	M3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible] LEVEL	M	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible] STORAGE (800)	M3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible] FROM W.EIGLAR	M3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible] INFLOW FROM FAC-N	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
[illegible] DAM TOTAL INFLOW	M3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible] DAM EVAPORATION	M3	200	200	200	200	200	200	200	200	[illegible]	200	[illegible]	[illegible]	[illegible]	[illegible]	1800
[illegible] DAM FAC TO FAC-N	M3															0
[illegible] DAM FAC TO AREA COMPLEX	M3	0	0	[illegible]	[illegible]	[illegible]	0	[illegible]	[illegible]	0	0	[illegible]	0	[illegible]	[illegible]	[illegible]
[illegible] DAM SEEPAGE	M3	1904	1904	1904	1904	1904	1904	1904	[illegible]	[illegible]	1904	[illegible]	[illegible]	[illegible]	[illegible]	16800
[illegible] DAM GATE	M3															0
[illegible] DAM SPILLOW	M3															0
[illegible] DAM TOTAL OUTFLOW	M3	2104	2104	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DIFFERENCE STORAGE	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W.[illegible] COURSE TRIBUTARY	M3															0
W.[illegible] COURSE TO FAC-N	M3															0
W.[illegible] COURSE TO W.R SOD	M3															0
W.[illegible] COURSE TO WASTE	M3	1904	1904	1904	1904	1904	1904	1904	1904	1904	1904	[illegible]	[illegible]	1904	1904	1904	30600
[illegible] DAM LEVEL	M	173.94	173.03	173.13	173.16	173.19	173.19	173.19	173.22	173.3	173.35	173.41	[illegible]	173.42	[illegible]	173.52	173.52
[illegible] DAM STORAGE (800)	M3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible] INFLOW FROM [illegible] RIVER	M3	227844	240657	230087	149176	137766	167766	176977	167166	210733	221230	[illegible]	[illegible]	260306	[illegible]	2253877
[illegible] DAM EVAPORATION	M3	4213	7085	9499	7112	9186	9446	4743	9493	9512	9524	9535	3552	3155	11944	9165	128139
[illegible] DAM SEEPAGE	M3	5313	5313	5313	5440	5440	5440	5440	5440	5440	5440	5445	[illegible]	5445	[illegible]	5445	83528
[illegible] DAM GATE	M3	0	50400	86400	154800	172800	172800	100800	76320	35160	16320	16320	201123	35160	14430	115140	1675500
[illegible] DAM SPILLOW	M3															0
[illegible] DAM TOTAL OUTFLOW	M3	10026	62798	101182	167352	187766	187766	111023	91291	190452	91324	91701	316718	104401	[illegible]	129950	1890403
DIFFERENCE STORAGE	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
[illegible] COURSE TRIBUTARY	M3	8640	8640	8640	8640	8640	8640	8640	8640	8640	8640	[illegible]	[illegible]	8640	[illegible]	8640	129600
[illegible] COURSE TO FAC-N	M3	0	0	0	[illegible]	[illegible]	172800	94003	33264	33264	33264	33264	33254	0	0	0	723195
[illegible] COURSE TO W.G.ECI	M3			19513	9591	19560	22464	13008	45619	45167	26286	[illegible]	[illegible]	[illegible]	[illegible]	15114	169412
[illegible] COURSE TO W.G.ECII	M3			[illegible]	[illegible]	[illegible]	62208	15511	139564	139659	110291	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1512511
[illegible] COURSE TO W.G.S.C	M3																0
[illegible] COURSE TO W.R SOD	M3																0
[illegible] COURSE TO WASTE	M3	13953	54353	-41005	15145	-139312	-70552	-12503	-123411	-199129	-99391	-177215	112247	-12513	[illegible]	-27153	-363291

شهر كانون ثاني ١٩٩٥

MONTH JANUARY YEAR 1995 DATE 31

شهر كانون ثاني 1990

CONTENTS RESOURCES/ DAMS	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	TOTALS-31	TOTALS-15	GRAND TOTAL	TOTAL	AVERAGE
ARAB DAM LEVEL	116.60	116.47	116.31	116.17	116.01	115.89	115.72	115.61	115.48	115.35	115.21	115.07	112.96	112.83	112.70	112.57			1170.21		
ARAB DAM STORAGE (MCM)	10.25630	10350000	10451000	10545000	10630000	10712000	10824000	10917000	11009000	11095000	11181000	11267000	11463000	11543000	11625000	11613000			-728000		
ARAB DAM INFLOW FROM W.ARAB	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	31000	15000	33010	359	1.
ARAB DAM INFLOW FROM ZAC-B	97000	101650	101650	94650	95700	95750	96800	89550	94500	94950	94950	94950	91950	91950	91950	92000	1516700	1125000	2955100	34233	1142
ARAB DAM TOTAL INFLOW	98000	102650	102650	95650	96700	96750	97800	90550	95500	95950	95950	95950	92950	92950	92950	93000	1532700	1140000	2988100	34591	1155
ARAB DAM EVAPORATION	800	800	800	800	850	900	950	950	1000	1050	1050	1050	1050	1050	1050	1100	15250	13550	28800	331	1.
ARAB DAM CAR TO ZAC-B	0																0	0	0	0	0
ARAB DAM CAR TO ARAB CONCRET	9400	0	0	0	0	0	0	0					14000				23400	35300	58700	679	22
ARAB DAM SEEPAGE	3850	3850	3850	3850	3850	3850	3850	3900	3900	3900	3900	3900	3900	3900	3900	3900	62650	56150	118800	1375	44
ARAB DAM GATE																	0	0	0	0	1
ARAB DAM OVERFLOW																	0	0	0	0	1
ARAB DAM TOTAL OUTFLOW	14050	4650	4650	4650	4700	4750	4800	4850	4900	4950	4950	4950	18950	4950	4950	5000	100700	105400	206100	2385	[illegible]
DIFFERENCE STORAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
W.ARAB COURSE TRIBUTARY	6518	6518	6518	6518	6518	6518	6518	6608	6608	6608	6608	6608	6608	6608	6608	6608	103838	90170	203600	2355	[illegible]
W.ARAB COURSE TO ZAC-B					8640	8640	5868	8640	8640	8640	8640	8640	8640	8640	8640	7520	100188	0	100188	[illegible]	[illegible]
W.ARAB COURSE TO W.B SC.							2772		720					8640		720	6984	11820	18812	217	[illegible]
W.ARAB COURSE TO WASTE	10368	10368	10368	10368	1728	1728	1728	1728	1008	1728	1728	1728	1728	-1044	1728	1728	58716	143152	201868	2335	[illegible]
ZIGLAB DAM LEVEL	118.66	118.73	118.80	118.88	118.95	119.02	119.09	119.16	119.24	119.31	119.38	119.46	119.53	119.58	119.62	119.65			2960700	[illegible]	
ZIGLAB DAM STORAGE (MCM)	2715300	2729650	2744000	2760400	2776800	2789100	2803450	2817800	2832200	2846550	2860900	2875250	2889600	2903900	2918200	2926650			-[illegible]	[illegible]	[illegible]
ZIGLAB INFLOW FROM W.ZIGLAB	16924	17503	19553	17503	17503	17503	17503	19553	17855	17855	19905	17855	17855	17855	17855	17855	288135	279855	567987	6558	21.
ZIGLAB INFLOW FROM ZAC-B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
ZIGLAB DAM TOTAL INFLOW	16924	17503	19553	17503	17503	17503	17503	19553	17855	17855	19905	17855	17855	17855	17855	17855	288135	279855	567987	6558	22
ZIGLAB DAM EVAPORATION	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	8000	4000	12000	139	[illegible]
ZIGLAB DAM CAR TO ZAC-B																	0	0	0	0	1
ZIGLAB DAM CAR TO ARAB CONCRET	0	0	0	0	0	0	0	0	0	0			4100	6300		4100	18350	7250	[illegible]	[illegible]	[illegible]
ZIGLAB DAM SEEPAGE	2850	2850	2850	2850	2850	2850	2850	2850	3005	3005	3005	3005	3005	3005	3005	3005	44685	35850	79535	[illegible]	[illegible]
ZIGLAB DAM GATE																	0	0	0	0	1
ZIGLAB DAM OVERFLOW																	0	0	0		1
ZIGLAB DAM TOTAL OUTFLOW	3350	3350	3350	3350	3350	3350	3350	3350	3505	3505	3505	3505	7605	9305	3505	7605	67035	[illegible]	[illegible]	[illegible]	[illegible]
DIFFERENCE STORAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
W.ZIGLAB COURSE TRIBUTARY																	0	0	0	0	1
W.ZIGLAB COURSE TO ZAC-B																	0	0	0	0	1
W.ZIGLAB COURSE TO W.B SC.																	0	0	0	0	[illegible]
W.ZIGLAB COURSE TO WASTE	2850	2850	2850	[illegible]	[illegible]	[illegible]	[illegible]	2850	3005	3005	[illegible]	[illegible]	3005	[illegible]	3005	[illegible]	44685	[illegible]	[illegible]	[illegible]	[illegible]
TALAL DAM LEVEL	173.56	173.65	173.73	173.80	[illegible]	[illegible]	173.89	173.96	173.98	174	[illegible]	[illegible]	174.12	174.11	[illegible]	174.12			[illegible]	[illegible]	
TALAL DAM STORAGE (MCM)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]	[illegible]	[illegible]
TALAL DAM INFLOW FROM Z.RIVER	[illegible]	[illegible]	290437	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TALAL DAM EVAPORATION	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TALAL DAM SEEPAGE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TALAL DAM GATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TALAL DAM OVERFLOW																	0	0	0	0	[illegible]
TALAL DAM TOTAL OUTFLOW	127504	127513	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DIFFERENCE STORAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Z.RIVER COURSE TRIBUTARY	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Z.RIVER COURSE TO ZAC-B	0											[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Z.RIVER COURSE TO W.G SC1	[illegible]	[illegible]	0		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Z.RIVER COURSE TO W.G.SC2	[illegible]	[illegible]			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Z.RIVER COURSE TO W.G.SC3																	0	0	0	0	1
Z.RIVER COURSE TO W.B SC4																	0	0	0	0	1
Z.RIVER COURSE TO WASTE	-30031	58232	52910	101170	63011	117303	45730	50156	65396	51.36	50102	62516	57191	50217	56426	112167	1010107	-802594	2502513	[illegible]	[illegible]

PAGE1 MONTH FABRUARY YEAR 1995 DAYS 28 JVA WATER MANAGE

UNCONTROLED RESOURCES	DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Total 1-15 M3
YARMOUK RIVER DISCHARGE	L/S	5574	5754	5635	5787	5725	6179	16952	95571	27413	39035	38701	28130	21609	16345	16240	28913760
TO KAC-N	L/S	3789	3804	3775	3537	3670	3749	4152	3171	2972	3082	3553	3499	3639	3561	3670	4523027
TO BETA	L/S	1785	1950	1860	2250	2055	2430	12800	92400	24441	35953	35148	24631	17970	12784	12570	24250733
BETA PERCENTAGE	%	32.0	33.9	33 0	38.9	35.9	39.3	75.5	96.7	89.2	92.1	90 8	87 6	83.2	78.2	77.4	84.0
MUKHEIBA TO KAC-N	L/S	666	666	666	666	666	666	666	666	666	666	666	666	666	666	666	863136
WARAB TO ARAB.DAM	L/S	12	12	12	12	12	12	1809	1169	12	12	12	12	12	12	12	270300
W TABEH DISCHARGE	L/S	23	23	23	23	23	23	23	80	50	30	30	30	30	8	8	36893
TO KAC-N	L/S	23	23	23	23	23	23	23	80	50	30	30	30	30	8	8	36893
TO W.R SO7	L/S																0
TO WASTE	L/S																0
WZIGLAB TO ZIG DAM	L/S	207	207	207	207	207	209	522	241	217	241	217	217	217	217	241	308853
WABU ZIAD DISCHARGE	L/S	50	50	50	50	50	50	50	50	50	50	50	50	150	150	145	90288
TO KAC-N	L/S	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	64800
TO W.R SO7	L/S																0
TO WASTE	L/S	0	0	0	0	0	0	0	0	0	0	0	0	100	100	95	25488
W JURUM DISCHARGE	L/S	300	300	300	320	320	320	320	350	350	350	350	325	333	324	325	422237
TO KAC-N	L/S												107	220	183	275	73699
TO NEG	L/S	50	83	60	83	83	60	83	0	0	0	0	50	35	83	50	62208
TO W.R SO2	L/S																0
TO WASTE	L/S	250	217	240	237	237	260	237	350	350	350	350	108	70	58	0	286330
WYABIS DISCHARGE	L/S	75	75	75	85	85	85	240	240	240	240	225	225	225	200	200	217296
TO KAC-N	L/S	75	75	75	85	85	85	240	240	240	240	225	225	225	200	200	217296
TO W.R SO2	L/S																0
TO WASTE	L/S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WJOUFRANJA DISCHARGE	L/S	290	290	290	290	290	290	290	500	500	300	300	292	294	395	945	430038
TO KAC-N	L/S																0
TO W R SO3	L/S	30	20	27	10	10	0	0	0	0	0	0	2	4	5	5	9763
TO IRR SO3	L/S																0
TO WASTE	L/S	260	270	263	280	280	290	290	500	500	300	300	290	290	390	940	473275
WRAAB DISCHARGE	L/S	210	210	210	210	210	210	210	310	250	250	250	250	300	250	425	324432
TO KAC-N	L/S	185	185	185	185	185	185	185	60	0	0	170	250	250	200	400	225800
TO W.R SO3	L/S																0
TO WASTE	L/S	25	25	25	25	25	25	25	250	250	250	80	0	50	50	25	97632
ZARQA RIVER TO TALAL D	L/S	2219	2320	2195	3375	3482	3430	3882	11815	6515	3211	3317	3362	3449	5741	9070	5821895
WMALLAHA DISCHARGE	L/S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO KARAMA D	L/S																0
TO WASTE	L/S																0
WSHUEIB TO SHUEIB D	L/S	310	310	310	310	310	310	310	500	500	400	400	400	400	400	673	504835
WKAFREIN TO KAF D	L/S	530	530	530	530	530	530	530	700	700	500	500	500	500	500	800	725624
WHISBAN DISCHARGE	L/S	176	176	176	176	178	176	176	300	300	200	200	200	200	350	350	268058
TO KAC-S	L/S																0
TO KAF.D	L/S																0
TO H K P	L/S	96	88	72	120	132	88	96	0								59789
TO WASTE	L/S	80	88	104	56	46	88	80	300	300	200	200	200	200	350	350	229269
WELLS TO KAC-N	L/S																0
WELLS TO W R SO9	L/S																0
SPRINGS TO IRR SO8	L/S																0
TOTAL	L/S	10641	10922	10678	12040	12087	12490	25981	112492	37763	45485	45218	34658	28385	25558	30100	39258645
BETA	L/S	1785	1950	1860	2250	2055	2430	12800	92400	24441	35953	35148	24631	17970	12784	12570	24286732.8
TOTAL WADIES TO DAMS	L/S	3277	3378	3253	4433	4540	4491	7054	14425	7944	4364	4446	4490	4578	6870	10796	7522507
TOTAL WADIES TO PROJECTS	L/S	4934	4974	4906	4749	4894	4906	5495	4267	3978	4068	4694	4937	5123	4951	5319	6237648
TOTAL WADIES TO (W R+IRR)	L/S	30	20	27	10	10	0	0	0	0	0	0	2	4	5	5	9763
TOTAL WADIES TO WASTE	L/S	615	600	632	598	588	663	632	1400	1400	1100	930	598	710	948	1410	1127994
TOTAL	L/S	10641	10922	10678	12040	12087	12490	25981	112492	37763	45485	45218	34658	28385	25558	30100	39258645

[redacted] MO[redacted]UARY [redacted]994 [redacted]

CONTROLED RESOURCES/ DAMS		19	20	21	22	23	24	25	26	27	28	29	30	31	TOTAL M3	TOTAL L/S	AVERAGE L/S	AVERAGE M3/DAY
ARAB DAM LEVEL	M	115.65	115.50	115.36	115.21	115.07	114.92	114.78	114.64	114.50	114.36	114.22	114.08	113.95	10778000			
ARAB DAM STORAGE (BOD)	M3	9599000	9694000	9782000	9878000	9967000	10063000	10153000	10243000	10334000	10425000	10516000	10607000	10693000	-3012000	-34861	-1125	-93161
ARAB DAM INFLOW FROM W.ARAB	M3	250	250	250	250	250	250	250	250	250	250	250	250	250	185440	2146	69	5932
ARAB DAM INFLOW FROM KAC-N	M3	98310	98410	102250	99700	99680	99530	98840	97700	98730	97710	91730	97740	94430	3044410	35236	1137	98207
ARAB DAM TOTAL INFLOW	M3	99060	98660	102500	99950	99930	99830	99090	97950	98980	97960	91980	97990	94680	3229850	37383	1206	104189
ARAB DAM EVAPORATION	M3	1210	950	800	600	1030	400	450	600	650	500	600	750	400	24150	280	9	779
ARAB DAM CAR TO KAC-N	M3														0	0	0	0
ARAB DAM CAR TO MEG	M3														54050	626	20	1744
ARAB DAM SEEPAGE	M3	2850	2850	2900	2900	2900	2900	2900	2900	2900	2900	2900	2900	2900	88500	1024	33	2855
ARAB DAM GATE	M3	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0
ARAB DAM OVERFLOW	M3														0	0	0	0
ARAB DAM TOTAL OUTFLOW	M3	4060	3800	3700	3500	3930	3300	3350	3500	3550	3400	3500	3650	3300	166700	1929	62	5377
DIFFERENCE STORAGE	M3	0	6800	2800	7450	0	6530	5740	3450	4430	3560	-2520	4340	6380	51150	592	19	1650
W.ARAB COURSE TRIBUTARY	M3	7516	7515	7468	7468	7468	7468	7468	7468	7468	7468	7468	7468	7468	232908	2696	87	7513
W.ARAB COURSE TO KAC-N	M3	7776	7776	9072	9072	9072	9072	9072	9072	8640	8190	0	0	0	236304	2735	88	7623
W.ARAB COURSE TO W.E SOF	M3	1296	1296	0	0	0	0	0	0	0	450	0	2772	0	19620	227	7	633
W.ARAB COURSE TO WASTE	M3	1296	1296	1296	1296	1296	1296	1296	1296	1728	1728	10368	7596	10368	65484	758	24	2112
ZIGLAB DAM LEVEL	M	115.41	118.55	118.67	118.75	118.86	118.96	119.03	119.14	119.24	119.35	119.46	119.56	119.67	2949000			
ZIGLAB DAM STORAGE (BOD)	M3	2670200	2692750	2717350	2739950	2756700	2775800	2793150	2813700	2834200	2856750	2879300	2899800	2922350	-646610	-7484	-241	-20856
ZIG.D INFLOW FROM W ZIGLAB	M3	24500	26097	24047	24900	25495	21545	22945	22895	24945	24945	22895	24945	29045	784712	9082	293	25313
ZIG.D INFLOW FROM KAC-N	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ZIGLAB DAM TOTAL INFLOW	M3	24500	26097	24047	24900	25495	21545	22945	22895	24945	24945	22895	24945	29045	784712	9082	293	25313
ZIGLAB DAM EVAPORATION	M3	200	200	200	200	200	200	200	200	200	200	200	200	200	6900	80	3	223
ZIGLAB DAM CAR TO KAC-N	M3														0	0	0	0
ZIGLAB DAM CAR TO MEG	M3	453			6603		5800	0	0	0	0	0	0	0	91305	1057	34	2945
ZIGLAB DAM SEEPAGE	M3	1297	1297	1297	1297	2195	2195	2195	2195	2195	2195	2195	2195	2195	39897	462	15	1287
ZIGLAB DAM GATE	M3														0	0	0	0
ZIGLAB DAM OVERFLOW	M3														0	0	0	0
ZIGLAB DAM TOTAL OUTFLOW	M3	1950	1497	1497	8100	2395	8195	2395	2395	2395	2395	2395	2395	2395	138102	1598	52	4455
DIFFERENCE STORAGE	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W.ZIGLAB COUSE TRIBUTARY	M3														0	0	0	0
W.ZIGLAB COUSE TO KAC-N	M3														0	0	0	0
W.ZIGLAB COUSE TO W.E SOF	M3														0	0	0	0
W.ZIGLAB COUSE TO WASTE	M3	1297	1297	1297	1297	2195	2195	2195	2195	2195	2195	2195	2195	2195	39897	462	15	1287
TALAL DAM LEVEL	M	160.50	160.59	160.68	160.78	160.92	161.33	161.52	161.76	161.94	162.10	162.25	162.46	162.52	46659000			
TALAL DAM STORAGE (BOD)	M3	42150000	42321000	42432000	42682000	42942000	43727000	44083000	44544000	44886000	45210000	45525000	45890000	46092000	-7874000	-91134	-2940	-254000
TALAL D INFLOW FROM Z.RIVER	M3	266813	266825	285836	360132	831767	411564	461018	348206	331956	322974	371235	285605	657870	11225006	129919	4191	362097
TALAL DAM EVAPORATION	M3	5028	5040	5051	3367	3382	2884	1738	1726	3476	3494	1755	3525	1790	123867	1434	46	3996
TALAL DAM SEEPAGE	M3	4385	4385	4385	4385	4385	4480	4480	4480	4480	4480	4480	4480	4480	135020	1563	50	4355
TALAL DAM GATE	M3	86400	86400	86400	86400	45000	43200	1400	0	0	0	0	75600	84600	3092119	35788	1154	99746
TALAL DAM OVERFLOW	M3														0	0	0	0
TALAL DAM TOTAL OUTFLOW	M3	95813	95825	95836	94132	52767	50564	8018	6206	7956	7974	6235	83605	90870	3351006	38785	1251	108097
DIFFERENCE STORAGE	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Z.RIVER COURSE TRIBUTARY	M3	4320	4320	4320	4320	4320	4320	4320	4320	4320	4320	4320	4320	4320	133920	1550	50	4320
Z.RIVER COURSE TO KAC-S	M3	0	12960	29981	21600	0	0	0	0	0	0	0	0	0	130516	4983	161	13888
Z.RIVER COURSE TO M.G.ZCI	M3	37584	37584	37584	37584	37584	25920	25920	8800	0	0	0	40000	53568	1006620	11651	376	32472
Z.RIVER COURSE TO M.G.ZCII	M3	43200	43200	17280	25920	25920	21600	21600	0	0	0	0	30000	31104	1740894	20149	650	56154
Z.RIVER COURSE TO M.G.S.C	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	30240	350	11	975
Z.RIVER COURSE TO W.E SOF	M3														0	0	0	0
Z.RIVER COURSE TO WASTE	M3	14321	1361	10260	10001	-9799	4460	-36920	0	8800	8800	8800	14400	8728	152789	1768	57	4929

CONTROLED RESOURCES/ DAMS		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
ARAB DAM LEVEL	M	118.67	118.57	118.47	118.26	117.89	117.7	117.54	117.37	117.2	117.04	116.88	116.72	116.56	116.40	116.25	116.09	115.94	115.79
ARAB DAM STORAGE (BOD)	M3	7766000	7824000	7883000	8006000	8226000	8339000	8435000	8538000	8640000	8738000	8835000	8933000	9032000	9131000	9224000	9323000	9417000	9511000
ARAB DAM INFLOW FROM W.ARAB	M3	250	250	37060	118460	18770	250	250	250	250	250	250	250	250	250	4400	250	250	250
ARAB DAM INFLOW FROM KAC-N	M3	85780	74770	103540	98340	90830	103140	103950	105430	102080	102340	100360	100930	99780	98330	97800	97710	98900	105040
ARAB DAM TOTAL INFLOW	M3	86030	75020	140600	216800	109600	103390	104200	105680	102330	102590	100610	101230	100030	98580	102200	97960	99150	105290
ARAB DAM EVAPORATION	M3	1150	600	400	400	600	800	750	880	1480	1450	1150	1250	950	600	350	400	1000	1200
ARAB DAM CAR TO KAC-N	M3	0	0	0	0	0	0	0	0	0	0		0			0		0	0
ARAB DAM CAR TO BEG	M3	23530	12620	14400	0	0	0	0	0	0	0	0	0			0		0	3900
ARAB DAM SEEPAGE	M3	2600	2800	2800	2800	2800	2800	2800	2800	2850	2850	2850	2850	2850	2850	2850	2850	2850	2850
ARAB DAM GATE	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ARAB DAM OVERFLOW	M3												0	0	0	0			0
ARAB DAM TOTAL OUTFLOW	M3	27780	16020	17600	3200	3400	3600	3550	3680	4330	4300	4000	4100	3800	3450	3200	3250	3850	7050
DIFFERENCE STORAGE	M3	250	0	0	-6400	-6800	3190	-2350	0	0	1290	-1390	-1870	-2770	2130	0	710	1300	10240
W.ARAB COURSE TRIBUTARY	M3	7568	7568	7568	7568	7568	7568	7568	7568	7518	7518	7518	7518	7518	7518	7518	7518	7518	7518
W.ARAB COURSE TO KAC-W	M3	7632	5004	9072	8352	9072	9072	8622	9072	6300	9072	8352	9072	9072	9072	9072	6300	9072	8208
W.ARAB COURSE TO W.E SOI	M3	1440	4068	0	720	0	0	450	0	2772	0	720	0	0	0	0	2772	0	864
W.ARAB COURSE TO WASTE	M3	1296	1296	1296	1296	1296	1296	1296	1296	1296	1296	1296	1296	1296	1296	1296	1296	1296	1296
ZIGLAB DAM LEVEL	M	116.58	116.55	116.68	116.8	117	117.16	117.29	117.43	117.55	117.67	117.79	117.89	117.99	117.90	118.01	118.09	118.20	118.32
ZIGLAB DAM STORAGE (BOD)	M3	2302190	2296525	2321940	2343400	2384500	2415780	2441165	2468565	2493025	2515485	2538945	2558495	2578045	2560450	2583056	2598450	2621000	2645600
ZIG.D INFLOW FROM W.ZIGLAB	M3	24500	26532	26530	40217	35097	26202	28217	24277	24277	24277	20649	20649	20649	22699	24500	21047	26097	26097
ZIG.D INFLOW FROM KAC-N	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ZIGLAB DAM TOTAL INFLOW	M3	24500	26532	26530	40217	35097	26202	28217	24277	24277	24277	20649	20649	20649	22699	24500	21047	26097	26097
ZIGLAB DAM EVAPORATION	M3	500	500	0	500	200	200	200	200	200	200	200	200	200	200	200	200	200	200
ZIGLAB DAM CAR TO KAC-W	M3																		
ZIGLAB DAM CAR TO BEG	M3	29242	0	2453	0	3060	0	0	0	0	0	0	0	37145	0	6603	0	0	0
ZIGLAB DAM SEEPAGE	M3	617	617	617	617	617	617	617	617	617	617	899	899	899	899	1297	1297	1297	1297
ZIGLAB DAM GATE	M3																		
ZIGLAB DAM OVERFLOW	M3												0						
ZIGLAB DAM TOTAL OUTFLOW	M3	30365	1117	3070	1117	3877	817	817	817	817	817	1099	1099	38244	1099	8100	1497	1497	1497
DIFFERENCE STORAGE	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W.ZIGLAB COUSE TRIBUTARY	M3																		
W.ZIGLAB COUSE TO KAC-W	M3																		
W.ZIGLAB COUSE TO W E SOI	M3																		
W.ZIGLAB COOSE TO WASTE	M3	617	617	617	617	617	617	617	617	617	617	899	899	899	899	1297	1297	1297	1297
TALAL DAM LEVEL	M	158.62	158.56	158.52	158.56	159.08	159.35	159.5	159.66	159.78	159.89	159.95	159.99	160.03	160.03	160.06	160.10	160.26	160.40
TALAL DAM STORAGE (BOD)	M3	38765000	38640000	38616000	38680000	39590000	40062500	40325000	40605000	40815000	41007500	41112500	41182500	41257000	41257000	41314000	41390000	41694000	41960000
TALAL.D INFLOW FROM Z.RIVER	M3	246641	239468	310880	1023831	478538	271559	285092	269350	332875	264861	236332	317271	208709	293693	190571	399793	360945	285796
TALAL DAM EVAPORATION	M3	1601	1278	1540	3192	1598	4869	4902	6560	6585	6631	6622	7461	5809	4983	3821	5008	4160	5011
TALAL DAM SEEPAGE	M3	4440	4440	4440	4440	4440	4190	4190	4190	4190	4190	4190	4190	4190	4190	4190	4385	4385	4385
TALAL DAM GATE	M3	345600	303750	234900	106199	0	0	0	48600	129600	149040	155520	231120	198710	227520	106560	86400	86400	86400
TALAL DAM OVERFLOW	M3																		
TALAL DAM TOTAL OUTFLOW	M3	351641	309469	240880	113831	6038	9059	9092	59350	140375	159861	166332	242771	208709	236693	111571	95793	94945	95796
DIFFERENCE STORAGE	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Z.RIVER COOUSE TRIBUTARY	M3	4320	4320	4320	4320	4320	4320	4320	4320	4320	4320	4320	4320	4320	4320	4320	4320	4320	4320
Z.RIVER COOUSE TO KAC-S	M3	80500	78300	53000	53000	0	0	0	0	0	0	0	0	0		33264	51149	8381	8381
Z.RIVER COOUSE TO M.G.ZCI	M3	73880	36880	34560	24560	8760	8510	8510	56000	38880	43200	43200	43200	43200	43200	43200	37584	37584	37584
Z.RIVER COOUSE TO M.G.ZCII	L\M	186440	181440	144150	28000	0	0	0	0	90000	90000	115000	156000	150000	108000	38000	105840	45000	43200
Z.RIVER COOUSE TO M.G.S.C	M3	4320	4320	4320	4320	0	0	0	0	0	0	4320	4320	4320	0	0	0	0	0
Z.RIVER COOUSE TO W.E SOE	M3					0	0	0	0	0	0	0	0						
Z.RIVER COOUSE TO WASTE	M3	9220	9570	7630	5079	0	0	0	1110	9230	24350	1510	36110	9700	31530	606	-99168	4140	5940

ENT DEPARTMENT PAGE 1 A MONTH FEBRUARY [redacted] 95 DA[redacted]

UNCONTROLED RESOURCES	DAY	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total 16-31 M3	Total 1-15 M3	GRAND TOTAL M3
YARMOUK RIVER DISCHARGE	L/S	15516	13360	12832	12437	11565	11770	11740	11649	11366	10340	9170	8871	7674	0	0	0	12846730	28913760	41760490
TO KAC-N	L/S	3594	3552	3475	3475	3415	3670	3749	3749	3749	3670	3570	3592	4730				4154976	4633027	8788003
TO BETA	L/S	11922	9808	9357	8962	8550	8100	7991	7900	7616	6670	5500	5279	2944				8691754	24280733	32972486
BETA PERCENTAGE	%	76.8	73.4	72.9	72.1	71.6	68.8	68.1	67.8	67.0	64.5	60.0	59.5	38.4	0.0	0.0	0.0	67.7	84.0	152
MUKHEIBA TO KAC-N	L/S	666	666	666	666	666	666	666	666	666	666	666	666	666				748051	863136	1611187
W ARAB TO ARAB DAM	L/S	12	12	12	12	12	12	12	12	12	12	12	12	12				13000	270300	283300
W TAIBEH DISCHARGE	L/S	8	8	8	8	8	8	8	8	8	8	8	8	8	0	0	0	8966	36693	45678
TO KAC-N	L/S	8	8	8	8	0	0	0	0	0	0	0	0	0				2765	36893	39658
TO W R 807	L/S					8	8	8	8	8	8	8	8	8				8221	0	8221
TO WASTE	L/S																	0	0	0
W ZIGLAB TO ZIG DAM	L/S	217	217	217	203	203	203	192	203	203	203	203	175	175				225648	308853	534499
W ABU ZIAD DISCHARGE	L/S	145	145	145	145	145	145	145	145	145	145	145	145	145	0	0	0	162664	90288	252952
TO KAC-N	L/S	60	60	60	60	60	60	60	60	60	60	60	60	60				56160	64800	120960
TO W R 807	L/S																	0	0	0
TO WASTE	L/S	95	95	95	95	95	95	95	95	95	95	95	95	95				106704	25488	132192
W JURUM DISCHARGE	L/S	352	326	325	325	326	325	326	300	300	300	300	300	300	0	0	0	354672	422237	776909
TO KAC-N	L/S	285	291	258	0	0	0	0	233	265	233	233	265	233				198374	73699	272074
TO NEG	L/S	67	35	67	67	35	67	35	67	35	67	67	35	67				61430	62208	123638
TO W R 902	L/S																	0	0	0
TO WASTE	L/S	0	0	0	258	291	258	291	0	0	0	0	0	0				94867	296330	391197
W YABIS DISCHARGE	L/S	200	200	200	200	220	220	220	160	160	160	160	160	160	0	0	0	209084	217296	426384
TO KAC-N	L/S	200	200	200	200	220	220	220	160	160	160	160	160	160				209084	217296	426384
TO W R 502	L/S																	0	0	0
TO WASTE	L/S	0	0	0	0	0	0	0	0	0	0	0	0	0				0	0	0
W KUFRANJA DISCHARGE	L/S	945	940	944	918	918	930	887	900	921	850	883	900	855	0	0	0	1021334	480038	1501373
TO KAC-N	L/S																	0	0	0
TO W R 503	L/S	15	10	4	18	18	30	37	0	21	30	33	0	65				23414	9763	33178
TO IRR 503	L/S																	0	0	0
TO WASTE	L/S	930	930	940	900	900	900	850	900	900	850	850	900	800				997920	470275	1468195
W RAJIB DISCHARGE	L/S	425	425	425	425	425	425	425	425	400	400	400	400	400	0	0	0	466560	324432	790992
TO KAC-N	L/S	400	400	400	400	400	400	400	400	400	400	400	400	400				449280	226800	676080
TO W R 503	L/S																	0	0	0
TO WASTE	L/S	25	25	25	25	25	25	25	25	0	0	0	0	0				17280	97632	114912
ZARQA RIVER TO TALAL D	L/S	3700	3694	2620	2988	2885	3061	2471	3563	2647	2908	2974	2917	2823	0	0	0	3369482	5621895	8991377
W MALLAHA DISCHARGE	L/S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO KARAMA D	L/S																	0	0	0
TO WASTE	L/S																	0	0	0
W SHUEIB TO SHUEIB D	L/S	673	673	673	673	673	673	673	673	673	673	673	673	673				755914	504835	1260749
W KAFREIN TO KAF.D	L/S	800	800	800	800	800	800	800	800	800	800	800	800	800				898560	726624	1625184
W HISBAN DISCHARGE	L/S	350	350	350	350	350	350	350	350	350	350	350	350	350	0	0	0	393120	268058	661178
TO KAC-S	L/S																	0	0	0
TO KAF D	L/S																	0	0	0
TO H K.P	L/S	0	0	0	96	72	120	120	88	96	72	120	132	88				86746	59769	146534
TO WASTE	L/S	350	350	350	254	278	230	230	262	254	278	230	218	262				306374	228269	534643
WELLS TO KAC-N	L/S																	0	0	0
WELLS TO W R 809	L/S																	0	0	0
SPRINGS TO IRR 508	L/S																	0	0	0
TOTAL	L/S	24009	21816	20217	20149	19595	19577	18915	19843	18649	17844	16743	16376	15040	0	0	0	21494006	39258645	60752651
BETA	L/S	11922	9808	9357	8962	8550	8100	7991	7900	7616	6670	5500	5279	2944	0	0	0	8691754	24280733	32972486
TOTAL WADIES TO DAMS	L/S	5402	5396	4322	4675	4572	4738	4148	5240	4334	4595	4661	4576	4482	0	0	0	5282602	7632507	12915109
TOTAL WADIES TO PROJECTS	L/S	5270	5202	5124	4962	4858	5193	5240	5413	5421	5318	5366	5300	6394	0	0	0	5966870	6237648	12204518
TOTAL WADIES TO (W R+IRR)	L/S	15	10	4	18	26	38	45	8	29	38	41	8	63	0	0	0	29635	9763	39398
TOTAL WADIES TO WASTE	L/S	1400	1400	1410	1532	1589	1508	1491	1282	1249	1223	1175	1213	1157	0	0	0	1523146	1107994	2631139
TOTAL	L/S	24009	21816	20217	20149	19595	19577	18915	19843	18649	17844	16743	16376	15040	0	0	0	21494006	39258645	60752651

MONTH FEBRUARY YEAR 1956

CONTROLED RESOURCES/ DAMS		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
ARAR DAM LEVEL	M	113.42	113.48	113.56	113.42	113.3	113.17	113.05	112.92	112.79	112.68	112.56	112.42	112.30	112.14	112.06	111.94	111.82	111.70
ARAR DAM STORAGE (BOD)	M3	10778000	10870000	10950000	11042000	11122000	11209000	11285000	11377000	11458000	11538000	11615000	11711000	11796000	11878000	11960000	12012000	12135000	12206000
ARAR DAM INFLOW FROM W.ARAR	M3	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250
ARAR DAM INFLOW FROM EAC-N	M3	102100	97150	98140	93840	98360	99300	95070	99390	97300	97540	97780	93530	98060	96620	97400	97590	94240	96490
ARAR DAM TOTAL INFLOW	M3	102350	97400	98690	94130	98610	99550	95320	99640	97550	97830	98030	93780	96310	96670	97650	97840	94450	96740
ARAR DAM EVAPORATION	M3	500	600	600	700	800	850	700	600	600	600	400	350	400	300	500	700	750	600
ARAR DAM CAR TO EAC-N	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ARAR DAM CAR TO KEG	M3	0	0	3540	4500	500	0	0	0	15300	5600	0	0	0	11140	5160	2400	2160	600
ARAR DAM SEEPAGE	M3	2950	2950	2950	2950	2950	2950	3040	3000	3000	3000	3000	3000	3050	3050	3050	3150	3200	3250
ARAR DAM GATE	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ARAR DAM OVERFLOW	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ARAR DAM TOTAL OUTFLOW	M3	3450	3550	6690	5150	4250	3800	3300	3600	15300	9200	3400	3350	3450	14190	8210	6750	6050	6850
DIFFERENCE STORAGE	M3	6500	15650	0	11200	7560	15750	7620	9040	4250	7630	-370	8430	10860	160	6540	6590	7410	3290
W.ARAR COURSE TRIBUTARY	M3	74.8	7418	74.8	7418	7418	7418	7368	7368	7368	7368	7368	7368	7328	7318	7318	7318	7318	7318
W.ARAR COURSE TO EAC-N	M3	0	0	0	0	0	0	8640	8640	7344	8640	8640	7344	5760	8640	8640	8640	8640	8640
W.ARAR COURSE TO W.E SOT	M3	0	0	0	0		2772			1296			1296	2772					
W.ARAR COURSE TO WASTE	M3	10368	10368	10368	10368	10368	7596	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728
ZIGLAR DAM LEVEL	M	119.8	119.93	120.01	120.11	120.19	120.27	120.35	120.43	120.51	120.59	120.53	120.6	120.69	120.62	120.52	121.42	121.12	121.25
ZIGLAR DAM STORAGE (BOD)	M3	2948000	2975650	2992050	3021500	3039525	3046360	3062800	3079410	3096000	3112720	3058160	3114800	3133520	3.60500	3.81300	3202160	3222900	3250000
ZIG.D INFLOW FROM W ZIGLAR	M3	25045	18825	23195	29040	19030	19035	19035	19035	19453	19500	19453	21533	19853	23613	23613	23613	19853	21533
ZIG.D INFLOW FROM EAC-N	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ZIGLAR DAM TOTAL INFLOW	M3	25045	18825	23195	29040	19030	19035	19035	19035	19453	19500	19453	21533	19853	23613	23613	23613	19853	21533
ZIGLAR DAM EVAPORATION	M3	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
ZIGLAR DAM CAR TO EAC-N	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ZIGLAR DAM CAR TO KEG	M3	0	0	0	0	0	0	0	0	0	31247	0	0	0	0	0	0	0	0
ZIGLAR DAM SEEPAGE	M3	2195	2195	2195	2195	2195	2195	2195	2195	2613	2613	2613	2613	2613	2613	2613	2613	2613	2613
ZIGLAR DAM GATE	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ZIGLAR DAM OVERFLOW	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ZIGLAR DAM TOTAL OUTFLOW	M3	2395	2395	2395	2395	2395	2395	2395	2395	2613	31600	2613	2613	2613	2613	2613	2613	2613	2613
DIFFERENCE STORAGE	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W.ZIGLAR COURSE TRIBUTARY	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W.ZIGLAR COURSE TO EAC-N	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W ZIGLAR COURSE TO W.E SOT	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W.ZIGLAR COURSE TO WASTE	M3	2195	2195	2195	2195	2195	2195	2195	2195	2613	2613	2613	2613	2613	2613	2613	2613	2613	2613
TALAL DAM LEVEL	M	162.79	163.55	163.75	163.91	164.05	164.18	164.3	164.39	164.48	164.58	164.7	164.82	164.97	165.04	165.19	165.29	165.35	165.41
TALAL DAM STORAGE (BOD)	M3	4645000	4725000	4667500	4701,000	49305500	49519000	47832000	50072000	50212000	50122000	50673000	50930000	51246700	51372000	51710900	51921900	52018500	52175100
TALAL.D INFLOW FROM 2 RIVER	M3	360220	487525	346015	302249	244426	290342	245128	245.42	259257	283273	323166	363918	369334	265425	289958	225271	215385	236224
TALAL DAM EVAPORATION	M3	1790	5459	5535	3709	5546	5602	7488	7502	7513	7533	3776	5678	5494	5524	9553	7670	7624	9623
TALAL DAM SEEPAGE	M3	4460	4480	4480	4540	4540	4540	4540	4540	4540	4540	4540	4540	4540	4601	4601	4601	4601	4501
TALAL DAM GATE	M3	0	57600	0	0	0	27000	43200	43200	16200	0	61650	43200	43200	43200	64800	86400	86400	43200
TALAL DAM OVERFLOW	M3	0	0	0	0	0													
TALAL DAM TOTAL OUTFLOW	M3	6250	67579	10015	8249	10126	37142	55228	55242	28253	12073	69966	53418	57234	57325	74958	56671	98685	57424
DIFFERENCE STORAGE	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E.RIVER COURSE TRIBUTARY	M3	69.2	69.2	6912	6912	6912	6912	6912	69.2	6912	6912	6912	6912	-6912	6912	6912	6912	6912	6912
E.RIVER COURSE TO EAC-S	M3	0	0	0	0	0	0	0	0	0	0	0	25920	25920	8640	0	0	0	0
E.RIVER COURSE TO N G ICI	M3	0	17000	0	6912	6912	35000	45060	35000	31060	6912	35920	25920	25500	25920	25920	25900	25920	0
E.RIVER COURSE TO N.G.ZCII	M3	0	39000	0	0	0	0	0	10000	0	0	0	0	0	37280	60480	60480	60480	0
E.RIVER COURSE TO N.G.S.C	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E.RIVER COURSE TO W E SOT	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E RIVER COURSE TO WASTE	M3	11392	12592	11392	4540	4540	3452	5652	5652	6652	4540	47182	2832	2832	2832	9912	31532	31512	54712

MONTH FEBRUARY YEAR 1954

CONTROLED RESOURCES/ DAMS		19	20	21	22	23	24	25	26	27	28	TOTAL M3	TOTAL L/S	AVERAGE L/S	AVERAGE M3/DAY
ARAB DAM LEVEL	M	111.58	111.46	111.36	111.28	111.16	111.03	110.84	110.77	110.65	110.56				
ARAB DAM STORAGE (BOD)	M3	12291000	12354000	12443000	12499000	12583000	12695000	12779000	12856000	12961000	13017000	13140000			
ARAB DAM INFLOW FROM W ARAB	M3	350	350	350	9210	29770	350	350	350	17000	350	-23630C0	-29338	-976	-84357
ARAB DAM INFLOW FROM KAC-R	M3	56070	56270	95700	94380	93360	94260	94260	92960	93000	93510	62860	724	26	2245
ARAB DAM TOTAL INFLOW	M3	96320	96620	96050	103820	123130	94610	94610	93310	110000	93860	2760150	31252	1116	54434
ARAB DAM EVAPORATION	M3	600	510	200	400	350	400	600	600	500	650	2763010	31979	1142	51679
ARAB DAM CAR TO KAC-R	M3	0	0	0	0	0	0	0	0	0		16530	191	7	598
ARAB DAM CAR TO REG	M3	3800	14600	16500	15820	7380	3500	0	0	0	0	0	0	0	0
ARAB DAM SEEPAGE	M3	3300	3350	3350	3400	3400	3400	3450	3450	3500	3500	109240	1264	45	3908
ARAB DAM GATE	M3	0	0	0	0	0	0	0	0	0		88550	1025	37	3183
ARAB DAM OVERFLOW	M3	0	0	0	0	0	0	0	0	0		0	0	0	0
ARAB DAM TOTAL OUTFLOW	M3	7700	18460	20550	19620	11130	7350	4050	4050	4000	4150	0	0	0	0
DIFFERENCE STORAGE	M3	5620	6060	19500	0	0	3200	13560	4200	0	-3290	214320	2481	89	7654
W.ARAB COURSE TRIBUTARY	M3	7063	7018	7014	6968	6968	6968	6916	6918	6818	6368	186650	2161	77	6661
W.ARAB COURSE TO KAC R	M3	8640	5864	8640	7344	0	0	0	0	0	0	201754	2335	83	7204
W.ARAB COURSE TO W.R SOI	M3		2772		1296							128808	1491	53	4600
W.ARAB COURSE TO WASTE	M3	1728	1728	1728	1728	10368	10368	10368	10368	10368	10368	12204	141	5	436
ZIGLAB DAM LEVEL	M	121.24	121.39	121.43	121.45	121.50	121.62	121.72	121.82	121.92	122.01	149292	1728	62	5332
ZIGLAB DAM STORAGE (BOD)	M3	3268720	3295720	3297440	3291600	3302000	3326560	3347760	3368560	3389360	3402570				
ZIG D INFLOW FROM W.ZIGLAB	M3	24500	24500	24500	24500	27773	23613	23613	23492	24000	24500	3430930			
ZIG D INFLOW FROM KAC-R	M3	0	0	0	0	0	0	0	0	0	0	-481030	-5567	-195	-17180
ZIGLAB DAM TOTAL INFLOW	M3	24500	24500	24500	24500	27773	23613	23613	23492	24000	24500	643248	7445	268	22973
ZIGLAB DAM EVAPORATION	M3	200	200	200	200	260	200	250	200	200	200	0	0	0	0
ZIGLAB DAM CAR TO KAC-R	M3	0										-643248	7445	268	22973
ZIGLAB DAM CAR TO REG	M3	11287	11287	17527	11287	0	0	0	0	1544		5660	65	2	200
ZIGLAB DAM SEEPAGE	M3	2613	2613	2613	2613	2613	2613	2613	2542	2542	2540	0	0	0	0
ZIGLAB DAM GATE	M3	0	0	0	0	0	0	0	0	0		86263	998	36	3081
ZIGLAB DAM OVERFLOW	M3	0	0	0	0	0	0	0	0	0		70805	820	29	2529
ZIGLAB DAM TOTAL OUTFLOW	M3	14100	14100	20140	14100	2813	2813	2813	2742	4086	3140	0	0	0	0
DIFFERENCE STORAGE	M3	0	0	0	0	0	0	0	-458	0	0	0	0	0	0
W.ZIGLAB COURSE TRIBUTARY	M3	0	0	0	0	0	0	0	0			162668	1883	67	5818
W ZIGLAB COURSE TO KAC-R	M3	0	0	0	0	0	0	0	0			-459	-5	-0	-16
W ZIGLAB COURSE TO W.R SOI	M3	0	0	0	0	0	0	0	0			0	0	0	0
W.ZIGLAB COURSE TO WASTE	M3	2613	2613	2613	2613	2613	2613	2613	2542	2542	2540	0	0	0	0
TALAL DAM LEVEL	M	165.49	165.59	165.71	165.82	165.92	165.94	165.98	166.00	166.05	166.15	70805	820	29	2529
TALAL DAM STORAGE (BOD)	M3	52343900	52551900	52808100	53040200	53251300	53293400	53377830	53420000	53526000	53718000				
TALAL.D INFLOW FROM Z.RIVER	M3	225248	265513	241558	201896	340224	332543	295909	315374	247756	306230	51971260			
TALAL DAM EVAPORATION	M3	9647	7747	6857	6822	3516	5169	7835	4300	6122	7876	-7312200	-84632	-3023	-261150
TALAL DAM SEEPAGE	M3	4601	4691	4601	4674	4674	4674	4674	4674	4674	4674	5439043	109218	3901	337109
TALAL DAM GATE	M3	0	0	0	59400	245440	237820	241250	159800	16960	60430	146147	2134	76	6566
TALAL DAM OVERFLOW	M3		0									128366	1486	53	4515
TALAL DAM TOTAL OUTFLOW	M3	14248	12243	5458	70896	298021	248163	253709	205374	25756	73030	-1818130	-20997	750	64790
DIFFERENCE STORAGE	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Z.RIVER COURSE TRIBUTARY	M3	6913	6913	6913	6913	6913	6913	6913	6913	6913	6913	2126243	24616	879	75959
Z RIVER COURSE TO KAC-S	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Z.RIVER COURSE TO M.G ACI	M3	0	0	0	0	202400	129933	124824	114541	64958	0	193526	2240	80	6913
Z RIVER COURSE TO M.G ACII	M3	0	0	0	0	21600	23600	34560	34560	25570	25570	724926	8390	300	25891
Z RIVER COURSE TO M.G.S.C	M3	0	0	0	0	72720	82700	86400	86400	60410	34560	521296	6034	215	18618
Z.RIVER COURSE TO W R SOI	M3	0	0	0	0	0	0	0	0	0	0	650980	7534	269	23219
Z RIVER COURSE TO WASTE	M3	11513	11513	11513	70586	4306	12953	3042	-28115	-92612	11546	0	0	0	0
												0	0	0	0
												238420	2764	99	8529

MONTH BASIN YEAR 1994

CONTROLED RESOURCES/ DAMS		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1993 DAM LEVEL	M	110.37	110.27	110.16	110.05	109.95	109.85	109.59	109.49	109.4	109.31	109.19	109.1	101.91	104.73	104.64	108.57	110.50	104.49
1993 DAM STORAGE (BOD)	M3	13143000	13211000	13283000	13368000	13435000	13511000	13699000	13771000	13836000	13902000	13981000	14055000	14172000	14326000	14339000	14881000	14895000	14570000
1993 DAM INFLOW FROM W 1993	M3	350	350	350	350	350	103369	350	350	350	350	57370	120700	87570	350	350	350	350	350
1993 DAM INFLOW FROM EAC-M	M3	91440	91430	93930	91350	95320	84640	94900	92830	95060	91750	71583	67370	70383	71470	70130	67930	84700	93510
1993 DAM TOTAL INFLOW	M3	91790	91780	91280	91700	95670	192008	95250	93150	95410	92100	129953	188370	157953	71820	71170	67283	85050	90860
1993 DAM EVAPORATION	M3	800	850	700	850	500	350	500	700	500	500	250	0	250	250	500	800	500	900
1993 DAM CAR TO EAC-M	M3																		
1993 DAM CAR TO BEG	M3	1900	0	0	500	2630	0	500	930	4550	0	4500	0	0	0	0	0	0	11000
1993 DAM SEEPAGE	M3	3550	3550	3550	3600	3600	3650	3650	3650	3650	3700	3700	3700	3700	3700	3750	3750	3750	3750
1993 DAM GATE	M3																		
1993 DAM OVERFLOW	M3																		
1993 DAM TOTAL OUTFLOW	M3	6250	4400	4250	4950	6700	4000	4650	5250	8100	4200	8550	3700	3950	3950	4250	4550	4450	15650
DIFFERENCE STORAGE	M3	14367	9370	8030	15430	16370	0	18630	2900	20410	900	50430	67970	0	51870	-38010	11730	6400	15210
W 1993 COURSE TRIBUTARY	M3	7018	7018	7018	7458	7451	7458	7468	7454	7458	7458	7458	7458	7458	7468	7468	7458	7458	7458
W 1993 COURSE TO EAC-M	M3	8640	8640	8640	8640	8640	8640	8640	8640	8640	8640	8640	8640	8640	8640	8640	8640	8640	8640
W.1993 COURSE TO W.E SOI	M3																		
W.1993 COURSE TO WASTE	M3	1928	1928	1928	2428	2428	2428	2428	2428	2428	2528	2528	2528	2528	2528	2528	2528	2528	2528
SIGLAS DAM LEVEL	M	122.95	122.87	122.75	122.63	122.38	122.43	122.5	122.55	122.61	122.68	122.73	122.81	122.95	123.07	123.20	123.28	123.36	123.41
SIGLAS DAM STORAGE (BOD)	M3	3430030	3456390	3472350	3485630	3537465	3520810	3539530	3552850	3574310	3587550	3603910	3630230	3653650	3691690	3726430	3747760	3763120	3742470
SIGLAS INFLOW FROM W.SIGLAS	M3	24502	24502	24500	24502	24500	24500	24500	24502	24500	24500	32512	32512	35182	37452	24502	25569	24500	23899
SIGLAS INFLOW FROM EAC-M	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SIGLAS DAM TOTAL INFLOW	M3	24502	24502	24500	24502	24500	24500	24500	24502	24500	24500	32512	32512	35182	37452	24502	25569	24500	23899
SIGLAS DAM EVAPORATION	M3	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
SIGLAS DAM CAR TO EAC-M	M3																		
SIGLAS DAM CAR TO BEG	M3	0	0	8008	0	8001	2668	8008	0	8008	8001	0	0	0	0	0	0	6912	0
SIGLAS DAM SEEPAGE	M3	2942	2942	2942	2942	2942	2942	2942	2942	2942	2942	2942	2942	2942	2942	2942	4009	4309	4009
SIGLAS DAM GATE	M3																		
SIGLAS DAM OVERFLOW	M3																		
SIGLAS DAM TOTAL OUTFLOW	M3	3142	3142	11150	3142	11150	5810	11150	3142	11150	11150	3142	3142	3142	3142	3142	4209	11150	4209
DIFFERENCE STORAGE	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W SIGLAS COURSE TRIBUTARY	M3																		
W SIGLAS COURSE TO EAC-M	M3																		
W.SIGLAS COURSE TO W E SOI	M3																		
W.SIGLAS COURSE TO WASTE	M3	2942	2942	2942	2942	2942	2942	2942	2942	2942	2942	2942	2942	2942	2942	2942	4009	4309	4009
TALAL DAM LEVEL	M	166.26	166.36	166.47	166.55	166.56	166.57	166.7	166.9	167	167.09	167.11	167.25	167.37	167.81	168.05	168.21	168.35	168.45
TALAL DAM STORAGE (BOD)	M3	53971200	54118200	54216400	54586000	54507200	54628400	54904000	55328000	55543000	55730800	55921600	56070000	56321300	57320013	57766500	58107300	58405500	58618500
TALAL.D INFLOW FROM Z RIVER	M3	293674	255917	257979	250560	193968	200275	430354	512179	298339	277258	277171	279763	391390	1039565	451808	383735	363658	256176
TALAL DAM EVAPORATION	M3	2000	2000	2000	2000	3000	2300	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
TALAL DAM SEEPAGE	M3	4800	4800	4300	4800	4300	4800	4300	4300	4300	4300	4300	4300	4300	4300	4300	4300	4300	4300
TALAL DAM GATE	M3	43200	43200	43200	172800	172800	194400	172800	86400	86400	86400	172800	43200	43200	43200	43200	43200	43200	43200
TALAL DAM OVERFLOW	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TALAL DAM TOTAL OUTFLOW	M3	50000	50000	50000	179600	179600	26243	179600	93300	93200	93200	175600	50000	50000	50000	50000	50000	50000	50000
DIFFERENCE STORAGE	M3	26674	-22283	33379	19760	-6432	-101565	-173243	206979	14333	-6742	-50829	-14237	-617610	543065	71004	33515	108658	35776
Z RIVER COURSE TRIBUTARY	M3	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912
Z.RIVER COURSE TO EAC-S	M3	0	0	0	86450	85450	55037	59011	0	0	0	0	0	0	0	0	0	0	0
Z.RIVER COURSE TO M.G.ECII	M3	25920	25920	25920	34560	38880	38880	34560	34560	34560	34560	34560	0	25920	25920	25920	25920	25920	25920
Z RIVER COURSE TO M.G.S.C	M3	34560	17280	17280	77760	77760	86400	77760	34560	34560	34560	34560	0	17280	17280	17280	17280	17280	17280
Z RIVER COURSE TO W.E SOI	M3																		
Z RIVER COURSE TO WASTE	M3	-5568	11712	11712	-14208	-11520	-149165	13181	28992	28992	28992	115392	54912	11712	11712	11712	11712	11712	11712

CONTROLED RESOURCES/ DAMS		19	20	21	22	23	24	25	26	27	28	29	30	31	TOTAL M3	TOTAL L/S	AVERAGE L/S	AVERAGE M3/DAY
ARAB DAM LEVEL	M	108.32	108.22	108.12	108.02	107.92	107.85	107.66	107.61	107.75	107.67	107.59	107.50	107.42	15373000			
ARAB DAM STORAGE (BOD)	M3	14503000	14704000	14719000	14853000	14938000	14938000	14939000	14945000	15048000	15116000	15191000	15244000	15305000	-2233000	-25865	-824	-72032
ARAB DAM INFLOW FROM W ARAB	M3	350	350	350	350	350	350	350	350	350	350	350	350	350	337150	4353	141	12176
ARAB DAM INFLOW FROM RAC-B	M3	92120	92780	91580	0	0	81550	90250	68300	41700	33650	92730	92380	84050	2458130	28451	933	79295
ARAB DAM TOTAL INFLOW	M3	92470	93130	91930	350	350	81900	90600	68650	42050	34000	93140	92730	84400	2795280	32363	1059	91471
ARAB DAM EVAPORATION	M3	850	850	900	800	850	1100	1150	1200	1200	1300	1350	1300	1250	24150	280	9	778
ARAB DAM CAR TO RAC-B	M3						0								0	0	0	0
ARAB DAM CAR TO BEG	M3	2900	0	0	600	0	0	0	3200	8700	13300	12500	13500	16650	95550	1106	36	3082
ARAB DAM SEEPAGE	M3	3750	3600	3900	3850	3850	3350	3300	3950	3950	4350	4300	4300	4000	116700	1351	43	3763
ARAB DAM GATE	M3						0								0	0	0	0
ARAB DAM OVERFLOW	M3						0								0	0	0	0
ARAB DAM TOTAL OUTFLOW	M3	7600	4550	4700	5250	4700	5300	5050	4350	14850	18500	17750	18100	21850	236430	2736	88	7626
DIFFERENCE STORAGE	M3	10870	13480	13280	10100	2650	9300	-1450	0	3	0	22390	12350	-1450	366130	4239	137	11812
W.ARAB COURSE TRIBUTARY	M3	7450	7450	7450	7450	7450	7450	7450	7450	7450	7450	7450	7450	7450	230150	2664	85	7424
W.ARAB COURSE TO RAC-B	M3	8640	8640	8640	8640	8640	8640	8640	8640	8640	8640	8640	8640	8640	267840	3100	100	8640
W.ARAB COURSE TO W.R SOI	M3														0	0	0	0
W.ARAB COURSE TO WASTE	M3	2670	2620	2620	2670	2670	2720	2720	2770	2770	2820	2820	2820	2820	79010	915	30	2549
ZIGLAB DAM LEVEL	M	123.63	123.51	123.53	123.57	123.61	123.61	123.61	123.75	123.76	123.78	123.79	123.70	123.66	3841210			
ZIGLAB DAM STORAGE (BOD)	M3	3831160	3809170	3814510	3825190	3835470	3843830	3854550	3873250	3875920	3882260	3883930	3859930	3843220	-411230	-4759	-154	-13256
ZIGLAB INFLOW FROM W.ZIGLAB	M3	22190	23000	23000	23000	23000	23000	22890	23000	24500	24500	24500	24500	24500	786834	9107	294	25382
ZIGLAB INFLOW FROM RAC-B	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ZIGLAB DAM TOTAL INFLOW	M3	22190	23000	23000	23000	23000	23000	22890	23000	24500	24500	24500	24500	24500	786834	9107	294	25382
ZIGLAB DAM EVAPORATION	M3	200	200	200	250	200	200	200	200	200	300	1200	1200	1200	9200	106	3	297
ZIGLAB DAM CAR TO RAC-B	M3														0	0	0	0
ZIGLAB DAM CAR TO BEG	M3	10530	13450	4111	4111	10711	4111	0	16121	14350	37521	43321	29971	27201	253130	2930	96	8329
ZIGLAB DAM SEEPAGE	M3	4009	4009	4009	4009	4009	4009	4009	4009	4009	4009	4009	4009	4009	108274	1253	43	3433
ZIGLAB DAM GATE	M3														0	0	0	0
ZIGLAB DAM OVERFLOW	M3														0	0	0	0
ZIGLAB DAM TOTAL OUTFLOW	M3	14739	17660	12320	12320	14990	12320	4209	20330	19163	21830	15530	35130	32510	375651	4348	140	12358
DIFFERENCE STORAGE	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W ZIGLAB COURSE TRIBUTARY	M3														0	0	0	0
W ZIGLAB COURSE TO RAC-B	M3														0	0	0	0
W.ZIGLAB COURSE TO W.R SOI	M3														0	0	0	0
W.ZIGLAB COURSE TO WASTE	M3	4009	4009	4009	4009	4009	4009	4009	4009	4009	4009	4009	4009	4009	108274	1253	43	3433
TALAL DAM LEVEL	M	158.53	158.51	158.61	158.63	158.62	158.59	158.57	158.56	158.56	158.55	167.47	168.41	168.39	58415100			
TALAL DAM STORAGE (BOD)	M3	54783300	58874100	58959100	59000100	59080600	59146700	59174100	59152400	59152400	59131500	59703100	58537000	58410700	-1476900	-51316	-1671	-144415
TALAL D INFLOW FROM I RIVER	M3	198379	220147	40176	218074	221270	223171	197683	228474	259200	237853	345630	217469	214704	9246960	107025	3482	298233
TALAL DAM EVAPORATION	M3	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	62000	718	23	2000
TALAL DAM SEEPAGE	M3	4350	4300	4300	4200	4300	4300	4300	4100	4100	4300	4300	4300	4300	143800	1732	56	4500
TALAL DAM GATE	M3	41200	—	175500	194100	259200	179549	180430	259100	259200	266717	345600	326000	259200	4143045	48010	1549	133809
TALAL DAM OVERFLOW	M3	0--		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0	0	0	0
TALAL DAM TOTAL OUTFLOW	M3	50000	6800	182300	201200	266000	186339	187250	266000	266000	273517	352400	330800	266000	4353836	50450	1627	140639
DIFFERENCE STORAGE	M3	63273	128147	-183014	36466	19170	79433	31633	-37126	14500	92543	99500	-7031	-8696	411174	4759	154	13264
Z.RIVER COURSE TRIBUTARY	M3	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	214272	2480	80	6912
Z RIVER COURSE TO RAC-B	M3	33254	67306	51149	94603	94003	139663	10266	108518	103683	98755	139363	144306	139363	1582582	18294	590	51000
Z.RIVER COURSE TO H.G.SCI	M3	25920	25920	43200	43200	51840	34560	30240	47520	47520	47520	47520	47520	51840	1062700	12300	397	34281
Z.RIVER COURSE TO H.G.SCII	M3	17280	17280	95040	95040	103680	103680	103680	103680	103680	103680	103680	103680	103680	1788480	20700	668	57693
Z.RIVER COURSE TO H.G.S.C	M3														0	0	0	0
Z.RIVER COURSE TO W.R SOI	M3														0	0	0	0
Z.RIVER COURSE TO WASTE	M3	-21552	-98794	-2177	-26131	21383	-86652	-31914	11194	16032	-28434	66743	39706	-23971	78791	914	29	2548

MONTH APRIL YEAR 1994

POLED RESOURCES/ DAMS		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
ARAB DAM LEVEL	M	107.33	107.24	107.18	107.12	107.06	106.96	106.93	106.86	106.81	106.73	106.66	106.61	106.57	106.59	106.60	106.57	106.57	106.61	106.69
ARAB DAM STORAGE (BOD)	M3	15373000	15441000	15487000	15533000	15579000	15655000	15678000	15732000	15770000	15831000	15885000	15924000	15955000	15947000	15931000	15955000	15955000	15924000	15862000
ARAB DAM INFLOW FROM W.	M3	350	350	350	350	350	350	350	350	350	350	250	250	250	250	250	250	250	250	250
ARAB DAM INFLOW FROM K	M3	91030	71140	82610	80330	91190	40630	62230	67410	88040	87790	86750	76300	40570	38090	36770	50890	39400	2910	0
ARAB DAM TOTAL INFLOW	M3	91380	71490	82960	80680	91540	41030	62580	67760	88390	88140	87000	76550	40820	38340	37020	51140	39650	3160	250
ARAB DAM EVAPORATION	M3	1000	1100	1150	1650	4300	2500	2500	3270	3050	2700	4300	4400	4530	4900	3840	3160	3550	3852	3900
ARAB DAM CAR TO KAC-N	M3	0								0						0				
ARAB DAM CAR TO REG	M3	1100	15100	11800	8000	7800	15900	14300	1600	20800	25900	41700	43600	45200	50600	5500	54000	71400	61300	61500
ARAB DAM SEEPAGE	M3	4000	4050	4050	4050	4100	4100	4100	4100	4150	4150	4150	4150	4150	4150	4150	4150	4150	4150	4150
ARAB DAM GATE	M3	0				0														
ARAB DAM OVERFLOW	M3					0														
ARAB DAM TOTAL OUTFLOW	M3	6100	20250	17000	13700	16200	22500	21400	8970	28000	32750	50150	52150	54230	59650	13490	61310	79100	72100	69850
DIFFERENCE STORAGE	M3	17280	5240	19960	20980	-660	-4470	-12820	20790	-610	1390	-2150	-6600	-5410	-5310	-470	-10170	-6450	-7640	-600
W.ARAB COURSE TRIBUTARY	M3	6368	6318	6318	6318	6268	6268	6268	6268	6218	6218	6218	6218	6218	6218	6218	6218	6218	6218	6218
W.ARAB COURSE TO KAC-N	M3	8190	8640	5865	8640	7056	8640	7376	8190	7048	5868	8640	8192	8640	8640	8190	8640	5868	8640	7920
W.ARAB COURSE TO W.E SO	M3	450		2772		1584	0	864	450	1592	2772	0	2448	0	0	450	0	2772	0	720
W.ARAB COURSE TO WASTE	M3	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728
ZIGLAB DAM LEVEL	M	123.63	123.74	123.74	123.76	123.77	123.77	123.72	123.7	123.77	123.7	123.57	123.5	123.47	123.42	123.38	123.63	123.37	123.25	123.13
ZIGLAB DAM STORAGE (BO	M3	3941210	3970580	3870580	3875920	3878590	3878590	3865240	3859900	3878590	3859900	3825190	3806500	3799190	3785140	3774160	3785140	3771790	3739750	3707710
ZIG.D INFLOW FROM W.ZIG	M3	34539	24500	24500	24500	24500	24500	24500	23899	24500	24500	24500	24500	24500	24500	15889	24500	24500	24500	24500
ZIG.D INFLOW FROM KAC-N	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ZIGLAB DAM TOTAL INFLO	M3	34539	24500	24500	24500	24500	24500	24500	23899	24500	24500	24500	24500	24500	24500	15889	24500	24500	24500	24500
ZIGLAB DAM EVAPORATION	M3	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200
ZIGLAB DAM CAR TO KAC-	M3									0										
ZIGLAB DAM CAR TO REG	M3	0	19291	13951	16621	19291	32641	24631	0	37981	54001	37981	27301	32641	29971	0	32641	51331	51331	40651
ZIGLAB DAM SEEPAGE	M3	4009	4009	4009	4009	4009	4009	4009	4009	4009	4009	4009	4009	4009	4009	4009	4009	4009	4009	4009
ZIGLAB DAM GATE	M3						0													
ZIGLAB DAM OVERFLOW	M3						0													
ZIGLAB DAM TOTAL OUTFL	M3	5209	24500	19160	21830	21500	37850	29840	5209	43190	59210	43190	32510	37850	35180	5209	37850	56549	56549	45860
DIFFERENCE STORAGE	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W.ZIGLAB COURSE TRIBUTAR	M3						0													
W.ZIGLAB COURSE TO KAC-N	M3						0													
W.ZIGLAB COURSE TO W.E S	M3						0													
W.ZIGLAB COURSE TO WASTE	M3	4009	4009	4009	4009	4009	4009	4009	4009	4009	4009	4009	4009	4009	4009	4009	4009	4009	4009	4009
TALAL DAM LEVEL	M	168.37	168.34	168.3	168.26	168.21	168.25	168.25	168.2	168.1	168	167.9	167.81	167.71	167.59	167.47	167.35	167.23	167.11	167.98
TALAL DAM STORAGE (BOD)	M3	58443100	58384200	58299000	58211800	58171200	58192500	58192500	58086000	57873000	57660000	57448000	57257200	57045200	56790800	56536400	56282000	56027600	55773200	55497600
TALAL.D INFLOW FROM Z.E	M3	234393	311568	222286	183082	192995	202825	199095	194097	191061	215085	228499	203149	205286	207849	203723	199649	201603	186409	186315
TALAL DAM EVAPORATION	M3	6147	8372	8240	20756	18670	16600	12450	12432	12396	14420	24634	20484	24523	24466	20340	16266	18220	24226	24132
TALAL DAM SEEPAGE	M3	5846	5846	5846	5846	5865	5865	5865	5865	5865	5865	5865	5865	5865	5783	5783	5783	5783	5783	5783
TALAL DAM GATE	M3	286200	282600	293400	199080	147160	180360	287280	388800	388800	406800	388800	388800	429300	432000	432000	432000	432000	432000	432000
TALAL DAM OVERFLOW	M3																			
TALAL DAM TOTAL OUTFLOW	M3	298293	296768	307486	225682	171695	202825	305595	407097	407061	427085	419299	415149	459688	462249	458123	454049	456003	463009	451915
DIFFERENCE STORAGE	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Z.RIVER COURSE TRIBUTAR	M3	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912
Z.RIVER COURSE TO KAC-S	M3	103680	123638	133920	103680	144374	155779	167011	75859	63156	103594	113443	118541	115080	134093	144461	144461	144461	144461	144461
Z.RIVER COURSE TO M.G.E	M3	51840	51840	51840	34560				77760	69120	82080	69120	60480	60480	60480	60480	60480	60480	60480	60480
Z.RIVER COURSE TO M.G.E	M3	129600	103680	103680	60480				216000	194720	233280	190080	190080	191100	203040	203040	203040	203040	203040	203040
Z.RIVER COURSE TO M.G.S	M3	0	0	0	0	0	0	0	0	0	0	0	0							
Z.RIVER COURSE TO W E S	M3	0																		
Z.RIVER COURSE TO WASTE	M3	13836	16200	16718	13114	15563	37358	13046	33958	70579	621	28934	[illegible]	[illegible]	[illegible]					

RESOURCES/ DAMS		20	21	22	23	24	25	26	27	28	29	30	31	M3	L/S	L/S	M3/DAY
LEVEL	M	106.78	106.16	106.94	107.04	107.12	107.16	107.20	107.29	107.37	107.46	107.54		15131000			
DAM STORAGE (BOD)	M3	15793000	15732000	15670000	15594000	15533000	15502000	15472000	15403000	15343000	15275000	15222000	15131000	242000	2801	90	7806
DAM INFLOW FROM W.ARAB	M3	250	250	250	250	250	250	250	250	250	250	250	0	8500	98	3	274
DAM INFLOW FROM KAC-A	M3	0	0	0	0	37850	36320	7770	0	0	0	0		1216070	14075	454	39228
DAM TOTAL INFLOW	M3	250	250	250	250	38100	36570	8020	250	250	250	250	0	1224570	14173	457	39502
DAM EVAPORATION	M3	4200	41050	4100	4050	4000	4000	3900	3850	3900	3800	3600	0	140450	1626	52	4531
DAM CAR TO KAC-A	M3													0	0	0	0
DAM CAR TO NEG	M3	72400	84400	86600	73600	81800	66800	82600	75700	80600	72800	66800		1425500	16499	532	45984
DAM SEEPAGE	M3	4150	4150	4150	4150	4150	4100	4100	4100	4100	4100	4100		123550	1430	46	3985
DAM GATE	M3													0	0	0	0
DAM OVERFLOW	M3													0	0	0	0
DAM TOTAL OUTFLOW	M3	80750	129600	94850	81800	89950	74900	90600	83650	88600	80700	94500	0	1689500	19554	631	54500
DIFFERENCE STORAGE	M3	-19500	-67350	-18600	-26550	-20850	-8330	-13580	-23400	-20350	-27450	-3250	0	-227930	-2580	-83	-7191
W.ARAB COURSE TRIBUTARY	M3	6218	6218	6218	6218	6216	6268	6268	6268	6268	6268	6268		187490	2170	70	6048
W.ARAB COURSE TO KAC-A	M3	8640	8640	8190	8640	5863	8640	7920	8640	8640	8190	8640		237934	2754	89	7675
W.ARAB COURSE TO W.E SOU	M3	0	0	450	0	2772	0	720	0	0	450	0		21266	246	8	686
W.ARAB COURSE TO WASTE	M3	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	0	51840	600	19	1672
ZIGLAB DAM LEVEL	M	123.05	122.90	122.95	122.93	122.96	122.90	122.80	122.73	122.69	122.66	122.60		3568870			
ZIGLAB DAM STORAGE (BOD)	M3	3684350	3664290	3659650	3654310	3652120	3619300	3619500	3609000	3590430	3582220	3566200	3568870	272340	3153	102	8785
ZIGLAB INFLOW FROM W ZIGLAB	M3	24500	24500	24500	24500	24500	24500	24500	24500	24500	24500	24500	0	735867	8517	275	23738
ZIGLAB INFLOW FROM KAC-A	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ZIGLAB DAM TOTAL INFLOW	M3	24500	24500	24500	24500	24500	24500	24500	24500	24500	24500	24500	0	735867	8517	275	23738
ZIGLAB DAM EVAPORATION	M3	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200		36000	417	13	1161
ZIGLAB DAM CAR TO KAC-A	M3													0	0	0	0
ZIGLAB DAM CAR TO NEG	M3	40651	24631	24631	11251	32311	4893	29891	37861	27501	35311	16621		451937	9860	314	27482
ZIGLAB DAM SEEPAGE	M3	4009	4009	4009	4009	4009	4009	4009	4009	4009	4009	4009		120270	1392	45	3860
ZIGLAB DAM GATE	M3													0	0	0	0
ZIGLAB DAM OVERFLOW	M3													0	0	0	0
ZIGLAB DAM TOTAL OUTFLOW	M3	45860	29840	29840	16490	37520	54204	35100	43070	32710	40520	21830	0	1008207	11669	376	32523
DIFFERENCE STORAGE	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W.ZIGLAB COURSE TRIBUTARY	M3													0	0	0	0
W.ZIGLAB COURSE TO KAC-A	M3													0	0	0	0
W.ZIGLAB COURSE TO W.E SOU	M3													0	0	0	0
W.ZIGLAB COURSE TO WASTE	M3	4009	4009	4009	4009	4009	4009	4009	4009	4009	4009	4009	0	120270	1392	45	3860
TALAL DAM LEVEL	M	166.85	166.72	166.59	166.47	166.36	166.25	166.14	166.03	165.92	165.83	165.72	0.00	52597100			
TALAL DAM STORAGE (BOD)	M3	55222000	54946400	54670800	54416400	54183200	53950000	53716800	53483600	53251200	53061300	52829200	52597100	5851000	67720	2185	188742
TALAL.D INFLOW FROM C.RIVER	M3	156221	188225	182228	181265	177333	172330	177227	181898	185062	171278	156026	0	5831944	67499	2177	188127
TALAL DAM EVAPORATION	M3	24036	26042	23945	19882	15853	11850	15747	19618	23462	19498	19366		547125	6332	204	17649
TALAL DAM SEEPAGE	M3	5783	5783	5783	5782	5880	5836	5880	5836	5836	5836	5880		175159	2027	65	5650
TALAL DAM GATE	M3	432000	432000	406800	388800	388800	388800	388800	388800	345600	378000	362880		10960660	126859	4092	353570
TALAL DAM OVERFLOW	M3													0	0	0	0
TALAL DAM TOTAL OUTFLOW	M3	461821	463825	436528	414465	410533	406530	410427	414298	374942	403378	386126	0	11682944	135215	4362	376869
DIFFERENCE STORAGE	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C.RIVER COURSE TRIBUTARY	M3	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912		207360	2400	77	6689
C.RIVER COURSE TO KAC-C	M3	144461	144461	144461	144461	144461	144461	144461	144461	144461	144461	134006		3956771	45796	1477	127638
C.RIVER COURSE TO N.G.SCH	M3	60480	60480	60480	53136	53136	53136	53136	51600	51600	51600	51600		1572384	18199	587	50722
C.RIVER COURSE TO N.G.SCH	M3	216000	216000	216000	178848	178848	178848	178848	172000	172000	181440	164480		4895552	56661	1828	157921
C.RIVER COURSE TO N.G.S.C	M3													0	0	0	0
C.RIVER COURSE TO W.E SOE	M3													0	0	0	0
C.RIVER COURSE TO WASTE	M3	23754	23754	-1446	25050	25147	25147	25147	33531	-9669	13291	21586	0	918472	10630	343	29628

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CONTROLED RESOURCES/ DAMS		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
KRAB DAM LEVEL	M	107.65	107.71	107.79	107.9	107.99	108.1	108.18	108.27	108.31	108.46	108.54	108.65	108.75	108.85	108.96	109.07	109.22	109.42	109.63
KRAB DAM STORAGE (BOD)	M3	15131000	15071000	15025000	14913000	14576000	14794000	14734000	14567000	14600000	14526000	14154000	14385000	14312000	14230000	14153000	14052000	13946000	13822000	13692000
KRAB DAM INFLOW FROM W KRAB	M3	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250
KRAB DAM INFLOW FROM KAC-N	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KRAB DAM TOTAL INFLOW	M3	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250
KRAB DAM EVAPORATION	M3	3600	3700	3150	3150	3300	3250	4100	3700	3320	3300	3200	3100	4300	4200	4200	4200	4700	4150	4150
* KRAB DAM CAR TO KAC-N	M3																			
* KRAB DAM CAR TO SEG	M3	52250	37450	76300	60600	75250	52950	53940	59250	66100	51500	75000	55100	73000	66125	26210	42990	43940	67060	47690
KRAB DAM SEEPAGE	M3	4100	4150	4100	4100	4050	4050	4050	4050	4050	4050	4050	4050	4050	4050	69710	65010	72560	53530	52260
KRAB DAM GATE	M3															4050	4050	4050	4050	4050
KRAB DAM OVERFLOW	M3																			
KRAB DAM TOTAL OUTFLOW	M3	59350	45250	83250	67250	83250	60250	67090	67000	74250	59250	83250	73250	81250	74250	95250	116250	124250	116250	104250
DIFFERENCE STORAGE	M3	300	0	0	0	0	0	200	200	0	3000	-3000	0	1000	3000	-4000	0	0	-4000	0
W.KRAB COURSE TRIBUTARY	M3	7453	7453	7453	7453	7453	7453	7453	7453	7453	7453	7453	7453	7453	7453	7453	7453	7453	7453	7453
W.KRAB COURSE TO KAC-N	M3	8640	8640	8640	8640	8640	8640	8640	8640	8640	8640	8640	8640	8640	8640	8640	8640	8640	8640	8640
W.KRAB COURSE TO W.R SOI	M3																			
W.KRAB COURSE TO WASTE	M3	2923	2923	2923	2923	2923	2923	2923	2923	2923	2923	2923	2923	2923	2923	2923	2923	2923	2923	2923
ZIGLAB DAM LEVEL	M	122.61	122.63	122.74	122.63	122.53	122.52	122.47	122.45	122.4	122.36	122.35	122.3	122.23	122.15	122.16	122.05	121.96	121.87	121.93
ZIGLAB DAM STORAGE (BOD)	M3	3568870	3587560	3603530	3587560	3563530	3541840	3531430	3526150	3512300	3502120	3503460	3436100	3459000	3446050	3443720	3415350	3392950	3406000	3391440
ZIGLAB INFLOW FROM W.ZIGLAB	M3	23899	21229	24500	24500	22500	22500	22500	22500	22500	22500	22500	22500	22500	22500	22500	22500	22500	22500	22500
ZIGLAB INFLOW FROM KAC-N	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ZIGLAB DAM TOTAL INFLOW	M3	23899	21229	24500	24500	22500	22500	22500	22500	22500	22500	22500	22500	22500	22500	22500	22500	22500	22500	22500
ZIGLAB DAM EVAPORATION	M3	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200
ZIGLAB DAM CAR TO KAC-N	M3																			
ZIGLAB DAM CAR TO REG	M3	0	0	35331	43321	35981	30641	23631	30641	27971	15951	34651	13991	30541	14621	45651	35661	8371	31851	36011
ZIGLAB DAM SEEPAGE	M3	4009	4009	4009	4009	4009	4009	4009	4009	4009	4009	4009	4009	4009	4009	4009	4009	4009	4009	4009
ZIGLAB DAM GATE	M3																			
ZIGLAB DAM OVERFLOW	M3																			
ZIGLAB DAM TOTAL OUTFLOW	M3	5209	5209	40520	48530	41190	35850	27840	35850	33180	21160	39360	13200	35550	19130	51570	43870	14180	35060	41220
DIFFERENCE STORAGE	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	300	0	0
W.ZIGLAB COUSE TRIBUTARY	M3																			
W.ZIGLAB COUSE TO KAC-N	M3																			
W.ZIGLAB COUSE TO W.R SOT	M3																			
W.ZIGLAB COUSE TO WASTE	M3	4009	4009	4009	4009	4009	4009	4009	4009	4009	4009	4009	4009	4009	4009	4009	4009	4009	4009	4009
TALAL DAM LEVEL	M	165.61	165.5	165.39	165.29	165.19	165.11	165.02	164.93	164.84	164.75	164.67	164.59	164.50	164.41	164.32	164.23	164.14	164.05	163.97
TALAL DAM STORAGE (BOD)	M3	52597100	52365000	52132900	51921900	51710900	51542100	51352700	51162300	50972400	50782500	50633700	50444900	50255000	50065100	49875200	49685300	49495400	49305500	49137000
TALAL.D INFLOW FROM E.RIVER	M3	155586	144170	155434	144962	187120	156333	171652	162972	161010	183968	187682	177620	167340	161308	162568	166370	163513	160268	160965
TALAL DAM EVAPORATION	M3	19366	17370	19234	13472	13380	15253	19012	18972	17010	18869	22642	20720	16920	16888	18723	22430	24253	26068	26015
TALAL DAM SEEPAGE	M3	5740	5740	5740	5540	5580	5580	5580	5580	5580	5580	5520	5520	5520	5520	5520	5520	5520	5520	5170
TALAL DAM GATE	M3	362880	353160	341460	336960	336960	325400	336960	328320	328320	328320	328320	341280	331800	328800	328320	328320	323640	297130	276430
TALAL DAM OVERFLOW	M3																			
TALAL DAM TOTAL OUTFLOW	M3	387986	376270	366434	355963	355920	345233	361552	352872	350910	352768	356432	367520	357210	351208	352568	356270	353113	328768	307965
DIFFERENCE STORAGE	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E.RIVER COURSE TRIBUTARY	M3	6912	6912	6912	6912	6912	6913	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912
E.RIVER COURSE TO KAC-S	M3	128822	128822	129822	128822	128822	113413	123638	123638	118454	123552	128822	118368	128822	123638	123639	123638	123638	118454	118454
E.RIVER COURSE TO K.G.ZCI	M3	51840	51840	51840	47520	47520	43200	45360	43200	43200	44196	43472	43472	45360	45360	45360	45360	45360	43472	43472
E.RIVER COURSE TO K.G.ZCII	M3	164480	163480	164480	161586	161586	146830	159840	155520	155520	149304	152928	152928	158544	158544	158544	158544	158544	155520	155520
E.RIVER COURSE TO K.G.S.C	M3	0																		
E.RIVER COURSE TO V.R SOI	M3	0																		

CONTROLED RESOURCES/ DAMS		20	21	22	23	24	25	26	27	28	29	30	31	TOTAL M3	TOTAL L/S	AVERAGE L/S	AVERAGE M3/DAY
ABAB DAM LEVEL	M	109.70	109.95	110.06	110.14	110.22	110.30	110.38	110.43	110.57	110.66	110.82	110.99	12576000			
ABAB DAM STORAGE (5001	M3	13581000	13437000	13361000	13303000	13246000	13189000	13132000	13061000	12994000	12934000	12823000	12702000	2555000	29572	951	82419
ABAB DAM INFLOW FROM W AZIE	M3	250	250	250	250	250	250	250	250	250	250	250	250	7750	90	3	250
ABAB DAM INFLOW FROM KAC-N	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABAB DAM TOTAL INFLOW	M3	250	250	250	250	250	250	250	250	250	250	250	250	7750	90	3	250
ABAB DAM EVAPORATION	M3	4400	4400	4400	4400	4400	4400	4400	5000	5000	4900	3800	3400	124554	1415	47	4017
ABAB DAM CAR TO KAC-N	M3	35830								139300	23120	44670	0	472140	5463	176	15199
ABAB DAM CAR TO NEG	M3	99970	62750	47800	43300	43610	43550	62750	51250	41270	81120	67810		1831520	21120	681	59122
ABAB DAM SEEPAGE	M3	4050	4050	4050	4050	4050	4050	4050	4000	4000	4000	4000	4000	125.05	1453	47	4041
ABAB DAM GATE	M3													0	0	0	0
ABAB DAM OVERFL .	M3													0	0	0	0
ABAB DAM TOTAL OUTFLOW	M3	141250	75250	58250	57250	57250	57100	71250	63250	195070	113250	119250	7400	2570020	29750	961	83001
DIFFERENCE STORAGE	M3	0	0	0	0	0	-50	0	0	-135020	-7000	7000	118850	-14270	-165	-5	-221
W.ABAB COURSE TRIBUTARY	M3	7463	7463	7463	7463	7463	7463	7463	7463	7463	7463	7463	7463	231503	2679	86	7463
W.ABAB COURSE TO KAC-N	M3	8640	8640	8640	8640	8640	8640	8640	8640	8640	8640	8640	8640	267840	3100	103	8640
W.ABAB COURSE TO W.R 501	M3													0	0	0	0
W.ABAB COURSE TO WASTE	M3	2873	2873	2873	2873	2873	2873	2873	2828	2828	2828	2828	2828	89168	1032	33	2876
ZIGLAB DAM LEVEL	M	121.84	121.67	121.26	121.50	121.36	121.20	121.00	120.84	120.72	120.59	120.47	120.34	3023280			
ZIGLAB DAM STORAGE (5001	M3	3372720	3337760	3314430	3302000	3272380	3239500	3198000	3166720	3139760	3112720	3087760	3060720	545593	6315	204	17630
ZIGLAB INFLOW FROM W.ZIGLAB	M3	22500	22500	22500	22500	22500	22500	22500	22500	22500	22500	22500	22500	701628	8121	262	22633
ZIGLAB INFLOW FROM KAC-N	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ZIGLAB DAM TOTAL INFLOW	M3	22500	22500	22500	22500	22500	22500	22500	22500	22500	22500	22500	22500	701628	8121	262	22633
ZIGLAB DAM EVAPORATION	M3	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	37200	431	14	1200
ZIGLAB DAM CAR TO KAC-N	M3													0	0	0	0
ZIGLAB DAM CAR TO NEG	M3	52251	40571	29771	16411	50571	53591	50571	42251	44221	42251	44331		1030633	11929	385	33243
ZIGLAB DAM SEEPAGE	M3	4009	4009	4009	4009	4009	4009	4009	4009	4009	4009	4009	4009	124279	1438	46	4009
ZIGLAB DAM GATE	M3													0	0	0	0
ZIGLAB DAM OVERFLOW	M3													0	0	0	0
ZIGLAB DAM TOTAL OUTFLOW	M3	57460	45780	34980	51620	55780	64100	55780	47460	43520	47460	49540	5209	1102167	12755	415	35557
DIFFERENCE STORAGE	M3	0	0	0	0	0	0	0	0	20	0	0	54331	55051	637	21	1776
W.ZIGLAB COURSE TRIBUTARY	M3													0	0	0	0
W.ZIGLAB COURSE TO KAC-N	M3													0	0	0	0
W.ZIGLAB COURSE TO W.R 502	M3													0	0	0	0
W.ZIGLAB COURSE TO WASTE	M3	4009	4009	4009	4009	4009	4009	4009	4009	4009	4009	4009	4009	124279	1438	46	4009
TALAL DAM LEVEL	M	163.90	163.83	163.75	163.67	163.59	163.51	163.44	163.38	163.31	163.24	163.16	163.08	47079000			
TALAL DAM STORAGE (5001	M3	49990000	49843000	48675000	45507000	43339000	43171000	43024000	47898000	47751000	47604000	47436000	47268000	5514100	63867	2060	178083
TALAL.D INFLOW FROM Z.RIVER	M3	163840	162068	162010	163793	161537	167354	162230	171917	175621	159054	159640	152929	5695594	62977	1902	164374
TALAL DAM EVAPORATION	M3	27810	27198	22140	23923	21967	23720	23696	21923	23587	21430	19906	17995	634796	7370	238	20512
TALAL DAM SEEPAGE	M3	5470	5470	5470	5470	5470	5334	5334	5334	5334	5334	5334	5334	170598	1975	64	5501
TALAL DAM GATE	M3	277569	302400	302400	302400	302400	285300	259200	293760	293760	309210	302400	315600	9806300	113439	3661	316332
TALAL DAM OVERFLOW	M3													0	0	0	0
TALAL DAM TOTAL OUTFLOW	M3	310849	330068	330010	331793	329937	314354	290230	320917	322681	327051	327640	341929	10613694	122844	3963	342377
DIFFERENCE STORAGE	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Z.RIVER COURSE TRIBUTARY	M3	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	214272	2480	80	6912
Z.RIVER COURSE TO KAC-S	M3	71539	71539	103680	103680	103680	103680	59095	59098	98755	98755	103680	103683	1435171	16611	536	46296
Z.RIVER COURSE TO H.G.SOI	M3	41472	38880	37584	37584	37584	37584	38880	38880	38880	38880	38880	38880	1326672	15355	495	42796
Z.RIVER COURSE TO H.G.SOII	M3	155520	146880	138240	138240	138240	138240	153792	153792	152064	152064	152064	152064	4777032	55290	1781	154100
Z.RIVER COURSE TO H.G.S.C	M3													0	0	0	0
Z.RIVER COURSE TO W.R 508	M3													0	0	0	0
Z.RIVER COURSE TO WASTE	M3	21411	57411	35278	35278	35278	11012	19676	54236	16307	22787	28022	38222	652215	7549	244	21043

MONTH JUNE YEAR 1994 شهر حزيران ١٩٩٤

CONTROLED RESOURCES/ DAMS		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
ARAB DAM LEVEL	M	111.37	111.36	111.55	111.73	111.47	112.1	112.28	112.44	112.65	112.4	113	113.14	113.22	113.30	113.41	113.56	113.69	113.74	113.86
ARAB DAM STORAGE (BOD)	M3	12576000	12443000	12311000	12187000	12077000	11933000	11810000	11701000	11559000	11457000	11321000	11229000	11176000	11122000	11019000	10950000	10864000	10817000	10751000
ARAB DAM INFLOW FROM W.ARAB	M3	250	250	250	250	250	250	250	250	250	250	250	250	250	250	150	150	150	250	250
ARAB DAM INFLOW FROM KAC-N	M3	0	0	0	0	0	0	0	0	0	0	0	21700	21210	0	0	0	0	0	0
ARAB DAM TOTAL INFLOW	M3	250	250	250	250	250	250	250	250	250	250	250	21950	21450	250	150	150	150	250	250
ARAB DAM EVAPORATION	M3	4300	4300	3100	3870	3450	3430	3500	3450	3430	3510	3500	3150	3300	3400	3500	3430	3430	3700	3830
ARAB DAM CAI TO KAC-N	M3	13130	45430	47970	47593	47733	47740	34993	42300	42280	41810	13240	500	0	17950	0	11790	20	17410	20830
ARAB DAM CAI TO BEG	M3	36320	75620	69080	54943	83120	63160	67080	93550	51820	84350	73550	67350	63210	67950	71700	67010	33830	34210	43720
ARAB DAM SEEPAGE	M3	4300	4300	4130	3950	3950	3950	3950	3950	3950	3950	3950	3950	3950	3950	3950	3950	3900	3900	3900
ARAB DAM GATE	M3	0	0	0																
ARAB DAM OVERFLOW	M3	0	0	0																
ARAB DAM TOTAL OUTFLOW	M3	132250	132750	124250	119250	144250	123250	103250	142250	142250	134250	94250	74350	75450	93250	79150	86150	47150	53250	72250
DIFFERENCE STORAGE	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W.ARAB COURSE TRIBOTARY	M3	6368	6368	6268	6414	6418	6418	6418	6416	6418	6418	6418	6418	6418	6418	6418	6418	6418	6418	6418
W ARAB COURSE TO KAC-W	M3	6700	7020	7576	7164	6120	6364	6460	7344	6412	6330	7056	5220	6330	6300	7392	6912	7218	7164	5220
W ARAB COURSE TO W.R S.I	M3	540	1620	1314	1476	2120	1656	2160	1296	1728	1710	1584	3420	1110	2340	1548	1728	1422	1476	3420
W.ARAB COURSE TO WASTE	M3	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728
ZIGLAB DAM LEVEL	M	120.3	120.15	120.08	120.03	120	119.96	119.92	119.87	119.81	119.74	119.6	119.5	119.34	119.25	119.10	118.95	118.83	118.72	118.57
ZIGLAB DAM STORAGE (BOD)	M3	3052400	3022380	3000543	2974180	2950822	2931800	2973630	2963853	2951050	2936700	2908300	2827500	2762500	2630250	2605500	2714720	2750150	2727600	2586500
ZIGLAB DAM INFLOW FROM W.ZIGLAB	M3	22500	22500	22500	22500	22500	22500	22500	22500	22500	22500	22500	22500	22500	22500	22500	22500	22500	22500	22500
ZIGLAB DAM INFLOW FROM KAC-N	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ZIGLAB DAM TOTAL INFLOW	M3	22500	22500	22500	22500	22500	22500	22500	22500	22500	22500	22500	22500	22500	22500	22500	22500	22500	22500	22500
ZIGLAB DAM EVAPORATION	M3	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200
ZIGLAB DAM CAI TO KAC-N	M3																			
ZIGLAB DAM CAI TO BEG	M3	47767	35282	31117	22801	36847	26847	28397	31447	32997	47347	39147	43241	45291	49397	49427	42217	41197	59817	67847
ZIGLAB DAM SEEPAGE	M3	2653	2653	2653	2653	2653	2653	2653	2653	2653	2653	2653	2653	2653	2653	2653	2653	2653	2653	2653
ZIGLAB DAM GATE	M3																			
ZIGLAB DAM OVERFLOW	M3																			
ZIGLAB DAM TOTAL OUTFLOW	M3	51620	39143	34963	26653	30700	30700	32250	35303	36850	53300	43000	47100	49150	53250	53280	47070	45050	63500	71700
DIFFERENCE STORAGE	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W ZIGLAB COURSE TRIBOTARY	M3																			
W ZIGLAB COURSE TO KAC-W	M3																			
W.ZIGLAB COURSE TO W.R SOI	M3																			
W.ZIGLAB COURSE TO WASTE	M3	2653	2653	2653	2653	2653	2653	2653	2653	2653	2653	2653	2653	2653	2653	2653	2653	2653	2653	2653
TALAL DAM LEVEL	M	162.99	162.9	162.81	162.72	162.63	162.54	162.45	162.38	162.3	162.22	162.14	162.04	161.97	161.87	161.81	161.84	161.89	161.91	161.91
TALAL DAM STORAGE (BOD)	M3	47079000	46873000	46670000	46512000	46323000	46136000	45956000	45798000	45630000	45462000	45294000	45126000	44913000	44753000	44639000	44695000	44731000	44367000	44329000
TALAL.D INFLOW FROM Z.RIVER	M3	152310	142579	157500	157367	150852	162779	152704	155114	157305	157265	165728	162971	175871	172541	173522	167803	165260	145640	141416
TALAL DAM EVAPORATION	M3	16196	12565	21436	21422	19597	21324	23043	19459	17650	17610	15813	21936	27976	22666	14367	21388	17445	17465	19201
TALAL DAM SEEPAGE	M3	5334	5334	5334	5255	5255	5255	5255	5255	5255	5255	5255	5255	5255	5215	5215	5215	5215	5215	5215
TALAL DAM GATE	M3	319680	319680	319680	319680	315000	304300	302430	302430	302400	302400	312660	319680	332640	358660	46540	41200	66600	162000	345000
TALAL DAM OVERFLOW	M3	0	0	0	0	0														
TALAL DAM TOTAL OUTFLOW	M3	342210	337579	345500	345367	339852	330779	330704	327114	325305	325265	333726	345971	365871	386541	116522	72803	89360	184640	369416
DIFFERENCE STORAGE	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Z.RIVER COURSE TRIBOTARY	M3	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912
Z.RIVER COURSE TO KAC-S	M3	103680	103680	103680	104518	114627	103680	103680	103680	103680	103640	103680	103640	103640	103640	94003	111243	94755	75859	71539
Z.RIVER COURSE TO N.G.ICI	M3	34480	34480	44496	44496	44496	43200	40176	40176	40176	40176	40176	47520	47520	47520	0	0	0	0	60480
Z.RIVER COURSE TO N.G.ICII	M3	152064	152064	154656	154656	154656	146880	104832	104832	104832	104832	104832	155520	155520	185760	0	0	0	0	183097
Z.RIVER COURSE TO N.G.S.C	M3	0																		
Z.RIVER COURSE TO W.R SOI	M3	0																		
Z.RIVER COURSE TO WASTE	M3	37302	37302	39954	24177	9364	22607	65879	65879	65879	65873	76139	25127	34087	-56196	-12216	-43424	2668	94268	37011

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CONTROLLED RESOURCES/ DAMS		20	21	22	23	24	25	26	27	28	29	30	31	TOTAL M3	TOTAL L/S	AVERAGE L/S	AVERAGE M3/DAY
		MONTH	JUNE	YEAR	1994 DATA												
ZIGLAB DAM LEVEL	M	113.96	114.05	114.16	114.26	114.37	114.47	114.57	114.65	114.73	114.82	114.90		10031000			
ZIGLAB DAM STORAGE (BOD)	M3	10046000	10362000	10555000	10470000	10418000	10353000	10289000	10230000	10185000	10127000	10076000	10031000	2545000	29456	952	84933
ZIGLAB DAM INFLOW FROM W.ZIGLAB	M3	250	250	250	250	250	250	250	250	250	250	250	0	7500	83	3	250
ZIGLAB DAM INFLOW FROM KIC-N	M3	0	0	0	0	0	0	0	0	0	0	23030	0	65910	763	25	2198
ZIGLAB DAM TOTAL INFLOW	M3	250	250	250	250	250	250	250	250	250	250	23030	0	73410	847	28	2448
ZIGLAB DAM EVAPORATION	M3	3850	3700	3800	3700	3700	3700	4150	4300	4200	4300	4300		110560	1279	43	3685
ZIGLAB DAM CIR TO KIC-N	M3	12700	12700	12950	12650	12820	15930	16940	1310	0	0	0		629430	7285	243	20980
ZIGLAB DAM CIR TO NZC	M3	45000	44350	44650	51960	44130	39720	34260	35340	50150	43050	60010		1760200	20373	679	58673
ZIGLAB DAM SEEPAGE	M3	3930	3930	3900	3930	3930	3900	3900	3900	3900	3930	3850		118000	1366	45	3933
ZIGLAB DAM GATE	M3													0	0	0	0
ZIGLAB DAM OVERFLOW	M3													0	0	0	0
ZIGLAB DAM TOTAL OUTFLOW	M3	66250	65550	65550	72350	65250	64350	59250	45250	58250	51250	63340	0	2613143	30353	1010	87171
DIFFERENCE STORAGE	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W.ZIGLAB COURSE TRIBUTARY	M3	6458	6458	6458	6458	6458	6458	6458	6458	6458	6458	6516		153040	1771	59	5103
W.ZIGLAB COURSE TO KIC-N	M3	7200	6300	6312	6624	7324	7056	5220	6524	5760	6912	6624		202042	2338	78	6735
W.ZIGLAB COURSE TO W.R SOR	M3	1440	2352	1728	2016	1472	1584	1420	2016	2880	1728	2016		57158	662	22	1905
W.ZIGLAB COURSE TO WASTE	M3	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	0	51840	600	20	1728
ZIGLAB DAM LEVEL	M	118.28	118.05	117.95	117.92	117.52	117.42	117.33	117.20	117.05	116.87	116.63		2292515			
ZIGLAB DAM STORAGE (BOD)	M3	2637430	2590430	2570430	2525430	2480430	2455430	2410430	2365430	2354275	2345430	2325930	2292515	757785	8794	293	25260
ZIGLAB DAM INFLOW FROM W ZIGLAB	M3	22500	22500	22500	22500	22500	22500	22500	22500	22500	22500	22500	0	675000	7813	260	22500
ZIGLAB DAM INFLOW FROM KIC-N	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ZIGLAB DAM TOTAL INFLOW	M3	22500	22500	22500	22500	22500	22500	22500	22500	22500	22500	22500	0	675000	7813	260	22500
ZIGLAB DAM EVAPORATION	M3	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	0	36000	417	14	1200
ZIGLAB DAM CIR TO KIC-N	M3													0	0	0	0
ZIGLAB DAM CIR TO NZC	M3	65797	36070	64503	53633	37133	39331	41953	43334	54724	54724	50414		1372215	15361	512	44243
ZIGLAB DAM SEEPAGE	M3	2653	2653	1762	1762	1762	1762	1762	1762	1762	1762	1762		71571	828	28	2386
ZIGLAB DAM GATE	M3													0	0	0	0
ZIGLAB DAM OVERFLOW	M3													0	0	0	0
ZIGLAB DAM TOTAL OUTFLOW	M3	69650	43535	67465	616	42095	42093	47915	51415	57650	57650	53726	0	1634765	18906	554	47678
DIFFERENCE STORAGE	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W.ZIGLAB COURSE TRIBUTARY	M3													0	0	0	0
W.ZIGLAB COURSE TO KIC-N	M3													0	0	0	0
W.ZIGLAB COURSE TO W.R SOR	M3													0	0	0	0
W.ZIGLAB COURSE TO WASTE	M3	1653	1653	1762	1762	1762	1762	1762	1762	1762	1762	1762	0	71571	828	29	2366
TALAL DAM LEVEL	M	161.79	161.66	161.53	161.43	161.34	161.24	161.14	161.04	160.94	160.84	160.74		42416000			
TALAL DAM STORAGE (BOD)	M3	44601000	44354000	44167000	43975000	43765000	43556000	43366000	43176000	42986000	42796000	42606000	42416000	4563000	53970	1799	155433
TALAL DAM INFLOW FROM Z.RIVER	M3	247625	151410	144336	165476	121402	130790	127647	119057	122374	123322	123959	0	4196363	52041	1735	143879
TALAL DAM EVAPORATION	M3	27614	25395	24171	24353	18457	23975	27322	18722	22062	22017	23654		635096	7351	245	21170
TALAL DAM SEEPAGE	M3	5215	5215	5215	5215	5215	5215	5215	5215	5185	5185	5185		157117	1818	61	5237
TALAL DAM GATE	M3	361800	367200	324450	267300	294300	291600	283120	285120	285120	285120	285120		8367150	96842	3228	278905
TALAL DAM OVERFLOW	M3													0	0	0	0
TALAL DAM TOTAL OUTFLOW	M3	383629	398410	353836	297470	318493	320790	317647	309057	312374	312322	313959	0	9159363	106011	3534	305312
DIFFERENCE STORAGE	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Z.RIVER COURSE TRIBUTARY	M3	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912		207360	2400	80	6912
Z.RIVER COURSE TO KIC-N	M3	92448	108000	99360	98755	95360	101347	89337	89337	89337	139104	94003		2595311	34668	1156	94844
Z.RIVER COURSE TO N.G.ZCI	M3	62643	56160	56160	47520	46656	47520	47520	47520	46656	44902	44434		1210116	14006	467	40337
Z.RIVER COURSE TO N.G.B.C	M3	283741	190080	155520	325584	133920	125280	165443	175280	133920	140400	140659		3871164	44246	1475	127429
Z RIVER COURSE TO W.R SOR	M3													0	0	0	0
Z RIVER COURSE TO WASTE	M3	-62905	25087	25537	7572	26431	29540	13943	35110	27304	-31189	18361	0	703336	8140	271	23445

شهر تموز - 1994

MONTH JULY YEAR 1994 DAYS 31

CONTROLED RESOURCES/ DAMS		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
ARAB DAM LEVEL	M	114.97	115.01	115.1	115.21	115.31	115.43	115.63	115.76	115.9	115.98	116.05	116.14	116.27	116.39	116.50	116.60	116.70	116.80	116.92
ARAB DAM STORAGE (800)	M3	10031000	9986000	9943000	9878000	9795000	9700000	9612000	9530000	9412000	9392000	9342000	9292000	9211000	9137000	9063000	9007000	8946000	8844000	8811000
ARAB DAM INFLOW FROM W.ARAB	M3	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250
ARAB DAM INFLOW FROM EAC-B	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ARAB DAM TOTAL INFLOW	M3	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250
ARAB DAM EVAPORATION	M3	4350	4400	4500	4400	4450	4400	4450	4400	4450	4500	3950	3800	3800	3650	3700	3250	3300	3350	3350
ARAB DAM CAR TO EAC-B	M3	0	0	17950	30110	37320	25820	25350	25630	2270	0	0	0	0	0	0	0	17460	5620	16700
ARAB DAM CAR TO NEG	M3	37050	30000	43950	44390	49630	53180	47000	54370	39730	41900	47450	73500	66630	60750	54700	54200	42690	60430	49430
ARAB DAM SEEPAGE	M3	3850	3850	3850	3850	3850	3850	3850	3850	3850	3850	3850	3850	3850	3850	3850	3800	3800	3800	3800
ARAB DAM GATE	M3	0																		
ARAB DAM OVERFLOW	M3	0																		
ARAB DAM TOTAL OUTFLOW	M3	45250	38250	70250	83250	95250	83250	82250	83250	50250	50250	53250	81250	74250	68250	62250	61250	63250	73250	73250
DIFFERENCE STORAGE	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W.ARAB COURSE TRIBUTARY	M3	6518	6518	6518	6518	6518	6518	6518	6518	6518	6518	6518	6518	6518	6518	6518	6568	6568	6568	6568
W.ARAB COURSE TO EAC-B	M3	7218	7056	5220	7056	5868	6835	6234	7218	6368	5004	6312	5826	7992	6624	6930	6843	5220	6312	5463
W.ARAB COURSE TO W.R SOI	M3	1423	1586	3420	1586	2772	1944	2016	1422	1872	3636	1728	2568	648	2016	1710	1800	3420	1728	2772
W.ARAB COURSE TO WASTE	M3	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728
ZIGLAB DAM LEVEL	M	116.53	116.34	116.25	116.1	115.94	115.8	115.65	115.5	115.33	115.17	115	114.83	114.97	114.88	114.70	114.62	114.54	114.43	114.34
ZIGLAB DAM STORAGE (800)	M3	2251815	2263[illegible]	2237875	2202550	2173410	2153700	2127225	2100750	2070745	2012505	2012500	1993035	2133205	1977200	1953550	1945430	1931310	1920720	1895610
ZIG.D INFLOW FROM W.ZIGLAB	M3	22500	22500	22500	22500	22500	22500	22525	22500	22500	22500	22500	22500	22500	22000	17280	17280	17280	17280	17280
ZIG D INFLOW FROM EAC-B	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ZIGLAB DAM TOTAL INFLOW	M3	22500	22500	22500	22500	22500	22500	22500	22500	22500	22500	22500	22500	22500	22000	17280	17280	17280	17280	17280
ZIGLAB DAM EVAPORATION	M3	1200	1200	1200	1200	1200	1200	1150	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200
ZIGLAB DAM CAR TO EAC-B	M3																			
ZIGLAB DAM CAR TO NEG	M3	43863	45510	45571	50346	41956	46721	47361	50921	45345	50911	43321	6715	50331	38355	29806	29805	25375	43296	36356
ZIGLAB DAM SEEPAGE	M3	1762	1705	1054	1054	1054	1054	394	394	394	394	394	394	394	394	394	394	394	394	394
ZIGLAB DAM GATE	M3																			
ZIGLAB DAM OVERFLOW	M3																			
ZIGLAB DAM TOTAL OUTFLOW	M3	51825	47915	51325	52043	47210	43375	48975	52505	50740	52505	45915	6343	52505	39650	31400	31400	27870	41950	38460
DIFFERENCE STORAGE	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W.ZIGLAB COUSE TRIBUTARY	M3																			
W.ZIGLAB COUSE TO EAC-B	M3																			
W.ZIGLAB COUSE TO W.R SOI	M3																			
W.ZIGLAB COUSE TO WASTE	M3	1762	1205	1054	1054	1054	1054	351	394	394	394	394	394	394	394	394	394	394	394	394
TALAL DAM LEVEL	M	160.64	160.54	160.44	160.34	160.24	160.15	160.05	159.94	159.83	159.72	159.61	159.47	159.28	159.15	159.24	159.16	159.07	154.98	158.83
TALAL DAM STORAGE (800)	M3	42416000	42326000	42036000	41816000	41655000	41435000	41395000	41095000	43902500	43710000	43517500	43272500	39540000	39787500	39830000	39730000	39572500	39415000	39257500
TALAL.D INFLOW FROM Z.RIVER	M3	120532	125459	125409	123735	113832	115404	111832	117617	119218	117459	107732	107549	128012	126192	111461	127904	126239	124574	126239
TALAL DAM EVAPORATION	M3	20227	25164	25104	23430	18366	21658	21606	19891	21192	19733	19656	22943	21206	22786	19535	21143	19474	17803	19374
TALAL DAM SEEPAGE	M3	5185	5185	5185	5185	5106	5106	5106	5106	5106	5106	5106	5106	5106	5106	5106	5065	5065	5065	5065
TALAL DAM GATE	M3	285120	285120	285120	285120	261363	278610	285120	285120	285120	285120	377960	412000	259200	10800	216800	259200	259200	259200	294300
TALAL DAM OVERFLOW	M3																			
TALAL DAM TOTAL OUTFLOW	M3	310532	315469	315409	313735	284832	305404	311832	310117	311718	309959	352732	440043	215512	38692	251461	285404	283739	282074	314739
DIFFERENCE STORAGE	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Z.RIVER COURSE TRIBUTARY	M3	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912
Z.RIVER COURSE TO EAC-B	M3	94003	94003	89333	52013	52013	52013	113475	67306	75859	71539	71158	193080	133552	103680	25920	133920	51840	55987	51840
Z.RIVER COURSE TO N.G.ECI	M3	44496	44496	33696	41731	41731	41731	43459	43459	44496	43902	53309	31560	38840	8726	0	44496	44496	44496	44496
Z.RIVER COURSE TO N.G.ECII	M3	140659	147744	133574	179452	179452	179452	60480	60480	134093	151200	125240	138240	120960	32400	0	172800	150336	150336	150336
Z.RIVER COURSE TO N.G.E.C	M3																			
Z RIVER COURSE TO W.R SOI	M3																			
Z.RIVER COURSE TO WASTE	M3	18059	10974	40609	24031	142	17462	79324	125893	42690	25497	90231	61134	-12174	-121984	212834	-80039	21505	20358	53605

MONTH July YEAR 1994 DAYS 31

CONTROLED RESOURCES/ DAMS		20	21	22	23	24	25	26	27	28	29	30	31	TOTAL M3	TOTAL L/S	AVERAGE L/S	AVERAGE M3/DAY	Total 1- MCM
ARAR DAM LEVEL	M	117.04	117.34	117.32	117.48	117.51	117.68	117.78	117.97	118.16	118.22	118.35	118.44	7836000				
ARAR DAM STORAGE (BOD)	M3	8738000	8653000	8568000	8471000	8411000	8351000	8291000	8178000	8101000	1030000	7953000	7900000	2195000	25405	820	70806	12386.7
ARAR DAM INFLOW FROM W.ARAR	M3	250	250	250	250	250	250	250	250	250	250	250	250	7750	90	3	250	0.324
ARAR DAM INFLOW FROM KAC-N	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ARAR DAM TOTAL INFLOW	M3	250	250	250	250	250	250	250	250	250	250	250	250	7750	90	3	250	0.324
ARAR DAM EVAPORATION	M3	3400	3450	3500	3500	3650	3800	3800	3500	3500	3000	3790	3500	118840	1375	44	3834	5.46048
ARAR DAM CAR TO-KAC-N	M3	21320	21710	21800	4740	0	0	24660	1636	16140	15520	1110	0	330356	3824	123	10657	14.4288
ARAR DAM CAR TO REG	M3	56730	56250	64359	48210	52800	52650	30990	68314	47770	54830	48550	56950	1635004	18924	610	52742	63.974
ARAR DAM SEEPAGE	M3	3800	3800	3800	3800	3800	3800	3800	3800	3800	3800	3800	3800	118550	1372	44	3824	4.9856
ARAR DAM GATE	M3													0	0	0	0	0
ARAR DAM OVERFLOW	M3													0	0	0	0	0
ARAR DAM TOTAL OUTFLOW	M3	85250	85250	97250	60250	60250	60250	113250	77250	7,250	77250	53250	64250	2202750	25495	822	71056	88.7976
DIFFERENCE STORAGE	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W.ARAR COURSE TRIBUTARY	M3	6568	6568	6568	6568	6568	6568	6568	6568	6568	6568	6568	6568	203858	2348	76	6544	8.44733
W.ARAR COURSE TO KAC-N	M3	6912	6768	7218	6768	6084	6912	6336	6912	6768	7218	6768	5220	203806	2359	76	6574	8.5616
W.ARAR COURSE TO W.R SO1	M3	1728	1872	1422	1872	2636	1728	2304	1728	1872	1422	1872	3420	64034	741	24	2066	2.62984
W.ARAR COURSE TO WASTE	M3	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	53568	620	20	1728	2.23949
ZIGLAB DAM LEVEL	M	114.22	114.09	113.96	113.83	113.82	113.70	113.61	113.50	113.40	113.29	113.19	113.10	1863500				0.14973
ZIGLAB DAM STORAGE (BOD)	M3	1874830	1851815	1829100	1806950	1804950	1784250	1768725	1745750	1732500	1713525	1696275	1680750	629115	7281	235	20294	2732.42
ZIG.D INFLOW FROM W.ZIGLAB	M3	17280	17280	17280	17280	17280	17280	17280	17280	17280	17280	17280	17280	608260	7040	227	19621	24.6654
ZIG.D INFLOW FROM KAC-N	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ZIGLAB DAM TOTAL INFLOW	M3	17280	17280	17280	17280	17280	17280	17280	17280	17280	17280	17280	17280	608260	7040	227	19621	24.6654
ZIGLAB DAM EVAPORATION	M3	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	37200	431	14	1200	1.5552
ZIGLAB DAM CAR TO KAC-N	M3	0												0	0	0	0	0
ZIGLAB DAM CAR TO REG	M3	36631	36431	39636	15666	36366	31211	34661	32936	34661	32936	31211	32936	1183142	13694	442	38166	56.1804
ZIGLAB DAM SEEPAGE	M3	394	394	394	394	394	394	394	394	394	394	394	394	17033	197	6	549	0.92695
ZIGLAB DAM GATE	M3													0	0	0	0	0
ZIGLAB DAM OVERFLOW	M3													0	0	0	0	0
ZIGLAB DAM TOTAL OUTFLOW	M3	40225	40025	43430	17260	37960	33605	36255	34530	36255	34530	32805	34530	1237375	14321	462	39915	58.6626
DIFFERENCE STORAGE	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W.ZIGLAB COURSE TRIBUTARY	M3													0	0	0	0	0
W.ZIGLAB COURSE TO KAC-N	M3													0	0	0	0	0
W.ZIGLAB COURSE TO W.R SO1	M3													0	0	0	0	0
W.ZIGLAB COURSE TO WASTE	M3	394	394	394	394	394	394	394	394	394	394	394	394	17033	197	6	549	0.53659
TALAL DAM LEVEL	M	158.76	158.66	158.56	158.47	158.38	158.27	158.17	158.07	157.97	157.85	157.73	157.6	36925000				0.20325
TALAL DAM STORAGE (BOD)	M3	39065000	38855000	38680000	38522500	38365000	38207500	37997500	37832500	37653500	37467500	37283500	37095500	5491000	63553	2050	177129	53226.3
TALAL.D INFLOW FROM Z RIVER	M3	116773	115701	129104	127448	128576	117091	129304	117236	117059	122875	124360	113461	3235101	43238	1355	120510	153.054
TALAL DAM EVAPORATION	M3	19308	19236	22372	20716	22264	20586	22099	22029	17254	14750	20235	17056	642224	7437	240	20726	27.4923
TALAL DAM SEEPAGE	M3	5065	5065	5032	5032	5032	5005	5065	5005	5065	5005	5005	5005	151427	1822	59	5018	6.64468
TALAL DAM GATE	M3	302400	268400	259200	259200	259200	301500	277200	259200	280800	285120	285120	261900	8426860	97533	3146	271834	350.587
TALAL DAM OVERFLOW	M3													0	0	0	0	0
TALAL DAM TOTAL OUTFLOW	M3	326773	290701	286604	284648	286476	327091	304304	286236	303059	306875	310360	283561	9220861	106792	3445	297639	385.12
DIFFERENCE STORAGE	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Z RIVER COURSE TRIBUTARY	M3	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	214272	2480	80	6912	8.95795
Z.RIVER COURSE TO KAC-S	M3	123552	98355	71539	64861	63072	112320	103640	80090	71539	150250	108000	67305	2648901	30659	989	85448	110.277
Z.RIVER COURSE TO M.G ZCI	M3	51840	38880	51840	45965	45965	45965	51840	49248	35744	39744	46965	13200	1292852	14964	483	41705	53.701
Z.RIVER COURSE TO M G.ZCII	M3	133920	129600	116640	139104	142560	112320	116640	112560	121200	95040	125280	133920	3916051	45325	1462	126324	154.097
Z.RIVER COURSE TO M.G.S.C	M3													0	0	0	0	0
Z.RIVER COURSE TO W.R SO8	M3													0	0	0	0	0
Z.RIVER COURSE TO WASTE	M3	5065	11142	31125	17274	19547	42812	16957	35219	60234	12003	16792	29351	940746	10888	351	30347	53.120

CONTROLED RESOURCES/ DAMS		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
ARAB DAM LEVEL	M	118.55	118.64	118.73	118.87	119.02	119.13	119.24	119.3	119.38	119.48	119.6	119.69	119.88	119.94	120.02	120.17	120.22	120.36	120.55
ARAB DAM STORAGE (ROD)	M3	7836000	7783000	7732000	7649000	7563000	7493000	7436000	7431000	7355000	7294000	7239000	7179000	7071000	7037000	6992000	6936000	6880000	6802000	6697000
ARAB DAM INFLOW FROM W.ARAB	M3	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250
ARAB DAM INFLOW FROM KAC-N	M3	0	0	0	0	0	0	16910	0	0	0	0	0	0	0	0	0	0	0	0
ARAB DAM TOTAL INFLOW	M3	250	250	250	250	250	250	17160	250	250	250	250	250	250	250	250	250	250	250	250
ARAB DAM EVAPORATION	M3	3350	2750	2950	3090	3250	2950	3250	2850	2850	2850	3000	3200	3700	3950	3200	3050	2700	2650	2600
ARAB DAM CAR TO KAC-N	M3	0	0	16070	17700	15610	430	0	0	0			0					13950	24630	6110
ARAB DAM CAR TO NEG	M3	45100	44700	62430	61750	41590	56070	45110	39530	53600	61800	44450	101250	25750	37500	43250	43400	57850	74230	54790
ARAB DAM SEEPAGE	M3	3800	3800	3800	3800	3800	3333	3800	3800	3800	3800	3800	3800	3800	3800	3800	3800	3750	3750	3750
ARAB DAM GATE	M3																			
ARAB DAM OVERFLOW	M3																			
ARAB DAM TOTAL OUTFLOW	M3	53250	51250	82250	66250	64250	63250	52160	46250	53250	68250	51250	108250	34250	45150	56250	56250	78250	105250	67250
DIFFERENCE STORAGE	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W.ARAB COURSE TRIBUTARY	M3	6568	6568	6568	6568	6568	6568	6568	6568	6568	6568	6568	6568	6568	6568	6568	6568	6618	6618	6618
W ARAB COURSE TO KAC-N	M3	6912	5976	6372	6811	7218	6876	5220	6912	6336	6912	6624	7218	6768	5220	6912	6300	6912	6624	7218
W.ARAB COURSE TO W.R SO1	M3	1728	2664	2268	1827	1422	1764	3420	1728	2304	1728	2016	1422	1872	3420	1728	2340	1728	2016	1422
W.ARAB COURSE TO WASTE	M3	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728
ZIGLAB DAM LEVEL	M	113	112.85	112.8	112.7	112.58	112.47	112.4	112.25	112.05	111.66	111.77	111.94	112.15	111.94	111.76	111.54	111.36	111.16	111.02
ZIGLAB DAM STORAGE (ROD)	M3	1663500	1644525	1629000	1611750	1591150	1572075	1550900	1534.25	1499625	1458250	1456730	1482060	1499625	1482060	1455240	1423460	1395540	1368820	1342000
ZIG.D INFLOW FROM W.ZIGLAB	M3	17280	17280	17280	17280	17280	17280	17280	17280	17280	17280	26924	19159	17280	17280	17280	17280	17280	17280	17280
ZIG.D INFLOW FROM KAC-N	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ZIGLAB DAM TOTAL INFLOW	M3	17280	17280	17280	17280	17280	17280	17280	17280	17280	17280	26924	19159	17280	17280	17280	17280	17280	17280	17280
ZIGLAB DAM EVAPORATION	M3	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200
ZIGLAB DAM CAR TO KAC-N	M3																			
ZIGLAB DAM CAR TO NEG	M3	34661	31211	32930	36186	34681	27763	41562	50186	46681	27606	0	0	33251	42506	48466	42506	42506	42506	35036
ZIGLAB DAM SEEPAGE	M3	394	394	394	394	394	394	394	394	394	394	394	394	394	394	394	394	394	394	394
ZIGLAB DAM GATE	M3																			
ZIGLAB DAM OVERFLOW	M3																			
ZIGLAB DAM TOTAL OUTFLOW	M3	36255	32805	34530	37980	36255	29355	43155	51780	48255	29000	1594	1594	34845	44100	50860	44100	44100	44100	39530
DIFFERENCE STORAGE	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W.ZIGLAB COURSE TRIBUTARY	M3																			
W.ZIGLAB COURSE TO KAC-N	M3																			
W ZIGLAB COURSE TO W.R SO7	M3																			
W.ZIGLAB COURSE TO WASTE	M3	394	394	394	394	394	394	394	394	394	394	394	394	394	394	394	394	394	394	394
TALAL DAM LEVEL	M	157.5	157.39	157.29	157.12	157.08	157	156.89	156.78	156.67	156.56	156.45	156.34	156.23	156.12	156.03	155.91	155.83	155.72	155.61
TALAL DAM STORAGE (ROD)	M3	36925000	36754500	36568500	36336000	36274000	36150000	35970500	35809000	35630500	35468000	35297500	35127000	34956500	34786000	34646500	34507000	34328500	34166000	33995000
TALAL.D INFLOW FROM Z.RIVER	M3	113790	118819	117249	134117	135972	136228	137695	137154	140603	142044	140480	138925	136775	146362	145232	137544	140040	139978	138452
TALAL DAM EVAPORATION	M3	20085	18174	15335	18312	16784	16720	18162	19516	21095	22536	20972	19122	19360	20787	20737	19209	20625	20563	19032
TALAL DAM SEEPAGE	M3	5005	5005	5005	5005	4888	4888	4888	4888	4888	4888	4888	4888	4795	4795	4795	4795	4795	4795	4795
TALAL DAM GATE	M3	259200	281340	329400	172800	238320	285120	285120	285120	285120	285120	285120	285120	285120	260280	259200	284340	285120	285620	284630
TALAL DAM OVERFLOW	M3																			
TALAL DAM TOTAL OUTFLOW	M3	284290	304819	349743	196117	259972	306728	304195	309554	311103	312544	310953	309125	309875	285862	284732	308044	310540	310978	308452
DIFFERENCE STORAGE	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Z RIVER COURSE TRIBUTARY	M3	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912
Z RIVER COURSE TO KAC-S	M3	47520	47434	77760	145830	155779	73440	80252	88430	86480	70416	103680	103680	69120	50976	51840	77760	103680	108000	118368
Z.RIVER COURSE TO M.G.ZCI	M3	43200	47520	38880	15050	0	44496	45792	35856	45792	44496	43200	51840	45792	44496	51840	51840	51840	43200	43200
Z RIVER COURSE TO M G ZCII	M3	133920	133920	144720	41558	0	155520	155520	123600	155520	145880	129600	116640	155520	142560	125280	125280	138240	133920	135648
Z RIVER COURSE TO M.G.S.C	M3																			
Z.RIVER COURSE TO W.R SO8	M3																			
Z.RIVER COURSE TO WASTE	M3	46477	64383	73952	-18771	94341	23454	15256	45054	35328	35128	20140	24760	26395	33955	41947	40867	3067	12207	-889

MONTH AUGUST YEAR 1994 DAYS 31

CONTROLED RESOURCES/ DAMS		20	21	22	23	24	25	26	27	28	29	30	31	TOTAL M3	TOTAL L/S	AVERAGE L/S	AVERAGE M3/DAY
ARAB DAM LEVEL	M	120.67	120.76	120.86	120.96	121.10	121.25	121.31	121.41	121.56	121.66	121.76	121.86	5924030			
ARAB DAM STORAGE (BCD)	M3	6320000	6381000	6415000	6450000	6395000	6308000	6243000	6183000	6135000	6092000	6038000	5985000	1312000	22139	714	61677
ARAB DAM INFLOW FROM W.ARAB	M3	250	250	250	250	250	250	250	250	250	250	250	250	7750	99	3	250
ARAB DAM INFLOW FROM RAC-W	M3	0	0	0	0	0	0	0	0	0	0	0	0	16910	196	6	545
ARAB DAM TOTAL INFLOW	M3	250	250	250	250	250	250	250	250	250	250	250	250	24660	285	9	795
ARAB DAM EVAPORATION	M3	2100	2750	2500	2550	3600	2550	2500	2500	2400	2450	2350	2400	87950	1018	33	2837
ARAB DAM CAR TO RAC-W	M3	0				21310	3090							117590	1361	44	3793
ARAB DAM CAR TO KBG	M3	43435	53750	49000	52850	55030	55800	48500	47500	37500	43050	47550	55200	1614970	18691	603	52067
ARAB DAM SEEPAGE	M3	3750	3750	3750	3750	3750	3750	3750	3750	3750	3750	3750	3750	117350	1359	44	3786
ARAB DAM GATE	M3													0	0	0	0
ARAB DAM OVERFLOW	M3													0	0	0	0
ARAB DAM TOTAL OUTFLOW	M3	49250	60250	54250	60250	67250	62250	54250	54250	42250	54250	53250	61250	1958860	22675	723	62479
DIFFERENCE STORAGE	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W.ARAB COURSE TRIBUTARY	M3	6618	6618	6618	6618	6618	6618	6618	6618	6618	6618	6618	6618	204358	2365	76	6592
W.ARAB COURSE TO RAC-W	M3	6768	5820	6912	6300	6912	6624	7218	6912	5904	6912	5976	6912	202569	2348	76	6544
W.ARAB COURSE TO W.R SGT	M3	1872	3420	1728	2340	1728	2016	1422	1728	3618	1728	2646	1728	64771	750	24	2096
W.ARAB COURSE TO WASTE	M3	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	52568	609	20	1728
ZIGLAB DAM LEVEL	M	110.65	110.76	110.90	110.46	110.31	110.15	110.02	109.61	109.62	109.50	109.32	109.17	1357370			
ZIGLAB DAM STORAGE (BCD)	M3	1315650	1304700	1330400	1263540	1239540	1215500	1197300	1155600	1124400	1104300	1079640	1070200	608150	7040	235	19613
ZIG D INFLOW FROM W.ZIGLAB	M3	17250	17250	17250	17250	17250	17250	17250	17250	17250	17250	17250	17250	537203	6219	207	17652
ZIG D INFLOW FROM RAC-W	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ZIGLAB DAM TOTAL INFLOW	M3	17250	17250	17250	17250	17250	17250	17250	17250	17250	17250	17250	17250	537203	6219	207	17652
ZIGLAB DAM EVAPORATION	M3	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	37200	431	14	1220
ZIGLAB DAM CAR TO RAC-W	M3													0	0	0	0
ZIGLAB DAM CAR TO KBG	M3	35500	38000	38500	38000	39500	38000	43000	43500	38500	40500	36500	38000	1105495	12795	413	35681
ZIGLAB DAM SEEPAGE	M3	394	394	394	394	394	394	394	394	0	0	0	0	13638	158	4	393
ZIGLAB DAM GATE	M3													0	0	0	0
ZIGLAB DAM OVERFLOW	M3													0	0	0	0
ZIGLAB DAM TOTAL OUTFLOW	M3	36100	39600	39400	39200	40200	39600	44600	44900	38700	40900	37600	38200	1153333	13349	431	37204
DIFFERENCE STORAGE	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W.ZIGLAB COURSE TRIBUTARY	M3													0	0	0	0
W.ZIGLAB COURSE TO RAC-W	M3													0	0	0	0
W.ZIGLAB COURSE TO W.R SGT	M3													0	0	0	0
W.ZIGLAB COURSE TO WASTE	M3	394	394	394	394	394	394	394	394	0	0	0	0	13638	158	4	393
TALAL DAM LEVEL	M	155.50	155.35	155.26	155.17	155.06	154.95	154.83	154.72	154.62	154.50	154.35	154.26	31701500			
TALAL DAM STORAGE (BCD)	M3	33825000	33654500	33543000	33313500	33142000	32970500	32785500	32610000	32446500	32275000	32104500	31963000	5223593	60457	1950	168535
TALAL D INFLOW FROM Z.RIVER	M3	138395	139623	139582	140947	139425	137575	137550	135245	135281	137765	131663	132342	4,45,64	49183	1587	137077
TALAL DAM EVAPORATION	M3	18920	20378	23112	23762	20154	21570	20365	20900	19542	18457	19813	18335	607625	7033	227	19601
TALAL DAM SEEPAGE	M3	4795	4825	4825	4825	4825	4825	4825	4825	4825	4825	4465	4465	143835	1665	55	4775
TALAL DAM GATE	M3	285120	285120	285120	285120	285120	301680	353760	255120	255120	285120	304880	311040	8712220	100894	3255	281201
TALAL DAM OVERFLOW	M3													0	0	0	0
TALAL DAM TOTAL OUTFLOW	M3	308655	318123	310062	317447	309923	323875	328450	309743	309683	308205	333363	333843	9472854	109640	3537	305577
DIFFERENCE STORAGE	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Z RIVER COURSE TRIBUTARY	M3	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	214272	2480	80	6912
Z.RIVER COURSE TO RAC-S	M3	99360	67306	103680	103680	103680	112320	133920	99360	103680	89208	125280	138240	2913129	33720	1088	93971
Z.RIVER COURSE TO M.G ECT	M3	47520	51840	47520	47520	47520	43200	43200	47520	47520	51840	47520	43200	1354250	15674	506	43685
Z.RIVER COURSE TO M.G.ZCTI	M3	138400	146880	133920	133920	133920	129600	125280	135216	133920	133920	138240	129600	4015686	46478	1499	129538
Z.RIVER COURSE TO M.G.S.C	M3													0	0	0	0
Z.RIVER COURSE TO W R SGT	M3													0	0	0	0
Z.RIVER COURSE TO WASTE	M3	11547	30631	11537	11537	11537	28097	2697	11537	11537	21559	9217	11377	796186	9215	297	25683

CONTROLED RESOURCES/ DAMS		20	21	22	23	24	25	26	27	28	29	30	31	TOTAL M3	TOTAL L/S	AVERAGE L/S	Total 1-Total 16 MCM	MCM
ARAB DAM LEVEL	M	123.59	123.66	123.75	123.92	124.02	124.16	124.22	124.32	124.42	124.52	124.64		4587000				
ARAB DAM STORAGE (EOD)	M3	5084000	5052000	5008000	4923000	4873000	4823000	4774000	4725000	4675000	4627000	4568000	4587000	1340000	15509	517	0.692	0.645
ARAB DAM INFLOW FROM W.ARAB	M3	250	250	250	250	250	250	250	250	250	250	250	0	7500	87	3	0.004	0.004
ARAB DAM INFLOW FROM KAC-N	M3	0	0	0	0	0	0	0	0	0	0	62300	0	104580	1210	40	0.042	0.062
ARAB DAM TOTAL INFLOW	M3	250	250	250	250	250	250	250	250	250	250	62550	0	112080	1297	43	0.046	0.066
ARAB DAM EVAPORATION	M3	1800	1750	1700	1750	2500	2400	2100	2200	2150	2200	2200		75130	870	29	0.043	0.033
ARAB DAM CAR TO KAC-N	M3													0	0	0	0.000	0.000
ARAB DAM CAR TO REG	M3	29800	39800	39900	44850	44100	43200	43500	44400	42450	53400	37700		1266550	14659	489	0.440	0.627
ARAB DAM SEEPAGE	M3	3650	3650	3650	3650	3650	3650	3650	3650	3650	3650	3650		110400	1278	43	0 056	0.055
ARAB DAM GATE	M3													0	0	0	0.000	0.000
ARAB DAM OVERFLOW	M3													0	0	0	0.000	0.000
ARAB DAM TOTAL OUTFLOW	M3	35250	45250	45250	50250	50250	49250	49250	50250	48250	59250	43550	0	1452030	16806	560	0.738	0.714
DIFFERENCE STORAGE	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.000	0.000
W ARAB COURSE TRIBUTARY	M3	6718	6718	6718	6718	6718	6718	6718	6718	6718	6718	6718		200840	2322	77	0 100	0.101
W.ARAB COURSE TO KAC-N	M3	5976	6912	6624	7218	6912	5004	6912	5976	6912	6624	8052		198706	2300	77	0.100	0.099
W.ARAB COURSE TO W.R SOI	M3	2664	1728	2016	1442	1728	3636	1728	2664	1728	2016	558		60492	700	23	0.030	0.031
W.ARAB COURSE TO WASTE	M3	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	0	51840	600	20	0.026	0.026
ZIGLAB DAM LEVEL		105.93	105.73	105.49	105.27	105.95	104.89	104 35	104 03	103 80	103.55	103.25		383120				
ZIGLAB DAM STORAGE (EOD)		673110	650600	630020	608160	577100	547700	518300	486949	464600	440350	411250	383120	674250	7804	260	0.264	0 410
ZIG.D INFLOW FROM W.ZIGLAB		17280	17280	17280	17280	17280	17280	17280	17280	17280	17280	17280	0	518400	6000	200	0.259	0.259
ZIG D INFLOW FROM KAC-N		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.000	0.000
ZIGLAB DAM TOTAL INFLOW		17280	17280	17280	17280	17280	17280	17280	17280	17280	17280	17280	0	518400	6000	200	0.259	0.259
ZIGLAB DAM EVAPORATION		1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200		36000	417	14	0.018	0.018
ZIGLAB DAM CAR TO KAC-N														0	0	0	0.000	0.000
ZIGLAB DAM CAR TO REG		38620	36660	37640	47140	45480	45480	47440	36420	40310	45280	44210		1156650	13387	446	0.505	0.652
ZIGLAB DAM SEEPAGE		0	0	0	0	0	0	0	0	0	0	0		0	0	0	0.000	0.000
ZIGLAB DAM GATE														0	0	0	0.000	0.000
ZIGLAB DAM OVERFLOW														0	0	0	0.000	0.000
ZIGLAB DAM TOTAL OUTFLOW		39820	37860	38840	48340	46680	46680	48640	39620	41510	46480	45410	0	1192650	13804	460	0.523	0.670
DIFFERENCE STORAGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.000	0.000
W.ZIGLAB COURSE TRIBUTARY														0	0	0	0.000	0.000
W ZIGLAB COURSE TO KAC-N														0	0	0	0.000	0 000
W.ZIGLAB COURSE TO W.R SOI														0	0	0	0.000	0.000
W.ZIGLAB COURSE TO WASTE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.000	0.000
TALAL DAM LEVEL		151 61	151.46	151.31	151.16	151 01	150.89	150.78	150.63	150.80	150.28	150.13		25900875				
TALAL DAM STORAGE (EOD)		28112175	27899550	27686935	27474300	27261675	27091525	26935650	26723025	26467875	26226930	26014275	25900875	5800625	67137	2238	2.767	3.033
TALAL D INFLOW FROM Z.RIVER		116922	116856	116790	116650	118953	133076	117759	121867	116777	111776	106541		3793060	43901	1463	1.997	1.796
TALAL DAM EVAPORATION		14348	14282	14216	14150	12808	12756	15253	15182	10067	12516	12456		464712	5379	179	0.255	0.210
TALAL DAM SEEPAGE		4159	4159	4159	4085	4085	4085	4085	4085	4085	4085	4085		126363	1463	49	0.065	0.062
TALAL DAM GATE		311040	311040	311040	311040	272160	272160	311040	357750	345600	307800	203400		9002610	104197	3473	4.445	4.558
TALAL DAM OVERFLOW														0	0	0	0.000	0.000
TALAL DAM TOTAL OUTFLOW		329547	329481	329415	329275	289053	289001	330384	377017	359752	324401	219941	0	9593685	111038	3701	4.764	4.830
DIFFERENCE STORAGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.000	0.000
Z.RIVER COURSE TRIBUTARY		6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912		207360	2400	80	0.104	0.104
Z RIVER COURSE TO KAC-S		133920	125280	116640	120960	116640	103680	120960	120960	133920	138240	120960		3499200	40500	1350	1.668	1.832
Z RIVER COURSE TO M.G.ZCI		43200	45360	48384	51840	30240	30240	51840	30240	51840	43200	30240		1306366	15120	504	0.661	0.645
Z.RIVER COURSE TO M.G.ZCII		138240	142560	151200	138240	103680	103680	138240	56160	159840	120960	56160		3913920	45300	1510	2.035	1.879
Z RIVER COURSE TO M.G.S.C														0	0	0	0.000	0.000
Z.RIVER COURSE TO W.R SOB														0	0	0	0.000	0.000
Z.RIVER COURSE TO WASTE		6751	8481	5387	10997	32597	45557	10997	161387	10997	16397	7037	0	616847	7139	238	0.250	0.367

Mukin Surface Water 1994 1995

CONTROLED RESOURCES/ DAMS		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
ARAB DAM LEVEL	M	121.57	122.09	121.18	122.19	121.26	122.38	122.46	122.57	122.66	122.75	122.84	122.92	123.02	123.10	123.20	123.30	123.40	123.50	123.56
ARAB DAM STORAGE (BOD)	M3	5927000	5863000	5816000	5810000	5773000	5710000	5669000	5611000	5564000	5518000	5471000	5430000	5376000	5337000	5286000	5235000	5184000	5134000	5103000
ARAB DAM INFLOW FROM W.ARAB	M3	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250
ARAB DAM INFLOW FROM KAC-N	M3	0	0	39010	3270	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ARAB DAM TOTAL INFLOW	M3	250	250	39260	3520	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250
ARAB DAM EVAPORATION	M3	2350	2700	2650	2600	2550	2800	2550	2550	2550	2150	2600	3700	4250	2600	2500	3000	2750	2150	1950
ARAB DAM CAR TO KAC-N	M3																			
ARAB DAM CAR TO NEG	M3	58150	40600	38910	34250	56600	34750	51050	43600	40000	41004	34750	44150	33300	14870	45050	44550	43850	25450	9650
ARAB DAM SEEPAGE	M3	3750	3750	3700	3700	3700	3700	3700	3700	3700	3700	3700	3700	3700	3700	3700	3700	3650	3650	3650
ARAB DAM GATE	M3																			
ARAB DAM OVERFLOW	M3																			
ARAB DAM TOTAL OUTFLOW	M3	64250	47250	45260	40520	63250	41250	56250	47250	43250	47250	41250	52250	41250	51250	51250	51250	50250	31250	15250
DIFFERENCE STORAGE	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W.ARAB COURSE TRIBUTARY	M3	6614	6614	6668	6668	6668	6668	6668	6668	6668	6668	6668	6668	6668	6668	6668	6668	6718	6718	6718
W.ARAB COURSE TO KAC-N	M3	7488	7218	6768	5868	6912	5936	6912	6624	7218	6912	5331	6912	5976	6912	6624	7218	6768	5064	6912
W.ARAB COURSE TO W.R SOI	M3	1152	1422	1872	2772	1728	2064	1728	2016	1422	1728	3306	1728	3654	1728	2016	1422	1872	3636	1728
W.ARAB COURSE TO WASTE	M3	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728
ZIGLAB DAM LEVEL	M	109	108.85	108.9	108.54	108.34	108.17	108.02	107.85	107.6	107.35	107.42	107.27	107.38	107.45	107.20	106.95	106.60	106.34	106.14
ZIGLAB DAM STORAGE (BOD)	M3	1057170	1035450	1012160	993980	985580	942290	922740	901075	871200	841325	849690	831765	814910	853275	823430	793525	751700	720630	698750
ZIGLAB INFLOW FROM W.ZIGLAB	M3	17280	17280	17280	17280	17280	17280	17280	17280	17280	17280	17280	17280	17280	17280	17280	17280	17280	17280	17280
ZIGLAB INFLOW FROM KAC-N	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ZIGLAB DAM TOTAL INFLOW	M3	17280	17280	17280	17280	17280	17280	17280	17280	17280	17280	17280	17280	17280	17280	17280	17280	17280	17280	17280
ZIGLAB DAM EVAPORATION	M3	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200
ZIGLAB DAM CAR TO KAC-N	M3																			
ZIGLAB DAM CAR TO NEG	M3	38000	39370	35260	43440	39370	30030	38715	45955	45955	7715	34005	2935	77.5	45955	45955	57405	47150	39980	35670
ZIGLAB DAM SEEPAGE	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ZIGLAB DAM GATE	M3																			
ZIGLAB DAM OVERFLOW	M3																			
ZIGLAB DAM TOTAL OUTFLOW	M3	39200	40570	36460	44640	40570	37830	37945	47155	47155	8915	35205	4135	8915	47155	47155	59105	48350	41180	43870
DIFFERENCE STORAGE	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W ZIGLAB COUSE TRIBUTARY	M3																			
W.ZIGLAB COUSE TO KAC-N	M3																			
W.ZIGLAB COUSE TO W.R SOI	M3																			
W.ZIGLAB COUSE TO WASTE	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TALAL DAM LEVEL	M	154.8	154	153.87	153.74	153.61	153.48	153.35	153.24	153.12	152.99	152.86	152.73	152.60	152.47	152.33	152.19	152.04	151.89	151.76
TALAL DAM STORAGE (BOD)	M3	31701500	31500000	31315725	31131450	30947175	30762900	30523625	30422700	30252000	30068325	29884050	29699775	29515500	29331225	29132775	28934325	28721700	28509075	28324500
TALAL.D INFLOW FROM Z.RIVER	M3	136867	136830	131919	131852	130430	130337	124065	135037	137440	137383	138680	141316	139859	126852	124107	117965	119755	145396	116993
TALAL DAM EVAPORATION	M3	16862	18240	18132	18065	16613	16550	16438	16435	15013	14956	16253	18839	17472	18743	15998	15931	17181	14472	14429
TALAL DAM SEEPAGE	M3	4465	4465	4302	4302	4302	4202	4302	4302	4302	4302	4302	4302	4302	4159	4159	4159	4159	4159	4159
TALAL DAM GATE	M3	311040	298440	293760	293760	293760	293760	293200	284400	302400	302400	302400	302400	302400	302400	302400	310500	311040	311040	311040
TALAL DAM OVERFLOW	M3																			
TALAL DAM TOTAL OUTFLOW	M3	332507	321275	316154	316127	314675	314612	3295-0	305137	321715	321658	322955	325591	324174	325302	322557	330590	332380	329671	329618
DIFFERENCE STORAGE	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Z.RIVER COURSE TRIBUTARY	M3	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912
Z.RIVER COURSE TO KAC-S	M3	138240	129600	103680	116640	133920	116649	77760	60480	116640	120960	120960	129600	86400	103000	108000	120960	112320	108000	138240
Z RIVER COURSE TO M.G ZCI	M3	43200	51840	43200	43200	47520	43200	43200	43200	47520	43200	43200	43200	38880	43200	43200	50112	43200	43200	51840
Z.RIVER COURSE TO M.G.ZCII	M3	129600	129600	146880	133920	112320	133920	133920	146880	125600	138240	138240	129600	120960	155520	155520	133920	155520	159840	120960
Z RIVER COURSE TO M.G S.C	M3																			
Z.RIVER COURSE TO W.R SOI	M3																			
Z.RIVER COURSE TO WASTE	M3	11377	-1223	11214	11214	11214	11214	15534	45054	19854	11214	11214	11214	67374	6751	6751	16579	11071	11071	11071

[redacted]		[redacted] 1	[redacted] 2	[redacted] 3	[redacted] 4	[redacted] 5	[redacted] 6	[redacted] 7	[redacted] 8	[redacted] 9	[redacted] 10	[redacted] 11	[redacted] 12	[redacted] 13	[redacted] 14	[redacted] 15	[redacted] 16	[redacted] 17	[redacted] 18	[redacted] 19
ARAB DAM LEVEL	M	124.66	124.54	124.75	124.85	125.06	125.17	125.30	125.40	125.52	125.64	125.78	125.98	126.12	126.28	126.32	126.43	126.40	126.34	126.30
ARAB DAM STORAGE (BOD)	M3	4587000	4617000	4539000	4466000	4375000	4312000	4250000	4203000	4146000	4090000	4024000	3931000	3866000	3792000	3760000	3719000	3736000	3747000	3783000
ARAB DAM INFLOW FROM W.ARAB	M3	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250
ARAB DAM INFLOW FROM KAC-N	M3	70840	0	0	0	0	0	0	0	0	0	0	0	0	32750	20260	75150	63930	115350	60900
ARAB DAM TOTAL INFLOW	M3	71090	250	250	250	250	250	250	250	250	250	250	250	250	33000	20510	75400	64180	115600	61150
ARAB DAM EVAPORATION	M3	2000	1950	2800	2300	2450	2500	2800	3350	2850	2800	2400	2800	2800	2700	2650	2500	2500	2800	2000
ARAB DAM CAR TO KAC-N	M3		29350	23630	25040	12850														
ARAB DAM CAR TO NEG	M3	35440	43300	43170	56260	44350	56150	40850	50300	49600	59850	86650	58850	67850	58700	55260	50300	49080	74200	32550
ARAB DAM SEEPAGE	M3	3650	3650	3650	3650	3600	3600	3600	3600	3600	3600	3600	3600	3600	3600	3600	3600	3600	3600	3600
ARAB DAM GATE	M3																			
ARAB DAM OVERFLOW	M3																			
ARAB DAM TOTAL OUTFLOW	M3	41050	76250	73250	91250	63250	62250	47250	57250	56250	66250	53250	63250	74250	65000	61510	56400	55180	79500	38150
DIFFERENCE STORAGE	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W.ARAB COURSE TRIBUTARY	M3	6718	6718	6718	6718	6768	6768	6768	6768	6768	6768	6768	6768	6769	6766	6768	6768	6768	6768	6768
W.ARAB COURSE TO KAC-N	M3	6876	5004	7200	5976	6912	6624	7218	6768	5004	7200	5976	6912	6624	7218	6768	5004	7200	5976	7992
W.ARAB COURSE TO W.R SO1	M3	1764	3636	1440	2664	1728	2016	1422	1872	3636	1440	2664	1728	2016	1422	1872	3636	1440	2664	648
W.ARAB COURSE TO WASTE	M3	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728
ZIGLAB DAM LEVEL	M	102.95	102.9	102.75	102.55	102.36	102.18	102.03	101.7	101.41	101.64	101.86	102.04	102.15	102.35	102.55	102.75	103.00	103.22	103.42
ZIGLAB DAM STORAGE (BOD)	M3	383120	377300	362750	343350	324920	307460	291940	266450	246040	261740	277440	293880	304550	323950	343350	362750	387000	408340	429680
ZIG.D INFLOW FROM W.ZIGLAB	M3	17280	17280	17280	17280	17280	17280	17280	17280	17280	16900	17640	17280	21600	21600	21600	24750	21840	21840	21870
ZIG.D INFLOW FROM KAC-N	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ZIGLAB DAM TOTAL INFLOW	M3	17280	17280	17280	17280	17280	17280	17280	17280	17280	16900	17640	17280	21600	21600	21600	24750	21840	21840	21870
ZIGLAB DAM EVAPORATION	M3	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	500	500	500	500
ZIGLAB DAM CAR TO KAC-N	M3																			
ZIGLAB DAM CAR TO NEG	M3	21900	30630	35490	34510	33540	31630	41570	36650	360	0	0	5110	1900	1000	1000	0			1000
ZIGLAB DAM SEEPAGE	M3	0																		
ZIGLAB DAM GATE	M3																			
ZIGLAB DAM OVERFLOW	M3																			
ZIGLAB DAM TOTAL OUTFLOW	M3	23100	31830	36680	35710	34740	32830	42770	37650	1580	1200	1200	6610	2200	2200	2200	500	500	500	1500
DIFFERENCE STORAGE	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W.ZIGLAB COUSE TRIBUTARY	M3																			
W.ZIGLAB COUSE TO KAC-N	M3																			
W.ZIGLAB COUSE TO W.R SO7	M3																			
W.ZIGLAB COUSE TO WASTE	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TALAL DAM LEVEL	M	150.05	149.97	149.78	149.6	149.42	149.29	149.24	149.14	148.95	148.73	148.53	148.33	148.13	148.01	147.85	147.81	147.75	147.84	147.90
TALAL DAM STORAGE (BOD)	M3	19724999	19531666	19409999	19199999	18989999	18890676	18779995	18663333	18450000	18230000	18030000	17830000	17630000	17510000	17360000	17310000	17260000	17340000	17400000
TALAL.D INFLOW FROM Z.RIVER	M3	140972	141645	153117	154262	192790	80938	132222	151914	184718	209225	168389	159935	166423	173820	172383	173354	219938	200538	191294
TALAL DAM EVAPORATION	M3	12420	13627	13543	14688	14539	14547	14515	15673	15574	16649	11812	10559	10487	10444	6926	3577	4762	7162	8092
TALAL DAM SEEPAGE	M3	4085	4085	3974	3974	3974	3973	3974	3973	3974	3776	3777	3776	3776	3776	3777	3777	3776	3776	3602
TALAL DAM GATE	M3	217800	345600	345600	345600	273600	172800	230400	345600	385200	388800	352800	345600	272160	309600	211680	216000	131400	129600	129600
TALAL DAM OVERFLOW	M3																			
TALAL DAM TOTAL OUTFLOW	M3	234305	363312	363117	364262	292313	191615	248889	365246	484718	439225	368389	359935	286423	323820	222383	223354	139938	140538	141294
DIFFERENCE STORAGE	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Z.RIVER COURSE TRIBUTARY	M3	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912
Z.RIVER COURSE TO KAC-S	M3	17280	139363	134053	123552	144306	167011	144836	73440	112320	133920	142560	129960	103680	95040	64800	43200	51840	69120	43200
Z.RIVER COURSE TO M.G.2C1	M3	47520	60480	50371	50630	38794	0	0	38880	45792	47520	43200	41472	38880	43200	30240	38880	17280	17280	17280
Z.RIVER COURSE TO M.G.2C11	M3	133920	145757	151632	173405	214445	0	0	214272	198720	203040	181440	168480	138240	138240	129600	125280	60480	43200	69120
Z.RIVER COURSE TO M.G S.C	M3																			
Z.RIVER COURSE TO W.R SO8	M3																			
Z.RIVER COURSE TO WASTE	M3	30077	10997	20390	4899	-113559	16674	96480	29893	39254	15008	-3711	16376	2048	43604	-2271	19329	12488	10688	10514

MONTH October YEAR 1994 DAYS 31

CONTROLED RESOURCES/ DAMS		20	21	22	23	24	25	26	27	28	29	30	31	TOTAL M3	TOTAL L/S	AVERAGE L/S	Total 1-Total 16 MCM	MCM
ARAB DAM LEVEL	M	126.25	126.34	126.43	126.77	-126.86	-127.00	-127.13	-127.34	-127.52	-127.67	-127.80	-127.90	3011000				
ARAB DAM STORAGE (BOD)	M3	3806000	3765000	3633000	3570000	3529000	3466000	3391000	3316000	3236000	3171000	3115000	3071000	1576000	18241	588	5139.57	4843.24
ARAB DAM INFLOW FROM W.ARAB	M3	250	250	250	250	250	250	250	250	250	250	250	250	7750	90	3	0.324	0.3456
ARAB DAM INFLOW FROM KAC-N	M3	0	0	0	5860	0	0	0	0	0	0	0	0	445040	5151	166	10.7006	27.7508
ARAB DAM TOTAL INFLOW	M3	250	250	250	6110	250	250	250	250	250	250	250	250	452790	5241	169	11.0246	28.0964
ARAB DAM EVAPORATION	M3	2000	2100	2300	2200	1750	1750	2000	2100	1850	1850	1800	1800	71850	832	27	3.41712	2.39072
ARAB DAM CAR TO KAC-N	M3	26190	35010	2320	0	16490	16790	16780	16800	0	0	0	0	225250	2607	84	8.19677	11.2648
ARAB DAM CAR TO NEG	M3	9460	91540	55030	41310	41410	53110	52870	57750	59850	50850	38900	54850	1620040	18750	605	69.7231	70.2484
ARAB DAM SEEPAGE	M3	3600	3600	3600	3600	3600	3600	3600	3600	3550	3550	3550	3600	111650	1292	42	4.68288	4.96364
ARAB DAM GATE	M3													0	0	0	0	0
ARAB DAM OVERFLOW	M3													0	0	0	0	0
ARAB DAM TOTAL OUTFLOW	M3	41250	132250	63250	47110	63250	75250	75250	80750	65250	56750	44250	60250	2026790	23481	757	86.0198	89.2676
DIFFERENCE STORAGE	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W.ARAB COURSE TRIBUTARY	M3	6768	6768	6768	6768	6768	6768	6768	6768	6818	6818	6818	6768	209758	2428	78	8.75405	9.36904
W ARAB COURSE TO KAC-N	M3	6048	8082	6768	4572	6480	6264	6696	7776	8082	6768	4572	6912	203472	2355	76	8.49139	9.08859
W.ARAB COURSE TO W.R SOI	M3	2592	558	1872	4068	2160	2376	1944	864	558	1872	4068	1728	64368	745	24	2.70605	2.85535
W.ARAB COURSE TO WASTE	M3	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	53568	620	20	2.23949	2.38879
ZIGLAB DAM LEVEL	M	103.65	103.85	104.05	104.26	104.45	104.65	104.85	105.05	105.25	105.45	105.70	105.90	691950			0.13249	0.14424
ZIGLAB DAM STORAGE (BOD)	M3	450050	469450	488900	509440	528100	547700	567300	585920	606500	626100	650600	670200	-308830	-3574	-115	406.792	716.089
ZIG.D INFLOW FROM W.ZIGLAB	M3	20900	20950	22080	20620	21100	21100	21120	22080	21600	26000	21100	23250	624340	7226	233	23.5129	30.4301
ZIG.D INFLOW FROM KAC-N	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ZIGLAB DAM TOTAL INFLOW	M3	20900	20950	22080	20620	21100	21100	21120	22080	21600	26000	21100	23250	624340	7226	233	23.5129	30.4301
ZIGLAB DAM EVAPORATION	M3	500	500	500	500	500	500	500	500	500	500	500	500	26000	301	10	1.5552	0.6912
ZIGLAB DAM CAR TO KAC-N	M3													0	0	0	0	0
ZIGLAB DAM CAR TO NEG	M3	1000	1000	1000	1500	1000	1000	2000	1000	1500	1000	1000	1000	289510	3351	108	23.7177	1.296
ZIGLAB DAM SEEPAGE	M3													0	0	0	0	0
ZIGLAB DAM GATE	M3													0	0	0	0	0
ZIGLAB DAM OVERFLOW	M3													0	0	0	0	0
ZIGLAB DAM TOTAL OUTFLOW	M3	1500	1500	1500	2000	1500	1500	2500	1500	2000	1500	1500	1500	315510	3652	118	25.2729	1.9872
DIFFERENCE STORAGE	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W.ZIGLAB COUSE TRIBUTARY	M3													0	0	0	0	0
W.ZIGLAB COUSE TO KAC-N	M3													0	0	0	0	0
W.ZIGLAB COUSE TO W.R SOI	M3													0	0	0	0	0
W ZIGLAB COUSE TO WASTE	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TALAL DAM LEVEL	M	147.95	147.99	147.91	147.86	147.78	147.70	147.60	147.50	147.42	147.29	147.14	147.02	16120000			0.19311	0.20412
TALAL DAM STORAGE (BOD)	M3	17450000	17490000	17410000	17360000	17280000	17200000	17100000	17000000	16920000	16790000	16640000	16520000	3304999	38252	1234	24047.8	23714.2
TALAL.D INFLOW FROM Z.RIVER	M3	182463	170794	200322	170272	228012	188186	190321	191637	193578	158915	171111	204303	5417825	62706	2023	205.472	262.228
TALAL DAM EVAPORATION	M3	9261	11596	12720	12698	9210	9164	6864	7980	6421	5658	6754	5604	324241	3753	121	16.9601	11.0543
TALAL DAM SEEPAGE	M3	3602	3602	3602	3602	3602	3602	3557	3557	3557	3557	3557	3557	116529	1349	44	5.06484	5.00126
TALAL DAM GATE	M3	129600	235600	234000	233972	295290	275400	239900	260100	313200	299700	280800	295142	8282054	95857	3092	392.501	323.408
TALAL DAM OVERFLOW	M3													0	0	0	0	0
TALAL DAM TOTAL OUTFLOW	M3	142463	250798	250322	250272	308012	288186	290321	271637	323578	308915	291111	304303	8722834	100959	3257	414.528	339.124
DIFFERENCE STORAGE	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Z.RIVER COURSE TRIBUTARY	M3	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	214272	2480	80	8.95795	9.55515
Z.RIVER COURSE TO KAC-S	M3	51840	133920	95040	95040	106704	103594	94003	94003	71539	161309	134006	118454	3193443	36961	1192	149.181	126.733
Z.RIVER COURSE TO M.G.ZCI	M3	17280	21600	29376	29376	32400	25920	44669	44496	28512	28512	28598	27648	1026086	11876	383	49.451	38.8628
Z.RIVER COURSE TO M.G.ZCII	M3	60480	56160	103680	103680	112320	134240	136485	128045	99706	152064	151459	146880	3828420	44350	1448	189.319	145.781
Z RIVER COURSE TO M.G.S.C	M3													0	0	0	0	0
Z.RIVER COURSE TO W.R SOI	M3													0	0	0	0	0
Z.RIVER COURSE TO WASTE	M3	10514	34434	16418	16390	54290	14160	15312	4075	123912	-31716	-22794	12629	514856	5959	192	18.1754	26.3082

MONTH NOVEMBER YEAR 1994 1995 30

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CONTROLLED RESERVOIRS DAMS		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
AKAB DAM LEVEL	M	128.04	128.29	128.31	128.25	128.31	128.34	128.22	128.16	128.16	128.15	128.04	128.04	127.91	127.81	127.65	127.32	127.17	126.82	126.60
AKAB DAM STORAGE (ECM)	M3	3011000	3047000	3060000	3010000	3060000	3080000	2872000	2950000	2950000	2941000	2941000	3011000	3027000	3110000	3175000	3324000	3435000	3540000	3640000
AKAB DAM INFLOW FROM W.AKAB	M3	250	250	74250	250	32400	23760	50040	5850	250	250	250	250	250	4560	43000	14300	12250	350	27350
AKAB DAM INFLOW FROM RAC-B	M3	0	0	34510	0	6000	15840	37620	8550	28250	24750	22250	67750	65250	92340	105600	122000	104250	103550	105650
AKAB DAM TOTAL INFLOW	M3	250	250	109760	250	41250	39600	88660	14400	28500	24750	22500	68000	65500	97000	153600	136300	116500	103900	133000
AKAB DAM EVAPORATION	M3	2500	1750	1150	1200	1500	1400	1500	1500	1600	1500	1500	1500	1500	1000	1600	1500	1500	1500	1500
AKAB DAM CAR TO RAC-A	M3	-																		
AKAB DAM CAR TO KPS	M3	58750	61950	82900	31600	31500	21500	15800	14800	13200	0	0	0	17500	37400	0				
AKAB DAM SEEPAGE	M3	3550	3550	3550	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500
AKAB DAM GATE	M3																			
AKAB DAM OVERFLOW	M3																			
AKAB DAM TOTAL OUTFLOW	M3	64250	51250	88400	34250	41000	30600	30100	19850	18500	4000	3500	5000	22000	33000	4500	5100	4500	4500	4550
DIFFERENCE STORAGE	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W.AKAB COURSE TO BAC-B	M3	6600	6200	6500	6600	6700	6700	6700	6700	6700	6700	6700	6700	6700	6700	6700	6700	6700	6700	6700
W.AKAB COURSE TO RAC-B	M3	8640	8640	8640	8640	8640	8640	8640	8640	8640	8640	8640	8640	8640	8640	8640	8640	8640	8640	8640
W.AKAB COURSE TO W.B SDA	M3																			
W.AKAB COURSE TO WASIZ	M3	1720	1720	1720	1720	1720	1720	1720	1720	1720	1720	1720	1720	1720	1720	1720	1720	1720	1720	1720
ZIGLAB DAM LEVEL	M	106.1	106.28	106.32	106.6	106.78	107.14	107.4	107.68	108.95	109.14	109.2	108.70	108.90	109.12	109.37	109.45	110.05	110.25	110.45
ZIGLAB DAM STORAGE (ECM)	M3	692950	714450	724570	751700	773210	814100	847600	870750	910635	904000	925000	910000	1000000	1072440	1106690	1172450	1200450	1230250	1260050
ZIGLAB INFLOW FROM W.ZIGLAB	M3	23010	21010	20230	22010	36740	34350	30500	30375	30765	37400	34000	27500	33040	34750	66260	28500	30300	30300	28800
ZIGLAB INFLOW FROM RAC-B	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ZIGLAB DAM TOTAL INFLOW	M3	23010	21010	20230	22010	36740	34350	30500	30375	30765	37400	34000	27500	33040	34750	66260	28500	30300	30300	28800
ZIGLAB DAM EVAPORATION	M3	500	500	500	500	500	500	500	500	550	500	500	500	500	500	500	500	500	500	500
ZIGLAB DAM CAR TO RAC-B	M3																			
ZIGLAB DAM CAR TO KPS	M3	1800	1000	3000																
ZIGLAB DAM SEEPAGE	M3																			
ZIGLAB DAM GATE	M3																			
ZIGLAB DAM OVERFLOW	M3																			
ZIGLAB DAM TOTAL OUTFLOW	M3	1500	1500	3500	4500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
DIFFERENCE STORAGE	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W.ZIGLAB COURSE TO [illegible]	M3																			
W.ZIGLAB COURSE TO RAC-B	M3																			
W.ZIGLAB COURSE TO W.B SDA	M3																			
W.ZIGLAB COURSE TO WASIZ	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TALAL DAM LEVEL	M	146.92	146.82	149.72	153.44	154.55	155.05	156.3	157.41	157.74	157.91	158.04	158.1	158.18	158.12	158.17	158.24	158.41	158.62	158.79
TALAL DAM STORAGE (ECM)	M3	15420000	16130000	16200000	23620524	25217013	15949599	27766343	29385185	29920868	30110413	30 [illegible]	30441870	30552419	30652510	30536555	30655010	30541835	30290000	31583135
TALAL D INFLOW FROM ZIGLAB	M3	195525	194372	771146	1550379	7610.6	1634192	1645879	506467	26[illegible]439	245.37	264.35	292978	274[illegible]3	490166	341205	1284716	361169	295001	194314
TALAL DAM EVAPORATION	M3	11168	10015	4135	4330	2844	4176	7456	10954	12156	[illegible]	1165	11025	6316	4728	3.57	316	4772	4303	4324
TALAL DAM SEEPAGE	M3	3557	3557	3557	3678	3678	3678	3678	3678	3678	[illegible]	3923	3923	3923	3923	3923	3923	3923	3923	4303
TALAL DAM GATE	M3	260496	260600	124200	172600	84490	0	0	0	0	36[illegible]	143078	355634	357440	210000	993600	0	0	0	
TALAL DAM OVERFLOW	M3																			
TALAL DAM TOTAL OUTFLOW	M3	295525	294372	132192	18.611	92922	8154	11138	14452	16134	[illegible]	15[illegible]	15[illegible]	37[illegible]73	406091	223080	997839	8654	8726	8339
DIFFERENCE STORAGE	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ZIGLAB COURSE TO RAC-B	M3	6312	6312	17500	17500	8500	17000	17500	17500	7500	7500	7500	7500	7500	7500	7500	7500	7500	7500	7500
ZIGLAB COURSE TO RAC-S	M3	128736	118368		41200							15658	43200	81080	103680	25920	0			
ZIGLAB COURSE TO W.G.SDA	M3	25920	226320	25920	21600								47520	43200	23760	0				
ZIGLAB COURSE TO W.G.SDB	M3	145800	149176	118108											45741	0				
ZIGLAB COURSE TO W.G.S.C	M3															0				
ZIGLAB COURSE TO W.B SDA	M3															0				
ZIGLAB COURSE TO WASIZ	M3	-10067	-201595	1725	129.76	9078	20578	23676	11176	11178	47207	144565	63781	251777	214632	201503	1005023	11422	11423	11560

[redacted]		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
[redacted]		20	21	22	23	24	25	26	27	28	29	30	31	M3	L/S	L/S	MCM	MCM
AR49 DAM LEVEL	M	126.32	126.11	125.89	125.68	125.36	124.81	124.59	124.33	123.83	123.65	123.42		5286000				
AR49 DAM STORAGE (BOD)	M3	3778300	3871000	3739500	4371000	4323900	4155300	4572000	4723000	4938300	5078000	5175300	5225000	-2275000	-26331	-876	-313000	-1562330
AR49 DAM INFLOW FROM W.AR43	M3	250	250	250	56750	164370	3250	25090	119750	21250	21170	2303	0	715140	8278	275	245340	454440
AR49 DAM INFLOW FROM DIC-B	M3	102090	106550	102950	95430	102480	107650	103150	102950	102150	135550	1 3252	0	2068300	23944	796	525440	1553350
AR49 DAM TOTAL INFLOW	M3	102250	107200	1.3203	152180	266850	111400	132150	222150	124 3	156800	111455	0	2783920	32222	1071	792780	2013632
AR49 DAM EVAPORATION	M3	1650	1650	1760	500	450	1250	500	500	750	500	450		36550	423	14	21150	15429
AR49 DAM CAR TO RAC-B	M3													0	0	0	0	0
AR49 DAM CAR TO NES	M3													364230	4216	141	361230	0
AR49 DAM SEEPAGE	M3	3500	3500	3500	3500	3650	3650	3650	3650	3500	3500	3550		138120	1599	53	53800	54160
AR49 DAM GATE	M3													0	0	0	0	0
AR49 DAM OVERFLOW	M3													0	0	0	0	0
AR49 DAM TOTAL OUTFLOW	M3	5150	5200	5200	4050	4050	4900	4150	4150	4150	4050	4050	0	508980	5891	196	439180	69520
DIFFERENCE STORAGE	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W.AR49 COURSE TRIBUTARY	M3	6750	6760	6750	6750	6750	6750	6750	6750	6750	6750	6750	0	202540	2345	78	151320	191120
W.AR49 COURSE TO RAC-B	M3	8540	8540	8540	8540	8540	8540	8540	8540	8540	8540	8540	0	255200	3000	100	129600	125600
W.AR49 COURSE TO W.F SCI	M3													0	0	0	0	0
W.AR49 COURSE TO WASTE	M3	1720	1730	1730	1720	1720	1720	1720	1720	1720	1720	1720	0	51610	600	20	25620	25610
ZIGLAB DAM LEVEL	M	110.44	110.84	111.03	111.23	111.45	111.65	111.85	112.06	112.25	112.43	112.61		1637625				
ZIGLAB DAM STORAGE (BOD)	M3	1288360	1319160	1345375	1370275	1439050	1438850	1482550	1501350	1531125	1565175	1601130	1637625	-315675	-10915	-365	-455500	-455175
ZIG.D INFLOW FROM W ZIGLAB	M3	30300	28810	30300	33250	39300	30300	31200	33450	31850	37028	37028	0	966799	11190	375	493000	473799
ZIG D INFLOW FROM RAC-B	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ZIGLAB DAM TOTAL INFLOW	M3	30300	28810	30300	33250	39300	30300	31200	33450	31850	37028	37028	0	966799	11190	375	493000	473799
ZIGLAB DAM EVAPORATION	M3	500	500	500	500	500	500	500	500	500	500	500		15000	174	6	7500	7500
ZIGLAB DAM CAR TO RAC-B	M3													0	0	0	0	0
ZIGLAB DAM CAR TO NES	M3													5000	58	2	5000	0
ZIGLAB DAM SEEPAGE	M3								215	303	303	303		1124	13	0	0	1124
ZIGLAB DAM GATE	M3													0	0	0	0	0
ZIGLAB DAM OVERFLOW	M3													0	0	0	0	0
ZIGLAB DAM TOTAL OUTFLOW	M3	500	500	500	500	500	500	500	715	803	803	803	0	21124	244	8	12500	8624
DIFFERENCE STORAGE	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W ZIGLAB COURSE TRIBUTARY	M3													0	0	0	0	0
W.ZIGLAB COURSE TO RAC-B	M3													0	0	0	0	0
W.ZIGLAB COURSE TO W.F SCI	M3													0	0	0	0	0
W ZIGLAB COURSE TO WASTE	M3	0	0	0	0	0	0	0	215	303	303	303	0	1124	13	0	0	1124
TAIAL DAM LEVEL	M	158.90	158.94	159.00	159.0	159.70	159.82	163.28	163.85	163.85	163.86	164.06		42104169				
TAIAL DAM STORAGE (BOD)	M3	3[illegible]7260	3183[illegible]260	3197519	[illegible]	[illegible]3118760	[illegible]	[illegible]572	[illegible]	[illegible]	[illegible]	[illegible]170	42104169	-25583169	-297270	-9[illegible]	-14235010	-11[illegible]159
TAIAL.D INFLOW FROM E.RIVER	M3	186021	149937	213536	1125138	5733566	136733	363124	436302	443991	452946	817733		25563858	342975	11399	16625673	12853935
TAIAL DAM EVAPORATION	M3	6450	6876	8100	6592	6590	7.62	3655	0	2023	1622	745	0	125130	2027	68	120250	64880
TAIAL DAM SEEPAGE	M3	4261	4061	4.61	4061	4061	4169	4169	4169	4459	4459	4169		116978	1377	46	58032	62546
TAIAL DAM GATE	M3	108500	37800	147000	21600	0	0	0	0	0	38020			3568381	41331	1377	2254381	1314500
TAIAL DAM OVERFLOW	M3													0	0	0	0	0
TAIAL DAM TOTAL OUTFLOW	M3	118521	43737	129161	32253	10651	11736	8124	4169	6459	43320	5514	0	3683489	46705	1556	2420663	1441426
DIFFERENCE STORAGE	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E.RIVER COURSE TRIBUTARY	M3	7500	7500	7500	7500	7500	7500	7500	7500	7500	7500	7500		266024	3088	103	198324	112500
E.RIVER COURSE TO RAC-S	M3													563243	6519	217	563243	0
E.RIVER COURSE TO M.G.SCI	M3													434240	4794	160	434240	0
E.RIVER COURSE TO M.G SCII	M3													459905	5323	177	459905	0
E.RIVER COURSE TO M.G.S.C	M3													0	0	0	0	0
E.RIVER COURSE TO W.S SCI	M3													0	0	0	0	0
E.RIVER COURSE TO WASTE	M3	119561	49361	128561	33161	11561	11969	11969	11969	11969	43969	11969	0	2516796	29130	971	1027350	1489415

CONTROLLED RESOURCES/ DAMS		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15.Total 1-15
																M3
ARAB DAM LEVEL	M	121.2	121.95	122.5	122.19	121.96	121.8	121.61	121.4	121.21	121.01	120.9	120.7	120.51	120.31	120.15	7032000
ARAB DAM STORAGE (B D)	M3	5286000	5329000	5637300	5419000	5412000	6017000	6114000	6232000	6335000	6441000	6540000	6651000	6713000	6830000	6912000	5285677
ARAB DAM INFLOW FROM W.ARAB	M3	5300	142950	75000	21000	4000	700	400	500	500	400	400	400	1000	1000	700	254190
ARAB DAM INFLOW FROM RAC-N	M3	108250	95160	102150	107500	94130	105950	118550	106850	112500	63500	114050	104450	114450	95500	116750	1561630
ARAB DAM TOTAL INFLOW	M3	113550	242150	177150	128500	94520	106650	117950	107350	113000	64300	114450	104850	115450	96500	117450	1815820
ARAB DAM EVAPORATION	M3	500	500	550	600	500	700	750	850	700	650	800	700	750	800	750	10200
ARAB DAM CAR TO RAC-N	M3																0
ARAB DAM CAR To W A.Complex	M3																0
ARAB DAM SEEPAGE	M3	3600	3500	3500	3600	3600	3600	3500	3500	3500	3600	3600	3500	3500	3500	3500	55000
ARAB DAM GATE	M3				2500	5170											7670
ARAB DAM OVERFLOW	M3																0
ARAB DAM TOTAL OUTFLOW	M3	4550	4050	4050	4100	6600	4300	4250	4350	4200	4250	4400	4250	4250	4300	4250	73820
DIFFERENCE STORAGE	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W ARAB COURSE TRIBUTARY	M3	6718	6718	6718	6718	6718	6718	6718	6718	6718	6718	6718	6718	6718	6718	6718	100526
W.ARAB COURSE TO RAC-N	M3																0
W.ARAB COURSE TO W.R SOT	M3											2772					2772
W ARAB COURSE TO WASTE	M3	10368	10368	10368	10368	10368	10368	10368	10368	10368	10368	7596	10368	10368	10368	10368	103368
ZIGLAB DAM LEVEL	M	112.65	113.07	113.25	113.4	113.58	113.73	113.93	114.14	114.35	114.32	114.45	114.6	114.73	114.85	114.97	2030150
ZIGLAB DAM STORAGE (B3D)	M3	1637625	1675625	1700625	1713500	1763750	1783125	1803750	1824000	1845000	1834375	1844000	1855000	1866875	1880625	1897125	1637512
ZIGLAB INFLOW FROM W.ZIGLAB	M3	38553	31453	26373	21553	26633	26633	26568	25468	25468	25468	25468	21903	21934	21938	21903	432875
ZIGLAB INFLOW FROM RAC-N	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ZIGLAB DAM TOTAL INFLOW	M3	38553	31453	26373	21553	26633	26633	26568	25468	25468	25468	25468	21903	21934	21938	21903	432875
ZIGLAB DAM EVAPORATION	M3	200	200	250	200	200	200	250	250	200	200	250	200	200	200	200	3000
ZIGLAB DAM CAR TO RAC-N	M3																0
ZIGLAB DAM CAR TO W.A.Complex	M3	0	0	0	0	0	0	0	0								0
ZIGLAB DAM SEEPAGE	M3	300	300	300	300	500	550	500	550	550	550	550	500	550	550	500	7350
ZIGLAB DAM GATE	M3																0
ZIGLAB DAM OVERFLOW	M3																0
ZIGLAB DAM TOTAL OUTFLOW	M3	500	500	550	500	700	750	750	800	750	750	800	750	750	750	750	10350
DIFFERENCE STORAGE	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W.ZIGLAB COURSE TRIBUTARY	M3																0
W.ZIGLAB COURSE TO RAC-N	M3																0
W ZIGLAB COURSE TO W R SOT	M3																0
W ZIGLAB COURSE TO WASTE	M3	300	300	300	300	500	500	500	500	500	500	500	500	500	500	500	7350
TOTAL DAM LEVEL	M	164.65	165	165.25	166.48	167.51	167.91	168.14	168.32	168.34	168.42	168.46	168.46	168.46	168.46	168.46	
TOTAL DAM STORAGE (B D)	M3	4193193	4227935	4252233	4736365	4851270	4920300	4935400	5030333	5036000	5054031	5062410	5062540	5062410	5062540	5062350	-8740013
TOTAL D INFLOW FROM Z RIVER	M3	344390	126786	200240	171071	86954	45028	25450	27450	26247	25382	12982	16014	17157	17833	17533	9872394
TOTAL DAM EVAPORATION	M3	1532	942	1340	2019	2121	2172	2167	2320	2240	2256	4175	7367	8150	6263	6263	77437
TOTAL DAM SEEPAGE	M3	4468	4468	4468	4647	4647	4647	4647	4647	4647	4647	4647	4647	4647	4410	4310	69434
TOTAL DAM GATE	M3									7500	125500	164500	164150	123120	124500		984350
TOTAL DAM OVERFLOW	M3																0
TOTAL DAM TOTAL OUTFLOW	M3	5970	5410	5808	6666	10768	14319	12317	14967	18453	149503	172482	170124	137.97	134493	125103	1131891
DIFFERENCE STORAGE	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Z.RIVER COURSE TRIBUTARY	M3	7500	7500	7500	7500	7500	7500	7500	7500	7500	7500	7500	7500	7500	7500	7500	112500
Z.RIVER COURSE TO RAC-S	M3													20045	43200	10800	74045
Z.RIVER COURSE TO M.G.ZCII	M3										4146		24151	15411	17283	14342	116381
Z RIVER COURSE TO M G ZCII	M3												63430	60480	43200	44146	208656
Z.RIVER COURSE TO M.G S.C	M3																0
Z.RIVER COURSE TO W R SOR	M3																0
Z.RIVER COURSE TO WASTE	M3	11968	11968	11968	12147	12147	12147	12147	12147	12147	97251	126027	91176	73371	31750	106842	767872

CONTROLLED RESOURCES/ DAMS		16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	TOTAL M3	TOTAL M.S	AVERAGE M.S	AVERAGE M3/DAY	TOTAL M3
ARAB DAM LEVEL	M	119.55	119.77	119.56	119.34	118.87	118.48	118.36	118.25	118.10	117.92	117.74	117.57	117.40	117.24	117.08	116.92	8921000				
ARAB DAM STORAGE (BOD)	M3	7032000	7133000	7241000	7341000	7706300	7877000	7947000	8013000	8101000	8208000	8315000	8417000	8513000	8618000	8713000	8817000	-1835000	-42072	-1357	-1317258	
ARAB DAM INFLOW FROM W.ARAB	M3	700	1000	1600	1734	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	613310	7098	2.9	17724	254350
ARAB DAM INFLOW FROM KAC-B	M3	104300	105300	90100	103600	114300	73400	68500	92500	110550	110600	106650	105700	100750	100650	107600	107650	3166360	36648	1182	432214	1564330
ARAB DAM TOTAL INFLOW	M3	105500	112300	256100	277100	115300	74400	69500	93500	111550	111600	106650	106700	101750	101650	108600	108600	3779670	43748	1411	122935	1818680
ARAB DAM EVAPORATION	M3	800	600	400	400	600	700	800	800	850	900	900	950	1000	900	850	900	22550	261	8	727	10200
ARAB DAM CAR TO KAC-A	M3				0	0	0											0	0	0	0	0
ARAB DAM CAR TO W.A.Complex	M3																	0	0	0	0	0
ARAB DAM SEEPAGE	M3	3700	3700	3700	3700	3700	3700	3700	3700	3700	3700	3750	3750	3750	3750	3750	3750	114500	1325	43	3694	50[illegible]
ARAB DAM GATE	M3																	7620	84	3	246	3620
ARAB DAM OVERFLOW	M3																	0	0	0	0	0
ARAB DAM TOTAL OUTFLOW	M3	4500	4300	4400	4100	4300	4400	4500	4500	4550	4600	4650	4700	4750	4650	4500	4650	144670	1674	54	4667	72420
DIFFERENCE STORAGE	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W ARAB COURSE TRIBUTARY	M3	6068	6068	6068	6068	6068	6068	6068	6068	6068	6068	6068	6068	6068	6068	6068	6068	202904	2395	77	6674	103[illegible]
W.ARAB COURSE TO KAC-A	M3																	0	0	0	0	0
W.ARAB COURSE TO W.A S.[illegible]	M3																	2772	32	1	89	2772
W.ARAB COURSE TO WASTE	M3	10368	10368	10368	10368	10368	10368	10368	10368	10368	10368	10368	10368	10368	10368	10368	10368	322656	3736	120	10408	150[illegible]
ZIGLAB DAM LEVEL	M	115.10	115.18	115.31	115.05	116.80	116.72	116.83	116.54	117.05	117.38	117.26	117.36	117.45	117.54	117.64	117.73	2512655				2030[illegible]
ZIGLAB DAM STORAGE (BOD)	M3	2010150	2044370	2067215	2198775	2306300	2329750	2352265	2372970	2384[illegible]	2415750	2437255	2456[illegible]	2472175	2490070	2509520	2527215	-905230	-[illegible]9477	-338	-2[illegible]201	27.41.75
ZIGLAB INFLOW FROM W.ZIGLAB	M3	21538	24044	132665	146625	24563	22773	22773	22773	22743	23[illegible]0	19233	19233	19233	21188	19639	17744	945067	10938	353	30466	40285
ZIGLAB INFLOW FROM KAC-B	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ZIGLAB DAM TOTAL INFLOW	M3	21538	24044	132665	146625	24563	22773	22773	22773	22743	23[illegible]0	19233	19233	19233	21188	19639	17744	945067	10938	353	30466	40285
ZIGLAB DAM EVAPORATION	M3	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	6200	72	2	200	3000
ZIGLAB DAM CAR TO KAC-A	M3																	0	0	0	0	0
ZIGLAB DAM CAR TO W.A.Complex	M3	6715																6715	78	3	217	0
ZIGLAB DAM SEEPAGE	M3	903	903	903	903	903	1068	1068	1068	1068	1025	1438	1438	1438	1438	1904	1904	26922	312	10	868	7350
ZIGLAB DAM GATE	M3																	0	0	0	0	0
ZIGLAB DAM OVERFLOW	M3			0														0	0	0	0	0
ZIGLAB DAM TOTAL OUTFLOW	M3	7816	1103	1163	1103	1103	1268	1268	1268	1268	1225	1638	1638	1638	1638	2104	2104	35837	461	15	1285	10350
DIFFERENCE STORAGE	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W ZIGLAB C OSE TRIBUTARY	M3																	0	0	0	0	0
W.ZIGLAB COURSE TO KAC-B	M3																	0	0	0	0	0
W.ZIGLAB COURSE TO W.A S[illegible]	M3																	0	0	0	0	0
W ZIGLAB COURSE TO WASTE	M3	903	903	903	903	903	1068	1068	1068	1068	1025	1438	1438	1438	1438	1904	1904	26922	312	10	868	7350
TALAL DAM LEVEL	M	168.48	168.48	168.61	168.67	171.22	171.40	171.97	172.14	172.26	172.37	172.47	172.53	172.62	172.64	172.73	172.84	60475145				
TALAL DAM STORAGE (BOD)	M3	50672350	50672350	50957955	51527137	56593865	57968840	58316075	58711405	59024145	59323041	59579113	59793976	59977650	59815614	60033476	60255303	-18543108	-23.1520	-0813	-598368	72712[illegible]
TALAL D INFLOW FROM Z RIVER	M3	176641	346192	591334	670531	1265[illegible]	383302	383314	384437	264155	292204	303836	295289	335143	242245	234155	232186	20618452	238639	7698	665111	9872504
TALAL DAM EVAPORATION	M3	1671	1353	1677	1943	3168	4536	4576	4596	5234	5267	5289	5338	5367	4574	7015	7031	165317	1913	62	5333	77437
TALAL DAM SEEPAGE	M3	4810	4310	4310	4310	4310	5063	5063	5063	5063	5063	5063	5313	5313	5313	5313	5313	150437	1742	56	4854	69434
TALAL DAM GATE	M3	164160	54720	0						7400	14[illegible]0	9530	10830	17530	14130	0		1759443	20361	657	56756	584364
TALAL DAM OVERFLOW	M3																	0	0	0	0	0
TALAL DAM TOTAL OUTFLOW	M3	170641	60783	6467	5858	3778	9599	9639	9659	18297	1[illegible]330	197952	181421	18[illegible]60	21387	12328	12344	2075244	24019	775	68943	1131891
DIFFERENCE STORAGE	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Z.RIVER COURSE TRIBUTARY	M3	7500	7500	7500	7500	7500	7500	7500	7500	7500	7500	7500	7500	7500	7500	7500	7500	232500	2691	87	7500	11250
Z RIVER COURSE TO KAC-B	M3	120960									33880							233885	2707	87	7545	74045
Z.RIVER COURSE TO M.G 2[illegible]	M3	17280					10368	10368	10368	10368	8813							183946	2129	69	5934	116381
Z.RIVER COURSE TO M G.2[illegible]	M3	34560									41731							284947	3298	106	9192	208656
Z.RIVER COURSE TO M.G.S.C	M3																	0	0	0	0	0
Z.RIVER COURSE TO W.A S[illegible]	M3																	0	0	0	0	0
Z.RIVER COURSE TO WASTE	M3	3670	67030	12310	12310	12310	2195	2195	2195	74195	25139	106183	113613	155613	27213	12813	12813	1439649	16663	538	46440	707872

MONTH NOVEMBER YEAR 1993

CONTROLED RESOURCES/ DAMS		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
ARAB DAM LEVEL	M	126.66	126.62	126.50	126.32	126.19	126.09	125.91	125.82	125.64	125.67	125.74	125.68	125.57	125.40	125.20	125.02	124.89	124.76
ARAB DAM STORAGE (ROD)	M3	3619000	3637000	3692000	3774000	3834000	3880000	3931000	4005000	4090000	4076000	4013000	4071000	4123000	4203000	4298000	4384000	4447000	4510000
ARAB DAM INFLOW FROM W.ARAB	M3	43950	16610	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250
ARAB DAM INFLOW FROM KAC-R	M3	16300	74390	112220	85770	86510	110110	76090	90290	3360	0	54000	83500	111730	113240	90300	87430	87610	87510
ARAB DAM TOTAL INFLOW	M3	60250	91000	112470	86020	86760	110360	76340	90540	3610	250	54250	83750	111980	113490	90550	87680	87860	87760
ARAB DAM EVAPORATION	M3	500	300	350	1450	2050	1200	3200	900	1200	1250	3250	900	1200	1000	1200	750	600	750
ARAB DAM CAR TO KAC-R	M3												4	0	0	0			
ARAB DAM CAR TO NEG	M3	39200	33200	27570	22020	36160	55610	35790	2080	14340	29400	22400	26250	20000	14890	750	23330	21590	13410
ARAB DAM SEEPAGE	M3	2550	2500	2550	2550	2550	2550	2550	2560	2600	2600	2600	2600	2600	2600	2600	2600	2600	2600
ARAB DAM GATE	M3																		
ARAB DAM OVERFLOW	M3																		
ARAB DAM TOTAL OUTFLOW	M3	42250	36000	30470	26020	40760	59360	39540	5540	18140	33250	26250	31750	23100	18490	4550	26680	24870	18760
DIFFERENCE STORAGE	M3	0	0	0	0	0	0	-37200	0	-530	0	0	10	1110	0	0	-1000	-10	0
W.ARAB COURSE TRIBUTARY	M3	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912
W.ARAB COURSE TO KAC-R	M3	8035	8035	8035	8035	8035	8035	8035	8035	8035	8035	8035	8035	8035	8035	8035	8035	8035	8035
W.ARAB COURSE TO W.R SOI	M3																		
W.ARAB COURSE TO WASTE	M3	1427	1377	1427	1427	1427	1427	1427	1437	1477	1477	1477	1477	1477	1477	1477	1477	1477	1477
ZIGLAR DAM LEVEL	M	115.50	115.58	115.70	115.80	115.70	115.68	115.73	115.77	115.90	115.85	115.81	115.80	115.78	115.75	115.80	115.85	115.92	116.00
ZIGLAR DAM STORAGE (ROD)	M3	2100750	2114870	2136050	2153700	2136050	2132520	2141375	2148405	2171350	2162525	2155465	2153700	2150170	2144875	2153700	2166055	2174880	2189000
ZIG.D INFLOW FROM W.ZIGLAR	M3	26500	26500	26500	26500	26500	26500	26500	24539	22900	22900	22900	22900	22900	22900	22900	22900	22900	26500
ZIG.D INFLOW FROM KAC-R	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ZIGLAR DAM TOTAL INFLOW	M3	26500	26500	26500	26500	26500	26500	26500	24539	22900	22900	22900	22900	22900	22900	22900	22900	22900	26500
ZIGLAR DAM EVAPORATION	M3	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200
ZIGLAR DAM CAR TO KAC-R	M3																		
ZIGLAR DAM CAR TO NEG	M3	10786	3726	7256	42556	24436	16051	17876	0	30131	28366	23071	24836	26601	12481	8951	12481	7186	3101
ZIGLAR DAM SEEPAGE	M3	394	394	394	394	394	394	394	394	394	394	394	394	394	394	394	394	394	394
ZIGLAR DAM GATE	M3																		
ZIGLAR DAM OVERFLOW	M3																		
ZIGLAR DAM TOTAL OUTFLOW	M3	12380	5320	8850	44150	30030	17645	19470	1594	31725	29960	24665	26430	28195	14075	10545	14075	8780	4595
DIFFERENCE STORAGE	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W.ZIGLAR COURSE TRIBUTARY	M3																		
W.ZIGLAR COURSE TO KAC-R	M3																		
W.ZIGLAR COURSE TO W.R SOI	M3																		
W.ZIGLAR COURSE TO WASTE	M3	394	394	394	394	394	394	394	394	394	394	394	394	394	394	394	394	394	394
TALAL DAM LEVEL	M	160.93	161.05	161.12	161.12	161.10	161.09	161.11	161.14	161.10	161.01	160.90	160.88	160.86	160.85	160.81	160.77	160.72	160.66
TALAL DAM STORAGE (ROD)	M3	42967000	43195000	43328000	43328000	43290000	43271000	43309000	43366000	43290000	43119000	42910000	42873000	42834000	42815000	42739000	42663000	42568000	42454000
TALAL.D INFLOW FROM Z.RIVER	M3	639318	535858	382097	321676	313576	296486	317201	281509	236986	195549	327657	326647	265435	244086	285239	266229	247217	207803
TALAL DAM EVAPORATION	M3	16972	8512	10251	8530	10230	15340	17055	15363	13640	10203	11172	13562	15250	12201	10154	10144	10132	10118
TALAL DAM SEEPAGE	M3	5546	5546	5546	5546	5546	5546	5546	5546	5546	5546	5485	5485	5485	5485	5485	5485	5485	5485
TALAL DAM GATE	M3	388800	388800	366300	345600	316800	237600	237600	336600	388800	388800	348300	345600	263700	302400	345600	345600	345600	268200
TALAL DAM OVERFLOW	M3																		
TALAL DAM TOTAL OUTFLOW	M3	411314	402858	382097	359676	332576	258486	260201	357509	407986	404549	365657	364647	284135	320086	361239	361229	361217	283803
DIFFERENCE STORAGE	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Z.RIVER COURSE TRIBUTARY	M3	4320	4320	4320	4320	4320	4320	4320	4320	4320	4320	4320	4320	4320	4320	4320	4320	4320	4320
Z.RIVER COURSE TO KAC-S	M3	118541	128822	172800	190253	172800	103594	75857	18058	161309	178502	172800	150250	155779	94003	139363	150250	172800	172800
Z.RIVER COURSE TO M.G.ZCI	M3	38880	38880	38880	37584	37584	37584	34560	34560	34560	34560	34560	34560	34560	34560	34560	34560	34560	34560
Z.RIVER COURSE TO M.G.ZCII	M3	192240	192240	172900	120960	120960	120960	86400	86400	120960	142560	142560	142560	138240	138240	129600	129600	129600	129600
Z.RIVER COURSE TO M.G.S.C	M3	8640	8640	8640	8640	8640	8640	8640	8640	8640	8640	8640	8640	8640	8640	8640	8640	8640	8640

MONTH NOVEMBER YEAR 1993

UNCONTROLLED RESOURCES	DAY	19	20	21	22	23	24	25	26	27	28	29	30	31	TOTAL M3	TOTAL L/S	AVERAGE L/S	AVERAGE M3/DAY
AREA DAM LEVEL	M	124.61	124.44	124.24	124.06	123.95	123.78	123.63	123.50	123.34	123.16	122.91	122.10		5563000			
AREA DAM STORAGE (BOD)	M3	4583000	4666000	4764000	4853000	4908000	4993000	5068000	5134000	5215000	5307000	5399000	5492000		-1950000	-22569	-753	-65000
AREA DAM INFLOW FROM W.AREA	M3	250	250	250	250	250	250	250	250	250	250	250	250	0	67560	782	26	2252
AREA DAM INFLOW FROM KAC-N	M3	102920	112340	112450	87910	102010	109530	106450	100630	112350	113530	113690	112560	0	2656730	30749	1025	88551
AREA DAM TOTAL INFLOW	M3	103170	112590	112700	88160	102260	109780	106700	100880	112600	113780	113940	112810	0	2724290	31531	1051	90810
AREA DAM EVAPORATION	M3	800	1400	1200	1300	1300	100	600	500	1150	850	1150	800		29980	347	12	999
AREA DAM CAR TO KAC-I	M3														0	0	0	0
AREA DAM CAR TO NEG	M3	16770	10590	15900	29260	33360	31340	37500	16780	16800	18280	17140	32360		698110	8080	269	23270
AREA DAM SEEPAGE	M3	2600	2600	2600	2600	2600	2600	2600	2600	2650	2650	2650	2650		77760	900	30	2592
AREA DAM GATE	M3														0	0	0	0
AREA DAM OVERFLOW	M3														0	0	0	0
AREA DAM TOTAL OUTFLOW	M3	20170	14590	23700	33160	37260	34780	40700	19880	20600	21780	20940	35810	0	805150	9327	311	26842
DIFFERENCE STORAGE	M3	0	0	0	0	0	0	0	0	0	0	0	0		-31560	-365	-12	-1052
W.AREA COURSE TRIBUTARY	M3	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912		207360	2400	80	6912
W.AREA COURSE TO KAC-N	M3	8035	8035	8035	8035	8035	8035	8035	8035	8035	8035	8035	8035		241052	2790	93	8035
W.AREA COURSE TO W.R	M3														0	0	0	0
W.AREA COURSE TO WASTE	M3	1477	1477	1477	1477	1477	1477	1477	1477	1527	1527	1527	1527	0	44068	510	17	1469
ZIGLAB DAM LEVEL	M	116.11	116.22	116.31	116.40	116.31	116.20	116.30	116.05	116.17	116.30	116.42	116.54		2318030			
ZIGLAB DAM STORAGE (BOD)	M3	2230505	2232010	2251560	2267200	2251560	2228100	2202550	2198775	2232235	2247650	2271110	2291570		-117280	-2515	-84	-7243
ZIG.D INFLOW FROM W.ZIGLAB	M3	26500	26500	26500	22900	22900	22900	22900	25054	26309	24354	24354	24354	0	738164	8544	285	24605
ZIG.D INFLOW FROM KAC-N	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ZIGLAB DAM TOTAL INFLOW	M3	26500	26500	26500	22900	22900	22900	22900	25054	26309	24354	24354	24354	0	738164	8544	285	24605
ZIGLAB DAM EVAPORATION	M3	1200	1200	1200	1200	1200	1200	1200	1200	500	500	500	500		33200	384	13	1107
ZIGLAB DAM CAR TO KAC-N	M3														0	0	0	0
ZIGLAB DAM CAR TO NEG	M3	3401	5356	9266	36946	44766	40856	31081	0	0	0	0	0		475864	5508	184	15862
ZIGLAB DAM SEEPAGE	M3	394	394	394	394	394	394	394	394	394	394	394	394		11820	137	5	394
ZIGLAB DAM GATE	M3														0	0	0	0
ZIGLAB DAM OVERFLOW	M3														0	0	0	0
ZIGLAB DAM TOTAL OUTFLOW	M3	1995	6950	10860	38540	46360	42450	32675	1594	894	894	894	894	0	520884	6029	201	17363
DIFFERENCE STORAGE	M3	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0
W.ZIGLAB COURSE TRIBUTARY	M3														0	0	0	0
W.ZIGLAB COURSE TO KAC-N	M3														0	0	0	0
W.ZIGLAB COURSE TO W.R	M3														0	0	0	0
W.ZIGLAB COURSE TO WASTE	M3	394	394	394	394	394	394	394	394	394	394	394	394	0	11820	137	5	394
TALAL DAM LEVEL	M	160.62	160.58	160.53	160.46	160.38	160.30	160.24	160.12	160.05	160.00	159.97	159.91		40920000			
TALAL DAM STORAGE (BOD)	-M3	42378000	42302000	42207000	42074000	41922000	41770000	41656000	41428000	41295000	41200000	41147500	41042500		2047000	23692	790	68233
TALAL.D INFLOW FROM Z.RIVER	M3	194794	181295	174000	188728	203439	291817	209123	278957	260399	304223	240089	233382	0	8451795	97856	3262	281827
TALAL DAM EVAPORATION	M3	10109	11782	10087	10915	11726	11704	8810	7024	4986	5810	4976	4969		322427	3732	124	10748
TALAL DAM SEEPAGE	M3	5485	5313	5313	5313	5313	5313	5313	5313	5313	5313	5313	5313		163268	1890	63	5442
TALAL DAM GATE	M3	259200	259200	291600	324000	338400	388800	423000	399600	345600	345600	334800	345600		10016100	115927	3864	333870
TALAL DAM OVERFLOW	M3														0	0	0	0
TALAL DAM TOTAL OUTFLOW	M3	274794	276295	307000	340028	355439	405817	437123	411937	355899	356723	345089	355882	0	10501795	121549	4052	350060
DIFFERENCE STORAGE	M3	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0
Z.RIVER COURSE TRIBUTARY	M3	4320	4320	4320	4320	4320	4320	4320	4320	4320	4320	4320	4320		129600	1500	50	4320
Z.RIVER COURSE TO KAC-S	M3	172800	94003	113443	118541	118541	80266								3226175	37340	1245	107539
Z.RIVER COURSE TO M.C.ICI	M3	31560	34560	34560	37280	37280	37280	25920	34560	34560	34560	31560	31560		592352	11555	385	33278
Z.RIVER COURSE TO M.C.ICII	M3	129600	129600	129600	146880	146880	146880	146880	146880	155520	155520	155520	155520		4181860	48403	1613	139395
Z.RIVER COURSE TO M.C.S.C	M3	8640	8640	8640	8640	8640	8640	8640	8640	8640	8640	8640	8640		257400	2979	99	8580
Z.RIVER COURSE TO W.R	M3														0	0	0	0
Z.RIVER COURSE TO WASTE	M3	-76595	3030	14990	42292	56692	145367	251193	219153	156513	156513	145713	158313	0	1645181	19041	635	54839

MONTH DECEMBER YEAR 1993

RESOURCES/ DAMS		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
LEVEL	M	122.15	122.55	122.42	122.32	122.22	122.08	121.93	121.88	121.64	121.5	121.34	121.2	121.04	120.90	120.73	120.58	120.42	120.27	120.12
DAM STORAGE (BOD)	M3	5569000	5684000	5689000	5742000	5794000	5868000	5948000	6033000	6103000	6178000	6264000	6340000	6427000	6504000	6597000	6680000	6769000	6852000	6936000
DAM INFLOW FROM W.AREA	M3	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250
DAM INFLOW FROM KAC-N	M3	91325	80438	84586	83808	107395	110765	109037	109123	108259	108173	97718	108259	103853	104544	110419	108864	109728	110074	70502
DAM TOTAL INFLOW	M3	91575	80688	84836	84058	107645	111015	109287	109373	108509	108423	97968	108509	104103	104794	110669	109114	109978	110324	70752
DAM EVAPORATION	M3	1250	1400	1500	1600	1650	1600	737	800	1800	1950	2000	2050	1000	950	750	750	750	100	350
DAM CAR TO KAC-K	M3																			
DAM CAR TO REG	M3	8575	35538	27586	27708	29295	26715	20450	35873	28809	17773	17268	16759	23353	8094	24169	16614	23478	23474	27652
DAM SEEPAGE	M3	2750	2750	2750	2750	2700	2700	2700	2700	2900	2700	2700	2700	2750	2750	2750	2750	2750	2750	2750
DAM GATE	M3																			
DAM OVERFLOW	M3																			
DAM TOTAL OUTFLOW	M3	12575	39688	31836	32058	33645	31015	24287	39373	33509	22423	21968	21509	27103	11794	27669	20114	26978	26324	30752
FFERENCE STORAGE	M3	-0	0	-0	0	0	-0	-0	0	0	-0	0	0	-0	0	0	0	0	-0	0
AREA COURSE TRIBUTARY	M3	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912
AREA COURSE TO KAC-N	M3	8035.2	8035.2	8035.2	8035.2	8035.2	8035.2	8035.2	8035.2	8035.2	8035.2	8035.2	8035.2	8035.2	8035.2	8035.2	8035.2	8035.2	8035.2	8035.2
AREA COURSE TO W.R SOI	M3																			
AREA COURSE TO WASTE	M3	1627	1627	1627	1627	1577	1577	1577	1577	1777	1577	1577	1577	1627	1627	1627	1627	1627	1627	1627
IGLAR DAM LEVEL	M	116.66	116.6	116.58	116.55	116.53	116.5	116.4	116.43	116.33	116.32	116.35	116.37	116.40	116.42	116.45	116.52	116.60	116.65	116.71
IGLAR DAM STORAGE (BOD)	M3	2318030	2306300	2302390	2296252	2292615	2267500	2267200	2273065	2253515	2251560	2257425	2261335	2267200	2271110	2276975	2290660	2306300	2316075	2327305
G.D INFLOW FROM W.IGLAR	M3	24174	24500	24500	24500	24500	24500	24500	24500	21500	24500	24500	24500	24500	24500	26500	26500	26500	26500	26500
G.D INFLOW FROM KAC-N	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IGLAR DAM TOTAL INFLOW	M3	24174	24500	24500	24500	24500	24500	24500	24500	24500	24500	24500	24500	24500	24500	26500	26500	26500	26500	26500
IGLAR DAM EVAPORATION	M3	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
IGLAR DAM CAR TO KAC-N	M3																			
IGLAR DAM CAR TO REG	M3	35010	27516	29744	27243	48721	22906	17741	43156	25561	17741	15694	17741	19696	17741	11921	9966	15831	13876	15831
IGLAR DAM SEEPAGE	M3	394	394	394	394	394	394	394	394	394	394	394	394	394	394	394	394	394	394	394
IGLAR DAM GATE	M3																			
IGLAR DAM OVERFLOW	M3																			
IGLAR DAM TOTAL OUTFLOW	M3	35904	28410	30638	28137	49615	24800	18635	44050	26455	18635	20590	18635	20590	18635	12815	10360	16725	14770	16725
IFFERENCE STORAGE	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IGLAR COURSE TRIBUTARY	M3																			
IGLAR COURSE TO KAC-N	M3																			
IGLAR COURSE TO W.R SOI	M3																			
IGLAR COURSE TO WASTE	M3	394	394	394	394	394	394	394	394	394	394	394	394	394	394	394	394	394	394	394
ALAL DAM LEVEL	M	159.84	159.78	159.72	159.65	159.6	159.53	159.44	159.35	159.26	159.17	159.08	159.01	158.97	158.93	158.89	158.98	159.00	159.00	159.01
ALAL DAM STORAGE (BOD)	M3	40920000	40815000	40710000	40587500	40500000	40377500	40220000	40062500	39905000	39747500	39590000	39467500	39397500	39327500	39257500	39415000	39450000	39450000	39467500
ALAL.D INFLOW FROM 2.RIVER	M3	223045	218765	221616	222998	214477	217642	230429	231293	231293	231293	231293	228442	232416	232416	461203	362189	225936	216000	233539
ALAL DAM EVAPORATION	M3	16500	16500	16500	16500	16500	16500	16500	16500	16500	16500	16500	16500	16500	16500	16500	16500	16500	16500	16500
ALAL DAM SEEPAGE	M3	6818	6818	6818	6818	6818	6818	6818	6818	6818	6818	6818	6818	6818	6818	6818	6818	6818	6818	6818
ALAL DAM GATE	M3	304767	300447	320798	287180	314059	351824	364611	365475	365475	365475	330475	275124	279098	279098	280385	303871	202618	175182	192721
ALAL DAM OVERFLOW	M3																			
ALAL DAM TOTAL OUTFLOW	M3	328045	323765	344116	310498	337377	375142	387929	388793	388793	388793	353793	298442	302416	302416	303703	327189	225936	198500	216039
IFFERENCE STORAGE	M3	-0	-0	0	0	-0	-0	-0	-0	-0	-0	-0	-0	0	0	0	-0	0	0	0
.RIVER COURSE TRIBUTARY	M3	4320	4320	4320	4320	4320	4320	4320	4320	4320	4320	4320	4320	4320	4320	4320	4320	4320	4320	4320
.RIVER COURSE TO KAC-N.	M3	140918	84758	118541	103594	103594	108518	155520	144720	144720	144720	114720	94570	94003	84758	98541	71539	51149	33264	29981
.RIVER COURSE TO M.G.ICI	M3	34560	34560	34560	34560	34560	34560	43200	43200	43200	43200	43560	32560	38880	38880	38880	38880	34560	34560	34560
.RIVER COURSE TO M.G.ICII	M3	129600	129600	129600	129600	129600	129600	129600	151200	155520	155520	146880	138240	138240	138240	138240	138240	108240	98240	128240
.RIVER COURSE TO M.G.S.C	M3	8640	8640	8640	8640	8640	8640	8640	8640	8640	8640	8640	4320	4320	4320	4320	4320	4320	4320	4320
.RIVER COURSE TO W.R SOI	M3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

December 1993

[redacted] / DAM	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
AKAB DAM LEVEL	M	120.05	119.94	119.76	119.60	119.41	119.32	119.20	119.07	118.96	118.90	118.85	118.76	7766000			
AKAB DAM STORAGE (BOD)	M3	6976000	7043000	7139000	7265500	7321000	7390500	7459000	7534000	7597000	7632000	7661000	7713000	-2197000	-25428	-820	-70871
AKAB DAM INFLOW FROM W.AKAB	M3	250	250	250	250	250	250	250	250	250	250	250	250	7750	90	3	250
AKAB DAM INFLOW FROM KAC-N	M3	96854	106445	151200	104803	106013	100224	105408	104803	79488	60566	93485	85795	3111955	36018	1162	100386
AKAB DAM TOTAL INFLOW	M3	97104	106695	151450	105053	106263	100474	105658	105053	79738	60816	93735	86045	3119705	36108	1165	100636
AKAB DAM EVAPORATION	M3	1320	1400	1450	1200	1350	1250	1400	1200	1200	1250	1250	1250	38507	446	14	1242
AKAB DAM CAR TO KAC-N	M3													0	0	0	0
AKAB DAM CAR TO REG	M3	26034	6545	20750	45603	32663	27974	26504	38103	40788	27816	37735	29045	799147	9249	298	25779
AKAB DAM SEEPAGE	M3	2750	2750	2750	2750	2750	2750	2750	2750	2750	2750	2750	2750	85050	984	32	2744
AKAB DAM GATE	M3													0	0	0	0
AKAB DAM OVERFLOW	M3													0	0	0	0
AKAB DAM TOTAL OUTFLOW	M3	30104	10695	24950	49553	36763	31974	30654	42053	44738	31816	41735	33045	922704	10679	344	29765
DIFFERENCE STORAGE	M3	0	-0	0	0	-0	0	0	0	0	0	-0	0	1	0	0	0
W.AKAB COURSE TRIBUTARY	M3	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	6912	214272	2480	80	6912
W.AKAB COURSE TO KAC-N	M3	8035.2	8035.2	8035.2	8035.2	8035.2	8035.2	8035.2	8035.2	8035.2	8035.2	8035.2	8035.2	249091	2883	93	8035
W.AKAB COURSE TO W.R SOI	M3													0	0	0	0
W.AKAB COURSE TO WASTE	M3	1627	1627	1627	1627	1627	1627	1627	1627	1627	1627	1627	1627	50231	581	19	1620
ZIGLAB DAM LEVEL	M	116.76	116.80	116.82	116.82	116.75	116.80	119.88	116.58	116.50	116.52	116.56	116.59	2302390			
ZIGLAB DAM STORAGE (BOD)	M3	2337580	2345400	2349310	2349310	2335625	2345400	2321940	2302390	2286750	2290660	2298480	2304345	15640	141	6	505
ZIG.D INFLOW FROM W.ZIGLAB	M3	26500	26500	26500	24500	24500	24500	24500	24500	24500	24500	24500	24500	775174	8972	289	25006
ZIG.D INFLOW FROM KAC-N	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ZIGLAB DAM TOTAL INFLOW	M3	26500	26500	26500	24500	24500	24500	24500	24500	24500	24500	24500	24500	775174	8972	289	25006
ZIGLAB DAM EVAPORATION	M3	500	500	500	500	500	500	500	500	500	500	500	500	15500	179	6	500
ZIGLAB DAM CAR TO KAC-N	M3													0	0	0	0
ZIGLAB DAM CAR TO REG	M3	17786	21473	25383	37068	13608	46643	42933	39023	19473	15563	17513	25339	760637	8804	284	24537
ZIGLAB DAM SEEPAGE	M3	394	617	617	617	617	617	617	617	617	617	617	617	14667	170	5	473
ZIGLAB DAM GATE	M3													0	0	0	0
ZIGLAB DAM OVERFLOW	M3													0	0	0	0
ZIGLAB DAM TOTAL OUTFLOW	M3	18680	22590	26500	38185	14725	47960	43050	40140	20590	16680	18635	26455	790811	9153	295	25510
DIFFERENCE STORAGE	M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W.ZIGLAB COURSE TRIBUTARY	M3													0	0	0	0
W.ZIGLAB COURSE TO KAC-N	M3													0	0	0	0
W.ZIGLAB COURSE TO W.R SOI	M3													0	0	0	0
W.ZIGLAB COURSE TO WASTE	M3	394	617	617	617	617	617	617	617	617	617	617	617	14667	170	5	473
TALAL DAM LEVEL	M	159.01	159.03	159.03	159.03	159.02	159.00	158.93	158.88	158.83	158.78	158.73	158.68	38795000			
TALAL DAM STORAGE (BOD)	M3	39485000	39502500	39502500	39502500	39485000	39450000	39327500	39240000	39152500	39065000	38917500	38890000	2125000	24711	797	68871
TALAL.D INFLOW FROM Z.RIVER	M3	233539	233280	271728	302400	252461	252115	252461	214877	214877	214877	214877	214877	7539091	87258	2815	243196
TALAL DAM EVAPORATION	M3	16500	16500	16500	16500	16500	16500	16500	16500	16500	16500	16500	16500	511500	5920	191	16500
TALAL DAM SEEPAGE	M3	6818	6818	6818	6818	6818	6818	6818	6818	6818	6818	6818	6818	211358	2446	79	6818
TALAL DAM GATE	M3	192721	209962	248410	296582	264143	351297	316643	279059	279059	339059	219059	296559	8951236	103602	3342	288750
TALAL DAM OVERFLOW	M3													0	0	0	0
TALAL DAM TOTAL OUTFLOW	M3	216039	233280	271728	319900	287461	374615	339961	302377	302377	362377	242377	319877	9674094	111969	3612	312068
DIFFERENCE STORAGE	M3	0	0	0	0	-0	0	-0	-0	-0	-0	-0	-0	-3	-0	-0	-0
Z.RIVER COURSE TRIBUTARY	M3	4320	4320	4320	4320	4320	4320	4320	4320	4320	4320	4320	4320	133920	1550	50	4320
Z.RIVER COURSE TO KAC-S	M3	18058	26836	33264										2000284	23151	747	64525
Z.RIVER COURSE TO M.G.ZCI	M3	34560	34560	34560	34560	34560	34560	34560	34560	34560	34560	34560	34560	1130200	13081	422	36458
Z.RIVER COURSE TO M.G.ZCII	M3	138240	138240	138240	138240	138240	138240	138240	138240	138240	151200	151200	151200	4220000	49074	1583	136774
Z.RIVER COURSE TO M.G.S.C	M3	4320	4320	4320	4320	4320	4320	4320	4320	4320	4320	4320	4320	181440	2100	68	5853
Z.RIVER COURSE TO W.R SOI	M3													0	0	0	0
Z.RIVER COURSE TO WASTE	M3	8681	17146	49164	130600	98167	185115	150661	113077	113077	160117	60117	117617	1741590	20192	651	56277

ARAB DAM LEVEL	M	114.78	114.86	114.96	115.08	115.19	115.31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
ARAB DAM STORAGE (BOD)	M3	10153000	10102000	10037000	9961000	9890000	9814000	9719000	9630000	9530000	9486000	9417000	9351000
ARAB DAM INFLOW FROM W.	M3	250	250	250	250	250	250	250	250	250	250	250	250
ARAB DAM INFLOW FROM KA	M3	27410	22320	0	0	0	0	0	0	0	0	0	0
ARAB DAM TOTAL INFLOW	M3	27660	22570	250	250	250	250	250	250	250	250	250	250
ARAB DAM EVAPORATION	M3	3930	3800	4080	3900	4050	4100	4100	4700	4100	4200	3900	3600
ARAB DAM CAR TO KAC-N	M3												
ARAB DAM CAR TO NEG	M3	70540	79570	68000	63200	68100	87050	81100	91600	36150	61050	55350	54700
ARAB DAM SEEPAGE	M3	4200	4200	4200	4150	4100	4100	4050	4050	4000	4000	4000	3950
ARAB DAM GATE	M3												
ARAB DAM OVERFLOW	M3												
ARAB DAM TOTAL OUTFLOW	M3	78670	87570	76280	71250	76250	95250	89250	100350	44250	69250	63250	62250
DIFFERENCE STORAGE	M3	-10	0	-30	0	0	- 0	0	-100	0	0	0	0
W.ARAB COURSE TRIBUTARY	M3	6480	6480	6480	6480	6480	6480	6480	6480	6480	6480	6480	6480
W.ARAB COURSE TO KAC-N	M3	6732	8784	8069	9504	7488	8064	8280	7064	8064	8064	9504	7920
W.ARAB COURSE TO W.R SO	M3	3636	1584	2304	864	2882	2322	2088	3420	2304	2304	864	2448
W.ARAB COURSE TO WASTE	M3	312	312	307	262	210	194	162	46	112	112	112	62
ZIGLAB DAM LEVEL	M	120.34	120.4	120.47	120.53	120.45	120.38	120.34	3052400	120.35	120.37	120.32	120.28
ZIGLAB DAM STORAGE (BO	M3	3060720	3073200	3087760	3100240	3083600	3069040	3060720	3052400	3062800	3056960	3056560	3048240
ZIG.D INFLOW FROM W.ZIG	M3	26500	26500	26500	24500	24500	24500	24500	24500	24500	24500	24500	24500
ZIG.D INFLOW FROM KAC-N	M3	0	0	0	0	0	0	0	0	0	0	0	0
ZIGLAB DAM TOTAL INFLO	M3	26500	26500	26500	24500	24500	24500	24500	24500	24500	24500	24500	24500
ZIGLAB DAM EVAPORATION	M3	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200
ZIGLAB DAM CAR TO KAC-	M3												
ZIGLAB DAM CAR TO NEG	M3	11691	9611	11691	38811	36731	30491	30491	11771	18011	32571	30491	32571
ZIGLAB DAM SEEPAGE	M3	1129	1129	1129	1129	1129	1129	1129	1129	1129	1129	1129	1129
ZIGLAB DAM GATE	M3												
ZIGLAB DAM OVERFLOW	M3												
ZIGLAB DAM TOTAL OUTFL	M3	14020	11940	14020	41140	39060	32820	32820	14100	20340	34900	32820	31900
DIFFERENCE STORAGE	M3	0	0	0	0	0	0	0	0	0	0	0	0
W.ZIGLAB COUSE TRIBUTAR	M3												
W.ZIGLAB COUSE TO KAC-N	M3												
W.ZIGLAB COUSE TO W.R S	M3												
W.ZIGLAB COUSE TO WASTE	M3	1129	1129	1129	1129	1129	1129	1129	1129	1129	1129	1129	1129
TALAL DAM LEVEL	M	170.08	170.02	169.96	169.89	169.82	169.75	169.69	169.61	169.54	169.47	169.4	169.33
TALAL DAM STORAGE (BOD)	M3	62091300	61962900	61834800	61685700	61536600	61387500	61238400	61089300	60940200	60791100	60642000	60492900
TALAL.D INFLOW FROM Z.R	M3	209264	210621	188394	188330	188266	190375	185971	188075	185854	181489	183458	188890
TALAL DAM EVAPORATION	M3	28522	29579	28134	28370	28306	30415	26011	28115	25894	21529	23628	27860
TALAL DAM SEEPAGE	M3	6742	6742	6660	6660	6660	6660	6660	6660	6660	6660	6530	6530
TALAL DAM GATE	M3	302400	302400	302400	302400	302400	302400	302400	302400	302400	302400	302400	388800
TALAL DAM OVERFLOW	M3												
TALAL DAM TOTAL OUTFLOW	M3	337664	338721	337494	337430	337366	339475	335071	337175	331954	330589	332558	423190
DIFFERENCE STORAGE	M3	0	0	0	0	0	0	0	0	0	0	0	0
Z.RIVER COURSE TRIBUTAR	M3	4320	1320	1320	1320	1320	1320	1320	4320	4320	4320	1320	1320
Z.RIVER COURSE TO KAC-S	M3	94003	94003	94003	94003	94003	94003	94003	94003	94003	94003	94003	94003
Z.RIVER COURSE TO M.G.Z	M3	30240	30240	30240	30240	30240	30240	30240	30240	30240	30240	30240	30240
Z.RIVER COURSE TO M.G.Z	M3	120960	120960	120960	120960	120960	120960	120960	120960	120960	120960	120960	120960
Z.RIVER COURSE TO M.G.S	M3	8640	8640	8640	8640	8640	8640	8640	8640	8640	8640	8640	8640
Z.RIVER COURSE TO W.R S	M3												
Z.RIVER COURSE TO WASTE	M3	59619	59619	59537	59537	59537	59537	59537	59537	59537	59537	59407	145807

CONTROLED RESOURCES/ DADAY		13	14	15	16	17	18	19	20	21	22	23	21
ARAB DAM LEVEL	M	116.14	116.24	116.32	116.42	116.51	116.61	116.70	116.80	116.88	116.95	117.02	117.12
ARAB DAM STORAGE (BOD)	M3	9292000	9230000	9180000	9118000	9063000	9001000	8946000	8884000	8835000	8793000	8750000	8689000
ARAB DAM INFLOW FROM W.	M3	250	250	250	250	250	250	250	250	250	250	250	250
ARAB DAM INFLOW FROM KA	M3	0	0	0	0	0	0	0	0	0	0	0	0
ARAB DAM TOTAL INFLOW	M3	250	250	250	250	250	250	250	250	250	250	250	250
ARAB DAM EVAPORATION	M3	3450	3500	3600	4260	4400	4330	4320	3650	3300	3400	4200	3600
ARAB DAM CAR TO KAC-N	M3												
ARAB DAM CAR TO NEG	M3	54900	42850	54800	47140	45050	47120	51180	41850	35200	36100	53440	53950
ARAB DAM SEEPAGE	M3	3900	3900	3850	3850	3800	3800	3800	3750	3750	3750	3700	3700
ARAB DAM GATE	M3												
ARAB DAM OVERFLOW	M3												
ARAB DAM TOTAL OUTFLOW	M3	62250	50250	62250	55250	53250	55250	62300	49250	42250	43250	61340	61250
DIFFERENCE STORAGE	M3	0	0	0	0	9000	- 0	-50	0	0	0	-90	0
W.ARAB COURSE TRIBUTARY	M3	6480	6480	6480	6480	6400	6400	6400	6400	6400	6400	6400	6400
W.ARAB COURSE TO KAC-N	M3	8046	8280	6732	6732	8064	9504	7488	8046	-8280	6732	7920	8064
W.ARAB COURSE TO W.R	M3	2232	2088	3598	2736	2136	696	2712	2104	1870	3418	2180	2036
W.ARAB COURSE TO WASTE	M3	102	12	0	862	0	0	0	0	0	0	0	0
ZIGLAB DAM LEVEL	M	120.23	120.19	120.16	120.19	120.21	120.20	120.18	12.15	120.13	120.10	120.05	120.02
ZIGLAB DAM STORAGE (BO	M3	3037840	3029520	3023280	3029520	3033680	3031600	3027440	3021200	3017040	3010800	3000400	2994160
ZIG.D INFLOW FROM W.ZIG	M3	24500	24500	26500	26500	26500	24500	26500	24500	24500	24500	24500	26500
ZIG.D INFLOW FROM KAC-N	M3	0	0	0	0	0	0	0	0	0	0	0	0
ZIGLAB DAM TOTAL INFLO	M3	24500	24500	26500	26500	26500	24500	26500	24500	24500	24500	24500	26500
ZIGLAB DAM EVAPORATION	M3	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200
ZIGLAB DAM CAR TO KAC-	M3												
ZIGLAB DAM CAR TO NEG	M3	30491	28411	17931	20011	26251	26331	30411	26331	28411	32571	28111	28331
ZIGLAB DAM SEEPAGE	M3	1129	1129	1129	1129	1129	1129	1129	1129	1129	1129	1129	1129
ZIGLAB DAM GATE	M3												
ZIGLAB DAM OVERFLOW	M3												
ZIGLAB DAM TOTAL OUTFL	M3	32820	30740	20260	22340	28580	26660	32740	28660	30740	34900	30710	30660
DIFFERENCE STORAGE	M3	0	0	0	0	0	0	0	0	0	0	0	0
W.ZIGLAB COUSE TRIBUTAR	M3												
W.ZIGLAB COUSE TO KAC-N	M3												
W.ZIGLAB COUSE TO W.R	M3												
W.ZIGLAB COUSE TO WASTE	M3	1129	1129	1129	1129	1129	1129	1129	1129	1129	1129	1129	1129
TALAL DAM LEVEL	M	169.22	169.11	169.04	168.97	168.90	168.83	168.74	168.61	168.54	168.45	168.38	168.30
TALAL DAM STORAGE (BOD)	M3	60259600	60024300	59875200	59726100	59577000	59427900	59236200	59023200	58810200	58618500	58469400	58299000
TALAL.D INFLOW FROM Z.R	M3	189790	187481	187126	187367	187244	142180	151272	187965	228707	185093	181946	184935
TALAL DAM EVAPORATION	M3	27760	27651	27596	27537	27482	25318	25260	27303	25145	27131	21986	25975
TALAL DAM SEEPAGE	M3	6530	6530	6530	6530	6162	6462	6162	6162	6162	6162	6360	6360
TALAL DAM GATE	M3	388800	302400	302400	302400	302400	302100	332550	367200	388800	300600	321000	324000
TALAL DAM OVERFLOW	M3												
TALAL DAM TOTAL OUTFLOW	M3	123690	336581	336526	336467	336411	331180	361272	400965	420407	331193	355316	356335
DIFFERENCE STORAGE	M3	0	0	0	0	0	0	0	0	0	0	0	0
Z.RIVER COURSE TRIBUTAR	M3	1320	1320	1320	1320	1320	4320	4320	1320	1320	4320	1320	4320
Z.RIVER COURSE TO KAC-S	M3	123552	128518	81758	81758	81758	84758	89337	91003	208397	94003	71539	75859
Z.RIVER COURSE TO M.G.Z	M3	38880	36288	31992	31992	31992	31992	31952	38880	38880	38880	33696	34560
Z.RIVER COURSE TO M.G.Z	M3	136911	136911	136911	136911	136911	136911	137030	153680	93665	115150	138240	138240
Z.RIVER COURSE TO M.G.S	M3	8610	8610	8610	8610	8610	8610	8610	8610	8610	8640	8640	8640
Z.RIVER COURSE TO W.R	M3												
Z.RIVER COURSE TO WASTE	M3	91631	2860	17916	17916	17818	47818	73373	82779	50000	21709	82565	77381

CONTROLED RESOURCES/ DADAY		25	26	27	28	29	30	31	TOTAL M3	TOTAL L/S	AVERAGE L/S	AVERAGE M3/DAY
ARAB DAM LEVEL	M	117.22	117.39	117.55	117.67	117.77	117.88	118.00				
ARAB DAM STORAGE (BOD)	M3	8628000	8525000	8429000	8357000	8297000	8232000	8160000	8060000			
ARAB DAM INFLOW FROM W.	M3	250	250	250	250	250	250	250	2093000	24225	781	67516
ARAB DAM INFLOW FROM KA	M3	0	0	0	0	0	0	0	7750	90	3	250
ARAB DAM TOTAL INFLOW	M3	250	250	250	250	250	250	250	49730	576	19	1604
ARAB DAM EVAPORATION	M3	3400	3400	4100	3200	3290	3160	3430	57480	665	21	1854
ARAB DAM CAR TO KAC-N	M3	15930	18300	18350	1020	0	9860	33720	118450	1371	44	3821
ARAB DAM CAR TO NEG	M3	80220	70850	46150	52380	58310	55630	59500	97180	1125	36	3135
ARAB DAM SEEPAGE	M3	3700	3700	3650	3650	3650	3600	3600	1806030	20903	674	58259
ARAB DAM GATE	M3								120100	1390	45	3874
ARAB DAM OVERFLOW	M3								0	0	0	0
ARAB DAM TOTAL OUTFLOW	M3	103250	96250	72250	60250	65250	72250	100250	0	0	0	0
DIFFERENCE STORAGE	M3	0	0	0	0	0	0	0	2141760	21789	800	69089
W.ARAB COURSE TRIBUTARY	M3	6400	6400	6400	6400	6400	6400	6400	8720	101	3	281
W.ARAB COURSE TO KAC-N	M3	8928	7776	8046	8280	6732	7704	8064	199680	2311	75	6441
W.ARAB COURSE TO W.R	M3	1172	2324	2004	1770	3318	2296	1936	246955	2858	92	7966
W.ARAB COURSE TO WASTE	M3	0	0	0	0	0	0	0	69646	806	26	2247
									3179	37	1	103
ZIGLAB DAM LEVEL	M	120.00	120.03	120.05	120.03	120.02	120.00	119.98				
ZIGLAB DAM STORAGE (BO	M3	2990000	2996240	3000400	2996240	2994160	2990000	2985900	2979750			
ZIG.D INFLOW FROM W.ZIG	M3	26500	24500	26500	26500	26500	26500	26500	80970	937	30	2612
ZIG.D INFLOW FROM KAC-N	M3	0	0	0	0	0	0	0	787500	9115	294	25403
ZIGLAB DAM TOTAL INFLO	M3	26500	24500	26500	26500	26500	26500	26500	0	0	0	0
ZIGLAB DAM EVAPORATION	M3	1200	1200	1200	1200	1200	1200	1200	787500	9115	294	25403
ZIGLAB DAM CAR TO KAC-	M3								37200	431	14	1200
ZIGLAB DAM CAR TO NEG	M3	17931	18011	28331	26251	28331	28271	30321	0	0	0	0
ZIGLAB DAM SEEPAGE	M3	1129	1129	1129	1129	1129	1129	1129	796271	9216	297	25686
ZIGLAB DAM GATE	M3								34999	405	13	1129
ZIGLAB DAM OVERFLOW	M3								0	0	0	0
ZIGLAB DAM TOTAL OUTFL	M3	20260	20340	30660	28580	30660	30600	32650	0	0	0	0
DIFFERENCE STORAGE	M3	0	0	0	0	0	0	0	868470	10052	324	28015
W.ZIGLAB COUSE TRIBUTAR	M3								0	0	0	0
W.ZIGLAB COUSE TO KAC-N	M3								0	0	0	0
.ZIGLAB COUSE TO W.R	M3								0	0	0	0
W.ZIGLAB COUSE TO WASTE	M3	1129	1129	1129	1129	1129	1129	1129	0	0	0	0
									34999	405	13	1129
TALAL DAM LEVEL	M	168.22	168.14	168.06	167.98	167.91	167.84	167.75				
TALAL DAM STORAGE (BOD)	M3	58127600	57958200	57787800	57617600	57169200	57320800	57130000	56896800			
TALAL.D INFLOW FROM Z.R	M3	187912	186849	186987	208730	187093	144594	183391	5194500	60122	1939	167565
TALAL DAM EVAPORATION	M3	26952	26889	26827	26770	26733	26697	28694	5778249	66878	2157	186395
TALAL DAM SEEPAGE	M3	6360	6360	6360	6360	6360	6297	6297	835369	9669	312	26947
TALAL DAM GATE	M3	324000	324000	324000	324000	302400	302400	381600	201830	2336	75	6511
TALAL DAM OVERFLOW	M3								9935550	111995	3710	320502
TALAL DAM TOTAL OUTFLOW	M3	357312	357249	357187	357130	335493	335394	416591	0	0	0	0
DIFFERENCE STORAGE	M3	0	0	0	0	0	0	0	10972749	126999	1097	353960
Z.RIVER COURSE TRIBUTAR	M3	4320	4320	4320	4320	4320	4320	4320	0	0	0	0
Z.RIVER COURSE TO KAC-S	M3	89338	84758	84758	84758	84758	84758	112320	133920	1550	50	1320
Z.RIVER COURSE TO M.G.Z	M3	34560	36288	36288	37757	37757	37757	38961	2977724	34461	1112	96056
Z.RIVER COURSE TO M.G.Z	M3	138240	138240	138240	116880	159810	159810	119901	1057232	12236	395	34104
Z.RIVER COURSE TO M.G.S	M3	8640	8640	8640	8640	8640	8640	8640	4110373	47571	1535	132593
Z.RIVER COURSE TO W.R	M3								267840	3100	100	8640
Z.RIVER COURSE TO WASTE	M3	63902	66754	66754	56615	22085	22022	82392	0	0	0	0
									1858131	21506	694	59940

MONTH SEPTEMBER YEAR 1993

CONTROLED RESOURCES/ DAMDAY		1	2	3	4	5	6	7	8	9	10	11	12
ARAB DAM LEVEL	M	118.17	118.38	118.58	118.76	118.92	119.09	119.18	119.28	119.38	119.62	119.79	119.89
ARAB DAM STORAGE (BOD)	M3	8060000	7936000	7818000	7713000	7620000	7522000	7470000	7413000	7355000	7219000	7122000	7088000
ARAB DAM INFLOW FROM W.A	M3	250	250	250	250	250	250	250	250	250	250	250	250
ARAB DAM INFLOW FROM KAC	M3	0	0	0	0	0	0	0	0	0	0	0	0
ARAB DAM TOTAL INFLOW	M3	250	250	250	250	250	250	250	250	250	250	250	250
ARAB DAM EVAPORATION	M3	3400	3250	2410	2410	2510	3580	3320	3300	3320	3400	3400	3900
ARAB DAM CAR TO KAC-N	M3	42010	43700	35780	29620	27790	26480	24890	24880	25330	24780	2510	0
ARAB DAM CAR TO NEG	M3	75240	67750	63510	57680	64400	18640	25490	26520	104050	65520	24790	31800
ARAB DAM SEEPAGE	M3	3600	3550	3550	3550	3550	3550	3550	3550	3550	3550	3550	3550
ARAB DAM GATE	M3												
ARAB DAM OVERFLOW	M3												
ARAB DAM TOTAL OUTFLOW	M3	124250	118250	105250	93260	98250	52260	57250	58250	136250	97250	34250	39250
DIFFERENCE STORAGE	M3	0	0	0	-10	0	0	0	0	0	0	0	0
W.ARAB COURSE TRIBUTARY	M3												
W.ARAB COURSE TO KAC-N	M3												
W.ARAB COURSE TO W.R SO1	M3	540	2737	2327	2088	3536	2880	2304	648	3168	2278	1764	3536
W.ARAB COURSE TO WASTE	M3	3060	813	1223	1462	14	670	1246	2902	382	1272	1786	14
ZIGLAB DAM LEVEL	M	119.95	119.93	119.90	119.88	119.85	119.95	120.06	120.14	120.07	120.07	119.95	119.88
ZIGLAB DAM STORAGE (BOD	M3	2979750	2975650	2969500	2965400	2959250	2979750	2998320	3019120	3004560	2994160	2979750	2965400
ZIG.D INFLOW FROM W.ZIGL	M3	26500	26500	26500	26500	26500	26500	26500	26500	26500	26500	26500	26500
ZIG.D INFLOW FROM KAC-N	M3	0	0	0	0	0	0	0	0	0	0	0	0
ZIGLAB DAM TOTAL INFLOW	M3	26500	26500	26500	26500	26500	26500	26500	26500	26500	26500	26500	26500
ZIGLAB DAM EVAPORATION	M3	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200
ZIGLAB DAM CAR TO KAC-N	M3												
ZIGLAB DAM CAR TO NEG	M3	28271	30321	28271	30321	3671	5601	3371	38731	34571	38581	38521	30321
ZIGLAB DAM SEEPAGE	M3	1129	1129	1129	1129	1129	1129	1129	1129	1129	1129	1129	1129
ZIGLAB DAM GATE	M3												
ZIGLAB DAM OVERFLOW	M3												
ZIGLAB DAM TOTAL OUTFLO	M3	30600	32650	30600	32650	6000	7930	5700	41060	36900	40910	40850	32650
DIFFERENCE STORAGE	M3	0	0	0	0	0	0	0	0	0	0	0	0
W.ZIGLAB COUSE TRIBUTARY	M3												
W.ZIGLAB COUSE TO KAC-N	M3												
W.ZIGLAB COUSE TO W.R SO	M3												
W.ZIGLAB COUSE TO WASTE	M3	1129	1129	1129	1129	1129	1129	1129	1129	1129	1129	1129	1129
TALAL DAM LEVEL	M	167.63	167.52	167.42	167.30	167.24	167.15	167.06	166.97	166.68	166.90	166.81	166.72
TALAL DAM STORAGE (BOD)	M3	56896800	56642400	56430400	56239600	56048800	55858000	55667200	55476400	55497600	55328000	55137200	54946400
TALAL.D INFLOW FROM Z.RI	M3	163194	182387	185539	187477	183371	181305	179247	182627	180833	183661	185083	212309
TALAL DAM EVAPORATION	M3	22497	24490	24442	26432	22326	20260	18202	20182	20188	22616	24103	18029
TALAL DAM SEEPAGE	M3	6297	6297	6297	6245	6245	6245	6245	6245	6245	6245	6180	6180
TALAL DAM GATE	M3	388800	363600	345600	345600	345600	345600	345600	135000	324000	345600	345600	378900
TALAL DAM OVERFLOW	M3												
TALAL DAM TOTAL OUTFLOW	M3	417594	394387	376339	378277	374171	372105	370047	161427	350433	374461	375883	403109
DIFFERENCE STORAGE	M3	0	0	0	0	0	0	0	0	0	0	0	0
Z.RIVER COURSE TRIBUTARY	M3	4320	4320	4320	4320	4320	4320	4320	4320	4320	4320	4320	4320
Z.RIVER COURSE TO KAC-S	M3	144720	94003	113143	108518	108518	103359	94003	26784	511488	103594	103594	103594
Z.RIVER COURSE TO M.G.ZC	M3	44496	36288	36288	36288	36288	39744	39744	39744	33696	38880	38880	38880
Z.RIVER COURSE TO M.G.ZC	M3	146880	147917	147917	147917	147917	156125	148176	135389	133056	151200	151200	151200
Z.RIVER COURSE TO M.G.S.	M3	8640	8640	8640	8640	8640	8640	8640	8640	8640	10368	10368	12960
Z.RIVER COURSE TO W.R SO	M3												
Z.RIVER COURSE TO WASTE	M3	54681	87369	49929	54802	54802	48297	65607	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

MONTH SEPTEMBER YEAR 1993

CONTROLED RESOURCES/ DAMDAY		13	14	15	16	17	18	19	20	21	22	23	24
ARAB DAM LEVEL	M	119.92	120.04	120.15	120.30	120.47	120.55	120.70	120.78	120.90	121.20	121.39	121.50
ARAB DAM STORAGE (EOD)	M3	7049000	6981000	6919000	6836000	6741000	6697000	6614000	6570000	6504000	6340000	6237000	6187000
ARAB DAM INFLOW FROM W.A	M3	250	250	250	250	250	250	250	250	250	250	250	250
ARAB DAM INFLOW FROM KAC	M3	0	0	0	0	0	0	0	0	0	0	0	0
ARAB DAM TOTAL INFLOW	M3	250	250	250	250	250	250	250	250	250	250	250	250
ARAB DAM EVAPORATION	M3	3880	2350	3100	3690	3430	3990	4180	3100	3470	2980	3350	2900
ARAB DAM CAR TO KAC-N	M3	0	0	0	27680	8920	0	0	39390	52690	30640	3610	0
ARAB DAM CAR TO NEG	M3	60870	56100	76650	60390	28450	75810	36680	20060	104740	66280	39190	51850
ARAB DAM SEEPAGE	M3	3500	3500	3500	3500	3450	3450	3400	3400	3350	3350	3300	3300
ARAB DAM GATE	M3												
ARAB DAM OVERFLOW	M3												
ARAB DAM TOTAL OUTFLOW	M3	68250	62250	83250	95260	41250	83250	44260	66250	164250	103250	49450	58350
DIFFERENCE STORAGE	M3	0	0	0	-10	0	0	-10	0	0	0	0	0
W.ARAB COURSE TRIBUTARY	M3												
.ARAB COURSE TO KAC-N	M3												
W.ARAB COURSE TO W.R	M3	2448	2304	864	2880	2304	2088	3400	2520	2304	1080	2880	2898
W.ARAB COURSE TO WASTE	M3	1052	1196	2636	620	1146	1362	0	880	1046	2270	420	402
ZIGLAB DAM LEVEL	M	119.85	119.82	119.80	119.75	119.72	119.70	119.68	119.63	119.59	119.55	119.50	119.55
ZIGLAB DAM STORAGE (BOD	M3	2959250	2953100	2949000	2938750	2932600	2928500	2924100	2914150	2905950	2897750	2887500	2897750
ZIG.D INFLOW FROM W.ZIGL	M3	26500	26500	26500	26500	26500	26500	26500	26500	26500	26500	26500	26500
ZIG.D INFLOW FROM KAC-N	M3	0	0	0	0	0	0	0	0	0	0	0	0
ZIGLAB DAM TOTAL INFLOW	M3	26500	26500	26500	26500	26500	26500	26500	26500	26500	26500	26500	26500
ZIGLAB DAM EVAPORATION	M3	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200
ZIGLAB DAM CAR TO KAC-N	M3												
ZIGLAB DAM CAR TO NEG	M3	30321	28271	34421	30321	28271	28271	31121	32371	32371	34421	13921	20071
ZIGLAB DAM SEEPAGE	M3	1129	1129	1129	1129	1129	1129	1129	1129	1129	1129	1129	1129
ZIGLAB DAM GATE	M3												
ZIGLAB DAM OVERFLOW	M3												
ZIGLAB DAM TOTAL OUTFLO	M3	32650	30600	36750	32650	30600	30600	36750	34700	34700	36750	16250	22400
DIFFERENCE STORAGE	M3	0	0	0	0	0	0	0	0	0	0	0	0
W.ZIGLAB COUSE TRIBUTARY	M3												
W.ZIGLAB COUSE TO KAC-N	M3												
.ZIGLAB COUSE TO W.R	M3												
W.ZIGLAB COUSE TO WASTE	M3	1129	1129	1129	1129	1129	1129	1129	1129	1129	1129	1129	1129
TALAL DAM LEVEL	M	166.61	166.48	166.33	166.21	166.14	166.03	165.92	165.80	165.67	165.52	165.41	165.30
TALAL DAM STORAGE (BOD)	M3	54755600	54437600	54119600	53928800	53716800	53483600	53251200	52998000	52723700	52407200	52175100	51943000
TALAL.D INFLOW FROM Z.RI	M3	178156	183268	182758	184566	181306	181059	197102	181254	176811	192852	181855	181789
TALAL DAM EVAPORATION	M3	21976	19888	21778	19744	19684	18637	19480	17532	19402	21243	19246	19180
TALAL DAM SEEPAGE	M3	6180	6180	6180	6022	6022	6022	6022	6022	5909	5909	5909	5909
TALAL DAM GATE	M3	468000	475200	345600	370800	388800	388800	424800	432000	468000	397800	388800	388800
TALAL DAM OVERFLOW	M3												
TALAL DAM TOTAL OUTFLOW	M3	496156	501268	373558	396566	414506	413459	450302	455554	493311	421952	413955	413889
DIFFERENCE STORAGE	M3	0	0	0	0	0	0	0	0	0	0	0	0
Z.RIVER COURSE TRIBUTARY	M3	4320	4320	4320	4320	4320	4320	4320	4320	4320	4320	4320	4320
Z.RIVER COURSE TO KAC-S	M3	118541	190253	128822	71539	94003	123638	108518	134093	150250	155779	177120	113443
Z.RIVER COURSE TO M.G.ZC	M3	38880	38880	38880	38880	38880	38880	38880	38880	38880	43200	38880	38880
Z.RIVER COURSE TO M.G.ZC	M3	151200	172800	172800	172800	177120	177120	177120	177120	177120	181440	177120	177120
Z.RIVER COURSE TO M.G.S.	M3	12960	12960	8640	8640	8640	8640	8640	12960	12960	8640	8640	10368
Z.RIVER COURSE TO W.R	M3												
Z.RIVER COURSE TO WASTE	M3	156919	70807	6958	89283	80499	50864	101984	79289	99019	18970	-2731	59218

MONTH SEPTEMBER YEAR 1993

CONTROLED RESOURCES/ DAMDAY		25	26	27	28	29	30	1	TOTAL M3	TOTAL L/S	AVERAGE L/S	AVERAGE M3/DAY
ARAB DAM LEVEL	M	121.59	121.78	121.87	121.91	122.00	122.08		5816000			
ARAB DAM STORAGE (BOD)	M3	6130000	6028000	5980000	5913000	5911000	5868000	5816000	2214000	25972	866	74800
ARAB DAM INFLOW FROM W.A	M3	250	250	250	250	250	250	0	7500	87	3	250
ARAB DAM INFLOW FROM KAC	M3	0	0	0	0	0	0	0	0	0	0	0
ARAB DAM TOTAL INFLOW	M3	250	250	250	250	250	250	0	7500	87	3	250
ARAB DAM EVAPORATION	M3	3300	3100	2170	2200	2190	2190		91370	1092	36	3146
ARAB DAM CAR TO KAC-N	M3	0	0	0	0	0	23410		493146	5708	190	16438
ARAB DAM CAR TO NEG	M3	95650	41850	31530	26800	37860	21130		1560880	18066	602	52029
ARAB DAM SEEPAGE	M3	3300	3300	3250	3250	3200	3200		103150	1194	40	3438
ARAB DAM GATE	M3								0	0	0	0
ARAB DAM OVERFLOW	M3								0	0	0	0
ARAB DAM TOTAL OUTFLOW	M3	102250	48250	37250	32250	13250	52260	0	2251510	26059	869	75051
DIFFERENCE STORAGE	M3	0	0	0	0	0	-10	0	-40	-0	-0	-1
W.ARAB COURSE TRIBUTARY	M3								0	0	0	0
.ARAB COURSE TO KAC-N	M3								0	0	0	0
W.ARAB COURSE TO W.R	M3	2088	3300	2232	2304	2728	2880		71308	825	28	2377
W.ARAB COURSE TO WASTE	M3	1212	0	1018	946	472	320	0	31812	369	12	1061
ZIGLAB DAM LEVEL	M	119.57	119.53	119.48	119.38	119.28	119.25		2799350			
ZIGLAB DAM STORAGE (BOD	M3	2901850	2893650	2883400	2862900	2848400	2815750	2799350	180400	2088	70	6013
ZIG.D INFLOW FROM W.ZIGL	M3	26500	26500	26500	26500	26500	26500	0	795000	9201	307	26500
ZIG.D INFLOW FROM KAC-N	M3	0	0	0	0	0	0	0	0	0	0	0
ZIGLAB DAM TOTAL INFLOW	M3	26500	26500	26500	26500	26500	26500	0	795000	9201	307	26500
ZIGLAB DAM EVAPORATION	M3	1200	1200	1200	1200	1200	1200		36000	417	14	1200
ZIGLAB DAM CAR TO KAC-N	M3								0	0	0	0
ZIGLAB DAM CAR TO NEG	M3	32371	34421	41671	38671	56821	10571		905530	10181	349	30184
ZIGLAB DAM SEEPAGE	M3	1129	1129	1129	1129	1129	1129		33870	392	13	1129
ZIGLAB DAM GATE	M3								0	0	0	0
ZIGLAB DAM OVERFLOW	M3								0	0	0	0
ZIGLAB DAM TOTAL OUTFLO	M3	34700	36750	47000	41000	59150	42900	0	975400	11289	376	32513
DIFFERENCE STORAGE	M3	0	0	0	0	0	0	0	0	0	0	0
W.ZIGLAB COUSE TRIBUTARY	M3								0	0	0	0
W.ZIGLAB COUSE TO KAC-N	M3								0	0	0	0
W.ZIGLAB COUSE TO W.R	M3								0	0	0	0
W.ZIGLAB COUSE TO WASTE	M3	1129	1129	1129	1129	1129	1129	0	33870	392	13	1129
TALAL DAM LEVEL	M	165.19	165.08	164.97	164.86	164.75	164.60		50191700			
TALAL DAM STORAGE (BOD)	M3	51710900	51478800	51246700	51014600	50782500	50466000	50191700	6705100	77605	2587	223503
TALAL.D INFLOW FROM Z.RI	M3	180200	179752	180149	187310	182044	173780	0	5493044	63577	2119	183101
TALAL DAM EVAPORATION	M3	17591	17143	17089	17050	16984	16920		604334	6995	233	20144
TALAL DAM SEEPAGE	M3	5909	5909	6360	6360	6360	6360		184510	2136	71	6150
TALAL DAM GATE	M3	388800	388800	388800	396000	475200	424800		11409300	132052	4402	380310
TALAL DAM OVERFLOW	M3								0	0	0	0
TALAL DAM TOTAL OUTFLOW	M3	412300	411852	412249	419110	498541	448080	0	12198144	141182	4706	406605
DIFFERENCE STORAGE	M3	0	0	0	0	0	0	0	0	0	0	0
Z.RIVER COURSE TRIBUTARY	M3	4320	4320	4320	4320	4320	4320		129600	1500	50	4320
Z.RIVER COURSE TO KAC-S	M3	113443	108518	113443	128822	123638	118541		3888022	45000	1500	129601
Z.RIVER COURSE TO N.G.ZC	M3	38880	38880	38880	38880	38880	38880		1163376	13465	419	38779
Z.RIVER COURSE TO N.G.ZC	M3	177120	177120	177120	177120	177120	175392		4916766	56907	1897	163892
Z.RIVER COURSE TO N.G.S.	M3	10368	10368	10368	10368	10368	8640		294624	3410	114	9821
Z.RIVER COURSE TO W.R	M3								0	0	0	0
Z.RIVER COURSE TO WASTE	M3	59218	64113	59669	51490	135874	94027	0	1460622	16905	564	48687

MONTH OCTOBER YEAR 1993

LED RESOURCES/DAMDAY		1	2	3	4	5	6	7	8	9	10	11	12
DAM LEVEL	M	122.18	122.30	122.42	122.54	122.68	122.83	123.00	123.17	123.35	123.42	123.52	123.61
DAM STORAGE (BOD)	M3	5816000	5752000	5689000	5627000	5554000	5476000	5389000	5301000	5235000	5174000	5124000	5078000
DAM INFLOW FROM W.	M3	250	250	250	250	250	250	250	250	250	250	250	250
DAM INFLOW FROM KA	M3	0	0	0	0	0	0	0	0	0	0	0	0
DAM TOTAL INFLOW	M3	250	250	250	250	250	250	250	250	250	250	250	250
DAM EVAPORATION	M3	1815	1810	2524	1436	1610	1600	1650	1763	1757	1751	2000	1857
DAM CAR TO KAC-N	M3	0	14700	18140	18020	34100	25690	26380	14850	14850	2670	0	0
DAM CAR TO NEG	M3	53655	43590	38436	50694	39440	56900	57220	35087	41143	42829	41250	29393
DAM SEEPAGE	M3	3150	3150	3150	3300	3100	3060	3000	3000	3000	3000	3000	3000
DAM GATE	M3												
DAM OVERFLOW	M3												
DAM TOTAL OUTFLOW	M3	58620	63250	62250	73450	78250	87250	88250	54700	60750	50250	46250	34250
DIFFERENCE STORAGE	M3	5630	0	0	-200	0	0	0	11550	500	0	0	1000
W.ARAB COURSE TRIBUTARY	M3												
W.ARAB COURSE TO KAC-N	M3												
W.ARAB COURSE TO W.R SO	M3												
W.ARAB COURSE TO WASTE	M3	3150	3150	3150	3300	3100	3060	3000	3000	3000	3000	3000	3000
ZIGLAB DAM LEVEL	M	119.07	119.00	118.92	118.90	118.87	118.83	118.75	118.65	118.55	118.44	118.35	118.33
ZIGLAB DAM STORAGE (BO	M3	2799350	2785000	2768600	2764500	2756300	2744000	2733750	2711200	2692750	2670200	2651750	2647650
ZIG.D INFLOW FROM W.ZIG	M3	26500	26500	26500	26500	26500	26500	26500	26500	26500	26500	26500	26500
ZIG.D INFLOW FROM KAC-N	M3	0	0	0	0	0	0	0	0	0	0	0	0
ZIGLAB DAM TOTAL INFLO	M3	26500	26500	26500	26500	26500	26500	26500	26500	26500	26500	26500	26500
ZIGLAB DAM EVAPORATION	M3	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200
ZIGLAB DAM CAR TO KAC-	M3	0	0										
ZIGLAB DAM CAR TO NEG	M3	38521	40571	26271	32371	36470	34421	42827	37258	41358	43133	28783	32883
ZIGLAB DAM SEEPAGE	M3	1129	1129	1129	1129	1129	1129	617	617	617	617	617	617
ZIGLAB DAM GATE	M3												
ZIGLAB DAM OVERFLOW	M3												
ZIGLAB DAM TOTAL OUTFL	M3	40850	42900	30600	34700	38799	36750	44644	39075	43175	44950	30600	34700
DIFFERENCE STORAGE	M3	0	0	0	0	1	0	4406	5875	5875	0	0	270000
W.ZIGLAB COUSE TRIBUTAR	M3												
W.ZIGLAB COUSE TO KAC-N	M3												
W.ZIGLAB COUSE TO W.R S	M3												
W.ZIGLAB COUSE TO WASTE	M3	1129	1129	1129	1129	1129	1129	617	617	617	617	617	617
TALAL DAM LEVEL	M	164.47	164.36	164.25	164.14	164.03	163.91	163.77	163.63	163.51	163.40	163.29	163.08
TALAL DAM STORAGE (BOD)	M3	50191700	49950600	49727500	49495400	49263300	49011000	48717000	48423000	48171000	47940000	47709000	47478000
TALAL.D INFLOW FROM Z.R	M3	158630	156730	156730	156730	156730	157162	170208	138240	136771	157766	157766	157766
TALAL DAM EVAPORATION	M3	28290	28290	28290	23328	23328	23328	23328	23328	23328	23328	23328	23328
TALAL DAM SEEPAGE	M3	6818	6818	6818	6818	6818	6818	6818	6818	6818	6818	6818	6818
TALAL DAM GATE	M3	364622	344721	353721	358683	378883	421015	434062	360094	337625	349710	358620	337620
TALAL DAM OVERFLOW	M3	0											
TALAL DAM TOTAL OUTFLOW	M3	399730	379829	388829	388829	409029	451161	464208	390240	367771	379856	388766	367766
DIFFERENCE STORAGE	M3	0	1	1	1	1	1	0	0	0	8910	0	0
Z.RIVER COURSE TRIBUTAR	M3	4320	4320	4320	4320	4320	4320	4320	4320	4320	4320	4320	4320
Z.RIVER COURSE TO KAC-S	M3	118541	144720	128822	108518	172800	128822	155779	155779	144720	190252	103594	123638
Z.RIVER COURSE TO M.G.Z	M3	38880	38880	38880	38880	38880	38880	38880	38880	38880	38880	38880	38880
Z.RIVER COURSE TO M.G.Z	M3	175392	175392	175392	175392	175392	175392	177120	177120	177120	177120	177120	177120
Z.RIVER COURSE TO M.G.S	M3	8640	8640	8640	8640	8640	8640	8640	8640	8640	8640	8640	8640
Z.RIVER COURSE TO W.R S	M3	0											
Z.RIVER COURSE TO WASTE	M3	34307	-11773	13125	38391	-5691	80419	64781	-9187	-20597	-54044	41524	480

(OLED RESOURCES/ DADAY		13	14	15	16	17	18	19	20	21	22	23	24
B DAM LEVEL	M	123.68	123.78	123.88	124.00	124.10	124.19	124.30	124.50	124.71	124.92	125.10	125.29
AB DAM STORAGE (BOD)	M3	5043000	4993000	4943000	4887000	4833000	4789000	4734000	4636000	4534000	4432000	4346000	4255000
AB DAM INFLOW FROM W.	M3	259	259	259	259	259	259	259	259	259	259	259	259
RAB DAM INFLOW FROM KA	M3	0	0	0	0	0	0	0	0	0	0	0	0
ARAB DAM TOTAL INFLOW	M3	259	259	259	259	259	259	259	259	259	259	259	259
ARAB DAM EVAPORATION	M3	2400	2450	2280	2280	2060	2300	2380	2340	2300	2500	2350	2076
ARAB DAM CAR TO KAC-N	M3	0	0	0	0	0	23540	27380	43230	43130	43170	42850	43300
ARAB DAM CAR TO NEG	M3	44850	30833	54970	44900	39240	26510	55240	53830	53970	37880	43250	53447
ARAB DAM SEEPAGE	M3	3000	3000	3000	2950	2070	2900	2900	2850	2300	2800	2800	2750
ARAB DAM GATE	M3												
ARAB DAM OVERFLOW	M3												
ARAB DAM TOTAL OUTFLOW	M3	50250	36283	60250	50130	43370	55250	87900	102250	101700	86350	91250	101573
DIFFERENCE STORAGE	M3	9	13976	-3991	4129	889	9	10359	9	559	-91	9	-2314
W.ARAB COURSE TRIBUTARY	M3												
W.ARAB COURSE TO KAC-N	M3												
W.ARAB COURSE TO W.R	M3												
W.ARAB COURSE TO WASTE	M3	3000	3000	3000	2950	2070	2900	2900	2850	2300	2800	2800	2750
ZIGLAB DAM LEVEL	M	118.29	118.25	118.22	118.10	117.95	117.85	117.74	117.50	117.27	117.05	116.80	116.61
ZIGLAB DAM STORAGE (BO	M3	2639450	2631250	2625100	2602505	2570225	2550675	2529170	2482250	2437285	2394275	2345400	2308255
ZIG.D INFLOW FROM W.ZIG	M3	26525	26525	26525	26525	26525	26525	26525	26525	26525	26525	26525	26525
ZIG.D INFLOW FROM KAC-N	M3	0	0	0	0	0	0	0	0	0	0	0	0
ZIGLAB DAM TOTAL INFLO	M3	26525	26525	26525	26525	26525	26525	26525	26525	26525	26525	26525	26525
ZIGLAB DAM EVAPORATION	M3	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200
ZIGLAB DAM CAR TO KAC-	M3	0	0	0	0	7227	7197	14700	17292	17292	17292	8338	4169
ZIGLAB DAM CAR TO NEG	M3	32882	44800	47237	46420	38006	38991	56903	52973	51018	56883	53490	24469
ZIGLAB DAM SEEPAGE	M3	617	617	617	617	617	617	617	617	617	617	617	617
ZIGLAB DAM GATE	M3												
ZIGLAB DAM OVERFLOW	M3												
ZIGLAB DAM TOTAL OUTFL	M3	34699	46617	49054	48237	47050	48005	73420	72082	70127	75992	63645	30455
DIFFERENCE STORAGE	M3	26	-13942	66	10568	-975	25	25	-592	-592	-592	25	-1975
W.ZIGLAB COUSE TRIBUTAR	M3												
ZIGLAB COUSE TO KAC-N	M3												
W.ZIGLAB COUSE TO W.R	M3												
W.ZIGLAB COUSE TO WASTE	M3	617	617	617	617	617	617	617	617	617	617	617	617
TALAL DAM LEVEL	M	163.08	162.98	162.87	162.77	162.67	162.57	162.46	162.36	162.24	162.10	162.95	161.83
TALAL DAM STORAGE (BOD)	M3	47268000	47058000	46827000	46648000	46407000	46197000	45966000	45756000	45504000	45210000	44905000	44677000
TALAL.D INFLOW FROM Z.R	M3	178762	178762	190166	178762	178762	178762	181008	178762	178675	181181	170208	167962
TALAL DAM EVAPORATION	M3	23328	23328	23328	23328	23328	23328	23328	23328	23328	23328	23328	23328
TALAL DAM SEEPAGE	M3	6819	6818	6818	6818	6819	6818	6818	6818	6818	6819	6818	6818
TALAL DAM GATE	M3	358615	261146	399312	389585	358615	370705	360814	391705	442529	456034	220640	376961
TALAL DAM OVERFLOW	M3												
TALAL DAM TOTAL OUTFLOW	M3	388762	291292	429458	419731	388762	400851	390960	421851	472675	486181	250786	407107
DIFFERENCE STORAGE	M3	0	118470	-60292	31	0	8911	48	8911	0	0	147422	-30145
Z.RIVER COURSE TRIBUTAR	M3	4320	4320	4320	4320	4320	4320	4320	4320	4320	4320	4320	4320
Z.RIVER COURSE TO KAC-S	M3	108518	184118	128822	128822	108518	94003	118541	123638	155779	202262	202262	128822
Z.RIVER COURSE TO M.G.Z	M3	38880	38880	38880	38880	40176	40176	40176	40176	40176	40176	40176	40176
Z.RIVER COURSE TO M.G.Z	M3	177120	177120	177120	177120	192240	192240	192240	152842	152842	152842	152842	152842
Z.RIVER COURSE TO M.G.S	M3	8640	8640	8640	8640	8640	8640	8640	8640	8640	8640	8640	8640
Z.RIVER COURSE TO W.R	M3												
Z.RIVER COURSE TO WASTE	M3	36596	-136474	56988	47261	20180	46784	12355	77547	96230	63253	-172142	57619

MONTH OCTOBER YEAR 1993

ROLED RESOURCES/ DADAY		25	26	27	28	29	30	31	TOTAL M3	TOTAL L/S	AVERAGE L/S	AVERAGE M3/DAY
B DAM LEVEL	M	125.50	125.69	125.88	126.09	126.31	126.50	126.59	3619000			
B DAM STORAGE (BOD)	M3	4156000	4066000	3977000	3880000	3779000	3692000	3651000	2197000	25428	820	70871
AB DAM INFLOW FROM W.	M3	250	250	250	250	250	250	250	7860	91	3	254
AB DAM INFLOW FROM KA	M3	0	0	0	0	0	0	0	0	0	0	0
RAB DAM TOTAL INFLOW	M3	250	250	250	250	250	250	250	7860	91	3	254
RAB DAM EVAPORATION	M3	2050	2220	1100	1200	900	1500	1200	59459	688	22	1918
ARAB DAM CAR TO KAC-N	M3	42560	41410	42720	45770	42770	0	0	662780	7671	247	21380
ARAB DAM CAR TO NEG	M3	42940	42920	50780	54630	40980	37150	28500	1366457	15815	510	44079
ARAB DAM SEEPAGE	M3	2700	2900	2650	2650	2600	2600	2550	88880	1029	33	2867
ARAB DAM GATE	M3								0	0	0	0
ARAB DAM OVERFLOW	M3								0	0	0	0
ARAB DAM TOTAL OUTFLOW	M3	90250	89450	97250	104250	87250	41250	32250	2177576	25203	813	70244
DIFFERENCE STORAGE	M3	0	-200	0	-3000	0	0	0	27284	316	10	880
W.ARAB COURSE TRIBUTARY	M3								0	0	0	0
ARAB COURSE TO KAC-N	M3								0	0	0	0
W.ARAB COURSE TO W.R	M3								0	0	0	0
W.ARAB COURSE TO WASTE	M3	2700	2900	2650	2650	2600	2600	2550	88880	1029	33	2867
ZIGLAB DAM LEVEL	M	116.60	116.57	116.45	116.20	116.03	115.85	115.52	2100750			
ZIGLAB DAM STORAGE (BO	M3	2306300	2300450	2276975	2281000	2194865	2162525	2104280	698600	8086	261	22535
ZIG.D INFLOW FROM W.ZIG	M3	26500	26500	26500	26500	26500	26500	26500	821798	9512	307	26510
ZIG.D INFLOW FROM KAC-N	M3	0	0	0	0	0	0	0	0	0	0	0
ZIGLAB DAM TOTAL INFLO	M3	26500	26500	26500	26500	26500	26500	26500	821798	9512	307	26510
ZIGLAB DAM EVAPORATION	M3	1200	1200	1200	1200	1200	1200	1200	37200	431	14	1200
ZIGLAB DAM CAR TO KAC-	M3	9034	13201	26746	60735	26352	26352	12078	268005	3102	100	8645
ZIGLAB DAM CAR TO NEG	M3	22131	35165	26352	32789	30894	57144	16358	1201771	13909	449	38767
ZIGLAB DAM SEEPAGE	M3	617	394	394	394	394	394	394	21373	247	8	689
ZIGLAB DAM GATE	M3								0	0	0	0
ZIGLAB DAM OVERFLOW	M3								0	0	0	0
ZIGLAB DAM TOTAL OUTFL	M3	32982	49960	54692	95118	58840	85090	30030	1528349	17689	571	49302
DIFFERENCE STORAGE	M3	-632	15	-32217	17517	0	-345	0	-7951	-92	-3	-256
W.ZIGLAB COUSE TRIBUTAR	M3								0	0	0	0
W.ZIGLAB COUSE TO KAC-N	M3								0	0	0	0
W.ZIGLAB COUSE TO W.R	M3								0	0	0	0
W.ZIGLAB COUSE TO WASTE	M3	617	394	394	394	394	394	394	21373	247	8	689
TALAL DAM LEVEL	M	161.82	161.61	161.50	161.37	161.24	161.03	160.03	42907000			
TALAL DAM STORAGE (BOD)	M3	44468000	44259000	44050000	43803000	43566000	43647000	43157000	7284700	84314	2720	234990
TALAL.D INFLOW FROM Z.R	M3	179798	179798	179798	192240	184982	175133	198720	5293469	61267	1976	170757
TALAL DAM EVAPORATION	M3	23328	23328	23328	23328	23328	23328	23328	743016	8600	277	23968
TALAL DAM SEEPAGE	M3	6818	6818	6818	6818	6818	6818	6818	211363	2446	79	6818
TALAL DAM GATE	M3	358652	358652	396652	459295	363836	338788	418574	11480486	132876	4286	370338
TALAL DAM OVERFLOW	M3								0	0	0	0
TALAL DAM TOTAL OUTFLOW	M3	388798	388798	426798	489441	393982	368934	448720	12434865	143922	4643	401125
DIFFERENCE STORAGE	M3	0	0	0	-60201	-290000	296199	0	143304	1659	54	4623
Z.RIVER COURSE TRIBUTAR	M3	4320	4320	4320	4320	4320	4320	4320	133920	1550	50	4320
Z.RIVER COURSE TO KAC-S	M3	103594	144720	103594	110253	144720	144720	118541	4230232	48961	1579	136459
Z.RIVER COURSE TO M.G.Z	M3	38880	38880	38880	38880	38880	38881	38881	1215650	14070	454	39215
Z.RIVER COURSE TO M.G.Z	M3	181440	172800	172800	172800	172800	172800	172800	5384450	62320	2010	173692
Z.RIVER COURSE TO M.G.S	M3	8640	8640	8640	8640	8640	8640	8640	267840	3100	100	8640
Z.RIVER COURSE TO W.R	M3								0	0	0	0
Z.RIVER COURSE TO WASTE	M3	37236	4750	83876	139860	9934	-15115	90850	727597	8421	272	23471

APPENDIX No. 2

WATER BUDGET ANALYSIS OF THE KING TALAL RESERVOIR

JORDAN VALLEY AUTHORITY KING TALAL DAM

RESERVOIR DATA				INFLOW DATA				OUTFLOW DATA						
DATE	RE.ELE	RE.VOL	CH.VOL	ZARQA	TRIBU.	RAIN-F.	TOTAL	BOT.O.L.	P.HOUSE	SPILL-W.	S.L.ABUT.	S.R.ABUT.	EVAPOR.	TOTAL
1	152.30	29090250	181275	175308	12899		188207				2392	267	3932	3932
2	152.43	29274525	198450	188502	13892		202394				2392	267	3944	3944
3	152.57	29472975	155925	176205	10915		187120	25920			2392	267	5275	31195
4	152.68	29628900	155925	176219	10915		187134	25920			2561	308	5289	31209
5	152.79	29784825	162925	162811	11405	2651	176867	8640			2561	308	5302	13942
6	152.90	29947750	134750	156895	9433		166328	25920			2561	308	5658	31578
7	153.00	30082500	141750	161995	9923		171918	24840			2561	308	5328	30168
8	153.10	30224250	141750	160672	9923		170595	24840			2561	308	4005	28845
9	153.20	30366000	141750	156667	9923		166590	24840			2561	308	0	24840
10	153.30	30507750	255150	235440	17861	8449	261750	4320			2561	308	2280	6600
S.TOT 1-10			1672550	1750714	117089	11100	1878903	165240	0	0	25103	2957	41013	206253
11	153.48	30762900	311850	295407	21830		317237				2561	308	5387	5387
12	153.70	31074750	269325	253179	18853		272032				2561	308	2707	2707
13	153.89	31344075	233425	221162	16340		237502				2561	308	4077	4077
14	154.05	31577500	976500	896084	68355	21296	985735	4320			2561	308	4915	9235
15	154.68	32554000	1210000	1155997	86800		1242797				2561	308	2797	2797
16	155.48	33794000	403000	377672	28210		405882				2561	308	2882	2882
17	155.74	34197000	263500	243600	18445	3055	265100				2561	308	1600	1600
18	155.92	34460500	651000	596643	45570	9666	651879				2715	347	879	879
19	156.33	35111500	279000	262443	19530		281973				2715	347	2973	2973
20	156.51	35390500	248000	232884	17360		250244				2715	347	2244	2244
S.TOT 11-20			4875600	4535070	341293	34018	4910381	4320	0	0	26072	3197	30461	34781
21	156.67	35638500	186000	183549	13020		196569	7560			2715	347	3009	10569
22	156.79	35824500	139500	160187	9765		169952	25920			2715	347	4532	30452
23	156.88	35964000	170500	182116	11935		194051	20520			2715	347	3031	23551
24	156.99	36134500	186000	175002	14041		189043				2715	347	3043	3043
25	157.11	36320500	155000	147465	10590		158055				2715	347	3055	3055
26	157.21	36475500	124000	121413	8719		130132				2715	347	6132	6132
27	157.29	36599500	-15500	152498	10951		163449		172800		2715	347	6149	178949
28	157.28	36584000	-15500	151060	10847		161907		172800		2715	347	4607	177407
1/3	157.27	36568500												
S.TOT 21-31			930000	1273290	89868	0	1363158	54000	345600	0	21720	2776	33558	433158
TOTAL 1-31			7478250	7559074	548250	45118	8152442	223560	346600	0	72895	8930	105032	674192

NOTE:CHANGE IN VOLUME RELATING TO DAY BEFORE . BALANCE FOR : FEB.1990

JORDAN VALLEY AUTHORITY KING TALAL DAM

RESERVOIR DATA				INFLOW DATA				OUTFLOW DATA						
DATE	RE.ELE	RE.VOL	CH.VOL	ZARQA	TRIBU.	RAIN-F.	TOTAL	BOT.O.L.	P.HOUSE	SPILL-W.	S.L.ABUT.	S.R.ABUT.	EVAPOR.	TOTAL
1	157.27	36568500	418500	517445	13133	16898	547476		127440		2715	347	1536	128976
2	157.54	36987000	496000	618160	12092		630252		129600		2715	347	4652	134252
3	157.86	37483000	108500	156471	9072		165543	19940	32400		2715	347	4703	57043
4	157.93	37591500	143500	167065	8640		175705	25920			2715	347	6285	32205
5	158.02	37735000	140000	160574	8500		169074	25920			2715	347	3154	29074
6	158.10	37875000	105000	200488	9200		209688		101520		2715	347	3168	104688
7	158.16	37980000	35000	173161	8900		182061		144000		2715	347	3061	147061
8	158.18	38015000	0	170363	8800		179163		172800		2715	347	6363	179163
9	158.18	38015000	0	170663	8500		179163		172800		2995	420	6363	179163
10	158.18	38015000	0	159377	8650	9545	177572		172800		2995	420	4772	177572
S.TOT 1-10			1146500	2493787	95487	26443	2615697	71780	1053360	0	27710	3616	44057	1169197
11	158.18	38015000	35000	196960	9250	3022	209232		172800		2995	420	1432	174232
12	158.20	38050000	472500	606421	13400	30257	650078		172800		2995	420	4778	177578
13	158.47	38522500	1522500	1555067	14500	8081	1578648		51300		2995	420	4848	56148
14	159.34	40045000	215000	368561	14500		383061		129600		2995	420	8461	138061
15	159.48	40290000	105000	231977	12850		244827		129600		2995	420	10227	139827
16	159.54	40395000	87500	215958	11400		227358		129600		2995	420	10258	139858
17	159.59	40482500	70000	196007	10450		206457		129600		2995	420	6857	136457
18	159.63	40552500	52500	177803	9450		187253		129600		2995	420	5153	134753
19	159.66	40605000	0	170221	9300		179521		169200		3162	449	10321	179521
20	159.66	40605000	-17500	156871	8750		165621		172800		3162	449	10321	183121
S.TOT 11-20			2572500	3875846	114850	41360	4032056	0	1388900	0	30284	4258	72656	1459556
21	159.65	40587500	-87500	126916	6500		133416		210600		3162	449	10316	220916
22	159.60	40500000	-122500	129590	6600		136190		248400		3162	449	10290	258690
23	159.53	40377500	-157500	133444	6800		140244		289200		3162	449	8544	297744
24	159.44	40220000	-105000	152103	7200		159303		259200		3162	449	5103	264303
25	159.38	40115000	-140000	120483	5500		125983		259200		3162	449	6783	265983
26	159.30	39975000	-105000	117755	5400		123155		221400		3330	478	6755	228155
27	159.24	39870000	-87500	131068	5850		136918		216000		3330	478	8418	224418
28	159.19	39782500	-122500	128629	5788		134417		250200		3330	478	6717	256917
29	159.12	39660000	-140000	132262	5616		137878		267840		3330	478	10038	277878
30	159.04	39520000	-122500	131066	5200		136266		247104		3330	478	11662	258766
31	158.97	39397500	0	227775	18144	16598	262517		259200		3330	478	3317	262517
1/4	158.97	39397500												
S.TOT 21-31			-1190000	1531091	78598	16598	1626287	0	2728344	0	35790	5113	87943	2816287
TOTAL 1-31			2829000	7900704	288935	84401	8274040	71780	5168604	0	93784	12987	204656	5445040

NOTE:CHANGE IN VOLUME RELATING TO DAY BEFORE . BALANCE FOR : MAR.1990

JORDAN VALLEY AUTHORITY KING TALAL DAM

RESERVOIR DATA				INFLOW DATA				OUTFLOW DATA						
DATE	ES.ELE	RE.VOL	CH.VOL	ZARQA	TRIBU.	RAIN-F.	TOTAL	BOT.S.L.	P.HOUSE	SPILL-W.	S.L.ABUT.	S.B.ABUT.	EVAPOR.	TOTAL
1	153.97	39297500	87500	248433	74352	31538	354333		259200		3330	473	8399	267403
2	153.93	39385000	945000	790126	194202	3229	987657		36000		3330	473	6657	42657
3	153.56	40430000	525000	425477	106369		531846		0		3330	473	6346	6346
4	153.36	40955000	227500	131313	44870		176183		0		3330	473	8689	8689
5	153.93	41182500	55000	144277	36069		180346		116100		3331	493	8746	128645
6	153.31	41238000	57000	167547	23568		191115		129600		3331	493	10515	143115
7	153.05	41295000	57000	177424	19714		197138		129600		3331	493	10638	140138
8	153.33	41352000	33000	162126	16024		178150		129600		3331	493	10560	140160
9	153.16	41385000	-13000	147215	14560		161775		170200		3331	493	10575	180779
10	153.53	41372000	-41000	130598	11531		141129		172200		3331	493	10329	185153
S.TOT 1-10			1332500	2526602	547225	34267	3108054	0	1143100	0	33306	4900	83754	1265054
11	153.63	41382000	-34000	139865	8328		148193		132243		3331	493	10553	232733
12	153.54	41376000	-57000	143876	8374		152250		199729		3331	493	10530	209252
13	153.51	41319000	-54000	147466	7792		155223		193700		3331	493	10508	208223
14	153.38	41265000	-70000	130557	8352		138910		186700		3415	512	10490	209213
15	153.34	41195000	-70000	134117	8561		142678		193720		3415	512	10958	212678
16	153.32	41125000	-70000	130818	8350		139168		193720		3415	512	10448	209163
17	153.33	41055000	-70000	130793	8349		139147		198720		3415	512	10427	209147
18	153.32	40985000	-70000	130778	8348		139125		193729		3415	512	10406	209128
19	153.75	40915000	-35000	128521	8204		136725		213840		3415	512	10385	228225
20	153.73	40880000	-87500	132150	8435		140585		215000		3415	512	10325	229025
S.TOT 11-20			-555000	1343246	85584	0	1428830	0	2013120	0	34143	5078	104790	2187131
21	153.63	40840000	-140000	119561	6293		125854		253800		3330	501	12054	269684
22	153.67	40700000	-157500	111278	5857		117135		259200		3330	501	15435	274635
23	153.51	40542500	-122500	117573	7505		125078	39500	259200		3330	501	19778	317578
24	153.43	40420000	-105000	123756	6514		130270	43200	259200		3330	501	20370	326770
25	153.33	40315000	-105000	120758	7708		128466	43200	259200		3330	501	18566	324866
26	153.23	40210000	-105000	112272	5910		118182	52200	259200		3330	501	16782	328182
27	153.15	40105000	-140000	116141	6107		122248	84600	259200		3330	501	20348	367148
28	153.32	39965000	-105000	120243	6329		126577	124200	259200		3330	501	23177	406577
29	153.75	39860000	-105000	105550	6708		112258	113400	259200		3330	501	13698	390299
30	153.60	39755000	-105000	90177	6788		96965	108000	259200		3330	501	3765	376965
1/5	153.44	39650000												
S.TOT 21-31			-1050000	1137224	65749	0	1202973	608400	2586600	0	33900	5010	177973	3412973
TOTAL 1-31			-272500	5003072	697238	34267	5805237	608400	5742820	0	101554	14938	331517	6732737

NOTE:CHANGE IN VOLUME RELATING TO DAY BEFORE . BALANCE FOR : APR.1990

JORDAN VALLEY AUTHORITY KING TALAL DAM

RESERVOIR DATA				INFLOW DATA				OUTFLOW DATA						
DATE	RE.ELE	RE.VOL	CH.VOL	ZARQA	TRIBU.	RAIN F	TOTAL	BOT.O.L.	P.HOUSE	SPILL-W	S.L.ABUT.	S.R.ABUT.	EVAPOR.	TOTAL
1	158.44	38470000	-280000	91645	6650		98495	108000	259200		3390	501	11295	378495
2	158.28	38190000	-262500	104175	6720		110895	108000	259200		3390	501	15995	373595
3	158.13	37927500	-274000	100937	6540		107477	108000	259200		3310	476	14277	381477
4	157.97	37653500	-263500	112884	6550		119434	108000	259200		3310	476	15734	382934
5	157.80	37390000	-263500	114508	6400		120908	108000	259200		3310	476	17208	384408
6	157.63	37126500	-217000	115687	6700		122387	69300	259200		3310	476	10887	339387
7	157.49	36909500	-248000	116233	3650		119883		355500		3310	476	12383	367883
8	157.33	36661500	-232500	120275	6580		126855		345600		3310	476	13755	359355
9	157.18	36429000	-248000	124552	6900		131452		367200		3310	476	12252	379452
10	157.02	36181000	-232500	128646	6800		135446		354240		3310	476	13706	367946
S.TOT 1-10			-2521500	1129742	63490	0	1193232	663300	2913940	0	33260	4810	137492	3714732
11	156.87	35948500	-232500	142650	7200		149850		367200		3310	476	15150	382350
12	156.72	35716000	-217000	138056	7100		145156		350100		3310	476	12056	362156
13	156.58	35499000	-201500	147347	7250		154597		345600		3310	476	10497	356097
14	156.45	35297500	-217000	131202	6905		138107		338688		3310	476	16419	355107
15	156.31	35080500	-217000	132411	7100		139511		338688		3310	476	17823	356511
16	156.17	34863500	-217000	136128	7250		143378		345600		3310	476	14778	360378
17	156.03	34646500	-217000	137414	7360		144774		345600		3310	476	16174	361774
18	155.89	34429500	-217000	137242	7450		144692		345600		3310	476	16092	361692
19	155.75	34212500	-217000	138746	7320		146066		345600		3310	476	17466	363066
20	155.61	33995500	-217000	140024	7400		147424		345600		3310	476	18824	364424
S.TOT 11-20			-2170000	1381220	72335	0	1453555	0	3468276	0	33100	4760	155279	3623555
21	155.47	33778500	-217000	135806	7200		143006		345600		3100	449	14406	360006
22	155.33	33561500	-232500	120632	6800		127432		345600		3100	449	14332	359932
23	155.18	33329000	-232500	120901	6450		127351		345600		3100	449	14251	359851
24	155.03	33096500	-232500	121022	6250		127272		345600		3100	449	14172	359772
25	154.88	32864000	-232500	123811	6200		130011		345600		3100	449	16911	362511
26	154.73	32631500	-232500	126218	6500		132718		345600		3100	449	19618	365218
27	154.58	32399000	-217000	133920	6800		140720		332640		3100	449	25080	357720
28	154.44	32182000	-217000	121451	6500		127951		328320		3100	449	16631	344951
29	154.30	31965000	-217000	113881	6420		120301	41040	279720		3100	449	16541	337331
30	154.16	31748000	-217000	113232	6200		119433	18660	301320		3100	449	16452	336432
31	154.02	31531000	-215275	117425	6280		123705		319680		3100	449	19300	338980
1/6	153.87	31315725												
S.TOT 21-31			-2462775	1348299	71600	0	1419899	59700	3635280	0	34100	4939	167694	3882674
TOTAL 1-31			-7154275	3859261	207425	0	4066686	723000	10017496	0	100460	14509	480465	11220961

NOTE.CHANGE IN VOLUME RELATING TO DAY BEFORE . BALANCE FOR : MAY 1990

10 11/1/96

JORDAN VALLEY AUTHORITY KING TALAL DAM

RESERVOIR DATA				INFLOW DATA				OUTFLOW DATA						
DATE	RE.ELE	RE.VOL	CH.VOL	ZARQA	TRIBU.	RAIN-F.	TOTAL	BOT.O.L.	P.HOUSE	SPILL-W.	S.L.ABUT.	S.R.ABUT.	EVAPOR.	TOTAL
1	153.87	31315725	-212625	118536	6180		124716		319680		3100	449	17661	337341
2	153.72	31103100	-212625	115115	5480		120595		319680		3100	449	15540	333220
3	153.57	30890475	-198450	113925	5140		119065		308720		3100	449	10795	317515
4	153.43	30692025	-198450	111236	4820		116056		302400		3100	449	12106	314506
5	153.29	30493575	-198450	111307	4710		116017		302400		3100	449	12067	314467
6	153.15	30295125	-198450	92316	4250		97566		282150		2846	411	13366	295516
7	153.01	30096675	-184275	105488	4360		109848		290800		2846	411	13323	294123
8	152.88	29912400	-184275	107915	4550		112465		280800		2846	411	15940	296740
9	152.75	29728125	-198450	95713	4200		99913		285120		2846	411	13243	298363
10	152.61	29529675	-184275	113605	4400		118005		285120		2846	411	17160	302280
S.TOT 1-10			-1970325	1085656	48090	0	1133746	0	2964870	0	29750	4200	139201	3104071
11	152.48	29345400	-184275	107604	4320		111825		284256		2846	411	11844	296100
12	152.35	29161125	-184275	105498	4147		109645		280800		2846	411	13120	293920
13	152.22	28976850	-184275	105112	4493		109605		280800		2846	411	13080	293880
14	152.09	28792575	-184275	105160	4406		109566		280800		2846	411	13041	293841
15	151.96	28608300	-184275	105988	4838		110826		280800		2846	411	14301	295101
16	151.83	28424025	-184275	108708	4666		113374		280800		2846	411	16849	297649
17	151.70	28239750	-184275	104910	4536		109446		280800		2846	411	12921	293721
18	151.57	28055475	-155925	107404	4752		112156		255200		2846	411	12881	268081
19	151.46	27899550	-155925	109999	4838		114837		259200		2846	411	11562	270762
20	151.35	27743625	-155925	109969	4838		114807		259200		2846	411	11532	270732
S.TOT 11-20			-1757760	1070252	45835	0	1116087	0	2742656	0	28460	4110	131131	2873787
21	151.24	27587700	-170100	106026	4493		110519		267840		2846	411	12779	280619
22	151.12	27417600	-170100	98883	4234		103117		259200		2667	370	14017	273217
23	151.00	27247500	-170100	100027	4320		104347		259200		2667	370	15247	274447
24	150.88	27077400	-170100	103611	4493		108104		259200		2667	370	19004	278204
25	150.76	26907300	-170100	100684	4838		105522		259200		2667	370	16422	275622
26	150.64	26737200	-170100	99636	4579		104215		259200		2667	370	15115	274315
27	150.52	26567100	-198450	106522	4666		111188		290800		2667	370	18838	309638
28	150.38	26368650	-170100	99626	4493		104119		259200		2667	370	15019	274219
29	150.26	26198550	-170100	99409	4666		104075		259200		2667	370	14975	274175
30	150.14	26028450	-127575	105343	4925		110268		222912		2667	370	14931	237843
1/7	150.05	25900875												
S.TOT 21-31			-1686825	1019768	45706	0	1065474	0	2595952	0	26849	3741	156347	2752299
TOTAL 1-31			-5414850	3175677	139630	0	3315307	0	8303478	0	85039	12151	426679	8730157

NOTE:CHANGE IN VOLUME RELATING TO DAY BEFORE . BALANCE FOR : JUNE 1990

[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
8	149.52	25228800	-87675	119616	4984		124601		198720		2351	323	14774	213494	
9	149.45	25141125	-87675	120787	5033		125819		198720		2351	323	14761	213481	
10	149.38	25053450	-87675	120774	5032		125806		198720		2351	323	14761	213481	
S.TOT 1-10			-935100	1234462	51437	0	1285919	0	2064096	0	24458	3371	156923	2221019	
11	149.31	24965775	-125250	113374	4724		118098	34200	194460		2351	323	14748	243348	
12	149.21	24840525	-112725	107691	4487		112178		207720		2351	323	17183	224903	
13	149.12	24727800	-100200	111056	4627		115683		198720		2351	323	17163	215883	
14	149.04	24627600	-100200	108687	4529		113216		198720		2351	323	14696	213416	
15	148.96	24527400	-100200	111008	4625		115634		199930		2351	323	15904	215834	
16	148.88	24427200	-100200	110992	4625		115617		199930		2351	323	15887	215817	
17	148.80	24327000	-100200	112148	4673		116821		199930		2351	323	17091	217021	
18	148.72	24226800	-100200	114473	4770		119242		199930		2351	323	19512	219442	
19	148.64	24126600	-100200	112114	4671		116785		199930		2351	323	17055	216985	
20	148.56	24026400	-100200	110928	4622		115550		199930		2351	323	15820	215750	
S.TOT 11-20			-1029575	1112471	46355	0	1158824	34200	1999140	0	23510	3230	165059	2198399	
21	148.48	23926200	-100200	114414	4767		119181		199930		2213	284	19451	219381	
22	148.40	23826000	-100200	107399	4475		111874		199930		2213	284	12144	212074	
23	148.32	23725800	-100200	110881	4620		115501		199930		2213	284	15771	215701	
24	148.24	23625600	-100200	112028	4668		116696		199930		2213	284	16966	216896	
25	148.16	23525400	-125250	118663	4944		123607		233120		2213	284	15737	248857	
26	148.06	23400150	-137775	115067	4794		119861		241920		2213	284	15716	257636	
27	147.95	23262375	-125250	123327	5139		128466		235608		2213	284	18108	253716	
28	147.85	23137125	-100200	112615	4692		117307		203040		2213	284	14467	217507	
29	147.77	23036925	-100200	115918	4830		120748		206496		2213	284	14452	220948	
30	147.69	22936725	-100200	112438	4685		117123		206496		2213	284	10827	217323	
31	147.61	22836525	-100200	117042	4877		121919		206496		2213	284	15623	222119	
1/8	147.53	22736325													
S.TOT 21-31			-1189875	1259792	52491	0	1312283	0	2327896	0	24343	3124	167262	2501156	
TOTAL 1-31			-3164550	3606745	150281	0	3757026	34200	6196132	0	72311	9725	491244	6921576	

NOTE:CHANGE IN VOLUME RELATING TO DAY BEFORE . BALANCE FOR; JULY 1990

26	145.23	20011500	-105000	11[illegible]	4684		11[illegible]		[illegible]		2018	188	9309	222109	
27	145.13	19906500	-105000	11[illegible]29	4730		11[illegible]59		[illegible]		2018	188	10459	223259	
28	145.03	19801500	-105500	116233	4719		121002		[illegible]		2018	188	13926	257502	
29	144.90	19665000	-105000	115795	4699		120494		[illegible]		2018	188	12694	225494	
30	144.80	19560000	-105000	114509	4771		119280		[illegible]		2018	188	11480	224280	
31	144.70	19455000	-105000	114451	4769		119220		[illegible]		2018	188	11420	224220	
1/9	144.60	19350000													
S.TOT 11-31			-1186500	1266739	51901	0	1318640		[illegible]	0	12276	2071	155564	2505140	
TOTAL 1-31			-2286325	2567567	145765	0	2713330	1797.26	[illegible]	0	64812	6676	423369	2099655	

NOTE:CHANGE IN VOLUME RELATING TO DAY BEFORE . BALANCE FOR ; AUG.1990

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JORDAN VALLEY AUTHORITY ITY KING TALAL DAM

RESERVOIR DATA				INFLOW DATA				OUTFLOW DATA						
DATE	RE.ELE	RE.VOL	CH.VOL	ZARQA	TRIBU.	RAIN-F.	TOTAL	BOT.O.L.	P.HOUSE	SPILL-W.	S.L.ABUT.	S.R.ABUT.	EVAPOR.	TOTAL
1	140.75	15331875	-156375	101555	4231		105786		254016		1808	157	8145	262161
2	140.60	15175500	-156375	100617	4192		104809		254016		1808	157	7168	261184
3	140.45	15019125	-156375	101505	4119		105624		254016		1808	157	7983	261999
4	140.30	14862750	-156375	102271	4150		106421		254016		1808	157	8780	262796
5	140.15	14706375	-175125	103069	4183		107252		271080		1808	157	11297	282377
6	139.98	14531250	-168750	104765	4138		108903		266480		1708	143	11173	277653
7	139.80	14362500	-178125	101090	4103		105193		276480		1708	143	6838	283318
8	139.61	14184375	-178125	102687	4167		106854		276480		1708	143	8499	284979
9	139.42	14006250	-178125	101717	4128		105845		278900		1708	143	5070	283970
10	139.23	13828125	-178125	100977	4098		105075		276480		1708	143	6720	285200
S.TOT 1-10			-1681875	1020251	41511	0	1061762	0	2661964	0	17580	1500	81675	2743637
11	139.04	13650000	-178125	100032	4168		104200		276480		1708	143	5845	282325
12	138.85	13471875	-178125	99601	4150		103751		276480		1708	143	5396	281876
13	138.66	13293750	-178129	100754	4198		104952		276480		1708	143	6601	283081
14	138.47	13115621	-178121	101617	4124		105741		276480		1602	131	7382	283862
15	138.28	12937500	-168750	114617	4527		119144		276480		1602	131	11414	287894
16	138.10	12768750	-168750	116113	4587		120700		276480		1602	131	12970	289450
17	137.92	12600000	-168750	116041	4584		120625		276480		1602	131	12895	289375
18	137.74	12431250	-150000	113529	4485		118014		259200		1602	131	8814	268014
19	137.58	12281250	-150000	114252	4513		118765		259200		1602	131	9565	268765
20	137.42	12131250	-150000	111037	4506		115543		259200		1602	131	6343	265543
S.TOT 1.-20			-1668750	1087593	43841	0	1131434	0	2712960	0	16338	1346	87224	2800184
21	137.26	11981250	-150000	109490	4443		113933		259200		1602	131	4733	263933
22	137.10	11831250	-159375	113326	4476		117802	11700	259200		1602	131	6277	277177
23	136.93	11671875	-46875	234886	4500		239386	21600	259200		1602	131	5461	286261
24	136.88	11625000	-168750	113037	4465		117502	21600	259200		1602	131	5452	286252
25	136.70	11456250	-178125	104514	4355		108869	21600	259200		1602	131	6194	286994
26	136.51	11278125	-178125	101522	4230		105752	21600	259200		1602	131	5077	283877
27	136.32	11100000	-178125	101503	4229	1911	105732	21600	259200		1602	131	5057	283857
28	136.13	10921875	-121675	138586	4319	3189	142905	73350	189000		1602	131	3430	264780
29	136.00	10800000	-126000	133316	4420		137736	25920	233280		1602	131	4536	263736
30	135.84	10674000	-126000	135149	4442		139591		259200		1602	131	6391	265591
31	135.68	10548000	-126000	134731	4450		139181		259200		1578	123	5981	265181
1/11	135.52	10422000												
S.TOT 21-31			-1559250	1420060	48329	5100	1468389	211970	2755080	0	17598	1433	53589	3027639
TOTAL 1-31			-4909875	3527904	133681	5100	3661585	218970	8130004	0	51516	4279	222466	8571460

NOTE:CHANGE IN VOLUME RE RELATING TO DAY BEFORE . BALANCE FOR: OCT.1990

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JORDAN VALLEY AUTHORITY — KING TALAL DAM

RESERVOIR DATA				INFLOW DATA				OUTFLOW DATA						
DATE	RI.ELE	RI.VOL	CH.VOL	ZARQA	TRIBU.	RATK-F.	TOTAL	BOT.O.L	P.HOUSE	SPILL-W.	S.L.ABST.	S.R.ABST.	EVAPOR.	TOTAL
1	137.32	10422000	-126000	132568	5093		137661		259200		1578	123	4461	265361
2	135.36	10296000	-126000	133117	5258		138376		259200		1578	123	5176	264376
3	135.20	10170000	-133875	126796	5146		131942		259200		1578	123	6617	265817
4	135.03	10036125	-110250	122131	4693		126827		230500		1578	123	6577	237077
5	134.89	9925875	-102375	120225	4619		124844		221100		1578	123	5819	227219
6	134.76	9823500	-78750	123701	5020		128721		203850		1365	91	3621	207471
7	134.66	9744750	-86625	122995	4856		127656		210150		1365	91	4331	214481
8	134.55	9658125	-94500	120744	4639	11076	125384		216000		1365	91	3884	219884
9	134.4[illegible]	9563625	102375	195926	17037	3053	212963	50103	59100		1365	91	788	110588
10	134.56	9666000	39375	147492	8096	1367	156582	7200	108000		1365	91	1007	116207
S.TOT 1-10			-716625	1345701	61154	16096	1410155	57600	2026900	0	11715	1070	42280	2126780
11	134.61	9705375	-15750	121285	4725		126012	91000	18600		1365	91	2162	141762
12	134.59	9689625	-7875	119293	4712		124006	129000			1365	91	2881	131881
13	134.58	9681750	15750	145821	5289		151109	129600			1365	91	5759	135359
14	134.60	9697500	15750	148451	5544		153995	129600			1250	88	8645	138245
15	134.62	9713250	-31500	142791	5718		148509	172800			1250	88	7209	180009
16	134.58	9681750	-31500	143698	5521		149219	172800			1250	88	7919	180719
17	134.51	9650250	-31500	113762	5446		149209	172800			1250	88	7909	180709
18	134.50	9618750	-31500	141156	5588		147044	172800			1250	88	5744	178544
19	134.36	9587250	-78750	129029	4957		133986	207000			1250	88	5736	212736
20	134.36	9508500	-110250	122434	4704		127138	45000	188100		1250	88	4288	237388
S.TOT 11-20			-307125	1358022	52204	0	1410226	1422100	236700	0	12815	889	58251	1717351
21	134.[illegible]2	9398250	-118125	116124	4473		120598		237600		1200	85	1423	239023
22	134.[illegible]7	9280125	-126000	110936	4203		115138		237600		1200	85	3538	241136
23	133.[illegible]1	9154125	-126000	112099	4428		116527		237600		1200	85	4927	242527
24	133.[illegible]5	9028125	-126000	114212	4388		118600		237600		1200	85	7000	244600
25	133.[illegible]9	8902125	-110250	105298	3932		109231		216000		1200	85	3481	219481
26	133.[illegible]5	8791875	-110250	105173	4011		109211		216000		1200	85	3461	219464
27	133.[illegible]1	8681625	-110250	105048	4119		109197		216000		1200	85	3117	219447
28	133.[illegible]7	8571375	-110250	105032	4119		109180		216000		1200	85	3130	219430
29	133.[illegible]3	8461125	-110250	105483	3807		109290		216000		1200	85	1540	219540
30	132.[illegible]9	8350875	-110250	105367	3913		109280		216000		1200	85	3540	219530
1/12	132.[illegible]5	8240625					0							0
S.TOT 21-[illegible]			-1157625	1085072	41183	0	1126255	0	2216100	0	12000	850	37780	2284186
TOTAL 1-31			-2181375	3788795	158142	16096	3916937	1480000	4510000	0	39500	2809	138312	6128312

NOTE: CHANGE IN VOLUME AT RELATING TO DAY BEFORE.

BALANCE FOR: NOV.1990

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Seepage in the left abutment

Seepage in the right abutment

JORDAN VALLEY AUTHORITY — KING TALAL DAM

RESERVOIR DATA				INFLOW DATA				OUTFLOW DATA						
DATE	RE.ELE	RE.VOL	CH.VOL	IARDA	TRIBU.	RAIN-F.	TOTAL	BOT.O.L.	P.HOUSE	SPILL-W.	S.L.ABUT.	S.R.ABUT.	EVAPOR.	TOTAL
1	132.79	6240600	-110250	124265	4641		128906		235602		1384	113	4056	339156
2	132.6[illegible]	6130350	-110250	126060	4843		130903		232602		1384	113	6053	241153
3	132.4	6020100	-86625	124939	4771	1004	130714		214503		1384	113	1339	217339
4	132.36	5933500	-78750	135958	3292		139250		214503		1384	113	2000	218000
5	132.26	5854750	-74875	141674	5441		147065		214586		1304	110	1940	217940
6	132.17	5780875	-60875	143291	5244		148435		214586		1304	110	3310	219210
7	132.06	5719600	-53000	143856	5449		149264		214586		1304	110	3299	219299
8	131.97	5666600	-37000	137209	4980		142189		214586		1304	110	3283	219183
9	131.86	5629600	-32000	140574	5401		145975		214586		1304	110	3275	219171
10	131.92	5597600	[illegible]	140107	5135		145142		206426		1304	110	3605	211445
TOTAL 1-10			-[illegible]	1395777	51103	1004	1408281	0	2224200	0	13560	1110	32166	2270036
11	131.54	5525600	-[illegible]	140141	5534		145675		257786		1304	110	5175	264375
12	131.37	5509000	-16600	141203	5425		146628		257786		1304	110	6428	265628
13	131.20	5490000	-19000	146288	5384		151672		257786		1304	110	4472	263672
14	131.04	5476000	-13000	142909	5183		148092		257786		1304	110	1892	261092
15	130.87	5365000	-71000	143258	5426		148684		216386		1304	110	1884	219684
16	130.76	5294000	-71000	141622	5380		147002		214586		1304	110	2502	218502
17	130.65	5222500	-71500	141622	5380		147002		214586		1304	110	2502	218502
18	130.54	5151000	-71500	141553	5459		146992		214586		1304	110	2492	218492
19	130.43	5079500	-71500	142170	5432		147602		214586		1304	110	3102	219102
20	130.32	5008000	-58500	142725	5253		147978		206986		1304	110	3078	206478
TOTAL 11-20			-8 8500	1425491	55536	0	1477027	0	2307860	0	13040	1100	33527	2355527
21	130.21	5491000	11000	139675	5214		144889		[illegible]		1224	108	2485	[illegible]
22	130.13	5497000	12000	138942	5293		144235		[illegible]		1224	108	1635	196125
23	130.07	5445500	-22500	137651	5203		142321		[illegible]		1224	108	1221	175821
24	130.02	5435000	-6500	138199	5102		143301		147854		1224	108	610	149801
25	130.01	5430500	-30500	132941	5108		138049		166608		1224	108	609	168549
26	129.96	5400000	-26000	133567	5060		138627		171468		1224	108	1827	174627
27	129.90	5374000	-19000	135562	5063		140625		156675		1224	108	1215	158624
28	129.87	5355000	-19000	132430	5180		137610		154380		1224	108	1890	155610
29	129.84	5336000	-19000	132619	5081		137700		150780		1180	104	3636	155700
30	129.81	5317000	-19000	132019	5072		137091		150780		1180	104	3027	155091
31	129.78	5298000	-19000	136047	5227		141274		150786		1180	104	1210	153274
32	129.76	5279000												
TOTAL 21-31			-293500	1489271	56685	366	1546322	0	1806145	0	13332	1176	19569	1840222
TOTAL [illegible]			-[illegible]	[illegible]	107721	1376	4432330	0	[illegible]	0	39752	[illegible]	[illegible]	[illegible]

DIF:CHANGE IN VOLUME RELATING TO DAY BEFORE.

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JORDAN VALLEY AUTHORITY — KING TALAL DAM

RESERVOIR DATA				INFLOW DATA				OUTFLOW DATA						
DATE	RE.ELE	RE.VOL	CH.VOL	ZARQA	IRRIG.	RAIN-F.	TOTAL	BOT.O.L.	P.HOUSE	SPILL-W.	S.L.ABUT.	S.R.ABUT.	EVAPOR.	TOTAL
1	129.75	6150000	-10000	138349	5721		144375		150381		1180	104	3025	156373
2	129.71	6140000	-12000	117667	8099		153766		162881		1180	104	2118	165766
3	129.72	6132000	6000	142441	6335	10874	159650		152881		1180	104	302	153650
4	129.73	6138000	30000	162103	6701		168804		137520		1180	104	0	138801
5	129.78	6168000	30000	161122	2672		163695		129[illegible]		1180	101	1211	132095
6	129.84	6204000	36000	163172	4715		169317		129[illegible]		1180	104	3033	133917
7	129.90	6232000	24000	151074	6241		157318		128[illegible]		1180	101	2132	133318
8	129.94	6261000	24000	151073	6241		157313		129[illegible]		1180	104	2135	133313
9	129.98	6286000	25000	151456	6257		157713		129[illegible]		1180	104	1829	132719
10	130.02	6313000	28000	151246	6218		157464		129[illegible]		1180	101	610	131191
SUM 1-10			133000	1520308	63261	10874	1591117	0	[illegible]	0	11800	1010	17295	1111117
11	130.06	6339000	28000	152421	6247		158718		129[illegible]		1180	104	1834	132718
12	130.10	6365000	32500	151682	6563	6121	164366		129[illegible]		1180	101	1285	132100
13	130.15	6397500	35500	193670	7373		198013		129[illegible]		1215	101	1827	132113
14	130.21	6435000	150500	207981	10392		208618		1215		1215	101	1832	132113
15	130.15	6391500	71500	1[illegible]	8193		203[illegible]		[illegible]		1215	101	1752	132153
16	130.23	6463000	29000	156868	8419		177138		[illegible]		1215	101	1577	132783
17	130.32	6492000	65000	151[illegible]	[illegible]		157[illegible]		[illegible]		1215	101	1220	62566
18	130.72	6557000	65000	151526	6173		157771		[illegible]		1215	101	1275	62371
19	[illegible]	[illegible]	[illegible]	1[illegible]	[illegible]		1[illegible]	[illegible]			1215	101	1135	17575
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]			1215	101	1659	18115
[illegible]			[illegible]	1675713	63[illegible]	6121	1731[illegible]	[illegible]	[illegible]		12[illegible]	1010	11[illegible]	1[illegible]33
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]			1215	101	[illegible]	[illegible]
22	[illegible]	[illegible]	[illegible]	112157	[illegible]	[illegible]	116[illegible]	[illegible]			1215	101	876	7292
23	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			1215	101	221	[illegible]
24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]				1211	[illegible]	[illegible]	1271
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]				1211	101	710	2[illegible]7
26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]				1211	101	1[illegible]	[illegible]
27	[illegible]	[illegible]	[illegible]	5[illegible]	[illegible]		[illegible]				1211	101	1376	2721
28	[illegible]	[illegible]	[illegible]	2[illegible]	[illegible]		[illegible]				1211	101	1221	5572
29	[illegible]	[illegible]	[illegible]	2[illegible]	[illegible]	[illegible]	[illegible]				1211	101	1[illegible]	2113
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]				1211	101	1172	2[illegible]
31	[illegible]	[illegible]	[illegible]	2[illegible]	[illegible]	[illegible]	[illegible]				1211	101	1175	2[illegible]
1/2	117.51	12215[illegible]												
SUM 21-31			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]	[illegible]	[illegible]	[illegible]
TOTAL 1-31			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	37506	3101	15298	[illegible]

[illegible] RESERVOIR IS [illegible] RELATIVE TO DAY BEFORE.

JORDAN VALLEY AUTHORITY KING TALAL DAM

RESERVOIR DATA				INFLOW DATA				OUTFLOW DATA					
DATE	RE.ELE	RE.VOL	CH.VOL	ZARQA	TRIBU.	RAIN-F.	TOTAL	EOT.O.T.	T.HOUSE	SPILL-W.	S.L.ABUT.	S.R.ABUT.	EVAPOR.	TOTAL
1	137.51	12215625	1125000	10-0105	39117	1311	1127361				1244	104	716	2061
2	138.71	13343625	150000	122871	16359	11211	152679				1244	104	1322	2670
3	139.13	13790625	334375	656583	27462	2517	686562				1241	104	839	2187
4	139.92	14475000	314775	303536	11303		317239				1244	101	1716	3061
5	140.23	14789775	271050	266390	12261		278651				1355	129	6117	7601
6	140.19	15060825	218925	210605	10302		220367				1355	129	3558	5042
7	140.70	15279750	203500	203550	12009		215552				1355	129	3303	5092
8	140.30	15482250	192075	161129	15847	19197	220173				1355	129	914	2398
9	141.09	15686625	177225	161027	15237		179264				1355	129	555	2039
10	141.26	15863850	187650	175343	15662		191005				1355	129	1871	3355
S.TOT 1-10			3933575	3003503	183129	31117	3217749	0	0	0	13105	1193	21216	37512
11	141.43	16051275	147750	177105	12378		189483				1355	129	2389	3873
12	141.62	16238625	187350	192543	13360		205903				1355	129	4786	6270
13	141.80	16426275	187650	177503	12311		189814				1610	105	141	2856
14	141.94	16613925	186750	182311	12429		194740				1610	106	1391	3107
15	142.11	16800675	186750	172311	12355		184666				1610	106	6919	10235
16	142.27	16987425	186750	171351	12611		183962				1610	106	5961	8177
17	142.41	17174175	186750	146156	[illegible]		[illegible]				1667	169	13631	37312
18	142.57	17360925	186750	172552	12551		[illegible]				1667	139	310	1916
19	[illegible]	17547675	186750	[illegible]	12111		[illegible]				1667	139	3117	[illegible]
20	[illegible]	17734425	186750	[illegible]	12[illegible]		[illegible]				1667	139	3171	[illegible]
T 11-20			1867500	[illegible]	[illegible]	[illegible]	[illegible]				[illegible]	[illegible]	[illegible]	[illegible]
21	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]				1725	171	1216	[illegible]
22	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]				1725	171	[illegible]	[illegible]
23	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]				1725	171	3.72	[illegible]
24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]				1725	171	5.17	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]				1725	171	8169	[illegible]
26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]				1725	171	371	[illegible]
27	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]				1725	171	1 99	[illegible]
28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]				725	171	466	[illegible]
S.TOT 21-31			577050	[illegible]	[illegible]	[illegible]	[illegible]			0	1200	1305	[illegible]	[illegible]
TOTAL 1-31			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		0	12721	1195	[illegible]	[illegible]

[illegible] BY [illegible] SPILLING [illegible]

BALANCE ERR. [illegible]
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JORDAN VALLEY AUTHORITY KING TALAL DAM

RESERVOIR DATA				INFLOW DATA				OUTFLOW DATA						
DATE	RE.LEVEL	RE.VOL	CHANGE	ZARQA	TRIBU.	RAIN-F.	TOTAL	BOT.O.L.	P.HOUSE	SPILL-W.	S.C.ABUT.	S.[illegible].ABUT.	EVAPOR.	TOTAL
1	111.18	18909000	105000	182315	15124		197739	90101			1725	171	1113	92739
2	111.28	19011000	12000	160300	11111		171114	10500	113400		1725	171	5343	129414
3	111.32	19056000	42000	146616	10193		156811		106200		1725	171	6715	111811
4	111.36	19098000	63000	145812	9970		155782		86100		1725	171	4436	92732
5	111.42	19161000	105000	159531	12751	13502	184937	60240	15200		1725	171	1501	79837
6	111.52	19266000	339000	339087	10176	1697	409960	5570			1725	171	3391	10960
7	111.90	19605000	346000	314817	36511		351328				1725	171	3462	5358
8	115.23	19911000	159500	179632	17419		196051				1725	171	4655	6551
9	115.41	20206000	168000	159769	12026		171795				1852	193	1750	3795
10	115.57	203[illegible]6000	157500	157582	11316		168598				1852	193	9353	[illegible]1398
S.TOT 1-10			1617000	1972131	176[illegible]92	15139	2164675	1[illegible]110	[illegible]19200	0	17504	1751	45107	517673
11	115.7[illegible]	[illegible]	157500	1[illegible]2775	[illegible]		[illegible]				1852	193	4656	6731
12	115.[illegible]7	20[illegible]	131000	1[illegible]	9146	1728	134906				1852	193	1761	3806
13	11[illegible].[illegible]97	[illegible]	11[illegible]227	128062	[illegible]		[illegible]	[illegible]			1852	193	[illegible]	19973
14	11[illegible].[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]		18[illegible]	193	7065	103460
15	116.12	[illegible]	25050	131327	[illegible]06		[illegible]		[illegible]00		1852	193	7068	117113
16	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		1852	208	15217	[illegible]
17	[illegible]	[illegible]	[illegible]	1[illegible]3	[illegible]		1132[illegible]		[illegible]		1872	193	9131	[illegible]
18	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]	203	11731	[illegible]
19	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]	[illegible]	[illegible]	[illegible]
S.TOT 11-20	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	7[illegible]	[illegible]
21	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]	203	[illegible]	[illegible]
22	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		1852	[illegible]	[illegible]	[illegible]
23	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]				1852	[illegible]	1857	[illegible]
24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]				[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]				[illegible]	[illegible]	[illegible]	[illegible]
26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]				[illegible]	[illegible]	[illegible]	[illegible]
27	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]				[illegible]	[illegible]	[illegible]	[illegible]
28	[illegible]	[illegible]	[illegible]	157802	[illegible]		171032				[illegible]	[illegible]	[illegible]	[illegible]
29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]			[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]			[illegible]	[illegible]	7[illegible]	[illegible]
31	[illegible]	[illegible]												
S.TOT 21-31			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0	[illegible]	2311	[illegible]	[illegible]
TOTAL 1-31			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0	[illegible]	[illegible]	[illegible]	[illegible]

NOTE: CHANGE IN VOLUME RELATING TO DAY BEFORE.

BALANCE FOR: MARCH [illegible]
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RESERVOIR DATA				INFLOW DATA				OUTFLOW DATA						
DATE	RE ELE	RE.VOL	CH.VOL	ZARQA	TRIBU.	RAIN-F.	TOTAL	SOT.O.L.	R.HOUSE	SPILL-W.	S.L.ABUT.	S.R.PUT.	EVAPOR.	TOTAL
1	142.64	[illegible]	-72975	[illegible]	[illegible]		[illegible]		154420		1900	[illegible]	[illegible]	131914
2	142.79	[illegible]	-83400	[illegible]	[illegible]		[illegible]		[illegible]		1900	[illegible]	[illegible]	[illegible]
3	142.81	[illegible]	-83400	[illegible]	[illegible]		[illegible]		[illegible]		1900	[illegible]	[illegible]	[illegible]
4	142.45	[illegible]	-83400	[illegible]	[illegible]		[illegible]		149840		1900	[illegible]	[illegible]	[illegible]
5	142.05	[illegible]	-72975	[illegible]	[illegible]		[illegible]		164160		1900	[illegible]	[illegible]	[illegible]
6	142.43	[illegible]	-83400	[illegible]	[illegible]		[illegible]		167340		1900	[illegible]	[illegible]	[illegible]
7	142.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]	[illegible]	[illegible]	[illegible]
8	142.02	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]	[illegible]	[illegible]	[illegible]
9	142.74	[illegible]	-83400	[illegible]	[illegible]		[illegible]		165840		1900	[illegible]	[illegible]	[illegible]
10	142.[illegible]	[illegible]	-83325	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]	[illegible]	[illegible]	[illegible]
TOTAL			875975	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
11	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]	[illegible]	[illegible]	[illegible]
12	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]	[illegible]	[illegible]	[illegible]
13	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]	[illegible]	[illegible]	[illegible]
14	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]	[illegible]	[illegible]	[illegible]
16	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]	[illegible]	[illegible]	[illegible]
17	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]	[illegible]	[illegible]	[illegible]
18	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]	[illegible]	[illegible]	[illegible]
19	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]	[illegible]	[illegible]	[illegible]
21	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]	[illegible]	[illegible]	[illegible]
22	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]	[illegible]	[illegible]	[illegible]
23	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]	[illegible]	[illegible]	[illegible]
24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]	[illegible]	[illegible]	[illegible]
26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]	[illegible]	[illegible]	[illegible]
27	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]	[illegible]	[illegible]	[illegible]
28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]	[illegible]	[illegible]	[illegible]
29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]	[illegible]	[illegible]	[illegible]
31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]	[illegible]	[illegible]	[illegible]
TOTAL			[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TOTAL			-2917750	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

NOTE:CHANGE IN VOLUME RELATING TO DAY BEFORE

BALANCE FOR [illegible] 1991
PREPARED BY [illegible]

JORDAN VALLEY AUTHORITY

KING TALAL DAM

RESERVOIR DATA				INFLOW DATA				OUTFLOW DATA						
DATE	FE. ELE	RE.VOL	CH.VOL	ZARQA	TRIBU.	RAINF.	TOTAL	BOT.O.L.	P.HOUSE	SPILL-W.	S.L.ABUT.	S.R.ABUT.	EVAPOR.	TOTAL
1	1?5.45	20042500	-126000	85924	7370		93294		202040		1945	230	14076	219094
2	[illegible]	20116500	-126000	84976	7440		94417		202040		1948	[illegible]	[illegible]	220487
[illegible]	[illegible]	[illegible]	[illegible]	78475	[illegible]		93575		202040		[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		1901	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]	249	[illegible]	[illegible]
[illegible]			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0	[illegible]	[illegible]	[illegible]	[illegible]
11	1??.33	19927500	-105000	88564	7605		96269		182304		1901	249	14815	201269
12	144.15	19822500	-105000	88581	7598		96179		180304		1901	249	16725	201177
13	1??.15	19877500	-105600	93477	7503		99980		182304		1901	249	15526	199980
14	14?.95	18772500	-104625	88713	7352		96065		182304		1901	249	12336	197690
15	142.95	18667875	-80400	90725	7783		98518		152216		1901	249	17550	181915
16	142.87	18594475	-81400	97072	8328		105401		167011		1901	249	19650	181800
17	142.79	18501075	-87400	90005	7892		97897		167011		1901	249	14106	182297
18	142.71	18417?75	-83400	90951	7801		98752		167011		1901	249	12991	182152
19	142.63	18334275	-83400	90898	7797		98695		167011		1901	249	12934	182095
20	142.55	18250875	83400	91333	7377		99710		167011		1901	249	13949	183110
TOT 11-20			-1000??5	903949	77537	0	981486	0	1726197	0	19010	2490	150824	1901511
21	142.47	18167475	-70475	101313	8690		110003		167011		1842	239	13687	182779
22	142.40	18094500	-72975	101263	8686		109949		167011		1842	239	13632	182724
23	142.33	18021525	-72975	103165	8849		112014		167011		1842	239	15897	184989
24	142.26	17948550	-72975	101162	8677		109839		167011		1842	239	13722	182814
25	142.19	17875575	-80400	91510	7849		99359		167011		1842	239	13668	182760
26	143.11	17792175	-80100	92417	7927		100344		167011		1842	239	14652	183744
27	142.03	17708775	-72975	101956	8745		110702		167011		1842	239	14585	183677
28	141.96	17635800	-72975	105775	9069		114793		167011		1842	239	12677	187769
29	141.89	17562825	-80400	92247	7913		100159		167011		1842	239	14468	183559
30	141.81	17479425	-83400	93122	7909		101121		167011		1842	239	15429	184521
31	141.73	17396025	-72975	101724	8726		110450		167011		1842	239	14333	183425
1/8	141.66	17323050												
TOT 21-31			-844125	1085514	93120	0	1178734	0	1837121	0	20262	2629	167151	2020159
TOTAL 1-31			-2919450	2559509	245278	0	2804787	0	549 329	0	58517	7360	417532	6?24037

THE CHANGE IN VOLUME RELATIVE TO DAY BEFORE

BALANCE FOR JULY 1991
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RESERVOIR DATA				INFLOW DATA				OUTFLOW DATA						
DATE	RE.ELE	RE.VOL	CH.VOL	ZARQA	TRIBU.	RAIN-F.	TOTAL	BOT.O.L.	P.HOUSE	SPILL-W.	S.L.ABUT.	S.R.ABUT.	EVAPOR.	TOTAL
1	134.26	9429750	771750	705240	68580	2849	776669				1750	320	2849	4919
2	135.24	10201500	330750	281365	38203	15461	335029				1750	320	2209	4279
3	135.66	10532250	14671500	13684075	967053	23564	14674692				1750	320	1122	3192
4	119.50	25203750	3503775	3241914	255993	6165	3507077				1750	320	1232	3302
5	152.03	28707525	609525	553023	56479		615502				1750	320	3907	5977
6	152.46	29317050	283500	257712	33120		290832				1750	320	5262	7332
7	152.66	29600550	269325	244552	32129		276681				1750	320	5296	7356
8	152.85	29869875	184275	168323	25986		194309				1750	320	7961	10031
9	152.98	30054150	198450	178675	27170		205845				1750	320	5325	7395
10	153.12	30252600	184275	165135	26553		191688				1750	320	5343	7413
S.TOT 1-10			21007125	19489011	1531271	48039	21068321	0	0	0	17500	3200	40199	61199
11	153.25	30136875	184275	165186	26557		191743				1785	325	5358	7168
12	153.28	30621150	1777850	1625010	135515	11555	1782110				1785	325	2150	4260
13	151.58	32399000	2111000	2187406	179759	55732	2122897				1785	325	2787	4897
14	156.14	34817000	465000	421362	14962		469324				1785	325	2214	4324
15	156.41	35282000	279000	252159	31139		283348				1785	325	2238	4348
16	156.62	35561000	248000	223284	29829		253113				1785	325	3003	5113
17	156.73	35809000	217000	195511	28127		223641				1785	325	4531	6641
18	156.92	36026000	186000	166766	25897		192663				1785	325	4553	6663
19	157.01	36212000	155000	136611	23557		160168				1785	325	3058	5168
20	157.14	36367000	124000	121273	21365		142638				1785	325	4583	6693
S.TOT 11-20			6099625	5511372	547040	67287	6125699	0	0	0	17850	3250	34180	55280
21	157.23	36491000	125000	122432	22550		144982				1812	334	3116	5262
22	157.32	36616000	103000	102379	22101		124480				1812	334	7391	9537
23	157.41	36719000	175000	155700	24201		179901				1812	334	7719	9865
24	157.52	36894000	180000	161876	21729	3613	187218				1812	334	2059	4205
25	157.61	37074000	201000	181417	25637		207054				1812	334	4065	6211
26	157.77	37313000	180000	160035	21929		181964				1812	334	5884	8030
27	157.94	37493000	160000	136275	23993	23347	183615				1812	334	1554	3700
28	158.21	37653000	277000	253292	25708		279000				1812	334	7259	9405
29	158.47	37930000	247000	224255	21224		245479				1812	334	3207	5353
30	158.71	38177000	234000	214051	19949	18876	253877				1812	334	1598	3744
31	158.94	38411000	273000	233267	39494		272761				1812	334	1712	3858
S.TOT 21-31			2627500	2360301	730231	16862	3096981	0	0	0	19932	3671	45578	69181
TOTAL 1-31			36701150	33860176	2807310	102188	36769213	0	0	0	55282	10121	120557	185963

NOTE:CHANGE IN VOLUME RELATING TO DAY BEFORE .

BALANCE FOR DEC. 1991
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RESERVOIR DATA				INFLOW DATA				OUTFLOW DATA						
DATE	RE.ELE	RE.VOL	CH.VOL	ZARQA	TRIBU.	RAIN-F.	TOTAL	BOT.O.L.	P.HOUSE	SPILL-W.	S.L.ABUT.	S.R.ABUT.	EVAPOR.	TOTAL
1	162.51	46134000	12680900	12130633	650509	41135	12[illegible]677				2150	550	1777	1777
2	168.73	59214900	1253100	1702001	126329	29153	1857783				2150	550	1683	4093
3	169.60	61008000	425000	401554	30069		432243				2150	550	3243	6243
4	169.90	61134000	319500	306673	23133		330116				2150	550	7515	13616
5	169.95	61313500	406200	391992	29424		414415				3017	826	4373	8215
6	170.11	62219700	• 406600	335384	29453		414837				3017	826	1391	8237
7	170.33	62625200	342400	323710	24740		348450				3017	826	2207	6050
8	170.49	62963700	342400	328800	25134		353994				3017	826	7751	11594
9	170.65	63311100	322400	311339	25794		335133				3017	825	8890	12733
10	170.81	63633500	319500	308803	23677		333430				3017	826	10037	13950
TOT 1-10			17819100	16645001	1137217	73378	17900129	0	0	0	27502	7156	51371	57023
11	170.95	63953100	235400	223493	17[illegible]3		215[illegible]				3017	826	6713	10555
12	171.06	64193500	214000	208629	15917		224[illegible]				3017	826	6731	10571
13	171.16	64102500	312400	[illegible]	24213	[illegible]	251[illegible]				3017	826	5621	9437
14	171.32	64744200	496600	370359	23017	16556	411[illegible]				3617	326	1513	3261
15	171.51	65151500	449400	[illegible]1702	21526	2941	4[illegible]371				3113	315	[illegible]	[illegible]371
16	171.72	[illegible]	[illegible]	257102	[illegible]	17124	[illegible]				3423	545	[illegible]	971[illegible]
17	171.90	[illegible]	35760	163241	17907	13323	[illegible]				3128	315	3443	757[illegible]
18	172.15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]				3165	913	[illegible]347	[illegible]
19	172.21	[illegible]	[illegible]	[illegible]	[illegible]	15723	[illegible]				[illegible]133	315	[illegible]511	9271
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	17[illegible]	[illegible]				[illegible]	313	[illegible]	[illegible]
[illegible]			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]				[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]				[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]				[illegible]	[illegible]	72[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]				[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]				[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]				31[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]				[illegible]	[illegible]	[illegible]1	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]				[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]				[illegible]3	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]				3168	913	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]				[illegible]	1073	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]277	[illegible]	50659	[illegible]				3567	1073	[illegible]	5621
1/2	[illegible]	[illegible]												
S.TOT 21-31			[illegible]67100	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TOTAL 1-31			[illegible]331700	[illegible]	[illegible]	[illegible]	[illegible]	0	0	[illegible]	120221	20731	191313	[illegible]

NOTE: CHANGE IN VOLUME RELATING TO DAY BEFORE .

BALANCE FOR JAN. 1992
PREPARED BY HYDROLOGY SECTION

Best Available Copy

JORDAN VALLEY AUTHORITY — KING TALAL DAM

RESERVOIR DATA				INFLOW DATA				OUTFLOW DATA						
DATE	RE.ELE	RE.VOL	CH.VOL	ZARQA	TRIBU.	RAIN-F.	TOTAL	BOT.O.L.	P.HOUSE	SPILL-W.	S.L.ABUT.	S.R.ABUT.	EVAPOR.	TOTAL
1	165.61	52597100	-232100	139519	16368		155886		362880		4460	1280	19066	387686
2	165.50	52365000	-232100	129032	15138		144170		383160		4460	1280	17370	376270
3	165.39	52132900	-211000	139113	16321		155434		341460		4460	1280	19234	366434
4	165.29	51921900	-211000	129741	15221		144962		336960		4370	1210	10422	353962
5	165.19	51710900	-168800	167422	19648		187170		336960		4370	1210	13380	355920
6	165.11	51542100	-189900	139918	16415		156333		325400		4370	1210	15253	346233
7	165.02	51352200	-189900	153629	18023		171652		336960		4370	1210	19012	361552
8	164.93	51162300	-189900	145560	17112		162672		323120		4370	1210	13972	342672
9	164.84	50972400	-189900	144104	16906		161010		328320		4370	1210	17010	351910
10	164.75	50782500	-168800	164651	19317		183968		328320		4370	1210	18858	352768
S.TOT 1-10			-1983400	1453035	170468	0	1623506	0	3378740	0	43970	12310	171856	3606876
11	164.67	50613900	-168800	167975	19707		187682		323120		4325	1195	22642	351482
12	164.59	50444900	-168900	158970	18630		177600		341280		4325	1195	20720	367520
13	164.50	50255900	-189900	149769	17571		167340		374300		4325	1195	16900	396720
14	164.41	50066000	-189900	144270	16927		161200		358400		4325	1195	16836	380756
15	164.32	49876100	-189900	148535	17128		165663		323320		4325	1195	18728	347568
16	164.23	49686200	-189900	148302	17465		165576		328320		4325	1195	22430	356270
17	164.14	49496300	-189900	146844	17224		164068		323320		4325	1195	14293	343133
18	164.05	49306400	-189900	148440	16621		165061		297180		4125	1195	26768	329268
19	163.97	49116500	-189900	144103	16401		160504		276480		4100	1170	26018	307768
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		277020		4100	1170	27830	310240
[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]	[illegible]	[illegible]	[illegible]
21	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		4100	1170	[illegible]	[illegible]
22	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		4100	1170	[illegible]	[illegible]
23	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]	[illegible]	[illegible]	[illegible]
24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		4100	1170	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]	[illegible]	[illegible]	[illegible]
S.TOT 21 [illegible]			[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		46670	[illegible]	[illegible]	[illegible]
TOTAL 1-30			-1313100	[illegible]	[illegible]	0	[illegible]		[illegible]	0	150340	[illegible]	[illegible]	[illegible]

NOTE:CHANGE IN VOLUME RELATING TO DAY BEFORE .

BALANCE FOR MAY 1994
PREPARED BY HYDROLOGY SECTION

JORDAN VALLEY AUTHORITY — KING TALAL DAM

RESERVOIR DATA				INFLOW DATA				OUTFLOW DATA					
DATE	RE.ELE	RE.VOL	CH.VOL	ZARQA	TRIBU.	RAIN-F.	TOTAL	BOT.O.L.	P.HOUSE	SPILL-W.	S.L.ABUT.	S.R.ABUT.	EVAPOR.	TOTAL
1	162.99	47079000	-189000	136228	15982		152210		319680		4210	1124	16196	341210
2	162.90	46890000	-189000	125798	15601	7180	148579		319680		4210	1124	12565	337579
3	162.81	46701000	-189000	140963	16538		157500		319680		4210	1124	21486	346500
4	162.72	46512000	-189000	140843	16524		157367		319680		4170	1085	21432	346367
5	162.63	46323000	-189000	135012	15839		150852		315000		4170	1085	19597	339852
6	162.54	46134000	-168000	145687	17092		162779		304000		4170	1085	21324	330779
7	162.46	45966000	-168000	145620	17084		162704		302400		4170	1085	23049	330704
8	162.38	45798000	-168000	142407	16707		159114		302400		4170	1085	19459	327114
9	162.30	45630000	-168000	140788	16517		157305		302400		4170	1085	17650	325305
10	162.22	45462000	-168000	140752	16513		157265		302400		4170	1085	17610	325265
S.TOT 1-10			-1785000	1394098	164396	7180	1565674	0	3107520	0	41820	10967	190367	3350674
11	162.14	45294000	-168000	148327	17401		165728		312660		4170	1085	15813	333728
12	162.06	45126000	-183000	145859	17112		162971		319680		4170	1085	21036	345971
13	161.97	44943000	-190000	157405	18466		175871		332640		4170	1085	27976	365871
14	161.87	44753000	-114000	154421	18117		172511		258660		4155	1060	22666	286511
15	161.81	44639000	57000	155302	19220		173522		80940		4155	1060	24367	116522
16	161.84	44696000	95000	150184	17619		167803		43200		4155	1060	24388	72603
17	161.89	44791000	76000	147908	17352		165260		68600		4155	1060	17445	89260
18	161.93	44867000	-38000	131279	15401		146680		162000		4155	1060	17465	184680
19	161.81	44829000	-228000	126567	14849		141416		345000		4155	1060	19201	369416
20	161.79	44601000	-247000	127653	14976		142629		361800		4155	1060	22614	389629
S.TOT 11-20			-940000	1444905	169514	0	1614420	0	2369160	0	41595	10675	212970	2554420
21	161.66	44354000	-247000	135512	15898		151410		367200		4155	1060	25995	398410
22	161.53	44107000	-209000	129623	15208		144836		321450		4155	1060	21171	353836
23	161.42	43898000	-152000	130195	15271		145470		267300		4155	1060	24955	297470
24	161.31	43746000	-190000	114920	13482		128402		294300		4155	1060	18587	318102
25	161.21	43556000	-190000	117057	13734		130790		291600		4155	1060	23975	320750
26	161.11	43366000	-190000	114244	13403		127647		285120		4155	1060	27312	317617
27	161.01	43176000	-190000	106556	12501		119057		285120		4155	1060	19722	309057
28	160.91	42986000	-190000	109523	12849		122371		285120		4140	1045	22069	312371
29	160.81	42796000	-190000	109173	12811		122322		285120		4140	1045	22017	312322
30	160.71	42606000	-190000	110914	13016		123959		285120		4140	1045	23654	313959
1/7	161.61	42416000												
S.TOT21-31			-1933000	1178059	138208	0	1316267	0	2811300	0	41505	10555	231757	3254267
TOTAL 1-30			-1663000	4017062	472118	7180	4496360	0	5413470	0	124920	32197	635093	9159360

NOTE:CHANGE IN VOLUME RELATING TO DAY BEFORE .

BALANCE FOR JUNE 1991
PREPARED BY HYDROLOGY SECTION

JORDAN VALLEY AUTHORITY — KING TALAL DAM

RESERVOIR DATA				INFLOW DATA				OUTFLOW DATA						
DATE	RE.ELE	RE.VOL	CH.VOL	ZARQA	TRIBU.	RAIN-F.	TOTAL	BOT.O.L.	P.HOUSE	SPILL-W.	S.L.ABUT.	S.R.ABUT.	EVAPOR.	TOTAL
1	160.64	42416000	-190000	107876	12656		120532		285120		4140	1045	20227	310532
2	160.54	42226000	-190000	112295	13174		125469		285120		4140	1045	25164	315469
3	160.44	42036000	-190000	112241	13168		125409		285120		4140	1045	25104	315409
4	160.34	41846000	-190000	110743	12992		123735		285120		4140	1045	23430	313735
5	160.24	41656000	-171000	101879	11952		113832		261360		4095	1011	18366	284832
6	160.15	41485000	-190000	103287	12117		115404		278640		4095	1011	21658	305404
7	160.05	41295000	-200000	100090	11742		111832		285120		4095	1011	21606	311832
8	159.94	41095000	-192500	105267	12350		117617		285120		4095	1011	19891	310117
9	159.83	40902500	-192500	106700	12518		119218		285120		4095	1011	21492	311718
10	159.72	40710000	-192500	105126	12333		117459		285120		4095	1011	19733	309959
S.TOT 1-10			-1898500	1065504	125003	0	1190507	0	2820960	0	41130	10246	216671	3089007
11	159.61	40517500	-245000	96420	11312		107732		327650		4095	1011	19666	352732
12	159.47	40272500	-332500	96257	11293		107549		412000		4095	1011	22943	440049
13	159.28	39940000	-157500	114570	13441		128012		259200		4095	1011	21206	285512
14	159.19	39782500	87500	112942	13250		126192		10800		4095	1011	22786	38692
15	159.24	39870000	-140000	99758	11703		111461		226800		4095	1011	19555	251461
16	159.16	39730000	-157500	114478	13430		127908		259200		4070	995	21143	285408
17	159.07	39572500	-157500	112984	13255		126239		259200		4070	995	19474	283739
18	158.98	39415000	-157500	111494	13080		124574		259200		4070	995	17809	282074
19	158.89	39257500	-192500	112984	13255		126239		294300		4070	995	19374	318739
20	158.78	39065000	-210000	104512	12261		116773		302400		4070	995	19308	326773
S.TOT 11-20			-1662500	1076398	126281	0	1202679	0	2611060	0	40825	10030	203264	2865179
21	158.66	38855000	-175000	103552	12149		115701		266400		4070	995	19236	290701
22	158.56	38680000	-157500	115548	13556		129104		259200		4053	979	22372	286604
23	158.47	38522500	-157500	114066	13382		127448		259200		4053	979	20716	284948
24	158.38	38365000	-157500	115435	13543		128978		259200		4053	979	22246	286478
25	158.27	38207500	-210000	104796	12295		117091		301500		4040	965	20586	327091
26	158.17	37997500	-175000	115727	13577		129304		277200		4040	965	22099	304304
27	158.07	37822500	-169000	104924	12310		117234		259200		4040	965	22029	286234
28	157.97	37653500	-186000	104767	12291		117059		280800		4040	965	17254	303059
29	157.85	37467500	-186000	109973	12902		122875		285120		4040	965	18750	308875
30	157.73	37281500	-186000	111302	13058		124360		285120		4040	965	20235	310360
31	157.61	37095500	-170500	101547	11913		113461		261900		4040	965	17056	283961
1/8	157.50	36925000												
S.TOT21-31			-1930000	1201638	140974	0	1342613	0	2994840	0	44509	10687	222577	3272613
TOTAL 1-30			-5491000	3343539	392259	0	3735798	0	8426860	0	126464	30963	642511	9226798

NOTE:CHANGE IN VOLUME RELATING TO DAY BEFORE .

BALANCE FOR JULY 1994
PREPARED BY HYDROLOGY SECTION

JORDAN VALLEY AUTHORITY — KING TALAL DAM

RESERVOIR DATA				INFLOW DATA				OUTFLOW DATA					
DATE	RE.ELE	RE.VOL	CH.VOL	ZARQA	TRIBU.	RAIN-F.	TOTAL	BOT.O.L.	P.HOUSE	SPILL-W.	S.L.ABUT.	S.R.ABUT.	EVAPOR.	TOTAL
1	157.50	36925000	-170500	101842	11948		113790		259200		4040	965	20085	284290
2	157.39	36754500	-186000	106343	12476		118819		281340		4040	965	18474	304819
3	157.27	36568500	-232500*	104930	12310		117240		329400		4040	965	15335	349740
4	157.12	36336000	-62000	120035	14082		134117		172800		4040	965	18312	196117
5	157.08	36274000	-124000	121695	14277		135972		238320		3950	938	16764	259972
6	157.00	36150000	-170500	121924	14304		136228		285120		3950	938	16720	306728
7	156.89	35979500	-170500	123237	14458		137695		285120		3950	938	18187	308195
8	156.78	35809000	-170500	124542	14611		139154		285120		3950	938	19646	309654
9	156.67	35638500	-170500	125840	14763		140603		285120		3950	938	21095	311103
10	156.56	35468000	-170500	127129	14915		142044		285120		3950	938	22536	312544
S.TOT 1-10			-1627500	1177517	138145	0	1315662	0	2706660	0	39860	9488	187154	2943162
11	156.45	35297500	-170500	125730	14750		140480		285120		3950	938	20972	310980
12	156.34	35127000	-170500	124338	14587		138925		285120		3950	938	19417	309425
13	156.23	34956500	-170500	124203	14571		138775		285120		3903	892	19360	309275
14	156.12	34786000	-139500	130994	15368		146362		260280		3903	892	20787	285862
15	156.03	34646500	-139500	129982	15249		145232		259200		3903	892	20737	284732
16	155.94	34507000	-170500	123102	14442		137544		284040		3903	892	19209	308044
17	155.83	34336500	-170500	125336	14704		140040		285120		3903	892	20625	310540
18	155.72	34166000	-170500	125280	14698		139978		285120		3903	892	20563	310478
19	155.61	33995500	-170500	123915	14537		138452		285120		3903	892	19037	308952
20	155.50	33825000	-170500	123864	14531		138395		285120		3903	892	18980	308895
S.TOT 11-20			-1643000	1256743	147439	0	1404182	0	2799360	0	39124	9012	199686	3047182
21	155.39	33654500	-170500	124963	14660		139623		285120		3785	840	20378	310123
22	155.28	33484000	-170500	124908	14654		139562		285120		3785	840	20317	310062
23	155.17	33313500	-170500	126148	14799		140947		285120		3785	840	21702	311447
24	155.06	33143000	-170500	124798	14641		139439		285120		3785	840	20194	309939
25	154.95	32972500	-186000	126978	14897		141875		301680		3785	840	21570	327875
26	154.83	32786500	-170500	132415	15535		147950		293760		3785	840	20065	318450
27	154.72	32616000	-170500	124627	14621		139248		285120		3785	840	20003	309748
28	154.61	32445500	-170500	124572	14615		139187		285120		3785	840	19942	309687
29	154.50	32275000	-170500	123246	14459		137705		285120		3785	840	18460	308205
30	154.39	32104500	-201500	117839	13825		131663		308880		3650	815	19818	333163
31	154.26	31903000	-201500	118444	13896		132340		311040		3650	815	18335	333840
1/9	154.13	31701500												
S.TOT21-31			-1953000	1368937	160602	0	1529539	0	3211200	0	41365	9190	220784	3482539
TOTAL 1-30			-5223500	3803198	446185	0	4249383	0	8717220	0	120349	27690	607624	9472883

NOTE:CHANGE IN VOLUME RELATING TO DAY BEFORE .

BALANCE FOR AUG. 1994
PREPARED BY HYDROLOGY SECTION

N VALLEY AUTHORITY — KING TALAL DAM

SERVOIR DATA			INFLOW DATA				OUTFLOW DATA						
RE.ELE	RE.VOL	CH.VOL	ZARQA	TRIBU.	RAIN-F.	TOTAL	BOT.O.L.	P.HOUSE	SPILL-W.	S.L.ABUT.	S.R.ABUT.	EVAPOR.	TOTAL
154.13	31701500	-201500	117126	13741		130867		311040		3650	815	16862	332367
154.00	31500000	-184275	122463	14367		136830		298440		3650	815	18200	321105
153.87	31315725	-184275	118068	13852		131919		293760		3510	792	18132	316194
153.74	31131450	-184275	118007	13844		131852		293760		3510	792	18065	316127
153.61	30947175	-184275	116708	13692		130400		293760		3510	792	16613	314675
153.48	30762900	-184275	116652	13685		130337		293760		3510	792	16550	314612
153.35	30578625	-155925	111038	13027		124065		259200		3510	792	16488	279990
153.24	30422700	-170100	120858	14179		135037		284400		3510	792	16435	305137
153.12	30252600	-184275	123009	14431		137440		302400		3510	792	15013	321715
152.99	30068325	-184275	122957	14425		137383		302400		3510	792	14956	321658
T 1-10		-1817450	1186887	139244	0	1326130	0	2932920	0	35380	7966	167314	3143580
152.86	29884050	-184275	124118	14561		138680		302400		3510	792	16253	322955
152.73	29699775	-184275	126478	14838		141316		302400		3510	792	18889	325591
152.60	29515500	-184275	125210	14689		139899		302400		3510	792	17472	324174
152.47	29331225	-198450	113533	13319		126852		302400		3418	741	18743	325302
152.33	29132775	-198450	111076	13031		124107		302400		3418	741	15998	322557
152.19	26934325	-212625	105579	12386		117965		310500		3418	741	15931	330590
152.04	28721700	-212625	107181	12574		119755		311040		3418	741	17181	332380
151.89	28509075	-184275	130129	15267		145396		311040		3418	741	14472	329671
151.76	28324800	-212625	104709	12284		116993		311040		3418	741	14419	329618
151.61	28112175	-212625	104646	12277		116922		311040		3418	741	14348	329547
T 11-20		-1984500	1152657	135228	0	1287885	0	3066660	0	34456	7563	163706	3272385
151.46	27899550	-212625	104586	12270		116856		311040		3418	741	14282	329481
151.31	27686925	-212625	104527	12263		116790		311040		3418	741	14216	329415
151.16	27474300	-212625	104402	12248		116650		311040		3382	703	14150	329275
151.01	27261675	-170100	106463	12190		118953		272160		3382	703	12808	289053
150.89	27091575	-155925	119103	13973		133076		272160		3382	703	12756	289001
150.78	26935650	-212625	105394	12365		117759		311040		3382	703	15259	330384
150.63	26723025	-255150	109071	12796		121867		357750		3382	703	15182	377017
150.45	26467675	-240975	106306	12172		118777		315600		3382	703	10067	359752
150.28	26226900	-212625	100040	11736		111776		307800		3382	703	12516	324401
150.13	26014275	-113400	95354	11187		106541		203400		3382	703	12456	219941
) 150.05	25900875		0	0		0							0
)T21-31		-1998675	1055247	123800	0	1179047	0	3003030	0	33892	7106	133694	3177722
AL 1-30		-5800625	3394791	398272	0	3793062	0	9002610	0	103728	22635	464714	9593687

:CHANGE IN VOLUME RELATING TO DAY BEFORE .

BALANCE FOR SEP. 1994
PREPARED BY HYDROLOGY SECTION

JORDAN VALLEY AUTHORITY — KING TALAL DAM

RESERVOIR DATA				INFLOW DATA				OUTFLOW DATA					
DATE	RE.ELE	RE.VOL	CH.VOL	ZARQA	TRIBU.	RAIN-F.	TOTAL	BOT.O.L.	P.HOUSE	SPILL-W.	S.L.ABUT.	S.R.ABUT.	EVAPOR.	TOTAL
1	150.05	19724999	-93333	126170	14802		140972		217800		3382	703	12420	234305
2	149.97	19631666	-221667	126772	14873		141645		345600		3382	703	13627	363312
3	149.78	19409999	-210000	137039	16077		153117		345600		3296	677	13543	363117
4	149.60	19199999	-210000	138064	16197		154262		345600		3296	677	14688	364262
5	149.42	18989999	-99323	172547	20243		192790		273600		3296	677	14539	292113
6	149.29	18890676	-110677	72440	8499		80938		172800		3296	677	14842	191615
7	149.24	18779999	-116667	118338	13883		132222		230400		3296	677	14515	248889
8	149.14	18663332	-213332	135963	15951		151914		345600		3296	677	15673	365246
9	148.95	18450000	-220000	165349	19398		184748		385200		3296	677	15574	404748
10	148.73	18230000	-200000	187257	21969		209225		388800		3188	588	16649	409225
S.TOT 1-10			-1694999	1379940	161892	0	1541832	0	3051000	0	33025	6736	146070	3236831
11	148.53	18030000	-200000	150708	17681		168389		352800		3188	588	11812	368389
12	148.33	17830000	-200000	143142	16793		159935		345600		3188	588	10559	359935
13	148.13	17630000	-120000	148949	17474		166423		272160		3188	588	10487	286423
14	148.01	17510000	-150000	155569	18251		173820		309600		3188	588	10444	323820
15	147.86	17360000	-50000	154283	18100		172383		211680		3188	588	6926	222383
16	147.81	17310000	-50000	152528	18202	2623	173354		216000		3188	588	3577	223354
17	147.76	17260000	80000	194464	23094	2381	219938		131400		3188	588	4762	139938
18	147.84	17340000	60000	179482	21057		200538		129600		3188	588	7162	140538
19	147.90	17400000	50000	171208	20086		191294		129600		3041	561	8092	141294
20	147.95	17450000	40000	163304	19159		182463		129600		3041	561	9261	142463
S.TOT 11-20			-540000	1613637	189896	5004	1808537	0	2226040	0	31588	5829	83081	2348537
21	147.99	17490000	-80000	152864	17934		170798		235600		3041	561	11596	250798
22	147.91	17410000	-50000	179289	21034		200322		234000		3041	561	12720	250322
23	147.86	17360000	-80000	152394	17879		170272		233972		3041	561	12698	250272
24	147.78	17280000	-80000	204070	23941		228012		295200		3011	561	9210	308012
25	147.70	17200000	-100000	168426	19760		188186		275100		3041	561	9184	288186
26	147.60	17100000	-100000	170337	19984		190321		279900		3011	546	6864	290321
27	147.50	17000000	-80000	171515	20122		191637		260100		3011	546	7980	271637
28	147.42	16920000	-130000	173252	20326		193578		313200		3011	546	6821	323578
29	147.29	16790000	-150000	142229	16686		158915		299700		3011	546	5658	308915
30	147.14	16640000	-120000	153144	17967		171111		280800		3011	546	6754	291111
31	147.02	16520000	-100000	182852	21452		204303		295142		3011	546	5604	304303
1/11	146.92	16420000												
S.TOT21-31			-1070000	1850373	217083	0	2067456	0	3003014	0	33273	6080	95089	3137456
TOTAL 1-30			-3304999	4843949	568872	5004	5417825	0	8282054	0	97886	18645	324239	8722821

NOTE:CHANGE IN VOLUME RELATING TO DAY BEFORE .

BALANCE FOR OCT. 1994
PREPARED BY HYDROLOGY SECTION

JORDAN VALLEY AUTHORITY — KING TALAL DAM

RESERVOIR DATA				INFLOW DATA				OUTFLOW DATA					
DATE	RE.ELE	RE.VOL	CH.VOL	ZARGA	TRIBU.	RAIN-F.	TOTAL	EQT.O.L.	P.HOUSE	SPILL-W.	S.L.ABUT.	S.R.ABUT.	EVAPOR.	TOTAL
1	146.92	16420000	-100000	174995	20530		195525		250800		3011	546	11168	295525
2	146.82	16320000	-100000	173963	20409		194372		250800		3011	546	10015	294372
3	146.72	16220000	7619154	6918473	813906	19071	7751446		124200		3011	546	4435	132192
4	153.44	23839254	1417759	1428475	167529	2066	1598370		172800		3120	558	4133	180611
5	154.55	25257013	692586	688810	82478	14220	785508		86400		3120	558	2844	92922
6	155.03	25949599	1796743	1590019	189914	25264	1804897		0		3120	558	4476	8154
7	156.30	27746342	1634741	1467094	172817	5968	1645879		0		3120	558	7460	11138
8	157.41	29381083	486005	447918	52549		500467		0		3120	558	10784	14462
9	157.74	29867088	250265	238517	27982		266499		0		3120	558	12456	16134
10	157.91	30117353	200057	222996	26161		249157	36929	0		3120	558	9393	49100
S.TOT 1-10			13897510	13051258	1574173	66890	14992120	36929	945000	0	30875	5544	77164	1094610
11	158.64	30317510	101050	238488	27744		266233	181200			3309	613	7860	192983
12	158.10	30418560	184950	262215	30682		292896	141075			3309	613	11025	158026
13	158.18	30603510	-191200	245832	28841		274673	268624			3309	613	8216	575873
14	157.12	30412310	84275	42896	5143		48039	39744			3309	613	4723	406091
15	158.17	[illegible]	123125	238279	[illegible]	[illegible]	[illegible]	[illegible]			3309	613	3157	235060
16	159.24	[illegible]	206875	1108748	124541	10074	1243	[illegible]			3309	613	216	597804
17	158.41	[illegible]	284375	224347	[illegible]		[illegible]				3309	613	4772	3644
18	[illegible]	[illegible]	206875	264502	[illegible]		[illegible]	[illegible]			3309	613	4002	8726
19	159.03	[illegible]	[illegible]	174090	[illegible]		[illegible]	[illegible]			[illegible]	574	4129	3889
20	[illegible]	[illegible]	[illegible]	166489	1563		[illegible]	[illegible]			[illegible]	574	2480	116521
S.TOT 11-20			[illegible]	3515613	416624	[illegible]	[illegible]	1174952	0	0	33247	6255	54265	2463720
21	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]			[illegible]	574	6576	46757
22	159.[illegible]	[illegible]	34275	291115	[illegible]		[illegible]	[illegible]		[illegible]	[illegible]	574	3156	[illegible]
23	159.[illegible]	[illegible]	[illegible]	273.6[illegible]	1.0555	[illegible]	[illegible]			[illegible]	[illegible]	574	5541	[illegible]
24	159.[illegible]	[illegible]	3172915	4009214	54[illegible]	[illegible]	[illegible]	[illegible]			[illegible]	574	5540	[illegible]
25	163.[illegible]	[illegible]	1374497	1241126	14560	[illegible]	[illegible]	[illegible]			[illegible]	[illegible]	[illegible]	117[illegible]
26	163.[illegible]	[illegible]	[illegible]	259241	[illegible]	[illegible]	282124	[illegible]			[illegible]	933	2555	4124
27	163.[illegible]	[illegible]	398835	345227	42082	1248	[illegible]	[illegible]			2525	933	0	1469
28	163.65	[illegible]	437499	392669	46119	2003	[illegible]	[illegible]			2525	933	2035	5492
29	163.85	[illegible]	416666	400026	48194	10087	[illegible]	[illegible]			2536	933	1852	42320
30	164.06	41291670	312499	736163	15860	1690	817713	[illegible]			2536	933	745	5214
31/12	164.45	42104169		0	0		0							0
S.TOT 21-31			10267909	9357687	1109542	96355	10567683	[illegible]	0	124000	24720	3294	43700	299134
TOTAL 1-31			25684169	26244557	3102394	163693	29564652	2499161	[illegible]	124000	98850	20094	175129	3862484

NOTE:[illegible] OF VOLUME RELATING TO DAY BEFORE

BALANCE FOR NOV. 1994

JORDAN VALLEY AUTHORITY — KING TALAL DAM

RESERVOIR DATA				INFLOW DATA				OUTFLOW DATA					
DATE	RE.ELE	RE.VOL	CH.VOL	ZARQA	TRIBU.	RAIN-F.	TOTAL	BOT.O.L.	P.HOUSE	SPILL-W.	S.L.ABUT.	S.R.ABUT.	EVAPOR.	TOTAL
1	164.45	41931937	338420	267289	36161	40940	344390				3535	933	1502	5970
2	164.62	42270357	1261776	1123765	133055	10366	1267186				3535	933	942	5410
3	165.23	43532133	3844732	3428052	404307	18181	3850540				3535	933	1340	5808
4	166.98	47376865	1164405	1046090	122962	2019	1171071				3629	1018	2019	6666
5	167.51	48541270	878796	796160	93404		889564				3629	1018	6121	10768
6	167.91	49420066	439398	402944	47273		450217				3629	1018	6172	10819
7	168.11	49859464	241669	227851	26731		254582				3629	1018	8266	12913
8	168.22	50101133	263639	245683	28823		274506				3629	1018	6220	10867
9	168.34	50364772	175759	234711	27536		262247			75600	3629	1018	6241	86488
10	168.42	50540531	87879	204402	23980		228382			129600	3629	1018	6256	140503
S.TOT 1-10			8696473	7976947	944232	71506	8992685	0	0	205200	36008	9925	45079	296212
11	168.46	50628410	0	154879	18163		172382			164160	3629	1018	4175	172982
12	168.46	50628410	0	157622	18492		176114			164160	3629	1018	7307	176114
13	168.46	50628410	0	158556	18601		177157			164160	3629	1018	8350	177157
14	168.46	50628410	43940	159429	18704		178133			123120	3750	1060	6263	134193
15	168.48	50672350	0	156834	18399		175233			164160	3750	1060	6263	175233
16	168.48	50672350	0	148964	17917	3760	170641			164160	3750	1060	1671	170641
17	168.48	50672350	285609	306679	36371	3342	346392			54720	3750	1060	1253	60783
18	168.61	50957959	571217	475687	60659	41358	577704				3750	1060	1677	6487
19	168.87	51529176	5164679	4605617	542906	22014	5170537				3750	1060	1048	5858
20	161.22	56693855	1275085	1148341	134722		1283063				3750	1060	3168	7978
S.TOT 11-20			7340530	7472547	884935	70474	8427956	0	0	998640	37137	10474	41175	1087426
21	171.80	57968940	373733	343055	40247		383302				3957	1106	4506	9569
22	171.97	58342673	373732	343117	40254		383371				3957	1106	4576	9639
23	172.14	58716405	307780	284108	33331		317439				3957	1106	4596	9659
24	172.28	59024185	197858	254319	29836		284155			72000	3957	1106	9234	86297
25	172.37	59222043	175874	261523	30681		292201			102000	3957	1106	9267	116330
26	172.45	59397917	195874	271924	31902		303326			93600	3957	1106	9289	107952
27	172.53	59593791	177859	262486	30794		293280			100800	4147	1166	9308	115421
28	172.32	59771650	43968	207325	24323		231648			172800	4147	1166	9567	187680
29	172.64	59815618	217854	216809	25136		241945			14400	4147	1166	4671	24387
30	172.73	60033476	221827	209569	24586		234155				4147	1166	7015	12328
31	172.81	60255303	219842	207806	24380		232186				4147	1166	7031	12344
1/1	172.91	60475145												
S.TOT21-31			2506205	2862041	335770	0	3197811	0	0	555600	11177	12166	79063	691606
TOTAL 1-30			18543208	18311535	2161937	141980	20618452	0	0	1759440	117622	32865	165317	2075241

NOTE:CHANGE IN VOLUME RELATING TO DAY BEFORE .

BALANCE FOR DEC. 1994
PREPARED BY HYDROLOGY SECTION

JORDAN VALLEY AUTHORITY — KING TALAL DAM

RESERVOIR DATA				INFLOW DATA				OUTFLOW DATA						
DATE	RE.ELE	RE.VOL	CH.VOL	ZARQA	TRIBU.	RAIN-F.	TOTAL	BOT.O.L.	P.HOUSE	SPILL-W.	S.L.ABUT.	S.R.ABUT.	EVAPOR.	TOTAL
1	172.94	60475145	217858	203956	23928		227884				4147	1166	4713	10026
2	173.03	60693003	177859	215388	25269		240657			50400	4147	1166	7085	62798
3	173.12	60870862	131905	208613	24474		233087			86400	4147	1166	9469	101182
4	173.18	61002767	21984	169492	19884		189376			154800	4250	1230	7112	167392
5	173.19	61024751	0	168051	19715		187766			172800	4250	1230	9486	187766
6	173.19	61024751	0	168051	19715		187766			172800	4250	1230	9486	187766
7	173.19	61024751	65954	158394	18583		176977			100800	4250	1230	4743	111023
8	173.22	61090705	175873	239114	28052		267166			76320	4250	1230	9493	91293
9	173.30	61266578	109921	188642	22131		210773			85860	4250	1230	9512	100852
10	173.35	61376499	131906	199791	23439		223230			76320	4250	1230	9524	91324
S.TOT 1-10			1033260	1919450	225192	0	2144682	0	0	976500	42191	12108	80623	1111422
11	173.41	61508405	131905	200129	23479		223608			76320	4465	1380	9538	91703
12	173.47	61640310	-109920	185084	21714		206798	225000		76320	4465	1380	9553	316718
13	173.42	61530390	131905	215074	25232		240306			95400	4465	1380	7156	108401
14	173.48	61662295	87937	197084	23122		220206			114480	4465	1380	11944	132269
15	173.52	61750232	87937	194955	22872		217827			114480	4465	1380	9565	129890
16	173.56	61838169	87936	192821	22621		215442			114480	4465	1380	7181	127506
17	173.60	61926105	153890	239876	29547	11980	281403			114480	4465	1380	7188	127513
18	173.67	62079995	241827	250820	30496	9121	290437			38160	4610	1520	4320	48610
19	173.78	62321822	129921	205556	24115		229671			86400	4610	1520	7220	99750
20	173.83	62451743	67937	181243	21263		202506			118800	4610	1520	9639	134569
S.TOT 11-20			1011275	2062642	241461	21101	2328204	225000	0	949320	45085	14220	83304	1316929
21	173.87	62519680	21985	189647	22249		211896			171720	4610	1520	12061	189911
22	173.88	62541665	109921	196049	23000		219049		57600	38160	4610	1520	7238	109128
23	173.93	62651586	109921	190044	22296		212340		86400		4740	1616	9663	102419
24	173.98	62761507	87938	176824	20745		197569		93600		4740	1616	9675	109631
25	174.02	62849445	87936	181664	21313		202977		99000		4740	1616	9685	115041
26	174.06	62937381	65963	164176	19261		183437		99000		4740	1616	12118	117474
27	174.09	63003344	65943	170051	19950		190001		108000		4740	1616	9702	124058
28	174.12	63069287	-87937	174102	20425		194528		266400		4740	1616	9709	282465
29	174.08	62981350	21984	190710	22374		213084		172620		4740	1616	12124	191100
30	174.09	63003334	65953	185118	21718		206836		122400		4740	1616	12127	140883
31	174.12	63069287	21984	188709	22139		210849		172800		4740	1616	9709	188865
1/2	174.13	63091271												
S.TOT21-31			571591	2007093	235469	0	2242562	0	1277820	209880	51877	17583	113811	1670971
TOTAL 1-30			2616126	5989225	705122	21101	6715448	225000	1277820	2135700	139153	43911	277738	4099322

NOTE:CHANGE IN VOLUME RELATING TO DAY BEFORE .

BALANCE FOR JAN. 1995
PREPARED BY HYDROLOGY SECTION

JORDAN VALLEY AUTHORITY — KING TALAL DAM

RESERVOIR DATA				INFLOW DATA				OUTFLOW DATA						
DATE	RE.ELE	RE.VOL	CH.VOL	ZARQA	TRIBU.	RAIN-F.	TOTAL	BOT.O.L.	P.HOUSE	SPILL-W.	S.L.ABUT.	S.R.ABUT.	EVAPOR.	TOTAL
1	174.13	63091271	21984	171552	20126		191679		151200		4740	1616	12139	169695
2	174.14	63113255	43969	179378	21044		200422		140400		4740	1616	9698	156453
3	174.16	63157224	43968	169730	19912		189642		129600		4740	1616	9718	145674
4	174.18	63201192	175874	236659	30616	24308	291584		104400		4772	1676	4862	115710
5	174.26	63377066	219843	266810	31588	2436	300833		64800		4772	1676	9742	80990
6	174.36	63596909	241826	233499	31118	31741	296357		43200		4772	1676	4883	54531
7	174.47	63838735	285795	278188	35222	22034	335443		43200		4772	1676	0	49648
8	174.60	64124530	1014370	898896	107186	14736	1020818				4772	1676	0	6448
9	175.06	65138900	549000	503794	59104		562899				4772	1676	7451	13899
10	175.30	65687900	261000	248309	29131		277440				4772	1676	9992	16440
S.TOT 1-10			2857629	3186815	385047	95254	3667117	0	676800	0	47622	16581	68485	809488
11	175.42	65948900	270000	256526	30095		286622				4851	1750	10021	16622
12	175.64	66218900	247500	259942	30496		290438		28800		4851	1750	7537	42938
13	175.65	66466400	202500	266726	31292		298018		81360		4851	1750	7557	95518
14	175.74	66668900	247500	443951	52084		496034		234360		4851	1750	7573	248534
15	175.85	66916400	630000	693788	82285	7593	783666		145800		4851	1750	1266	153666
16	176.13	67546400	225000	286098	33565		319663		84240		4851	1750	3822	94663
17	176.23	67771400	225000	273688	33514	11980	319182		79920		4851	1750	7661	94182
18	176.33	67996400	90000	193474	23768	9121	226364		122083		4851	1750	7679	136364
19	176.37	68086400	135000	231046	27106		258152		108864		4851	1750	7687	123152
20	176.43	68221400	112500	223058	26169		249227		122429		4851	1750	7697	136727
S.TOT 11-20			2385000	3128298	370373	28694	3527366	0	1007856	0	48514	17496	68500	1142366
21	176.48	68333900	67500	235916	27677		263593		181786		4851	1750	7706	196093
22	176.51	68401400	112500	186192	22417	4384	213493		89251		4851	1750	5141	100993
23	176.56	68513900	157500	274514	32236	257	307007		135043		1929	1810	7721	149507
24	176.63	68671400	90000	204699	24015		228714		121243		4929	1810	7732	138714
25	176.67	68761400	112500	224845	26378		251223		121213		4929	1810	7741	138723
26	176.72	68873900	90000	229997	26983		256980		151200		4929	1810	9041	166980
27	176.76	68963900	0	225543	26460		252003		231922		4929	1810	10342	252003
28	176.76	68963900	0	218274	25608		243881		226600		4929	1810	10342	243881
1/3	176.76	68963900												
S.TOT21-31			630000	1799980	211774	5142	2016895	0	1267488	0	39277	14360	65770	1386895
TOTAL 1-30			5872629	8115093	967195	129090	9211378	0	2952144	0	135413	48437	202755	3338749

NOTE:CHANGE IN VOLUME RELATING TO DAY BEFORE .

BALANCE FOR FEB. 1995
PREPARED BY HYDROLOGY SECTION

VALLEY AUTHORITY — KING TALAL DAM

RVOIR DATA			INFLOW DATA				OUTFLOW DATA					
.ELE	RE.VOL	CH.VOL	ZARQA	TRIBU.	RAIN-F.	TOTAL	BOT.O.L.	P.HOUSE	SPILL-W.	S.L.ABUT.	S.R.ABUT.	EVAPOR.	TOTAL
76.76	68963900	90000	298481	35017		333498		226800		4740	1616	10342	243498
76.80	69053900	112500	240988	28272		269260		140054		4740	1616	10350	156760
76.85	69166400	112500	217337	25498		242835		112320		4740	1616	11660	130335
76.90	69278900	-22500	174395	20460		194854		198029		4740	1616	12970	217354
76.89	69256400	0	235874	27672		263546		244080		4849	1650	12967	263546
76.89	69256400	135000	340845	39987		380833		228960		4849	1650	10374	245833
76.95	69391400	-22500	163551	19188		182739		188352		4849	1650	10388	205239
76.94	69368900	-67500	161784	18980		180764		231379		4849	1650	10386	248264
76.91	69301400	0	200229	23490		223719		206842		4849	1650	10378	223719
76.91	69301400	-67500	153046	17955		171001		221616		4849	1650	10386	238501
1-10		270000	2186528	256520	0	2443048	0	1998432	0	48051	16365	110200	2173048
76.88	69233900	-90000	195221	22903		218124		293846		4849	1650	7778	308124
76.84	69143900	-67500	204679	24013		228692		279331		4849	1650	10362	296192
76.81	69076400	-180000	183630	21543		205173		365731		4849	1650	12943	385173
76.73	68896400	-180000	217913	25565		243478		401414		4869	1693	15503	423478
76.65	68716400	-157500	237171	27946	1032	266148		406771		4869	1693	10316	423648
76.58	68558900	22500	315542	37019		352560		313200		4869	1693	10299	330060
76.59	68581400	22500	290465	36343	19316	346124		313200		4869	1693	3863	323624
76.60	68603900	0	273771	32118		305889		291600		4869	1693	7728	305889
76.60	68603900	0	246273	28892		275165		258300		4869	1693	10304	275165
76.60	68603900	0	251689	29528		281217		259200		4869	1693	15456	281217
11-20		-630000	2416354	285870	20348	2722572	0	3182594	0	48627	16799	104552	3352572
76.60	68603900	-45000	223647	26238		249884		275443		4869	1693	12880	294884
76.58	68558900	-112500	238910	28029		266938		360000		4869	1693	12877	379438
76.53	68446400	-135000	216480	25397		241877		360029		4869	1693	10287	376877
76.47	68311400	-112500	243698	28590		272288		365386		4869	1693	12841	384788
176.42	68198900	157500	482220	56573		538793		361843		4906	1718	12826	381293
176.49	68356400	112500	380303	45822	10278	436404		309571		4906	1718	7708	323904
176.54	68468900	45000	333125	39414	2830	375369		318600		4906	1718	5145	330369
176.56	68513900	-67500	236422	27737		264158		318600		4906	1718	6434	331658
176.53	68446400	-90000	243898	28611		272511		345600		4906	1718	10287	362511
176.49	68356400	-22500	243084	28518		271602		277200		4906	1718	10273	294102
176.48	68333900	-22500	248603	29166		277768		280800		4906	1718	12844	300268
176.47	68311400												
21-31		-292500	3090389	364097	13108	3467594	0	3573072	0	53815	18800	111407	3760094
1-30		-652500	7693271	906488	33456	8633214	0	8754098	0	150493	51964	329159	9285714

CHANGE IN VOLUME RELATING TO DAY BEFORE .

BALANCE FOR MAR. 1995
PREPARED BY HYDROLOGY SECTION

JORDAN VALLEY AUTHORITY — KING TALAL DAM

RESERVOIR DATA				INFLOW DATA				OUTFLOW DATA						
DATE	RE.ELE	RE.VOL	CH.VOL	ZARQA	TRIBU.	RAIN-F.	TOTAL	BOT.O.L.	P.HOUSE	SPILL-W.	S.L.ABUT.	S.R.ABUT.	EVAPOR.	TOTAL
1	178.88	81224100	-69000	278509	20641		299150		340650		6055	2315	19130	368150
2	178.85	81155100	-69000	285954	20864		306818	12600	333000		6055	2315	21848	375818
3	178.82	81086100	-69000	285941	20863		306804	12600	333000		6055	2315	21834	375804
4	178.79	81017100	-69000	285927	20862		306789		345600		6055	2315	21819	375789
5	178.76	80948100	-69000	350950	25202		376152		406800		6055	2315	29982	445152
6	178.73	80879100	-92000	301416	21992		323408		379800		6055	2315	27238	415408
7	178.69	80787100	-69000	288420	21043		309463		345600		6055	2315	24493	378463
8	178.66	80718100	-69000	289654	21134		310788		345600		6042	2310	25836	379768
9	178.63	80649100	-46000	315212	22636		337848		345600		6042	2310	29896	383848
10	178.61	80603100	-69000	292160	21316		313476		345600		6042	2310	28524	382476
S.TOT 1-10			-690000	2971143	216553	0	3190696	25200	3521250	0	60511	23135	250600	3880696
11	178.58	80534100	-69000	291189	20911		312100		345600		6042	2310	27148	381100
12	178.55	80465100	-92000	271661	20134		291795		345600		6042	2310	29843	383795
13	178.51	80373100	-92000	271637	20132		291769		345600		6042	2310	29817	383769
14	178.47	80281100	-92000	269091	19943		289034		345600		6042	2310	27082	381034
15	178.43	80189100	-92000	266549	19755		286304		345600		6042	2310	24352	378304
16	178.39	80097100	207000	530283	37428	8110	575821		345600		6042	2310	14869	368821
17	178.48	80304100	-46000	264069	19571		283640	48480	251155		6035	2300	21670	329640
18	178.46	80258100	0	320636	23025		343661	308250			6035	2300	27076	343661
19	178.46	80258100	69000	357440	25668		383108	281405			6035	2300	24368	314108
20	178.49	80327100	92000	268629	19909		288538	153100			6035	2300	29803	196538
S.TOT 11-20			-115000	3111181	226476	8110	3345770	796535	2324755	0	60392	23060	256028	3460770
21	178.53	80419100	46000	273666	20431		296097	216000			6035	2300	25762	250097
22	178.55	80465100	46000	271414	20338		291752	216000			6035	2300	24417	248752
23	178.57	80511100	46000	299883	21880		321763	213000			6035	2300	24428	275763
24	178.59	80557100	46000	276962	20527		297189	216000			6035	2300	27154	251189
25	178.61	80603100	23000	255519	18910		274183	216000			6028	2295	27166	251183
26	178.62	80626100	23000	255555	18940		274195	216000			6028	2295	27172	251495
27	178.63	80649100	0	236951	17986		256937	216000			6028	2295	32614	256937
28	178.63	80649100	0	236421	17795		254219	216000			6028	2295	29896	254219
29	178.63	80649100	0	238951	17986		256937	216000			6028	2295	32614	256937
30	178.63	80649100	-23000	255431	15935		271119	259200			6028	2295	29896	297119
1/7	178.62	80626100												
S.TOT 21-31			207000	2607839	193758	0	2801597	2230200	0	0	60308	22970	281119	2594597
TOTAL 1-31			-598000	8633166	636787	8110	9338063	3051935	5816005	0	131211	69165	787717	9936063

NOTE:CHANGE IN VOLUME RELATING TO DAY BEFORE .

BALANCE FOR JUNE 1992
PREPARED BY HYDROLOGY SECTION

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JORDAN VALLEY AUTHORITY — KING TALAL DAM

RESERVOIR DATA				INFLOW DATA				OUTFLOW DATA						
DATE	RE.ELE	RE.VOL	CH.VOL	ZARQA	TRIBU.	RAIN-F.	TOTAL	BOT.O.L.	P.HOUSE	SPILL-W.	S.L.ABUT.	S.R.ABUT.	EVAPOR.	TOTAL
1	178.62	80626100	-92000	188709	13986		202695	259200			6028	2295	27172	294695
2	178.58	80534100	-69000	210325	15346		225671	259200			6028	2295	27148	294671
3	178.55	80465100	-69000	210534	15119		225653	259200			6028	2295	27130	294653
4	178.52	80396100	-16000	204886	14949		219835	144000	86400		6028	2295	27112	265835
5	178.50	80350100	0	234491	16839		251330	72000	144000		5950	2280	27100	251330
6	178.50	80350100	0	244605	17565		262170		216000		5950	2280	37940	262170
7	178.50	80350100	0	237019	17021		254040		216000		5950	2280	29810	254040
8	178.50	80350100	-46000	230298	16538		246836	36000	216100		5950	2280	32506	292836
9	178.48	80304100	-69000	237100	17027		254127	7200	277920		5950	2280	29777	323127
10	178.45	80235100	-69000	239606	17206		256812		285120		5950	2280	32462	325812
S.TOT 1-10			-460000	2237573	161596	0	2399169	1036800	1441540	0	59812	22860	298157	2859169
11	178.42	80166100	-46000	240007	17511		257518		265680		5830	2264	29744	303518
12	178.40	80120100	-46000	254866	18302		273168		279840		5830	2264	32434	319168
13	178.38	80074100	-46000	258378	18554		276932	69120	216000	0	5830	2264	29718	322932
14	178.36	80028100	-46000	258364	18554		276918	69120	216000		5830	2264	29704	322918
15	178.34	79982100	-69000	241685	17634		259319	69120	216000		5830	2264	35105	328319
16	178.31	79913100	-69000	239148	17449		256597	69120	216000		5830	2264	32383	325597
17	178.28	79844100	-69000	236245	17634		253879	69120	216000		5830	2264	29665	322879
18	178.25	79775100	-69000	236410	17449		253859	69120	216000		5830	2264	29645	322859
19	178.22	79706100	-69000	236575	17264		253839	69120	216000		5830	2264	29625	322839
20	178.19	79637100	-92000	212139	15929		228128	69120	216000		5830	2264	26914	320128
S.TOT 11-20			-621000	2413877	176280	0	2590157	552960	2272320	0	58300	22640	304937	3211157
21	178.15	79545100	-92000	193506	14568		208074	3210	259200		5805	2250	29579	300071
22	178.11	79453100	-92000	187969	14152		202121		259200		5805	2250	26866	294121
23	178.07	79361100	-69000	196594	15003		211597		215700		5805	2250	26842	280597
24	178.04	79292100	-46000	210623	15856		226479		237600		5805	2250	26821	272479
25	178.02	79246100	-16000	210839	15628		226467		237600		5805	2250	26812	272467
26	178.00	79200100	-43800	210196	15779		225975		237600		5805	2250	21120	269775
27	177.98	79156300	-43800	212861	15778		228639		237600		5805	2250	26784	272439
28	177.96	79112500	-43800	215708	15592		231300		237600		5805	2250	29145	275100
29	177.94	79068700	-65700	201920	14992		216912		218130		5805	2250	29127	285612
30	177.91	79003000	-65700	206976	15340		222316		250560		5805	2250	29101	288016
31	177.88	78937300	-65700	206951	15338		222289		250560		5805	2250	29371	287989
1/8	177.85	78871600												
S.TOT 21-31			-673500	2257113	168026	0	2425169	3210	2701350	0	63855	21750	305471	3098669
TOTAL 1-31			-1751500	6908593	505902	0	7111195	1593000	6115210	0	181967	70250	908568	9168995

NOTE:CHANGE IN VOLUME RELATING TO DAY BEFORE .

BALANCE FOR JULY 1992
PREPARED BY HYDROLOGY SECTION

JORDAN VALLEY AUTHORITY — KING TALAL DAM

RESERVOIR DATA				INFLOW DATA				OUTFLOW DATA						
DATE	RE.ELE	RE.VOL	CH.VOL	ZARQA	TRIBU.	RAIN-F.	TOTAL	BOT.O.L.	P.HOUSE	SPILL-W.	S.L.ABUT.	S.R.ABUT.	EVAPOR.	TOTAL
1	177.85	78871600	-43800	225315	16180		241495		250560		5805	2250	26680	285295
2	177.83	78827800	-21900	231686	16372		248058		227240		5805	2250	34663	269958
3	177.82	78805900	-43800	225542	15938		241480		250560		5805	2250	26665	285280
4	177.80	78762100	-21900	227537	15818		243355		230560		5805	2250	26640	265255
5	177.79	78740200	-87600	229197	15933		245130	40500	254880		5805	2250	29295	332730
6	177.75	78652600	-87600	215015	15440		230455	43200	240200		5805	2250	26600	318055
7	177.71	78565000	-87600	226103	15977		242080	43200	249200		5805	2250	29225	329680
8	177.67	78477400	-65700	224725	15880		240605		269280		5678	2157	29190	306305
9	177.64	78411700	-65700	223355	15783		239138		267840		5678	2157	29163	304838
10	177.61	78346000	-65700	224567	15869		240436		267840		5678	2157	30461	306136
S.TOT 1-10			-591300	2253042	159190	0	2412232	126900	2508160	0	57669	22221	288582	3003532
11	177.58	78280300	-65700	223544	15541		239085		267840		5678	2157	29110	304785
12	177.55	78214600	-87600	213120	15795		228915		282240		5678	2157	26440	316515
13	177.51	78127000	-43800	219024	15980		235004		241920		5678	2157	29049	278804
14	177.49	78083200	-65700	227733	15832		243565		269760		5678	2157	31670	309265
15	177.46	78017500	-88300	212176	15481		227657		276480		5678	2157	31642	315957
16	177.42	77929200	-108800	197233	14618		211851		286480		5678	2157	26336	320651
17	177.37	77820400	-109500	198779	14962		213741		286480		5678	2157	28926	323241
18	177.32	77710900	-175200	199347	15005		214352		350210		5678	2157	31507	389552
19	177.24	77535700	-175200	195082	14684		209766		348320		5678	2157	28811	384966
20	177.16	77360500	-153300	194689	14654		209343		328320		5678	2157	26488	362643
S.TOT 11-20			-1073100	2080727	152552	0	2233279	0	2933050	0	56780	21570	289979	3306379
21	177.09	77207200	-153300	196938	14596		211534		328320		5678	2157	28679	364831
22	177.02	77053900	-153300	209766	15305		225071		344520		5678	2157	26016	378371
23	176.95	76900600	-153300	209391	15277		224668		315600		5593	2103	24672	377968
24	176.88	76747300	-153300	208144	15187		223331		315600		5593	2103	23335	376631
25	176.81	76594000	-153300	208109	15184		223293		345600		5593	2103	23297	376593
	176.74	76440700	-175200	202742	15026		217768		360720		5593	2103	24552	392968
27	176.66	76265500	-175200	206132	15040		221172		362880		5593	2103	25796	396372
28	176.58	76090300	-175200	206088	15036		221124		362880		5593	2103	25748	396324
29	176.50	75915100	-175200	206043	15033		221076		362850		5593	2103	25700	396276
30	176.42	75739900	-175200	203608	14855		218463		362880		5593	2103	23087	393663
31	176.34	75564700	-175200	203567	14853		218420		362880		5593	2103	23044	393620
1/9	176.26	75389500												
S.TOT 21-31			-1817700	2260528	165392	0	2425920	0	3884760	0	61693	23211	273926	4243620
TOTAL 1-31			-3182100	6594297	477131	0	7071131	126900	9330970	0	176142	67032	852487	10553531

NOTE:CHANGE IN VOLUME RELATING TO DAY BEFORE .

BALANCE FOR AUG. 1992
PREPARED BY HYDROLOGY SECTION

[redacted]DAN VALLEY AUTHORIT[redacted] [redacted]NG [redacted]L D[redacted]

RESERVOIR DATA				INFLOW DATA				OUTFLOW DATA						
DATE	RE.ELE	RE.VOL	CH.VOL	ZARQA	TRIBU.	RAIN-F.	TOTAL	BOT.O.L.	P.HOUSE	SPILL-W.	S.L.ABUT.	S.R.ABUT.	EVAPOR.	TOTAL
1	176.26	75389500	-175200	209475	15290		224765		362880		5593	2103	29389	399965
2	176.18	75214300	-175200	210602	15381		225986		362880		5593	2103	30610	401186
3	176.10	75039100	-175200	205823	15013		220836		362880		5593	2103	25460	396036
4	176.02	74863900	-173400	207359	15136		222495		362880		5530	2074	25412	395895
5	175.94	74690500	-151200	215948	15710		231687	349920			5530	2074	25364	382887
6	175.87	74539300	-151200	210681	15378		226059	315600			5530	2071	24056	377259
7	175.80	74388100	-151200	209459	15295		224753	345600			5530	2071	22750	375953
8	175.73	74236900	-151200	209420	15297		224717	345600			5530	2071	22714	375917
9	175.66	74085700	-151200	209400	15279		224680	345600			5530	2074	22676	375880
10	175.59	73934500	-129600	208525	15232		223757	320600			5530	2071	25154	353357
TOT 1-10			-1584600	2096693	153043	0	2249736	2052920	1451520	0	55486	20824	253586	3834336
11	175.53	73804900	-129600	207634	15167		222801	319680			5530	2074	25113	352401
12	175.47	73675300	-129600	206431	15020		221511	319680			5530	2074	23828	351111
13	175.41	73545700	-129600	209849	15330		225179	324980			5357	1901	22541	354779
14	175.35	73416100	-146300	213473	15593		229067	345600			5357	1901	22503	375367
15	175.28	73269800	-48100	197604	14425		212029	230400			5357	1901	22171	260129
16	175.26	73221700	-151200	208870	15248		224118	345600			5357	1901	22160	375318
17	175.19	73070500	-151200	208826	15251		224080	345600			5357	1901	22123	375280
18	175.12	72919300	-151200	206472	15083		221555	345600			5357	1901	19898	372755
19	175.05	72768100	-151200	208755	15250		224005	345600			5357	1901	22347	375205
20	174.98	72616900	-151200	206410	15078		221488	345600			5357	1901	19630	372688
TOT 11-20			-1339200	2074321	151598	0	2225833	3268480	0	0	53514	19334	223428	3565035
21	174.91	72465700	-172800	194686	14243		208932	360000			5270	1811	14548	361632
22	174.83	72292900	-172800	199845	14608		214453	362880			5270	1811	17289	367253
23	174.75	72120100	-177600	195159	14261		209420	362880			5270	1811	17255	367220
24	174.67	71942500	-187800	191978	14028		206006	347040			5270	1811	19682	374806
25	174.59	71771500	-151200	208353	15230		223583	315600			5270	1811	22694	371783
26	174.52	71623300	-129600	200666	14669		215331	319240			5270	1811	19620	341931
27	174.48	71493700	-129600	207609	15176		222786	325720			5270	1811	195-1	352326
28	174.40	71364100	-151200	205980	15057		221037	315000			5270	1811	19552	372237
29	174.33	71212900	-194400	204605	14956		219561	295160			5270	1811	11477	313961
30	174.24	71018500	-216000	206631	15105		221735	391700			5270	1811	.395J	137735
710	174.14	70802500												
TOT 21-31			-1663200	2015712	147337	0	2163049	3525060	0	0	52701	18111	230311	3826219
TOTAL 1-31			-4587000	6186730	451978	0	6638615	8846520	1451520	0	162101	58322	707352	11225618

NOTE:CHANGE IN VOLUME RELATING TO DAY BEFORE .

BALANCE FOR SEP. 1992
PREPARED BY HYDROLOGY SECTION

JORDAN VALLEY AUTHORITY . . . KING TALAL DAM

RESERVOIR DATA				INFLOW DATA				OUTFLOW DATA						
DATE	RE.ELE	RE.VOL	CH.VOL	ZARQA	TRIBU.	RAIN-F.	TOTAL	BOT.O.L.	P.HOUSE	SPILL-W.	S.L.ABUT.	S.R.ABUT.	EVAPOR.	TOTAL
1	174.14	70802500	-194400	205739	15173		220912	194400	194400		5270	1814	19427	415312
2	174.05	70608100	-151000	211388	15704		227092	154600	194400		5270	1814	21807	378092
3	173.99	70457100	-150500	206215	15320		221535	151200	194400		5270	1814	19350	372035
4	173.91	70306600	-193500	198839	14767		213606	186300	194400		5270	1814	19322	407106
5	173.82	70113100	-258000	223261	16587		239848	270000	194400		5206	1741	26501	497848
6	173.70	69855100	-222000	208479	15492		223971	255800	194400		5206	1741	28824	485971
7	173.58	69593100	-254000	218076	16202		234279	255800	194400		5206	1741	31132	488279
8	173.46	69339100	-258000	217815	16183		233998	262000	194400		5206	1741	28651	491958
9	173.34	69081100	-129000	216131	16058		232190	140800	194400		5206	1741	19043	361190
10	173.28	68952100	-150500	211335	15703		227038	154800	194400		5206	1741	21391	377538
S.TOT 1-10			-2000900	2117278	157190	0	2274468	2028900	1944000	0	52315	17703	235449	4275368
11	173.21	68801600	-107500	215953	16045		231998	110400	194400		5206	1741	27751	339498
12	173.16	68694100	-236500	217205	16138		233343	245400	194400		5206	1741	23096	469843
13	173.05	68457600	-279500	223964	16613		240577	295100	194400		5206	1741	23630	520077
14	172.92	68178100	-301000	221323	16428		237752	314000	194400		5132	1668	23552	533752
15	172.78	67877100	-301000	223430	16584		240014	314000	194400		5132	1668	25315	541014
16	172.64	67576100	-301000	216498	16071		232568	316000	194400		5132	1668	16369	533568
17	172.50	67275100	-236500	193600	14375		207975	215800	194400		5132	1668	17475	444475
18	172.39	67038600	-172000	189045	14563		203634	181200	194400		5132	1668	23234	375634
19	172.31	66866600	-129000	204945	15215		220160	129412	194400		5132	1668	18549	349160
20	172.25	66737600	-258000	206849	15356		222205	262600	194400		5132	1668	16205	480205
S.TOT 11-20			-2322000	2112812	157413	0	2270225	2264112	1944000	0	51542	16896	215576	4592225
21	172.13	66379600	-279500	203555	15099		218654	236315	194400		5132	1668	16155	453154
22	172.00	66200100	-278200	208997	15502		224500	230800	194400		5132	1668	20700	502700
23	171.87	66021900	-287200	200553	14877		215429	280100	194400		5132	1668	20630	502629
24	171.74	65834700	-269200	215119	15956		231075	290800	194400		5132	1668	18275	500275
25	171.61	65565500	-256800	223511	16764		240414	296310	194400		5011	1654	20469	502264
26	171.49	65308700	-256800	219969	16433		236402	460629	12150		5011	1654	11347	493122
27	171.37	65051900	-278200	210562	15635		226197			475100	5011	1654	20622	504397
28	171.24	64773700	-278200	195242	14554		209796			469640	5011	1654	18781	487996
29	171.11	64495500	-214000	210353	15656		226009			427156	5011	1654	17480	450510
30	171.01	64281500	-235400	206815	15244		222059			435200	5011	1654	15684	457459
31	170.45	63846100	-256800	206294	16031		222325			450200	5011	1654	22250	479125
1/11	170.78	63589300												
S.TOT 21-31			-2590200	2306479	171653	0	2478132	1567600	534150	2246695	55607	17617	197513	5618632
TOTAL 1-31			-7213200	6536569	486496	0	7023065	6257612	3872150	2246695	159464	52216	648678	14236225

NOTE:CHANGE IN VOLUME RELATING TO DAY BEFORE

BALANCE FOR OCT. 1992
PREPARED BY HYDROLOGY SECTION

JORDAN VALLEY AUTHORITY

KING TALAL DAM

RESERVOIR DATA				INFLOW DATA				OUTFLOW DATA					
DATE	RE.ELE	RE.VOL	CH.VOL	ZARQA	TRIBU.	RAIN-F.	TOTAL	BOT.O.L.	P.HOUSE	SPILL-W.	S.L.ABUT.	S.R.ABUT.	EVAPOR.	TOTAL
1	170.78	63589300	-256800	234363	17360		251723			475200	5011	1564	26748	508523
2	170.66	63332500	-256800	234296	17355		251651			475200	5011	1564	26676	508451
3	170.54	63075700	-278200	216369	16027		232396			475200	5011	1564	28821	510596
4	170.41	62797500	-278200	216290	16022		232312			475200	5011	1564	28737	510512
5	170.28	62519300	-278200	203899	15104		219003			475200	5011	1564	15428	497203
6	170.15	62241100	-278200	205860	15249		221109			475200	4864	1521	17724	499309
7	170.02	61962900	-277200	202529	15002		217531			475200	4864	1521	13146	494731
8	169.89	61685700	-276900	202760	15019		217779			475200	4864	1521	13094	494679
9	169.76	61408800	-276900	206756	15315		222071			475200	4864	1521	17386	498971
10	169.63	61131900	-276900	204673	15161		219834			475200	4864	1521	15149	496734
S.TOT 1-10			-2734300	2127795	157614	0	2285409	0	0	4752000	49375	15425	202909	5019709
11	169.50	60855000	-298200	184782	13688		198470			475200	4864	1521	15085	496670
12	169.36	60556800	-255600	220218	16312		236530			475200	4830	1374	10726	492130
13	169.24	60301200	-298200	180516	13372		193888			475200	4830	1374	10684	492088
14	169.10	60003000	-298200	180471	13368		193839			475200	4830	1374	10635	492039
15	168.96	59704800	-298200	182399	13511		195910			475200	4830	1374	12706	494110
16	168.82	59406600	-276900	202183	14976		217159			475200	4830	1374	12655	494059
17	168.69	59129700	-255600	202702	15015		217717			448200	4830	1374	18913	473317
18	168.57	58874100	-255600	185609	13749		199358			432000	4830	1374	16754	454958
19	168.45	58618500	-298200	186114	13786		199900	223200	172800	79200	4830	1374	16696	498100
20	168.31	58320300	-298200	184116	13638		197751	267840	207360		4830	1374	14550	495954
S.TOT 11-20			-2832900	1909110	141415	0	2050525	491040	380160	3810600	48334	13887	139404	4883425
21	168.17	58022100	-298200	169774	13695	15112	198581	276480	207360		4761	1348	6832	496781
22	168.03	57723900	42600	495044	36700	412	532156	267840	207360		4761	1348	8247	489556
23	168.05	57766500	191700	562073	46983	72205	681261	267840	207360		4761	1348	8252	489561
24	168.14	57958200	979800	1339766	127597		1467363	267840	207360		4761	1348	6254	487563
25	168.60	58938000	0	455921	33772		489693	267840	207360		4761	1348	8384	489693
26	168.60	58938000	-127800	336908	24985		361893	267810	207360		4761	1348	8384	189693
27	168.54	58810200	-213000	230669	52287		282956	267840	207360		4761	1348	14647	195956
28	168.41	58597200	-255600	183857	48111		231968	267840	207360		4761	1348	6259	487568
29	168.32	58341600	-234300	206785	46162		253217	267840	207360		4761	1348	6238	487517
30	168.21	58107300	-255600	187847	46152		233999	267810	207360		4761	1318	8290	189599
1/12	168.09	57851700												
S.TOT 21-31			-170400	4168644	476744	87729	4733117	2687040	2073600	0	47610	13480	81787	4903517
TOTAL 1-31			-5737600	8205519	775773	87729	9069051	3178080	2453760	8562600	145319	42792	424100	14806651

NOTE:CHANGE IN VOLUME RELATING TO DAY BEFORE .

BALANCE FOR NOV. 1992
PREPARED BY HYDROLOGY SECTION

JORDAN VALLEY AUTHORITY — KING TALAL DAM

RESERVOIR DATA				INFLOW DATA				OUTFLOW DATA						
DATE	RE.ELE	RE.VOL	CH.VOL	ZARQA	TRIBU.	RAIN-F.	TOTAL	BOT.O.L.	P.HOUSE	SPILL-W.	S.L.ABUT.	S.R.ABUT.	EVAPOR.	TOTAL
1	168.09	57851700	-234100	235929	17476		253405	267840	207360		4761	1348	6196	487505
2	167.98	57617600	-27600	558396	42278	12353	613027	267840	207360		4761	1348	4118	485427
3	168.04	57745200	-213000	253645	18789		272434	267840	207360		4761	1348	4125	485434
4	167.94	57532200	-211400	249695	18908	5556	274159	267840	207360		4761	1348	4250	485559
5	167.84	57320800	-233200	234547	17374		251921	267840	207360		4685	1291	3945	485121
6	167.73	57087600	-233200	234207	17349		251556	267840	207360		4685	1291	3580	484756
7	167.62	56854400	-84800	185835	14326	7566	207727	77760	207360		4685	1291	1431	292527
8	167.58	56769600	-63600	213709	15830		229539	77760	207360		4685	1291	2043	293139
9	167.55	56706000	0	278625	2[illegible]639		299264	77760	207360		4685	1291	8168	299264
10	167.55	56706000	106000	377315	27949		405264	77760	207360		4685	1291	8168	299264
S.TOT 1-10			-1039700	2821904	210917	25475	3058296	1916080	2073600	0	47154	13138	46024	4097996
11	167.60	56812000	106000	379173	28087		407260	77760	207360		4650	1270	10220	301260
12	167.65	56918000	106000	365566	27382	4092	397040	77760	207360		4650	1270	0	291040
13	167.70	57024000	42400	481889	36151	6141	524184	267480	207360		4650	1270	1024	481784
14	167.72	57066400	42400	474917	36105	12498	523520	267840	207360		4650	1270	0	481120
15	167.74	57108800	849400	1382773	108804	86083	1577660	627300	95040		4650	1270	0	728260
16	168.14	57958200	298200	1451675	109722	29578	1590975	1285200			4650	1270	1655	1292775
17	168.28	58256400	809400	1605804	120179	16614	1742597	925200			4650	1270	2077	933197
18	168.66	59065800	298200	519722	38498		558220	252000			4650	1270	2100	260020
19	168.80	59364000	191700	457836	33914		491750	291600			4650	1270	2530	300050
20	168.89	59555700	170400	331070	24524		355594	21060	119760		4650	1270	8454	185194
S.TOT 11-20			2914100	7450425	563366	155009	8168800	4093200	1074210	0	46500	12700	28060	5254700
21	168.97	59726100	340800	326746	24203		350949				4645	1268	4236	10149
22	169.13	60066900	-42600	305590	22794	2129	330513	202080	159120		4615	1268	0	373113
23	169.11	60024300	-468600	425885	33596	27660	487141	723060	221640		4645	1268	2128	955741
24	168.89	59555700	191700	986198	73302	3381	1062881	639360	221610		4615	1268	1268	871181
25	168.98	59747100	85200	120489	31524	5085	157098	156060	224610		4615	1268	5085	371894
26	169.02	59832600	191700	390758	29432	6576	426766	3210	224610		4645	1268	1273	235066
27	169.11	60024300	170400	378253	28019		406272		224610		4615	1268	5319	235872
28	169.19	60194700	149100	357443	26477		383920		224610		4645	1268	4267	234820
29	169.26	60343800	127800	336616	25083		363699		224610		4645	1268	5346	235899
30	169.32	60471600	63900	278933	20662		299595		224610		4645	1268	5142	235695
31	169.35	60535500	85200	299168	22161		321329		224610		4615	1268	5576	236129
1/1	169.39	60620700												
S.TOT 21-31			894600	4508079	337253	44831	4890163	1710000	2180880	0	51095	13948	39640	3995563
TOTAL 1-31			2769000	14780409	1111535	225315	16117259	7721280	5328720	0	144749	39786	113721	13348259

NOTE:CHANGE IN VOLUME RELATING TO DAY BEFORE .

BALANCE FOR DEC. 1992
PREPARED BY HYDROLOGY SECTION

JORDAN VALLEY AUTHORITY — KING TALAL DAM

RESERVOIR DATA				INFLOW DATA				OUTFLOW DATA						
DATE	RE.ELE	RE.VOL	CH.VOL	ZARQA	TRIBU.	RAIN-F.	TOTAL	BOT.O.L.	P.HOUSE	SPILL-W.	S.L.ABUT.	S.R.ABUT.	EVAPOR.	TOTAL
1	169.39	60620700	106700	324016	24001		348017		224640		4662	1278	10737	241317
2	169.44	60727400	85000	300825	22283		323108		224640		4662	1278	7528	238108
3	169.48	60812400	85200	297009	22001		319010		224640		4662	1278	3230	233810
4	169.52	60897600	106500	321864	23842		345706		224640		4662	1278	8626	239206
5	169.57	61004100	213000	303387	22473		325860		98280		4662	1278	8640	112860
6	169.67	61217100	298200	289168	21473		310641				4662	1278	6501	12441
7	169.81	61515300	276900	265286	19731	1088	286105				4662	1278	3265	9205
8	169.94	61792200	127900	477936	36297	12022	526305	387000			4662	1278	5465	398405
9	170.00	61920100	856000	1171463	89646	38763	1299872	432000			4675	1284	5913	443872
	170.40	62776100	1476600	2164454	162785	33150	2360389	871200			4675	1284	6630	883789
S.TOT 1-10			3632000	5915458	444532	85023	6445013	1690200	996840	0	46646	12792	66535	2813013
11	171.09	64252700	749000	1521543	112707		1634250	874800			4675	1284	4491	885250
12	171.44	65001700	406600	622948	46144		669092	252000	0		4675	1284	4533	262492
13	171.63	65408300	321000	507634	37603		545237		216000		4675	1284	2278	224237
14	171.78	65729300	171200	370303	27430		397733		216000		4675	1284	4574	226533
15	171.68	65900500	171200	374578	27747		402325		216000		4675	1284	9166	231125
16	171.94	66071700	214400	412679	30569		443248		216000		4675	1284	6889	228848
17	172.04	66286100	172000	375391	27807		403198		216000		4693	1295	9210	231198
18	172.12	66458100	172000	373261	27649		400910		216000		4693	1295	6922	228910
19	172.20	66630100	129000	341850	25322		367172		216000		4693	1295	16184	238172
20	172.26	66759100	107500	319700	23682		343382		216000		4693	1295	13894	235882
S.TOT 11-20			2613900	5219887	386660	0	5606547	1126800	1728000	0	46822	12884	78141	2992647
21	172.31	66866600	129000	335416	24846		360262		216000		4693	1295	9274	231262
22	172.37	66995600	129000	331106	24526		355632		216000		4693	1295	4644	226632
	172.43	67124600	193500	325806	24134		349940		145800		4693	1295	4652	156440
24	172.52	67318100	193500	310794	23022		333816		129600		4722	1330	4664	140316
25	172.61	67511600	193500	308628	22861		331489		129600		4722	1330	2337	137989
26	172.70	67705100	215000	333011	24667		357678		129600		4722	1330	7026	142678
27	172.80	67920100	215000	330841	24507		355348		129600		4722	1330	4696	140348
28	172.90	68135100	172000	314474	23294		337768		150300		4722	1330	9416	165768
29	172.98	68307100	215000	336352	24915		361267		129600		4722	1330	10615	146267
30	173.08	68522100	172000	292459	21664		314123		124200		4745	1354	11824	142123
31	173.16	68694100	258000	340187	27446	30331	397964		124500		4745	1354	4265	135964
1/2		68952100												
S.TOT 21-31			2085500	3559074	265882	30331	3855287	0	1629900	0	51901	14573	73413	1769787
TOTAL 1-31			8331400	14694419	1097074	115354	15906847	2817000	4354740	0	145369	40249	218089	7575447

NOTE:CHANGE IN VOLUME RELATING TO DAY BEFORE .

BALANCE FOR JAN. 1993
PREPARED BY HYDROLOGY SECTION

JORDAN VALLEY AUTHORITY — KING TALAL DAM

RESERVOIR DATA				INFLOW DATA				OUTFLOW DATA						
DATE	RE.ELE	RE.VOL	CH.VOL	ZARQA	TRIBU.	RAIN-F.	TOTAL	BOT.O.L.	P.HOUSE	SPILL-W.	S.L.ABUT.	S.R.ABUT.	EVAPOR.	TOTAL
1	173.28	68952100	666500	724469	187583	427824	1339875	463576	203700		4745	1354	0	673375
2	173.59	69618600	602000	822129	135980	13175	971284	186365	172800		4933	1560	3626	369284
3	173.87	70220600	538700	581844	96800	12785	691429	7950	135150		4933	1560	3136	152729
4	174.12	70759300	345600	418431	68117		486547		129600		4933	1560	4854	140947
5	174.28	71104900	345600	418447	68119		486567		129600		4933	1560	4874	140967
6	174.44	71450500	302400	381312	62074		443386		129600		4933	1560	4893	140986
7	174.58	71752900	280800	362750	59052		421803		129600		4933	1560	4910	141003
8	174.71	72033700	302400	381340	62079		443418		129600		4933	1560	4925	141018
9	174.85	72336100	518400	550163	91975	14826	656964		129600		4933	1560	2471	138564
10	175.09	72854500	367200	425127	70461	7705	503293		129600		4933	1560	0	136093
S.TOT 1-10			4269600	5066012	902239	476314	6444565	657891	1418850	0	49142	15394	33688	2174965
11	175.26	73221700	561600	595897	97819	4991	698708		129600		5081	1678	749	137108
12	175.52	73783300	367200	432468	71342	5776	509586		129600		5081	1678	6027	142386
13	175.69	74150500	280800	357799	59108	5295	422202		129600		5081	1678	5043	141402
14	175.82	74431300	324000	402181	65513	253	467947		129600		5081	1678	7588	143947
15	175.97	74755300	240000	330220	53757		383977		129600		5081	1678	7618	143977
16	176.08	74995300	219000	278118	45275		323393	79200	10800		5081	1678	7634	104393
17	176.18	75214300	262800	317093	51620		368713	86400			5081	1678	12754	105913
18	176.30	75477100	262800	313824	51088		364912	86400			5081	1678	8953	102112
19	176.42	75739900	262800	313037	50960		363997	86400			5352	1749	7696	101197
20	176.54	76002700	262800	313071	50965		364036	86400			5352	1749	7735	101236
S.TOT 11-20			3043800	3653710	597446	16315	4267470	424800	658800	0	51352	16922	71796	1223670
21	176.66	76265500	262800	314183	51146		365330	86400			5352	1749	9029	102530
22	176.78	76528300	153300	278085	45270		323355	153900			5352	1749	9054	170055
23	176.85	76681600	175200	312072	50802		362874	85860	86940		5352	1749	7773	187674
24	176.93	76856800	175200	316549	51531		368080	93024	79776		5352	1749	12979	192880
25	177.01	77032000	175200	316570	51535		368105	100800	72000		5352	1749	13004	192905
26	177.09	77207200	197100	276608	45029		321637	73800	30600		5352	1749	13036	124537
27	177.18	77404300	240900	308754	50262		359016	103500			5443	1330	7843	118116
28	177.29	77645200	197100	332897	54192		387089	159510	10590		5443	1330	13116	189989
1/3	177.38	77842300		0			0							0
			0	0			0							0
			0	0			0							0
S.TOT 21-31			1576800	2455718	399768	0	2855486	856794	279906	0	42998	13154	85834	1278686
TOTAL 1-31			8890200	11175439	1899453	492629	13567521	1939485	2357556	0	143492	45470	191318	4677321

NOTE:CHANGE IN VOLUME RELATING TO DAY BEFORE'.

BALANCE FOR FEB. 1993
PREPARED BY HYDROLOGY SECTION

JORDAN VALLEY AUTHORITY — KING TALAL DAM

RESERVOIR DATA				INFLOW DATA				OUTFLOW DATA						
DATE	RE ELE	RE.VOL	CH.VOL	ZARQA	IRIBU.	RAIN-F.	TOTAL	BOT.D L.	P.HOUSE	SPILL-W.	S L.ABUT.	S R.ABUT.	EVAPOR.	TOTAL
1	177.38	77642300	67600	298339	48567		346905	41850	194400		5443	1830	15782	259305
2	177.42	77929900	87600	335177	54564		389741	87300	194400		5443	1830	13168	302141
3	177.46	78017500	-65700	303919	49475		353394	201600	194400		5443	1830	15821	419094
4	177.43	77951800	-197100	260675	42435		303111	288000	194400		5443	1830	10538	500211
5	177.34	77754700	-21900	287529	47072	1576	336227	151200	194400		5443	1830	5254	358127
6	177.33	77732800	65700	322789	53608	6566	382913	111600	194400		5443	1830	3940	317213
7	177.36	77798500	65700	331864	54024		385888	108000	194400		5443	1830	10515	320188
8	177.39	77864200	21900	333619	54310		387929	151200	194400		5443	1830	13156	366029
9	177.40	77886100	0	293632	47801		341433	126600	194400		5443	1830	13160	341433
10	177.40	77886100	43800	279700	45533		325233	66600	194400		5443	1830	13160	281433
S.TOT 1-10			87600	3047243	497388	8142	3552774	1333950	1944000	0	54430	18300	114494	3465174
11	177.42	77929900	240900	386064	67907	31076	485047	67500	162000		5443	1830	7374	244147
12	177.53	78170800	262800	407638	66262		473300	22680	172620		5443	1830	7927	210500
13	177.65	78433600	153300	302057	49172		351229	100000	82700		5443	1830	7556	197529
14	177.72	78586900	109500	313456	51028		364484	55080	164320		5610	2001	7973	254984
15	177.77	78696400	65700	292826	47669		340496	64800	194400		5610	2001	7985	274796
16	177.80	78762100	65700	461162	75073		536235	259200	194400		5610	2001	9374	470525
17	177.83	78827800	65700	451597	74514	6133	532244	259200	194400		5610	2001	5333	466544
18	177.86	78893500	87600	492795	80222		573017	275400	194400		5610	2001	8006	485417
19	177.90	78981100	175200	275567	44860		320427	32400	97200		5610	2001	8016	145227
20	177.98	79156300	227800	277055	45102		322157	76632			5610	2001	10014	94357
S.TOT 11-20			1454200	3659617	601809	37209	4296636	1212292	1476440	0	55559	19497	80668	2844436
21	178.08	79354100	92000	299985	48835		348820	92300	136800		5610	2001	16109	256820
22	178.12	79476100	0	292644	47803		341447	145980	174420		5610	2001	13436	341447
23	178.12	79476100	69000	308366	50199		358565	53550	214650		5740	2189	13436	289565
24	178.15	79545100	138000	327848	53371		381219	14850	178650		5740	2189	14790	243219
25	178.21	79683100	115050	303057	49335		352392	1250	214650		5740	2189	13463	237292
26	178.26	79798150	46000	300236	48876		349111	8240	200160		5740	2189	10782	303111
27	178.28	79844100	-23000	289269	47090		336360	54150	286620		5740	2189	16161	355360
28	178.27	79821100	-115000	283286	46116		329402	50400	367200		5740	2189	15873	444402
29	178.22	79706150	-115000	267020	43468		310488	2250	378540		5740	2189	16159	425488
30	178.17	79591100	-161000	277075	45185		322160	1280	414420		5740	2189	13451	483180
31	178.10	79430100	-207000	279207	45452		324659	484380	25920		5740	2189	13430	531659
1/4	178.01	79223100												
S.TOT 21-31			-161000	3228993	525650	0	3754643	1052920	2616030	0	62850	23703	160110	3915613
TOTAL 1-31			1380800	9935854	1624847	45352	11606053	3599162	6036470	0	172969	61500	355212	10225253

NOTE-CHANGE IN VOLUME RELATING TO DAY BEFORE .

BALANCE FOR MARCH 1993
PREPARED BY-HYDROLOGY SECTION

JORDAN VALLEY AUTHORITY

KING TALAL DAM

RESERVOIR DATA				INFLOW DATA				OUTFLOW DATA						
DATE	RE.ELE	RE.VOL	CH.VOL	ZARQA	TRIBU.	RAIN-F.	TOTAL	BOT.O.L.	P.HOUSE	SPILL-W.	S.L.ABUT.	S.R.ABUT.	EVAPOR.	TOTAL
1	178.01	79223100	-198200	298328	48565		346893		518400		5740	2189	18764	545093
2	177.92	79024900	-153300	300545	48926		349471		478800		5740	2189	16042	502771
3	177.85	78871600	-109500	297936	48501		346437		432000		5740	2189	16008	455937
4	177.80	78762100	-21900	301238	49039		350277		345600		5740	2189	18648	372177
5	177.79	78740200	-43800	317261	51647		368908		388800		5740	2189	15979	412708
6	177.77	78696400	-43800	317253	51646		368899		388800		5740	2189	15970	412699
7	177.75	78652600	-87600	269705	43905		313610		379800		5983	2127	13300	401210
8	177.71	78565000	-87600	271976	44275		316251		379800		5983	2127	15941	403851
9	177.67	78477400	-153300	264219	43012		307232		436500		5983	2127	15922	460532
10	177.60	78324100	-87600	228542	37204		265746		326700		5983	2127	18536	353346
S.TOT 1-10			-986600	2867002	466721	0	3333723	0	4075200	0	58372	21642	165109	4320323
11	177.56	78236500	-109500	259224	42199		301424		384300		5983	2127	18514	410924
12	177.51	78127000	-109500	258528	42086		300614		388800		5983	2127	13204	410114
13	177.46	78017500	-219000	243180	39587		282768		475200		5983	2127	18458	501768
14	177.36	77798500	-219000	220625	35916		256540		446400		5983	2127	21030	475540
15	177.26	77579500	-153300	246267	40090		286357		410400		6226	2065	20966	439657
16	177.19	77426200	-219000	282159	45933		328092	34200	475200		6226	2065	29401	547092
17	177.09	77207200	-153300	296237	48225		344461	79200	381600		6226	2065	28670	497761
18	177.02	77053900	-175200	286125	46579		332704	14400	464400		6226	2065	20813	507904
19	176.94	76878700	-109500	286000	46558		332559		410400		6226	2065	23368	442059
20	176.89	76769200	-175200	282107	45924		328032	21150	450450		6226	2065	23341	503232
S.TOT 11-20			-1642500	2660453	433097	0	3093550	148950	4287150	0	61288	20898	217764	4736050
21	176.81	76594000	-153300	273740	44562		318302		442800		6075	2018	20709	471602
22	176.74	76440700	-153300	262001	42651		304653		426600		6075	2018	23260	457953
23	176.67	76287400	-175200	235162	38282		273445		421200		6075	2018	19352	448645
24	176.59	76112200	-175200	249504	40617		290121		439200		6075	2018	18028	465321
25	176.51	75937000	-109500	251579	40955		292534		388800		6075	2018	5141	402034
26	176.46	75827500	-131400	272100	44295		316396		432000		6075	2018	7703	447796
27	176.40	75696100	-65700	335875	54928	1538	392341		432000		6075	2018	17948	458041
28	176.37	75630400	-153300	264270	43021		307291		432000		6075	2018	20498	460591
29	176.30	75477100	-65700	265273	43184		308457		345600		6075	2018	20464	374157
30	176.27	75411400	-153300	258934	42152		301086		428400		6075	2018	17893	454386
1/5	176.20	75258100												
S.TOT 21-31			-1335900	2668439	434647	1538	3104625	0	4188600	0	60750	20180	170995	4440525
TOTAL 1-31			-3965000	8195894	1334466	1538	9531898	148950	12550950	0	180410	62720	553868	13496898

NOTE:CHANGE IN VOLUME RELATING TO DAY BEFORE .

BALANCE FOR APR.1993
PREPARED BY HYDROLOGY SECTION

JORDAN VALLEY AUTHORITY — KING TALAL DAM

RESERVOIR DATA				INFLOW DATA				OUTFLOW DATA						
DATE	RE.ELE	RE.VOL	CH.VOL	ZARQA	TRIBU.	RAIN-F.	TOTAL	BOT.O.L.	P.HOUSE	SPILL-W.	S.L.ABUT.	S.R.ABUT.	EVAPOR.	TOTAL
1	176.20	75258100	-131400	271296	44165		315461		415800		6075	2018	22968	446861
2	176.14	75126700	-153300	273202	44475		317677		437400		6075	2018	25484	470977
3	176.07	74973400	-153300	277810	45225		323035		442800		6075	2018	25442	476335
4	176.00	74820100	-129600	270292	44001		314293		410400		6075	2018	25400	443893
5	175.94	74690500	-64800	437349	73262	12691	523302		442800		6075	2018	7609	458502
6	175.97	74755300	-129600	220275	35859		256134		362700		5840	1965	15229	385734
7	175.91	74625700	-172800	235595	38353		273947		421200		5840	1965	17742	446747
8	175.83	74452900	-172800	264152	43001		307153		446850		5840	1965	25298	479953
9	175.75	74280100	-194400	241191	39264		280455		446850		5840	1965	20200	474855
10	175.66	74085700	-172800	255396	41576		296973		446850		5840	1965	15118	469773
S.TOT 1-10			-1735200	2746559	449180	12691	3208430	0	4273650	0	59575	19915	200490	4553630
11	175.58	73912900	-280800	241790	39566	1257	282614		535500		5840	1965	20109	563414
12	175.45	73632100	-194400	234322	38146		272468		436500		5840	1965	22563	466868
13	175.36	73437700	-108000	242021	39399		281419		359100		5840	1965	22514	389419
14	175.31	73329700	-129600	254946	41503		296448		396000		5618	1943	22487	426048
15	175.25	73200100	-129600	254918	41498		296416		396000		5618	1943	22455	426016
16	175.19	73070500	-129600	246853	40185		287038		388800		5618	1943	20277	416638
17	175.13	72940900	-129600	250810	40829		291639		388800		5618	1943	24878	421239
18	175.07	72811300	-129600	246506	40129		286635		388800		5618	1943	19874	416235
19	175.01	72681700	-129600	248614	40472		289086		388800		5618	1943	22325	418686
20	174.95	72552100	-86400	250717	40814		291531		345600		5618	1943	24770	377931
S.TOT 11-20			-1447200	2471496	402541	1257	2875294	0	4023900	0	56846	19496	222252	4322494
21	174.91	72465700	-129600	252675	41133		293809		338800		5466	1922	27221	423409
22	174.85	72336100	-108000	275467	44844		320311		388800		5466	1922	32123	428311
23	174.80	72228100	-108000	271189	44147		315336		388800		5466	1922	27148	423336
24	174.75	72120100	-108000	273280	44488		317768		388800		5466	1922	29580	425768
25	174.70	72012100	-108000	273250	44482		317732		388800		5466	1922	29544	425732
26	174.65	71904100	-108000	271104	44133		315237		388800		5466	1922	27049	423237
27	174.60	71796100	-86400	254498	41430		295928		345600		5356	1900	29472	382328
28	174.56	71709700	-108000	273049	44450		317499		388800		5356	1900	29443	425499
29	174.51	71601700	-108000	273018	44445		317463		388800		5356	1900	29407	425463
30	174.46	71493700	-108000	270882	44097		314980		388800		5356	1900	26924	422980
31	174.41	71385700	-108000	272956	44435		317391		388800		5356	1900	29335	425391
1/6	174.36	71277700												
S.TOT 21-31			-1188000	2961370	482084	0	3443454	0	4233600	0	59576	21032	317246	4631454
TOTAL 1-31			-3980400	8179425	1333805	13948	9527178	0	12531150	0	175997	60443	739988	13507578

NOTE:CHANGE IN VOLUME RELATING TO DAY BEFORE .

3.557

BALANCE FOR MAY.1993
PREPARED BY HYDROLOGY SECTION

JORDAN VALLEY AUTHORITY KING TALAL DAM

RESERVOIR DATA				INFLOW DATA				OUTFLOW DATA						
DATE	RE.ELE	RE.VOL	CH.VOL	ZARQA	TRIBU.	RAIN-F.	TOTAL	BOT.O.L.	P.HOUSE	SPILL-W.	S.L.ABUT.	S.R.ABUT.	EVAPOR.	TOTAL
1	167.64	56896800	+254400	145243	17951		163194		388800		4812	1485	22497	417594
2	167.52	56642400	-212000	162325	20062		182387		363600		4812	1485	24490	394387
3	167.42	56430400	-190800	165130	20409		185539		345600		4812	1485	24442	376339
4	167.33	56239600	-190800	166855	20622		187477		345600		4785	1460	26432	378277
5	167.24	56048800	-190800	163200	20171		183371		345600		4785	1460	22326	374171
6	167.15	55858000	-190800	161362	19943		181305		345600		4785	1460	20260	372105
7	167.06	55667200	-190800	159530	19717		179247		345600		4785	1460	18202	370047
8	166.97	55476400	21200	162538	20089		182627		135000		4785	1460	20182	161427
9	166.98	55497600	-169600	160941	19892		180833		324000		4785	1460	20188	350433
10	166.90	55328000	-190800	163458	20203		183661		345600		4785	1460	22616	374461
S.TOT 1-10			-1759600	1610582	199059	0	1809641	0	3285000	0	47931	14675	221635	3569241
11	166.81	55137200	-190800	164724	20359		185083		345600		4750	1430	24103	375883
12	166.72	54946400	-190800	188955	23354		212309		378900		4750	1430	18029	403109
13	166.63	54755600	-318000	158559	19597		178156		468000		4750	1430	21976	496156
14	166.48	54437600	-318000	163109	20159		183268		475200		4750	1430	19888	501268
15	166.33	54119600	-190800	162655	20103		182758		345600		4750	1430	21778	373558
16	166.24	53928800	-212000	164264	20302		184566		370800		4657	1365	19744	396566
17	166.14	53716800	-233200	161363	19943		181306		388800		4657	1365	19684	414506
18	166.03	53483600	-232400	161143	19916		181059		388800		4657	1365	18637	413459
19	165.92	53251200	-253200	175421	21681		197102		424800		4657	1365	19480	450302
20	165.80	52998000	-274300	161316	19938		181254		432000		4657	1365	17532	455554
S.TOT 11-20			-2413500	1661509	205352	0	1866861	0	4018500	0	47035	13975	200851	4280361
21	165.67	52723700	-316500	157362	19449		176811		468000		4596	1313	19402	493311
22	165.52	52407200	-232100	171638	21214		192852		397800		4596	1313	21243	424952
23	165.41	52175100	-232100	161851	20004		181855		388800		4596	1313	19246	413955
24	165.30	51943000	-232100	161792	19997		181789		388800		4596	1313	19180	413889
25	165.19	51710900	-232100	160378	19822		180200		388800		4596	1313	17591	412300
26	165.08	51478800	-232100	159980	19772		179752		388800		4596	1313	17143	411852
27	164.97	51246700	-232100	160333	19816		180149		388800		4850	1510	17089	412249
28	164.86	51014600	-232100	166706	20604		187310		396000		4850	1510	17050	419410
29	164.75	50782500	-316500	161464	20580		182044		475200		4850	1510	16984	498544
30	164.60	50466000	-274300	153396	20184		173780		424800		4850	1510	16920	448080
1/10	164.47	50191700												
S.TOT21-30			-2532000	1615100	201442	0	1816542	0	4105800	0	46976	13918	181848	4348542
TOTAL 1-30			-6705100	4887191	605853	0	5493044	0	11409300	0	141942	42568	604334	12198144

JORDAN VALLEY AUTHORITY — KING TALAL DAM

RESERVOIR DATA				INFLOW DATA				OUTFLOW DATA						
DATE	RE.ELE	RE.VOL	CH.VOL	ZARQA	TRIBU.	RAIN-F.	TOTAL	BOT.O.L.	P.HOUSE	SPILL-W.	S.L.ABUT.	S.R.ABUT.	EVAPOR.	TOTAL
1	164.47	50191700	-232100	159747	19744		179491		388800		4569	1313	16909	411591
2	164.36	49959600	-232100	158044	19533		177577		388800		4569	1313	14995	409677
3	164.25	49727500	-232100	156276	19314		175590		388800		4544	1287	13059	407690
4	164.14	49495400	-232100	156248	19311		175559		388800		4544	1287	13028	407659
5	164.03	49263300	-252300	159103	19664		178767		410400		4544	1287	14836	431067
6	163.91	49011000	-294000	169580	20959		190539		464400		4544	1287	14308	484539
7	163.77	48717000	-294000	168295	20800		189095		464400		4544	1287	12864	483095
8	163.63	48423000	-252000	170387	21058		191445		424800		4544	1287	12814	443445
9	163.51	48171000	-231000	160242	19805		180047		388800		4544	1287	16416	411047
10	163.40	47940000	-231000	160192	19798		179990		388800		4544	1287	16359	410990
S.TOT 1-10			-2482700	1618114	199986	0	1818100	0	4096800	0	45490	12922	145588	4300800
11	163.29	47709000	-231000	158478	19587		178065		388800		4518	1261	14486	409065
12	163.18	47478000	-210000	177126	21891		199017		388800		4518	1261	14438	409017
13	163.08	47268000	-210000	178686	22084		200770		388800		4518	1261	16191	410770
14	162.98	47058000	-231000	202402	25015		227417		435600		4518	1261	17038	458417
15	162.87	46827000	-178800	206369	25506		231875		388800		4518	1261	16096	410675
16	162.77	46648200	-241200	150360	19070		169430		388800		4518	1261	16051	410630
17	162.67	46407000	-210000	176312	22495		198807		388800		4518	1261	14228	408807
18	162.57	46197000	-231000	181905	22624		204529		412020		4518	1261	17730	435529
19	162.46	45966000	-210000	181554	22473		204027		388800		4518	1261	19448	414027
20	162.36	45756000	-252000	182771	22390		205161		432000		4518	1261	19382	457161
S.TOT 11-20			-2205000	1795963	223135	0	2019098	0	4001220	0	45180	12610	165088	4224098
21	162.24	45504000	-293000	144187	18074		162261		432000		4450	1261	17550	455261
22	162.10	45211000	-306000	130549	16846		147395		432000		4450	1218	15727	453395
23	161.95	44905000	-228000	168130	21247		189377		396000		4450	1218	15709	417377
24	161.83	44677000	-209000	178604	22537		201141		388800		4450	1218	15673	410141
25	161.72	44468000	-209000	179184	22363		201547		388800		4450	1218	16079	410547
26	161.61	44259000	-209000	178729	22313		201042		388800		4450	1218	15574	410042
27	161.50	44050000	-247000	191311	23721		215032		439200		4390	1192	17250	462032
28	161.37	43803000	-247000	181405	22925		204330		432000		4390	1192	13748	451330
29	161.24	43556000	-209000	176733	22345		199078		388800		4390	1192	13696	408078
30	161.13	43347000	-190000	193606	24428		218034		388800		4390	1192	13652	408034
31	161.03	43157000	-190000	181145	24428	3913	209486		388800		4390	1192	5104	399486
1	160.93	42967000												
S.TOT21-31			-2537000	1903583	241227	3913	2148723	0	4464000	0	48650	13311	159762	4685723
TOTAL 1-30			-7224700	5317660	664348	3913	5985921	0	12562020	0	139320	38843	470438	13210621

NOTE:CHANGE IN VOLUME RELATING TO DAY BEFORE .

BALANCE FOR OCT. 1993
PREPARED BY HYDROLOGY SECTION

Best Available Copy

JORDAN VALLEY AUTHORITY — KING TALAL DAM

RESERVOIR DATA				INFLOW DATA				OUTFLOW DATA						
DATE	RE.ELE	RE.VOL	CH.VOL	ZAROA	TRIBU.	RAIN-F.	TOTAL	BOT.O.L.	P.HOUSE	SPILL-W.	S.L.ABUT.	S.R.ABUT.	EVAPOR.	TOTAL
1	160.93	42967000	226000	567636	70324	1358	639318		388800		4363	1183	16972	411318
2	161.05	43195000	133000	476914	58944		535858		388800		4363	1183	8512	402358
3	161.12	43328000	0	340067	41030		381097		388800		4363	1183	10251	385097
4	161.12	43328000	-39000	286392	35384		321676		345600		4363	1183	5530	356676
5	161.10	43290000	-19000	279083	34493		313576		316800		4363	1183	10230	332576
6	161.09	43271000	38000	263873	32613		296486		237600		4363	1183	15340	258486
7	161.11	43309000	57000	282009	34892		317201		237600		4363	1183	17055	260201
8	161.14	43366000	-76000	250544	30965		281509		336800		4363	1183	15363	357509
9	161.10	43290000	-171000	210918	26068		236986		388800		4363	1183	12640	407786
10	161.01	43119000	-209000	170638	21510	2401	195549		388800		4363	1183	10203	404549
S.TOT 1-10			-57000	3128273	387224	4759	3520256	0	3395700	0	43630	11830	126096	3577256
11	160.90	42910000	-38000	291515	36042		327557		348300		4340	1145	11872	365657
12	160.88	42872000	-38000	290716	35931		326647		345600		4340	1145	13562	364647
13	160.86	42834000	-19000	236337	29198		265535		263700		4340	1145	15250	284435
14	160.85	42815000	-76000	212608	26349	5229	244186		222400		4340	1145	12201	234086
15	160.81	42739000	-76000	252001	31376	1661	285139		243600		4340	1145	10154	261239
16	160.77	42663000	-95000	236444	29288		265724		245600		4340	1145	10144	261224
17	160.72	42568000	-114000	220135	27193		247327		245600		4340	1145	10132	261217
18	160.65	42454000	-76000	184445	22856		207301		183600		4340	1145	10118	203203
19	160.62	42378000	-76000	176427	21867		198294		264300		4340	1145	10139	274794
20	160.58	42302000	-57000	161150	19961		181109		256500		4340	1145	10134	272029
S.TOT 11-20			-703000	2266276	281244	6890	2554410	0	2514000	0	43390	11457	113124	2681971
21	160.55	42207000	-133000	154150	19110		173260		248400		4339	1144	10837	263720
22	160.46	42074000	-152000	137513	17049		154562		237600		4339	1144	10415	253498
23	160.36	41922000	-152000	131661	16325		147986		237600		4339	1144	11126	253214
24	160.20	41770000	-114000	259717	32200		291917		248400		4339	1144	11104	264987
25	[illegible]	[illegible]	-209000	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]	[illegible]	[illegible]	[illegible]
26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]	[illegible]	[illegible]	[illegible]
27	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]	[illegible]	[illegible]	[illegible]
28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]	[illegible]	[illegible]	[illegible]
29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]	[illegible]	[illegible]	[illegible]
S.TOT 21-30			-1287000	2121872	263136	0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	6540	31407	[illegible]
TOTAL 1-30			-2047000	7516423	932202	11650	[illegible]	[illegible]	[illegible]	0	129539	33729	273127	[illegible]

NOTE: CHANGE IN VOLUME RELATING TO DAY BEFORE.

BALANCE FOR NOV. 1993
PREPARED BY HYDROLOGY SECTION

Best Available Copy

JORDAN VALLEY AUTHORITY — KING TALAL DAM

RESERVOIR DATA				INFLOW DATA				OUTFLOW DATA					
DATE	RE.ELE	RE.VOL	CH.VOL	ZARGA	TRIBU.	RAIN-F.	TOTAL	BOT.O.L.	P.HOUSE	SPILL-W.	S.L.ABUT.	S.R.ABUT.	EVAPOR.	TOTAL
1	174.36	71277700	-108000	282446	34939		317255		388800		5356	1900	29299	425355
2	174.31	71169700	-108000	284584	35173		319758		388800		5356	1900	31702	427758
3	174.26	71061700	-64800	282382	34901		317283		345600		5356	1900	29227	382083
4	174.23	70996900	-108000	282363	34899		317262		388800		5356	1900	29206	425262
5	174.18	70888900	-108000	282040	34659		316699		388800		5227	1810	29062	424899
6	174.13	70780900	-216000	282104	34867		316971		496800		5227	1810	29134	532971
7	174.03	70564900	-107800	282216	34851		317099		388800		5227	1810	29062	424899
8	173.98	70457100	-107500	280300	34644		314944		388800		5227	1810	26607	422444
9	173.93	70349600	-107500	280271	34640		314911		388800		5227	1810	26574	422411
10	173.88	70242100	-64500	280063	34615		314678		345600		5227	1810	26541	379178
S.TOT 1-10			-1100100	2818771	348087	0	3167158	0	3909600	0	52786	18460	286412	4267258
11	173.85	70177600	-193500	278433	34413		312846		475200		5227	1810	24111	506348
12	173.76	69984100	-172000	277224	34265		311499		450000		5227	1810	26462	483499
13	173.68	69812100	-64500	279543	34587		314430		345600		5183	1740	26409	378932
14	173.65	69747600	-107500	284279	35135		319413		396000		5183	1740	23990	426913
15	173.60	69640100	-107500	279975	34604		314579		388800		5183	1740	26356	422079
16	173.55	69532600	-107500	277843	34340		312183		388800		5183	1740	25960	419683
17	173.50	69425100	-64500	279733	34574		314313		345600		5183	1740	26290	378813
18	173.47	69360600	-107500	277771	34331		312102		388800		5183	1740	23881	419605
19	173.42	69253100	-107500	279676	34571		314247		388800		5183	1740	26217	421960
20	173.37	69145600	66000	275640	34071		309711		345600		5183	1740	22822	375345
S.TOT 11-20			-1116000	2775354	342[illegible]	0	3118[illegible]	0	3910200	0	51918	17540	251519	4230177
21	173.31	69285600	-107500	277391	34268		311660		388800		5183	1740	26178	421901
22	173.26	69178100	-107500	282021	35072		317093		388800		5112	1706	28898	424516
23	173.23	69344600	-64500	281594	34623		316217		345600		5112	1706	26416	380254
24	173.23	69280100	-64500	283641	35063		318704		345600		5112	1706	30336	382754
25	173.17	69215600	-107500	[illegible]	[illegible]		[illegible]		388800		5112	1706	26611	423471
26	[illegible]	[illegible]	-[illegible]	283765	[illegible]		[illegible]		[illegible]		5112	1706	27414	[illegible]
27	173.33	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		5112	1706	28211	402[illegible]
28	[illegible]	[illegible]	-[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		5112	1706	30111	404729
29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		5112	1706	28217	402554
30	173.46	68864100	156500	284742	[illegible]		[illegible]		[illegible]		5112	1706	28291	401157
31	173.57	69113600												
S.TOT 21-31			-346000	3743148	45[illegible]	0	4[illegible]	0	[illegible]	0	51191	17094	293654	4064269
TOTAL 1-31			-3164100	8336317	1036367	0	[illegible]	0	11548400	0	155895	53094	831615	12566831

NOTE CHANGE IN VOLUME RELATING TO DAY BEFORE .

BALANCE FOR JUNE 1993
PREPARED BY HYDROLOGY SECTION

JORDAN VALLEY AUTHORITY — KING TALAL DAM

RESERVOIR DATA				INFLOW DATA				OUTFLOW DATA						
DATE	RE.ELE	RE.VOL	CH.VOL	ZARQA	TRIBU.	RAIN-F.	TOTAL	BOT.O.L.	P.HOUSE	SPILL-W.	S.L.ABUT.	S.R.ABUT.	EVAPOR.	TOTAL
1	172.89	68113600	-129000	248499	30713		279212		370800		5112	1706	30594	408212
2	172.83	67984600	-129000	235946	29162		265108		359100		5112	1706	28190	394108
3	172.77	67855600	-172000	202765	25061		227826		367200		5112	1706	25808	399826
4	172.69	67683600	-215000	166515	20580		187095		367200		5103	1695	28097	402095
5	172.59	67468600	-193500	187904	23224		211128		367200		5103	1695	30630	404628
6	172.50	67275100	-215000	170540	21078		191618		367200		5103	1695	32620	406618
7	172.40	67060100	-215000	166329	20557		186886		367200		5103	1695	27888	401886
8	172.30	66845100	-258000	168845	20869		189714		413100		5103	1695	27816	447714
9	172.18	66587100	-236500	161814	20000		181814		386100		5103	1695	25416	418314
10	172.07	66350600	-214700	164332	20311		184643		367200		5103	1695	25345	399343
S.TOT 1-10			-1977700	1873489	231555	0	2105044	0	3732300	0	51057	16983	282404	4082744
11	171.97	66135900	-214000	166943	20633		187576		367200		5103	1695	27578	401576
12	171.87	65921900	-235400	149873	18524		168397		367200		5103	1695	29799	403797
13	171.76	65686500	-235400	147742	18260		166002		367200		5088	1687	27427	401402
14	171.65	65451100	-214000	146667	18127		164794		346950		5088	1687	25069	378794
15	171.55	65237100	-214000	147429	18222		165651		345600		5088	1687	27276	379651
16	171.45	65023100	-214000	147365	18214		165579		345600		5088	1687	27204	379579
17	171.35	64809100	-214000	147301	18206		165507		345600		5088	1687	27132	379507
18	171.25	64595100	-214000	145171	17943		163114		345600		5088	1687	24739	377114
19	171.15	64381100	-214000	145123	17937		163060		345600		5088	1687	24685	377060
20	171.05	64167100	-214000	147109	18182		165291		345600		5088	1687	26916	379291
S.TOT 11-20			-2182800	1490723	184248	0	1674971	0	3522150	0	50910	16886	267825	3857771
21	170.95	63953100	-192600	131602	16265		147867		302400		5067	1675	31325	340467
22	170.86	63760500	-192600	127571	15767		143338		302400		5067	1675	26796	335938
23	170.77	63567900	-192600	123556	15271		138827		302400		5067	1675	22285	331427
24	170.68	63375300	-171200	146521	18109		164630		302400		5067	1675	26688	335830
25	170.60	63204100	-171200	144502	17860		162362		302400		5067	1675	24420	333562
26	170.52	63032900	-171200	144463	17855		162318		302400		5067	1675	24376	333518
27	170.44	62861700	-171200	159896	19762		179658		315360		5067	1675	28756	350858
28	170.36	62690500	-171200	157884	19514		177398		315360		5067	1675	26496	348598
29	170.28	62519300	-149800	163392	20194		183586		302400		5067	1675	24244	333386
30	170.21	62369500	-149800	165316	20432		185748		302400		5067	1675	26406	335548
31	170.14	62219700	-128400	186280	23023		209303		302400		5067	1675	28561	337703
1/8	170.08	62091300												
S.TOT 21-31			-1861800	1650983	204052	0	1855035	0	3352320	0	55737	18425	290353	3716835
TOTAL 1-31			-6022300	5015195	619855	0	5635050	0	10606770	0	157704	52294	840582	11657350

NOTE:CHANGE IN VOLUME LATING TO DAY BEFOE .

2,63

BALANCE FOR JULY 1993
PREPARED BY HYDROLOGY SECTION

JORDAN VALLEY AUTHORITY — KING TALAL DAM

RESERVOIR DATA				INFLOW DATA				OUTFLOW DATA						
DATE	RE.ELE	RE.VOL	CH.VOL	ZARQA	TRIBU.	RAIN-F.	TOTAL	BOT.O.L.	P.HOUSE	SPILL-W.	S.L.ABUT.	S.R.ABUT.	EVAPOR.	TOTAL
1	170.08	62091300	-128400	186245	23019		209264		302400		5067	1675	28522	337664
2	170.02	61962900	-128100	187453	23168		210621		302400		5067	1675	29579	338721
3	169.96	61834800	-149100	167671	20723		188394		302400		5028	1632	28434	337494
4	169.89	61685700	-149100	167614	20716		188330		302400		5028	1632	28370	337430
5	169.82	61536600	-149100	167557	20709		188266		302400		5028	1632	28306	337366
6	169.75	61387500	-149100	169434	20941		190375		302400		5028	1632	30415	339475
7	169.69	61238400	-149100	165515	20456		185971		302400		5028	1632	26011	335071
8	169.61	61089300	-149100	167387	20688		188075		302400		5028	1632	28115	337175
9	169.54	60940200	-149100	165410	20444		185854		302400		5028	1632	25894	334954
10	169.47	60791100	-149100	161525	19964		181489		302400		5028	1632	21529	330589
S.TOT 1-10			-1449300	1705811	210828	0	1916639	0	3024000	0	50358	16406	275175	3365939
11	169.40	60642000	-149100	163278	20180		183458		302400		4945	1585	23628	332558
12	169.33	60492900	-234300	168112	20778		188890		388800		4945	1585	27860	423190
13	169.22	60258600	-234300	168023	20767		188790		388800		4945	1585	27760	423090
14	169.11	60024300	-149100	166858	20623		187481		302400		4945	1585	27651	336581
15	169.04	59875200	-149100	166810	20616		187426		302400		4945	1585	27596	336526
16	168.97	59726100	-149100	166757	20610		187367		302400		4945	1585	27537	336467
17	168.90	59577000	-149100	166647	20597		187244		302400		4912	1550	27482	336344
18	168.83	59427900	-191700	126807	15673		142480		302400		4912	1550	25318	334180
19	168.74	59236200	-213000	134632	16640		151272		332550		4912	1550	25260	364272
20	168.64	59023200	-213000	167289	20676		187965		367200		4912	1550	27303	400965
S.TOT 11-20			-1831800	1595213	197160	0	1792373	0	3291750	0	49318	15710	267395	3624173
21	168.54	58810200	-191700	203550	25157		228707		388800		4912	1550	25145	420407
22	168.45	58618500	-149100	164733	20360		185093		300600		4912	1550	27131	334193
23	168.38	58469400	-170400	164602	20344		184946		324000		4850	1510	24986	355346
24	168.30	58299000	-171400	164593	20342		184935		324000		4850	1510	25975	356335
25	168.22	58127600	-169400	167242	20670		187912		324000		4850	1510	26952	357312
26	168.14	57958200	-170400	166296	20553		186849		324000		4850	1510	26889	357249
27	168.06	57787800	-170200	166419	20568		186987		324000		4850	1510	26827	357187
28	167.98	57617600	-148400	185770	22960		208730		324000		4850	1510	26770	357130
29	167.91	57469200	-148400	166513	20580		187093		302400		4850	1510	26733	335493
30	167.84	57320800	-190800	131021	13573		144594		302400		4812	1485	26697	335394
31	167.75	57130000	-233200	153890	29501		183391		381600		4812	1485	28694	416591
1/9	167.64	56896800												
S.TOT 21-31			-1913400	1834629	234608	0	2069237	0	3619800	0	53398	16640	292799	3982637
TOTAL 1-31			-5194500	5135653	642596	0	5778249	0	9935550	0	153074	48756	835369	10972749

NOTE: CHANGE IN VOLUME RELATING TO DAY BEFORE.

2.157

BALANCE FOR AUG. 1993
PREPARED BY HYDROLOGY SECTION

JORDAN VALLEY AUTHORITY — KING TALAL DAM

RESERVOIR DATA				INFLOW DATA				OUTFLOW DATA						
DATE	RE.ELE	RE.VOL	CH.VOL	ZARQA	TRIBU.	RAIN-F.	TOTAL	BOT.O.L.	P.HOUSE	SPILL-W.	S.L.ABUT.	S.R.ABUT.	EVAPOR.	TOTAL
1	159.84	40920000	-105000	206997	25584		232581		324000		4259	1054	8268	337581
2	159.78	40815000	-105000	210859	26061		236920		326700		4259	1054	9907	341920
3	159.72	40710000	-122500	212826	26304		239130		345600		4259	1054	10717	361630
4	159.65	40587500	-87500	205512	25400		230912		302400		4259	1054	10699	318412
5	159.60	40500000	-122500	207884	25694		233578		340200		4259	933	10686	356078
6	159.53	40377500	-157500	219815	27168		246983		388800		4082	933	10668	404483
7	159.44	40220000	-157500	217608	26895		244503		388800		4082	933	8188	402003
8	159.35	40062500	-157500	217592	26893		244485		388800		4082	933	8170	401985
9	159.26	39905000	-157500	217576	26891		244467		388800		4082	933	8152	401967
10	159.17	39747500	-157500	219008	27068		246076		388800		4082	933	9761	403576
S.TOT 1-10			-1330000	2135677	263958	0	2399635	0	3582900	0	41705	9814	95216	3729635
11	159.08	39590000	-122500	248694	30737		279431		388800		4082	933	8116	401931
12	159.01	39467500	-70000	262405	32432		294837		350100		4082	933	9722	364837
13	158.97	39397500	-70000	206761	26455	7283	240499		302400		3990	872	3237	310499
14	158.93	39327500	157500	378993	47301	3718	430012		262800		3990	872	4850	272512
15	159.02	39485000	17500	283914	35090		319004		293400		3990	872	3242	301504
16	159.03	39502500	-52500	176440	21807		198247		239400		3990	872	6485	250747
17	159.00	39450000	0	203776	25186		228962		216000		3990	872	8100	228962
18	159.00	39450000	17500	219202	27092		246294		216000		3852	842	8100	228794
19	159.01	39467500	17500	219203	27093		246296		216000		3852	842	8102	228796
20	159.02	39485000	17500	217763	26914		244677		216000		3852	842	6483	227177
S.TOT 11-20			-87500	2417151	300107	11001	2728259	0	2700900	0	39670	8752	66437	2815759
21	159.03	39502500	0	231746	28643		260389		248400		3852	842	7295	260389
22	159.03	39502500	0	258258	31920		290178		279000		3852	842	6484	290178
23	159.03	39502500	-17500	253898	31381		285279		291600		3852	842	6485	302779
24	159.02	39485000	-35000	234317	28960		263277		287100		3852	842	6483	298277
25	159.00	39450000	-122500	237678	29376		267054		378000		3852	842	6860	389554
26	158.93	39327500	-87500	202632	25044		227676		302400		3852	842	8082	315176
27	158.88	39240000	-87500	202983	25088		228071		302400		4259	842	8070	315571
28	158.83	39152500	-87500	203689	25175		228864		302400		4259	842	8863	316364
29	158.78	39065000	-87500	204393	25262		229655		302400		4259	842	9654	317155
30	158.73	38977500	-87500	205094	25349		230443		302400		4259	842	10442	317943
31	158.68	38890000	-105000	204866	25259		230125		320400		4259	842	9624	335125
1/1	158.62	38785000												
S.TOT21-31			-717500	2439554	301457	0	2741011	0	3316500	0	44407	9262	88342	3458511
TOTAL 1-30			-2135000	6992382	865522	11001	7868905	0	9600300	0	125782	27828	249995	10003905

NOTE: CHANGE IN VOLUME RELATING TO DAY BEFORE .

BALANCE FOR DEC. 1993
PREPARED BY HYDROLOGY SECTION

JORDAN VALLEY AUTHORITY

KING TALAL DAM

RESERVOIR DATA				INFLOW DATA				OUTFLOW DATA					
DATE	RE.ELE	RE.VOL	CH.VOL	ZARQA	TRIBU.	RAIN-F.	TOTAL	BOT.O.L.	P.HOUSE	SPILL-W.	S.L.ABUT.	S.R.ABUT.	EVAPOR.	TOTAL
1	158.62	38785000	-105000	214707	27131	4803	246641		345600		3610	830	1601	351641
2	158.56	38680000	-70000	211849	26341	1278	239468		303750		3610	830	1278	309468
3	158.52	38610000	70000	276683	34197		310880		234900		3610	830	1540	240880
4	158.56	38680000	910000	864868	112621	46342	1023831		106199		3610	830	3192	113831
5	159.08	39590000	472500	425899	52639		478538				3610	830	1598	6038
6	159.35	40062500	262500	241688	29871		271559				3470	720	4869	9059
7	159.50	40325000	280000	257292	31800		289092				3470	720	4902	9092
8	159.66	40605000	210000	239722	29629		269350		48600		3470	720	6560	59350
9	159.78	40815000	192500	296259	36616		332875		129600		3470	720	6585	140375
10	159.89	41007500	105000	235726	29135		264861		149040		3470	720	6631	159861
S.TOT 1-10			2327500	3264692	409980	52423	3727095	0	1317689	0	35400	7750	38756	1399595
11	159.95	41112500	70000	210335	25997		236332		155520		3470	720	6622	166332
12	159.99	41182500	74500	282371	34900		317271		231120		3470	720	7461	242771
13	160.03	41257000	0	185751	22958		208709		198710		3470	720	5709	208709
14	160.03	41257000	57000	254244	32306	7143	293693		227520		3470	720	4983	236693
15	160.06	41314000	76000	152984	20963	16624	190571		106560		3470	720	3821	114571
16	160.10	41390000	304000	330856	43977	24960	399793		86400		3590	795	5008	95793
17	160.26	41694000	266000	321241	39704		360945		86400		3590	795	4160	94945
18	160.40	41960000	190000	254358	31438		285796		86400		3590	795	5011	95796
19	160.50	42150000	171000	237464	29349		266813		86400		3590	795	5028	95813
20	160.59	42321000	171000	237474	29351		266825		86400		3590	795	5040	95825
S.TOT 11-20			1379500	2467079	310942	48727	2826748	0	1351430	0	35300	7575	52943	1447248
21	160.68	42492000	190000	254394	31442		285836		86400		3590	795	5051	95836
22	160.78	42682000	266000	320517	39615		360132		86400		3590	795	3347	94132
23	160.92	42948000	779000	719979	91494	20294	831767		45000		3590	795	3382	52767
24	161.33	43727000	361000	358317	45272	7975	411564		43200		3640	840	2884	50564
25	161.52	44066000	456000	411238	51042	1738	464018		1800		3640	840	1738	8018
26	161.76	44544000	342000	309903	38303		348206				3640	840	1726	6206
27	161.94	44886000	324000	295441	36515		331956				3640	840	3476	7956
28	162.10	45210000	315000	287447	35527		322974				3640	840	3494	7974
29	162.25	45525000	365000	330399	40836		371235				3640	840	1755	6235
30	162.40	45890000	202000	254168	31417		285605		75600		3640	840	3525	83605
31	162.52	46092000	567000	553113	72366	32391	657870		84600		3640	840	1790	90870
1/2	162.79	46659000												
S.TOT 21-31			4167000	4094937	513828	62398	4671163	0	423000	0	39890	9105	32168	504163
TOTAL 1-30			7874000	9826707	1234751	163548	11225006	0	3092119	0	110590	24430	123867	3351006

NOTE:CHANGE IN VOLUME RELATING TO DAY BEFORE .

BALANCE FOR JAN. 1994
PREPARED BY HYDROLOGY SECTION

AN VALLEY AUTHORITY — KING TALAL DAM

RESERVOIR DATA			INFLOW DATA				OUTFLOW DATA						
RE.ELE	RE.VOL	CH.VOL	ZARQA	TRIBU.	RAIN-F.	TOTAL	BOT.O.L.	P.HOUSE	SPILL-W.	S.L.ABUT.	S.R.ABUT.	EVAPOR.	TOTAL
162.79	46659000	1596000	1422441	176250	3579	1602270				3640	840	1790	6270
163.55	48255000	420000	433945	53634		487579		57600		3640	840	5499	67579
163.75	48675000	336000	307953	38062		346015				3640	840	5535	10015
163.91	49011000	294500	269447	33302		302749				3688	852	3709	8249
164.05	49305500	274300	253139	31287		284426				3688	852	5586	10126
164.18	49579800	253200	258404	31938		290342		27000		3688	852	5602	37142
164.30	49833000	189900	218164	26964		245128		43200		3688	852	7488	55228
164.39	50022900	189900	218177	26966		245142		43200		3688	852	7502	55242
164.48	50212800	211000	212939	26318		239257		16200		3688	852	7517	28257
164.58	50423800	253200	236093	29180		265273				3688	852	7533	12073
OT 1-10		4018000	3830701	473900	3579	4308180	0	187200	0	36736	8484	57760	290180
164.70	50677000	253200	272514	35548	15104	323166		61650		3688	852	3776	69966
164.82	50930200	316500	329227	40691		369918		43200		3688	852	5678	53418
164.97	51246700	232100	257507	31827		289334		43200		3688	852	9494	57234
165.08	51478800	232100	257588	31837		289425		43200		3736	865	9524	57325
165.19	51710900	211000	258063	31895		289958		64800		3736	865	9557	78958
165.29	51921900	126600	200491	24780		225271		86400		3736	865	7670	98671
165.35	52048500	126600	200504	24781		225285		86400		3736	865	7684	98685
165.41	52175100	168800	201339	24885		226224		43200		3736	865	9623	57424
165.49	52343900	211000	200471	24777		225248				3736	865	9647	14248
165.59	52554900	253200	236333	29210		265543				3736	865	7742	12343
TOT 11-20		2131100	2414037	300231	15104	2729372	0	472050	0	37216	8611	80395	598272
165.71	52808100	232100	214956	26571		241558				3736	865	4857	9458
165.82	53040200	211000	240167	31009	10721	281896		53100		3802	872	6822	70896
165.92	53251200	12200	294979	37425	7821	340221		269140		3802	872	3910	298024
165.94	53293400	84400	294007	36680	1956	332513		237600		3802	872	5869	248113
165.98	53377800	42200	263359	32550		295909		211200		3802	872	7835	253709
166.00	53420000	106000	275291	34691	5292	315371		153200		3802	872	4900	209374
166.05	53526000	212000	245652	31053	10011	287756		66960		3802	872	1122	75756
166.15	53738000	233200	272545	31685		304230		65180		3802	872	7876	73030
166.26	53971200												
S.TOT21-31		1163100	2101526	264161	35801	2401491	0	1154680	0	30350	6969	16192	1236391
TOTAL 1-30		7312200	3346261	1038295	54481	9439013	0	1814130	0	101302	24064	184347	2126843

NOTE:CHANGE IN VOLUME RELATING TO DAY BEFORE .

BALANCE FOR FEB. 1991
PREPARED BY HYDROLOGY SECTION

JORDAN VALLEY AUTHORITY — KING TALAL DAM

RESERVOIR DATA				INFLOW DATA				OUTFLOW DATA					
DATE	RE.ELE	RE.VOL	CH.VOL	ZARQA.	TRIBU.	RAIN-F.	TOTAL	BOT.O.L.	P.HOUSE	SPILL-W.	S.L.ABUT.	S.R.ABUT.	EVAPOR.	TOTAL
1	168.37	58448100	-63900	200281	25783	8329	234393		286200		4508	1338	6247	298293
2	168.34	58384200	-85200	188296	23272		211568		282600		4508	1338	8322	296768
3	168.30	58299000	-85200	197835	24451		222286		293400		4508	1338	8240	307486
4	168.26	58213800	-42600	162943	20139		183082		199080		4508	1338	20756	225682
5	168.24	58171200	21300	171766	21229		192995		147160		4520	1345	18670	171695
6	168.25	58192500	0	180514	22311		202825		180360		4520	1345	16600	202825
7	168.25	58192500	-106500	177195	21900		199095		287280		4520	1345	12450	305595
8	168.20	58086000	-213000	172746	21351		194097		388800		4520	1345	12432	407097
9	168.10	57873000	-213000	172714	21347		194061		388800		4520	1345	12396	407061
10	168.00	57660000	-212000	191426	23659		215085		406800		4520	1345	14420	427085
S.TOT 1-10			-1000100	1815716	225442	8329	2049487	0	2860480	0	45152	13422	130533	3049587
11	167.90	57448000	-190300	204507	23992		228499		389300		4520	1345	24634	419299
12	167.81	57257200	-212000	181818	21331		203149		388800		4520	1345	20484	415149
13	167.71	57045200	-254400	183733	21555		205288		429300		4520	1345	24523	459688
14	167.59	56790800	-254400	186025	21824		207849		432000		4485	1298	24466	462249
15	167.47	56536400	-254400	182332	21391		203723		432000		4485	1298	20340	458123
16	167.35	56282000	-254400	178685	20963		199649		432000		4485	1298	16266	454049
17	167.23	56027600	-254400	180434	21168		201603		432000		4485	1298	18220	456003
18	167.11	55773200	-275600	166836	19573		186409		432000		4485	1298	24226	462009
19	166.98	55497600	-275600	166752	19563		186315		432000		4485	1298	24132	461915
20	166.85	55222000	-275600	166668	19553		186221		432000		4485	1298	24038	461821
S.TOT 11-20			-2501400	1797790	210914	0	2008704	0	4[illegible]	0	44956	13121	221328	4510304
21	166.72	54946400	-275600	165461	19764		185225		432000		4485	1298	26042	463825
22	166.59	54670800	-254400	163004	19123		182128		432000		4485	1298	23945	460528
23	166.47	54416400	-233200	162232	19033		181265		388800		4485	1298	19832	414495
24	166.36	54183200	-233200	158713	18620		177333		358800		4600	1280	15853	410533
25	166.25	53950000	-233200	155130	18200		173330		388800		4600	1280	11850	406530
26	166.14	53716800	-233200	158613	18609		177227		358800		4600	1280	15747	410427
27	166.03	53483600	-232400	162759	19099		181858		358800		4600	1280	19618	414298
28	165.92	53251200	-189900	165613	19429		185042		340600		4600	1280	23462	374942
29	165.83	53061300	-232100	153294	17984		171278		378000		4600	1280	19498	403378
30	165.72	52829200	-232100	139643	16383		156026		361800		4600	1280	19366	388126
31/5	165.61	52597100												
S.TOT21-31			-2349300	1587503	186244	0	1773752	0	3869280	0	45655	12854	195263	4123052
TOTAL 1-30			-5851000	5201014	622600	8329	5831943	0	10960660	0	135762	39397	547124	11682943

NOTE:CHANGE IN VOLUME RELATING TO DAY BEFORE .

BALANCE FOR April 1994
PREPARED BY HYDROLOGY SECTION

JORDAN VALLEY AUTHORITY — KING TALAL DAM

RESERVOIR DATA				INFLOW DATA				OUTFLOW DATA					
DATE	RE.ELE	RE.VOL	CH.VOL	ZARQA	TRIBU.	RAIN-F.	TOTAL	BOT.O.L.	P.HOUSE	SPILL-W.	S.L.ABUT.	S.R.ABUT.	EVAPOR.	TOTAL
1	166.26	53971200	212000	235338	29087		264425		43920		3802	872	3831	52425
2	166.36	54183200	233200	234461	28978		263439		19800		3802	872	5765	30239
3	166.47	54416400	169600	234272	28955		263227		81000		3802	872	7953	93627
4	166.55	54586000	21200	182222	22522		204744		172800		3876	889	5979	183544
5	166.56	54607200	21200	183998	22741		206739		172800		3876	889	7974	185539
6	166.57	54628400	275600	390866	50651	18945	460462		179100		3876	889	997	184862
7	166.70	54904000	424000	461881	57086		518967		88200		3876	889	2002	94967
8	166.90	55328000	212000	273402	33791		307193		86400		3876	889	4028	95193
9	167.00	55540000	190800	252747	31238		283985		86400		3876	889	2020	93185
10	167.09	55730800	190800	258152	31907		290059		86400		3876	889	8094	99259
S.TOT 1-10			1950400	2707340	336956	18945	3063241	0	1016820	0	38538	8839	48644	1112841
11	167.18	55921600	148400	258676	31971		290647		131400		3876	889	6082	142247
12	167.25	56070000	254400	338010	45540	30450	414000		154800		3905	895	0	159600
13	167.37	56324400	996400	925223	115108	6104	1046435		43200		3905	895	2035	50035
14	167.84	57320800	445700	443048	54759		497807		13200		3905	895	4107	52107
15	168.05	57766500	340800	348966	43759		392725		13200		3905	895	3925	51925
16	168.21	58107300	298200	311783	38535		350318		11100		3905	895	5918	52118
17	168.35	58405500	213000	235994	29168		265162		13200		3905	895	4162	52162
18	168.45	58618500	170400	200497	24781		225278		43200		4253	1164	6261	54878
19	168.53	58788900	85200	122821	15180		138001		43200		4253	1164	4184	52801
20	168.57	58874100	85200	127092	15708		142800		45900		4253	1164	6283	57600
S.TOT 11-20			3037700	3312108	414509	36554	3763171	0	632700	0	40065	9751	42955	725171
21	168.61	58959300	42600	126027	15576		141603		65200		4253	1164	8386	99003
22	168.63	59001900	-21300	149527	18481		168008		175500		4253	1164	8391	189308
23	168.62	58980600	-63900	210935	26071		237006		287100		4253	1164	8389	300906
24	168.59	58916700	-42600	189234	23265		211199		210300		4253	1164	8382	254099
25	168.57	58874100	-21300	195118	26601	20101	211856		250200		4253	1164	7539	263156
26	168.56	58852800	0	241099	29799		270898		259200		4253	1164	6281	270898
27	168.56	58852800	-21300	224005	27686		251691		259200		4253	1164	8371	272991
28	168.55	58831500	-127800	196884	24334		221218		334500		1508	1338	8372	319018
29	168.19	58703700	-106500	227300	28093		255393		315000		1508	1338	10447	361893
30	168.11	58597200	-106500	209919	25915		235834		324000		1508	1338	12518	312364
31	168.39	58190700	-42600	195782	24198		219980		218100		1508	1338	8334	262580
1/4	163.37	58118100												
S.TOT 21-31			-511200	2164861	270052	20101	2455017	0	2609500	0	47805	13199	95413	2966217
TOTAL 1-30			4476900	8184309	1021517	75603	9281129	0	4159020	0	126408	32089	187012	4804529

NOTE:CHANGE IN VOLUME RELATING TO DAY BEFORE .

BALANCE FOR MAR. 1994
PREPARED BY HYDROLOGY SECTION

4512512