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ANALYSIS OF SURVEY OF NONOPERATIONAL SUBPROJECTS

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Foreword

This document was prepared by Chemonics International Consulting Division for the US Agency for International Development, under Contract No. 263-0182-C-00-8041-00, Project No. 262-0182-3-60054, "Local Development II - Provincial Project" (LD II-P). The data were collected by the 22 governorates participating in the LD II-P project. The instrumentation, data processing, and analysis were prepared by staff of the Information Systems and Monitoring and Evaluation Sections of the LD II-P project.

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Section I

Introduction and Summary

This report presents results of the "Survey of Nonoperational Projects" that was conducted in the fall of 1990 and the spring of 1991. This survey collected data on the operational status of Local Development II - Provincial (LD II-P) subprojects. These subprojects are infrastructure subprojects funded by the US Agency for International Development over the period 1986-1989. Status assessments were conducted by the governorates for all 10,651 subprojects funded by LD II-P as of September 1990. *3 cycles*

The goal of the Survey of Nonoperational Projects was to assess the operational status of all LD II-P subprojects, to identify the reasons for nonoperational status, to estimate the funds required to complete nonoperational subprojects, and to estimate the operations and maintenance funds required for all subprojects. There were three principal audiences for the survey results: the US Agency for International Development (USAID), Chemonics, and the 22 rural Egyptian governorates participating in the LD II-P program. The primary interest of the USAID was an assessment of the operational status of all LD II-P subprojects, for program accountability purposes. The primary interest of Chemonics and the governorates was to obtain information that would assist the allocation of limited technical assistance resources to accomplish the completion and operation of the subprojects.

This report describes the survey data collection and analysis methodology, presents a wide variety of descriptive statistics, summarizes and interprets those statistics, and makes recommendations based on the survey findings.

SUMMARY OF SURVEY FINDINGS AND RECOMMENDATIONS

In the survey, operational status could be determined for all but 3 percent of the LD II-P subprojects. According to the governorates, approximately 83 percent of all subprojects were classified as completed and fully operational, with substantial variation in operational status among governorates and planning years. Of the remaining 14 percent, 4 percent were completed but not operational or only partially operational, 2 percent were not completed and part of a multiyear project, 7 percent were not completed and not operational, and less than 1 percent were classified as unusable or had been cancelled. *83% operable*
10% unusable

According to governorate estimates, an additional investment of LE 29.4 million in capital funds is needed to complete all subprojects (funded in years 1986-1989) and bring them to operational status, and LE 4.8 million is needed per year for operation and maintenance. For reasons described in the text, however, these estimates are suspect. If subproject estimates of needed capital funds are restricted in size to the amount of the original capital investment (all cash contributions) in the subproject, the estimate of total capital funds needed to complete and operationalize all subprojects is reduced from LE 29.4 million to LE 19.4 million. Similarly, if estimates of funds needed for operation are restricted in size to 10 percent of the original subproject cash investment, the estimate of total operation funds needed per year to operate and maintain all subprojects is reduced from LE 4.8 million to LE 1.8 million.

Subprojects were classified as nonoperational for a variety of reasons, which varied substantially by sector, with financial and contractor problems cited more than 60 percent of the time as the primary reason for nonoperational status.

Preliminary results of the survey have already been provided to Chemonics staff for follow-up, including lists of subprojects classified as nonoperational.

As a result of the analysis of the survey data, a number of recommendations have been made to improve the methodology to be used to monitor and evaluate LD II-P subprojects in the future. These recommendations include steps to insure that monitoring personnel make a more consistent determination of operational status and to provide firmer guidelines for estimating funds required for completion and operation and maintenance of subprojects.

The sections that follow describe the survey methodology, findings, and recommendations. The report text presents basic summary statistics, including a limited number of estimated proportions and totals, several histograms, crosstabulations, and other tables. These summary presentations were selected from a much larger number of detailed tables produced in the course of the survey data analysis, many of which are presented in Appendix B.

Section II.

Methodology

SURVEY MOTIVATION, GOALS, OBJECTIVES, AND APPROACH

The Survey of Nonoperational Projects was in fact a census of the operational status of all LD II-P subprojects—10,651 in all—funded by LD II-P as of September 1991. The survey data collection was implemented by the 22 governorates participating in the LD II-P program, using the data collection forms and instructions presented in Appendix A.

There were several motivations for the survey. It was known that in numerous instances subprojects that had been started had not been successfully completed, or completed subprojects were not operable or not operating. No accurate estimates were available, however, of the magnitude or nature of this problem. USAID needed to know the magnitude and nature of the problem in order to satisfy requirements for funding accountability and to assist program planning. Chemonics, the contractor in charge of monitoring the LD II-P subprojects for USAID, needed this information in order to design and better allocate its technical assistance services in support of the subprojects. The governorates and marakez participating in the LD II-P program could use this information to assist their own planning and monitoring functions.

The Quarterly Progress Report (QPR) data base management system (DBMS) had been developed to assist subproject monitoring in the LD II-P program. As of last fall, the QPR data base contained information about all of the LD II-P subprojects that had been funded over the preceding four years of the LD II-P program (1987-1989). This information included the financial status, contract status, and development phase of subprojects, but not their operational status. The QPR data base provided an excellent "frame," or list, of all of the LD II-P subprojects. This frame could be used as a basis for identifying all of the LD II-P subprojects to be included in the survey, whether the survey involved a complete enumeration (census) or the selection of a probability sample.

Because of the limited personnel resources, Chemonics staff could not visit all or even a substantial number of the 10,651 LD II-P subprojects to conduct an independent, on-site evaluation. Furthermore, although a modest sample (e.g., a few hundred) of subprojects could be visited over several

months, it was desired to obtain a comprehensive idea of the nature and magnitude of the nonoperational subprojects problem in a short time. Therefore, it was decided that Chemonics would develop data collection instrumentation for a subproject operational status assessment, but that the data would be collected by governorate staff. Because of the limited travel resources available to the governorates, no requirement was imposed that the status assessment involve a site visit to the subproject.

The survey of nonoperational projects is an example of a descriptive survey.¹ The term descriptive survey implies that a variety of observations would be made on the population, and the population would be described in terms of a number of *descriptive* statistics, including means, totals, frequency distributions, crosstabulations, and tables. The term *descriptive* survey is used in contrast to the term *analytical* survey. An analytical survey is a survey in which data are collected to assist the development of an analytical model, such as an econometric model.

SURVEY INSTRUMENTATION AND PROCEDURES

Chemonics developed the data collection instruments (Appendix A), translated them into Arabic, and distributed them to the governorates in a workshop that discussed terms, conditions, and procedures to be used in the survey. Each governorate decided the particular procedures to be used to collect the data. The procedures used varied. In some cases the data were collected by village personnel, but in most cases markaz personnel collected the data.

Chemonics provided survey forms and instructions to all governorates. Governorate personnel completed the forms and returned them to Chemonics for data entry, processing, and analysis. When the data collection forms were received, the data were entered into a data base, using dBASE III+ software.

As can be seen from the material in Appendix A, the governorates were requested to classify each subproject according to operational status, using six different subproject status codes (defined before the data collection process began):

1. Completed and fully operational as planned
2. Completed but partially or fully nonoperational
3. Not completed but part of a multiyear project
4. Not completed and not operational
5. Unusable

¹Since all of the items of the subproject population were included in the survey, it is referred to as a census in statistical terminology.

6. Deleted project

If a subproject was classified as nonoperational (i.e., any status other than "1"), governorate personnel were to cite the reason for the nonoperational status. Codes were provided for 23 reasons, which fell into five major reason classes: financial, contractor, technical, logistical, and administrative. The governorates were also requested to estimate the capital and operating funds needed to complete and/or operate the subproject, if it was nonoperational, and to estimate annual funds needed to operate and mention the subproject.

SURVEY SCHEDULE

The survey was initiated in October of 1990. Data collection forms were received from the governorates during the period from December 1990 through May 1991. Table 1 shows the arrival dates of the data from the governorates.

Governorates varied substantially in the promptness with which they forwarded the data. The data were forwarded over six months, a period much longer than anticipated, and not obtained from all governorates until May of 1991. The large variation in submission dates suggests that the measurement of operational status was not done at the same time by all of the 22 governorates, but over a half-year period.

Table 1 ARRIVAL DATE OF THE SURVEY OF NON OPERATIONAL PROJECTS

SURVEY	ARRIVAL DATE	CORRECTIONS COMPLETE
ASSWAN	21-Jan-91	05-Jun-91
ASSYOUT	28-Feb-91	NA
BEHEIRA	11-Apr-91	05-Jun-91
BENI SUEF	06-Feb-91	05-Jun-91
DAMIETTA	27-Dec-90	05-Jun-91
DAQAHLIYA	12-Dec-90	NA
FAYOUM	20-Feb-91	
GHARBIYA	24-Dec-90	04-Jun-91
GIZA	11-Apr-91	NA
ISAMILIA	27-May-91	05-Jun-91
KAFR EL SHEIKH	28-Feb-91	NA
MATROUH	24-Feb-91	05-Jun-91
MENUFIYA	02-Jan-91	04-Jun-91
MINYA	07-Feb-91	NA
NEW VALLEY	16-Dec-90	NA
NORTH SINAI	23-May-91	NA
QALUBIYA	24-Feb-91	NA
QENA	15-May-91	NA
RED SEA	25-Feb-91	NA
SHARQIYA	20-May-91	NA
SOHAG	16-Jan-91	NA
SOUTH SINAI	19-May-91	NA

DATA PROCESSING AND ANALYSIS

As the data were received from each governorate, they were entered into 22 separate data files. After the data were received from all governorates, the 22 separate data files were combined into a single file.

Each subproject record in the data file was uniquely identified by three numbers, collectively referred to as a *key*: a "geocode," the planning year in which the subproject was funded, and a governorate-assigned serial number. The geocode is a six-digit number formed by the concatenation of a governorate ID number (1-22), a markaz ID number, and a village ID number. The planning year is 1986, 1987, 1988, or 1989. The serial numbers assigned to each subproject is unique for a particular planning year, within a particular governorate.

In the analysis, some statistics could be computed from data in the QPR data base, and some could be computed from the data in the file of survey data. In addition to these statistics based separately on the QPR or survey data bases, however, it was also desired to compute a number of statistics using "joint" data both from the QPR and survey data bases. An example of such a statistic would be the entries in a table that shows the total USAID funding of all subprojects in various operational status categories. The USAID funding datum is available in the QPR data base, and the operational status datum is available in the survey data base. Since the key uniquely identifies each subproject, and since it occurs in both the survey data file and the QPR data file, it may be used as a basis for matching each subproject record in the survey data file with a corresponding record in the QPR data file, and merging both files into a single file comprised of "joined" records containing the data of the QPR and the survey. Analysis of relationships among QPR and survey data is hence possible; a number of these relationships were investigated in the survey data analysis. The two data bases were combined automatically by using a "join match" procedure.

The data were processed and analyzed using a PC version of the Statistical Program for the Social Sciences (SPSS), "SPSS/PC+ (Version 3.1)." This program is used by creating a *system file*, and using the SPSS/PC+ command language to compute statistics of interest. The commands used to join-match the survey and QPR data bases and to produce the various tables presented in Appendix B are presented in Appendix C.²

²While SPSS/PC+ is a powerful computer program package for conducting statistical analysis, it does not present figures (e.g. bar charts, pie charts) in as polished a form as is possible using electronic spreadsheet programs. The figures presented in the text were produced using the Quattro Pro

As part of the data analysis, an analysis was conducted of "outliers." An "outlier" is an observation for which the value of one of the observation variables is very extreme. Frequency distributions were constructed for four variables, and examined for outliers. These four variables were the capital funds required to complete the subproject and bring it to operational status, the funds required to operate and maintain the subproject, and the ratios of these two variables to the *total cash* subproject investment (USAID funds plus all other cash contributions). Based on review by Chemonics staff (in the Monitoring and Evaluation Section and the various sector-specific sections), two of the outlier observations were identified as certain errors. In one case the capital funds needed were absurdly large (LE 5,000,000), and in the other case the O&M funds needed were also absurdly large (LE 3,500,000). The observations containing these errors were deleted from analyses involving capital funds or O&M funds data.

In addition to the analyses presented in this report, lists of nonoperational subprojects were prepared and submitted to sector-specific sections of Chemonics, for follow up.

LIMITATIONS

The survey of nonoperational subprojects is a self-assessment by the governorates of the operational status of the LD II-P subprojects. From a methodological viewpoint, a self-assessment is not as desirable as an independent assessment (e.g., a sample survey implemented by Chemonics staff). It is recognized that differences in interpretation of the operational status and reason categories surely exist among the governorates. The major advantage of the approach was that it could be implemented without the investment of a substantial amount of field data collection by Chemonics staff. The advantages and disadvantages of this approach, and the lessons learned from this survey, will be taken into account in the design of an improved subproject monitoring system.

Based on the analysis of the survey data, several weaknesses were identified or confirmed in the methodology used in the survey. Three of the major weaknesses are listed below.

program, from data extracted from the tables produced by SPSS/PC+ (in Appendix B). The percentage estimates used in the text discussion of the tables were obtained from the tables in Appendix B, not from the Quattro Pro figures.

Governorate Differences in Interpretation of Terms.

Very substantial differences were observed among the governorates in the proportion of subprojects classified as nonoperational and in the amount of funding required to complete the subprojects and bring them to operational status. Many governorates, for example, reported that all subprojects were fully operational, while others reported that a very large proportion were not. Furthermore, 95 subprojects were classified as fully operational, yet reasons for nonoperational status were nevertheless provided.

The meaning of the term operational, as it was translated into Arabic, may have been confusing. Some governorates may have interpreted this term to mean *operating*, some may have interpreted it to mean *operable*, and some may have simply interpreted this term to mean that the funds were expended and the subproject completed, regardless of operational status.

The effect of this problem is that any tables involving governorate-to-governorate comparisons should be viewed with caution. The differences may be real, or they may simply represent differences in interpretation of the term *operational*.

Interpretation of "Capital Funds Required to Complete the Project"

The ratio of the capital funds required to complete the subproject to the total cash investment (USAID funds plus all other cash contributions) was computed for every (uncancelled) subproject, and the frequency distribution computed. A striking feature of this frequency distribution is that approximately 200 subprojects (approximately 2 percent of all subprojects) have ratios exceeding 1.00. That is, governorate personnel estimate that an investment exceeding the original cash investment is needed to complete and operationalize the subproject, for approximately 200 subprojects. This was unexpected. While a possible explanation is that governorates have grossly underestimated the cost of subprojects in numerous instances, it is possible that some governorates estimated the capital cost to complete the *entire physical system* of which the subproject is a part, not the cost to complete just the subproject.

High Nonresponse Rate for Reason Codes

A high nonresponse rate was observed for the reason for nonoperational/noncompletion status, for not-fully-operational subprojects (reasons were indicated for only 861, or 61 percent, out of 1417 not-fully-operational subprojects).

To some extent, this high nonresponse rate may be due to the fact that reasons were requested for *all* nonoperational or noncomplete subprojects, even those uncompleted subprojects that were under development and on schedule (but not yet completed). In any event, the high nonresponse rate makes interpretation of the reason data more difficult.

An additional problem with the reason-code data is that reasons were specified in numerous instances in cases for which the subproject was classified as completed and fully operational, even though reasons were requested *only* for subprojects that were classified as uncompleted or nonoperational. Reasons were provided for 956 subprojects. Since only 861 of these were classified as nonoperational, reasons were given for 95 subprojects classified as *completed and fully operational*. This suggests a misinterpretation of the term operational status. In the English version of the questionnaire, a subproject was to be considered operational (status 1) if it was both completed and delivering services as planned, and a reason was to be provided only for completed subprojects that were nonoperational. Evidently the Arabic instructions were interpreted by some governorate staff to mean that a subproject was operational if it was *capable* of being operated, although some problem may exist that prevents it from operating as planned.

The substantial differences observed among the governorates, and the evidence that important terms may have been interpreted in different ways by different governorates, underscores the need for improved methodology in future monitoring efforts. Recommendations for future monitoring efforts are discussed in the final section of the report.

SPECIAL TERMS AND CONVENTIONS

The term *subproject* is used in this report to refer to any of the 10,651 infrastructure projects funded under the LD II-P program during the period 1986-89. The term *project* is sometimes used to refer to subprojects, but it is generally used in expressions such as "LD II-P project," "multiyear project," "physical project," and "survey of nonoperational projects." It was also used in the survey instrumentation, and is used in some figure titles.

Equipment and vehicles are included as subprojects in the sector to which they are assigned, e.g., sewage trucks under wastewater.

Since the nonoperational projects survey was a census (i.e., a survey of the entire population), there are no sampling errors (or standard errors or confidence intervals) associated with

the estimates presented in this report. (Other errors, such as errors in interpretation or data entry errors, are referred to as "nonsampling" errors.)

Section III

Findings

APPROACH TO ANALYSIS

The presentation of the analysis of the survey data consists of the following four steps:

- **Estimation of population characteristics:** Tables that show the nature of the population of LD II-P subprojects. These tables include frequency distributions of subprojects and funds, by governorate, sector, planning year, and other subproject characteristics. The data in these tables are extracted from the QPR DBMS (i.e., no data from the survey are used in these tables).
- **Estimation of operational status of subprojects:** Tables that show the frequency distribution of subprojects and funds by operational status categories, and the relationship of operational status to other subproject characteristics such as sector and size.
- **Estimation of reasons for nonoperational status:** Tables that show the frequency distribution of subprojects and funds by reason for nonoperational status, and the relationship of the reason to other subproject characteristics.
- **Estimation of funds needed to complete or operate the subprojects:** Tables that show the distribution of capital funds required to complete the subprojects and bring them to operational status, by various subproject characteristics; and tables that show the distribution of operations and maintenance funds required to operate the subprojects, by various subproject characteristics.

The subsections that follow describe each of the preceding analysis steps. The various tables and figures presented in these subsections are extracted from the more detailed and more extensive tables presented in Appendix B.

POPULATION CHARACTERISTICS

The tables in this section are presented as background reference for later tables that are derived from the survey data. They provide frequency distributions of basic subproject characteristics, such as governorate, sector, and size, for the

entire LD II-P subproject population. For example, in interpreting a table that describes the nonoperational status of subprojects by governorate, it is useful to know which governorates have larger numbers of subprojects and larger shares of the total subproject funding allocation. The significance of a large proportion of nonoperational subprojects is less for a governorate having a small proportion of the total subproject funding than for a governorate having a large proportion.

Another purpose of the tables of this section is that they provide information on the *numbers* of subprojects in various categories. Many of the figures presented in the text show the *proportions* of subprojects in various categories, and the tables of this section indicate the *sizes* of the populations being discussed.

Subproject Size

Table 2 shows that most subprojects are small—92.6 percent of the subprojects, representing LE 269 million (64.3 percent) of the total USAID fund, have funding levels less than or equal to LE 100,000. The total USAID funding for the 10,651 subprojects of the survey (or, equivalently, of the QPR data base) is LE 419,582,774. The mean (arithmetic average) of the AID funding (i.e., average AID funds per subproject) is LE 39,394. The median is LE 21,592.³

The total cash funding (USAID contribution plus other cash contributions) for the 10,651 subprojects of the survey is LE 490,509,766.⁴ Almost ninety percent (89.5 percent) of all subprojects have total cash funding less than or equal to LE 100,000. The mean size of the total cash funding for all 10,651 subprojects is LE 46,053. The median size is LE 25,000. Table 3 shows the frequency distribution of subprojects by size of the total cash investment in the subproject.

Tables 2 and 3 show that there are relatively few large subprojects in the LD II-P program. Most subprojects are approximately LE 25,000 in size (AID funds or total cash).

³The median of a data set is a value for which half of the data elements have a greater value and half have a lesser value. The median is a better indicator of central tendency than the mean for "skewed" distributions, such as the distribution of subprojects by size of AID fund.

⁴"Total cash" is the sum of the USAID contribution and other cash contributions made to the subproject (USAID funds, Ministry of Plan funds, Ministry of Finance funds, popular cash contributions, and governorate cash contributions), as those quantities are defined and stored in the QPR data base. In all of the following tables presented in this report, total cash is used as a measure of subproject size.

Table 2 Distribution of Subprojects by Size of AIO Fund

	AIO Fund			
	Count	Percent	AIO Fund (LE)	Percent
AIO Funds				
Zero.....	15	.1%	0	.0%
LE 1 - 25,000.....	6075	57.0%	75,521,242	18.0%
LE 25,001 - 50,000.....	2194	20.6%	79,606,518	19.0%
LE 50,001 - 75,000.....	961	9.0%	59,451,424	14.2%
LE 75,001 - 100,000.....	639	6.0%	55,252,787	13.2%
LE 100,001 - 200,000.....	599	5.6%	83,617,654	19.9%
LE 200,001 - 500,000.....	138	1.3%	42,288,013	10.1%
LE 500,001 - 1,000,000.....	24	.2%	15,848,926	3.8%
Over LE 1,000,000.....	6	.1%	7,989,210	1.9%
Total.....	10651	100.0%	419,582,774	100.0%

Table 3 Distribution of Subprojects by Size of Total Cash

	Count	Percent	Total Cash (LE)	Percent
Total Cash				
Zero.....	2	.0%	0	.0%
LE 1 - 25,000.....	5354	50.3%	70,033,416	14.3%
LE 25,001 - 50,000.....	2557	24.0%	93,023,776	19.0%
LE 50,001 - 75,000.....	1014	9.5%	62,756,730	12.8%
LE 75,001 - 100,000.....	690	6.5%	61,171,996	12.5%
LE 100,001 - 200,000.....	811	7.6%	114,767,193	23.4%
LE 200,001 - 500,000.....	183	1.7%	55,015,527	11.2%
LE 500,001 - 1,000,000.....	33	.3%	22,690,499	4.6%
Over LE 1,000,000.....	7	.1%	11,050,629	2.3%
Total.....	10651	100.0%	490,509,766	100.0%

From this point on in this report, the variable "total cash" will be used as a measure of the monetary size of a subproject.

A number of the tables presented in this analysis show distributions in terms of the number of subprojects and amount of funding (total cash) in various categories. Because most subprojects are about the same size, there is a high correlation between the number of subprojects (subproject "count") in a category and the total funding in the category. Since these two quantities are highly correlated, there is generally little value in presenting both of them in a table. For this reason, most tables in this report include only the count. It is noted, however, that the relationship of subproject funding to subproject count varies substantially by sector. That is, the mean subproject (total cash) size varies by sector; for example, wastewater subprojects tend to be large.

Size Categories

Because of the importance of subproject size in interpreting survey results, subprojects were classified into two size categories, "small" and "large." The measure of size is the magnitude of the total cash investment. Subprojects for which the total cash is less than LE 200,000 are denoted as *small*, and subprojects for which the total cash is LE 200,000 or greater are denoted as *large*. The same size criterion is used for all sectors, even though the distribution of subprojects by size varies substantially by sector. Figure 1 shows the frequency distribution of AID funds and subprojects by size. Figure 2 shows the frequency distribution of AID funds and subprojects by sector.

In this report, no attempt is made to define or use a sector-specific size criterion, since the objective is to classify subprojects by importance in terms of fund size, not in terms of relative importance within the sector. There is a substantial variation in the proportion of subprojects in the *large* size category, if the same LE 200,000 large-project criterion is used for all sectors.

The governorates fall generally into two categories—those having on the order of LE 25 million in funding (twelve governorates), and those having substantially less (ten governorates having half of this amount or less). The proportion of subprojects and the proportion of funds in each governorate are generally similar. The major exceptions to this general rule are Ismailia, which has 1.6 percent of the subprojects and 4.6 percent of the subproject funding; New Valley, which has 1.3 percent of the subprojects and 2.4 percent of the funding, and South Sinai, which has .5 percent of the subprojects and 1.7 percent of the funding. These exceptions represent governorates that have subprojects that

Figure 1. Distribution of AID Funds (Total Cash) and Subprojects by Size

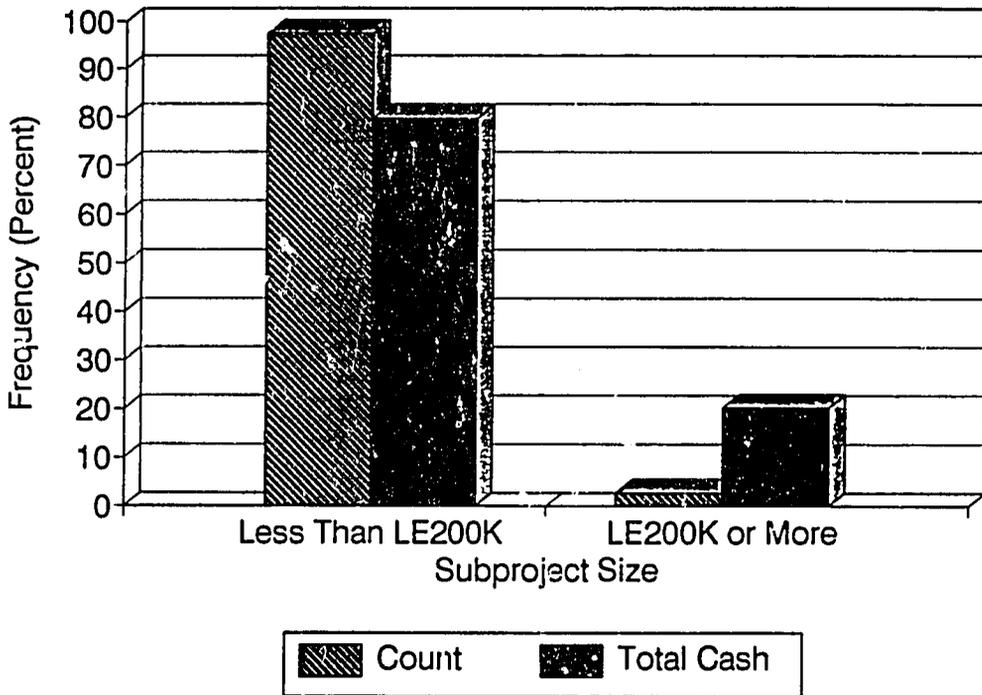
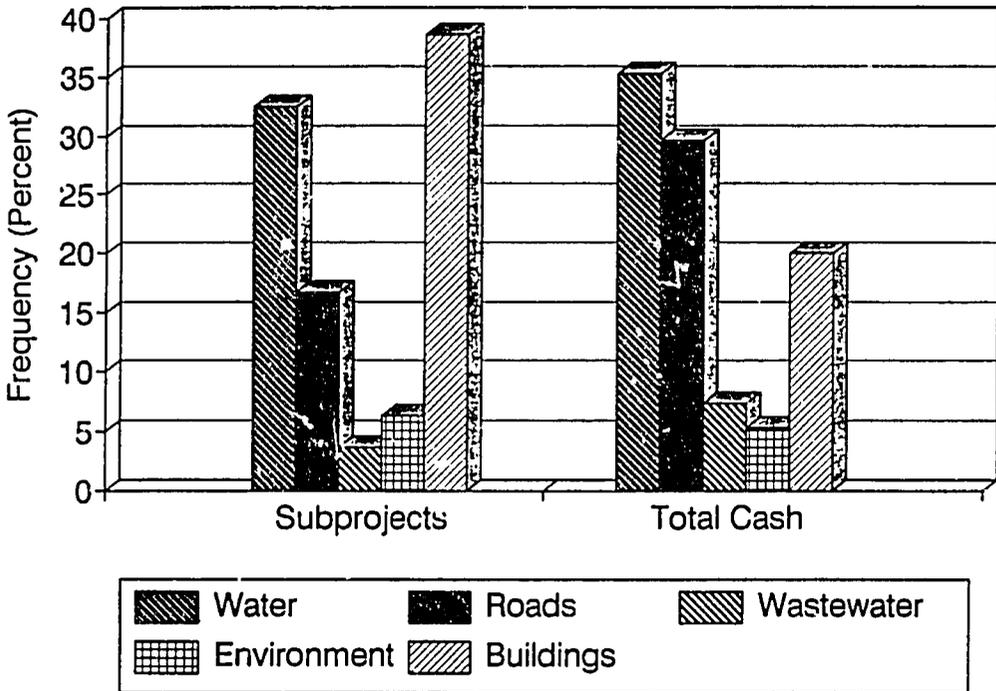
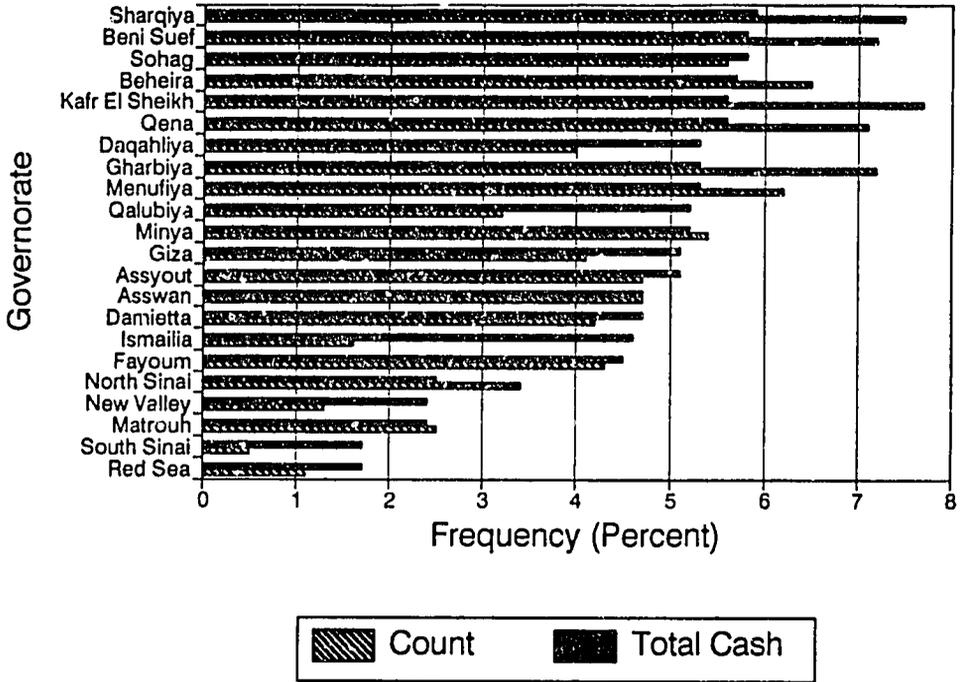


Figure 2. Distribution of AID Funds (Total Cash) and Subprojects by Sector



tend to be large in size. Figure 3 shows the number and proportion of LD II-P subprojects in each of the 22 governorates participating in the project, and the proportion of subproject funding by governorate.

Figure 3. Distribution of Total Cash and Subprojects by Governorate (Ranked by Total Cash).



Other Subproject Relationships

In the analysis of this report, the 1986 and 1987 planning year categories are combined, because these two calendar years represent the first complete cycle of LD II-P funding. The proportion of the subprojects by planning year is 28.4 percent for 1986-87, 41.4 percent for 1988, and 30.1 percent for 1989. Planning year is an important variable in the analysis of relationships to completion and operational status because

most of the uncompleted subprojects were the recently funded ones (1989), many of which were still under implementation when the survey was conducted. Figure 4 shows the distribution of subprojects over the four years of the LD II-P program, 1986-1989⁵.

Figure 5 shows the proportion of subprojects that are functionally linked to other subprojects to form a complete physical system. Only 15 percent of the subprojects are linked.

Figure 4. Distribution of Subprojects by Planning Year

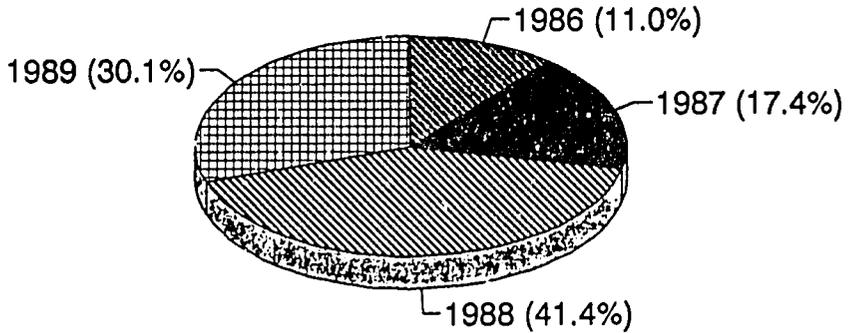
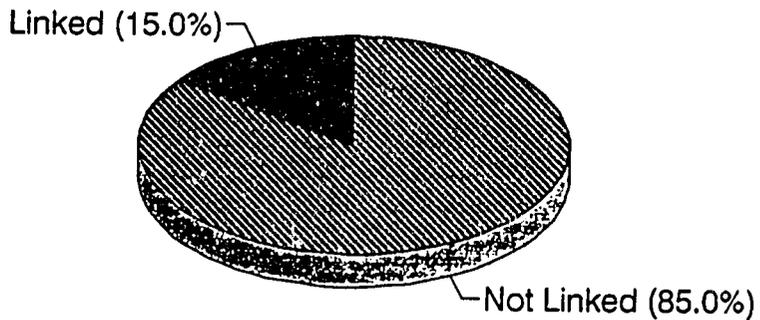


Figure 5. Distribution of Subprojects by Linkage to Other Subprojects



⁵The term *funding cycle* is often used interchangeably with *planning year*.

OPERATIONAL STATUS OF SUBPROJECTS

The tables of this subsection indicate the proportion of subprojects that fall in various operational-status categories, and the relationship of operational status to a variety of subproject characteristics.

In the survey instructions, respondents were requested to classify the operational status according to the five following descriptors:

1. Completed and fully operational as planned
2. Completed but partially or fully nonoperational
3. Not completed but part of a multiyear project
4. Not completed and not operational
5. Unusable

Respondents were requested to select the operational-status category that *best* described the operational and completion status of the subproject. In retrospect, the category labels could have been improved⁶. Since the term operational was defined to mean *operating*, not simply operable; the term operating might better have been used. The phrase *partially or fully nonoperational* might better have been replaced with *nonoperational or partially operational or not fully operational* (to avoid use of the term *partially nonoperational*). It would have been desirable to identify subprojects that were completed and operable, but not operating because they were parts of multiyear projects. The two *not completed* categories ("Not completed but part of a multiyear project" and "Not completed and not operational") are not mutually exclusive. The label "Not completed but part of a multiyear project" seems to imply that being part of a multiyear project is a legitimate reason for noncompletion.

In the tables and figures of this report, the preceding category labels have been reworded slightly to avoid confusion. Also, the labels have been abbreviated somewhat in table headings to reduce the size of the table banners and stubs (e.g., "Not completed but part of a multiyear project" was abbreviated to "Part of a multiyear project"). The following category descriptions are used in the tables of this report in place of the descriptions presented in the instrumentation and given above:

1. Completed, fully operational
2. Completed, not fully operational
3. Uncompleted, multiyear project
4. Uncompleted
5. Unusable

⁶The survey instrumentation was developed under extreme time pressure, with no time allowed for pretesting.

6. Cancelled
7. Status unknown

The "Cancelled" and "Status unknown" categories were added after the instrumentation instructions of Appendix A were published.

Distribution by Operational Status

Figure 6 shows the distribution of subprojects and total cash by operational status. The proportions of subprojects falling in the various operational-status categories are as follows:

- Operational status could not be determined for 3 percent of the subprojects
- 83 percent of all subprojects were completed and fully operational as planned
- 4 percent of all subprojects were completed but nonoperational or partially operational
- 2 percent of all subprojects were not completed but part of a multiyear project
- 7 percent of all subprojects were not completed and not operational
- 0.1 percent of all subprojects were unusable
- 0.3 percent of all subprojects had been cancelled

It is not known what proportion of the "Status unknown" subprojects are operational. Also, it is not known how many of the 9 percent of subprojects that were not completed were stopped or had problems that jeopardized their completion.

Distribution of Funds

The funds distribution of Figure 6 shows that a large majority of AID funding (74 percent of the total) is associated with the 83 percent of all subprojects that are classified as completed and fully operational. A somewhat distressing note is the fact that 6.3 percent (LE 31 million) of AID funding is associated with subprojects whose operational status is unknown.

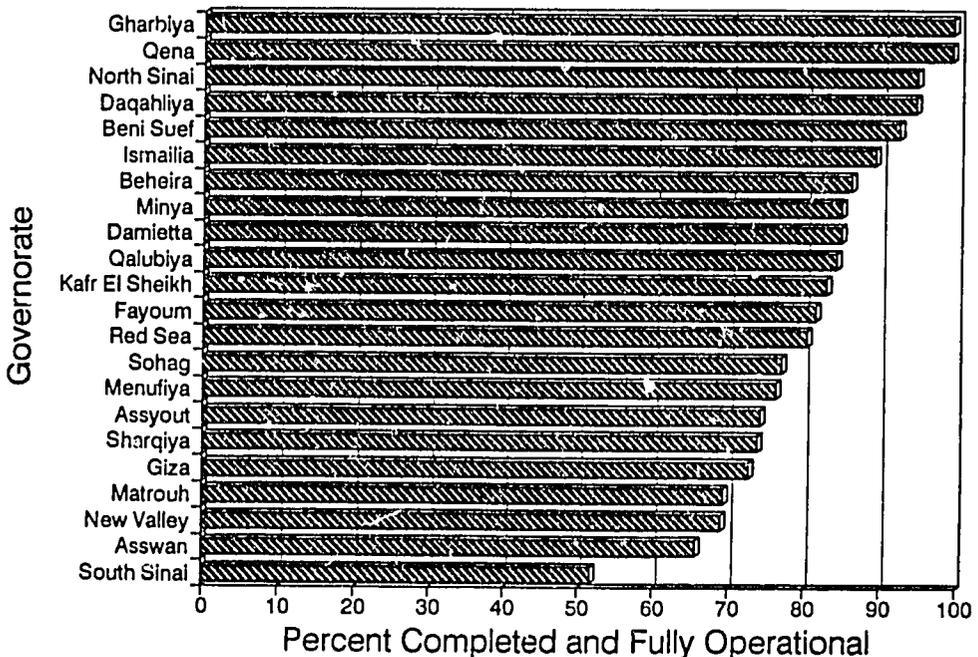
Distribution of Operational Status by Characteristics

The following several tables indicate the distribution of operational status of subprojects according to various subproject characteristics.

By Governorate

Figure 7 shows substantial differences in the proportions of subprojects falling in the various operational-status categories, by governorate. The proportion of subprojects classified as completed and fully operational varies from a low of 51.8 percent (South Sinai) to a high of 99.5 percent (Gharbiya). In interpreting this table, it is important to keep in mind that the classifications were done by the governorate, and that different procedures and individuals were used in each governorate to obtain the classifications. Hence, it is not known whether the substantial governorate-to-governorate differences in the distribution of subprojects by operational status is due to real differences in operational status or in differences in interpretation and procedures in the governorates.

Figure 7. Distribution of Subproject Operational Status by Governorate



Although the use of different staff in the various governorates may introduce substantial artifactual differences in governorate-to-governorate comparisons, the effect of these differences is expected to be small for comparisons made over other variables, for estimates involving totals or means over the entire data set. There are large numbers of subprojects in every governorate, and the largest number of subprojects in any governorate is 7.7 percent (Kafr El Sheikh). For this reason the governorate rating differences will tend to average out for estimates involving sums over governorates. The major concern is with estimates for a single governorate or comparisons among governorates.

By Planning Year

Figure 8 shows that the percentage of subprojects that are completed and fully operational by planning year is 91.1 percent for 1986-87, 88.0 percent for 1988, and 69.5 percent for 1989. The proportion of subprojects completed and fully operational in 1989 is substantially less than that for the previous planning years because a substantial proportion (21 percent) of all subprojects in the 1989 planning year were not yet completed.

By Sector

Figure 9 shows that the frequency distribution of operational status by the six sector categories used in the QPR system is quite similar across the sectors. The proportions of completed and fully operational subprojects ranges from 82.4 percent to 89.5 percent for the various sectors.

By Subproject Size

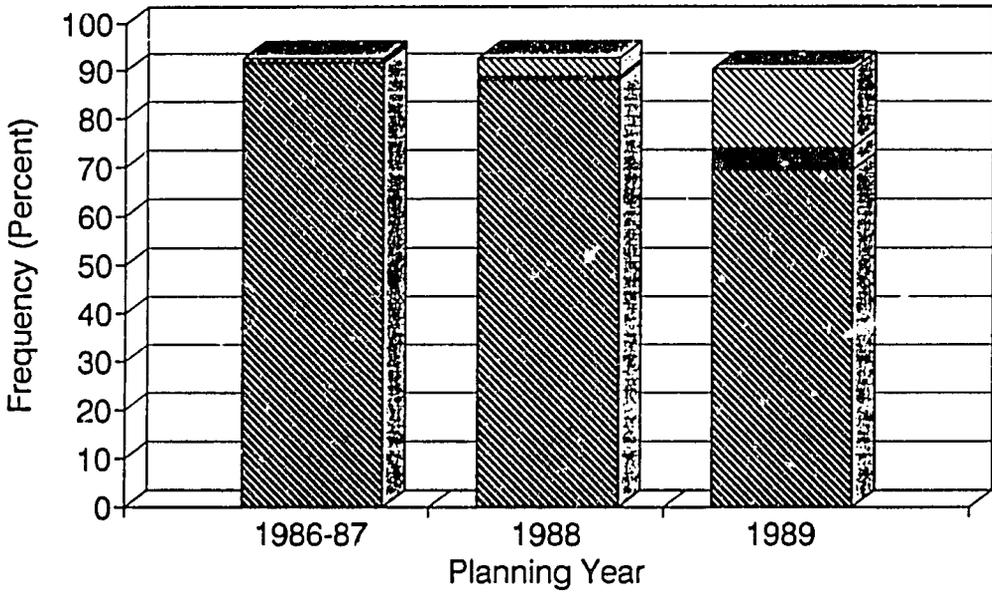
Figure 10 shows that only 62.2 percent of large subprojects are classified "Completed and Fully Operational," whereas 84.0 percent of all small subprojects fall in this category.

By Linkage

Figure 11 shows the frequency distribution of operational status according to whether the subproject is linked to another subproject to form a larger physical system. Little variation in operational status is associated with linkage except for the fact that no linked subprojects fall in the "Status Unknown" category, whereas 3.9 percent of the unlinked subprojects do.

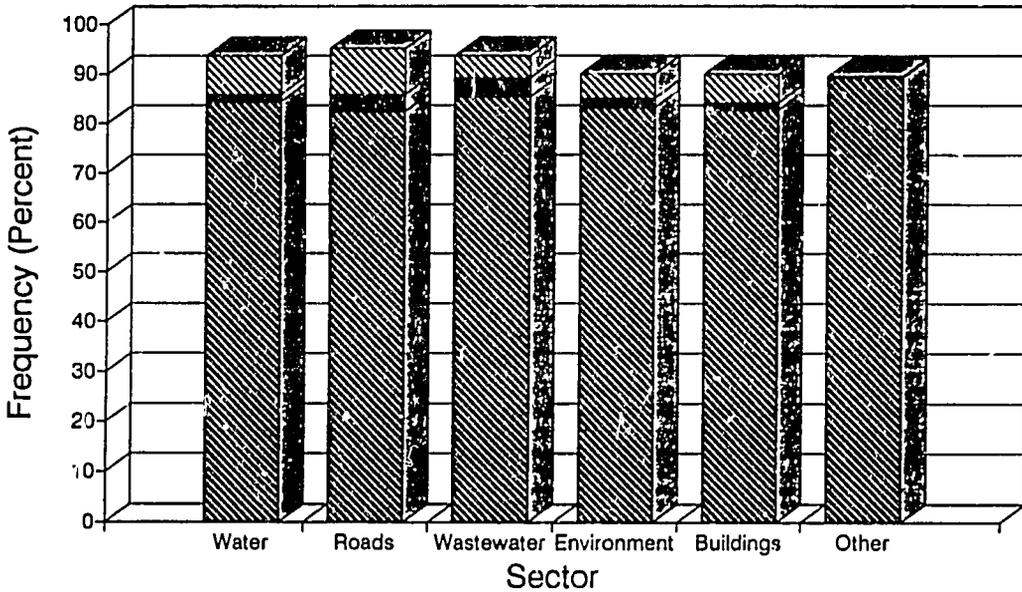
Appendix B presents several additional tables dealing with operational status (operational status by governorate and planning year; operational status by sector and planning year; and operational status by governorate, planning year, and sector). Appendix B also includes a number of tables that show the distribution of funds by operational status and other subproject characteristics (e.g., sector, size, and governorate).

Figure 8. Distribution of Subproject Operational Status by Planning Year



 Compl. Fully Opnl.  Uncomp., Multiyear  Uncompleted

Figure 9. Distribution of Subproject Operational Status by Sector



Compl., Fully Opnl. Uncomp., Multiyear Uncompleted

Figure 10. Distribution of Subproject Operational Status by Size

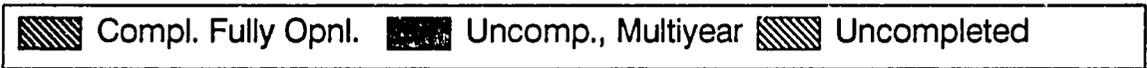
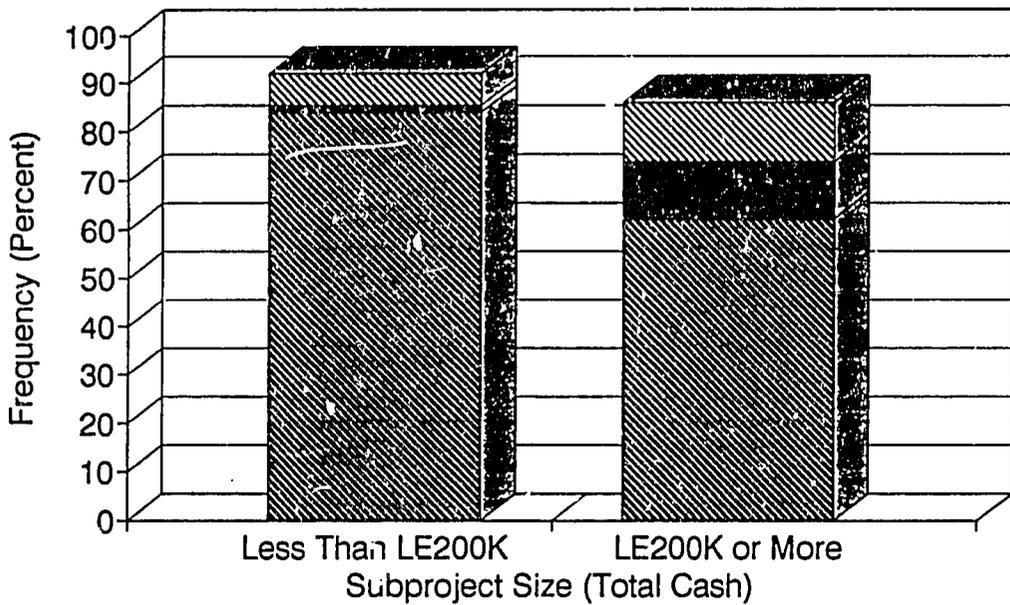
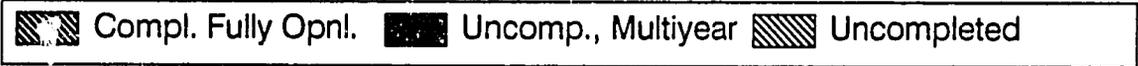
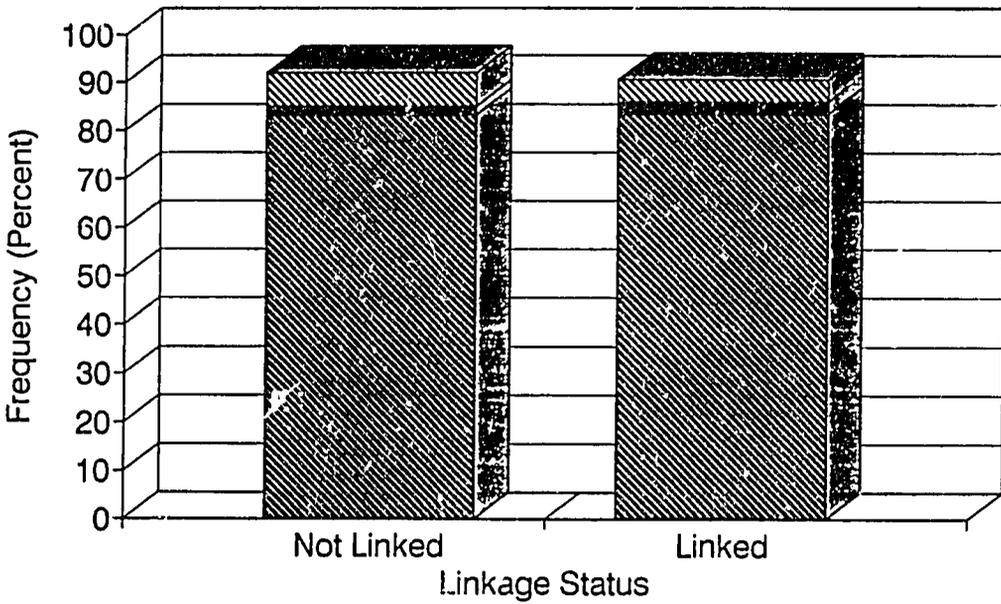


Fig. 11. Distn. of Subproject Opnl. Status by Linkage to Other Projects



REASONS FOR NONOPERATIONAL STATUS

For subprojects that were not complete or were not operational, governorate personnel were to indicate up to three reasons for the uncompleted or nonoperational status. These reasons are referred to in this report as First Reason, Second Reason, and Third Reason.

Omitted and Inappropriately Reported Reasons

Table 4 presents the frequency distribution of subprojects by first reason given. This table includes all 10,651 subprojects. The key item to note in this table is that no reason was reported for 556 subprojects classified as not fully operational. That is, reasons were provided for only 861 out of 1417 not fully operational subprojects (60.7 percent response rate). This high level of nonresponse for reason codes makes it difficult to interpret the reason code data with a high degree of certainty. Table 5 describes the frequency distribution of subprojects by first reason category for all 956 subprojects for which a first reason was reported.⁷

The original intent of the survey was that reasons would be specified only for subprojects that were not complete or not operational. As seen from Table 5, however, a reason was indicated for 95 *fully operational* subprojects. A review was conducted of all questionnaires for these 95 subprojects, to see what comments were provided. In most cases, no explanation was given. A plausible explanation for the reporting of reasons for fully operational subprojects is that the term operational was interpreted to mean *capable of being operated* (i.e., operable) rather than *operating*. An alternative explanation is that, although the subproject was classified as operational, there was some problem associated with its operation that warrants consideration.

Because of the uncertainty of the 95 subprojects that were classified as fully operational yet were given reason codes, it is necessary to make a decision concerning how to treat them in the subsequent analysis. After presenting a comparison of the distribution of reason codes for the fully operational and not fully operational classifications, the reason data will be combined for these operational status categories.

⁷The three most frequently cited first reasons are "project over budget" (27.6 percent), "unqualified contractor" (11.0 percent), and "no technical know-how" (9.9 percent). The various other reasons have low individual frequencies of occurrence, but they represent a large proportion of subprojects (51.5 percent).

Table 4

Distribution of Subprojects by Operational Status and First Reason

	Frequency	
	Count	Percent
Operational Status Unknown		
First Reason		
No response.....	349	3.3%
Total.....	349	3.3%
Fully Operational		
First Reason		
No response.....	8790	82.5%
Project over budget.....	11	.1%
Lack of oper. funds.....	14	.1%
Other financial.....	3	.0%
Unqualified contractor.....	1	.0%
Improper design.....	1	.0%
No tech. know how.....	62	.6%
Parts unavailable.....	1	.0%
Other logistical.....	1	.0%
Other administrative.....	1	.0%
Total.....	8885	83.4%
Not Fully Operational		
First Reason		
No response.....	556	5.2%
Delayed LDII-P funds.....	6	.1%
Delayed non LD funds.....	14	.1%
No vil. accounting unit.....	2	.0%
Project over budget.....	264	2.5%
Lack of oper. funds.....	25	.2%
Other financial.....	70	.7%
Unqualified contractor.....	105	1.0%
Contractor replaced.....	12	.1%
No bids.....	40	.4%
Other contractor.....	68	.6%
Improper design.....	10	.1%
Design change.....	15	.1%
No tech. assistance.....	13	.1%
No tech. know how.....	95	.9%
Other technical.....	13	.1%
Parts unavailable.....	12	.1%
Other logistical.....	10	.1%
Conflict with other projects	6	.1%
Lack of permits.....	19	.2%
Lack of cooperation.....	9	.1%
Plan change.....	12	.1%
Other administrative.....	41	.4%
Total.....	1417	13.3%
Grand Total.....	10651	100.0%

Table 5

Distribution of Subprojects by Operational Status and First Reason
(for Subprojects for Which First Reason Was Indicated)

	Frequency	
	Count	Percent
Operational Status		
Fully Operational		
First Reason		
Project over budget.....	11	1.2%
Lack of oper. funds.....	14	1.5%
Other financial.....	3	.3%
Unqualified contractor.....	1	.1%
Improper design.....	1	.1%
No tech. know how.....	62	6.5%
Parts unavailable.....	1	.1%
Other logistical.....	1	.1%
Other administrative.....	1	.1%
Total.....	95	9.9%
Not Fully Operational		
First Reason		
Delayed LDII-P funds.....	6	.6%
Delayed non LD funds.....	14	1.5%
No vil. accounting unit.....	2	.2%
Project over budget.....	264	27.6%
Lack of oper. funds.....	25	2.6%
Other financial.....	70	7.3%
Unqualified contractor.....	105	11.0%
Contractor replaced.....	12	1.3%
No bids.....	40	4.2%
Other contractor.....	52	7.1%
Improper design.....	10	1.0%
Design change.....	15	1.6%
No tech. assistance.....	13	1.4%
No tech. know how.....	95	9.9%
Other technical.....	13	1.4%
Parts unavailable.....	12	1.3%
Other logistical.....	10	1.0%
Conflict with other projects	6	.6%
Lack of permits.....	19	2.0%
Lack of cooperation.....	9	.9%
Plan change.....	12	1.3%
Other administrative.....	41	4.3%
Total.....	861	90.1%
Grand Total.....	956	100.0%

As was noted above, of the 1417 not-fully-operational (nonoperational) subprojects, there are 556 for which no reason was given ("No Response"), leaving 861 with reasons. The total number of subprojects having reasons is $95 + 861 = 956$.

The low reason response rate (61 percent) makes interpretation of the reason code data difficult, and an effort was made to understand the reason for the low response. In an attempt to answer the question of why reason codes were omitted for such a large proportion of nonoperational subprojects, it was hypothesized that having no reason code to apply to subprojects under development and on schedule may have contributed to this high level of nonresponse. However, the nonresponse rate for the most recent planning year (1989) was not much higher than for the earlier years, so this hypothesis was not substantiated. The data collection forms for the nonresponding observations were reviewed for explanation, but no explanation was found.

Tables showing the frequency distributions of the second and third reasons are included in Appendix B.

Second and third reasons were provided a relatively small proportion of the time (246 second reasons and 126 third reasons, vs. 956 first reasons), and few second and third reasons have high frequencies of occurrence.

Distribution of Reasons for Nonoperation

Table 6 presents the frequency distribution of first reason for all 956 subprojects for which the first reason was reported (i.e., combining the operational and nonoperational subprojects together). Note that this table groups the various reason codes into five reason classes: financial, contractor, technical, logistical, and administrative. The reason codes falling into each class are specified on the instrumentation included in Appendix A.

Since the incidence of second and third reasons is low, we shall henceforth address only Reason 1. That is, in the tables that follow, the term "Reason Class" refers to Reason 1.

By Reason Class

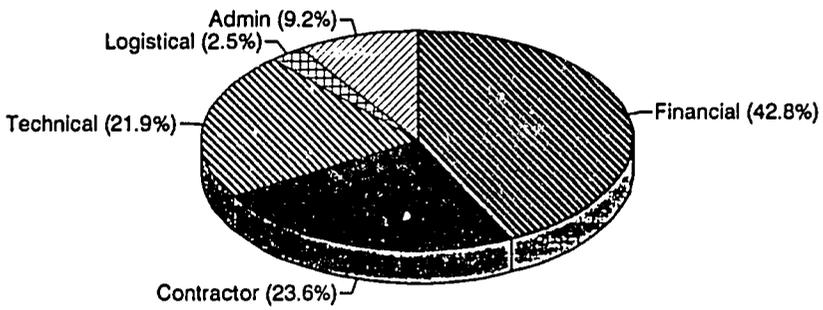
Figure 12 shows the frequency distribution of subprojects by reason class. This figure shows that the major reasons are Financial (42.8 percent), Contractor (23.6 percent) and Technical (21.9 percent).

Table 6

Distribution of Subprojects by First Reason
(for Subprojects for Which First Reason Has Indicated)

	Frequency	
	Count	Percent
Reason Class		
Financial		
First Reason		
Delayed LDII-P funds.....	6	.6%
Delayed non LD funds.....	14	1.5%
No vll. accounting unit.....	2	.2%
Project over budget.....	275	28.8%
Lack of oper. funds.....	39	4.1%
Other financial.....	73	7.6%
Total.....	409	42.8%
Contractor		
First Reason		
Unqualified contractor.....	106	11.1%
Contractor replaced.....	12	1.3%
No bids.....	40	4.2%
Other contractor.....	68	7.1%
Total.....	226	23.6%
Technical		
First Reason		
Improper design.....	11	1.2%
Design change.....	15	1.6%
No tech. assistance.....	13	1.4%
No tech. know how.....	157	16.4%
Other technical.....	13	1.4%
Total.....	209	21.9%
Logistical		
First Reason		
Parts unavailable.....	13	1.4%
Other logistical.....	11	1.2%
Total.....	24	2.5%
Administrative		
First Reason		
Conflict with other projects	6	.6%
Lack of permits.....	19	2.0%
Lack of cooperation.....	9	.9%
Plan change.....	12	1.3%
Other administrative.....	42	4.4%
Total.....	88	9.2%
Grand Total.....	956	100.0%

Figure 12. Distribution of Subprojects by Reason Class



By Operational Status Figure 13 compares the frequency distribution of reason class by operational status. This figure shows substantial differences in these distributions. For fully operational subprojects, the major reason class is Technical (66.3 percent), whereas for not fully operational subprojects the major reason class is financial (44.3 percent).

By Sector Figure 14 shows that the distribution of reason class varies substantially over the sectors. The "Contractor" Reason Class is the largest one for the water, roads, environment and "Other" sectors, whereas the "Financial" Reason Class is largest for the wastewater and buildings sectors.

In Comparison with 1983 The data presented in Figure 14 may be compared to similar data collected in a 1983 survey of incomplete or nonoperational subprojects in three governorates. In the 1983 survey, projects were classified in five reason classes (Financial, Contractor, Technical, Logistical, and Administrative). Figure 15 shows that in 1983 the Logistical reason class was the most frequently cited for water projects, and Contractor was cited most frequently for roads projects.

By Planning Year Figure 16 shows substantial variations in the frequency distribution of Reason Class by planning year. The "Contractor" Reason Class is much larger for 1989 than for 1986-87. This is expected, since more of the 1989 subprojects are still under contract. The "Technical" class is the largest class in planning year 1986-87, and the "Financial" class is the largest one for the two later years.

By Subproject Size Figure 17 shows that larger subprojects have a much lower frequency of occurrence in the Technical Reason Class than do smaller subprojects. This is expected, since larger subprojects are expected to receive more attention and technical assistance.

By Subproject Linkage Figure 18 shows a similar distribution of Reason Class for linked and unlinked subprojects, with fewer subprojects falling in the Technical class for unlinked than for linked subprojects (17.4 percent vs. 34.4 percent).

Appendix B includes a table showing reason class by governorate. The variations over the governorates are substantial. These substantial variations may be due to differences in governorate evaluation procedures. In many cases the large variation in percentages simply reflects the small cell sizes of the crosstabulation (i.e., a crosstabulation of 956 items into a large number of categories).

Figure 13. Distribution of Reason Class by Operational Status

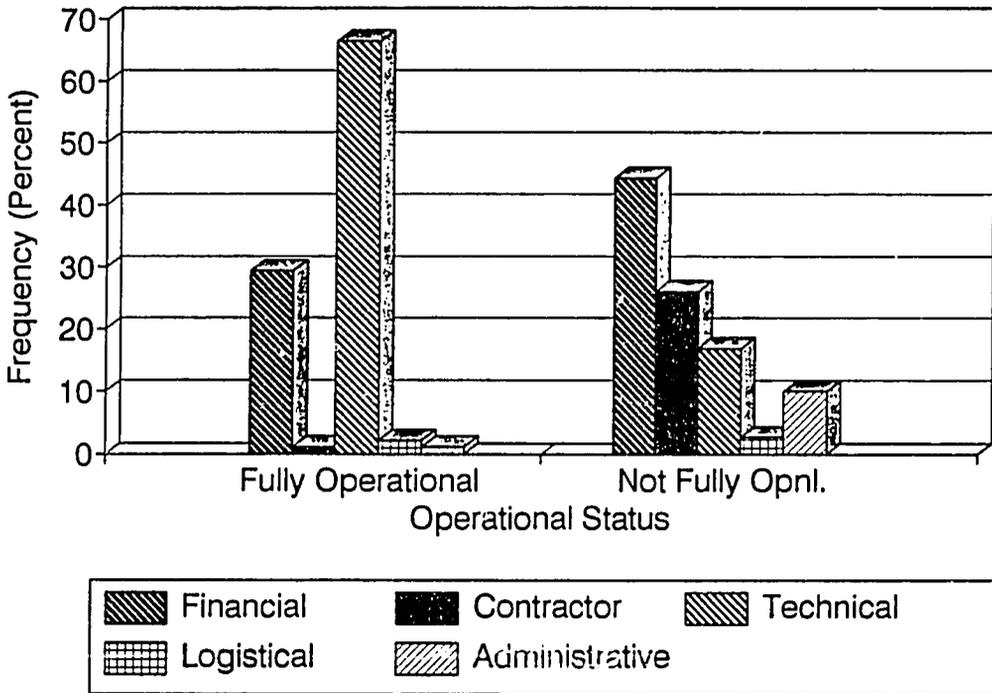


Figure 14. Distribution of Reason Class by Sector

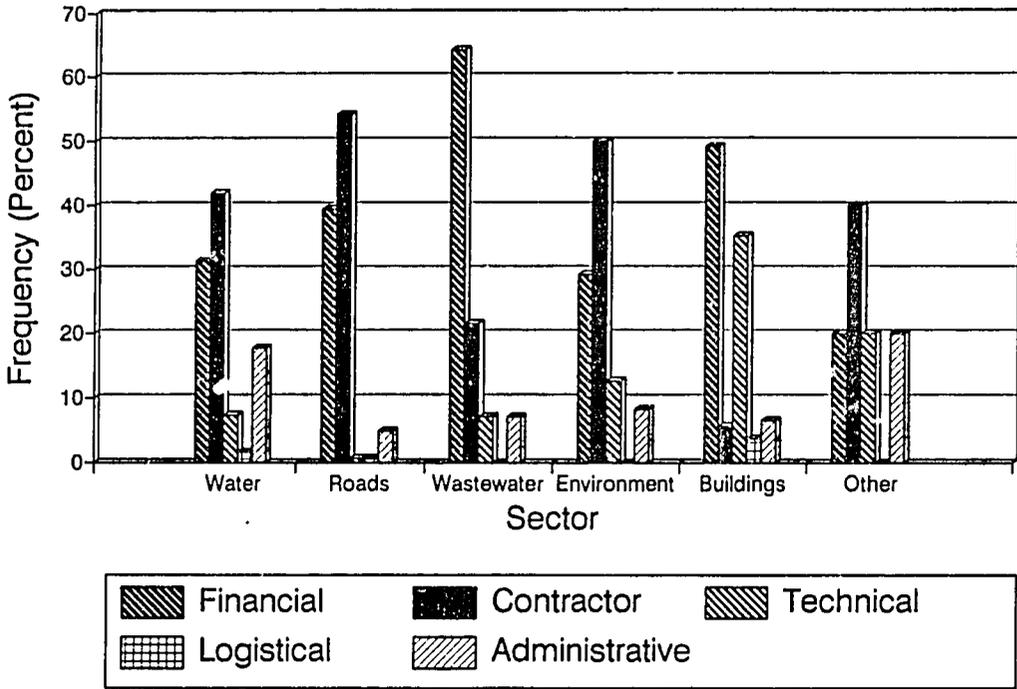


Figure 15. Distn. of Reason Class by Sector, 1983 Srvy. of Nonopnl. Subprjs.

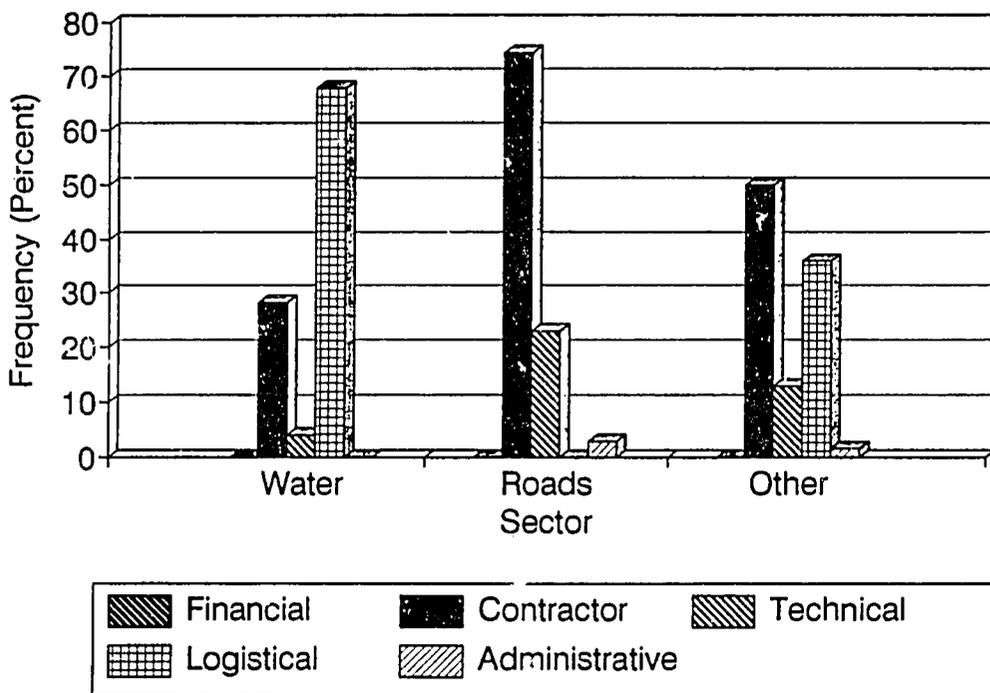


Figure 16. Distribution of Reason Class by Planning Year

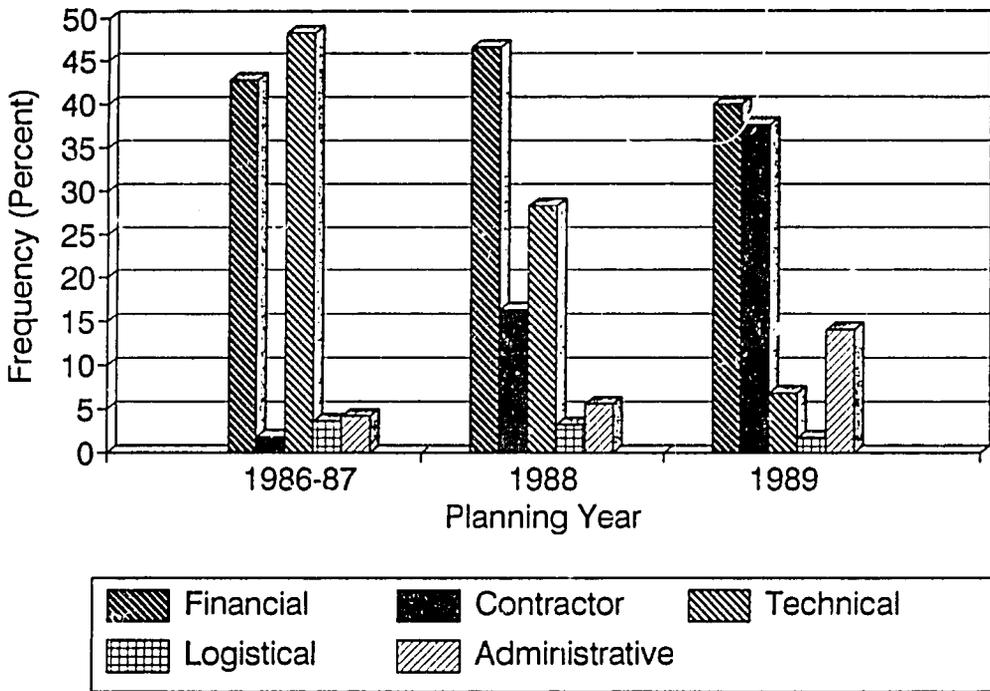


Figure 17. Distribution of Reason Class by Size

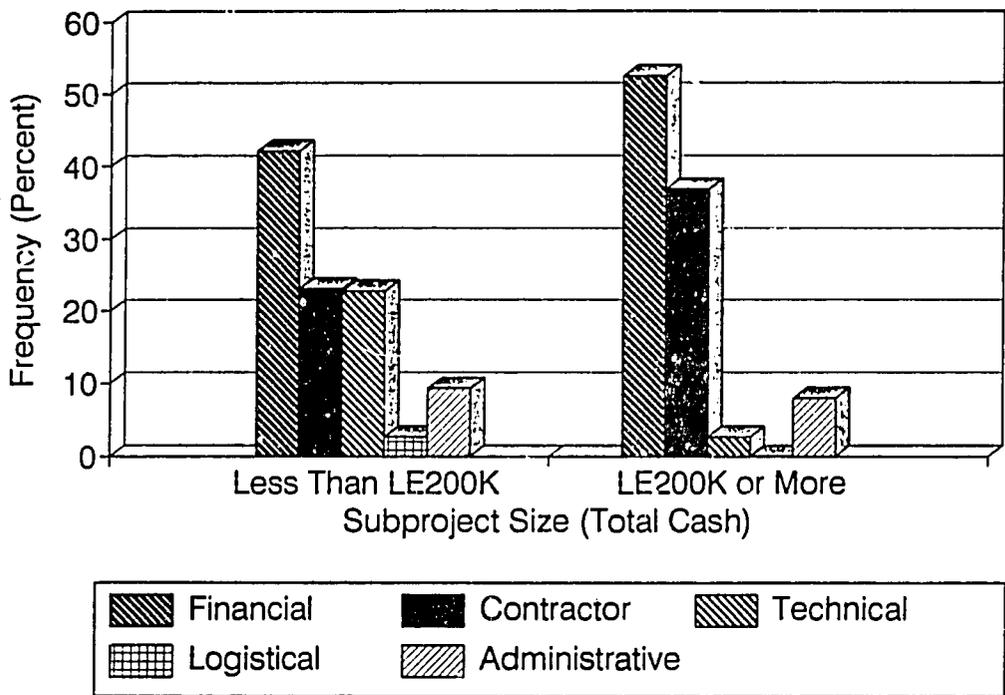
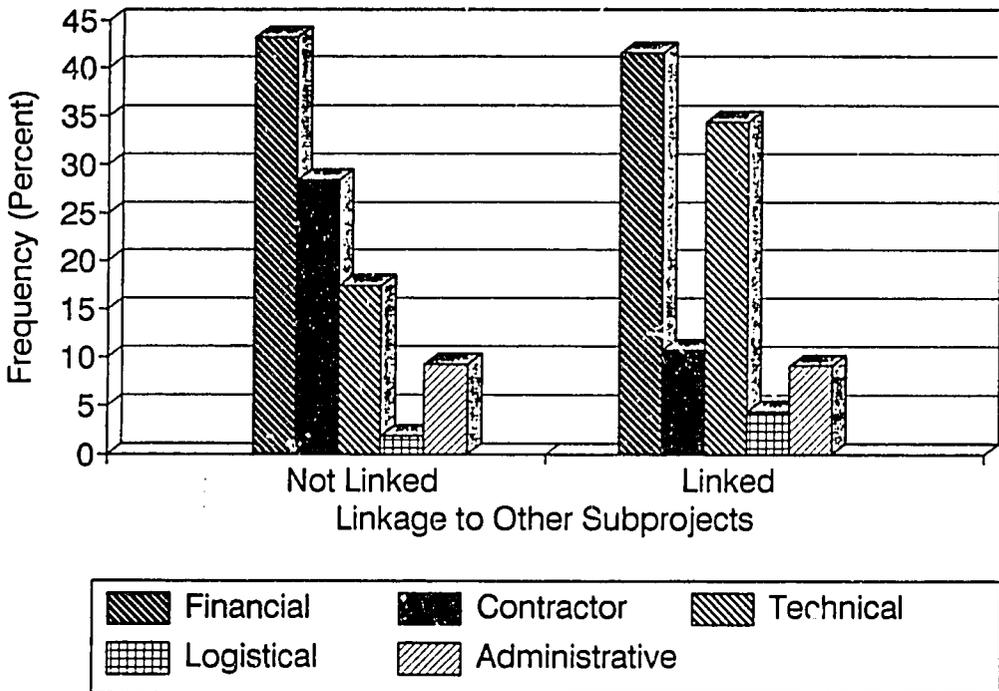


Figure 18. Distribution of Reason Class by Linkage to Other Subprojects



FUNDS NEEDED TO COMPLETE OR OPERATE SUBPROJECTS

In analyzing the funds needed to complete or operate subprojects, two extreme "outliers," one a value of LE5,000,000 in the capital funds distribution and the other LE3,500,000 in the operation funds distribution, are excluded.

Table 7 shows the distribution of capital funds needed to complete subprojects and bring them to operational status, and the distribution of operation and maintenance funds needed per year.

Table 7 Distribution of Funds Needed to Complete or Operate the Subproject, by Governorate -- Two Outliers Deleted

	Capital Funds				Operation Funds			
	Count	%	LE	%	Count	%	LE	%
Governorate								
Asswan.....	499	4.7%	1,842,000	6.3%	499	4.7%	0	.0%
Assyout.....	501	4.7%	1,542,791	5.2%	501	4.7%	40,320	.6%
Beheira.....	693	6.5%	4,433,525	15.1%	693	6.5%	37,000	.8%
Beni Suef.....	763	7.2%	12,000	.0%	763	7.2%	1,195,041	24.8%
Damietta.....	444	4.2%	824,800	2.8%	444	4.2%	0	.0%
Daqahliya.....	422	4.0%	0	.0%	422	4.0%	0	.0%
Fayoum.....	453	4.3%	722,500	2.5%	453	4.3%	16,000	.3%
Gharbiya.....	763	7.2%	0	.0%	763	7.2%	0	.0%
Giza.....	442	4.2%	1,112,559	3.8%	442	4.2%	1,019,000	21.2%
Ismailia.....	167	1.6%	1,250,000	4.3%	167	1.6%	90,000	1.9%
Kafr El Sheikh.....	825	7.7%	5,714,100	19.4%	825	7.7%	0	.0%
Matrouh.....	268	2.5%	190,000	.6%	268	2.5%	0	.0%
Menoufiya.....	658	6.2%	225,751	.8%	658	6.2%	35,000	.7%
Minya.....	574	5.4%	3,708,217	12.6%	574	5.4%	1,017,390	21.1%
New Valley.....	142	1.3%	2,179,800	7.4%	142	1.3%	811,535	16.8%
North Sinai.....	358	3.4%	19,528	.1%	358	3.4%	35,000	.7%
Qalubiyah.....	339	3.2%	1,575,000	5.4%	339	3.2%	251,650	5.2%
Qena.....	761	7.1%	0	.0%	761	7.1%	0	.0%
Red Sea.....	117	1.1%	0	.0%	117	1.1%	0	.0%
Sharqiyah.....	803	7.5%	2,843,174	9.7%	803	7.5%	231,678	4.8%
Sohag.....	601	5.6%	472,110	1.6%	601	5.6%	38,000	.8%
South Sinai.....	56	.5%	723,315	2.5%	56	.5%	0	.0%
Total.....	10649	100.0%	29,391,170	100.0%	10649	100.0%	4,817,614	100.0%

Nationwide, the total amount of capital funds required is LE29.4 million, and the total amount of operating funds is LE4.8 million. Comparing the funds needed data of Table 7 to fund allocations by governorate (Figure 3), we see that the three governorates having the largest capital fund requirements (Beheira, Fayoum, and Kafr El Sheikh) receive among the highest allocations of AID funds.

There are a substantial number of zero entries in Table 7; four governorates estimate no capital funds needed, and nine governorates estimate no operation funds needed. Because of the substantial number of zero entries in Table 7, the data are suspect. This situation suggests that governorate staff in different governorates used different criteria for estimating capital and operating fund requirements. The effect of differences in the governorates in completing the questionnaires would be greater in Table 7 than in the other tables discussed in the following paragraphs. Table 7 presents results by governorate, whereas the following tables present results over factors that cross all governorates (e.g., sector, size).

Ratios of Funding Requirements to Total Allocations

By Sector

Table 8 shows the funding requirements by sector. The ratio of capital funds required to the total allocation can be found by comparing Table 8 and Figure 2. This ratio is 6.0 percent overall; for the sectors this ratio has the values 3.6 percent (water), 7.0 percent (roads), 27.1 percent (wastewater), 3.6 percent (environment), 7.4 percent (buildings), and 0.0 percent (other). This set of statistics shows that among the sectors, the wastewater sector requires the greatest additional investment, according to governorate estimates.

Table 8 Distribution of Funds Needed to Complete or Operate the Subproject, by Sector -- Two Outliers Deleted

	Capital Funds				Operation Funds			
	Count	%	LE	%	Count	%	LE	%
Sector								
Water.....	3465	32.5%	6,143,197	20.9%	3465	32.5%	1,829,576	38.0%
Roads.....	1777	16.7%	10,228,321	34.8%	1777	16.7%	960,913	19.9%
Wastewater.....	377	3.5%	4,777,600	16.3%	377	3.5%	174,650	3.6%
Environment.....	666	6.3%	939,000	3.2%	666	6.3%	91,894	1.9%
Buildings.....	4106	38.6%	7,274,537	24.8%	4106	38.6%	1,760,081	36.5%
Others.....	258	2.4%	28,515	.1%	258	2.4%	500	.0%
Total.....	10649	100.0%	29,391,170	100.0%	10649	100.0%	4,817,614	100.0%

By Subproject Size

Table 9 shows the funding requirements by subproject size. Comparing Table 9 and Figure 1, the ratio of capital funds needed to total AID funds is seen to be 5.1 percent for small subprojects and 9.3 percent for large subprojects. The ratio of operating funds needed to total AID funds is .98 percent overall, 1.1 percent for small subprojects, and .69 percent for large subprojects.

Table 9

Distribution of Funds Needed to Complete or Operate the Subproject,
by Size -- Two Outliers Deleted

	Capital Funds				Operation Funds			
	Count	%	LE	%	Count	%	LE	%
Size of Total Cash								
Less Than LE200K....	10373	97.4%	20,103,210	68.4%	10373	97.4%	4,132,869	85.8%
LE200K or More.....	276	2.6%	9,287,960	31.6%	276	2.6%	684,745	14.2%
Total.....	10649	100.0%	29,391,170	100.0%	10649	100.0%	4,817,614	100.0%

By Reason Class

Table 10 shows the distribution of needed capital and operating funds by reason class. Note that almost half of the needed capital funding (LE 11.0 million out of LE 29.4 million) is associated with subprojects for which no reason was cited, and almost half of the needed operating funding (LE 3.2 million out of LE 4.8 million) is associated with subprojects for which no reason was cited. By far the largest amounts of needed funding are associated with financial problems.

Table 10

Distribution of Funds Needed to Complete or Operate the Subproject,
by Reason Class -- Two Outliers Deleted

Reason Class	Capital Funds				Operation Funds			
	Count	%	LE	%	Count	%	LE	%
No Response.....	9694	91.0%	10,961,938	37.3%	9694	91.0%	3,176,967	65.9%
Financial.....	409	3.8%	16,485,332	56.1%	409	3.8%	1,422,627	29.5%
Contractor.....	226	2.1%	1,517,400	5.2%	226	2.1%	79,100	1.6%
Technical.....	209	2.0%	164,000	.6%	209	2.0%	116,300	2.4%
Logistical.....	24	.2%	150,000	.5%	24	.2%	12,620	.3%
Administrative.....	87	.8%	112,500	.4%	87	.8%	10,000	.2%
Total.....	10649	100.0%	29,391,170	100.0%	10649	100.0%	4,817,614	100.0%

The estimates presented in Tables 7-9 are suspect, because of the wide variation observed in the governorate estimates of operational status and because of the wide variations in the proportion of subprojects needing additional funds, and in the amount of the needed funds estimates. To obtain a more useful estimate of needed funds, an analysis was conducted of

the ratio of the funds estimates for each subproject to the subproject's funding size (total cash).

Ratios of Funding Requirements to Subproject Cash Investment

For each subproject for which the total cash is nonzero (i.e., for every non-cancelled subproject), the following ratios were computed:

$$\text{RATCAP} = (\text{capital funds required to complete the subproject and bring it to operational status}) / (\text{total cash investment in subproject})$$

$$\text{RATOPER} = (\text{operations and maintenance funds required per year}) / (\text{total cash investment in subproject})$$

Capital to Cash Investment

Table 11 shows the frequency distribution of RATCAP. Ninety-five percent (95.4 percent) of all subprojects have a value of zero for this ratio, reflecting the large proportion of subprojects that are operational. However, although less than 5 percent of all subprojects need funds for completion and operationalization, a striking feature of this distribution is the large number of subprojects—194 in all (1.8 percent)—for which this ratio exceeds one. In fact, for a number of subprojects the ratio is as high as 10, and one subproject has the ratio 29.4. These ratios are not credible. For the total subproject population, the ratio of total capital funds needed to total cash is just 6.0 percent, or .06. This would suggest that either the data were recorded in error or there was a problem in communicating what was to be estimated to governorate personnel. A possible explanation is that governorate personnel estimated the capital funds needed to bring the *entire physical project* to completion, not just the *subproject*.

Table 11 Distribution of Subprojects and Capital Funds Needed by Ratio (RATCAP) of Capital Funds Needed to Subproject Total Cash

	Capital Funds			
	Count	Percent	Cap. Funds (LE)	Percent
RATCAP				
Zero or Undefined.....	10159	95.4%	0	.0%
0+ - .25.....	80	.8%	844,651	2.9%
.25+ - .50.....	81	.8%	1,395,830	4.7%
.50+ - .75.....	74	.7%	3,223,596	11.0%
.75+ - 1.00.....	62	.6%	3,100,401	10.5%
1.00+ - 2.00.....	98	.9%	10,126,080	34.5%
2.00+ - 5.00.....	70	.7%	8,755,395	29.8%
5.00+ - 10.00.....	16	.2%	1,133,800	3.9%
10.00+ - 20.00.....	8	.1%	511,417	1.7%
Over 20.00.....	1	.0%	300,000	1.0%
Total.....	10649	100.0%	29,391,170	100.0%

O&M Funds to Cash Investment

Table 12 shows the frequency distribution of RATOPER. Ninety-three percent (93.3 percent) of all subprojects have a value of zero for the ratio of O&M funds needed per year to subproject total cash. This high percentage may reflect a lack of awareness on the part of the governorates for the need for O&M. In most cases, if a project was completed and operational, the O&M fund needs was estimated as zero. It is possible that governorate personnel did not understand that O&M fund estimates were desired for *all* subprojects, not just nonoperational or uncompleted subprojects.

As was the case for capital funds, however, the ratio of operating fund requirements to subproject investment is very high for some subprojects, with 183 (1.7 percent) of the subproject-needed O&M funds estimates exceeding 10 percent of the subproject total cash investment. Recall that for the total population the ratio of total O&M funds needed to total cash is .98 percent, or about .01.

Table 12 Distribution of Subprojects and O&M Funds Needed Per Year by Ratio (RATOPER) of O&M Funds Needed Per Year to Subproject Total Cash

	Operation Funds			
	Count	Percent	O&M Funds (LE)	Percent
RATOPER				
Zero or Undefined.....	9937	93.3%	0	.0%
0+ - .05.....	243	2.3%	359,585	7.5%
.05+ - .10.....	287	2.7%	763,622	15.9%
.10+ - .20.....	72	.7%	357,198	7.4%
.20+ - .50.....	54	.5%	668,744	13.9%
.50+ - 1.00.....	17	.2%	471,132	9.8%
1.00+ - 2.00.....	15	.1%	824,619	17.1%
2.00+ - 5.00.....	15	.1%	587,576	12.2%
5.00+ - 10.00.....	8	.1%	645,348	13.4%
Over 20.00.....	1	.0%	139,790	2.9%
Total.....	10649	100.0%	4,817,614	100.0%

A review was made of the data collection forms to make certain that no data entry error had occurred, and to see if any explanation had been noted, for about twenty subprojects having the largest values of RATCAP and RATOPER. No data errors or explanations were found.

Treatment of Suspect Funding Requirements

The problem that arises is that although relatively few subprojects are suspect (i.e., approximately 200, or 2 percent or all subprojects), the amount of funds needed to complete or

operate these subprojects is quite substantial (because RATCAP and RATOPER are large), so they have a significant effect on the estimate of the total funds required to complete, operationalize, or operate and maintain the subprojects. In the course of follow-up to the nonoperational LD II-P subprojects, this problem may be resolved. For the present data analysis, two options were considered: (1) omit all suspect (high-ratio) values from the analysis; or (2) replace each suspect value by an "upper bound." A drawback with option 1 is that the suspect observations likely have *some* needed funds; omitting them entirely is equivalent to setting the needed funds estimate equal to zero, and this was considered unreasonable. Hence, option 2 was adopted.

For the capital funds data, any needed-funds estimate that exceeds 100 percent of the subproject's total cash value was replaced by that value. For the operation funds data, any needed-funds estimate that exceeds 10 percent of the subproject's total cash value was replaced by 10 percent times the total cash value. The estimates of totals obtained by adjusting the data are referred to as "truncated estimates."

Tables 13 - 16 present the same distributions as were presented in Tables 7 - 10 but using the "truncated" data. The truncation process substantially reduces the needed-funds estimates. When the truncated estimates are used, the total capital funds needed is reduced from LE 29.4 million to LE 19.4 million, and the total operation funds estimate is reduced from LE 4.8 million to LE 1.8 million.

In view of the substantial difference in the "two outliers deleted" and the "truncated estimates" totals, not much confidence may be placed in these estimates of funding needs. In any event, these totals characterize the needed funds estimates as presented by the governorates. Until additional information is obtained, however, these values are suspect, if viewed as estimates of the actual funds needed.

Table 13

Distribution of Funds Needed to Complete or Operate the Subproject,
by Governorate -- Truncated Estimates

	Capital Funds				Operation Funds			
	Count	%	LE	%	Count	%	LE	%
Governorate								
Asswan.....	499	4.7%	641,000	3.3%	499	4.7%	0	.0%
Assyout.....	501	4.7%	904,790	4.7%	501	4.7%	1,320	.1%
Behaira.....	693	6.5%	2,290,658	11.8%	693	6.5%	30,965	1.7%
Beni Suef.....	763	7.2%	1,602	.0%	763	7.2%	208,172	11.5%
Damietta.....	444	4.2%	612,800	3.2%	444	4.2%	0	.0%
Oaqahliya.....	422	4.0%	0	.0%	422	4.0%	0	.0%
Fayoum.....	454	4.3%	1,647,510	8.5%	454	4.3%	7,000	.4%
Gharbiya.....	763	7.2%	0	.0%	763	7.2%	0	.0%
Giza.....	442	4.1%	669,459	3.5%	442	4.1%	106,780	5.9%
Ismailia.....	167	1.6%	902,000	4.7%	167	1.6%	16,800	.9%
Kafr El Sheikh.....	825	7.7%	4,322,926	22.3%	825	7.7%	0	.0%
Matrouh.....	268	2.5%	190,000	1.0%	268	2.5%	0	.0%
Menufiya.....	658	6.2%	164,081	.8%	658	6.2%	14,100	.8%
Minya.....	574	5.4%	1,690,084	8.7%	574	5.4%	960,970	53.2%
New Valley.....	142	1.3%	1,549,000	8.0%	142	1.3%	171,643	9.5%
North Sinai.....	358	3.4%	19,528	.1%	358	3.4%	4,950	.3%
Qalubiya.....	340	3.2%	1,075,000	5.6%	340	3.2%	114,600	6.3%
Qena.....	761	7.1%	0	.0%	761	7.1%	0	.0%
Red Sea.....	117	1.1%	0	.0%	117	1.1%	0	.0%
Sharqiya.....	803	7.5%	1,768,702	9.1%	803	7.5%	139,935	7.7%
Sohag.....	601	5.6%	228,902	1.2%	601	5.6%	28,937	1.6%
South Sinai.....	56	.5%	680,955	3.5%	56	.5%	0	.0%
Total.....	10651	100.0%	19,358,997	100.0%	10651	100.0%	1,806,171	100.0%

Table 14 Distribution of Funds Needed to Complete or Operate the Subproject, by Sector -- Truncated Estimates

	Capital Funds				Operation Funds			
	Count	%	LE	%	Count	%	LE	%
Sector								
Water.....	3465	32.5%	3,740,698	19.3%	3465	32.5%	608,742	33.7%
Roads.....	1777	16.7%	5,294,395	27.3%	1777	16.7%	478,476	26.5%
Wastewater.....	379	3.6%	4,359,000	22.5%	379	3.6%	206,960	11.5%
Environment.....	666	6.3%	468,499	2.4%	666	6.3%	70,676	3.9%
Buildings.....	4106	38.6%	5,468,440	28.2%	4106	38.6%	440,817	24.4%
Others.....	258	2.4%	27,965	.1%	258	2.4%	500	.0%
Total.....	10651	100.0%	19,358,997	100.0%	10651	100.0%	1,806,171	100.0%

Table 15 Distribution of Funds Needed to Complete or Operate the Subproject, by Size -- Truncated Estimates

	Capital Funds				Operation Funds			
	Count	%	LE	%	Count	%	LE	%
Size of Total Cash								
Less Than LE200K....	10373	97.4%	12,091,197	62.5%	10373	97.4%	1,573,326	87.1%
LE200K or More.....	278	2.6%	7,267,800	37.5%	278	2.6%	232,845	12.9%
Total.....	10651	100.0%	19,358,997	100.0%	10651	100.0%	1,806,171	100.0%

Table 16 Distribution of Funds Needed to Complete or Operate the Subproject, by Reason Class -- Truncated Estimates

	Capital Funds				Operation Funds			
	Count	%	LE	%	Count	%	LE	%
Reason Class								
No Response.....	9695	91.0%	8,909,137	46.0%	9695	91.0%	1,300,487	72.0%
Financial.....	409	3.8%	9,279,160	47.9%	409	3.8%	342,674	19.0%
Contractor.....	226	2.1%	870,990	4.5%	226	2.1%	65,523	3.6%
Technical.....	209	2.0%	115,200	.6%	209	2.0%	30,837	1.7%
Logistical.....	24	.2%	117,000	.6%	24	.2%	6,651	.4%
Administrative.....	88	.8%	67,510	.3%	88	.8%	60,000	3.3%
Total.....	10651	100.0%	19,358,997	100.0%	10651	100.0%	1,806,171	100.0%

Section IV

Conclusions and Recommendations

CONCLUSIONS

The nonoperational projects survey provided some useful information about the operational status of LD II-P subprojects. The nature of the operational status of the subproject population has been described in this report, and lists of nonoperational subprojects have been provided to Chemonics field staff for follow up.

Although the collection of data from all of the governorates required about half a year, it is impressive that completed data collection forms were returned for all subprojects in the QPR data base, and we were able to match *every single record* of the survey data to corresponding records of the QPR data base.

A major shortcoming of the survey was the fact that the procedures used by the various governorates to provide the assessments requested by the survey questionnaire differed among the governorates, making it difficult to obtain valid comparisons of operational status and funds requirements among governorates.

The principal conclusion from the survey is that, based on governorate estimates, the overwhelming majority of subprojects are completed and operational, but that a considerable amount of funds is required to complete nonoperational subprojects and bring them to operational status, and maintain and operate them.

RECOMMENDATIONS

A major value of the nonoperational projects survey is the recommendations that can be drawn from this effort, in improving future evaluation and monitoring efforts of the LD II-P program. Based on the survey experience and the survey data analysis, a number of observations were made about the methodological procedures used to collect the data. These observations have been discussed in the text, and are summarized below. Most of the observations lead directly to recommendations for improvements to be used in future evaluation and monitoring efforts.

1. Key terms such as "completed," "operational," "funds needed to complete and bring to operational status," and "funds needed per year to maintain and operate" should be carefully defined, and data collection personnel well-trained in making accurate observations on these variables.
2. A distinction should be made between subprojects that are completed and those that are uncompleted. If a subproject is uncompleted but actively under development, on schedule, and within budget, no "reason" for noncomplete status is required. Reasons should be requested for stopped uncompleted subprojects; for nonoperational completed subprojects; for nonoperating operational completed subprojects; and for operating completed subprojects whose services are not satisfactory.
3. For any case in which the estimate of the needed funds to complete a subproject and bring it to operational status exceeds 25 percent of the original subproject investment, an explanation should be requested. If the estimate of the needed funds to maintain and operate a subproject exceed 10 percent of the original subproject investment, an explanation should be requested.
4. Relatively few subprojects have second and third reasons for incomplete or nonoperational status, and many of the reason categories used in this survey occur with low frequency. Consideration should be given to dropping a request for second or third reasons and reducing the number of reason categories.
5. Large variations were observed among the governorates with respect to assessment of nonoperational status and additional funding requirements. It is not known to what extent these differences are real vs. are due to differences in procedures used by data collection personnel. If governorate-to-governorate comparisons are important, consideration should be given to using an independent evaluation team and a sample survey to collect information.

Some governorates reported a very large proportion of nonoperational subprojects (up to 51.8 percent), whereas many governorates report no nonoperational subprojects. Four governorates did not report any subprojects as completed but not fully operational. A zero percent nonoperational subprojects rate is not credible. It may reflect a reluctance to report nonoperational status, or a misunderstanding of the intended meaning of the term nonoperational. From

the survey data, it is perhaps preferable to follow up all subprojects for which *reasons* were indicated, than to follow up only those indicated as nonoperational.

6. Substantial delays were experienced in obtaining the survey data from many governorates. Governorate responsiveness to this and similar requests should be considered as a measure of performance and taken into account in allocations of funding. Additionally, contractor personnel should be deployed in the field to check, on a sample basis, the quality and consistency of data collection and validity.
7. Operational status could not be determined for a large number of subprojects—349 subprojects in all, or 3.3 percent. It would be useful to know why the status was not determinable. In view of the substantial investment in the LD II-P subprojects, procedures should be developed to insure that the operational status of subprojects is known.
8. Improved methods for cost estimation should be developed and used (both for subproject planning and in estimating funds needed to complete, operationalize, operate, and maintain). Follow-up of 100 of the subprojects having the largest RATCAP and RATOPER values would be useful in this regard.
9. Listings of questionable subprojects are to be provided to the contractor's technical section and to the governorates to assess the reliability and validity of funds estimation and subproject status.
10. The QPR DBMS should be split into two distinct databases. One database should contain only projects that are fully operational (turned over) and this database used to obtain O&M funds requirements on an annual basis through Bab II funds. This would constitute the LD II-funded existing infrastructure. The second database would contain only projects under implementation, whose status should be regularly reported through the QPR.
11. Governorate personnel can be used in labor-intensive data collection and follow-up, but field control procedures for data quality checks must be provided through involvement of contractor personnel. A combination of governorate resources with contractor technical survey skills and quality control would be highly desirable in future surveys of this type.

APPENDICES

APPENDIX A

SURVEY INSTRUMENTATION

SURVEY OF SUBPROJECT STATUS

The following form must be completed by all governorates. It is intended to provide the Governorate, Provincial Development Committee (PLDC) and USAID with information required to take actions and earmark funds, technical assistance and other resources needed to bring previously funded projects to fully operational status. Project completion is a top priority among subproject categories authorized during the fourth-cycle of the LDII-P Program. You are kindly requested to complete this form as accurately as possible for all subprojects.

The form must be completed and returned to Chemonics, Cairo no later than three weeks following the end of the governorate orientation seminar held at your governorate.

Instructions:

The form lists all projects entered in the QPR for the first, second and third plan year. The governorate and markaz are listed on the upper right. Please correct any pre-printed information and add any projects which are not listed.

Column 1 - Project Serial Number a shortened serial number consisting of the plan year and the last three digits of the serial number.

Column 2 - Sector/project Type the type of project. For projects listed as "other", enter a brief description of the project type.

Column 3 - LDII Plan Year the plan year of the project.

Column 4 - Block Grant Allocation the amount of the block grant.

Column 5 - Total Funds Allocation the total allocated for the subproject.

Column 6 - Total Funds Spent total spent on the project as of 10/1/90.

Column 7 - % Spent percent of total funds spent as of 10/1/90.

Column 8 - Current Project Status The current subproject status. Fill-in the number of the choice below which best describes the current status of the subproject.

- 1 Completed and fully operational as planned.
- 2 Completed but partially or fully non-operational.
- 3 Not completed but part of a multi-year project.
- 4 Not completed and not operational.
- 5 Unusable.

Complete means that construction or implementation has been completed and that the project has been turned over by the contractor.

Operational means that the subproject is operating and serving the purpose for which it was constructed or implemented.

Unusable means that the subproject cannot be brought to operational status for its original purpose at reasonable cost or effort and should be dismantled, abandoned, or used for some other purpose..

Examples:

A water subproject has spent 100% of the allocation but construction has not been completed and the system is not providing water. Choose "4" - not completed and not operational.

The construction of a subproject is completed, but no funds are available for supplies such as fuel or treatment chemicals. Choose "2" completed but partially or fully non-operational.

The construction has been completed on this portion of a multi-year project but completion of the project overall will not happen until the end of this, or the next, plan year. Choose "3" not completed but part of a multi-year project.

The construction of the project is complete (or incomplete) but because of faulty design, or location, or construction, the project is unusable and cannot be made operational for its original purpose at reasonable cost. Choose "5" unusable.

Column 9 - Linked project Fill in the shortened serial number from Column 1 of other subprojects to which this one is related, for example other road sections, or other potable water supply subprojects. "Related" means that a functional link exists between the projects, two water subprojects which use the same water storage tank for example, or two subprojects in different plan years which are actually the same physical project. This column should be filled in for any subproject which is part of another subproject regardless of status.

Columns 10, 11 & 12 - Reasons for Incomplete or Non-operational Status Fill in with the number codes from the table on the following page which lists reasons for subprojects not being completed and fully operational. Fill in columns 10, 11 and 12 only for those projects which are not completed and/or not fully operational. Choose up to three reasons in order of importance. Column 10 will have the code of the most important reason, Columns 11 and 12, codes of less important reasons.

Columns 13 & 14 - Funds Needed for Completion and/or Operation If lack of funds is listed as a reason, give an estimate in Column 13 of any capital funds required to complete the project and bring it to operational status. If operating or maintenance funds are needed, estimate the amount per year required and put that amount in Column 14.

Column 15 - Remarks If codes for "Other" are chosen from reasons for subproject incompletion or non-operation, explain the reasons in Column 15.

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Operational means that the subproject is operating and serving the purpose for which it was constructed or implemented.

Unusable means that the subproject cannot be brought to operational status for its original purpose at reasonable cost or effort and should be dismantled, abandoned, or used for some other purpose..

Examples:

A water subproject has spent 100% of the allocation but construction has not been completed and the system is not providing water. Choose "4" - not completed and not operational.

The construction of a subproject is completed, but no funds are available for supplies such as fuel or treatment chemicals. Choose "2" completed but partially or fully non-operational.

The construction has been completed on this portion of a multi-year project but completion of the project overall will not happen until the end of this, or the next, plan year. Choose "3" not completed but part of a multi-year project.

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Columns 10, 11 & 12 - Reasons for Incomplete or Non-operational Status Fill in with the number codes from the table on the following page which lists reasons for subprojects not being completed and fully operational. Fill in columns 10, 11 and 12 only for those projects which are not completed and/or not fully operational. Choose up to three reasons in order of importance. Column 10 will have the code of the most important reason, Columns 11 and 12, codes of less important reasons.

Columns 13 & 14 - Funds Needed for Completion and/or Operation If lack of funds is listed as a reason, give an estimate in Column 13 of any capital funds required to complete the project and bring it to operational status. If operating or maintenance funds are needed, estimate the amount per year required and put that amount in Column 14.

Column 15 - Remarks If codes for "Other" are chosen from reasons for subproject incompleteness or non-operation, explain the reasons in Column 15.

Reasons for Incomplete and/or Non-operational Status of Subprojects

Financial

- 11 Delay in receiving LD IIP funds.
- 12 Delay in receiving non LD IIP funds.
- 13 Absence in village level accounting unit
- 14 Project over budget, cost underestimated
- 15 Lack of operation and/or maintenance funds
- 16 Other financial - explain

Contractor

- 21 Unqualified or defaulted contractor, project delayed or stopped.
- 22 Unqualified or defaulted contractor, new contractor selected.
- 23 Unable to get bids from qualified contractor.
- 24 Problems between contractor and subcontractors.
- 25 Other contractor - explain

Technical

- 31 Improper design; unable to complete without design changes.
- 32 Change in original plan or design caused delays.
- 33 Absence of adequate construction supervision or technical assistance from markaz or governorate level.
- 34 Lack of technical know how to operate and/or maintain project.
- 35 Other technical - explain

Logistical

- 41 Unavailability or delay in obtaining parts, equipment, supplies for reasons other than lack of funds
- 42 Other logistical - explain

Administrative

- 51 Conflict with other projects, coordination or design change needed
- 52 Lack of needed permits, inspections, disbursements or approvals
- 53 Lack of cooperation from various departments
- 54 Delay due to plan change or substitute project selected after disbursement
- 55 Other administrative - explain

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APPENDIX B

DETAILED TABLES

Distribution of AIO Funds (Total Cash) and Subprojects
by Size

	Count	Percent	Total Cash (LE)	Percent
Less Than LE200K.....	10373	97.4%	390,753,111	79.7%
LE200K or More.....	278	2.6%	99,756,655	20.3%
Total.....	10651	100.0%	490,509,766	100.0%

Distribution of AID Funds (Total Cash) and Subprojects
by Sector

	Count	Percent	Total Cash (LE)	Percent
Water.....	3465	32.5%	172,921,986	35.3%
Roads.....	1777	16.7%	145,587,671	29.7%
Wastewater.....	379	3.6%	36,154,361	7.4%
Environment.....	666	6.3%	25,835,491	5.3%
Buildings.....	4106	38.6%	97,926,885	20.0%
Others.....	258	2.4%	12,083,372	2.5%
Total.....	10651	100.0%	490,509,766	100.0%

Distribution of AID Funds (Total Cash) and Subprojects
by Sector and Size

	Count	Percent	Total Cash (LE)	Percent
Water				
Less Than LE200K.....	3403	32.0%	153,168,187	31.2%
LE200K or More.....	62	.6%	19,753,799	4.0%
Total.....	3465	32.5%	172,921,986	35.3%
Roads				
Less Than LE200K.....	1641	15.4%	97,411,376	19.9%
LE200K or More.....	136	1.3%	48,176,295	9.8%
Total.....	1777	16.7%	145,587,671	29.7%
Wastewater				
Less Than LE200K.....	335	3.1%	14,228,258	2.9%
LE200K or More.....	44	.4%	21,926,103	4.5%
Total.....	379	3.6%	36,154,361	7.4%
Environment				
Less Than LE200K.....	650	6.1%	21,851,903	4.5%
LE200K or More.....	16	.2%	3,983,588	.8%
Total.....	666	6.3%	25,835,491	5.3%
Buildings				
Less Than LE200K.....	4093	38.4%	94,241,380	19.2%
LE200K or More.....	13	.1%	3,685,505	.8%
Total.....	4106	38.6%	97,926,885	20.0%
Others				
Less Than LE200K.....	251	2.4%	9,852,007	2.0%
LE200K or More.....	7	.1%	2,231,365	.5%
Total.....	258	2.4%	12,083,372	2.5%
Grand Total.....	10651	100.0%	490,509,766	100.0%

Distribution of AID Funds (Total Cash) and Subprojects
by Sector and Size

	Count	Percent	Total Cash (LE)	Percent
Water				
Less Than LE200K.....	3403	98.2%	153,168,187	31.2%
LE200K or More.....	62	1.8%	19,753,799	4.0%
Total.....	3465	100.0%	172,921,986	35.3%
Roads				
Less Than LE200K.....	1641	92.3%	97,411,376	19.9%
LE200K or More.....	136	7.7%	48,176,295	9.8%
Total.....	1777	100.0%	145,587,671	29.7%
Wastewater				
Less Than LE200K.....	335	88.4%	14,228,258	2.9%
LE200K or More.....	44	11.6%	21,926,103	4.5%
Total.....	379	100.0%	36,154,361	7.4%
Environment				
Less Than LE200K.....	650	97.6%	21,851,903	4.5%
LE200K or More.....	16	2.4%	3,983,588	.8%
Total.....	666	100.0%	25,835,491	5.3%
Buildings				
Less Than LE200K.....	4093	99.7%	94,241,380	19.2%
LE200K or More.....	13	.3%	3,685,505	.8%
Total.....	4106	100.0%	97,926,885	20.0%
Others				
Less Than LE200K.....	251	97.3%	9,852,007	2.0%
LE200K or More.....	7	2.7%	2,231,365	.5%
Total.....	258	100.0%	12,083,372	2.5%

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Distribution of AID Funds (Total Cash) and Subprojects
by Governorate

	Count	Percent	Total Cash (LE)	Percent
Asswan.....	499	4.7%	22,885,293	4.7%
Assyout.....	501	4.7%	24,792,251	5.1%
Behera.....	693	6.5%	28,084,419	5.7%
Beni Suef.....	763	7.2%	28,609,092	5.8%
Damietta.....	444	4.2%	22,898,498	4.7%
Daqahliya.....	422	4.0%	25,781,000	5.3%
Fayoum.....	454	4.3%	22,022,700	4.5%
Gharbiya.....	763	7.2%	26,085,015	5.3%
Giza.....	442	4.1%	24,785,225	5.1%
Ismailia.....	167	1.6%	22,509,466	4.6%
Kafr El Sheikh.....	825	7.7%	27,682,463	5.6%
Matrouh.....	268	2.5%	11,885,927	2.4%
Menoufiya.....	658	6.2%	26,066,143	5.3%
Minya.....	574	5.4%	25,492,562	5.2%
New Valley.....	142	1.3%	11,823,388	2.4%
North Sinai.....	358	3.4%	12,204,106	2.5%
Qalubiyah.....	340	3.2%	25,550,770	5.2%
Qena.....	761	7.1%	27,306,492	5.6%
Red Sea.....	117	1.1%	8,473,200	1.7%
Sharqiyah.....	803	7.5%	28,955,608	5.9%
Sohag.....	601	5.6%	28,462,940	5.8%
South Sinai.....	56	.5%	8,153,200	1.7%
Total.....	10651	100.0%	490,507,766	100.0%

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Distribution of AID Funds (Total Cash) and Subprojects
by Planning Year

	Count	Percent	Total Cash (LE)	Percent
Planning Year				
1986.....	1171	11.0%	32,687,030	6.7%
1987.....	1858	17.4%	69,366,540	14.1%
1988.....	4414	41.4%	191,811,550	39.1%
1989.....	3208	30.1%	196,644,646	40.1%
Total.....	10651	100.0%	490,509,766	100.0%

Distribution of AID Funds (Total Cash) and Subprojects
by Planning Year

	Count	Percent	Total Cash (LE)	Percent
Planning Year				
1986-87.....	3029	28.4%	102,053,570	20.8%
1988.....	4414	41.4%	191,811,550	39.1%
1989.....	3208	30.1%	196,644,646	40.1%
Total.....	10651	100.0%	490,509,766	100.0%

Distribution of AID Funds (Total Cash) and Subprojects
by Linkage to Other Subprojects

	Count	Percent	Total Cash (LE)	Percent
Linkage to Other Projects				
Not Linked.....	9050	85.0%	420,057,323	85.6%
Linked.....	1601	15.0%	70,452,443	14.4%
Total.....	10651	100.0%	490,509,766	100.0%

Distribution of AID Funds (Total Cash) and Subprojects
by Operational Status

	Count	Percent	Total Cash (LE)	Percent
Operational Status				
Status Unknown.....	349	3.3%	30,818,817	6.3%
Compl. Fully Operational.....	8885	83.4%	366,773,739	74.8%
Compl. Not Fully Operational..	442	4.1%	16,932,989	3.5%
Uncompl., Multiyear Project...	210	2.0%	25,684,536	5.2%
Uncompleted.....	730	6.9%	48,762,291	9.9%
Unusable.....	8	.1%	626,869	.1%
Cancelled.....	27	.3%	910,525	.2%
Total.....	10651	100.0%	490,509,766	100.0%

Distribution of AID Funds (Total Cash) and Subprojects
by Operational Status

	Count	Percent	Total Cash (LE)	Percent
Operational Status				
Unknown.....	349	3.3%	30,818,817	6.3%
Fully Operational.....	8885	83.4%	366,773,739	74.8%
Not Fully Operational.....	1417	13.3%	92,917,210	18.9%
Total.....	10651	100.0%	490,509,766	100.0%

Distribution of Subproject Operational Status by Governorate

Governorate	Operational Status							Total
	Status Unknown	Compl. Fully Operational	Compl. Not Fully Operational	Uncompl., Multiyear Project	Uncompleted	Unusable	Cancelled	
Asswan.....	76	328	1	29	65	0	0	499
.....	15.2%	65.7%	.2%	5.8%	13.0%	.0%	.0%	100.0%
Assyout.....	18	371	89	3	19	1	0	501
.....	3.6%	74.1%	17.8%	.6%	3.8%	.2%	.0%	100.0%
Behaira.....	6	596	30	53	8	0	0	693
.....	.9%	86.0%	4.3%	7.6%	1.2%	.0%	.0%	100.0%
Beni Suef.....	13	704	2	7	36	0	1	763
.....	1.7%	92.3%	.3%	.9%	4.7%	.0%	.1%	100.0%
Damietta.....	21	376	10	4	33	0	0	444
.....	4.7%	84.7%	2.3%	.9%	7.4%	.0%	.0%	100.0%
Daqahliya.....	10	399	0	4	9	0	0	422
.....	2.4%	94.5%	.0%	.9%	2.1%	.0%	.0%	100.0%
Fayoum.....	19	369	13	17	36	0	0	454
.....	4.2%	81.3%	2.9%	3.7%	7.9%	.0%	.0%	100.0%
Sharbiya.....	0	759	0	4	0	0	0	763
.....	.0%	99.5%	.0%	.5%	.0%	.0%	.0%	100.0%
Siza.....	18	321	33	8	51	1	10	442
.....	4.1%	72.6%	7.5%	1.8%	11.5%	.2%	2.3%	100.0%
Ismailia.....	6	149	10	2	0	0	0	167
.....	3.6%	89.2%	6.0%	1.2%	.0%	.0%	.0%	100.0%
Kafr El Sheikh	19	683	1	0	122	0	0	825
.....	2.3%	82.8%	.1%	.0%	14.8%	.0%	.0%	100.0%
Katrouh.....	24	186	46	1	9	2	0	268
.....	9.0%	69.4%	17.2%	.4%	3.4%	.7%	.0%	100.0%
Matufiya.....	32	501	28	12	70	0	15	658
.....	4.9%	76.1%	4.3%	1.8%	10.6%	.0%	2.3%	100.0%
Matinya.....	9	486	21	11	47	0	0	574
.....	1.6%	84.7%	3.7%	1.9%	3.2%	.0%	.0%	100.0%
New Valley....	2	98	18	18	6	0	0	142
.....	1.4%	69.0%	12.7%	12.7%	4.2%	.0%	.0%	100.0%
North Sinai...	15	339	4	0	0	0	0	358
.....	4.2%	94.7%	1.1%	.0%	.0%	.0%	.0%	100.0%
Qalubiya.....	16	286	1	9	28	0	0	340
.....	4.7%	84.1%	.3%	2.6%	8.2%	.0%	.0%	100.0%
Qena.....	0	756	0	5	0	0	0	761
.....	.0%	99.3%	.0%	.7%	.0%	.0%	.0%	100.0%
Red Sea.....	17	94	0	1	5	0	0	117
.....	14.5%	80.3%	.0%	.9%	4.3%	.0%	.0%	100.0%
Sharqiya.....	14	592	58	16	118	4	1	803
.....	1.7%	73.7%	7.2%	2.0%	14.7%	.5%	.1%	100.0%
Sohag.....	8	463	68	5	57	0	0	601
.....	1.3%	77.0%	11.3%	.8%	9.5%	.0%	.0%	100.0%
South Sinai...	6	29	9	1	11	0	0	56
.....	10.7%	51.8%	16.1%	1.8%	19.6%	.0%	.0%	100.0%

(continued)

Distribution of Subproject Operational Status by Governorate

	Operational Status							Total
	Status Unknown	Compl. Fully Operational	Compl. Not Fully Operational	Uncompl., Multiyear Project	Uncompleted	Unusable	Cancelled	
Total.....	349	8885	442	210	730	8	27	10651

Distribution of Subproject Operational Status by Planning Year

Planning Year	Operational Status							Total
	Status Unknown	Compl. Fully Operational	Compl. Not Fully Operational	Uncompl., Multiyear Project	Uncompleted	Unusable	Cancelled	
1986-87.....	80	2771	125	16	28	0	9	3029
.....	2.6%	91.5%	4.1%	.5%	.9%	.0%	.3%	100.0%
1988.....	115	3885	176	46	175	5	12	4414
.....	2.6%	88.0%	4.0%	1.0%	4.0%	.1%	.3%	100.0%
1989.....	154	2229	141	148	527	3	6	3208
.....	4.8%	69.5%	4.4%	4.6%	16.4%	.1%	.2%	100.0%
Total.....	349	8885	442	210	730	8	27	10651

Distribution of Subproject Operational Status by Sector

	Operational Status							Total
	Status Unknown	Compl. Fully Operational	Compl. Not Fully Operational	Uncompl., Multiyear Project	Uncompleted	Unusable	Cancelled	
Sector								
Water.....	109	2926	96	52	272	4	6	3465
.....	3.1%	64.4%	2.8%	1.5%	7.8%	.1%	.2%	100.0%
Roads.....	59	1465	19	63	165	1	5	1777
.....	3.3%	82.4%	1.1%	3.5%	9.3%	.1%	.3%	100.0%
Wastewater...	20	323	4	15	17	0	0	379
.....	5.3%	85.2%	1.1%	4.0%	4.5%	.0%	.0%	100.0%
Environment...	50	554	11	13	34	2	2	666
.....	7.5%	83.2%	1.7%	2.0%	5.1%	.3%	.3%	100.0%
Buildings.....	96	3386	303	67	241	1	12	4106
.....	2.3%	82.5%	7.4%	1.6%	5.9%	.0%	.3%	100.0%
Others.....	15	231	9	0	1	0	2	258
.....	5.8%	89.5%	3.5%	.0%	.4%	.0%	.8%	100.0%
Total.....	349	8885	442	210	730	8	27	10651

Distribution of Subproject Operational Status by Size

	Operational Status							Total
	Status Unknown	Compl. Fully Operational	Compl. Not Fully Operational	Uncompl., Multiyear Project	Uncompleted	Unusable	Cancelled	
Size of Total Cash								
Less Than LE200K.....	318	8712	436	177	696	7	27	10373
.....	3.1%	84.0%	4.2%	1.7%	6.7%	.1%	.3%	100.0%
LE200K or More	31	173	6	33	34	1	0	278
.....	11.2%	62.2%	2.2%	11.9%	12.2%	.4%	.0%	100.0%
Total.....	349	8885	442	210	730	8	27	10651

Distribution of Subproject Operational Status by Linkage to Other Projects

	Operational Status							Total
	Status Unknown	Compl. Fully Operational	Compl. Not Fully Operational	Uncompl., Multiyear Project	Uncompleted	Unusable	Cancelled	
Linkage to Other Projects								
Not Linked....	349	7548	296	168	654	8	27	9050
.....	3.9%	83.4%	3.3%	1.9%	7.2%	.1%	.3%	100.0%
Linked.....	0	1337	146	42	76	0	0	1601
.....	.0%	83.5%	9.1%	2.6%	4.7%	.0%	.0%	100.0%
Total.....	349	8885	442	210	730	8	27	10651

Distribution of Operational Status by Sector and Planning Year

	Planning Year										Total			
	1986-87				1988				1989					
	Operational Status				Operational Status				Operational Status					
	Fully Operational		Not Fully Operational		Fully Operational		Not Fully Operational		Fully Operational				Not Fully Operational	
Sector														
Water.....	1061	97.9%	23	2.1%	1051	92.0%	92	8.0%	814	72.1%	315	27.9%	3356	100.0%
Roads.....	457	96.2%	18	3.8%	611	94.6%	35	5.4%	397	66.5%	200	33.5%	1718	100.0%
Wastewater....	43	100.0%	0	.0%	184	93.9%	12	6.1%	96	80.0%	24	20.0%	359	100.0%
Environment...	97	96.0%	4	4.0%	247	95.4%	12	4.6%	210	82.0%	46	18.0%	616	100.0%
Buildings.....	1090	89.1%	133	10.9%	1642	86.5%	256	13.5%	654	73.6%	235	26.4%	4010	100.0%
Others.....	23	100.0%	0	.0%	150	95.5%	7	4.5%	58	92.1%	5	7.9%	243	100.0%
Total.....	2771	94.0%	178	6.0%	3885	90.4%	414	9.6%	2229	73.0%	825	27.0%	10302	100.0%

Distribution of Operational Status by Governorate and Planning Year

Governorate	Planning Year										Total			
	1986-87				1988				1989					
	Operational Status				Operational Status				Operational Status					
	Fully Operational		Not Fully Operational		Fully Operational		Not Fully Operational		Fully Operational				Not Fully Operational	
Asswan.....	140	99.3%	1	.7%	146	88.5%	19	11.5%	42	35.9%	75	64.1%	423	100.0%
Assyout.....	103	72.5%	39	27.5%	146	80.2%	36	19.8%	122	76.7%	37	23.3%	483	100.0%
Behaira.....	131	89.7%	15	10.3%	340	92.9%	26	7.1%	125	71.4%	50	28.6%	687	100.0%
Beni Suef.....	223	94.9%	12	5.1%	270	97.5%	7	2.5%	211	88.7%	27	11.3%	750	100.0%
Damietta.....	141	99.3%	1	.7%	145	91.2%	14	8.8%	90	73.8%	32	26.2%	423	100.0%
Daqahliya.....	184	100.0%	0	.0%	109	99.1%	1	.9%	106	89.8%	12	10.2%	412	100.0%
Fayoum.....	111	100.0%	0	.0%	184	92.0%	16	8.0%	74	59.7%	50	40.3%	435	100.0%
Gharbiya.....	236	100.0%	0	.0%	275	100.0%	0	.0%	248	98.4%	4	1.6%	763	100.0%
Giza.....	79	82.3%	17	17.7%	157	80.9%	37	19.1%	85	63.4%	49	36.6%	424	100.0%
Ismailia.....	52	94.5%	3	5.5%	49	90.7%	5	9.3%	48	92.3%	4	7.7%	161	100.0%
Kafr El Sheikh	301	99.3%	2	.7%	243	94.2%	15	5.8%	139	56.7%	106	43.3%	806	100.0%
Matrouh.....	48	81.4%	11	18.6%	72	73.5%	26	26.5%	66	75.9%	21	24.1%	244	100.0%
Menufiya.....	178	97.3%	5	2.7%	236	88.7%	30	11.3%	87	49.2%	90	50.8%	626	100.0%
Minya.....	141	94.0%	9	6.0%	247	96.5%	9	3.5%	98	61.6%	61	38.4%	565	100.0%
New Valley....	32	58.2%	23	41.8%	38	84.4%	7	15.6%	28	70.0%	12	30.0%	140	100.0%
North Sinai...	90	100.0%	0	.0%	141	100.0%	0	.0%	108	96.4%	4	3.6%	343	100.0%
Qalubiya.....	105	100.0%	0	.0%	156	95.7%	7	4.3%	25	44.6%	31	55.4%	324	100.0%
Qena.....	199	100.0%	0	.0%	332	100.0%	0	.0%	225	97.8%	5	2.2%	761	100.0%
Red Sea.....	38	92.7%	3	7.3%	44	95.7%	2	4.3%	12	92.3%	1	7.7%	100	100.0%
Sharqiya.....	153	92.7%	12	7.3%	350	74.9%	117	25.1%	89	56.7%	68	43.3%	789	100.0%
Sohag.....	86	77.5%	25	22.5%	194	86.2%	31	13.8%	183	71.2%	74	28.8%	593	100.0%
South Sinai...	0	.0%	0	.0%	11	55.0%	9	45.0%	18	60.0%	12	40.0%	50	100.0%
Total.....	2771	94.0%	178	6.0%	3885	90.4%	414	9.6%	2229	73.0%	825	27.0%	10302	100.0%

Distribution of Operational Status by Governorate, Planning Year and Sector

 Sector
 Water

	Planning Year						Total
	1986-87		1988		1989		
	Operational Status		Operational Status		Operational Status		
	Fully Operational	Not Fully Operational	Fully Operational	Not Fully Operational	Fully Operational	Not Fully Operational	
Governorate							
Asswan.....	69 100.0%	0 .0%	42 80.8%	10 19.2%	5 37.5%	25 62.5%	161 100.0%
Assyout.....	54 87.1%	8 12.9%	45 83.3%	9 16.7%	61 80.3%	15 19.7%	192 100.0%
Beheira.....	22 100.0%	0 .0%	18 94.7%	1 5.3%	33 84.6%	6 15.4%	80 100.0%
Beni Suaf.....	65 100.0%	0 .0%	41 95.3%	2 4.7%	29 85.3%	5 14.7%	142 100.0%
Damietta.....	49 100.0%	0 .0%	12 92.3%	1 7.7%	15 100.0%	0 .0%	77 100.0%
Daqahliya.....	81 100.0%	0 .0%	77 100.0%	0 .0%	72 92.3%	6 7.7%	236 100.0%
Fayoum.....	13 100.0%	0 .0%	56 78.9%	15 21.1%	5 11.1%	40 88.9%	129 100.0%
Gharbiya.....	139 100.0%	0 .0%	80 100.0%	0 .0%	116 99.1%	1 .9%	336 100.0%
Giza.....	32 94.1%	2 5.9%	47 90.4%	5 9.6%	31 68.9%	14 31.1%	131 100.0%
Ismailia.....	13 100.0%	0 .0%	2 100.0%	0 .0%	13 81.3%	3 18.8%	31 100.0%
Kafr El Sheikh	85 98.8%	1 1.2%	34 94.4%	2 5.6%	23 62.2%	14 37.8%	159 100.0%
Matrouh.....	14 82.4%	3 17.6%	16 88.9%	2 11.1%	9 90.0%	1 10.0%	45 100.0%
Menoufiya.....	62 96.9%	2 3.1%	57 82.6%	12 17.4%	15 21.1%	56 78.9%	204 100.0%
Minya.....	48 96.0%	2 4.0%	64 95.5%	3 4.5%	50 71.4%	20 28.6%	187 100.0%
New Valley....	9 81.8%	2 18.2%	10 100.0%	0 .0%	8 72.7%	3 27.3%	32 100.0%
North Sinai...	23 100.0%	0 .0%	40 100.0%	0 .0%	48 96.0%	2 4.0%	113 100.0%
Qalubiyah.....	34 100.0%	0 .0%	49 90.7%	5 9.3%	15 37.5%	25 62.5%	128 100.0%
Qena.....	151 100.0%	0 .0%	176 100.0%	0 .0%	134 100.0%	0 .0%	461 100.0%
Red Sea.....	14 100.0%	0 .0%	23 100.0%	0 .0%	5 100.0%	0 .0%	42 100.0%
Sharqiyah.....	62 95.4%	3 4.6%	100 80.0%	25 20.0%	44 59.5%	30 40.5%	264 100.0%
Sohag.....	22 100.0%	0 .0%	62 100.0%	0 .0%	70 61.4%	44 38.6%	198 100.0%
South Sinai...	0 .0%	0 .0%	0 .0%	0 .0%	3 37.5%	5 62.5%	8 100.0%
Total.....	1061 97.9%	23 2.1%	1051 92.0%	92 8.0%	814 72.1%	315 27.9%	3356 100.0%

Distribution of Operational Status by Governorate, Planning Year and Sector

Sector
Roads

	Planning Year						Total
	1986-87		1988		1989		
	Operational Status		Operational Status		Operational Status		
	Fully Operational	Not Fully Operational	Fully Operational	Not Fully Operational	Fully Operational	Not Fully Operational	
Governorate							
Asswan.....	15 100.0%	0 .0%	9 90.0%	1 10.0%	3 14.3%	18 85.7%	46 100.0%
Assyout.....	14 93.3%	1 6.7%	14 93.3%	1 6.7%	9 56.3%	7 43.8%	46 100.0%
Behaira.....	43 97.7%	1 2.3%	158 95.2%	8 4.8%	56 58.9%	39 41.1%	305 100.0%
Beni Suef.....	53 81.5%	12 18.5%	37 100.0%	0 .0%	25 89.3%	3 10.7%	130 100.0%
Damietta.....	55 100.0%	0 .0%	21 95.5%	1 4.5%	12 36.4%	21 63.6%	110 100.0%
Daqahliya.....	0 .0%	0 .0%	14 100.0%	0 .0%	18 85.7%	3 14.3%	35 100.0%
Fayoum.....	20 100.0%	0 .0%	37 97.4%	1 2.6%	18 94.7%	1 5.3%	77 100.0%
Gharbiya.....	7 100.0%	0 .0%	26 100.0%	0 .0%	30 93.8%	2 6.3%	65 100.0%
Giza.....	8 100.0%	0 .0%	31 86.1%	5 13.9%	23 85.2%	4 14.8%	71 100.0%
Ismailia.....	32 97.0%	1 3.0%	37 92.5%	3 7.5%	28 96.6%	1 3.4%	102 100.0%
Kafr El Sheikh	114 99.1%	1 .9%	63 92.6%	5 7.4%	19 33.9%	37 66.1%	239 100.0%
Matrouh.....	9 100.0%	0 .0%	6 85.7%	1 14.3%	19 95.0%	1 5.0%	33 100.0%
Manufiya.....	5 100.0%	0 .0%	8 66.7%	4 33.3%	10 52.6%	9 47.4%	36 100.0%
Minya.....	19 95.0%	1 5.0%	53 94.6%	3 5.4%	12 27.9%	31 72.1%	119 100.0%
New Valley....	2 100.0%	0 .0%	1 100.0%	0 .0%	3 100.0%	0 .0%	6 100.0%
North Sinai...	33 100.0%	0 .0%	31 100.0%	0 .0%	31 100.0%	0 .0%	95 100.0%
Qalubiya.....	8 100.0%	0 .0%	9 100.0%	0 .0%	5 71.4%	2 28.6%	24 100.0%
Qana.....	0 .0%	0 .0%	18 100.0%	0 .0%	38 88.4%	5 11.6%	61 100.0%
Red Sea.....	4 100.0%	0 .0%	0 .0%	0 .0%	3 100.0%	0 .0%	7 100.0%
Sharqiya.....	15 93.8%	1 6.3%	10 90.9%	1 9.1%	5 33.3%	10 66.7%	42 100.0%
Sohag.....	1 100.0%	0 .0%	28 100.0%	0 .0%	29 85.3%	5 14.7%	63 100.0%
South Sinai...	0 .0%	0 .0%	0 .0%	1 100.0%	1 50.0%	1 50.0%	3 100.0%
Total.....	457 96.2%	18 3.8%	611 94.6%	35 5.4%	397 66.5%	200 33.5%	1718 100.0%

Distribution of Operational Status by Governorate, Planning Year and Sector

Sector
Wastewater

	Planning Year						Total
	1986-87		1988		1989		
	Operational Status		Operational Status		Operational Status		
	Fully Operational	Not Fully Operational	Fully Operational	Not Fully Operational	Fully Operational	Not Fully Operational	
Governorate							
Asswan.....	0 .0%	0 .0%	10 90.9%	1 9.1%	0 .0%	1 100.0%	12 100.0%
Assyout.....	0 .0%	0 .0%	0 .0%	0 .0%	0 .0%	1 100.0%	1 100.0%
Beheira.....	1 100.0%	0 .0%	3 100.0%	0 .0%	3 60.0%	2 40.0%	9 100.0%
Beni Suef.....	0 .0%	0 .0%	9 100.0%	0 .0%	2 100.0%	0 .0%	11 100.0%
Damietta.....	1 100.0%	0 .0%	7 70.0%	3 30.0%	9 69.2%	4 30.8%	24 100.0%
Daqahliya.....	21 100.0%	0 .0%	0 .0%	1 100.0%	0 .0%	1 100.0%	23 100.0%
Fayoum.....	15 100.0%	0 .0%	7 100.0%	0 .0%	4 66.7%	2 33.3%	28 100.0%
Gharbiya.....	0 .0%	0 .0%	22 100.0%	0 .0%	6 100.0%	0 .0%	28 100.0%
Giza.....	0 .0%	0 .0%	7 87.5%	1 12.5%	2 50.0%	2 50.0%	12 100.0%
Ismailia.....	0 .0%	0 .0%	0 .0%	0 .0%	0 .0%	0 .0%	0 .0%
Kafr El Sheikh	0 .0%	0 .0%	1 100.0%	0 .0%	0 .0%	0 .0%	1 100.0%
Matrouh.....	0 .0%	0 .0%	3 100.0%	0 .0%	1 100.0%	0 .0%	4 100.0%
Manufiya.....	0 .0%	0 .0%	4 100.0%	0 .0%	2 66.7%	1 33.3%	7 100.0%
Minya.....	0 .0%	0 .0%	50 100.0%	0 .0%	9 81.8%	2 18.2%	61 100.0%
New Valley....	4 100.0%	0 .0%	0 .0%	2 100.0%	2 40.0%	3 60.0%	11 100.0%
North Sinai...	0 .0%	0 .0%	6 100.0%	0 .0%	0 .0%	0 .0%	6 100.0%
Qalubiyah.....	0 .0%	0 .0%	13 86.7%	2 13.3%	2 40.0%	3 60.0%	20 100.0%
Qena.....	0 .0%	0 .0%	21 100.0%	0 .0%	40 100.0%	0 .0%	61 100.0%
Red Sea.....	0 .0%	0 .0%	10 90.9%	1 9.1%	1 100.0%	0 .0%	12 100.0%
Sharqiyah.....	1 100.0%	0 .0%	7 100.0%	0 .0%	5 100.0%	0 .0%	13 100.0%
Sohag.....	0 .0%	0 .0%	4 80.0%	1 20.0%	7 87.5%	1 12.5%	13 100.0%
South Sinai...	0 .0%	0 .0%	0 .0%	0 .0%	1 50.0%	1 50.0%	2 100.0%
Total.....	43 100.0%	0 .0%	184 93.9%	12 6.1%	95 80.0%	24 20.0%	359 100.0%

Distribution of Operational Status by Governorate, Planning Year and Sector

 Sector
 Others

	Planning Year						Total
	1986-87		1988		1989		
	Operational Status		Operational Status		Operational Status		
	Fully Operational	Not Fully Operational	Fully Operational	Not Fully Operational	Fully Operational	Not Fully Operational	
Governorate							
Asswan.....	0 .0%	0 .0%	0 .0%	0 .0%	13 100.0%	0 .0%	13 100.0%
Assyout.....	0 .0%	0 .0%	0 .0%	0 .0%	0 .0%	0 .0%	0 .0%
Beheira.....	0 .0%	0 .0%	16 100.0%	0 .0%	0 .0%	0 .0%	16 100.0%
Beni Suef.....	0 .0%	0 .0%	0 .0%	0 .0%	0 .0%	0 .0%	0 .0%
Damietta.....	2 100.0%	0 .0%	47 95.9%	2 4.1%	23 100.0%	0 .0%	74 100.0%
Daqahliya.....	0 .0%	0 .0%	0 .0%	0 .0%	0 .0%	0 .0%	0 .0%
Fayoum.....	0 .0%	0 .0%	0 .0%	0 .0%	0 .0%	0 .0%	0 .0%
Gharbiya.....	0 .0%	0 .0%	0 .0%	0 .0%	0 .0%	0 .0%	0 .0%
Giza.....	0 .0%	0 .0%	0 .0%	0 .0%	0 .0%	0 .0%	0 .0%
Ismailia.....	0 .0%	0 .0%	0 .0%	0 .0%	0 .0%	0 .0%	0 .0%
Kafr El Sheikh	0 .0%	0 .0%	0 .0%	0 .0%	0 .0%	0 .0%	0 .0%
Matrouh.....	1 100.0%	0 .0%	1 100.0%	0 .0%	5 62.5%	3 37.5%	10 100.0%
Menufiya.....	12 100.0%	0 .0%	47 94.0%	3 6.0%	11 91.7%	1 8.3%	74 100.0%
Minya.....	0 .0%	0 .0%	1 100.0%	0 .0%	0 .0%	0 .0%	1 100.0%
New Valley....	0 .0%	0 .0%	0 .0%	0 .0%	0 .0%	0 .0%	0 .0%
North Sinai...	0 .0%	0 .0%	19 100.0%	0 .0%	0 .0%	0 .0%	19 100.0%
Qalubiya.....	8 100.0%	0 .0%	10 100.0%	0 .0%	1 50.0%	1 50.0%	20 100.0%
Qena.....	0 .0%	0 .0%	7 100.0%	0 .0%	4 100.0%	0 .0%	11 100.0%
Red Sea.....	0 .0%	0 .0%	0 .0%	0 .0%	1 100.0%	0 .0%	1 100.0%
Sharqiya.....	0 .0%	0 .0%	1 33.3%	2 66.7%	0 .0%	0 .0%	3 100.0%
Sohag.....	0 .0%	0 .0%	0 .0%	0 .0%	0 .0%	0 .0%	0 .0%
South Sinai...	0 .0%	0 .0%	1 100.0%	0 .0%	0 .0%	0 .0%	1 100.0%
Total.....	23 100.0%	0 .0%	150 95.5%	7 4.5%	58 92.1%	5 7.9%	243 100.0%

Distribution of AID Funds (Total Cash) and Subprojects
by Operational Status and Size

	Count	Percent	Total Cash (LE)	Percent
Less Than LE200K				
Operational Status				
Unknown.....	318	3.0%	15,594,650	3.2%
Fully Operational.....	8712	81.8%	312,305,733	63.7%
Not Fully Operational.....	1343	12.6%	62,852,728	12.8%
Total.....	10373	97.4%	390,753,111	79.7%
LE200K or More				
Operational Status				
Unknown.....	31	.3%	15,224,167	3.1%
Fully Operational.....	173	1.6%	54,468,006	11.1%
Not Fully Operational.....	74	.7%	30,064,482	6.1%
Total.....	278	2.6%	99,756,655	20.3%
Grand Total.....	10651	100.0%	490,509,766	100.0%

Distribution of AID Funds (Total Cash) and Subprojects
by Operational Status and Sector

	Count	Percent	Total Cash (LE)	Percent
Water				
Operational Status				
Unknown.....	109	1.0%	6,826,730	1.4%
Fully Operational.....	2926	27.5%	133,865,816	27.3%
Not Fully Operational.....	430	4.0%	32,229,440	6.6%
Total.....	3465	32.5%	172,921,986	35.3%
Roads				
Operational Status				
Unknown.....	59	.6%	10,795,388	2.2%
Fully Operational.....	1465	13.8%	109,490,372	22.3%
Not Fully Operational.....	253	2.4%	25,301,911	5.2%
Total.....	1777	16.7%	145,587,671	29.7%
Wastewater				
Operational Status				
Unknown.....	20	.2%	5,332,457	1.1%
Fully Operational.....	323	3.0%	18,813,754	3.8%
Not Fully Operational.....	36	.3%	12,008,150	2.4%
Total.....	379	3.6%	36,154,361	7.4%
Environment				
Operational Status				
Unknown.....	50	.5%	2,663,015	.5%
Fully Operational.....	554	5.2%	19,335,937	3.9%
Not Fully Operational.....	62	.6%	3,836,539	.8%
Total.....	666	6.3%	25,835,491	5.3%
Buildings				
Operational Status				
Unknown.....	96	.9%	3,636,811	.7%
Fully Operational.....	3386	31.8%	75,230,076	15.3%
Not Fully Operational.....	624	5.9%	19,059,998	3.9%
Total.....	4106	38.6%	97,926,885	20.0%
Others				

(continued)

Distribution of AID Funds (Total Cash) and Subprojects
by Operational Status and Sector

	Count	Percent	Total Cash (LE)	Percent
Operational Status				
Unknown.....	15	.1%	1,564,416	.3%
Fully Operational.....	231	2.2%	10,037,784	2.0%
Not Fully Operational.....	12	.1%	481,172	.1%
Total.....	258	2.4%	12,083,372	2.5%
Grand Total.....	10651	100.0%	490,509,766	100.0%

Distribution of AID Funds (Total Cash) and Subprojects
by Operational Status, Sector and Size

	Count	Percent	Total Cash (LE)	Percent
Water				
Less Than LE200K				
Operational Status				
Unknown.....	106	1.0%	5,676,730	1.2%
Fully Operational.....	2894	27.2%	123,678,449	25.2%
Not Fully Operational.....	403	3.8%	23,813,008	4.9%
Total.....	3403	32.0%	153,168,187	31.2%
LE200K or More				
Operational Status				
Unknown.....	3	.0%	1,150,000	.2%
Fully Operational.....	32	.3%	10,187,367	2.1%
Not Fully Operational.....	27	.3%	8,416,432	1.7%
Total.....	62	.6%	19,753,799	4.0%
Roads				
Less Than LE200K				
Operational Status				
Unknown.....	45	.4%	3,192,228	.7%
Fully Operational.....	1364	12.8%	77,735,586	15.8%
Not Fully Operational.....	232	2.2%	16,483,562	3.4%
Total.....	1641	15.4%	97,411,376	19.9%
LE200K or More				
Operational Status				
Unknown.....	14	.1%	7,603,160	1.6%
Fully Operational.....	101	.9%	31,754,786	6.5%
Not Fully Operational.....	21	.2%	8,818,349	1.8%
Total.....	136	1.3%	48,176,295	9.8%
Wastewater				
Less Than LE200K				
Operational Status				
Unknown.....	14	.1%	973,671	.2%
Fully Operational.....	304	2.9%	12,438,836	2.5%

(continued)

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Distribution of AID Funds (Total Cash) and Subprojects
by Operational Status, Sector and Size

	Count	Percent	Total Cash (LE)	Percent
Not Fully Operational.....	17	.2%	815,751	.2%
Total.....	335	3.1%	14,228,258	2.9%
LE200K or More				
Operational Status				
Unknown.....	6	.1%	4,358,766	.9%
Fully Operational.....	19	.2%	6,374,918	1.3%
Not Fully Operational.....	19	.2%	11,192,399	2.3%
Total.....	44	.4%	21,926,103	4.5%
Environment				
Less Than LE200K				
Operational Status				
Unknown.....	47	.4%	2,063,015	.4%
Fully Operational.....	545	5.1%	16,833,849	3.4%
Not Fully Operational.....	58	.5%	2,955,039	.6%
Total.....	650	6.1%	21,851,903	4.5%
LE200K or More				
Operational Status				
Unknown.....	3	.0%	600,000	.1%
Fully Operational.....	9	.1%	2,502,088	.5%
Not Fully Operational.....	4	.0%	881,500	.2%
Total.....	16	.2%	3,983,588	.8%
Buildings				
Less Than LE200K				
Operational Status				
Unknown.....	93	.9%	2,793,910	.6%
Fully Operational.....	3379	31.7%	73,143,274	14.9%
Not Fully Operational.....	621	5.8%	18,304,196	3.7%
Total.....	4093	38.4%	94,241,380	19.2%
LE200K or More				
Operational Status				

(continued)

Distribution of AID Funds (Total Cash) and Subprojects
by Operational Status, Sector and Size

	Count	Percent	Total Cash (LE)	Percent
Unknown.....	3	.0%	842,901	.2%
Fully Operational.....	7	.1%	2,086,802	.4%
Not Fully Operational.....	3	.0%	755,802	.2%
Total.....	13	.1%	3,685,505	.8%
Others				
Less Than LE200K				
Operational Status				
Unknown.....	13	.1%	895,096	.2%
Fully Operational.....	226	2.1%	8,475,739	1.7%
Not Fully Operational.....	12	.1%	481,172	.1%
Total.....	251	2.4%	9,852,007	2.0%
LE200K or More				
Operational Status				
Unknown.....	2	.0%	669,320	.1%
Fully Operational.....	5	.0%	1,562,045	.3%
Total.....	7	.1%	2,231,365	.5%
Grand Total.....	10651	100.0%	490,509,766	100.0%

Distribution of AID Funds (Total Cash) and Subprojects
by Operational Status and Governorate

	Count	Percent	Total Cash (LE)	Percent
Asswan				
Operational Status				
Unknown.....	76	.7%	4,225,352	.9%
Fully Operational.....	328	3.1%	11,645,118	2.4%
Not Fully Operational.....	95	.9%	7,014,823	1.4%
Total.....	499	4.7%	22,885,293	4.7%
Assyout				
Operational Status				
Unknown.....	18	.2%	2,588,500	.5%
Fully Operational.....	371	3.5%	17,352,137	3.5%
Not Fully Operational.....	112	1.1%	4,851,614	1.0%
Total.....	501	4.7%	24,792,251	5.1%
Beheira				
Operational Status				
Unknown.....	6	.1%	367,957	.1%
Fully Operational.....	596	5.6%	22,066,059	4.5%
Not Fully Operational.....	91	.9%	5,650,403	1.2%
Total.....	693	6.5%	28,084,419	5.7%
Beni Suef				
Operational Status				
Unknown.....	13	.1%	297,256	.1%
Fully Operational.....	704	6.6%	25,829,087	5.3%
Not Fully Operational.....	46	.4%	2,482,749	.5%
Total.....	763	7.2%	28,609,092	5.8%
Damietta				
Operational Status				
Unknown.....	21	.2%	1,328,001	.3%
Fully Operational.....	376	3.5%	18,258,723	3.7%
Not Fully Operational.....	47	.4%	3,311,774	.7%
Total.....	444	4.2%	22,898,498	4.7%
Daqahliya				

(continued)

Distribution of AID Funds (Total Cash) and Subprojects
by Operational Status and Governorate

	Count	Percent	Total Cash (LE)	Percent
Operational Status				
Unknown.....	10	.1%	1,354,410	.3%
Fully Operational.....	399	3.7%	23,089,270	4.7%
Not Fully Operational.....	13	.1%	1,337,320	.3%
Total.....	422	4.0%	25,781,000	5.3%
Fayoum				
Operational Status				
Unknown.....	19	.2%	2,625,806	.5%
Fully Operational.....	369	3.5%	13,370,917	2.7%
Not Fully Operational.....	66	.6%	6,025,977	1.2%
Total.....	454	4.3%	22,022,700	4.5%
Gharbiya				
Operational Status				
Fully Operational.....	759	7.1%	25,454,815	5.2%
Not Fully Operational.....	4	.0%	630,200	.1%
Total.....	763	7.2%	26,085,015	5.3%
Giza				
Operational Status				
Unknown.....	18	.2%	1,180,901	.2%
Fully Operational.....	321	3.0%	17,780,078	3.6%
Not Fully Operational.....	103	1.0%	5,824,246	1.2%
Total.....	442	4.1%	24,785,225	5.1%
Ismailia				
Operational Status				
Unknown.....	6	.1%	428,646	.1%
Fully Operational.....	149	1.4%	19,539,673	4.0%
Not Fully Operational.....	12	.1%	2,541,147	.5%
Total.....	167	1.6%	22,509,466	4.6%
Kafr El Sheikh				
Operational Status				
Unknown.....	19	.2%	611,919	.1%
Fully Operational.....	683	6.4%	19,704,992	4.0%

(continued)

Distribution of AID Funds (Total Cash) and Subprojects
by Operational Status and Governorate

	Count	Percent	Total Cash (LE)	Percent
Not Fully Operational.....	123	1.2%	7,365,552	1.5%
Total.....	825	7.7%	27,682,463	5.6%
Matrouh				
Operational Status				
Unknown.....	24	.2%	843,464	.2%
Fully Operational.....	186	1.7%	9,226,917	1.9%
Not Fully Operational.....	58	.5%	1,815,546	.4%
Total.....	268	2.5%	11,885,927	2.4%
Manufiya				
Operational Status				
Unknown.....	32	.3%	2,197,051	.4%
Fully Operational.....	501	4.7%	16,391,402	3.3%
Not Fully Operational.....	125	1.2%	7,477,690	1.5%
Total.....	658	6.2%	26,066,143	5.3%
Minya				
Operational Status				
Unknown.....	9	.1%	2,352,499	.5%
Fully Operational.....	486	4.6%	18,385,816	3.7%
Not Fully Operational.....	79	.7%	4,754,247	1.0%
Total.....	574	5.4%	25,492,562	5.2%
New Valley				
Operational Status				
Unknown.....	2	.0%	385,000	.1%
Fully Operational.....	98	.9%	5,967,714	1.2%
Not Fully Operational.....	42	.4%	5,470,674	1.1%
Total.....	142	1.3%	11,823,388	2.4%
North Sinai				
Operational Status				
Unknown.....	15	.1%	759,000	.2%
Fully Operational.....	339	3.2%	11,185,606	2.3%
Not Fully Operational.....	4	.0%	259,500	.1%

(continued)

Distribution of AID Funds (Total Cash) and Subprojects
by Operational Status and Governorate

	Count	Percent	Total Cash (LE)	Percent
Total.....	358	3.4%	12,204,106	2.5%
Qalubiya				
Operational Status				
Unknown.....	16	.2%	1,845,190	.4%
Fully Operational.....	286	2.7%	15,071,256	3.1%
Not Fully Operational.....	38	.4%	8,634,324	1.8%
Total.....	340	3.2%	25,550,770	5.2%
Qena				
Operational Status				
Fully Operational.....	756	7.1%	26,858,792	5.5%
Not Fully Operational.....	5	.0%	447,700	.1%
Total.....	761	7.1%	27,306,492	5.6%
Red Sea				
Operational Status				
Unknown.....	17	.2%	1,243,634	.3%
Fully Operational.....	94	.9%	6,706,181	1.4%
Not Fully Operational.....	6	.1%	523,385	.1%
Total.....	117	1.1%	8,473,200	1.7%
Sharqiya				
Operational Status				
Unknown.....	14	.1%	2,602,358	.5%
Fully Operational.....	592	5.6%	17,132,808	3.5%
Not Fully Operational.....	197	1.8%	9,220,442	1.9%
Total.....	803	7.5%	28,955,608	5.9%
Sohag				
Operational Status				
Unknown.....	8	.1%	242,050	.0%
Fully Operational.....	463	4.3%	23,265,429	4.7%
Not Fully Operational.....	130	1.2%	4,955,469	1.0%
Total.....	601	5.6%	28,462,948	5.8%
South Sinai				

(continued)

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Distribution of AID Funds (Total Cash) and Subprojects
by Operational Status and Governorate

	Count	Percent	Total Cash (LE)	Percent
Operational Status				
Unknown.....	6	.1%	3,339,823	.7%
Fully Operational.....	29	.3%	2,490,949	.5%
Not Fully Operational.....	21	.2%	2,322,428	.5%
Total.....	56	.5%	8,153,200	1.7%
Grand Total.....	10651	100.0%	490,509,766	100.0%

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Distribution of Subprojects by Operational Status and Second Reason
 (for Subprojects for Which Second Reason Was Indicated)

	Frequency	
	Count	Percent
Operational Status		
Fully Operational		
Second Reason		
Lack of oper. funds.....	2	.8%
Other financial.....	2	.8%
Unqualified contractor.....	2	.8%
No tech. assistance.....	1	.4%
No tech. know how.....	6	2.4%
Lack of permits.....	1	.4%
Total.....	14	5.7%
Not Fully Operational		
Second Reason		
Delayed non LD funds.....	6	2.4%
No vil. accounting unit.....	2	.8%
Project over budget.....	8	3.3%
Lack of oper. funds.....	14	5.7%
Other financial.....	8	3.3%
Unqualified contractor.....	33	13.4%
Contractor replaced.....	16	6.5%
No bids.....	12	4.9%
Contractor problems.....	7	2.8%
Other contractor.....	3	1.2%
Improper design.....	3	1.2%
Design change.....	16	6.5%
No tech. assistance.....	14	5.7%
No tech. know how.....	41	16.7%
Other technical.....	4	1.6%
Parts unavailable.....	5	2.0%
Other logistical.....	3	1.2%
Lack of permits.....	9	3.7%
Lack of cooperation.....	9	3.7%
Plan change.....	4	1.6%
Other administrative.....	15	6.1%
Total.....	232	94.3%
Grand Total.....	246	100.0%

Distribution of Subprojects by Operational Status and Third Reason
 (for Subprojects for Which Third Reason Was Indicated)

	Frequency	
	Count	Percent
Operational Status		
Fully Operational		
Third Reason		
Project over budget.....	2	1.6%
Contractor problems.....	1	.8%
Improper design.....	1	.8%
No tech. know how.....	2	1.6%
Total.....	6	4.8%
Not Fully Operational		
Third Reason		
Delayed non LD funds.....	8	6.3%
No vil. accounting unit.....	13	10.3%
Project over budget.....	7	5.6%
Lack of oper. funds.....	2	1.6%
Other financial.....	3	2.4%
No bids.....	3	2.4%
Contractor problems.....	3	2.4%
Other contractor.....	7	5.6%
Improper design.....	4	3.2%
Design change.....	5	4.0%
No tech. assistance.....	6	4.8%
No tech. know how.....	16	12.7%
Other technical.....	6	4.8%
Parts unavailable.....	10	7.9%
Other logistical.....	4	3.2%
Conflict with other projects	1	.8%
Lack of permits.....	8	6.3%
Lack of cooperation.....	2	1.6%
Plan change.....	9	7.1%
Other administrative.....	3	2.4%
Total.....	120	95.2%
Grand Total.....	126	100.0%

Distribution of Subprojects by Second Reason
(for Subprojects for Which Second Reason Was Indicated)

	Frequency	
	Count	Percent
Reason Class		
Financial		
Second Reason		
Delayed non LD funds.....	6	2.6%
Project over budget.....	4	1.7%
Lack of oper. funds.....	14	6.1%
Other financial.....	8	3.5%
Unqualified contractor.....	3	1.3%
Contractor replaced.....	9	3.9%
No bids.....	1	.4%
Contractor problems.....	6	2.6%
Improper design.....	2	.9%
Design change.....	12	5.2%
No tech. assistance.....	2	.9%
No tech. know how.....	27	11.7%
Other technical.....	2	.9%
Parts unavailable.....	1	.4%
Lack of permits.....	1	.4%
Total.....	98	42.4%
Contractor		
Second Reason		
Project over budget.....	1	.4%
Unqualified contractor.....	26	11.3%
Contractor replaced.....	7	3.0%
No bids.....	9	3.9%
Other contractor.....	2	.9%
Design change.....	2	.9%
No tech. assistance.....	3	1.3%
Lack of permits.....	1	.4%
Plan change.....	1	.4%
Total.....	52	22.5%
Technical		
Second Reason		
No vil. accounting unit.....	2	.9%
Project over budget.....	3	1.3%
Other financial.....	1	.4%
No bids.....	2	.9%
Design change.....	1	.4%
No tech. assistance.....	10	4.3%

(continued)

Distribution of Subprojects by Second Reason
(for Subprojects for Which Second Reason Was Indicated)

	Frequency	
	Count	Percent
No tech. know how.....	4	1.7%
Other technical.....	1	.4%
Parts unavailable.....	3	1.3%
Other logistical.....	2	.9%
Lack of cooperation.....	8	3.5%
Plan change.....	3	1.3%
Other administrative.....	14	6.1%
Total.....	54	23.4%
Logistical		
Second Reason		
Improper design.....	1	.4%
Design change.....	1	.4%
No tech. know how.....	6	2.6%
Other technical.....	1	.4%
Other logistical.....	1	.4%
Lack of permits.....	7	3.0%
Total.....	17	7.4%
Administrative		
Second Reason		
Lack of oper. funds.....	1	.4%
Other financial.....	1	.4%
Unqualified contractor.....	1	.4%
Other contractor.....	1	.4%
No tech. know how.....	2	.9%
Parts unavailable.....	1	.4%
Lack of permits.....	1	.4%
Lack of cooperation.....	1	.4%
Other administrative.....	1	.4%
Total.....	10	4.3%
Grand Total.....	246	100.0%

Distribution of Subprojects by Third Reason
(for Subprojects for Which Third Reason Was Indicated)

	Frequency	
	Count	Percent
Reason Class		
Financial		
Third Reason		
Delayed non LD funds.....	8	7.0%
No vil. accounting unit.....	11	9.6%
Project over budget.....	2	1.7%
Lack of oper. funds.....	1	.9%
Other financial.....	1	.9%
Contractor problems.....	2	1.7%
Improper design.....	5	4.3%
Design change.....	1	.5%
No tech. assistance.....	2	1.7%
No tech. know how.....	1	.9%
Parts unavailable.....	8	7.0%
Other logistical.....	1	.9%
Plan change.....	7	6.1%
Other administrative.....	3	2.6%
Total.....	53	46.1%
Contractor		
Third Reason		
Project over budget.....	1	.9%
No bids.....	2	1.7%
Contractor problems.....	2	1.7%
Other contractor.....	7	6.1%
Design change.....	1	.9%
Conflict with other projects	1	.9%
Plan change.....	1	.9%
Total.....	15	13.0%
Technical		
Third Reason		
No vil. accounting unit.....	2	1.7%
Project over budget.....	3	2.6%
Lack of oper. funds.....	1	.9%
Other financial.....	2	1.7%
No bids.....	1	.9%
No tech. assistance.....	4	3.5%
No tech. know how.....	8	7.0%
Other technical.....	2	1.7%
Lack of permits.....	8	7.0%

(continued)

(13)

Distribution of Subprojects by Third Reason
(for Subprojects for Which Third Reason Was Indicated)

	Frequency	
	Count	Percent
Plan change.....	1	.9%
Total.....	32	27.8%
Logistical		
Third Reason		
Project over budget.....	1	.9%
Design change.....	1	.9%
No tech. know how.....	6	5.2%
Lack of cooperation.....	1	.9%
Total.....	9	7.8%
Administrative		
Third Reason		
Design change.....	1	.9%
No tech. know how.....	2	1.7%
Parts unavailable.....	2	1.7%
Lack of cooperation.....	1	.9%
Total.....	6	5.2%
Grand Total.....	126	100.0%

Distribution of Subprojects by Operational Status and Reason Class
 (for Subprojects for Which First Reason Was Indicated)

	Frequency	
	Count	Percent
Operational Status		
Fully Operational		
Reason Class		
Financial.....	28	2.9%
Contractor.....	1	.1%
Technical.....	63	6.6%
Logistical.....	2	.2%
Administrative.....	1	.1%
Total.....	95	9.9%
Not Fully Operational		
Reason Class		
Financial.....	381	39.9%
Contractor.....	225	23.5%
Technical.....	146	15.3%
Logistical.....	22	2.3%
Administrative.....	87	9.1%
Total.....	861	90.1%
Grand Total.....	956	100.0%

Distribution of Subprojects by Reason Class
 (for Subprojects for Which First Reason Was Indicated)

	Frequency	
	Count	Percent
Reason Class		
Financial.....	409	42.8%
Contractor.....	226	23.6%
Technical.....	209	21.9%
Logistical.....	24	2.5%
Administrative.....	88	9.2%
Total.....	956	100.0%

Distribution of Reason Class by Governorate

	Reason Class					Total
	Financial	Contractor	Technical	Logistical	Administrative	
Governorate						
Asswan.....	27	31	0	0	0	58
.....	46.6%	53.4%	.0%	.0%	.0%	100.0%
Assyout.....	60	1	19	10	11	101
.....	59.4%	1.0%	18.8%	9.9%	10.9%	100.0%
Behaira.....	25	28	16	0	0	69
.....	36.2%	40.6%	23.2%	.0%	.0%	100.0%
Beni Suef.....	33	4	0	0	3	40
.....	82.5%	10.0%	.0%	.0%	7.5%	100.0%
Damietta.....	4	0	0	0	0	4
.....	100.0%	.0%	.0%	.0%	.0%	100.0%
Daqahliya.....	0	3	0	0	6	9
.....	.0%	33.3%	.0%	.0%	66.7%	100.0%
Fayoum.....	7	30	0	0	16	53
.....	13.2%	56.6%	.0%	.0%	30.2%	100.0%
Giza.....	17	4	16	2	23	62
.....	27.4%	6.5%	25.8%	3.2%	37.1%	100.0%
Ismailia.....	5	0	4	0	0	9
.....	55.6%	.0%	44.4%	.0%	.0%	100.0%
Kafr El Sheikh.....	11	5	0	0	0	16
.....	68.8%	31.3%	.0%	.0%	.0%	100.0%
Matrouh.....	5	5	33	0	2	45
.....	11.1%	11.1%	73.3%	.0%	4.4%	100.0%
Menufiya.....	4	24	2	1	4	35
.....	11.4%	68.6%	5.7%	2.9%	11.4%	100.0%
Minya.....	40	20	8	2	0	70
.....	57.1%	28.6%	11.4%	2.9%	.0%	100.0%
North Sinai.....	0	0	61	0	0	61
.....	.0%	.0%	100.0%	.0%	.0%	100.0%
Qalubiya.....	7	23	1	0	2	33
.....	21.2%	69.7%	3.0%	.0%	6.1%	100.0%
Red Sea.....	1	6	0	0	0	7
.....	14.3%	85.7%	.0%	.0%	.0%	100.0%
Sharqiya.....	131	29	6	1	4	171
.....	76.6%	17.0%	3.5%	.6%	2.3%	100.0%
Sohag.....	23	12	43	8	17	103
.....	22.3%	11.7%	41.7%	7.8%	16.5%	100.0%
South Sinai.....	9	1	0	0	0	10
.....	90.0%	10.0%	.0%	.0%	.0%	100.0%
Total.....	409	226	209	24	88	956

Distribution of Reason Class by Operational Status

	Reason Class					Total
	Financial	Contractor	Technical	Logistical	Administrative	
Operational Status						
Fully Operational.....	28	1	63	2	1	95
.....	29.5%	1.1%	66.3%	2.1%	1.1%	100.0%
Not Fully Operational...	381	225	146	22	87	861
.....	44.3%	26.1%	17.0%	2.6%	10.1%	100.0%
Total.....	409	226	209	24	88	956

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Distribution of Reason Class by Sector

	Reason Class					Total
	Financial	Contractor	Technical	Logistical	Administrative	
Sector						
Water.....	77	103	18	4	43	245
.....	31.4%	42.0%	7.3%	1.6%	17.6%	100.0%
Roads.....	56	77	1	1	7	142
.....	39.4%	54.2%	.7%	.7%	4.9%	100.0%
Wastewater.....	9	3	1	0	1	14
.....	64.3%	21.4%	7.1%	.0%	7.1%	100.0%
Environment.....	7	12	3	0	2	24
.....	29.2%	50.0%	12.5%	.0%	8.3%	100.0%
Buildings.....	259	29	185	19	34	526
.....	49.2%	5.5%	35.2%	3.6%	6.5%	100.0%
Others.....	1	2	1	0	1	5
.....	20.0%	40.0%	20.0%	.0%	20.0%	100.0%
Total.....	409	226	209	24	88	956

Distribution of Reason Class by Planning Year

Planning Year	Reason Class					Total
	Financial	Contractor	Technical	Logistical	Administrative	
1986-87.....	72	3	82	6	7	170
.....	42.4%	1.8%	48.2%	3.5%	4.1%	100.0%
1988.....	160	56	97	11	19	343
.....	46.6%	16.3%	28.3%	3.2%	5.5%	100.0%
1989.....	177	167	30	7	62	443
.....	40.0%	37.7%	6.8%	1.6%	14.0%	100.0%
Total.....	409	226	209	24	88	956

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Distribution of Reason Class by Size

	Reason Class					Total
	Financial	Contractor	Technical	Logistical	Administrative	
Size of Total Cash						
Less Than LE200K.....	389	212	208	24	85	918
.....	42.4%	23.1%	22.7%	2.6%	9.3%	100.0%
LE200K or More.....	20	14	1	0	3	38
.....	52.6%	36.8%	2.6%	.0%	7.9%	100.0%
Total.....	409	226	209	24	88	956

Distribution of Reason Class by Linkage to Other Projects

	Reason Class					Total
	Financial	Contractor	Technical	Logistical	Administrative	
Linkage to Other Projects						
Not Linked.....	304	199	122	13	65	703
.....	43.2%	28.3%	17.4%	1.8%	9.2%	100.0%
Linked.....	105	27	87	11	23	253
.....	41.5%	10.7%	4.4%	4.3%	9.1%	100.0%
Total.....	409	226	209	24	88	956

Distribution of Funds Needed to Complete or Operate the Subproject,
by Year -- Two Outliers Deleted

	Capital Funds				Operation Funds			
	Count	%	LE	%	Count	%	LE	%
Planning Year								
1986-87.....	3029	28.4%	1,788,617	6.1%	3029	28.4%	645,263	13.4%
1988.....	4413	41.4%	7,993,729	27.2%	4413	41.4%	2,046,489	42.5%
1989.....	3207	30.1%	19,608,824	66.7%	3207	30.1%	2,125,862	44.1%
Total.....	10649	100.0%	29,391,170	100.0%	10649	100.0%	4,817,614	100.0%

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Distribution of Funds Needed to Complete or Operate the Subproject,
by First Reason -- Two Outliers Deleted

	Capital Funds				Operation Funds			
	Count	%	LE	%	Count	%	LE	%
Reason Class								
No Response								
First Reason No response.....	9694	91.0%	10,961,938	37.3%	9694	91.0%	3,176,967	65.9%
Total.....	9694	91.0%	10,961,938	37.3%	9694	91.0%	3,176,967	65.9%
Financial								
First Reason Delayed LDII-P funds.....	6	.1%	185,000	.6%	6	.1%	0	.0%
Delayed non LD funds.....	14	.1%	77,710	.3%	14	.1%	12,000	.2%
No vil. accounting unit.....	2	.0%	0	.0%	2	.0%	150,000	3.1%
Project over budget.....	275	2.6%	9,658,307	32.9%	275	2.6%	802,927	16.7%
Lack of oper. funds.....	39	.4%	383,000	1.3%	39	.4%	69,500	1.4%
Other financial...	73	.7%	6,181,315	21.0%	73	.7%	388,200	8.1%
Total.....	409	3.8%	16,485,332	56.1%	409	3.8%	1,422,627	29.5%
Contractor								
First Reason Unqualified contractor.....	106	1.0%	490,400	1.7%	106	1.0%	42,100	.9%
Contractor replaced.....	12	.1%	27,000	.1%	12	.1%	0	.0%
No bids.....	40	.4%	0	.0%	40	.4%	25,000	.5%
Other contractor..	68	.6%	1,000,000	3.4%	68	.6%	12,000	.2%
Total.....	226	2.1%	1,517,400	5.2%	226	2.1%	79,100	1.6%
Technical								
First Reason Improper design...	11	.1%	27,500	.1%	11	.1%	3,000	.1%
Design change.....	15	.1%	106,500	.4%	15	.1%	5,300	.1%
No tech. assistance.....	13	.1%	0	.0%	13	.1%	0	.0%
No tech. know how.	157	1.5%	0	.0%	157	1.5%	106,000	2.2%
Other technical...	13	.1%	30,000	.1%	13	.1%	2,000	.0%

(continued)

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Distribution of Funds Needed to Complete or Operate the Subproject,
by First Reason -- Two Outliers Deleted

	Capital Funds				Operation Funds			
	Count	%	LE	%	Count	%	LE	%
Total.....	209	2.0%	164,000	.6%	209	2.0%	116,300	2.4%
Logistical								
First Reason								
Parts unavailable.	13	.1%	100,000	.3%	13	.1%	120	.0%
Other logistical..	11	.1%	50,000	.2%	11	.1%	12,500	.3%
Total.....	24	.2%	150,000	.5%	24	.2%	12,620	.3%
Administrative								
First Reason								
Conflict with other projects.	6	.1%	0	.0%	6	.1%	0	.0%
Lack of permits...	19	.2%	112,500	.4%	19	.2%	10,000	.2%
Lack of cooperation....	9	.1%	0	.0%	9	.1%	0	.0%
Plan change.....	12	.1%	0	.0%	12	.1%	0	.0%
Other administrative.	41	.4%	0	.0%	41	.4%	0	.0%
Total.....	87	.8%	112,500	.4%	87	.8%	10,000	.2%
TOTGRAND								
1.00.....	10649	100.0%	29,391,170	100.0%	10649	100.0%	4,817,614	100.0%

Distribution of Subprojects by Capital Funds Needed
to Complete or Operationalize Subproject

	Capital Funds			
	Count	Percent	Cap. Funds (LE)	Percent
Capital Funds Needed				
Zero.....	10161	95.4%	0	.0%
LE 1 - 25,000.....	277	2.6%	2,944,455	10.0%
LE 25,001 - 50,000.....	69	.6%	2,698,890	9.2%
LE 50,001 - 75,000.....	42	.4%	2,624,475	8.9%
LE 75,001 - 100,000.....	40	.4%	3,641,170	12.4%
LE 100,001 - 200,000.....	28	.3%	4,475,020	15.2%
LE 200,001 - 500,000.....	26	.2%	7,128,560	24.3%
LE 500,001 - 1,000,000.....	5	.0%	4,378,600	14.9%
Over LE 1,000,000.....	1	.0%	1,500,000	5.1%
Total.....	10649	100.0%	29,391,170	100.0%

Distribution of Subprojects by Funds Needed Per Year
to Operate and Maintain Subproject

	Operation Funds			
	Count	Percent	O&M Funds (LE)	Percent
O&M Funds Needed				
Zero.....	9939	93.3%	0	.0%
LE 1 - 25,000.....	684	6.4%	2,422,294	50.3%
LE 25,001 - 50,000.....	16	.2%	574,012	11.9%
LE 75,001 - 100,000.....	1	.0%	78,030	1.6%
LE 100,001 - 200,000.....	7	.1%	1,068,278	22.2%
LE 200,001 - 500,000.....	2	.0%	675,000	14.0%
Total.....	10649	100.0%	4,817,614	100.0%

Distribution of Funds Needed to Complete or Operate the Subproject,
by Year -- Truncated Estimates

	Capital Funds				Operation Funds			
	Count	%	LE	%	Count	%	LE	%
Planning Year								
1986-87.....	3029	28.4%	1,012,990	5.4%	3029	28.4%	403,074	22.3%
1988.....	4414	41.4%	4,962,133	25.6%	4414	41.4%	780,193	43.2%
1989.....	3208	30.1%	13,353,874	69.0%	3208	30.1%	622,904	34.5%
Total.....	10651	100.0%	19,358,997	100.0%	10651	100.0%	1,806,171	100.0%

Distribution of Funds Needed to Complete or Operate the Subproject,
by First Reason -- Truncated Estimates

	Capital Funds				Operation Funds			
	Count	%	LE	%	Count	%	LE	%
Reason Class								
No Response								
First Reason No response.....	9695	91.0%	8,909,137	46.0%	9695	91.0%	1,300,487	72.0%
Total.....	9695	91.0%	8,909,137	46.0%	9695	91.0%	1,300,487	72.0%
Financial								
First Reason Delayed LDII-P funds.....	6	.1%	185,000	1.0%	6	.1%	0	.0%
Delayed non LD funds.....	14	.1%	77,710	.4%	14	.1%	12,000	.7%
No vll. accounting unit.....	2	.0%	0	.0%	2	.0%	14,370	.8%
Project over budget.....	275	2.6%	5,396,037	27.9%	275	2.6%	242,134	13.4%
Lack of oper. funds.....	39	.4%	265,700	1.4%	39	.4%	23,794	1.3%
Other financial...	73	.7%	3,354,713	17.3%	73	.7%	50,376	2.8%
Total.....	409	3.8%	9,279,160	47.9%	409	3.8%	342,674	19.0%
Contractor								
First Reason Unqualified contractor.....	106	1.0%	269,300	1.4%	106	1.0%	42,100	2.3%
Contractor replaced.....	12	.1%	20,500	.1%	12	.1%	0	.0%
No bids.....	40	.4%	0	.0%	40	.4%	12,200	.7%
Other contractor...	68	.6%	581,190	3.0%	68	.6%	11,223	.6%
Total.....	226	2.1%	870,990	4.5%	226	2.1%	65,523	3.6%
Technical								
First Reason Improper design...	11	.1%	27,500	.1%	11	.1%	3,000	.2%
Design change....	15	.1%	57,700	.3%	15	.1%	3,000	.2%
No tech. assistance.....	13	.1%	0	.0%	13	.1%	0	.0%
No tech. know how.	157	1.5%	0	.0%	157	1.5%	22,837	1.3%
Other technical...	13	.1%	30,000	.2%	13	.1%	2,000	.1%

(continues)

Distribution of Funds Needed to Complete or Operate the Subproject,
by First Reason -- Truncated Estimates

	Capital Funds				Operation Funds			
	Count	%	LE	%	Count	%	LE	%
Total.....	209	2.0%	115,200	.6%	209	2.0%	30,837	1.7%
Logistical								
First Reason								
Parts unavailable.	13	.1%	67,000	.3%	13	.1%	120	.0%
Other logistical..	11	.1%	50,000	.3%	11	.1%	6,531	.4%
Total.....	24	.2%	117,000	.6%	24	.2%	6,651	.4%
Administrative								
First Reason								
Conflict with other projects.	6	.1%	0	.0%	6	.1%	0	.0%
Lack of permits...	19	.2%	67,510	.3%	19	.2%	10,000	.6%
Lack of cooperation....	9	.1%	0	.0%	9	.1%	0	.0%
Plan change.....	12	.1%	0	.0%	12	.1%	0	.0%
Other administrative.	42	.4%	0	.0%	42	.4%	50,000	2.8%
Total.....	88	.8%	67,510	.3%	88	.8%	60,000	3.3%
TOTGRAND 1.00.....	10651	100.0%	19,358,997	100.0%	10651	100.0%	1,806,171	100.0%

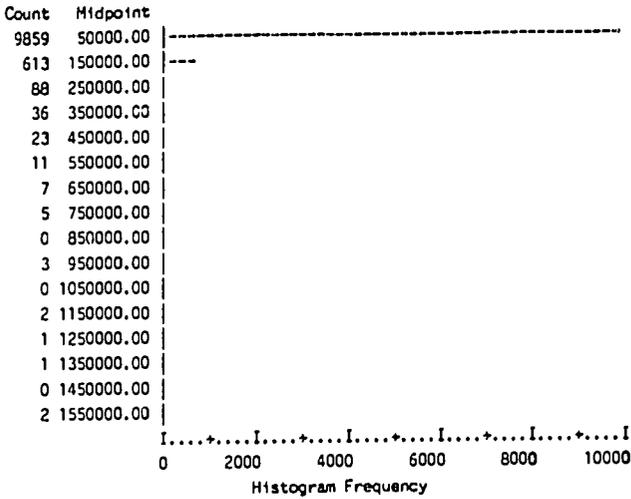
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Figure 15. Distribution of Reason Class by Sector,
 1983 Survey of Incomplete or Nonoperational Subprojects
 (Results for Three Governorates)

Sector	Reason Class										Total	
	Financial		Contractr.		Technical		Logistical		Admin.			
Water	0	0.0%	22	28.2%	3	3.8%	53	67.9%	0	0.0%	78	100.0%
Roads	0	0.0%	52	74.3%	16	22.9%	0	0.0%	2	2.9%	70	100.0%
Total	0	0.0%	74	50.0%	19	12.8%	53	0.0%	2	1.4%	148	100.0%

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AIDFUND AID Fund



Mean	39393.745	Std Err	622.406	Median	21592.000
Mode	18182.000	Std Dev	64234.581	Variance	4126081460
Kurtosis	130.659	S E Kurt	.047	Skewness	8.577
S E Skew	.024	Range	1562846.00	Minimum	.000
Maximum	1562846.00	Sum	419582774		

Valid Cases 10651 Missing Cases 0

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/histogram increment(100000)
/statistics all.

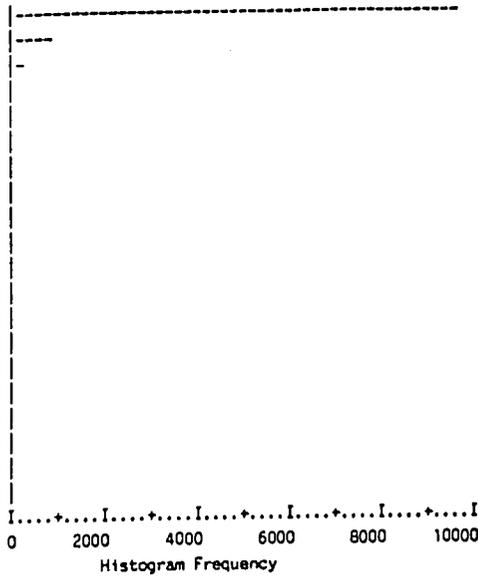
```

***** Memory allows a total of 9289 Values, accumulated across all Variables.
 There also may be up to 1161 Value Labels for each Variable.

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TOTCASH Total Cash

Count	Midpoint
9534	50000.00
839	150000.00
162	250000.00
47	350000.00
19	450000.00
21	550000.00
11	650000.00
4	750000.00
3	850000.00
2	950000.00
2	1050000.00
0	1150000.00
1	1250000.00
1	1350000.00
0	1450000.00
2	1550000.00
0	1650000.00
2	1750000.00
0	1850000.00
1	1950000.00



Mean	46052.931	Std Err	730.679	Median	25000.000
Mode	20000.000	Std Dev	75408.779	Variance	5686483975
Kurtosis	152.053	S E Kurt	.047	Skewness	9.215
S E Skew	.024	Range	1999999.00	Minimum	.000
Maximum	1999999.00	Sum	490509766		

Valid Cases 10651 Missing Cases 0

This procedure was completed at 9:00:14

```

frequencies var= capitalf
  /format onepage limit(100)
  /histogram increment(100000)
  /statistics all.

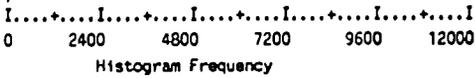
```

**** Memory allows a total of 9289 Values, accumulated across all Variables.
 There also may be up to 1161 Value Labels for each Variable.

1-2

CAPITALF Capital Funds

Count	Midpoint
10577	50000.00
32	150000.00
28	250000.00
4	350000.00
2	450000.00
1	550000.00
0	650000.00
1	750000.00
2	850000.00
0	950000.00
2	1050000.00
0	1150000.00
0	1250000.00
0	1350000.00
0	1450000.00
1	1550000.00
0	1650000.00
0	1750000.00
0	1850000.00
0	1950000.00
0	2050000.00
0	2150000.00
0	2250000.00
0	2350000.00
0	2450000.00
0	2550000.00
0	2650000.00
0	2750000.00
0	2850000.00
0	2950000.00
0	3050000.00
0	3150000.00
0	3250000.00
0	3350000.00
0	3450000.00
0	3550000.00
0	3650000.00
0	3750000.00
0	3850000.00
0	3950000.00
0	4050000.00
0	4150000.00
0	4250000.00
0	4350000.00
0	4450000.00
0	4550000.00
0	4650000.00
0	4750000.00
0	4850000.00
1	4950000.00



CAPITALF Capital Funds

Mean	3228.915	Std Err	551.581	Median	.000
Mode	.000	Std Dev	56925.230	Variance	3240481840

119

Kurtosis	5649.798	S E Kurt	.047	Skewness	67.397
S E Skew	.024	Range	5000000.00	Minimum	.000
Maximum	5000000.00	Sum	34391170.0		

Valid Cases 10651 Missing Cases 0

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This procedure was completed at 9:01:11

```
freqencies var= operfnd
/format onepage limit(100)
/histogram increment(25000)
/statistics all.
```

***** Memory allows a total of 9289 Values, accumulated across all Variables.
There also may be up to 1161 Value Labels for each Variable.

120

OPERFND . Operation Funds

Count Midpoint

10621	12500.00
18	37500.00
1	62500.00
1	87500.00
2	112500.00
1	137500.00
2	162500.00
0	187500.00
2	212500.00
0	237500.00
0	262500.00
0	287500.00
1	312500.00
0	337500.00
0	362500.00
1	387500.00
0	412500.00
0	437500.00
0	462500.00
0	487500.00
0	512500.00
0	537500.00
0	562500.00
0	587500.00
0	612500.00
0	637500.00
0	662500.00
0	687500.00
0	712500.00
0	737500.00
0	762500.00
0	787500.00
0	812500.00
0	837500.00
0	862500.00
0	887500.00
0	912500.00
0	937500.00
0	962500.00
0	987500.00
0	1012500.00
0	1037500.00
0	1062500.00
0	1087500.00
0	1112500.00
0	1137500.00
0	1162500.00
0	1187500.00
0	1212500.00
0	1237500.00
0	1262500.00
0	1287500.00
0	1312500.00
0	1337500.00
0	1362500.00

OPERFND . Operation Funds

0 1387500.00

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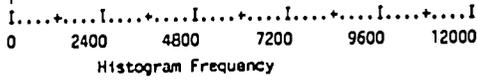
0 1412500.00 |
0 1437500.00 |
0 1462500.00 |
0 1487500.00 |
0 1512500.00 |
0 1537500.00 |
0 1562500.00 |
0 1587500.00 |
0 1612500.00 |
0 1637500.00 |
0 1662500.00 |
0 1687500.00 |
0 1712500.00 |
0 1737500.00 |
0 1762500.00 |
0 1787500.00 |
0 1812500.00 |
0 1837500.00 |
0 1862500.00 |
0 1887500.00 |
0 1912500.00 |
0 1937500.00 |
0 1962500.00 |
0 1987500.00 |
0 2012500.00 |
0 2037500.00 |
0 2062500.00 |
0 2087500.00 |
0 2112500.00 |
0 2137500.00 |
0 2162500.00 |
0 2187500.00 |
0 2212500.00 |
0 2237500.00 |
0 2262500.00 |
0 2287500.00 |
0 2312500.00 |
0 2337500.00 |
0 2362500.00 |
0 2387500.00 |
0 2412500.00 |
0 2437500.00 |
0 2462500.00 |
0 2487500.00 |
0 2512500.00 |
0 2537500.00 |
0 2562500.00 |
0 2587500.00 |
0 2612500.00 |
0 2637500.00 |
0 2662500.00 |
0 2687500.00 |
0 2712500.00 |
0 2737500.00 |
0 2762500.00 |

OPERFND Operation Funds

0 2787500.00 |
0 2812500.00 |
0 2837500.00 |
0 2862500.00 |
0 2887500.00 |
0 2912500.00 |
0 2937500.00 |

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0 2962500.00 |
 0 2987500.00 |
 0 3012500.00 |
 0 3037500.00 |
 0 3062500.00 |
 0 3087500.00 |
 0 3112500.00 |
 0 3137500.00 |
 0 3162500.00 |
 0 3187500.00 |
 0 3212500.00 |
 0 3237500.00 |
 0 3262500.00 |
 0 3287500.00 |
 0 3312500.00 |
 0 3337500.00 |
 0 3362500.00 |
 0 3387500.00 |
 0 3412500.00 |
 0 3437500.00 |
 0 3462500.00 |
 1 3487500.00 |



Mean	780.923	Std Err	334.570	Median	.000
Mode	.000	Std Dev	34528.897	Variance	1192244711
Kurtosis	9908.584	S E Kurt	.047	Skewness	97.994
S E Skew	.024	Range	3500000.00	Minimum	.000
Maximum	3500000.00	Sum	8317614.00		

Valid Cases 10651 Missing Cases 0

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APPENDIX C

SPSS/PC+ COMMAND FILES USED IN THE ANALYSIS

The SPSS/PC+ system file is read from
file f:\home\george\spss\nonnew\non.sys8

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This procedure was completed at 14:12:58

display all.

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Variable: SERIALNO Label: * No label *
No value labels Type: Number Width: 3 Dec: 0 Missing: * None *

Variable: GEOCODE Label: * No label *
No value labels Type: String Width: 6 Missing: * None *

Variable: PLANYEAR Label: Planning Year
Value labels follow Type: String Width: 2 Missing: * None *
86 1986 87 1987
88 1988 89 1989

Variable: SPONSOR Label: Sponsorship
Value labels follow Type: String Width: 1 Missing:
G Governorate M Markaz
C City V Village
Missing

Variable: PROJNATU Label: Project Nature
Value labels follow Type: String Width: 1 Missing:
C Completion E Extension
R Rehabilitation N New
U Upgraded

Variable: AIDFUND Label: AID Fund
No value labels Type: Number Width: 7 Dec: 0 Missing: * None *

Variable: PREVSPEN Label: Previous Spent
No value labels Type: Number Width: 7 Dec: 0 Missing: * None *

Variable: PREVINVE Label: Previous Investment
No value labels Type: Number Width: 7 Dec: 0 Missing: * None *

Variable: CURRSPEN Label: Current Spent
No value labels Type: Number Width: 7 Dec: 0 Missing: * None *

Variable: CURRINVE Label: Current Investment
No value labels Type: Number Width: 7 Dec: 0 Missing: * None *

Variable: CURRSTAT Label: Current Status
Value labels follow Type: String Width: 1 Missing:
R Unstarted T Tendered
A Awarded P Site Possessed
U Underway S Stopped
C Completed H Handed Over
O Operational

Variable: CURRSTOP Label: Current Stop
Value labels follow Type: String Width: 1 Missing:
A Administrative F Financial
T Technical

Variable: GEOCODEN Label: * No label *
No value labels Type: Number Width: 6 Dec: 0 Missing: * None *

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Variable: BLKGRANT Label: Block Grant
 No value labels Type: Number Width: 8 Dec: 2 Missing: * None *

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Variable: TOTCASH Label: Total Cash
 No value labels Type: Number Width: 8 Dec: 2 Missing: * None *

Variable: SIZE Label: Size of Total Cash
 Value labels follow Type: Number Width: 8 Dec: 2 Missing: * None *
 1.00 Less Than LE200K 2.00 LE200K or More

Variable: GOV Label: Governorate
 Value labels follow Type: Number Width: 8 Dec: 2 Missing: * None *
 1.00 Asswan 2.00 Assyout
 3.00 Beheira 4.00 Beni Suef
 5.00 Damietta 6.00 Daqahliya
 7.00 Fayoum 8.00 Gharbiya
 9.00 Giza 10.00 Ismailia
 11.00 Kafr El Sheikh 12.00 Matrouh
 13.00 Menufiya 14.00 Minya
 15.00 New Valley 16.00 North Sinai
 17.00 Qalubiya 18.00 Qena
 19.00 Red Sea 20.00 Sharqiya
 21.00 Sohag 22.00 South Sinai

Variable: MARKAZ Label: Markaz
 No value labels Type: Number Width: 8 Dec: 2 Missing: * None *

Variable: VIL Label: * No label *
 No value labels Type: Number Width: 8 Dec: 2 Missing: * None *

Variable: SECTOR Label: Sector
 Value labels follow Type: Number Width: 8 Dec: 2 Missing: * None *
 1.00 Water 2.00 Roads
 3.00 Wastewater 4.00 Environment
 5.00 Buildings 6.00 General
 7.00 Others

Variable: YEAR Label: Planning Year
 Value labels follow Type: String Width: 2 Missing:
 87 1986-87 88 1988
 89 1989

Variable: STATUS Label: Operational Status
 Value labels follow Type: Number Width: 1 Dec: 0 Missing: .00
 .00 Status Unknown 1.00 Compl. Fully Operational
 2.00 Compl. Not Fully Operati 3.00 Uncompl., Multiyear Proj
 4.00 Uncompleted 5.00 Unusable
 6.00 Cancelled

Variable: REASON1 Label: First Reason
 Value labels follow Type: String Width: 2 Missing:
 No response 11 Delayed LOII-P funds
 12 Delayed non LO funds 13 No vil. accounting unit
 14 Project over budget 15 Lack of oper. funds
 16 Other financial 21 Unqualified contractor
 22 Contractor replaced 23 No bids
 24 Contractor problems 25 Other contractor
 31 Improper design 32 Design change
 33 No tech. assistance 34 No tech. know how
 35 Other technical 41 Parts unavailable

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42 Other logistical 51 Conflict with other proj
 52 Lack of permits 53 Lack of cooperation

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54 Plan change 55 Other administrative

Variable: REASON2 Label: Second Reason
 Value labels follow Type: String Width: 2 Missing:
 No response 11 Delayed LDII-P funds
 12 Delayed non LD funds 13 No vil. accounting unit
 14 Project over budget 15 Lack of oper. funds
 16 Other financial 21 Unqualified contractor
 22 Contractor replaced 23 No bids
 24 Contractor problems 25 Other contractor
 31 Improper design 32 Design change
 33 No tech. assistance 34 No tech. know how
 35 Other technical 41 Parts unavailable
 42 Other logistical 51 Conflict with other proj
 52 Lack of permits 53 Lack of cooperation
 54 Plan change 55 Other administrative

Variable: REASON3 Label: Third Reason
 Value labels follow Type: String Width: 2 Missing:
 No response 11 Delayed LDII-P funds
 12 Delayed non LD funds 13 No vil. accounting unit
 14 Project over budget 15 Lack of oper. funds
 16 Other financial 21 Unqualified contractor
 22 Contractor replaced 23 No bids
 24 Contractor problems 25 Other contractor
 31 Improper design 32 Design change
 33 No tech. assistance 34 No tech. know how
 35 Other technical 41 Parts unavailable
 42 Other logistical 51 Conflict with other proj
 52 Lack of permits 53 Lack of cooperation
 54 Plan change 55 Other administrative

Variable: CAPITALF Label: Capital Funds
 No value labels Type: Number Width: 7 Dec: 0 Missing: * None *

Variable: OPERFND Label: Operation Funds
 No value labels Type: Number Width: 7 Dec: 0 Missing: * None *

Variable: LINK Label: Linkage to Other Projects
 Value labels follow Type: Number Width: 8 Dec: 2 Missing: * None *
 .00 Not Linked 1.00 Linked

Variable: OPER Label: Operational Status
 Value labels follow Type: Number Width: 8 Dec: 2 Missing: .00
 .00 Unknown 1.00 Fully Operational
 2.00 Not Fully Operational

Variable: DUMMY Label: Frequency
 Value labels follow Type: String Width: 1 Missing:
 1 Count Percent

Variable: REASCLAS Label: Reason Class
 Value labels follow Type: String Width: 2 Missing:
 No Response 1 Financial
 2 Contractor 3 Technical
 4 Logistical 5 Administrative

```
comp totgrand=1.
if (reason1 ne ' ') treason1=1.
if (reason2 ne ' ') treason2=1.
if (reason3 ne ' ') treason3=1.
if (reasclas ne ' ') treasca=1.
```

Link

```

set more=off.
tra from 'f:\home\george\spss\nonnew\qpr9009.dbf'.
comp blkgrant = aidfund + geopl + geofin.
comp totcash = blkgrant + popincas + govincas.
comp size = totcash.
comp gov = trunc ( geocoden / 10000 ).
comp markaz = geocoden - gov * 10000.
comp markaz = trunc ( markaz / 100 ).
comp vil = geocoden - gov * 10000 - markaz * 100.
comp sector = projcode.
recode sector ( 0 THRU 39 = 1) (50 THRU 89 = 2)
              (100 THRU 139 = 3) (150 THRU 189 = 4)
              (200 THRU 239 = 5) (250 THRU 289 = 6)
              ( else = 7)
              /size (lo thru 199999 = 1) (200000 thru hi = 2)
              /currstat ('N' = 'R').
comp year=planyear.
recode year('86','87'='87').
var lab gov 'Governorate' markaz 'Markaz' planyear 'Planning Year'
      year 'Planning Year' sector 'Sector'
      sponsor 'Sponsorship' projnatu 'Project Nature' aidfund 'AID Fund'
      blkgrant 'Block Grant' totcash 'Total Cash' size 'Size of Total Cash'
      prevspen 'Previous Spent' previnv 'Previous Investment'
      currspen 'Current Spent' currinv 'Current Investment'
      currstat 'Current Status' currstop 'Current Stop'.
val lab sector 1 'Water' 2 'Roads' 3 'Wastewater'
              4 'Environment' 5 'Buildings' 6 'General' 7 'Others'
      /gov 1 'Asswan' 2 'Assyout' 3 'Beheira' 4 'Beni Suef'
              5 'Damietta' 6 'Daqahliya' 7 'Fayoum' 8 'Gharbiya'
              9 'Giza' 10 'Ismailia' 11 'Kafr El Sheikh' 12 'Matrouh'
              13 'Menufiya' 14 'Minya' 15 'New Valley' 16 'North Sinai'
              17 'Qalubiya' 18 'Qena' 19 'Red Sea' 20 'Sharqiya'
              21 'Sohag' 22 'South Sinai'
      /sponsor 'G' 'Governorate' 'M' 'Markaz' 'C' 'City' 'V' 'Village'
              ' ' 'Missing'
      /projnatu 'C' 'Completion' 'E' 'Extension' 'R' 'Rehabilitation'
              'N' 'New' 'U' 'Upgraded'
      /currstat 'R' 'Unstarted' 'T' 'Tendered' 'A' 'Awarded'
              'P' 'Site Possessed' 'U' 'Underway' 'S' 'Stopped'
              'C' 'Completed' 'H' 'Handed Over' 'O' 'Operational'
      /currstop 'A' 'Administrative' 'F' 'Financial' 'T' 'Technical'
      /size 1 'Less Than LE200K' 2 'LE200K or More'
      /planyear '86' '1986' '87' '1987' '88' '1988' '89' '1989'
      /year '87' '1986-87' '88' '1988' '89' '1989'.
mis val sponsor projnatu currstat currstop (' ').
sort cases by geocode planyear serialno.
save outfile 'f:\home\george\spss\nonnew\qpr.sys'
      / drop = geopl geofin popincas popinkin govincas govinkin bankinte otherfun
      projcode location .
set more=on.

```

```

set more=off.
tra from 'f:\home\george\spss\nonnew\srw9009.dbf'.
recode reason1 ('18'='16') ('4'='42') ('40'='42') ('48'='42').
comp link = 0.
if ( !s1 ne 0 or !s2 ne 0 or !s3 ne 0 ) link = 1.
var lab status 'Operational Status' reason1 'First Reason'
      reason2 'Second Reason' reason3 'Third Reason'
      capitalf 'Capital Funds' operfd 'Operation Funds'
      link 'Linkage to Other Projects'.
val lab status 0 'Status Unknown'
              1 'Compl. Fully Operational'
              2 'Compl. Not Fully Operational'
              3 'Uncompl., Multiyear Project'
              4 'Uncompleted'
              5 'Unusable'
              6 'Cancelled'

/link 0 'Not Linked' 1 'Linked'
/reason1 to reason3
' ' 'No response'
'11' 'Delayed LDII-P funds'
'12' 'Delayed non LD funds'
'13' 'No v11. accounting unit'
'14' 'Project over budget'
'15' 'Lack of oper. funds'
'16' 'Other financial'
'21' 'Unqualified contractor'
'22' 'Contractor replaced'
'23' 'No bids'
'24' 'Contractor problems'
'25' 'Other contractor'
'31' 'Improper design'
'32' 'Design change'
'33' 'No tech. assistance'
'34' 'No tech. know how'
'35' 'Other technical'
'41' 'Parts unavailable'
'42' 'Other logistical'
'51' 'Conflict with other projects'
'52' 'Lack of permits'
'53' 'Lack of cooperation'
'54' 'Plan change'
'55' 'Other administrative'.

mis val status (0).
mis val reason1 to reason3 (' ').
comp oper=status.
if (missing(status)) oper=0.
mis val oper(0).
recode oper(2,3,4,5,6=2).
var lab oper 'Operational Status'.
val lab oper 0 'Unknown' 1 'Fully Operational' 2 'Not Fully Operational'.
comp dummy='1'.
var lab dummy 'Frequency'.
val lab dummy '1' 'Count' Percent'.
comp reasclas=reason1.
recode reasclas ('11','12','13','14','15','16'=' 1')

```

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```
('21','22','23','24','25'=' 2') ('31','32','33','34','35'=' 3')
('41','42'=' 4') ('51','52','53','54','55'=' 5').
mis val reascias (' ').
var lab reascias 'Reason Class'.
val lab reascias ' ' 'No Response' ' 1' 'Financial' ' 2' 'Contractor'
' 3' 'Technical' ' 4' 'Logistical' ' 5' 'Administrative'.
sort cases by geocode planyear serialno.
save outfile 'f:\home\george\spss\nonnew\sur.sys'
/ drop = lgovcode lp1 ls1 lp2 ls2 lp3 ls3 geocoden.
set more=on.
```

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```
set more=off.  
get f11 'f:\home\george\spss\nonnew\qpr.sys'.  
join match file=* / file='f:\home\george\spss\nonnew\sur.sys'  
  / by geocode planyear serialno / map.  
save outfile 'f:\home\george\spss\nonnew\non.sys' / drop d_r.  
set more=on.
```

```
set more=off len=50 print=on.
get file 'f:\home\george\sps\nonnew\non.sys'.

display all.

comp totgrand=1.
if (reason1 ne ' ') treason1=1.
if (reason2 ne ' ') treason2=1.
if (reason3 ne ' ') treason3=1.
if (reasclas ne ' ') treasca=1.

var lab totgrand 'Grand Total' /treason1 'Grand Total' /treason2 'Grand Total'
/treason3 'Grand Total' /treasca 'Grand Total'.

val lab totgrand 1 '' /treason1 1 '' /treason2 1 '' /treason3 1 ''
/treasca 1 ''.

tables format = margins(1,132) zero leader('.') cwidth(14,14) box
/missing=include
/base=qualified
/ftotal=t1'Total'
/table=gov + t1 by dummy
/statistics=count('') cpct('')
/ttitle='Distribution of Subprojects by Governorate'.
print tables / device = hplaser / compressed.

tables format = margins(1,132) zero leader('.') cwidth(14,14) box
/missing=include
/base=qualified
/ftotal=t1'Total'
/table=sector + t1 by dummy
/statistics=count('') cpct('')
/ttitle='Distribution of Subprojects by Sector'.
print tables / device = hplaser / compressed.

tables format = margins(1,132) zero leader('.') cwidth(14,14) box
/missing=include
/base=qualified
/ftotal=t1'Total'
/table=planyear + t1 by dummy
/statistics=count('') cpct('')
/ttitle='Distribution of Subprojects by Planning Year'.
print tables / device = hplaser / compressed.

tables format = margins(1,132) zero leader('.') cwidth(14,14) box
/missing=include
/base=qualified
/ftotal=t1'Total'
/table=year + t1 by dummy
/statistics=count('') cpct('')
/ttitle='Distribution of Subprojects by Planning Year'.
print tables / device = hplaser / compressed.

tables format = margins(1,132) zero leader('.') cwidth(20,14) box
/missing=include
```

```

/base=qualified
/ftotal=t1'Total'
/table=size + t1 by dummy
/statistics=count('') cpct('')
/ttitle='Distribution of Subprojects by Size (Total Cash)'.
print tables / device = hplaser / compressed.

```

```

tables format = margins(1,132) zero leader('.') cwidth(30,14) box
/missing=include
/base=qualified
/ftotal=t1'Total'
/table=status + t1 by dummy
/statistics=count('') cpct('')
/ttitle='Distribution of Subprojects by Operational Status'.
print tables / device = hplaser / compressed.

```

```

tables format = margins(1,132) zero leader('.') cwidth(30,14) box
/missing=include
/base=qualified
/ftotal=t1'Total'
/table=link + t1 by dummy
/statistics=count('') cpct('')
/ttitle='Distribution of Subprojects by Linkage to Other Projects'.
print tables / device = hplaser / compressed.

```

```

tables format = margins(1,132) zero leader('.') cwidth(30,14) box
/missing=include
/base=qualified
/ftotal=t1 'Total'
/table=oper > (reason1 + t1) + totgrand by dummy
/statistics=count('') cpct('')
/ttitle='Distribution of Subprojects by Operational Status and First Reason'.
print tables / device = hplaser / compressed.

```

```

tables format = margins(1,132) zero leader('.') cwidth(30,14) box
/ftotal=t1 'Total'
/table=oper > (reason1 + t1) + treason1 by dummy
/statistics=count('') cpct('')
/ttitle='Distribution of Subprojects by Operational Status and First Reason'
'(for Subprojects for Which First Reason Was Indicated)'.
print tables / device = hplaser / compressed.

```

```

tables format = margins(1,132) zero leader('.') cwidth(30,14) box
/ftotal=t1'Total'
/table=oper > (reason2 + t1) + treason2 by dummy
/statistics=count('') cpct('')
/ttitle='Distribution of Subprojects by Operational Status and Second Reason'
'(for Subprojects for Which Second Reason Was Indicated)'.
print tables / device = hplaser / compressed.

```

```

tables format = margins(1,132) zero leader('.') cwidth(30,14) box
/ftotal=t1'Total'
/table=oper > (reason3 + t1) + treason3 by dummy
/statistics=count('') cpct('')
/ttitle='Distribution of Subprojects by Operational Status and Third Reason'

```

```
'(for Subprojects for Which Third Reason Was Indicated)'.
print tables / device = hplaser / compressed.

tables format = margins(1,132) zero leader('.') cwidth(30,14) box
/ftotal=t1'Total'
/table=reasc1as > (reason1 + t1) + treason1 by dummy
/statistics=count('') cpct('')
/ttitle='Distribution of Subprojects by First Reason'
'(for Subprojects for Which First Reason Was Indicated)'.
print tables / device = hplaser / compressed.

tables format = margins(1,132) zero leader('.') cwidth(30,14) box
/ftotal=t1'Total'
/table=reasc1as > (reason2 + t1) + treason2 by dummy
/statistics=count('') cpct('')
/ttitle='Distribution of Subprojects by Second Reason'
'(for Subprojects for Which Second Reason Was Indicated)'.
print tables / device = hplaser / compressed.

tables format = margins(1,132) zero leader('.') cwidth(30,14) box
/ftotal=t1'Total'
/table=reasc1as > (reason3 + t1) + treason3 by dummy
/statistics=count('') cpct('')
/ttitle='Distribution of Subprojects by Third Reason'
'(for Subprojects for Which Third Reason Was Indicated)'.
print tables / device = hplaser / compressed.

tables format = margins(1,132) zero leader('.') cwidth(30,14) box
/ftotal=t1'Total'
/table=oper > (reasc1as + t1) + treasc1a by dummy
/statistics=count('') cpct('')
/ttitle='Distribution of Subprojects by Operational Status and Reason Class'
'(for Subprojects for Which First Reason Was Indicated)'.
print tables / device = hplaser / compressed.

tables format = margins(1,132) zero leader('.') cwidth(30,14) box
/ftotal=t1'Total'
/table=reasc1as + t1 by dummy
/statistics=count('') cpct('')
/ttitle='Distribution of Subprojects by Reason Class'
'(for Subprojects for Which First Reason Was Indicated)'.
print tables / device = hplaser / compressed.

set more=on len=24 eject=off print=off.
```

```
set more=off len=58 print=on.
get file 'f:\home\george\sps\nonnew\non.sys'.
```

```
tables format = margins(1,132) zero leader('.') cwidth(14,12) box
/missing=include
/base=qualified
/ftotal=t1'Total'
/table=gov + t1 by status + t1
/statistics=count('') cpct(gov':gov)
/tttitle='Distribution of Subproject Operational Status by Governorate'.
print tables /device = hplaser /compressed.
```

```
tables format = margins(1,132) zero leader('.') cwidth(14,12) box
/missing=include
/base=qualified
/ftotal=t1'Total'
/table=year + t1 by status + t1
/statistics=count('') cpct(year':year)
/tttitle='Distribution of Subproject Operational Status by Planning Year'.
print tables /device = hplaser /compressed.
```

```
tables format = margins(1,132) zero leader('.') cwidth(14,12) box
/missing=include
/base=qualified
/ftotal=t1'Total'
/table=sector + t1 by status + t1
/statistics=count('') cpct(sector':sector)
/tttitle='Distribution of Subproject Operational Status by Sector'.
print tables /device = hplaser /compressed.
```

```
tables format = margins(1,132) zero leader('.') cwidth(14,12) box
/missing=include
/base=qualified
/ftotal=t1'Total'
/table=size + t1 by status + t1
/statistics=count('') cpct(size':size)
/tttitle='Distribution of Subproject Operational Status by Size'.
print tables /device = hplaser /compressed.
```

```
tables format = margins(1,132) zero leader('.') cwidth(14,12) box
/missing=include
/base=qualified
/ftotal=t1'Total'
/table=link + t1 by status + t1
/statistics=count('') cpct(link':link)
/tttitle=
'Distribution of Subproject Operational Status by Linkage to Other Projects'.
print tables /device = hplaser /compressed.
```

```
tables format = margins(1,132) zero leader('.') cwidth(24,14) box
/ftotal=t1'Total'
/table=oper + t1 by reascas + t1
/statistics=count('') cpct(oper':oper)
/tttitle='Distribution of Reason Class by Operational Status'.
print tables /device = hplaser /compressed.
```

```

tables format = margins(1,132) zero leader('.') cwidth(24,14) box
/ftotal=t1'Total'
/table=gov + t1 by reasclas + t1
/statistics=count('') cpct(gov':gov)
/ttitle='Distribution of Reason Class by Governorat.'.
print tables /device = hplaser /compressed.

```

```

tables format = margins(1,132) zero leader('.') cwidth(24,14) box
/ftotal=t1'Total'
/table=sector + t1 by reasclas + t1
/statistics=count('') cpct(sector':sector)
/ttitle='Distribution of Reason Class by Sector'.
print tables /device = hplaser /compressed.

```

```

tables format = margins(1,132) zero leader('.') cwidth(24,14) box
/ftotal=t1'Total'
/table=year + t1 by reasclas + t1
/statistics=count('') cpct(year':year)
/ttitle='Distribution of Reason Class by Planning Year'.
print tables /device = hplaser /compressed.

```

```

tables format = margins(1,132) zero leader('.') cwidth(24,14) box
/ftotal=t1'Total'
/table=size + t1 by reasclas + t1
/statistics=count('') cpct(size':size)
/ttitle='Distribution of Reason Class by Size'.
print tables /device = hplaser /compressed.

```

```

tables format = margins(1,132) zero leader('.') cwidth(24,14) box
/ftotal=t1'Total'
/table=link + t1 by reasclas + t1
/statistics=count('') cpct(link':link)
/ttitle='Distribution of Reason Class by Linkage to Other Projects'.
print tables /device = hplaser /compressed.

```

```

tables format = margins(1,132) zero leader('.') cwidth(14,6) box
/ftotal=t1'Total'
/table=sector + t1 by year > oper + t1
/statistics=count('') cpct('':sector year)
/ttitle='Distribution of Operational Status by Sector and Planning Year'.
print tables /device = hplaser /compressed.

```

```

tabi: format = margins(1,132) zero leader('.') cwidth(14,6) box
/ftotal=t1'Total'
/table=gov + t1 by year > oper + t1
/statistics=count('') cpct('':gov year)
/ttitle='Distribution of Operational Status by Governorate and Planning Year'.
print tables /device = hplaser /compressed.

```

```

tables format = margins(1,132) zero leader('.') cwidth(14,6) box
/ftotal=t1'Total'
/table=gov + t1 by year > oper + t1 by sector
/statistics=count('') cpct('':gov year sector)
/ttitle=

```

'Distribution of Operational Status by Governorate, Planning Year and Sector'.
print tables /device = hplaser /compressed.

set more=on len=24 eject=off print=off.

```
set more=off len=58 print=on.
get fil='f:\home\george\spss\nonnew\non.sys'.
comp x = 1.
var lab x 'Grand Total'
  / gov sector totcash size ''.
val lab x 1 ''.

tables format = margins(1,132) zero leader ('.') cwidth (30,14) box
  /observation = totcash
  /missing = include
  /base = qualified
  /ftotal = t1 'Total'
  /table = gov + t1 by totcash
  /statistics = count cpct ( 'Percent' )
                sum ( totcash 'Total Cash (LE)' (comma12.0) )
                spct ( 'Percent' )
  /ttitle = 'Distribution of AID Funds (Total Cash) and Subprojects'
            'by Governorats'.
print tables / device = hplaser / compressed.
```

```
tables format = margins(1,132) zero leader ('.') cwidth (30,14) box
  /observation = totcash
  /missing = include
  /base = qualified
  /ftotal = t1 'Total'
  /table = sector + t1 by totcash
  /statistics = count cpct ( 'Percent' )
                sum ( totcash 'Total Cash (LE)' (comma12.0) )
                spct ( 'Percent' )
  /ttitle = 'Distribution of AID Funds (Total Cash) and Subprojects'
            'by Sector'.
print tables / device = hplaser / compressed.
```

```
tables format = margins(1,132) zero leader ('.') cwidth (30,14) box
  /observation = totcash
  /missing = include
  /base = qualified
  /ftotal = t1 'Total'
  /table = planyear + t1 by totcash
  /statistics = count cpct ( 'Percent' )
                sum ( totcash 'Tctal Cash (LE)' (comma12.0) )
                spct ( 'Percent' )
  /ttitle = 'Distribution of AID Funds (Total Cash) and Subprojects'
            'by Planning Year'.
print tables / device = hplaser / compressed.
```

```
tables format = margins(1,132) zero leader ('.') cwidth (30,14) box
  /observatn = totcash
  /missing = include
  /base = qualified
  /ftotal = t1 'Total'
  /table = year + t1 by totcash
  /statistics = count cpct ( 'Percent' )
                sum ( totcash 'Total Cash (LE)' (comma12.0) )
                spct ( 'Percent' )
```

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```
/ttitle = 'Distribution of AID Funds (Total Cash) and Subprojects'  
  'by Planning Year'.  
print tables / device = hplaser / compressed.
```

```
tables format = margins(1,132) zero leader ('.') cwidth (30,14) box  
  /observation = totcash  
  /missing = include  
  /base = qualified  
  /ftotal = t1 'Total'  
  /table = size + t1 by totcash  
  /statistics = count cpct ( 'Percent' )  
                sum ( totcash 'Total Cash (LE)' (comma12.0) )  
                spct ( 'Percent' )  
/ttitle = 'Distribution of AID Funds (Total Cash) and Subprojects'  
  'by Size'.  
print tables / device = hplaser / compressed.
```

```
tables format = margins(1,132) zero leader ('.') cwidth (30,14) box  
  /observation = totcash  
  /missing = include  
  /base = qualified  
  /ftotal = t1 'Total'  
  /table = link + t1 by totcash  
  /statistics = count cpct ( 'Percent' )  
                sum ( totcash 'Total Cash (LE)' (comma12.0) )  
                spct ( 'Percent' )  
/ttitle = 'Distribution of AID Funds (Total Cash) and Subprojects'  
  'by Linkage to Other Subprojects'.  
print tables / device = hplaser / compressed.
```

```
tables format = margins(1,132) zero leader ('.') cwidth (30,14) box  
  /observation = totcash  
  /missing = include  
  /base = qualified  
  /ftotal = t1 'Total'  
  /table = status + t1 by totcash  
  /statistics = count cpct ( 'Percent' )  
                sum ( totcash 'Total Cash (LE)' (comma12.0) )  
                spct ( 'Percent' )  
/ttitle = 'Distribution of AID Funds (Total Cash) and Subprojects'  
  'by Operational Status'.  
print tables / device = hplaser / compressed.
```

```
tables format = margins(1,132) zero leader ('.') cwidth (30,14) box  
  /observation = totcash  
  /missing = include  
  /base = qualified  
  /ftotal = t1 'Total'  
  /table = oper + t1 by totcash  
  /statistics = count cpct ( 'Percent' )  
                sum ( totcash 'Total Cash (LE)' (comma12.0) )  
                spct ( 'Percent' )  
/ttitle = 'Distribution of AID Funds (Total Cash) and Subprojects'  
  'by Operational Status'.  
print tables / device = hplaser / compressed.
```

```

tables format = margins(1,132) zero leader ('.') cwidth (30,14) box
/observation = totcash
/missing = include
/base = qualified
/ftotal = t1 'Total'
/table = Gov > (oper + t1) + x by totcash
/statistics = count cpct ( 'Percent' )
                sum ( totcash 'Total Cash (LE)' (comma12.0) )
                spct ( 'Percent' )
/ttitle = 'Distribution of AID Funds (Total Cash) and Subprojects'
        'by Operational Status and Governorate'.
print tables / device = hplaser / compressed.

```

```

tables format = margins(1,132) zero leader ('.') cwidth (30,14) box
/observation = totcash
/missing = include
/base = qualified
/ftotal = t1 'Total'
/table = sector > (oper + t1) + x by totcash
/statistics = count cpct ( 'Percent' )
                sum ( totcash 'Total Cash (LE)' (comma12.0) )
                spct ( 'Percent' )
/ttitle = 'Distribution of AID Funds (Total Cash) and Subprojects'
        'by Operational Status and Sector'.
print tables / device = hplaser / compressed.

```

```

tables format = margins(1,132) zero leader ('.') cwidth (30,14) box
/observation = totcash
/missing = include
/base = qualified
/ftotal = t1 'Total'
/table = size > (oper + t1) + x by totcash
/statistics = count cpct ( 'Percent' )
                sum ( totcash 'Total Cash (LE)' (comma12.0) )
                spct ( 'Percent' )
/ttitle = 'Distribution of AID Funds (Total Cash) and Subprojects'
        'by Operational Status and Size'.
print tables / device = hplaser / compressed.

```

```

tables format = margins(1,132) zero leader ('.') cwidth (30,14) box
/observation = totcash
/missing = include
/base = qualified
/ftotal = t1 'Total'
/table = sector > size > (oper + t1) + x by totcash
/statistics = count cpct ( 'Percent' )
                sum ( totcash 'Total Cash (LE)' (comma12.0) )
                spct ( 'Percent' )
/ttitle = 'Distribution of AID Funds (Total Cash) and Subprojects'
        'by Operational Status, Sector and Size'.
print tables / device = hplaser / compressed.

```

```
set more=on len=24 eject=off print=off.
```

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```
set printer=on more=off len=58.
get file 'f:\home\george\spss\nonnew\non.sys'.

frequencies var= aidfund
  /format onepage limit(100)
  /histogram increment(100000)
  /statistics all.

frequencies var= totcash
  /format onepage limit(100)
  /histogram increment(100000)
  /statistics all.

frequencies var= capitalf
  /format onepage limit(100)
  /histogram increment(100000)
  /statistics all.

frequencies var= operfnd
  /format onepage limit(100)
  /histogram increment(25000)
  /statistics all.

comp ratcap=capitalf/totcash.
comp ratoper=operfnd/totcash.

comp ratcap1=1.
if (ratcap eq 0) ratcap1=0.
if (ratcap gt 0 and ratcap le .25) ratcap1=1.
if (ratcap gt .25 and ratcap le .50) ratcap1=2.
if (ratcap gt .50 and ratcap le .75) ratcap1=3.
if (ratcap gt .75 and ratcap le 1.00) ratcap1=4.
if (ratcap gt 1.00 and ratcap le 2.00) ratcap1=5.
if (ratcap gt 2.00 and ratcap le 5.00) ratcap1=6.
if (ratcap gt 5.00 and ratcap le 10.00) ratcap1=7.
if (ratcap gt 10.00 and ratcap le 20.00) ratcap1=8.
if (ratcap gt 20.00) ratcap1=9.

comp ratoper1=1.
if (ratoper eq 0) ratoper1=0.
if (ratoper gt 0 and ratoper le .05) ratoper1=1.
if (ratoper gt .05 and ratoper le .10) ratoper1=2.
if (ratoper gt .10 and ratoper le .20) ratoper1=3.
if (ratoper gt .20 and ratoper le .50) ratoper1=4.
if (ratoper gt .50 and ratoper le 1.00) ratoper1=5.
if (ratoper gt 1.00 and ratoper le 2.00) ratoper1=6.
if (ratoper gt 2.00 and ratoper le 5.00) ratoper1=7.
if (ratoper gt 5.00 and ratoper le 10.00) ratoper1=8.
if (ratoper gt 10.00 and ratoper le 20.00) ratoper1=9.
if (ratoper gt 20.00) ratoper1=10.

frequencies var= ratcap1 ratoper1
  /statistics all.

frequencies var= ratcap
```

```
/format onepage limit(100)
/histogram increment(.5)
/statistics all.
```

```
frequencies var= ratoper
/format onepage limit(100)
/histogram increment(.5)
/statistics all.
```

```
set more=on len=24 printer=off.
```

```
set len=58 printer=on more=off.
get fil='f:\home\george\sps\nonnew\non.sys'.

comp totgrand=1.
comp opermax=.1*totcash.
if (capitalf gt totcash) capitalf=totcash.
if (operfnd gt opermax) operfnd=opermax.

tables format = margins(1,132) zero leader ('.') cwidth (20,10) box
  /observation = capitalf operfnd
  /missing include
  /base = qualified
  /ftotal = t1 'Total'
  /table = gov + t1 by capitalf + operfnd
  /statistics = count cpct ( 'X' )
                sum ( capitalf 'LE' (comma10.0) operfnd 'LE' (comma10.0))
                spct ( 'X' )
  /ttitle =
'Distribution of Funds Needed to Complete or Operate the Subproject,'
'by Governorate -- Truncated Estimates'.
print tables /device = hplaser /compressed.

tables format = margins(1,132) zero leader ('.') cwidth (20,10) box
  /observation = capitalf operfnd
  /missing include
  /base = qualified
  /ftotal = t1 'Total'
  /table = sector + t1 by capitalf + operfnd
  /statistics = count cpct ( 'X' )
                sum ( capitalf 'LE' (comma10.0) operfnd 'LE' (comma10.0))
                spct ( 'X' )
  /ttitle =
'Distribution of Funds Needed to Complete or Operate the Subproject,'
'by Sector -- Truncated Estimates'.
print tables /device = hplaser /compressed.

tables format = margins(1,132) zero leader ('.') cwidth (20,10) box
  /observation = capitalf operfnd
  /missing include
  /base = qualified
  /ftotal = t1 'Total'
  /table = size + t1 by capitalf + operfnd
  /statistics = count cpct ( 'X' )
                sum ( capitalf 'LE' (comma10.0) operfnd 'LE' (comma10.0))
                spct ( 'X' )
  /ttitle =
'Distribution of Funds Needed to Complete or Operate the Subproject,'
'by Size -- Truncated Estimates'.
print tables /device = hplaser /compressed.

tables format = margins(1,132) zero leader ('.') cwidth (20,10) box
  /observation = capitalf operfnd
  /missing include
  /base = qualified
  /ftotal = t1 'Total'
```

```

/table = year + t1 by capitalf + operfnd
/statistics = count cpct ( '%' )
              sum ( capitalf 'LE' (comma10.0) operfnd 'LE' (comma10.0))
              spct ( '%' )
/ttitle =
'Distribution of Funds Needed to Complete or Operate the Subproject,'
'by Year -- Truncated Estimates'.
print tables /device = hplaser /compressed.

```

```

tables format = margins(1,132) zero leader ('.') cwidth (20,10) box
/observation = capitalf operfnd
/missing include
/base = qualified
/ftotal = t1 'Total'
/table = reasclas > (reason1 + t1) + totgrand by capitalf + operfnd
/statistics = count cpct ( '%' )
              sum ( capitalf 'LE' (comma10.0) operfnd 'LE' (comma10.0))
              spct ( '%' )
/ttitle =
'Distribution of Funds Needed to Complete or Operate the Subproject,'
'by First Reason -- Truncated Estimates'.
print tables /device = hplaser /compressed.

```

```

tables format = margins(1,132) zero leader ('.') cwidth (20,10) box
/observation = capitalf operfnd
/missing include
/base = qualified
/ftotal = t1 'Total'
/table = reasclas + t1 by capitalf + operfnd
/statistics = count cpct ( '%' )
              sum ( capitalf 'LE' (comma10.0) operfnd 'LE' (comma10.0))
              spct ( '%' )
/ttitle =
'Distribution of Funds Needed to Complete or Operate the Subproject,'
'by Reason Class -- Truncated Estimates'.
print tables /device = hplaser /compressed.

```

```
get fil='f:\homo\george\spss\nonnew\non.sys'.
```

```
comp totgrand=1.
```

```
select if (capitalf le 1500000 and operfnd le 375000).
```

```

tables format = margins(1,132) zero leader ('.') cwidth (20,10) box
/observation = capitalf operfnd
/missing include
/base = qualified
/ftotal = t1 'Total'
/table = gov + t1 by capitalf + operfnd
/statistics = count cpct ( '%' )
              sum ( capitalf 'LE' (comma10.0) operfnd 'LE' (comma10.0))
              spct ( '%' )
/ttitle =
'Distribution of Funds Needed to Complete or Operate the Subproject,'
'by Governorate -- Two Outliers Deleted'.

```

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```
print tables /device = hplaser /compressed.
```

```
tables format = margins(1,132) zero leader ('.') cwidth (20,10) box
/observation = capitalf operfnd
/missing include
/base = qualified
/ftotal = t1 'Total'
/table = sector + t1 by capitalf + operfnd
/statistics = count cpct ( '%' )
                sum ( capitalf 'LE' (comma10.0) operfnd 'LE' (comma10.0)
                    spt ( '%' ) )
/ttitle =
'Distribution of Funds Needed to Complete or Operate the Subproject,'
'by Sector -- Two Outliers Deleted'.
print tables /device = hplaser /compressed.
```

```
tables format = margins(1,132) zero leader ('.') cwidth (20,10) box
/observation = capitalf operfnd
/missing include
/base = qualified
/ftotal = t1 'Total'
/table = size + t1 by capitalf + operfnd
/statistics = count cpct ( '%' )
                sum ( capitalf 'LE' (comma10.0) operfnd 'LE' (comma10.0)
                    spt ( '%' ) )
/ttitle =
'Distribution of Funds Needed to Complete or Operate the Subproject,'
'by Size -- Two Outliers Deleted'.
print tables /device = hplaser /compressed.
```

```
tables format = margins(1,132) zero leader ('.') cwidth (20,10) box
/observation = capitalf operfnd
/missing include
/base = qualified
/ftotal = t1 'Total'
/table = year + t1 by capitalf + operfnd
/statistics = count cpct ( '%' )
                sum ( capitalf 'LE' (comma10.0) operfnd 'LE' (comma10.0)
                    spt ( '%' ) )
/ttitle =
'Distribution of Funds Needed to Complete or Operate the Subproject,'
'by Year -- Two Outliers Deleted'.
print tables /device = hplaser /compressed.
```

```
tables format = margins(1,132) zero leader ('.') cwidth (20,10) box
/observation = capitalf operfnd
/missing include
/base = qualified
/ftotal = t1 'Total'
/table = reascias > (reason1 + t1) + totgrand by capitalf + operfnd
/statistics = count cpct ( '%' )
                sum ( capitalf 'LE' (comma10.0) operfnd 'LE' (comma10.0)
                    spt ( '%' ) )
/ttitle =
'Distribution of Funds Needed to Complete or Operate the Subproject,'
```

```
'by First Reason -- Two Outliers Deleted'.
print tables /device = hplaser /compressed.

tables format = margins(1,132) zero leader ('.') cwidth (20,10) box
  /observation = capitalf operfnd
  /missing include
  /base = qualified
  /ftotal = t1 'Total'
  /table = reascas + t1 by capitalf + operfnd
  /statistics = count cpct ( '%' )
                sum ( capitalf 'LE' (comma10.0) operfnd 'LE' (comma10.0))
                spct ( '%' )
  /ttitle =
'Distribution of Funds Needed to Complete or Operate the Subproject,'
'by Reason Class -- Two Outliers Deleted'.
print tables /device = hplaser /compressed.

set len=24 eject=off printer=off more=on.
```

```
set more=off len=58 print=on.
get ffil='f:\home\george\spss\nonnew\non.sys'.
```

```
comp totgrand = 1.
var lab totgrand 'Grand Total'
  / gov sector totcash size ''.
val lab totgrand 1 ''.
```

```
tables format = margins(1,132) zero leader ('.') cwidth (30,14) box
  /observation = totcash
  /missing = include
  /base = qualified
  /ftotal = t1 'Total'
  /table = sector > (size + t1) + totgrand by totcash
  /statistics = count cpct ( 'Percent' )
                sum ( totcash 'Total Cash (LE)' (comma12.0) )
                spct ( 'Percent' )
  /ttitle = 'Distribution of AID Funds (Total Cash) and Subprojects'
            'by Sector and Size'.
print tables / device = hplaser / compressed.
```

```
tables format = margins(1,132) zero leader ('.') cwidth (30,14) box
  /observation = totcash
  /missing = include
  /base = qualified
  /ftotal = t1 'Total'
  /table = sector > (size + t1) by totcash
  /statistics = count cpct ( 'Percent':sector )
                sum ( totcash 'Total Cash (LE)' (comma12.0) )
                spct ( 'Percent' )
  /ttitle = 'Distribution of AID Funds (Total Cash) and Subprojects'
            'by Sector and Size'.
print tables / device = hplaser / compressed.
```

```
if (aidfund eq 0) aidfund1=0.
if (aidfund gt 0 and aidfund le 25000) aidfund1=1.
if (aidfund gt 25000 and aidfund le 50000) aidfund1=2.
if (aidfund gt 50000 and aidfund le 75000) aidfund1=3.
if (aidfund gt 75000 and aidfund le 100000) aidfund1=4.
if (aidfund gt 100000 and aidfund le 200000) aidfund1=5.
if (aidfund gt 200000 and aidfund le 500000) aidfund1=6.
if (aidfund gt 500000 and aidfund le 1000000) aidfund1=7.
if (aidfund gt 1000000) aidfund1=8.
```

```
if (totcash eq 0) totcash1=0.
if (totcash gt 0 and totcash le 25000) totcash1=1.
if (totcash gt 25000 and totcash le 50000) totcash1=2.
if (totcash gt 50000 and totcash le 75000) totcash1=3.
if (totcash gt 75000 and totcash le 100000) totcash1=4.
if (totcash gt 100000 and totcash le 200000) totcash1=5.
if (totcash gt 200000 and totcash le 500000) totcash1=6.
if (totcash gt 500000 and totcash le 1000000) totcash1=7.
if (totcash gt 1000000) totcash1=8.
```

```
if (capitalf eq 0) capital1=0.
```

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```

if (capitalf gt 0 and capitalf le 25000) capital1=1.
if (capitalf gt 25000 and capitalf le 50000) capital1=2.
if (capitalf gt 50000 and capitalf le 75000) capital1=3.
if (capitalf gt 75000 and capitalf le 100000) capital1=4.
if (capitalf gt 100000 and capitalf le 200000) capital1=5.
if (capitalf gt 200000 and capitalf le 500000) capital1=6.
if (capitalf gt 500000 and capitalf le 1000000) capital1=7.
if (capitalf gt 1000000) capital1=8.

```

```

if (operfnd eq 0) operfnd1=0.
if (operfnd gt 0 and operfnd le 25000) operfnd1=1.
if (operfnd gt 25000 and operfnd le 50000) operfnd1=2.
if (operfnd gt 50000 and operfnd le 75000) operfnd1=3.
if (operfnd gt 75000 and operfnd le 100000) operfnd1=4.
if (operfnd gt 100000 and operfnd le 200000) operfnd1=5.
if (operfnd gt 200000 and operfnd le 500000) operfnd1=6.
if (operfnd gt 500000 and operfnd le 1000000) operfnd1=7.
if (operfnd gt 1000000) operfnd1=8.

```

```

comp ratcap=capitalf/totcash.
comp ratoper=operfnd/totcash.

```

```

comp ratcap1=1.
if (ratcap eq 0) ratcap1=0.
if (ratcap gt 0 and ratcap le .25) ratcap1=1.
if (ratcap gt .25 and ratcap le .50) ratcap1=2.
if (ratcap gt .50 and ratcap le .75) ratcap1=3.
if (ratcap gt .75 and ratcap le 1.00) ratcap1=4.
if (ratcap gt 1.00 and ratcap le 2.00) ratcap1=5.
if (ratcap gt 2.00 and ratcap le 5.00) ratcap1=6.
if (ratcap gt 5.00 and ratcap le 10.00) ratcap1=7.
if (ratcap gt 10.00 and ratcap le 20.00) ratcap1=8.
if (ratcap gt 20.00) ratcap1=9.

```

```

comp ratoper1=1.
if (ratoper eq 0) ratoper1=0.
if (ratoper gt 0 and ratoper le .05) ratoper1=1.
if (ratoper gt .05 and ratoper le .10) ratoper1=2.
if (ratoper gt .10 and ratoper le .20) ratoper1=3.
if (ratoper gt .20 and ratoper le .50) ratoper1=4.
if (ratoper gt .50 and ratoper le 1.00) ratoper1=5.
if (ratoper gt 1.00 and ratoper le 2.00) ratoper1=6.
if (ratoper gt 2.00 and ratoper le 5.00) ratoper1=7.
if (ratoper gt 5.00 and ratoper le 10.00) ratoper1=8.
if (ratoper gt 10.00 and ratoper le 20.00) ratoper1=9.
if (ratoper gt 20.00) ratoper1=10.

```

```

var lab aidfund1 'AID Funds' totcash1 'Total Cash'
    capital1 'Capital Funds Needed' operfnd1 'O&M Funds Needed'
    ratcap1 'RATCAP' ratoper1 'RATOPEQ'.

```

```

val: lab aidfund1 0 'Zero' 1 'LE 1 - 25,000' 2 'LE 25,001 - 50,000'
    3 'LE 50,001 - 75,000' 4 'LE 75,001 - 100,000' 5 'LE 100,001 - 200,000'
    6 'LE 200,001 - 500,000' 7 'LE 500,001 - 1,000,000'
    8 'Over LE 1,000,000'

```

```

/totcash1 0 'Zero' 1 'LE 1 - 25,000' 2 'LE 25,001 - 50,000'
3 'LE 50,001 - 75,000' 4 'LE 75,001 - 100,000' 5 'LE 100,001 - 200,000'
6 'LE 200,001 - 500,000' 7 'LE 500,001 - 1,000,000'
8 'Over LE 1,000,000'
/capital1 0 'Zero' 1 'LE 1 - 25,000' 2 'LE 25,001 - 50,000'
3 'LE 50,001 - 75,000' 4 'LE 75,001 - 100,000' 5 'LE 100,001 - 200,000'
6 'LE 200,001 - 500,000' 7 'LE 500,001 - 1,000,000'
8 'Over LE 1,000,000'
/operfnd1 0 'Zero' 1 'LE 1 - 25,000' 2 'LE 25,001 - 50,000'
3 'LE 50,001 - 75,000' 4 'LE 75,001 - 100,000' 5 'LE 100,001 - 200,000'
6 'LE 200,001 - 500,000' 7 'LE 500,001 - 1,000,000'
8 'Over LE 1,000,000'
/ratcap1 0 'Zero or Undefined' 1 '0+ - .25' 2 '.25+ - .50'
3 '.50+ - .75' 4 '.75+ - 1.00' 5 '1.00+ - 2.00'
6 '2.00+ - 5.00' 7 '5.00+ - 10.00' 8 '10.00+ - 20.00'
9 'Over 20.00'
/ratoper1 0 'Zero or Undefined' 1 '0+ - .05' 2 '.05+ - .10'
3 '.10+ - .20' 4 '.20+ - .50' 5 '.50+ - 1.00'
6 '1.00+ - 2.00' 7 '2.00+ - 5.00' 8 '5.00+ - 10.00'
9 '10.00+ - 20.00' 10 'Over 20.00'.

```

```

tables format = margins(1,132) zero leader ('.') cwidth (30,14) box
/observation = aidfund
/missing = include
/base = qualified
/ftotal = t1 'Total'
/table = aidfund1 + t1 by aidfund
/statistics = count cpct ( 'Percent' )
                sum ( aidfund 'AID Fund (LE)' (comma12.0) )
                spct ( 'Percent' )
/ttitle = 'Distribution of Subprojects by Size of AID Fund'.
print tables / device = hplaser / compressed.

```

```

tables format = margins(1,132) zero leader ('.') cwidth (30,14) box
/observation = totcash
/missing = include
/base = qualified
/ftotal = t1 'Total'
/table = totcash1 + t1 by totcash
/statistics = count cpct ( 'Percent' )
                sum ( totcash 'Total Cash (LE)' (comma12.0) )
                spct ( 'Percent' )
/ttitle = 'Distribution of Subprojects by Size of Total Cash'.
print tables / device = hplaser / compressed.

```

```
select if (capitalf le 1500000 and operfnd le 375000).
```

```

tables format = margins(1,132) zero leader ('.') cwidth (30,14) box
/observation = capitalf
/missing = include
/base = qualified
/ftotal = t1 'Total'
/table = capital1 + t1 by capitalf
/statistics = count cpct ( 'Percent' )
                sum ( capitalf 'Cap. Funds (LE)' (comma12.0) )

```

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```

      spct ( 'Percent' )
    /tttitle = 'Distribution of Subprojects by Capital Funds Needed'
      'to Complete or Operationalize Subproject'.
print tables / device = hplaser / compressed.

```

```

tables format = margins(1,132) zero leader ('.') cwidth (30,14) box
  /observation = operfnd
  /missing = include
  /base = qualified
  /ftotal = t1 'Total'
  /table = operfnd1 + t1 by operfnd
  /statistics = count cpct ( 'Percent' )
                sum ( operfnd 'O&M Funds (LE)' (comma12.0) )
                spct ( 'Percent' )
  /tttitle = 'Distribution of Subprojects by Funds Needed Per Year'
      'to Operate and Maintain Subproject'.
print tables / device = hplaser / compressed.

```

```

tables format = margins(1,132) zero leader ('.') cwidth (30,14) box
  /observation = capitalf
  /missing = include
  /base = qualified
  /ftotal = t1 'Total'
  /table = ratcap1 + t1 by capitalf
  /statistics = count cpct ( 'Percent' )
                sum ( capitalf 'Cap. Funds (LE)' (comma12.0) )
                spct ( 'Percent' )
  /tttitle = 'Distribution of Subprojects and Capital Funds Needed'
      'by Ratio (RATCAP) of Capital Funds Needed to Subproject Total Cash'.
print tables / device = hplaser / compressed.

```

```

tables format = margins(1,132) zero leader ('.') cwidth (30,14) box
  /observation = operfnd
  /missing = include
  /base = qualified
  /ftotal = t1 'Total'
  /table = ratoper1 + t1 by operfnd
  /statistics = count cpct ( 'Percent' )
                sum ( operfnd 'O&M Funds (LE)' (comma12.0) )
                spct ( 'Percent' )
  /tttitle = 'Distribution of Subprojects and O&M Funds Needed Per Year'
      'by Ratio (RATOPER) of O&M Funds Needed Per Year to Subproject Total Cash'.
print tables / device = hplaser / compressed.

```

```

set more-on len=24 eject-off print-off.

```

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