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This document is intended to assist users of computer program HEC-5 who are engaged in modeling surface water systems for water supply. Using a single reservoir operation for illustration, the document describes the input data needed to utilize a variety of analysis capabilities available in HEC-5. Input data for multiple reservoir systems are similar to those for single reservoirs but include certain data which specify the system linkages and operation. A description of this information is also included. Two appendices are part of the document. One describes HEC-5 automatic reservoir sizing and the other provides program output for the examples used in the text.

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FOREWORD

This document is intended to assist users of computer program HEC-5 who are engaged in modeling surface water systems for water supply. Using a single reservoir operation for illustration, the document describes the input data needed to utilize a variety of analysis capabilities available in HEC-5. Input data for multiple reservoir systems are similar to those for single reservoirs but include certain data which specify the system linkages and operation. A description of this information is also included. Two Appendices are part of the document. The first describes the method of automatically determining conservation storage. It was felt that such an explanation would be useful since the capability exists in HEC-5 to derive a number of important reservoir parameters and a better understanding of the methodology would be helpful. A second Appendix contains summary output for the runs developed to illustrate input preparation.

All data in this document were developed for and output from the March 1985 version of HEC-5 on the Hydrologic Engineering Center's (HEC) Harris 500. Older versions of the computer program may require somewhat different input or give somewhat different output.

Preparation of the input data, analysis of output, and research into some of the methodology used by HEC-5 was performed by Chau-ling Tyan, graduate student at the University of California, Davis. Subsequent modifications and invaluable assistance was provided by Richard Hayes, Marilyn Hurst and Teresa Bowen of the HEC staff. Bill S. Eichert, author of HEC-5 and Director of the Hydrologic Engineering Center, gave generously of his time in developing the routines, debugging tests, and in review and editing.

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WATER SUPPLY SIMULATION USING HEC-5

Introduction

It is the purpose of this document to illustrate the use of computer program HEC-5, Simulation of Flood Control and Conservation Systems, for simulating the operation of surface water reservoirs for water supply. HEC-5 is a widely used, comprehensive, computer model which has been used for a wide range of applications in flood control and hydroelectric power. Modifications to the program over the past few years have extended and improved its capability for water supply purposes. This document describes and illustrates this capability.

The principal components of a surface water reservoir operation which are necessary for simulations include: streamflow records, including local inflow between gaged points; physical and operational characteristics of system storage facilities, and in-stream, diversion and operation requirements at control points within the system. These components are common to all surface water simulations regardless of purpose. What differs with each purpose is the nature of the streamflow, operational criteria, and demand. For water supply, low-flow periods are of special concern because it is during these periods that the possibility of not meeting water supply needs is greatest. Low-flows normally have the characteristic that they are relatively constant over a week or month period and therefore monthly streamflows are commonly used in simulation. Also, low-flows are commonly within channel and consequently routing criteria and water surface elevations, which are especially significant in flood control simulation, are of less importance in water supply. Yet, low-flow, because it is low, can be significantly affected by local inflow, effluent discharge from waste-water treatment plants, seepage to or from a river, evaporation and other manmade and natural phenomena. Operating criteria for water supply is principally concerned with meeting demands over prolonged low-flow periods (droughts). Determining which is the critical low-flow period is itself part of the task of water supply simulation. For most streamflow records a number of possible critical periods exist. In addition, criteria needs to be developed to distinguish between what is "desired" and what is "required". What is desired can be supplied when there is ample conservation storage in the reservoir to meet demands. Desired flows will be released when the reservoir pool elevation is above the buffer level. Required flows have a higher priority than desired flows and are attempted to be met when the reservoir storage level is between the buffer and inactive levels.

This document is designed to illustrate how HEC-5 input data are to be prepared to model a variety of features often desired for water supply simulation. For each feature a number of options exist. A simulation, for example, may be run for a period of record, partial record, or critical period. Desired and required flow requirements may be specified as constant for the simulation period, vary monthly or vary by period. The same three options exist for specifying diversions. In addition, diversion may be a function of reservoir storage, or inflow. Optimization capability exists for determining minimum conservation storage requirements given flow and diversion needs. Conversely, the dependable desired flow, required flow or diversion at a reservoir may be determined given a specified conservation storage. The capability also exists in the March 1985 version of the program to optimize the yield at a downwstream control point.

Most of the features and options described in this document are illustrated with single reservoir examples. They also apply to multiple-reservoir systems. Multiple-reservoirs also have operating features which are unique: parallel and tandem reservoir operations, for example. These features are also described and illustrated. Lastly, example output and the optimization methodology of the program are described in the Appendices.

Other capabilities at HEC which aid the user in creating input files are programs INFIVE and MATHPAK. INFIVE is an interactive program designed to generate a data file for input into the HEC-5 program. Through a series of questions and answers, a list of cards necessary to simulate the system is created, and optionally, variable names can be requested on a comment card for each card field.

MATHPAK allows the user to manipulate data stored in an HECDSS data file. The program can be useful in water supply simulations to compute natural flows, instream flows, diversions, etc., to be used as input into HEC-5.

A recent option to HEC-5 (but not illustrated in this document) is the capability to provide different priority releases by allowing reservoirs to be drawn down to a level specified on the CP card, field 7. This capability is in the March 1985 program version. More information on this option can be found in the March 1985 Exhibit 8 (Input Description).

Basic Reservoir System

Input data. Figure 1 shows a schematic diagram of a single reservoir system. One downstream control point is specified at Control Point (CP) 213. Water supply requirements at CP 213 are met from conservation storage releases at the reservoir. Figure 2 shows the storage levels and volumes for the reservoir. Conservation storage is 71,200 acre-feet with 1700 acre-feet of it in the buffer zone. Releases to meet downstream water supply requirements are made from conservation storage. Tables 1 through 3 show data on the reservoir and downstream flow requirements. The elevation-area-storage-outflow data are necessary to define reservoir storage levels, to compute the volume evaporated, and to determine outflows under flood conditions. Net evaporation (Table 2) multiplied times the reservoir surface area is the volume lost from storage. Negative evaporation values indicate rainfall in excess of evaporation is occurring. The monthly desired flows, required flows and diversions in Table 3 are the average monthly water supply requirements at control point 213.

Monthly streamflow into the reservoir is shown in Table 4. All values are monthly averages. They cover the period October 1927 to September 1937, a low-flow period in the streamflow record. The full record is 1927-1977.

The foregoing data constitute the basic reservoir system to be simulated. Table 5 shows these data as input for the HEC-5 simulation model. In addition various job control data are also specified. The reader is referred to the HEC-5 Users Manual, Exhibit 8, Input Description (March 1985), for instructions on the preparation of these data.

Simulation Period Options

It is often desired to select different periods of record for simulation or output. While the entire available record is commonly input, it may be that only a portion of that record is desired for computation or output. Two options exist for specifying shorter records: partial record and critical period. These, together with the option of using the entire record are described below.

Period of record. The basic reservoir system shown in Table 5 (Run 1) illustrates the use of a low-flow period for simulation. Partial HEC-5 output from Run 1 corresponding to Table 5 input is shown in Appendix B along with output from other examples (Runs 1-24). Data shown on the IN cards in Table 5 are inflow data to the reservoir for October 1927 to September 1937, a total of 120 monthly periods. The number of periods is specified in field 2 of the BF Card.

Partial record. The simulation period can be truncated and only part of the record used in the computations. This option is specified on the BF Card, field 6 (Table 6, Run 2). In this example the simulation period is truncated after 60 periods and only the first 60 monthly periods of inflow are used in the computations. See also description below of the use of negative value in field 5, J3 Card. This option should always be used to reduce computation time and output volume when making the first few runs for a new data set. When the operations and output are correct for the initial set of input (normally 12-30 periods), then the full period of simulation should be initiated by removing the ending period from field 6 of the BF card.

Critical period. Three options exist for selecting the period of low-flow referred to as the "critical period". The critical period can be selected from within the flow record (IN Cards) based upon the option specified. The three options are specified in field 5, J3 Card.

One option is to directly specify the critical period or any partial period desired. In this case the simulation output will be for the periods specified. Table 7 (Run 3) illustrates the option. A value, -10.060, is specified (J3 Card, field 5). This indicates the period to be simulated is from period 10 through 60 which corresponds to July 1928 through September 1932.

A second option for specifying critical period is to specify a specific reservoir drawdown duration. HEC-5 automatically examines the period of record and finds the beginning and ending periods for the duration specified corresponding to the minimum flow volume. To help insure the critical period is within this duration for the simulation run, five periods are added to the end and the beginning is set back to the first month of the simulation year (see J1 card, field 2). If the minimum flow duration is eight months (period 9 to 16) the ending period is extended five periods to period 21. If period 9 represents June 1928 and the month of the first monthly value of demand data (J1, field 2) is January then the beginning period is extended back to January 1928. This procedure of extension helps to insure that the low-flow period is properly bracketed. To specify this option the duration desired is entered in field 5, J3 Card.

A third critical period option is to use as the duration a preselected multiplier times the ratio of conservation storage to mean annual flow. The multiplier automatically used by the program is 70. It has been found from looking at numerous projects throughout the United States, that a reasonable estimate of critical period duration is the numerical value of 70 times the specified ratio. If the ratio of conservation storage to mean annual flow were .2 then the duration for the simulation run would be 14 months (assuming a monthly simulation). The beginning and ending periods of this duration would be those which correspond to the minimum flow volume for the 14 months duration which is determined in HEC-5 by examining the whole period of record. This option may be specified by using a 1 or 2 in field 5, J3 Card.

Required and Desired Flow Options

Instream flow demands may be specified at control points within the system being simulated. They may represent a variety of low-flow requirements: minimum flows for fishery or wildlife, navigation, stream recreation, minimum water quality flows, and various other water supply conditions. Two types of low-flow may be specified: minimum desired and minimum required. Minimum desired flows are those which are the target when reservoir storage is above the top of the buffer level. When streamflow is low and reservoir storage is low (below the top of the buffer) the minimum required flow allows the user to cut-back and reduce requirements allowing minimum needs to be met until supplies are replenished.

Four options exist for specifying required or desired flow: constant, monthly, period by period or seasonally. A constant value means that the required or desired flow is the same for each time period in the simulation. A monthly specification allows required or desired flows to vary from month to month (but not year to year). A period by period specification allows the user to vary the flow by period throughout the period or record. For example, a monthly desired or required flow can be varied each month and each year for the entire simulation period. In the seasonal option, up to 18 seasons (in number of days from January 1) can be defined on the CS card. Minimum desired or required flows (on QM cards) can vary throughout the year and the release is based on the reservoir level for the specified season.

Constant required and desired flow. The basic reservoir system (Table 5) illustrates the specification of constant desired and required flows. These values, 400 cfs and 100 cfs respectively, are shown on the CP Card for control point 213.

Monthly required and desired flow. To change desired or required flows from a constant to a monthly varying value QM Cards are used. An example is shown in Table 8 (Run 4) for desired flow. In this example desired flow varies by month and required flow is a constant 100 cfs.

When required flow varies by month and desired flow is constant, or when both required and desired flow vary by month it is necessary to put in a fictitious control point because only one QM array is available for a given

control point. Whenever desired flow is specified either constant (CP Card, field 3) or monthly varying (QM Cards), this array is used. Therefore, when specifying a minimum required flow varying monthly it is necessary to create a fictitious control point to use the QM array. Table 9 (Run 5) illustrates the input for specifying monthly varying required flow with constant desired flow. The monthly required flows are entered on the QM Cards for the control point 213. A negative value (-1) is entered in field 4 of the CP Card to indicate that the QM Cards will be used for required flow instead of desired flow. The constant desired flow is shown in field 3 of the CP Card for dummy location 212. Table 10 (Run 6) illustrates the input data where both required and desired flows vary monthly.

Period varying required and desired flow. Tables 11, 12, and 13 illustrate the manner of specifying period by period desired and required flows. Each period is assigned a minimum flow value on an MR Card. In Table 11 (Run 7) the desired flow varies by period and the required flow is a constant 100 cfs. When required flows vary by period and desired flows are also used then a fictitious (dummy) control point must be specified because there is only one MR array and it is normally used by the desired flow. The use of dummy control points is illustrated in Tables 12 (Run 8) and 13 (Run 9). As in the monthly varying illustration (Tables 9 and 10) a -1 in field 4 of the CP Card is required to indicate period varying required flows.

Seasonally varying required and desired flows. In addition to desired or required flows varying monthly, the user can also specify a seasonal rule curve to vary required or desired flows. Figure 4, Table 15 (Run 11) illustrate this option. This example, using additional RL cards and a CS card, also shows a conservation pool varying by season, though this is not required to vary the releases seasonally. The CS card for location 213 defines the seasons for each year (for the CG and QM cards) and the CG card specifies the elevations corresponding to the defined seasons. Each minimum desired flow given on the QM card corresponds to one seasonal guide curve on the CG card. To vary required flows instead of desired flows, use a -1 in field 4 of the CP card as previously illustrated for monthly varying flows (Tables 9 and 10).

Seasonally varying conservation and buffer pools.

Table 14 (Run 10) and Figure 3 illustrate the option of varying storage allocation levels which change during the year. Additional RL cards are required for each level; the first field of the additional RL card indicates the reservoir level number; field 2 is the control point number, the varying storages are given on fields 5-10. A second additional RL card with storages in fields 5-10 can be used if more than six storages are required. Seasons are specified on the CS card if the seasons are not monthly: field one indicates the number of seasons, (maximum of 11), Fields 2-19 are the cumulative number of days from the beginning of the calendar year for each season which correspond to the storages on the additional RL cards. This example illustrates a common method of storage allocation in the west where less flood control storage is required in the dry summer months, thereby increasing the top of conservation pool (level 3, J1.4) and top of buffer pools (level 2, J1.6).

Diversion Options

Diversions allow water to be withdrawn from the main surface system to meet water supply needs elsewhere. There are three characteristics of a diversion which need to be specified: location, magnitude, and timing of source and return flow. A number of options exist for specifying each and these will be described and illustrated in the subsequent sections.

Diversions may be made at reservoirs and at downstream control points. Only one diversion can be made from a given location, but any number of diversions can return to a given location. Return flows must be downstream of the point of withdrawal (i.e., cards later in sequence) unless a special pumping option is specified (DR.7=-4). Both diversion and return flow locations must be designated as control points. Seepage from a river can be simulated by specifying a series of diversions at discrete control points along the river. The amount diverted at each point would equal the seepage rate for the reach of river represented by the point.

The magnitude of water diverted and returned may be expressed in several ways. It may be a direct quantity unrelated to anything except the water needs supplied by the diversion. Alternately, diversion may be a function of the flow at the control point; a function of the reservoir storage where water is diverted at a reservoir; or a function of off-peak energy in pumped storage projects. These options provide flexibility in relating diversions to in-stream and in-reservoir conditions.

Return flow is commonly expressed as a percentage of the diversion. This is usually adequate since what is returned is often a function of what is diverted. Thus, a 20% return could apply to each time period whether the diversion is constant, varies monthly, or by period. An additional characteristic of timing is the time lag or routing desired for return flow. When diverted flow travels out of the river and eventually returns, it may travel at a different rate than the river flow traveling from the diversion point to the return flow point. Consequently, routing criteria for the diverted flow may be specified on the DR card (only linear routing criteria can be used).

Constant diversion. Table 16 (Run 12) illustrates the use of the DR Card (field 8) to specify a constant diversion of 150 cfs each time period. A return flow of 20% is also specified (field 6). The flow is diverted at control point 4 and returned at control point 213 (fields 1 and 2). No routing is used either between the two control points or for the diversion (field 3, RT Card and DR Card).

Monthly varying diversion. A diversion varying by month may be specified by using the QD Card. This is illustrated in Table 17 (Run 13). Twelve monthly flow values are specified on the QD Cards beginning with January (Field 2, J1 Card). As shown in Table 17, field 7 of the DR Card is used to indicate that monthly diversions will be specified on QD cards for control point 213.

Period varying diversion. Period by period diversions are specified by using a -5 in field 7, DR Card. In this option the QD Cards, with period varying diversions, are inserted after the BF Card. Table 18 (Run 14) shows the input data for this option.

Diversion as a function of reservoir storage. Diversions are sometimes a function of reservoir storage. Such diversions must be at a reservoir and return flow must be downstream. Field 7 of the DR Card is used to indicate that diversions will be a function of storage. The value -2 is entered in field 7. The diversion rates are specified on the RD Card for corresponding storages on the RS Card. Table 19 (Run 15) illustrates this capability.

Diversion of flood waters at a reservoir. A variation of the reservoir storage option is to divert excess flood waters above the top of conservation pool. This may be specified in field 1 of the RD Card with a -1. This option can be useful in considering artificial recharge using flood waters. Using this option the quantity which may be diverted can be limited by the capacity of the diversion outlet. Also, in making the decision on how much to divert, the reservoir first meets the desired and required flow requirements at the reservoir (CP4). Example input are shown in Table 20 (Run 16).

Diversion as a function of inflow. Where it is desired to specify diversions at a control point as a function of inflow, a table of inflow versus diversion needs to be specified. In HEC-5 the diversion as a function of inflow option is indicated by a -1 in field 7, DR Card and the table of inflows and diversions are specified on the QS and QD Cards respectively. Table 21 (Run 17) illustrates the data required . Inflows at the control point are compared with data on the QS Card and corresponding diversion flows are determined from data on the QD Cards.

Diversion options also exist for pumping-diversion and an off-peak energy and pump-back storage diversion.

Optimization Options

In water supply planning it is often desired to know the minimum conservation storage required to meet reservoir or downstream flow and diversion requirements. The solution is an iterative process of assuming different storage volumes until the minimum storage is found that will meet requirements.The inverse is also common. Given a fixed storage volume, what is the maximum desired flow, required flow, or diversion which the reservoir will yield? In this case two of the three requirements are held fixed while the third is varied until the maximum is reached for a given reservoir storage. The maximum desired flow, for example, can be determined while holding the required flow and diversion constant.

The foregoing task of finding minimum conservation storage or maximum yield (desired flow, required flow or diversion) is handled in HEC-5 through its optimization capability. In addition to water supply yield the program can optimize monthly firm energy and monthly plant factors for hydropower. The time interval of inflow for optimizing must be monthly. Also, only single reservoirs or up to four independent reservoirs in a system can be optimized. Each reservoir must be optimized for its own independent set of flow requirements or conservation storage. At this time tandem reservoirs cannot be derived automatically in the same run. Optimization of an upstream reservoir for yield at a downstream control point can be accomplished in the March 1985 version of the program.

Optimization period options. The same options for selection of the simulation period discussed under "Simulation Period Options" are available using the optimization capability. These are period-of-record, partial record, and critical period. Period of record and partial record options are specified using the BF Card discussed previously. For the critical period, the options are specified on the J7 Card, Field 8 instead of on the J3 Card for non-optimizing runs (See Table 22, Run 18). These options include: specifying the time periods desired for the simulation run; specifying a monthly reservoir drawdown duration; and specifying a duration equal to 70 times the ratio of conservation storage to mean annual flow. These are referred to as the "critical period" options.

In addition to the options described in the preceding paragraph, there also exists the capability to simulate using several combinations of critical period and period of records simulations. For this option, a code is input in field 9, J7 Card (See Table 22). Five such options exist and are summarized below, however, it is strongly recommended that code 6 be used.

OPTIMIZATION OPTIONS FOR COMBINATIONS OF PERIODS

Indicator (Field 9, J7 Card)	Simulation Periods
0, 1	Optimize for period of record (flow data on IN Cards)
2	Optimize for critical period and period of record
3	Optimize for critical period and check with period of record (1 cycle)
4	Optimize for critical period, check with period of record; adjust critical period; optimize for adjusted critical period and check with period-of-record (2 cycles).
6	Make three cycles of adjusting, optimizing and checking as opposed to one and two cycles, as described above. (Recommended option)

These options allow for both critical period and period of record simulation. A check is made to see if the optimal storage (or flow, or diversion) computed for the assumed critical period can be maintained for the period of record. If the assumed critical period is in fact, the true critical period then the firm yield can be maintained for the period-of-record. If the drawdown using the period-of-record is greater than the drawdown using the assumed critical period, and not within the specified allowable error, then a new critical period is selected and the storage optimized. This capability also applies to optimizing desired flow, required flow and diversion.

Optimization of reservoir conservation storage. Table 22 (Run 18) illustrates the use of the J7 Card to specify the optimization routine for conservation storage. In field 1 a value of 4.0 specifies the location where optimization is to take place (control point 4), and that conservation storage above the top of buffer pool will be optimized (specified by .0.). Field 8 (value of 2) specifies the optimization will start with an initial critical duration equal to 70 times the ratio of conservation storage to mean annual flow. An allowable error ratio (positive and negative) of .05 is specified in field 10. This is the ratio of the storage error (difference between the target drawdown storage and the minimum storage in the simulation) to the total conservation storage above the target drawdown storage.

When reservoir storage is being optimized, the desired and required flow requirements may be specified for either the reservoir or a downstream control point. When optimizing for any yield (required or desired flow or diversions), the water yield being optimized is at the reservoir unless the downstream control point (J7, field 5) is specified.

The methodology used to optimize conservation storage is described and illustrated in Appendix A.

Optimization of desired flow. This optimization option determines the maximum desired flow available during the critical period or period of record given a specified volume of conservation storage. Other system requirements such as diversions and required flow are met as specified. Note however, that required flow is not competitive with desired flow because it is not drawn upon until the storage reaches the top of buffer at which time desired flow is no longer met.

Table 23 (Run 19) illustrates the input and output for this option. In field 1 of the J7 card a 4.2 is specified which indicated the desired flow (.2) at control point 4 (4.) will be optimized. The other input on the J7 Card are the same as used for the storage optimization. The monthly varying desired flow to be optimized is specified using the QM Card. Constant and period varying desired flow may also be optimized.

Table 24 (Run 20) illustrates input data necessary to optimize desired flow when it is varied by period. Data on the J7 Card remain unchanged from that described in the previous paragraph. The desired flows are required as input on the MR Cards in order to provide an initial estimate of the optimal flows and as a pattern for determining the optimal ratios of the MR Card values.

Optimization of required flow. This option determines the maximum required flow for the critical period or period of record that can be maintained through the period of historical flow data given a specified volume of conservation storage. Other system requirements such as diversions and desired flows are met as specified.

Table 25 illustrates the input required on the J7 Card to specify this option (Run 21). The 4.3 in field 1 specifies optimization of required flow at control point 4. The other input on the J7 Card are the same as for the storage optimization. An initial estimate of 200 cfs for the required flow (constant for each period) is input on the CP Card, field 4. Monthly and period varying required flow may also be optimized.

Optimization of monthly diversion. Optimization of diversion determines the maximum diversion flow for the critical period or period of record. A given volume of conservation storage, with other system requirements being met, is specified. Both desired and required flow requirements may be competitive with diversions since the diversion requirement applies to storage above and below the buffer level.

Table 26 (Run 22) shows the input required on the J7 Card. A 4.4 is used in field 1 to specify optimization of diversion (.4) at control point 4 (4.). The other input data on the J7 Card are the same as for the preceding optimization runs. An initial estimate of the monthly varying diversion is input on the QD Card. Subsequent estimates for the optimal values will be proportional to these initial estimates.

Optimization of all reservoir yields. By specifying a 4.9 in field 1 (Table 27, Run 23) of the J7 Card, all yields i.e., desired flow, required flow and diversion, are optimized for a given storage at the reservoir. Each of the yields is multiplied iteratively by the same constant until the drawdown storage is within the target error specified. All yields must be at the reservoir.

Optimization at a downstream control point. In addition to optimization of reservoir yields at the reservoir, yield can also be optimized at a downstream control point. This option is available in the March 1985 program version and is accomplished by inputting the downstream control point number to be optimized in field 5 of the J7 card.

Multiple Reservoir System Simulation

Basic system specifications. A multiple reservoir system is made up of individual reservoirs which operate either independently or in conjunction with the other reservoirs. The requirements for computer simulation are the same as for single reservoirs with the added requirement of linking the individual reservoirs together as required for system operations. The descriptions and examples for single reservoirs presented earlier in this document apply also to multiple reservoir systems. Linkages between reservoirs are additional specifications which are added to the single reservoir cards. To illustrate the input data necessary for a multiple reservoir system consider the three reservoir configuration shown in Figure 5. Storage levels and volumes for each reservoir are shown in Figure 6. To simulate the operation of this system using HEC-5 the input data listed in Table 28 (Run 24) was prepared. Note that all flows and volumes are in metric units (Field 1, J1 Card).

Parallel reservoir operation. Reservoirs are in parallel when they are on different streams above a common control point. All parallel reservoirs that are operated for a common downstream control point are operated as a system. In Figure 5 reservoir 2 is in parallel with reservoir 3. Reservoir 1 operates independently of reservoir 3; reservoir 2 operates with reservoir 3 to meet the requirements of control point 4. The operating criteria used by HEC-5 for parallel reservoirs can be illustrated by the system in Figure 5. Reservoir 3 will meet its own flow requirements and make releases for control point 4. Reservoir 2 will do the same. In operating jointly reservoirs 2 and 3 will make releases for control point 4 such that their levels are nearly the same at the end of each period. Releases are made from reservoirs beginning with the highest level. Thus, in Figure 6 releases are not made from reservoirs 1 and 3 until reservoir 2 reaches level 4, since reservoir 2 has storage in zone 4-5 and the other reservoirs do not.

Tandem reservoir operation. Reservoirs are in tandem when two or more reservoirs are on the same stream. They may operate independently of one another or as a reservoir system. In Figure 5 reservoirs 1 and 2 are in tandem with each other, reservoir 1 operates for downstream reservoir 2 and reservoir 2 operates for control point 4. Using HEC-5, two options are available for balancing the storage levels between reservoirs 1 and 2 (J2 Card, field 4). The first uses the storage index level for the downstream reservoir, the second the equivalent index level for the two tandem reservoirs. The equivalent index level is determined by weighting the level of each reservoir in a subsystem by the storage in the reservoir to determine a storage-weighted level for the subsystem. For the current time period the upstream tandem reservoir (reservoir 1) attempts to release water to draw its level to the previous period's index level (or equivalent level under option 2) for reservoir 2. With releases from reservoir 1 known for the current period, releases from reservoir 2 can be determined. The objective is to meet downstream flow requirements and keep the tandem reservoirs in balance. Depending upon the storage and flow requirements for the reservoirs this balancing may occur immediately or may take several time periods. The HEC-5 users manual presents an equivalent reservoir example.

Simulation of complicated water supply systems. When simulation results for complicated water supply models indicate shortages in meeting minimum flow demands while water supply storage exists in the system, a recycle option in HEC-5 (J2 card, field 4, include 32 in sum), can be used to provide better results. This code causes the program to recycle through the solution process twice (instead of once). It is suggested that this option be applied only when water supply simulation results are unsatisfactory, producing reservoir release error messages. Output error messages must be requested by including 4 (output error check) in the sum of values on the J3 card, field 1. For analyses it is helpful to request user-defined output tables with J8 cards which include a listing of shortages (codes .06, .08, and .31), for each control point with minimum flow or diversion requirements. The execution time for HEC5A may be increased by 100% by using this recycle option; it is suggested that it be used only after a complete review of the output indiates shortages are occurring. This option is available in the March 1985 version of the program and documented in the January 1985, Exhibit 8 of the HEC-5 Users Manual.

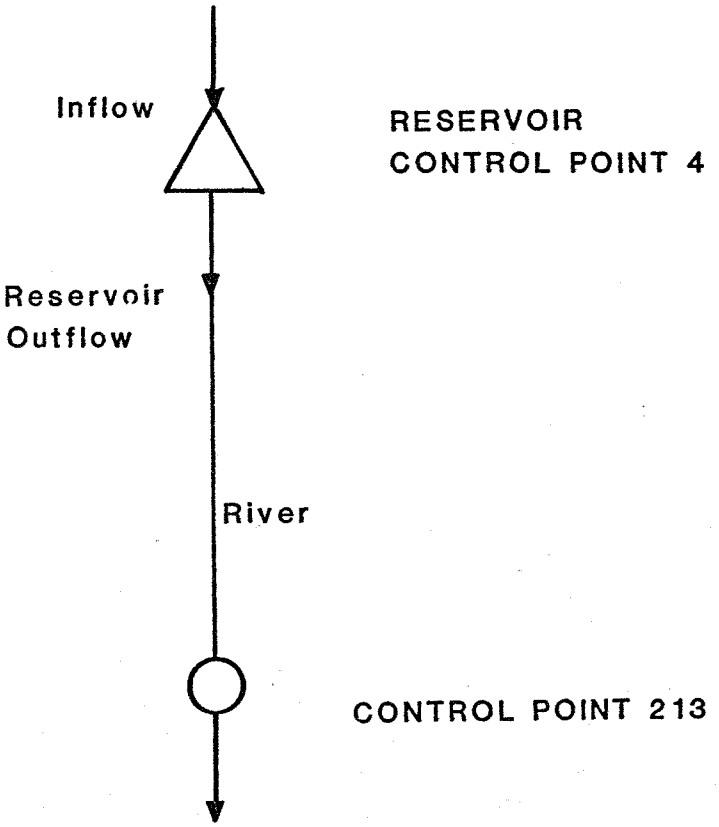


Figure 1. SINGLE RESERVOIR WATER SUPPLY SYSTEM

LEVELS		STORAGE VOLUME (ac-ft)
5	TOP OF DAM	240,000
4	TOP FLOOD CONTROL	180,200
3	TOP CONSERVATION	71,500
2	TOP BUFFER	2,000
1	TOP INACTIVE	300

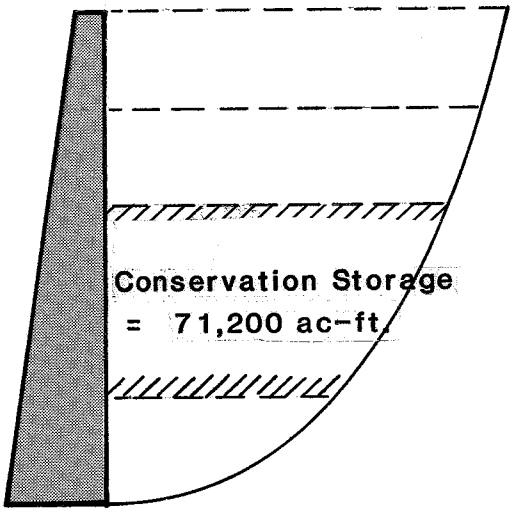


Figure 2. RESERVOIR STORAGE LEVELS AND VOLUMES

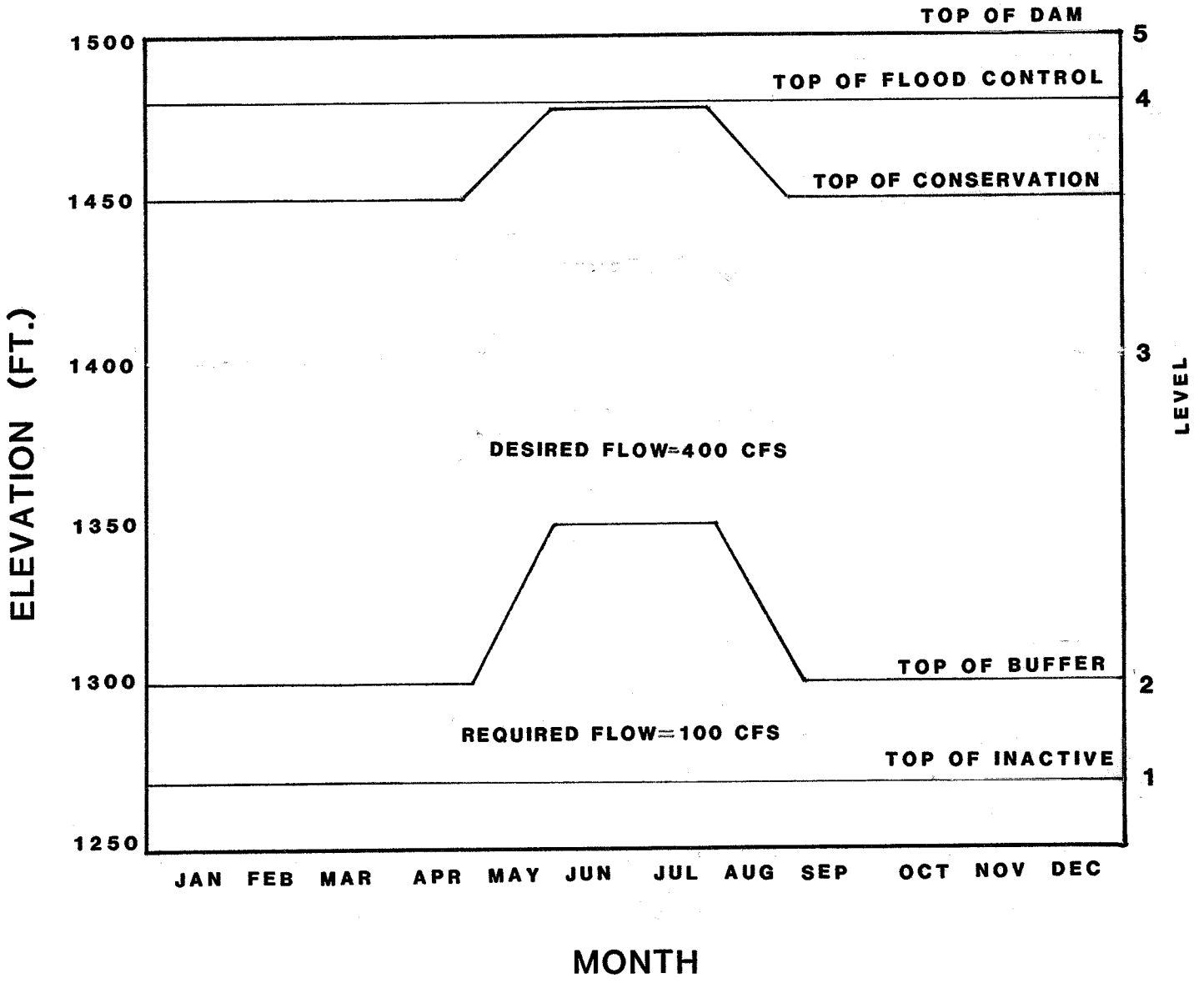


Figure 3. SEASONALLY VARYING CONSERVATION AND BUFFER POOLS

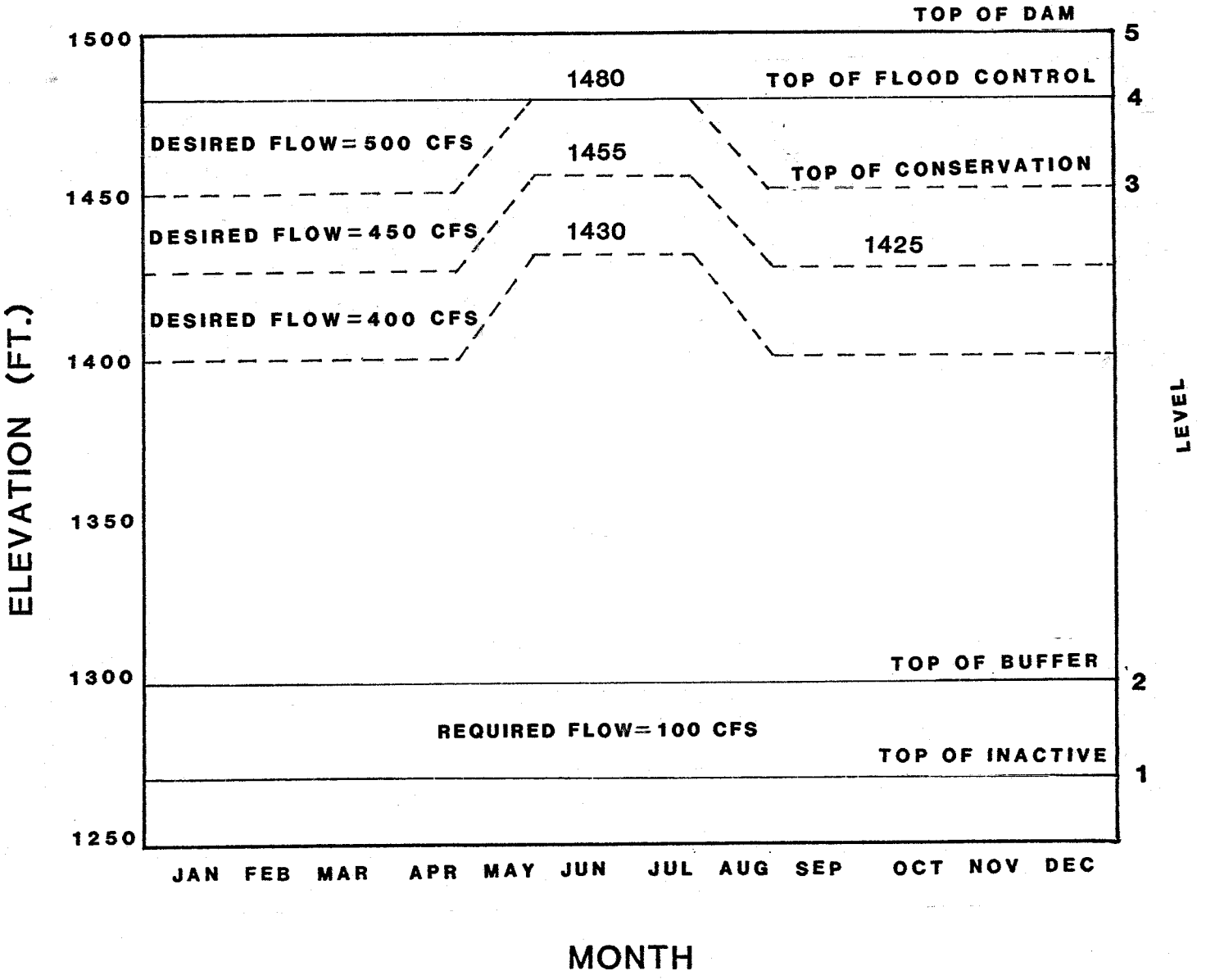


Figure 4. SEASONALLY VARYING DESIRED FLOW

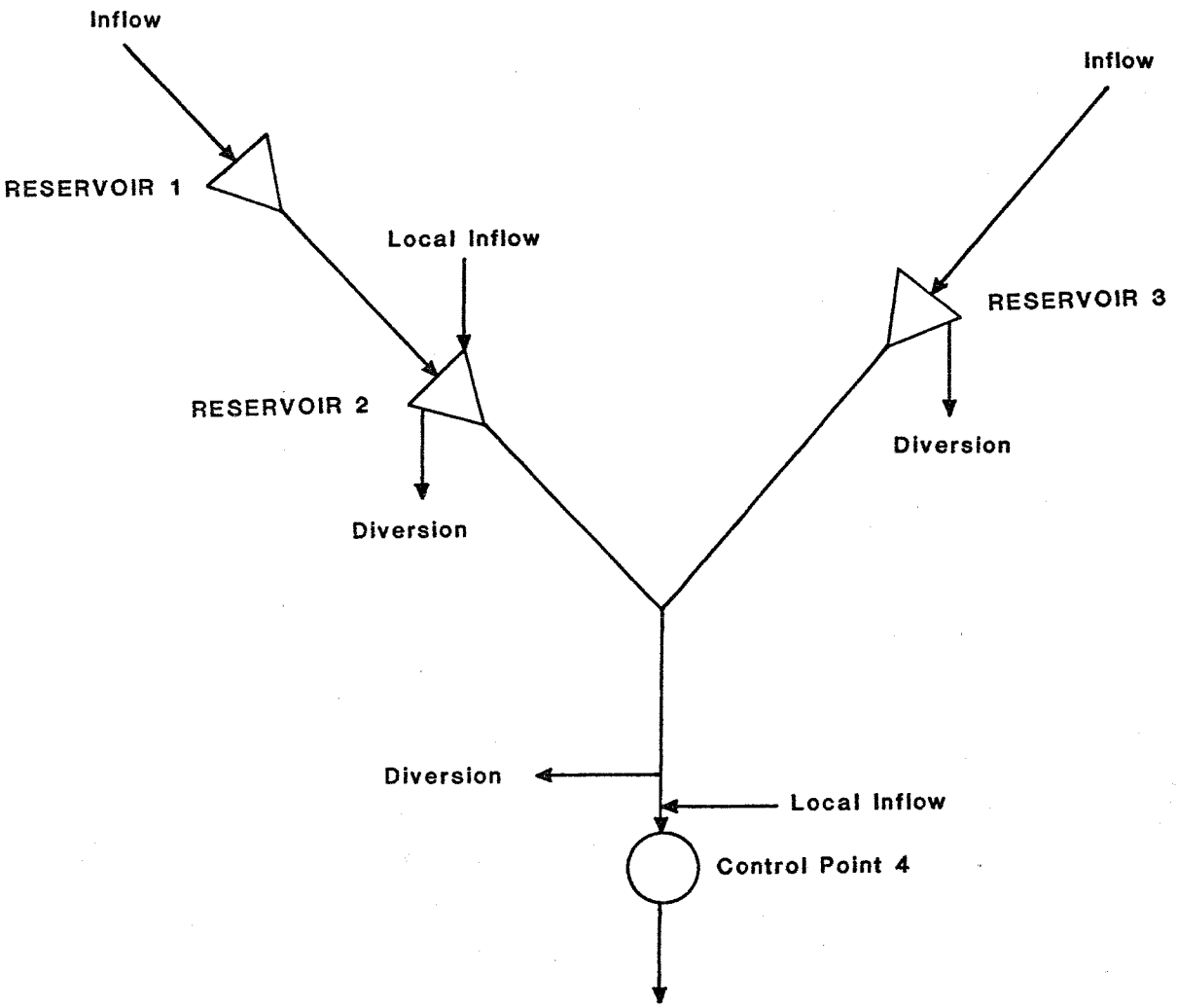
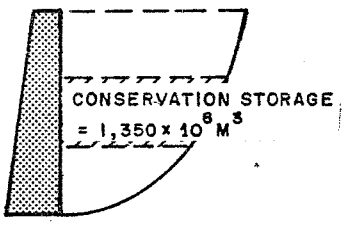


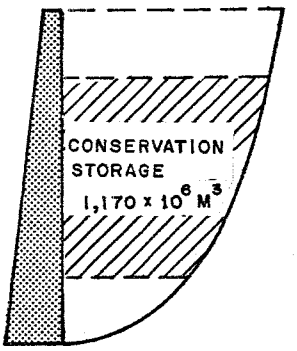
Figure 5. THREE RESERVOIR WATER SUPPLY SYSTEM

LEVELS		VOLUME ($10^6 M^3$)
6	Top Flood Control	4,210
5, 4	Top Conservation	3,330
3, 2, 1	Top Buffer	1,980
	(= Top Inactive)	



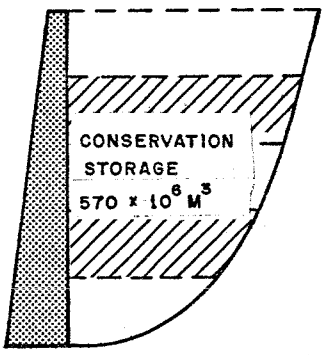
RESERVOIR 1

6	Top Flood Control	6,670
5	Top Conservation	3,760
4		3,320
3, 2	Top Buffer	2,880
1	Top Inactive	2,590



RESERVOIR 2

6	Top Flood Control	2,440
5, 4	Top Conservation	1,540
3		1,325
2	Top Buffer	1,110
1	Top Inactive	970



RESERVOIR 3

Figure 6 THREE RESERVOIR STORAGE LEVELS AND VOLUMES

TABLE 1

Reservoir Elevation, Area, Storage, Outflow Data

Elevation (ft.)	Area (Acre)	Reservoir Storage (acre-feet)	Outflow (cfs)
1250.	0	0	0
1265.	20.	150.	100.
1280.	40.	580.	100.
1300.	80.	2000.	9000.
1325.	185.	5380.	10500.
1350.	350.	12020.	12000.
1370.	587.	21410.	13000.
1390.	800.	35560.	14000.
1410.	1040.	54300.	15000.
1430.	1390.	78340.	16000.
1450.	1830.	110,690.	17000.
1454.	1922.	118,140.	30000.
1458.	2014.	126,000.	54000.
1462.	2106.	134,200.	86000.
1466.	2198.	142,800.	128000.
1469.	2267.	149,700.	160000.
1472.	2336.	156,500.	198000.
1481.	2500.	180,200.	218000.

TABLE 2

Monthly Reservoir Net Evaporation (inches)

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
-1.59	-1.54	-2.03	-2.39	-0.52	-0.36	-0.54	-.40	-0.02	0.52	-2.63	-2.38

TABLE 3

Monthly Desired Flow, Required Flow and Diversion (cfs)
Control Point 213

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Desired Flow	420	440	480	500	520	540	550	530	490	440	410	400
Required Flow	100	120	130	140	150	150	140	130	120	110	100	100
Diversion	150	140	120	100	100	100	100	100	100	100	140	150

TABLE 4

MONTHLY RESERVOIR INFLOW (cfs)
(Period 1 = Oct 1927; Period 120 = Sep 1937)

Date	Period	Inflow	Date	Period	Inflow	Date	Period	Inflow
Oct 1927	1	1222.	Feb	41	669.	Jun	81	194.
Nov	2	1268.	Mar	42	878.	Jul	82	171.
Dec	3	497.	Apr	43	804.	Aug	83	513.
Jan 1982	4	733.	May	44	367.	Sep	84	424.
Feb	5	647.	Jun	45	420.	Oct	85	620.
Mar	6	1385.	Jul	46	206.	Nov	86	1219.
Apr	7	999.	Aug	47	145.	Dec	87	566.
May	8	1365.	Sep	48	74.	Jan 1935	88	354.
Jun	9	1308.	Oct	49	80.	Feb	89	1044.
Jul	10	360.	Nov	50	133.	Mar	90	763.
Aug	11	282.	Dec	51	475.	Apr	91	545.
Sep	12	176.	Jan 1932	52	433.	May	92	388.
Oct	13	193.	Feb	53	530.	Jun	93	1177.
Nov	14	261.	Mar	54	1106.	Jul	94	252.
Dec	15	481.	Apr	55	506.	Aug	95	187.
Jan 1929	16	431.	May	56	513.	Sep	96	179.
Feb	17	1130.	Jun	57	276.	Oct	97	872.
Mar	18	1230.	Jul	58	130.	Nov	98	697.
Apr	19	810.	Aug	59	77.	Dec	99	613.
May	20	283.	Sep	60	429.	Jan 1936	100	331.
Jun	21	163.	Oct	61	1205.	Feb	101	3094.
Jul	22	150.	Nov	62	400.	Mar	102	820.
Aug	23	208.	Dec	63	438.	Apr	103	354.
Sep	24	608.	Jan 1933	64	526.	May	104	268.
Oct	25	614.	Feb	65	909.	Jun	105	126.
Nov	26	553.	Mar	66	1224.	Jul	106	65.
Dec	27	524.	Apr	67	655.	Aug	107	43.
Jan 1930	28	475.	May	68	348.	Sep	108	140.
Feb	29	760.	Jun	69	212.	Oct	109	172.
Mar	30	891.	Jul	70	1032.	Nov	110	560.
Apr	31	491.	Aug	71	1237.	Dec	111	1004.
May	32	575.	Sep	72	524.	Jan 1937	112	859.
Jun	33	317.	Oct	73	385.	Feb	113	679.
Jul	34	105.	Nov	74	354.	Mar	114	1282.
Aug	35	94.	Dec	75	712.	Apr	115	793.
Sep	36	75.	Jan 1934	76	139.	May	116	364.
Oct	37	76.	Feb	77	459.	Jun	117	270.
Nov	38	102.	Mar	78	1195.	Jul	118	319.
Dec	39	124.	Apr	79	550.	Aug	119	224.
Jan 1931	40	164.	May	80	307.	Sep	120	753.

TABLE 5

```
T1      SINGLE RESERVOIR WATER SUPPLY SYSTEM
T2      * BASIC RESERVOIR SYSTEM *          RUN 1
T3      MONTHLY FLOW 1927-1937 RECORD  (120 PERIODS)
J1              1       5       3       4       2
J3      6                                       1
J6 -1.59   -1.54   -2.03   -2.39   -0.52   -0.36   -0.54   -.40    0.02    0.52
J6 -2.63   -2.38
J8  4.11    4.22    4.13    4.12    4.10  213.05  213.06  213.07  213.08  213.04
RL      4   71500     300    2000   71500  180200  240000
RO      1     213
RS     18       0     150     580    2000    5380   12020   21410   35560   54300
RS  78340  110690  118140  126000  134200  142800  149700  156500  180200
RQ     18       0     600    1000    9000   10500   12000   13000   14000   15000
RQ  16000   17000   30000   54000   86000  128000  160000  198000  218000
RA     18       0      20      40      80     185     350     587     800    1040
RA   1390    1830    1922    2014    2106    2198    2267    2336    2500
RE     18    1250    1265    1280    1300    1325    1350    1370    1390    1410
RE   1430    1450    1454    1458    1462    1466    1469    1472    1481
CP      4    8500
ID RES NO.4
RT      4     213
CP    213   12000     400     100
ID C.P. 213
RT    213
ED
BF      2     120                 27100100             720
IN      4OCT 1927
IN   1222    1268     497     733     647    1385     999    1365    1308     360
IN    282     176     193     261     481     431    1130    1230     810     283
IN    163     150     208     608     614     553     524     475     760     891
IN    491     575     317     105      94      75      76     102     124     164
IN    669     878     804     367     420     206     145      74      80     133
IN    475     433     530    1106     506     513     276     130      77     429
IN   1205     400     438     526     909    1224     655     348     212    1032
IN   1237     524     385     354     712     139     459    1195     550     307
IN    194     171     513     424     620    1219     566     354    1044     763
IN    545     388    1177     252     187     179     872     697     613     331
IN   3094     820     354     268     126      65      43     140     172     560
IN   1004     859     679    1282     793     364     270     319     224     753
EJ
ER
```

TABLE 6

```
T1      SINGLE RESERVOIR WATER SUPPLY SYSTEM
T2      *  PARTIAL RECORD SIMULATION  *        RUN2
T3      MONTHLY FLOW 1927-1937 RECORD  (120 PERIODS)
J1              1       5       3       4       2
J3      6                                       1
J6 -1.59   -1.54   -2.03   -2.39   -0.52   -0.36   -0.54   -.40    0.02    0.52
J6 -2.63   -2.38
J8  4.11    4.22    4.13    4.12    4.10  213.05  213.06  213.07  213.08  213.04
RL      4   71500     300    2000   71500  180200  240000
RO      1     213
RS     18       0     150     580    2000    5380   12020   21410   35560   54300
RS  78340  110690  118140  126000  134200  142800  149700  156500  180200
RQ     18       0     600    1000    9000   10500   12000   13000   14000   15000
RQ  16000   17000   30000   54000   86000  128000  160000  198000  218000
RA     18       0      20      40      80     185     350     587     800    1040
RA   1390    1830    1922    2014    2106    2198    2267    2336    2500
RE     18    1250    1265    1280    1300    1325    1350    1370    1390    1410
RE   1430    1450    1454    1458    1462    1466    1469    1472    1481
CP      4    8500
ID RES NO.4
RT      4     213
CP    213   12000     400     100
ID C.P. 213
RT    213
ED
BF      2     120                  27100100      60     720
IN     4OCT 1927
IN   1222    1268     497     733     647    1385     999    1365    1308     360
IN    282     176     193     261     481     431    1130    1230     810     283
IN    163     150     208     608     614     553     524     475     760     891
IN    491     575     317     105      94      75      76     102     124     164
IN    669     878     804     367     420     206     145      74      80     133
IN    475     433     530    1106     506     513     276     130      77     429
IN   1205     400     438     526     909    1224     655     348     212    1032
IN   1237     524     385     354     712     139     459    1195     550     307
IN    194     171     513     424     620    1219     566     354    1044     763
IN    545     388    1177     252     187     179     872     697     613     331
IN   3094     820     354     268     126      65      43     140     172     560
IN   1004     859     679    1282     793     364     270     319     224     753
EJ
ER
```

TABLE 7

```
T1      SINGLE RESERVOIR WATER SUPPLY SYSTEM
T2      *  CRITICAL PERIOD SIMULATION  *   RUN 3
T3      MONTHLY FLOW 1927-1937 RECORD  (120 PERIODS)
J1              1       5       3       4       2
J3      6                               -10.060       1
J6 -1.59   -1.54   -2.03   -2.39   -0.52   -0.36   -0.54   -.40    0.02    0.52
J6 -2.63   -2.38
J8  4.11    4.22    4.13    4.12    4.10  213.05  213.06  213.07  213.08  213.04
RL     4   71500     300    2000   71500  180200  240000
RO     1     213
RS    18       0     150     580    2000    5380   12020   21410   35560   54300
RS 78340  110690  118140  126000  134200  142800  149700  156500  180200
RQ    18       0     600    1000    9000   10500   12000   13000   14000   15000
RQ 16000   17000   30000   54000   86000  128000  160000  198000  218000
RA    18       0      20      40      80     185     350     587     800    1040
RA  1390    1830    1922    2014    2106    2198    2267    2336    2500
RE    18    1250    1265    1280    1300    1325    1350    1370    1390    1410
RE  1430    1450    1454    1458    1462    1466    1469    1472    1481
CP     4    8500
ID RES NO.4
RT     4     213
CP   213   12000     400     100
ID C.P. 213
RT   213
ED
BF     2     120                 27100100             720
IN     4OCT 1927
IN  1222    1268     497     733     647    1385     999    1365    1308     360
IN   282     176     193     261     481     431    1130    1230     810     283
IN   163     150     208     608     614     553     524     475     760     891
IN   491     575     317     105      94      75      76     102     124     164
IN   669     878     804     367     420     206     145      74      80     133
IN   475     433     530    1106     506     513     276     130      77     429
IN  1205     400     438     526     909    1224     655     348     212    1032
IN  1237     524     385     354     712     139     459    1195     550     307
IN   194     171     513     424     620    1219     566     354    1044     763
IN   545     388    1177     252     187     179     872     697     613     331
IN  3094     820     354     268     126      65      43     140     172     560
IN  1004     859     679    1282     793     364     270     319     224     753
EJ
ER
```

TABLE 8

```
T1      SINGLE RESERVOIR WATER SUPPLY SYSTEM
T2      * DESIRED FLOWS VARIED MONTHLY, REQUIRED FLOWS CONSTANT *   RUN 4
T3      MONTHLY FLOW 1927-1937 RECORD  (120 PERIODS)
J1            1      5      3      4      2
J3     6                                 1
J6 -1.59   -1.54  -2.03  -2.39  -0.52  -0.36  -0.54   -.40   0.02   0.52
J6 -2.63   -2.38
J8  4.11    4.22   4.13   4.12   4.10 213.05 213.06 213.07 213.08 213.04
RL     4   71500    300   2000  71500 180200 240000
RO     1     213
RS    18       0    150    580   2000   5380  12020  21410  35560  54300
RS 78340  110690 118140 126000 134200 142800 149700 156500 180200
RQ    18       0    600   1000   9000  10500  12000  13000  14000  15000
RQ 16000   17000  30000  54000  86000 128000 160000 198000 218000
RA    18       0     20     40     80    185    350    587    800   1040
RA  1390    1830   1922   2014   2106   2198   2267   2336   2500
RE    18    1250   1265   1280   1300   1325   1350   1370   1390   1410
RE  1430    1450   1454   1458   1462   1466   1469   1472   1481
CP     4    8500
ID RES NO.4
RT     4     213
CP   213   12000            100
ID C.P. 213
RT   213
QM   420     440    480    500    520    540    550    530    490    440
QM   410     400
ED
BF     2     120                27100100          720
IN     40CT 1927
IN  1222    1268    497    733    647   1385    999   1365   1308    360
IN   282     176    193    261    481    431   1130   1230    810    283
IN   163     150    208    608    614    553    524    475    760    891
IN   491     575    317    105     94     75     76    102    124    164
IN   669     878    804    367    420    206    145     74     80    133
IN   475     433    530   1106    506    513    276    130     77    429
IN  1205     400    438    526    909   1224    655    348    212   1032
IN  1237     524    385    354    712    139    459   1195    550    307
IN   194     171    513    424    620   1219    566    354   1044    763
IN   545     388   1177    252    187    179    872    697    613    331
IN  3094     820    354    268    126     65     43    140    172    560
IN  1004     859    679   1282    793    364    270    319    224    753
EJ
ER
```

TABLE 9

```
T1      SINGLE RESERVOIR WATER SUPPLY SYSTEM
T2      * REQUIRED FLOWS VARY MONTHLY , DESIRED FLOWS CONSTANT. *     RUN 5
T3      MONTHLY FLOW 1927-1937 RECORD  (120 PERIODS)
J1              1       5       3       4       2
J3      6                                       1
J6  -1.59   -1.54   -2.03   -2.39   -0.52   -0.36   -0.54   -.40    0.02    0.52
J6  -2.63   -2.38
J8   4.11    4.22    4.13    4.12    4.10  212.05  212.06 213.07  213.08  213.04
RL       4   71500     300    2000   71500  180200  240000
RO       2     212     213
RS      18       0     150     580    2000    5380   12020  21410   35560   54300
RS   78340  110690  118140  126000  134200  142800  149700 156500  180200
RQ      18       0     600    1000    9000   10500   12000  13000   14000   15000
RQ   16000   17000   30000   54000   86000  128000  160000 198000  218000
RA      18       0      20      40      80     185     350    587     800    1040
RA    1390    1830    1922    2014    2106    2198    2267   2336    2500
RE      18    1250    1265    1280    1300    1325    1350   1370    1390    1410
RE    1430    1450    1454    1458    1462    1466    1469   1472    1481
CP       4    8500
ID RES NO.4
RT       4     212
CP     212   12000     400
ID C.P. 212
RT     212     213
CP     213   12000              -1
ID C.P. 213
RT     213
QM     100     120     130     140     150     150     140    130     120     110
QM     100     100
ED
BF       2     120                  27100100             720
IN      40CT 1927
IN    1222    1268     497     733     647    1385     999   1365    1308     360
IN     282     176     193     261     481     431    1130   1230     810     283
IN     163     150     208     608     614     553     524    475     760     891
IN     491     575     317     105      94      75      76    102     124     164
IN     669     878     804     367     420     206     145     74      80     133
IN     475     433     530    1106     506     513     276    130      77     429
IN    1205     400     438     526     909    1224     655    348     212    1032
IN    1237     524     385     354     712     139     459   1195     550     307
IN     194     171     513     424     620    1219     566    354    1044     763
IN     545     388    1177     252     187     179     872    697     613     331
IN    3094     820     354     268     126      65      43    140     172     560
IN    1004     859     679    1282     793     364     270    319     224     753
EJ
ER
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TABLE 10

```
T1      SINGLE RESERVOIR WATER SUPPLY SYSTEM
T2    * MONTHLY  DESIRED AND REQUIRED FLOWS *      RUN 6
T3      MONTHLY FLOW 1927-1937 RECORD  (120 PERIODS)
J1              1       5       3       4       2
J3      6                                       1
J6 -1.59   -1.54   -2.03   -2.39   -0.52   -0.36   -0.54   -.40    0.02    0.52
J6 -2.63   -2.38
JB  4.11    4.22    4.13    4.12    4.10  212.05  212.06 213.07  213.08  213.04
RL      4   71500     300    2000   71500  180200  240000
RO      2     212     213
RS     18       0     150     580    2000    5380   12020   21410   35560   54300
RS  78340  110690  118140  126000  134200  142800  149700  156500  180200
RQ     18       0     600    1000    9000   10500   12000   13000   14000   15000
RQ  16000   17000   30000   54000   86000  128000  160000  198000  218000
RA     18       0      20      40      80     185     350     587     800    1040
RA   1390    1830    1922    2014    2106    2198    2267    2336    2500
RE     18    1250    1265    1280    1300    1325    1350    1370    1390    1410
RE   1430    1450    1454    1458    1462    1466    1469    1472    1481
CP      4    8500
ID RES NO.4
RT      4     212
CP    212   12000
ID DUMMY CP
RT    212     213       0
QM    420     440     480     500     520     540     550     530     490     440
QM    410     400
CP    213   12000              -1
ID C.P. 213
RT    213
QM    100     120     130     140     150     150     140     130     120     110
QM    100     100
ED
BF      2     120                 27100100             720
IN     40CT 1927
IN   1222    1268     497     733     647    1385     999    1365    1308     360
IN    282     176     193     261     481     431    1130    1230     810     283
IN    163     150     208     608     614     553     524     475     760     891
IN    491     575     317     105      94      75      76     102     124     164
IN    669     878     804     367     420     206     145      74      80     133
IN    475     433     530    1106     506     513     276     130      77     429
IN   1205     400     438     526     909    1224     655     348     212    1032
IN   1237     524     385     354     712     139     459    1195     550     307
IN    194     171     513     424     620    1219     566     354    1044     763
IN    545     388    1177     252     187     179     872     697     613     331
IN   3094     820     354     268     126      65      43     140     172     560
IN   1004     859     679    1282     793     364     270     319     224     753
EJ
ER
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TABLE 11

```
T1      SINGLE RESERVOIR WATER SUPPLY SYSTEM
T2      * DESIRED FLOWS VARY BY PERIOD *       RUN 7
T3      MONTHLY FLOW 1927-1937 RECORD  (120 PERIODS)
J1              1       5       3       4       2
J3      6                                       1
J6  -1.59   -1.54   -2.03   -2.39   -0.52   -0.36   -0.54   -.40    0.02    0.52
J6  -2.63   -2.38
J8   4.11    4.22    4.13    4.12    4.10  213.05  213.06  213.07  213.08  213.04
RL      4   71500     300    2000   71500  180200  240000
RO      1     213
RS     18       0     150     580    2000    5380   12020   21410   35560   54300
RS  78340  110690  118140  126000  134200  142800  149700  156500  180200
RQ     18       0     600    1000    9000   10500   12000   13000   14000   15000
RQ  16000   17000   30000   54000   86000  128000  160000  198000  218000
RA     18       0      20      40      80     185     350     587     800    1040
RA   1390    1830    1922    2014    2106    2198    2267    2336    2500
RE     18    1250    1265    1280    1300    1325    1350    1370    1390    1410
RE   1430    1450    1454    1458    1462    1466    1469    1472    1481
CP      4    8500
ID RES NO.4
RT      4     213
CP    213   12000       0     100
ID C.P. 213
RT    213
ED
BF      2     120                 27100100             720
IN      4OCT 1927
IN   1222    1268     497     733     647    1385     999    1365    1308     360
IN    282     176     193     261     481     431    1130    1230     810     283
IN    163     150     208     608     614     553     524     475     760     891
IN    491     575     317     105      94      75      76     102     124     164
IN    669     878     804     367     420     206     145      74      80     133
IN    475     433     530    1106     506     513     276     130      77     429
IN   1205     400     438     526     909    1224     655     348     212    1032
IN   1237     524     385     354     712     139     459    1195     550     307
IN    194     171     513     424     620    1219     566     354    1044     763
IN    545     388    1177     252     187     179     872     697     613     331
IN   3094     820     354     268     126      65      43     140     172     560
IN   1004     859     679    1282     793     364     270     319     224     753
MR    213OCT 1927
MR    200     190     180     170     160     170     160     150     155     140
MR    110     120     115     145     155     120     110     140     110     125
MR    110     140     160     180     175     165     150     140     145     155
MR    170     180     190     195     400     190     180     185     175     165
MR    160     145     150     110     120     110     145     120     140     150
MR    110     115     140     145     120     115     100     110     105     110
MR    120     125     120     225     225     245     240     255     260     270
MR    110     125     240     260     265     255     265     270     260     255
MR    160     145     150     110     120     110     145     120     140     150
MR    110     115     140     145     120     115     100     110     105     110
MR    120     125     120     225     225     245     240     255     260     270
MR    110     125     240     260     265     255     265     270     260     255
EJ
ER
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TABLE 12

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T1      SINGLE RESERVOIR WATER SUPPLY SYSTEM
T2      * REQUIRED FLOWS VARY BY PERIOD *      RUN 8
T3      MONTHLY FLOW 1927-1937 RECORD  (120 PERIODS)
J1              1       5       3       4       2
J3      6                                       1
J6  -1.59   -1.54   -2.03   -2.39   -0.52   -0.36   -0.54   -.40    0.02    0.52
J6  -2.63   -2.38
JB   4.11    4.22    4.13    4.12    4.10  212.05  212.06 213.07  213.08  213.04
RL      4   71500     300    2000   71500  180200  240000
RO      2     212     213
RS     18       0     150     580    2000    5380   12020   21410   35560   54300
RS  78340  110690  118140  126000  134200  142800  149700  156500  180200
RQ     18       0     600    1000    9000   10500   12000   13000   14000   15000
RQ  16000   17000   30000   54000   86000  128000  160000  198000  218000
RA     18       0      20      40      80     185     350     587     800    1040
RA   1390    1830    1922    2014    2106    2198    2267    2336    2500
RE     18    1250    1265    1280    1300    1325    1350    1370    1390    1410
RE   1430    1450    1454    1458    1462    1466    1469    1472    1481
CP      4    8500
ID RES NO.4
RT      4     212
CP    212   12000     400
ID DUMMY CP
RT    212     213
CP    213   12000              -1
ID C.P. 213
RT    213
ED
BF      2     120                    27100100             720
IN     40CT 1927
IN   1222    1268     497     733     647    1385     999    1365    1308     360
IN    282     176     193     261     481     431    1130    1230     810     283
IN    163     150     208     608     614     553     524     475     760     891
IN    491     575     317     105      94      75      76     102     124     164
IN    669     878     804     367     420     206     145      74      80     133
IN    475     433     530    1106     506     513     276     130      77     429
IN   1205     400     438     526     909    1224     655     348     212    1032
IN   1237     524     385     354     712     139     459    1195     550     307
IN    194     171     513     424     620    1219     566     354    1044     763
IN    545     388    1177     252     187     179     872     697     613     331
IN   3094     820     354     268     126      65      43     140     172     560
IN   1004     859     679    1282     793     364     270     319     224     753
MR   213OCT 1927
MR    100     190     180     170     160     170     160     150     155     140
MR    110     110     115     145     155     110     110     140     110     115
MR    110     140     160     180     175     165     150     140     145     155
MR    170     180     190     195     400     190     180     185     175     165
MR    160     145     150     110     110     110     145     110     140     150
MR    110     115     140     145     110     115     100     110     105     110
MR    110     115     110     115     115     145     140     155     160     170
MR    110     115     140     160     165     155     165     170     160     155
MR    100     190     180     170     160     170     160     150     155     140
MR    170     180     190     195     400     190     180     185     175     165
MR    160     145     150     110     110     110     145     110     140     150
MR    110     115     140     145     110     115     100     110     105     110
EJ
ER
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TABLE 13

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T1      SINGLE RESERVOIR WATER SUPPLY SYSTEM
T2    * PERIOD VARYING DESIRED AND REQUIRED FLOWS *      RUN 9
T3      MONTHLY FLOW 1927-1937 RECORD  (120 PERIODS)
J1              1       5       3       4       2
J3      6                                       1
J6  -1.59   -1.54   -2.03   -2.39   -0.52   -0.36   -0.54    -.40    0.02    0.52
J6  -2.63   -2.38
J8   4.11    4.22    4.13    4.12    4.10  212.05  212.06  213.07  213.08  213.04
RL      4   71500     300    2000   71500  180200  240000
RQ      2     212     213
RS     18       0     150     580    2000    5380   12020   21410   35560   54300
RS  78340  110690  118140  126000  134200  142800  149700  156500  180200
RQ     18       0     600    1000    9000   10500   12000   13000   14000   15000
RQ  16000   17000   30000   54000   86000  128000  160000  198000  218000
RA     18       0      20      40      80     185     350     587     800    1040
RA   1390    1830    1922    2014    2106    2198    2267    2336    2500
RE     18    1250    1265    1280    1300    1325    1350    1370    1390    1410
RE   1430    1450    1454    1458    1462    1466    1469    1472    1481
CP      4    8500
ID RES NO.4
RT      4     212
CP    212   12000
ID DUMMY CP
RT    212     213
CP    213   12000              -1
ID C.P. 213
RT    213
ED
BF      2     120                    27100100             720
IN     40CT 1927
IN   1222    1268     497     733     647    1385     999    1365    1308     360
IN    282     176     193     261     481     431    1130    1230     810     283
IN    163     150     208     608     614     553     524     475     760     891
IN    491     575     317     105      94      75      76     102     124     164
IN    669     878     804     367     420     206     145      74      80     133
IN    475     433     530    1106     506     513     276     130      77     429
IN   1205     400     438     526     909    1224     655     348     212    1032
IN   1237     524     385     354     712     139     459    1195     550     307
IN    194     171     513     424     620    1219     566     354    1044     763
IN    545     388    1177     252     187     179     872     697     613     331
IN   3094     820     354     268     126      65      43     140     172     560
IN   1004     859     679    1282     793     364     270     319     224     753
MR    212OCT 1927
MR    200     290     280     270     260     270     260     250     255     240
MR    220     220     225     245     255     220     220     240     220     225
MR    220     240     260     280     275     265     250     240     245     255
MR    270     280     290     295     400     290     280     285     275     265
MR    260     245     250     220     220     220     245     220     240     250
MR    220     225     240     245     220     225     200     220     205     220
MR    220     225     220     225     225     245     240     255     260     270
MR    220     225     240     260     265     255     265     270     260     255
MR    200     290     280     270     260     270     260     250     255     240
MR    220     220     225     245     255     220     220     240     220     225
MR    220     240     260     280     275     265     250     240     245     255
MR    270     280     290     295     400     290     280     285     275     265
MR    213OCT 1927
MR    100     190     180     170     160     170     160     150     155     140
MR    110     110     115     145     155     110     110     140     110     115
MR    110     140     160     180     175     165     150     140     145     155
MR    170     180     190     195     400     190     180     185     175     165
MR    160     145     150     110     110     110     145     110     140     150
MR    110     115     140     145     110     115     100     110     105     110
MR    110     115     110     115     115     145     140     155     160     170
MR    110     115     140     160     165     155     165     170     160     155
MR    100     190     180     170     160     170     160     150     155     140
MR    170     180     190     195     400     190     180     185     175     165
MR    160     145     150     110     110     110     145     110     140     150
MR    110     115     140     145     110     115     100     110     105     110
EJ
ER
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TABLE 14

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T1       SINGLE RESRVOIR WATER SUPPLY SYSTEM
T2      *   SEASONALLY VARYING BUFFER AND CONSERVATION POOLS  *
T3       DAILY FLOW 1929 RECORD  (365 PERIODS)                RUN 10
J1              1       5       3       4       2
J2                              32
J3      6                                       1
J6  -1.59   -1.54   -2.03   -2.39   -0.52   -0.36   -0.54   -.40    0.02     0.5
J6  -2.63   -2.38
J8   4.09    4.38    4.11    4.13    4.22  213.05  213.06  213.07  213.08  213.04
RL       4  110690
RL       1       4      -1             300
RL       2       4       5            2000   12020   12020    2000    2000
RL       3       4       5          110690  180000  180000  110690  110690
RL       4       4      -1          180200
RL       5       4      -1          240000
RQ       1     213
RS      18       0     150     580    2000    5380   12020   21410   35560   54300
RS   78340  110690  118140  126000  134200  142800  156500  180200  240000
RQ      18       0     100     100    9000   10500   12000   13000   14000   15000
RQ   16000   17000   30000   54000   86000  128000  198000  218000  218000
RA      18       0      20      40      80     185     350     587     800    1040
RA    1390    1830    1922    2014    2106    2198    2336    2500    2600
RE      18    1250    1265    1280    1300    1325    1350    1370    1390    1410
RE    1430    1450    1454    1458    1462    1466    1472    1481    1500
CP       4    8500
IDRES 4
RT       4     213
CS       5     120     151     240     265     365
CP     213   12000     400     100
ID C P 213
RT     213
ED
BF       2     365                 29010100              24
IN       4  01JAN29
IN    1104    1090    1076    1062    1048    1034    1020    1006     992     978
IN     964     950     936     922     908     894     880     866     852     838
IN     824     810     792     774     757     739     722     704     687     669
IN     651     634     616     599     581     564     546     528     511     493
IN     476     458     441     423     405     388     370     353     335     318
IN     300     283     279     275     271     267     263     259     255     251
IN     247     243     239     235     231     227     223     219     215     211
IN     207     203     199     195     191     187     183     179     175     171
IN     167     163     162     162     161     161     160     160     159     159
IN     159     158     158     157     157     156     156     156     155     155
IN     154     154     153     153     153     152     152     151     151     150
IN     150     148     145     142     135     130     125     119     117     113
IN     112     109      99      99      98      96      94      94      92      91
IN      90      91      86      85      86      86      86      87      88      87
IN      75      75      74      75      73      71      70      60      60      50
IN      56      53      50      50      51      51      53      52      53      56
IN      55      59      50      50      54      53      55      55      58      50
IN      45      46      47      43      43      43      43      43      43      43
IN      43      43      40      40      40      40      38      38      38      37
IN      30      30      29      30      34      34      33      35      36      35
IN      34      35      37      37      38      39      39      39      39      38
IN      45      45      48      49      49      50      50      51      52      52
IN      88      88      89      89      90      92      91      92      93      95
IN      98      90      96      99      91      98     100     101     105     107
IN     128     135     140     144     147     150     151     157     159     161
IN     150     150     151     153     155     157     159     161     163     165
IN     167     169     171     173     175     177     179     180     182     184
IN     186     188     190     192     194     196     198     200     202     204
IN     206     208     221     234     247     261     274     287     301     314
IN     327     341     354     367     381     394     408     421     434     447
IN     461     474     487     501     514     527     541     554     567     581
IN     594     608     608     608     608     608     608     609     609     609
IN     609     609     610     610     610     610     611     611     611     611
IN     611     611     612     612     612     612     612     613     613     613
IN     613     614     611     609     607     605     603     601     599     597
IN     595     593     591     589     587     585     583     581     579     577
IN     575     573     571     569     567
EJ
ER
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TABLE 15

```
T1       SINGLE RESERVOIR WATER SUPPLY SYSTEM
T2  *   SEASONALLY VARYING MINIMUM DESIRED FLOW  *
T3       DAILY FLOW 1929 RECORD  (365 PERIODS)                RUN 11
J1              1       5       3       4       2
J2                              32
J3      6                                       1
J6  -1.59   -1.54   -2.03   -2.39   -0.52   -0.36   -0.54   -.40    0.02    0.5
J6  -2.63   -2.38
J8   4.09    4.38    4.11    4.13    4.22  213.05  213.06  213.07  213.08  213.04
RL       4   71500
RL       1       4      -1             300
RL       2       4      -1            2000
RL       3       4       5          110690  180000  180000  110690  110690
RL       4       4      -1          180200
RL       5       4      -1          240000
RQ       1     213
RS      18       0     150     580    2000    5380   12020   21410   35560   54300
RS   78340  110690  118140  126000  134200  142800  156500  180200  240000
RQ      18       0     100     100    9000   10500   12000   13000   14000   15000
RQ   16000   17000   30000   54000   86000  128000  198000  218000  218000
RA      18       0      20      40      80     185     350     587     800    1040
RA    1390    1830    1922    2014    2106    2198    2336    2500    2600
RE      18    1250    1265    1280    1300    1325    1350    1370    1390    1410
RE    1430    1450    1454    1458    1462    1466    1472    1481    1500
CP       4    8500
IDRES 4
RT       4     213
CS       5     120     151     240     265     365
CP     213   12000             100
ID C P 213
RT     213
CS       5     120     151     240     265     365
CG  -1.40    1400    1430    1430    1400    1400
CG  -1.45    1425    1455    1455    1425    1425
CG  -1.50    1450    1480    1480    1450    1450
QM      -4     400     450     500
ED
BF       2     365                 29010100            24
IN       4  01JAN29
IN    1104    1090    1076    1062    1048    1034    1020    1006     992     978
IN     964     950     936     922     908     894     880     866     852     838
IN     824     810     792     774     757     739     722     704     687     669
IN     651     634     616     599     581     564     546     528     511     493
IN     476     458     441     423     405     388     370     353     335     318
IN     300     283     279     275     271     267     263     259     255     251
IN     247     243     239     235     231     227     223     219     215     211
IN     207     203     199     195     191     187     183     179     175     171
IN     167     163     162     162     161     161     160     160     159     159
IN     159     158     158     157     157     156     156     156     155     155
IN     154     154     153     153     153     152     152     151     151     150
IN     150     148     145     142     135     130     125     119     117     113
IN     112     109      99      99      98      96      94      94      92      91
IN      90      91      86      85      86      86      86      87      88      87
IN      75      75      74      75      73      71      70      60      60      50
IN      56      53      50      50      51      51      53      52      53      56
IN      55      59      50      50      54      53      55      55      58      50
IN      45      46      47      43      43      43      43      43      43      43
IN      43      43      40      40      40      40      38      38      38      37
IN      30      30      29      30      34      34      33      35      36      35
IN      34      35      37      37      38      39      39      39      39      38
IN      45      45      48      49      49      50      50      51      52      52
IN      88      88      89      89      90      92      91      92      93      95
IN      98      90      96      99      91      98     100     101     105     107
IN     128     135     140     144     147     150     151     157     159     161
IN     150     150     151     153     155     157     159     161     163     165
IN     167     169     171     173     175     177     179     180     182     184
IN     186     188     190     192     194     196     198     200     202     204
IN     206     208     221     234     247     261     274     287     301     314
IN     327     341     354     367     381     394     408     421     434     447
IN     461     474     487     501     514     527     541     554     567     581
IN     594     608     608     608     608     608     608     609     609     609
IN     609     609     610     610     610     610     611     611     611     611
IN     611     611     612     612     612     612     612     613     613     613
IN     613     614     611     609     607     605     603     601     599     597
IN     595     593     591     589     587     585     583     581     579     577
IN     575     573     571     569     567
EJ
ER
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TABLE 16

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T1      SINGLE RESERVOIR WATER SUPPLY SYSTEM
T2      * CONSTANT DIVERSION AT RESERVOIR *      RUN12
T3      MONTHLY FLOW 1927-1937 RECORD  (120 PERIODS)
J1              1       5       3       4       2
J3      6                                       1
J6 -1.59   -1.54   -2.03   -2.39   -0.52   -0.36   -0.54   -.40    0.02    0.52
J6 -2.63   -2.38
J8  4.11    4.22    4.13    4.12    4.10    4.30    4.03    4.31  213.03  213.04
RL      4   71500     300    2000   71500  180200  240000
RO      1     213
RS     18       0     150     580    2000    5380   12020   21410   35560   54300
RS  78340  110690  118140  126000  134200  142800  149700  156500  180200
RQ     18       0     600    1000    9000   10500   12000   13000   14000   15000
RQ  16000   17000   30000   54000   86000  128000  160000  198000  218000
RA     18       0      20      40      80     185     350     587     800    1040
RA   1390    1830    1922    2014    2106    2198    2267    2336    2500
RE     18    1250    1265    1280    1300    1325    1350    1370    1390    1410
RE   1430    1450    1454    1458    1462    1466    1469    1472    1481
CP      4    8500
ID RES NO.4
RT      4     213
DR      4     213                             0.2             150
CP    213   12000     400     100
ID C.P. 213
RT    213
ED
BF      2     120                27100100             720
IN      4OCT 1927
IN   1222    1268     497     733     647    1385     999    1365    1308     360
IN    282     176     193     261     481     431    1130    1230     810     283
IN    163     150     208     608     614     553     524     475     760     891
IN    491     575     317     105      94      75      76     102     124     164
IN    669     878     804     367     420     206     145      74      80     133
IN    475     433     530    1106     506     513     276     130      77     429
IN   1205     400     438     526     909    1224     655     348     212    1032
IN   1237     524     385     354     712     139     459    1195     550     307
IN    194     171     513     424     620    1219     566     354    1044     763
IN    545     388    1177     252     187     179     872     697     613     331
IN   3094     820     354     268     126      65      43     140     172     560
IN   1004     859     679    1282     793     364     270     319     224     753
EJ
ER
```

TABLE 17

```
T1      SINGLE RESERVOIR WATER SUPPLY SYSTEM
T2      * MONTHLY DIVERSION DOWNSTREAM *  RUN13
T3      MONTHLY FLOW 1927-1937 RECORD  (120 PERIODS)
J1              1       5       3       4       2
J3      6                                       1
J6  -1.59   -1.54   -2.03   -2.39   -0.52   -0.36   -0.54   -.40    0.02    0.52
J6  -2.63   -2.38
J8   4.11    4.22    4.13    4.12    4.10  213.05  213.06  213.30  213.03  213.04
RL      4   71500     300    2000   71500  180200  240000
RO      1     213
RS     18       0     150     580    2000    5380   12020   21410   35560   54300
RS  78340  110690  118140  126000  134200  142800  149700  156500  180200
RQ     18       0     600    1000    9000   10500   12000   13000   14000   15000
RQ  16000   17000   30000   54000   86000  128000  160000  198000  218000
RA     18       0      20      40      80     185     350     587     800    1040
RA   1390    1830    1922    2014    2106    2198    2267    2336    2500
RE     18    1250    1265    1280    1300    1325    1350    1370    1390    1410
RE   1430    1450    1454    1458    1462    1466    1469    1472    1481
CP      4    8500
ID RES NO.4
RT      4     213
CP    213   12000     400     100
ID C.P. 213
RT    213
DR    213                                                     1
QD     12     150     140     120     100     100     100     100     100     100
QD    100     140     150
ED
BF      2     120                     27100100                720
IN      40CT 1927
IN   1222    1268     497     733     647    1385     999    1365    1308     360
IN    282     176     193     261     481     431    1130    1230     810     283
IN    163     150     208     608     614     553     524     475     760     891
IN    491     575     317     105      94      75      76     102     124     164
IN    669     878     804     367     420     206     145      74      80     133
IN    475     433     530    1106     506     513     276     130      77     429
IN   1205     400     438     526     909    1224     655     348     212    1032
IN   1237     524     385     354     712     139     459    1195     550     307
IN    194     171     513     424     620    1219     566     354    1044     763
IN    545     388    1177     252     187     179     872     697     613     331
IN   3094     820     354     268     126      65      43     140     172     560
IN   1004     859     679    1282     793     364     270     319     224     753
EJ
ER
```

TABLE 18

```
T1      SINGLE RESERVOIR WATER SUPPLY SYSTEM
T2      *DIVERSION DOWNSTREAM VARYS BY PERIOD*      RUN 14
T3      MONTHLY FLOW 1927-1937 RECORD  (120 PERIODS)
J1              1       5       3       4       2
J3      6                                       1
J6  -1.59   -1.54   -2.03   -2.39   -0.52   -0.36   -0.54    -.40    0.02    0.52
J6  -2.63   -2.38
J8   4.11    4.22    4.13    4.12    4.10  213.05  213.06  213.30  213.03  213.04
RL       4   71500     300    2000   71500  180200  240000
RO       1     213
RS      18       0     150     580    2000    5380   12020   21410   35560   54300
RS   78340  110690  118140  126000  134200  142800  149700  156500  180200
RQ      18       0     600    1000    9000   10500   12000   13000   14000   15000
RQ   16000   17000   30000   54000   86000  128000  160000  198000  218000
RA      18       0      20      40      80     185     350     587     800    1040
RA    1390    1830    1922    2014    2106    2198    2267    2336    2500
RE      18    1250    1265    1280    1300    1325    1350    1370    1390    1410
RE    1430    1450    1454    1458    1462    1466    1469    1472    1481
CP       4    8500
ID RES NO.4
RT       4     213
CP     213   12000     400     100
ID C.P. 213
RT     213
DR     213                                             -5
ED
BF       2     120                 27100100             720
IN      40CT 1927
IN    1222    1268     497     733     647    1385     999    1365    1308     360
IN     282     176     193     261     481     431    1130    1230     810     283
IN     163     150     208     608     614     553     524     475     760     891
IN     491     575     317     105      94      75      76     102     124     164
IN     669     878     804     367     420     206     145      74      80     133
IN     475     433     530    1106     506     513     276     130      77     429
IN    1205     400     438     526     909    1224     655     348     212    1032
IN    1237     524     385     354     712     139     459    1195     550     307
IN     194     171     513     424     620    1219     566     354    1044     763
IN     545     388    1177     252     187     179     872     697     613     331
IN    3094     820     354     268     126      65      43     140     172     560
IN    1004     859     679    1282     793     364     270     319     224     753
QD     213OCT 1927
QD     200     190     180     170     160     170     160     150     155     140
QD     110     120     115     145     155     120     110     140     110     125
QD     110     140     160     180     175     165     150     140     145     155
QD     170     180     190     195     200     190     180     185     175     165
QD     160     145     150     110     120     110     145     120     140     150
QD     110     115     140     145     120     115     100     110     105     110
QD     120     125     120     225     225     245     240     255     260     270
QD     110     125     240     260     265     255     265     270     260     255
QD     160     145     150     110     120     110     145     120     140     150
QD     110     115     140     145     120     115     100     110     105     110
QD     120     125     120     225     225     245     240     255     260     270
QD     110     125     240     260     265     255     265     270     260     255
EJ
ER
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TABLE 19

```
T1      SINGLE RESERVOIR WATER SUPPLY SYSTEM
T2      * DIVERSION AT RESERVOIR A FUNCTION OF RESERVOIR STORAGE *   RUN 15
T3      MONTHLY FLOW 1927-1937 RECORD  (120 PERIODS)
J1              1       5       3       4       2
J3      6                                       1
J6  -1.59   -1.54   -2.03   -2.39   -0.52   -0.36   -0.54   -.40    0.02    0.52
J6  -2.63   -2.38
JB   4.11    4.22    4.13    4.12    4.10    4.03  213.03  213.05  213.06  213.04
RL      4   71500     300    2000   71500  180200  240000
RO      1     213
RS     18       0     150     580    2000    5380   12020   21410   35560   54300
RS  78340  110690  118140  126000  134200  142800  149700  156500  180200
RQ     18       0     600    1000    9000   10500   12000   13000   14000   15000
RQ  16000   17000   30000   54000   86000  128000  160000  198000  218000
RA     18       0      20      40      80     185     350     587     800    1040
RA   1390    1830    1922    2014    2106    2198    2267    2336    2500
RE     18    1250    1265    1280    1300    1325    1350    1370    1390    1410
RE   1430    1450    1454    1458    1462    1466    1469    1472    1481
RD      0       0       0       0       0      20      40      60      80     100
RD    120     150     150     150     150     150     150     150     150
CP      4    8500
ID RES NO.4
RT      4     213       0
DR      4     213                               0.2      -2
CP    213   12000     400     100
ID C.P. 213
RT    213
ED
BF      2     120                27100100                720
IN      4OCT 1927
IN   1222    1268     497     733     647    1385     999    1365    1308     360
IN    282     176     193     261     481     431    1130    1230     810     283
IN    163     150     208     608     614     553     524     475     760     891
IN    491     575     317     105      94      75      76     102     124     164
IN    669     878     804     367     420     206     145      74      80     133
IN    475     433     530    1106     506     513     276     130      77     429
IN   1205     400     438     526     909    1224     655     348     212    1032
IN   1237     524     385     354     712     139     459    1195     550     307
IN    194     171     513     424     620    1219     566     354    1044     763
IN    545     388    1177     252     187     179     872     697     613     331
IN   3094     820     354     268     126      65      43     140     172     560
IN   1004     859     679    1282     793     364     270     319     224     753
EJ
ER
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TABLE 20

```
T1      SINGLE RESERVOIR WATER SUPPLY SYSTEM
T2      * DIVERSION OF FLOOD WATERS AT RESERVOIR *    RUN 16
T3      MONTHLY FLOW 1927-1937 RECORD  (120 PERIODS)
J1            1       5       3       4       2
J3      6                                     1
J6  -1.59   -1.54   -2.03   -2.39   -0.52   -0.36   -0.54    -.40    0.02    0.52
J6  -2.63   -2.38
J8   4.11    4.22    4.13    4.12    4.10    4.03  213.03    4.05    4.06  213.04
RL      4   71500     300    2000   71500  180200  240000
RQ      1     213
RS     18       0     150     580    2000    5380   12020   21410   35560   54300
RS  78340  110690  118140  126000  134200  142800  149700  156500  180200
RQ     18       0     600    1000    9000   10500   12000   13000   14000   15000
RQ  16000   17000   30000   54000   86000  128000  160000  198000  218000
RA     18       0      20      40      80     185     350     587     800    1040
RA   1390    1830    1922    2014    2106    2198    2267    2336    2500
RE     18    1250    1265    1280    1300    1325    1350    1370    1390    1410
RE   1430    1450    1454    1458    1462    1466    1469    1472    1481
RD     -1     100     200     300     400     500     600     700     800     900
RD   1000    1100    1200    1300    1400    1500    1600    1700    1800
CP      4    8500     400     100
ID RES NO.4
RT      4     213
DR      4     213                                   0.2
CP    213   12000
ID C.P. 213
RT    213
ED
BF      2     120                 27100000             720
IN     4OCT 1927
IN  1222.   1268.    497.    733.    647.   1385.    999.   1365.   1308.    360.
IN   282.    176.    193.    261.    481.    431.   1130.   1230.    810.    283.
IN   163.    150.    208.    608.    614.    553.    524.    475.    760.    891.
IN   491.    575.    317.    105.     94.     75.     76.    102.    124.    164.
IN   669.    878.    804.    367.    420.    206.    145.     74.     80.    133.
IN   475.    433.    530.   1106.    506.    513.    276.    130.     77.    429.
IN  1205.    400.    438.    526.    909.   1224.    655.    348.    212.   1032.
IN  1237.    524.    385.    354.    712.    139.    459.   1195.    550.    307.
IN   194.    171.    513.    424.    620.   1219.    566.    354.   1044.    763.
IN   545.    388.   1177.    252.    187.    179.    872.    697.    613.    331.
IN  3094.    820.    354.    268.    126.     65.     43.    140.    172.    560.
IN  1004.    859.    679.   1282.    793.    364.    270.    319.    224.    753.
EJ
ER
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TABLE 21

```
T1      SINGLE RESERVOIR WATER SUPPLY SYSTEM
T2      * DIVERSION A FUNCTION OF INFLOW *   RUN 17
T3      MONTHLY FLOW 1927-1937 RECORD  (120 PERIODS)
J1              1       5       3       4       2
J3      6                                       1
J6  -1.59   -1.54   -2.03   -2.39   -0.52   -0.36   -0.54   -.40    0.02    0.52
J6  -2.63   -2.38
JB   4.24    4.11    4.22    4.13    4.12    4.10    4.03  213.03  213.06  213.04
RL      4   71500     300    2000   71500  180200  240000
RO      1     213
RS     18       0     150     580    2000    5380   12020   21410   35560   54300
RS  78340  110690  118140  126000  134200  142800  149700  156500  180200
RQ     18       0     600    1000    9000   10500   12000   13000   14000   15000
RQ  16000   17000   30000   54000   86000  128000  160000  198000  218000
RA     18       0      20      40      80     185     350     587     800    1040
RA   1390    1830    1922    2014    2106    2198    2267    2336    2500
RE     18    1250    1265    1280    1300    1325    1350    1370    1390    1410
RE   1430    1450    1454    1458    1462    1466    1469    1472    1481
CP      4    8500
ID  RES NO.4
RT      4     213
DR      4     213                             0.2      -1
QS      6       0     100     200     400     800   10000
QD      6       0       0      80     160     160     160
CP    213   12000     400     100
ID  C.P. 213
RT    213
ED
BF      2     120                27100100             720
IN     40CT 1927
IN   1222    1268     497     733     647    1385     999    1365    1308     360
IN    282     176     193     261     481     431    1130    1230     810     283
IN    163     150     208     608     614     553     524     475     760     891
IN    491     575     317     105      94      75      76     102     124     164
IN    669     878     804     367     420     206     145      74      80     133
IN    475     433     530    1106     506     513     276     130      77     429
IN   1205     400     438     526     909    1224     655     348     212    1032
IN   1237     524     385     354     712     139     459    1195     550     307
IN    194     171     513     424     620    1219     566     354    1044     763
IN    545     388    1177     252     187     179     872     697     613     331
IN   3094     820     354     268     126      65      43     140     172     560
IN   1004     859     679    1282     793     364     270     319     224     753
EJ
ER
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TABLE 22

```
T1              SINGLE RESERVOIR WATER SUPPLY SYSTEM
T2              *OPTIMIZATION OF CONSERVATION STORAGE *   RUN 1B
T3              MONTHLY FLOW 1927-1937 RECORD  (120 PERIODS)
J1                  1       5       3       4       2
J3      6                                           1
J6  -1.59   -1.54   -2.03   -2.39   -0.52   -0.36   -0.54   -.40    0.02    0.52
J6  -2.63   -2.38
J7    4.0                                                       2       6    .05
J8   4.11    4.13    4.12    4.09    4.10    4.05    4.06  213.04
RL      4   71500     300    2000   71500  160500  180200
RO      1     213
RS     18       0     150     580    2000    5380   12020   21410   35560   54300
RS  78340  110690  118140  126000  134200  142800  149700  156500  180200
RQ     18       0     600    1000    9000   10500   12000   13000   14000   15000
RQ  16000   17000   30000   54000   86000  128000  160000  198000  218000
RA     18       0      20      40      80     185     350     587     800    1040
RA   1390    1830    1922    2014    2106    2198    2267    2336    2500
RE     18    1250    1265    1280    1300    1325    1350    1370    1390    1410
RE   1430    1450    1454    1458    1462    1466    1469    1472    1481
CP      4    8500     400
ID RES NO.4
RT      4     213
CP    213   12000
ID C.P. 213
RT    213
ED
BF      2     120                 27100100            720
IN     40CT 1927
IN   1222    1268     497     733     647    1385     999    1365    1308     360
IN    282     176     193     261     481     431    1130    1230     810     283
IN    163     150     208     608     614     553     524     475     760     891
IN    491     575     317     105      94      75      76     102     124     164
IN    669     878     804     367     420     206     145      74      80     133
IN    475     433     530    1106     506     513     276     130      77     429
IN   1205     400     438     526     909    1224     655     348     212    1032
IN   1237     524     385     354     712     139     459    1195     550     307
IN    194     171     513     424     620    1219     566     354    1044     763
IN    545     388    1177     252     187     179     872     697     613     331
IN   3094     820     354     268     126      65      43     140     172     560
IN   1004     859     679    1282     793     364     270     319     224     753
EJ
ER
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TABLE 23

```
T1              SINGLE RESERVOIR WATER SUPPLY SYSTEM
T2              * OPTIMIZATION OF MONTHLY DESIRED FLOW *    RUN 19
T3              MONTHLY FLOW 1927-1937 RECORD  (120 PERIODS)
J1                  1       5       3       4       2
J3      6                                       1
J6  -1.59   -1.54   -2.03   -2.39   -0.52   -0.36   -0.54   -.40    0.02    0.52
J6  -2.63   -2.38
J7    4.2                                                       2       6     .05
J8   4.11    4.12    4.09    4.10    4.05    4.06    4.07    4.08  213.04
RL      4   71500     300    2000   71500  180200  240000
RO      1     213
RS     18       0     150     580    2000    5380   12020   21410   35560   54300
RS  78340  110690  118140  126000  134200  142800  149700  156500  180200
RQ     18       0     600    1000    9000   10500   12000   13000   14000   15000
RQ  16000   17000   30000   54000   86000  128000  160000  198000  218000
RA     18       0      20      40      80     185     350     587     800    1040
RA   1390    1830    1922    2014    2106    2198    2267    2336    2500
RE     18    1250    1265    1280    1300    1325    1350    1370    1390    1410
RE   1430    1450    1454    1458    1462    1466    1469    1472    1481
CP      4    8500             100
ID RES NO.4
RT      4     213
QM    420     440     480     500     520     540     550     530     490     440
QM    410     400
CP    213   12000
ID C.P. 213
RT    213
ED
BF      2     120                     27100100             720
IN     40CT 1927
IN   1222    1268     497     733     647    1385     999    1365    1308     360
IN    282     176     193     261     481     431    1130    1230     810     283
IN    163     150     208     608     614     553     524     475     760     891
IN    491     575     317     105      94      75      76     102     124     164
IN    669     878     804     367     420     206     145      74      80     133
IN    475     433     530    1106     506     513     276     130      77     429
IN   1205     400     438     526     909    1224     655     348     212    1032
IN   1237     524     385     354     712     139     459    1195     550     307
IN    194     171     513     424     620    1219     566     354    1044     763
IN    545     388    1177     252     187     179     872     697     613     331
IN   3094     820     354     268     126      65      43     140     172     560
IN   1004     859     679    1282     793     364     270     319     224     753
EJ
ER
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TABLE 24

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T1              SINGLE RESERVOIR WATER SUPPLY SYSTEM
T2              *OPTIMIZATION OF PERIOD VARYING DESIRED FLOWS*    RUN 20
T3              MONTHLY FLOW 1927-1937 RECORD  (120 PERIODS)
J1                  1       5       3       4       2
J3      6                                       1
J6  -1.59   -1.54   -2.03   -2.39   -0.52   -0.36   -0.54   -.40    0.02    0.52
J6  -2.63   -2.38
J7   4.2                                                            2       6     .05
JB   4.11    4.12    4.09    4.10    4.05    4.06    4.07    4.08  213.04
RL      4   71500     300    2000   71500  180200  240000
RD      1     213
RS     18       0     150     580    2000    5380   12020   21410   35560   54300
RS  78340  110690  118140  126000  134200  142800  149700  156500  180200
RQ     18       0     600    1000    9000   10500   12000   13000   14000   15000
RQ  16000   17000   30000   54000   86000  128000  160000  198000  218000
RA     18       0      20      40      80     185     350     587     800    1040
RA   1390    1830    1922    2014    2106    2198    2267    2336    2500
RE     18    1250    1265    1280    1300    1325    1350    1370    1390    1410
RE   1430    1450    1454    1458    1462    1466    1469    1472    1481
CP      4    8500                    100
ID RES NO.4
RT      4     213
CP    213   12000
ID C.P. 213
RT    213
ED
BF      2     120                27100100                720
IN      4OCT 1927
IN   1222    1268     497     733     647    1385     999    1365    1308     360
IN    282     176     193     261     481     431    1130    1230     810     283
IN    163     150     208     608     614     553     524     475     760     891
IN    491     575     317     105      94      75      76     102     124     164
IN    669     878     804     367     420     206     145      74      80     133
IN    475     433     530    1106     506     513     276     130      77     429
IN   1205     400     438     526     909    1224     655     348     212    1032
IN   1237     524     385     354     712     139     459    1195     550     307
IN    194     171     513     424     620    1219     566     354    1044     763
IN    545     388    1177     252     187     179     872     697     613     331
IN   3094     820     354     268     126      65      43     140     172     560
IN   1004     859     679    1282     793     364     270     319     224     753
MR      4OCT 1927
MR    400     390     380     370     360     370     360     350     355     340
MR    330     320     335     345     355     320     310     340     330     325
MR    330     340     360     380     375     365     350     340     345     355
MR    370     380     390     395     400     390     380     385     375     365
MR    360     345     350     330     320     330     345     320     340     350
MR    330     335     340     345     320     315     300     310     305     310
MR    320     325     330     325     335     345     340     355     360     370
MR    330     335     340     360     365     355     365     370     360     355
MR    360     345     350     330     320     330     345     320     340     350
MR    330     335     340     345     320     315     300     310     305     310
MR    320     325     330     325     335     345     340     355     360     370
MR    330     335     340     360     365     355     365     370     360     355
EJ
ER
```

TABLE 25

```
T1              SINGLE RESERVOIR WATER SUPPLY SYSTEM
T2              *OPTIMIZATION OF REQUIRED FLOWS*    RUN 21
T3              MONTHLY FLOW 1927-1937 RECORD  (120 PERIODS)
J1                  1       5       3       4       2
J3      6                                       1
J6  -1.59   -1.54   -2.03   -2.39   -0.52   -0.36   -0.54   -.40    0.02    0.52
J6  -2.63   -2.38
J7    4.3                                                       2       6    .05
J8   4.11    4.13    4.12    4.09    4.10    4.05    4.06    4.07    4.08  213.04
RL      4   71500     300    2000   71500  180200  240000
RO      1     213
RS     18       0     150     580    2000    5380   12020   21410   35560   54300
RS  78340  110690  118140  126000  134200  142800  149700  156500  180200
RQ     18       0     600    1000    9000   10500   12000   13000   14000   15000
RQ  16000   17000   30000   54000   86000  128000  160000  198000  218000
RA     18       0      20      40      80     185     350     587     800    1040
RA   1390    1830    1922    2014    2106    2198    2267    2336    2500
RE     18    1250    1265    1280    1300    1325    1350    1370    1390    1410
RE   1430    1450    1454    1458    1462    1466    1469    1472    1481
CP      4    8500     400     200
ID RES NO.4
RT      4     213
CP    213   12000
ID C.P. 213
RT    213
ED
BF      2     120                27100100            720
IN      4OCT 1927
IN   1222    1268     497     733     647    1385     999    1365    1308     360
IN    282     176     193     261     481     431    1130    1230     810     283
IN    163     150     208     608     614     553     524     475     760     891
IN    491     575     317     105      94      75      76     102     124     164
IN    669     878     804     367     420     206     145      74      80     133
IN    475     433     530    1106     506     513     276     130      77     429
IN   1205     400     438     526     909    1224     655     348     212    1032
IN   1237     524     385     354     712     139     459    1195     550     307
IN    194     171     513     424     620    1219     566     354    1044     763
IN    545     388    1177     252     187     179     872     697     613     331
IN   3094     820     354     268     126      65      43     140     172     560
IN   1004     859     679    1282     793     364     270     319     224     753
EJ
ER
```

TABLE 26

```
T1              SINGLE RESERVOIR WATER SUPPLY SYSTEM
T2              *OPTIMIZATION OF MONTHLY DIVERSION*      RUN 22
T3              MONTHLY FLOW 1927-1937 RECORD  (120 PERIODS)
J1                1       5       3       4       2
J3      6                                       1
J6  -1.59   -1.54   -2.03   -2.39   -0.52   -0.36   -0.54   -.40    0.02    0.52
J6  -2.63   -2.38
J7    4.4                                                     2       6     .05
J8   4.11    4.13    4.12    4.24    4.09    4.10    4.30    4.03  213.03  213.04
RL      4   71500     300    2000   71500  180200  240000
RO      1     213
RS     18       0     150     580    2000    5380   12020   21410   35560   54300
RS  78340  110690  118140  126000  134200  142800  149700  156500  180200
RQ     18       0     600    1000    9000   10500   12000   13000   14000   15000
RQ  16000   17000   30000   54000   86000  128000  160000  198000  218000
RA     18       0      20      40      80     185     350     587     800    1040
RA   1390    1830    1922    2014    2106    2198    2267    2336    2500
RE     18    1250    1265    1280    1300    1325    1350    1370    1390    1410
RE   1430    1450    1454    1458    1462    1466    1469    1472    1481
CP      4    8500
ID RES NO.4
RT      4     213
DR      4     213                                     0.2       1
QD     12     250     240     220     200     200     200     200     200     200
QD    200     240     250
CP    213   12000     150     100
ID C.P. 213
RT    213
ED
BF      2     120                 27100100             720
IN     4OCT 1927
IN   1222    1268     497     733     647    1385     999    1365    1308     360
IN    282     176     193     261     481     431    1130    1230     810     283
IN    163     150     208     608     614     553     524     475     760     891
IN    491     575     317     105      94      75      76     102     124     164
IN    669     878     804     367     420     206     145      74      80     133
IN    475     433     530    1106     506     513     276     130      77     429
IN   1205     400     438     526     909    1224     655     348     212    1032
IN   1237     524     385     354     712     139     459    1195     550     307
IN    194     171     513     424     620    1219     566     354    1044     763
IN    545     388    1177     252     187     179     872     697     613     331
IN   3094     820     354     268     126      65      43     140     172     560
IN   1004     859     679    1282     793     364     270     319     224     753
EJ
ER
```

TABLE 27

```
T1              SINGLE RESERVOIR WATER SUPPLY SYSTEM
T2              *OPTIMIZATION OF ALL RESERVOIR YIELDS*      RUN 23
T3              MONTHLY FLOW 1927-1937 RECORD  (120 PERIODS)
J1                1       5       3       4       2
J3      6                                       1
J6  -1.59   -1.54   -2.03   -2.39   -0.52   -0.36   -0.54   -.40    0.02    0.52
J6  -2.63   -2.38
J7    4.9                                                     2       6     .05
J8   4.11    4.13    4.12    4.24    4.09    4.10    4.30    4.03  213.03  213.04
RL      4   71500     300    2000   71500  180200  240000
RO      1     213
RS     18       0     150     580    2000    5380   12020   21410   35560   54300
RS  78340  110690  118140  126000  134200  142800  149700  156500  180200
RQ     18       0     600    1000    9000   10500   12000   13000   14000   15000
RQ  16000   17000   30000   54000   86000  128000  160000  198000  218000
RA     18       0      20      40      80     185     350     587     800    1040
RA   1390    1830    1922    2014    2106    2198    2267    2336    2500
RE     18    1250    1265    1280    1300    1325    1350    1370    1390    1410
RE   1430    1450    1454    1458    1462    1466    1469    1472    1481
CP      4    8500
ID RES NO.4
RT      4     213
DR      4     213                                     0.2       1
QD     12     250     240     220     200     200     200     200     200     200
QD    200     240     250
CP    213   12000     150     100
ID C.P. 213
RT    213
ED
BF      2     120                27100100                720
IN      4OCT 1927
IN   1222    1268     497     733     647    1385     999    1365    1308     360
IN    282     176     193     261     481     431    1130    1230     810     283
IN    163     150     208     608     614     553     524     475     760     891
IN    491     575     317     105      94      75      76     102     124     164
IN    669     878     804     367     420     206     145      74      80     133
IN    475     433     530    1106     506     513     276     130      77     429
IN   1205     400     438     526     909    1224     655     348     212    1032
IN   1237     524     385     354     712     139     459    1195     550     307
IN    194     171     513     424     620    1219     566     354    1044     763
IN    545     388    1177     252     187     179     872     697     613     331
IN   3094     820     354     268     126      65      43     140     172     560
IN   1004     859     679    1282     793     364     270     319     224     753
EJ
ER
```

TABLE 28

```
T1      THREE RESERVOIR WATER SUPPLY SYSTEM
T2      * BASIC THREE RESERVOIR SYSTEM *  RUN 24
T3      MONTHLY FLOW RECORD   MAR 1953 - APR 1954 (14 PERIODS)
J1      1       3       6       5       6       2
J2                              16
J3    21
J8   1.14    2.14    3.14    2.31    3.31    4.31    4.08    4.06
RL      1 3070000 1980000 1980000 1980000 3330000 3330000 4210000
RO      1       2
RS      3 1980000 3330000 4210000
RQ      3    1100    1200    1500
CP      1     999
ID RES1
RT      1       2
RL      2 3461000 2590000 2880000 2880000 3320000 3760000 6670000
RO      1       4
RS      3 2590000 3760000 6670000
RQ      3     500    1000    2000
CP      2     380              14
ID RES2
RT      2       4
DR      2                                               1
QD     12       0       0       0     8.5      18      28      21       7       0
QD      0       0       0
RL      3 1417000  970000 1110000 1325000 1540000 1540000 2440000
RO      1       4
RS      3  970000 1540000 2440000
RQ      3     400     600     900
CP      3     255              11
ID RES3
RT      3       4
DR      3                                               1
QD     12       0       0       0       6       7       9       7       2       0
QD      0       0       0
CP      4     765              85
ID C.P. 4
RT      4
DR      4                                               1
QD     12       0       0       0     8.5      18      28      21       7       0
QD      0       0       0
QM    113     113     127     127     142     142     127      85      85      85
QM     85      85
ED
BF      1      14                53030100                720
IN    153   268   230   211    20  20.5   6.5   3.5     4     4     6    17    15
IN    154    47    59
IN    253   134   115   106    10    10     3     2     2     2     3     8   7.5
IN    254    24    30
IN    353   100    78    66    26  18.5    12    11    10    11    11  19.5    24
IN    354    34  30.5
IN    453   349   183   246    44    21  18.5   9.5    18    22    21    59    66
IN    454    58    71
EJ
ER
```

APPENDIX A

OPTIMIZATION OF CONSERVATION STORAGE

APPENDIX A
OPTIMIZATION OF CONSERVATION STORAGE (RUN 18)

This example illustrates the method used by HEC-5 for automatically determining conservation storage for a single reservoir operating for minimum monthly desired flow. The input and output data follows on Tables A-1 through A-5.

The J7 Card is used to request the optimization routine to determine the minimum conservation storage at reservoir 4 (J7.1 = 4.0) needed to meet desired flow requirements during the low-flow period (input in Table A-1).

Conservation storage optimization is based upon the storage volume above top of buffer pool. For each trial the assumed conservation storage is computed by a program determined multiplier times the previous trial's conservation storage (a monthly variation may be input on RL Cards). The trials are repeated until the drawdown storage is within the error limit specified (J7.10). (The HEC-5 optimization routine adds 500,000 acre-ft of storage to all input storage values to avoid working with negative values). Table A-2 shows the optimization routing cycle 1, trial 1.

$$\text{Error} = \frac{\text{target minimum storage minus minimum storage from simulation}}{\text{assumed maximum top-of-construction storage minus target minimum storage}}$$

$$\text{Error} = \frac{(502{,}000) - (426{,}228)}{(571{,}500) - (502{,}000)} = 1.09 \text{ for trial 1}$$

The allowable error is specified on J7.10 ($\pm$.05 in this example.)

The output, Table A-3, provides a listing of minimum runoff volumes plus starting and ending periods of drought durations from 1 to 38 months based on the given inflow data on IN cards since J7.8 = 2. The estimated critical drawdown period of 13 months from period 34 (July 1930) to period 46 (July 1931) is based on 70 times 0.173. The value 0.173 is the ratio of conservation storage to mean annual flow computed by the program (J7.8 = 2). The program extends that period to start at the beginning of a water year (Oct. 1929, period 25) and adds five periods to the end (Dec. 1931, period 51) to increase the chance for including the true critical period. The initial number of periods of inflow used for the critical period simulation is now reduced from 120 monthly values to the estimated 27 months from periods 25 (Oct. 1929) to 51 (Dec. 1931). On a scale beginning with 1 the program identifies period 25 as 1 and period 51 as 27. This identification applies throughout each cycle.

The initial estimates of top-of-conservation storage was specified on the input (RL .5 = 71,500 acre-feet), the initial volume of conservation storage is 69,500 acre-feet (71,500 minus 2000). In order to insure that the reservoir does not compute negative reservoir storages, 500,000 acre-feet is added internally by the program to each reservoir storage. The output listing (Table A-5) of storage volumes has this 500,000 acre-feet added to it.

The summary of all trials (Table A-4) contains the location of the reservoir, trial number, ratio of storage error, storage error, starting date of critical period, average reservoir inflow and release, average spill, top-of-conservation storage (excluding the 500,000 acre-feet added during optimization), ratio of conservation storage to mean annual flow, the period which had the minimum end-of-period storage (year, month), the length of critical period used to determine the adjusting multiplier (period 9 to 26), average release during the critical period, the average desired and required flow, and the average diversion.

For the first routing a period of maximum drawdown within the critical period 1 to 27 is identified by the program (Table A-2). This maximum drawdown period extends from period 9 to period 26 with period 1 representing Oct. 1929.

An initial estimate of 71,500 acre-feet is used for simulating this maximum drawdown period (first end-of-period storage below top-of-conservation storage (period 9) to minimum end-of-period storage (period 26)). A storage multiplier 1.206494 (Table A-2) is determined by the program for periods 9 to 26 then applied to estimate the storage for the second trial.

The initial value of 71,500 acre-feet when routed through the 27 monthly periods (1-27) gave an error ratio of 1.0902 (Table A-4). The second estimate of conservation storage of 86,264 acre-feet (71,500 x 1.206494) produced an error ratio of 0.7225.

The same procedure was repeated for each trial until the error was within the limits specified (.05). In this example the error reached is 0.0151 on the seventh trial (TRIAL = 7).

The estimated conservation storage for trial seven, 143,929 acre-feet, is next routed through the entire low-flow period (120 months) to see if the conservation storage is adequate.

A listing (Table A-5) of the final simulation (120 months) shows the final top of conservation storage value is 643,928 (143,928 + 500,000) acre-feet. Based upon end-of-period storage for the 120 month simulation maximum drawdown period extends from period 33 to 50, the allowable error was .05 (5%) and the final error was 0.0151 (1.5%).

The user designed output (Table A-5) is printed for each simulation, but is only shown for simulation eight here. The minimum end-of-period storage (EOP STOR) was 499,862 acre-feet which was too low for the target minimum storage 502,000 (2,000 + 500,000) acre-feet (error = 1.5%).

TABLE A-1 INPUT DATA FOR OPTIMIZATION OF CONSERVATION STORAGE

```
T1              SINGLE RESERVOIR WATER SUPPLY SYSTEM
T2              *OPTIMIZATION OF CONSERVATION STORAGE *   RUN 18
T3              MONTHLY FLOW 1927-1937 RECORD  (120 PERIODS)
J1                  1       5       3       4       2
J3      6                                       1
J6  -1.59   -1.54   -2.03   -2.39   -0.52   -0.36   -0.54    -.40    0.02    0.52
J6  -2.63   -2.38
J7    4.0                                                       2       6     .05
J8   4.11    4.13    4.12    4.09    4.10    4.05    4.06  213.04

RL      4   71500     300    2000   71500  160500  180200
RO      1     213
RS     18       0     150     580    2000    5380   12020   21410   35560   54300
RS  78340  110690  118140  126000  134200  142800  149700  156500  180200
RQ     18       0     600    1000    9000   10500   12000   13000   14000   15000
RQ  16000   17000   30000   54000   86000  128000  160000  198000  218000
RA     18       0      20      40      80     185     350     587     800    1040
RA   1390    1830    1922    2014    2106    2198    2267    2336    2500
RE     18    1250    1265    1280    1300    1325    1350    1370    1390    1410
RE   1430    1450    1454    1458    1462    1466    1469    1472    1481

CP      4    8500     400
ID RES NO.4
RT      4     213

CP    213   12000
ID C.P. 213
RT    213
ED
BF      2     120                27100100             720
IN     40CT 1927
IN   1222    1268     497     733     647    1385     999    1365    1308     360
IN    282     176     193     261     481     431    1130    1230     810     283
IN    163     150     208     608     614     553     524     475     760     891
IN    491     575     317     105      94      75      76     102     124     164
IN    669     878     804     367     420     206     145      74      80     133
IN    475     433     530    1106     506     513     276     130      77     429
IN   1205     400     438     526     909    1224     655     348     212    1032
IN   1237     524     385     354     712     139     459    1195     550     307
IN    194     171     513     424     620    1219     566     354    1044     763
IN    545     388    1177     252     187     179     872     697     613     331
IN   3094     820     354     268     126      65      43     140     172     560
IN   1004     859     679    1282     793     364     270     319     224     753

EJ
ER
```

TABLE A-2 OPTMIZATION ROUTING CYCLE 1, TRIAL 1

```
**********************************************************************************************************************

*OPTRY

ROUTING CYCLE=       1   OPT TRIAL=       1

       ALL. PERC NEGATIVE ERROR=     0.050  POSITIVE ERROR=    0.0500  IND FOR ONE MORE TRY=       0

       AVG. CRITICAL DRAW DOWN RESULTS FROM PER       9  TO      26

     INFLOW      POW-REL      EL-BTW     DRAW-RAT      DIV-Q      EVAP-P     RELEASE     STORAGE       ELEV       EN-REQ
      268.50         0.00     -601.92        16.30       0.00      -7.57      400.00   488408.22     -601.92         0.00

       AVG. ROUTING PERIOD RESULTS FROM PER       1  TO      27

     INFLOW      POW-REL       HEAD     DRAW-RAT     QSPILL    TAILWATER    RELEASE     H.TOP-C     H-BOT-C
      377.44         0.00       0.00         1.00      63.17         0.00      463.17     1424.31     1300.00


 OP TRIAL  ERROR-RAT ERR-STG   TAR-MIN-STG MIN-STG PER-MIN-STG TOP-STG   LOC.TYP
         1  1.090246   -75772.   502000.   426228.        26   571500.      4.00
** *********                                                                          ********************


ANN DES Q ANN REQ Q ANN DIV Q     INS CAP  ANN FIRM E   AVG ANN E
    400.0      0.00      0.00          0.          0.          0.

  ITYOPT=       0  MULTIPLIER=       1.206494

    ASSUMED   NEXT-ASSUM        PTWO        EST3   ER-IMPROVE   EST-BOUND       BNDMAX       BNDMIN   ERR-BN-MAX   ERR-BN-MIN
  571500.00    586264.34        0.00    586264.34         1.00         0.00 100000000.00    571500.00         0.00    -75772.07

*RTCOF


ROUTING COEFFICIENTS FROM RES       4 TO MY
MY=   213 1.0000
**********************************************************************************************************************
```

TABLE A-3 STARTING AND ENDING PERIODS FOR LOW-FLOW DURATIONS

DUR	VOL-DUR	PER-START	PER-END	Q-RIVER	Q+QSTOR	EST-STG	DEP CAP
1.	43.	107.	107.	43.	1194.	21553.	0.
2.	108.	106.	107.	54.	630.	41778.	0.
3.	234.	105.	107.	78.	462.	58320.	0.
4.	347.	35.	38.	87.	375.	75647.	0.
5.	452.	34.	38.	90.	321.	93457.	0.
6.	576.	34.	39.	96.	288.	110120.	0.
7.	740.	34.	40.	106.	270.	124368.	0.
8.	1057.	33.	40.	132.	276.	129379.	0.
9.	1632.	32.	40.	181.	309.	118814.	0.
10.	2123.	31.	40.	212.	327.	113320.	0.
11.	2792.	31.	41.	254.	358.	97079.	0.
12.	3670.	31.	42.	306.	402.	68221.	0.
13.	4084.	34.	46.	314.	403.	67376.	0.
14.	4184.	36.	49.	299.	381.	85488.	0.
15.	4278.	35.	49.	285.	362.	103962.	0.
16.	4383.	34.	49.	274.	346.	121772.	0.
17.	4516.	34.	50.	266.	333.	137891.	0.
18.	4833.	33.	50.	269.	332.	142902.	0.
19.	5308.	33.	51.	279.	340.	138374.	0.
20.	5741.	33.	52.	287.	345.	136382.	0.
21.	6271.	33.	53.	299.	353.	128534.	0.
22.	6807.	31.	52.	309.	362.	120323.	0.
23.	7337.	31.	53.	319.	369.	112474.	0.
24.	8228.	30.	53.	343.	391.	82831.	0.
25.	8457.	35.	59.	338.	384.	93155.	0.
26.	8562.	34.	59.	329.	374.	110965.	0.
27.	8879.	33.	59.	329.	371.	115976.	0.
28.	9308.	33.	60.	332.	374.	114225.	0.
29.	9883.	32.	60.	341.	380.	103660.	0.
30.	10374.	31.	60.	346.	384.	98166.	0.
31.	11128.	20.	50.	359.	396.	76794.	0.
32.	11603.	20.	51.	363.	399.	72266.	0.
33.	12036.	20.	52.	365.	400.	70274.	0.
34.	12566.	20.	53.	370.	403.	62425.	0.
35.	13376.	19.	53.	382.	415.	37673.	0.
36.	14178.	20.	55.	394.	426.	13403.	0.
37.	14578.	23.	59.	394.	425.	13403.	0.
38.	14728.	22.	59.	388.	418.	28496.	0.
13.	4084.	34.	46.	314.	403.	67376.	0.

START-PER	END-PER	DATE
25	51	29100100.

CON-STG	QMEAN	RAT-STG/Q	DRAW-DUR	APPROX. DEP CAP.
69500.	554.	0.173	13.	0.

TABLE A-4 OPTIMIZATION SUMMARY

```
*OPSUM
          T1          SINGLE RESERVOIR WATER SUPPLY SYSTEM
          T2          *OPTIMIZATION OF CONSERVATION STORAGE *   RUN 18
          T3          MONTHLY FLOW 1927-1937 RECORD  (120 PERIODS)

          J7  4.00    0.00    0.00    0.00    0.00    0.00    0.00    2.00    6.00    0.05
```

LOCATION	TRIAL	ERROR RATIO	ERROR (STG)	NUM. PERIODS	ROUTING ST PER	AVG INF.	AVG REL	AVG SPILL	TOP.CON STOR.	RATIO STG/Q	DRAW ST PER	DRAW LENGTH	DRAW AV REL LOC=	ANNUAL DES Q 4	ANNUAL REQ Q 4	ANNUAL DIV 4
SINGLE RES	1	1.0902	-75772.	27	1929.10	377.	463.	63.	71500.	0.1731	1930.06	18.	400.	400.	0.	0.
SINGLE RES	2	0.7225	-60883.	27	1929.10	377.	463.	63.	86264.	0.2099	1930.06	18.	400.	400.	0.	0.
SINGLE RES	3	0.4790	-46955.	27	1929.10	377.	463.	63.	100019.	0.2442	1930.06	18.	400.	400.	0.	0.
SINGLE RES	4	0.3173	-34863.	27	1929.10	377.	464.	64.	111886.	0.2737	1930.06	18.	400.	400.	0.	0.
SINGLE RES	5	0.3573	79242.	27	1929.10	377.	464.	64.	223772.	0.5525	1930.06	18.	400.	400.	0.	0.
SINGLE RES	6	0.0642	-8707.	27	1929.10	377.	464.	64.	137525.	0.3376	1930.06	18.	400.	400.	0.	0.
SINGLE RES	7	0.0151	-2138.	27	1929.10	377.	464.	64.	143929.	0.3536	1930.06	18.	400.	400.	0.	0.
SINGLE RES	1	0.0151	-2138.	120	1927.10	554.	556.	156.	143929.	0.3536	1930.06	18.	400.	400.	0.	0.

TABLE A-5 SIMULATION SUMMARY FOR ALL PERIODS

SUMMARY BY PERIOD FLOOD= 8

LOC NO=					4.	4.	4.	4.	4.	4.	4.	213.		
CODE=					4.110	4.130	4.120	4.090	4.100	4.050	4.060	213.040	0.000	0.000
PER	DY	MO	YR	DW	RES NO.4 EOP STOR	RES NO.4 LEVEL	RES NO.4 CASE	RES NO.4 INFLOW	RES NO.4 OUTFLOW	RES NO.4 MIN DESI	RES NO.4 DEQ-SHOR	C.P. 213 FLOW REQ		
1	1	10	27	1	643928.69	3.00	0.03	1222.00	1220.44	400.00	0.00	1220.44		
2	1	11	27	1	643928.69	3.00	0.03	1268.00	1276.14	400.00	0.00	1276.14		
3	1	12	27	1	643928.69	3.00	0.03	497.00	504.13	400.00	0.00	504.13		
4	1	1	28	1	643928.69	3.00	0.03	733.00	737.76	400.00	0.00	737.76		
5	1	2	28	1	643928.69	3.00	0.03	647.00	651.93	400.00	0.00	651.93		
6	1	3	28	1	643928.69	3.00	0.03	1385.00	1391.08	400.00	0.00	1391.08		
7	1	4	28	1	643928.69	3.00	0.03	999.00	1006.39	400.00	0.00	1006.39		
8	1	5	28	1	643928.69	3.00	0.03	1365.00	1366.56	400.00	0.00	1366.56		
9	1	6	28	1	643928.69	3.00	0.03	1308.00	1309.11	400.00	0.00	1309.11		
10	1	7	28	1	641568.04	3.00	0.00	360.00	400.00	400.00	0.00	400.00		
11	1	8	28	1	634383.94	2.99	0.00	282.00	400.00	400.00	0.00	400.00		
12	1	9	28	1	621051.43	2.96	0.00	176.00	400.00	400.00	0.00	400.00		
13	1	10	28	1	608241.89	2.94	0.00	193.00	400.00	400.00	0.00	400.00		
14	1	11	28	1	600352.72	2.93	0.00	261.00	400.00	400.00	0.00	400.00		
15	1	12	28	1	605675.53	2.94	0.00	481.00	400.00	400.00	0.00	400.00		
16	1	1	29	1	607817.04	2.94	0.00	431.00	400.00	400.00	0.00	400.00		
17	1	2	29	1	643928.69	3.00	0.03	1130.00	484.44	400.00	0.00	484.44		
18	1	3	29	1	643928.69	3.00	0.03	1230.00	1236.08	400.00	0.00	1236.08		
19	1	4	29	1	643928.69	3.00	0.03	810.00	817.39	400.00	0.00	817.39		
20	1	5	29	1	636828.66	2.99	0.00	283.00	400.00	400.00	0.00	400.00		
21	1	6	29	1	622787.68	2.97	0.00	163.00	400.00	400.00	0.00	400.00		
22	1	7	29	1	607500.38	2.94	0.00	150.00	400.00	400.00	0.00	400.00		
23	1	8	29	1	595751.48	2.93	0.00	208.00	400.00	400.00	0.00	400.00		
24	1	9	29	1	608125.66	2.94	0.00	608.00	400.00	400.00	0.00	400.00		
25	1	10	29	1	621202.78	2.96	0.00	614.00	400.00	400.00	0.00	400.00		
26	1	11	29	1	630748.38	2.98	0.00	553.00	400.00	400.00	0.00	400.00		
27	1	12	29	1	638791.85	2.99	0.00	524.00	400.00	400.00	0.00	400.00		
28	1	1	30	1	643692.52	3.00	0.00	475.00	400.00	400.00	0.00	400.00		
29	1	2	30	1	643928.69	3.00	0.03	760.00	760.85	400.00	0.00	760.85		
30	1	3	30	1	643928.69	3.00	0.03	891.00	897.08	400.00	0.00	897.08		
31	1	4	30	1	643928.69	3.00	0.03	491.00	498.39	400.00	0.00	498.39		
32	1	5	30	1	643928.69	3.00	0.03	575.00	576.56	400.00	0.00	576.56		
33	1	6	30	1	639055.30	2.99	0.00	317.00	400.00	400.00	0.00	400.00		
34	1	7	30	1	621008.85	2.96	0.00	105.00	400.00	400.00	0.00	400.00		
35	1	8	30	1	602254.76	2.94	0.00	94.00	400.00	400.00	0.00	400.00		
36	1	9	30	1	582913.00	2.91	0.00	75.00	400.00	400.00	0.00	400.00		
37	1	10	30	1	562933.91	2.87	0.00	76.00	400.00	400.00	0.00	400.00		
38	1	11	30	1	545429.02	2.85	0.00	102.00	400.00	400.00	0.00	400.00		
39	1	12	30	1	528620.58	2.82	0.00	124.00	400.00	400.00	0.00	400.00		
40	1	1	31	1	514187.05	2.80	0.00	164.00	400.00	400.00	0.00	400.00		
41	1	2	31	1	529202.65	2.82	0.00	669.00	400.00	400.00	0.00	400.00		
42	1	3	31	1	558747.72	2.87	0.00	878.00	400.00	400.00	0.00	400.00		
43	1	4	31	1	583042.99	2.91	0.00	804.00	400.00	400.00	0.00	400.00		
44	1	5	31	1	581076.30	2.90	0.00	367.00	400.00	400.00	0.00	400.00		
45	1	6	31	1	582309.47	2.90	0.00	420.00	400.00	400.00	0.00	400.00		

TABLE A-5 (CONTINUED)

LOC NO=					4.	4.	4.	4.	4.	4.	4.	213.
PER	DY	MO	YR	DW	RES NO.4 EOP STOR	RES NO.4 LEVEL	RES NO.4 CASE	RES NO.4 INFLOW	RES NO.4 OUTFLOW	RES NO.4 MIN DESI	RES NO.4 DEQ-SHOR	C.P. 213 FLOW REG
46	1	7	31	1	570441.96	2.89	0.00	206.00	400.00	400.00	0.00	400.00
47	1	8	31	1	554801.10	2.86	0.00	145.00	400.00	400.00	0.00	400.00
48	1	9	31	1	535400.93	2.83	0.00	74.00	400.00	400.00	0.00	400.00
49	1	10	31	1	515696.48	2.80	0.00	80.00	400.00	400.00	0.00	400.00
50	1	11	31	1	499862.25	2.78	0.00	133.00	400.00	400.00	0.00	400.00
51	1	12	31	1	504490.85	2.78	0.00	475.00	400.00	400.00	0.00	400.00
52	1	1	32	1	506544.93	2.79	0.00	433.00	400.00	400.00	0.00	400.00
53	1	2	32	1	514062.17	2.80	0.00	530.00	400.00	400.00	0.00	400.00
54	1	3	32	1	557608.98	2.87	0.00	1106.00	400.00	400.00	0.00	400.00
55	1	4	32	1	564142.71	2.88	0.00	506.00	400.00	400.00	0.00	400.00
56	1	5	32	1	571144.40	2.89	0.00	513.00	400.00	400.00	0.00	400.00
57	1	6	32	1	563802.73	2.88	0.00	276.00	400.00	400.00	0.00	400.00
58	1	7	32	1	547248.44	2.85	0.00	130.00	400.00	400.00	0.00	400.00
59	1	8	32	1	527415.08	2.82	0.00	77.00	400.00	400.00	0.00	400.00
60	1	9	32	1	529139.57	2.82	0.00	429.00	400.00	400.00	0.00	400.00
61	1	10	32	1	578592.99	2.90	0.00	1205.00	400.00	400.00	0.00	400.00
62	1	11	32	1	578898.84	2.90	0.00	400.00	400.00	400.00	0.00	400.00
63	1	12	32	1	581516.13	2.90	0.00	438.00	400.00	400.00	0.00	400.00
64	1	1	33	1	589460.73	2.92	0.00	526.00	400.00	400.00	0.00	400.00
65	1	2	33	1	617952.24	2.96	0.00	909.00	400.00	400.00	0.00	400.00
66	1	3	33	1	643928.69	3.00	0.03	1224.00	807.23	400.00	0.00	807.23
67	1	4	33	1	643928.69	3.00	0.03	655.00	662.39	400.00	0.00	662.39
68	1	5	33	1	640826.34	3.00	0.00	348.00	400.00	400.00	0.00	400.00
69	1	6	33	1	629702.92	2.98	0.00	212.00	400.00	400.00	0.00	400.00
70	1	7	33	1	643928.69	3.00	0.03	1032.00	802.21	400.00	0.00	802.21
71	1	8	33	1	643928.69	3.00	0.03	1237.00	1238.20	400.00	0.00	1238.20
72	1	9	33	1	643928.69	3.00	0.03	524.00	523.94	400.00	0.00	523.94
73	1	10	33	1	642910.85	3.00	0.00	385.00	400.00	400.00	0.00	400.00
74	1	11	33	1	640652.96	2.99	0.00	354.00	400.00	400.00	0.00	400.00
75	1	12	33	1	643928.69	3.00	0.03	712.00	665.80	400.00	0.00	665.80
76	1	1	34	1	628161.85	2.98	0.00	139.00	400.00	400.00	0.00	400.00
77	1	2	34	1	631702.72	2.98	0.00	459.00	400.00	400.00	0.00	400.00
78	1	3	34	1	643928.69	3.00	0.03	1195.00	1002.07	400.00	0.00	1002.07
79	1	4	34	1	643928.69	3.00	0.03	550.00	557.39	400.00	0.00	557.39
80	1	5	34	1	638304.73	2.99	0.00	307.00	400.00	400.00	0.00	400.00
81	1	6	34	1	626109.21	2.97	0.00	194.00	400.00	400.00	0.00	400.00
82	1	7	34	1	612115.34	2.95	0.00	171.00	400.00	400.00	0.00	400.00
83	1	8	34	1	619126.57	2.96	0.00	513.00	400.00	400.00	0.00	400.00
84	1	9	34	1	620551.45	2.96	0.00	424.00	400.00	400.00	0.00	400.00
85	1	10	34	1	633991.03	2.98	0.00	620.00	400.00	400.00	0.00	400.00
86	1	11	34	1	643928.69	3.00	0.03	1219.00	1059.94	400.00	0.00	1059.94
87	1	12	34	1	643928.69	3.00	0.03	566.00	573.13	400.00	0.00	573.13
88	1	1	35	1	641391.26	3.00	0.00	354.00	400.00	400.00	0.00	400.00
89	1	2	35	1	643928.69	3.00	0.03	1044.00	1003.39	400.00	0.00	1003.39
90	1	3	35	1	643928.69	3.00	0.03	763.00	769.08	400.00	0.00	769.08
91	1	4	35	1	643928.69	3.00	0.03	545.00	552.39	400.00	0.00	552.39
92	1	5	35	1	643286.42	3.00	0.00	388.00	400.00	400.00	0.00	400.00

TABLE A-5 (CONTINUED)

LOC NO=					4.	4.	4.	4.	4.	4.	4.	213.
PER	DY	MO	YR	DW	RES NO.4 EOP STOR	RES NO.4 LEVEL	RES NO.4 CASE	RES NO.4 INFLOW	RES NO.4 OUTFLOW	RES NO.4 MIN DESI	RES NO.4 DEQ-SHOR	C.P. 213 FLOW REG
93	1	6	35	1	643928.69	3.00	0.03	1177.00	1167.32	400.00	0.00	1167.32
94	1	7	35	1	634925.68	2.99	0.00	252.00	400.00	400.00	0.00	400.00
95	1	8	35	1	621896.66	2.97	0.00	187.00	400.00	400.00	0.00	400.00
96	1	9	35	1	608742.91	2.95	0.00	179.00	400.00	400.00	0.00	400.00
97	1	10	35	1	637679.63	2.99	0.00	872.00	400.00	400.00	0.00	400.00
98	1	11	35	1	643928.69	3.00	0.03	697.00	600.00	400.00	0.00	600.00
99	1	12	35	1	643928.69	3.00	0.03	613.00	620.13	400.00	0.00	620.13
100	1	1	36	1	639976.02	2.99	0.00	331.00	400.00	400.00	0.00	400.00
101	1	2	36	1	643928.69	3.00	0.03	3094.00	3030.17	400.00	0.00	3030.17
102	1	3	36	1	643928.69	3.00	0.03	820.00	826.08	400.00	0.00	826.08
103	1	4	36	1	641629.18	3.00	0.00	354.00	400.00	400.00	0.00	400.00
104	1	5	36	1	633605.55	2.98	0.00	268.00	400.00	400.00	0.00	400.00
105	1	6	36	1	617361.41	2.96	0.00	126.00	400.00	400.00	0.00	400.00
106	1	7	36	1	596842.92	2.93	0.00	65.00	400.00	400.00	0.00	400.00
107	1	8	36	1	574941.28	2.89	0.00	43.00	400.00	400.00	0.00	400.00
108	1	9	36	1	559467.94	2.87	0.00	140.00	400.00	400.00	0.00	400.00
109	1	10	36	1	545404.53	2.85	0.00	172.00	400.00	400.00	0.00	400.00
110	1	11	36	1	555141.96	2.86	0.00	560.00	400.00	400.00	0.00	400.00
111	1	12	36	1	592543.71	2.92	0.00	1004.00	400.00	400.00	0.00	400.00
112	1	1	37	1	621002.35	2.96	0.00	859.00	400.00	400.00	0.00	400.00
113	1	2	37	1	636760.06	2.99	0.00	679.00	400.00	400.00	0.00	400.00
114	1	3	37	1	643928.69	3.00	0.03	1282.00	1171.39	400.00	0.00	1171.39
115	1	4	37	1	643928.69	3.00	0.03	793.00	800.39	400.00	0.00	800.39
116	1	5	37	1	641810.38	3.00	0.00	364.00	400.00	400.00	0.00	400.00
117	1	6	37	1	634139.12	2.98	0.00	270.00	400.00	400.00	0.00	400.00
118	1	7	37	1	629252.06	2.98	0.00	319.00	400.00	400.00	0.00	400.00
119	1	8	37	1	618496.39	2.96	0.00	224.00	400.00	400.00	0.00	400.00
120	1	9	37	1	639498.24	2.99	0.00	753.00	400.00	400.00	0.00	400.00
			SUM =		73274909.54	353.79	1.08	66490.00	66766.96	48000.00	0.00	66766.96
			MAX =		643928.69	3.00	0.03	3094.00	3030.17	400.00	0.00	3030.17
			MIN =		499862.25	2.78	0.00	43.00	400.00	400.00	0.00	400.00
			PMAX=		4.00	4.00	1.00	101.00	101.00	1.00	1.00	101.00
			AVG =		610624.25	2.95	0.01	554.08	556.39	400.00	0.00	556.39
			PMIN=		50.00	50.00	10.00	107.00	10.00	1.00	1.00	10.00

APPENDIX B

SELECTED OUTPUT FOR RUNS 1-24

RUN1 - SUMMARY OUTPUT

SUMMARY BY PERIOD FLOOD= 1

LOC NO=					4.	4.	4.	4.	4.	213.	213.	213.	213.	213.
CODE=					4.110	4.220	4.130	4.120	4.100	213.050	213.060	213.070	213.080	213.040
PER	DY	MO	YR	DW	RES NO.4 EOP STOR	RES NO.4 EOP ELEV	RES NO.4 LEVEL	RES NO.4 CASE	RES NO.4 OUTFLOW	C.P. 213 MIN DESI	C.P. 213 DEQ-SHOR	C.P. 213 MIN REQU	C.P. 213 REQ-SHOR	C.P. 213 FLOW REG
1	1	10	27	1	71500.00	1424.31	3.00	0.03	1221.09	400.00	0.00	100.00	0.00	1221.09
2	1	11	27	1	71500.00	1424.31	3.00	0.03	1272.75	400.00	0.00	100.00	0.00	1272.75
3	1	12	27	1	71500.00	1424.31	3.00	0.03	501.16	400.00	0.00	100.00	0.00	501.16
4	1	1	28	1	71500.00	1424.31	3.00	0.03	735.78	400.00	0.00	100.00	0.00	735.78
5	1	2	28	1	71500.00	1424.31	3.00	0.03	649.88	400.00	0.00	100.00	0.00	649.88
6	1	3	28	1	71500.00	1424.31	3.00	0.03	1388.55	400.00	0.00	100.00	0.00	1388.55
7	1	4	28	1	71500.00	1424.31	3.00	0.03	1003.32	400.00	0.00	100.00	0.00	1003.32
8	1	5	28	1	71500.00	1424.31	3.00	0.03	1365.91	400.00	0.00	100.00	0.00	1365.91
9	1	6	28	1	71500.00	1424.31	3.00	0.03	1308.65	400.00	0.00	100.00	0.00	1308.65
10	1	7	28	1	69097.74	1422.31	2.97	213.00	400.00	400.00	0.00	100.00	0.00	400.00
11	1	8	28	1	61882.20	1416.31	2.86	213.00	400.00	400.00	0.00	100.00	0.00	400.00
12	1	9	28	1	48551.32	1403.86	2.67	213.00	400.00	400.00	0.00	100.00	0.00	400.00
13	1	10	28	1	35784.87	1390.24	2.49	213.00	400.00	400.00	0.00	100.00	0.00	400.00
14	1	11	28	1	27676.37	1378.86	2.37	213.00	400.00	400.00	0.00	100.00	0.00	400.00
15	1	12	28	1	32799.72	1386.10	2.44	213.00	400.00	400.00	0.00	100.00	0.00	400.00
16	1	1	29	1	34808.36	1388.94	2.47	213.00	400.00	400.00	0.00	100.00	0.00	400.00
17	1	2	29	1	71500.00	1424.31	3.00	0.03	471.71	400.00	0.00	100.00	0.00	471.71
18	1	3	29	1	71500.00	1424.31	3.00	0.03	1233.55	400.00	0.00	100.00	0.00	1233.55
19	1	4	29	1	71500.00	1424.31	3.00	0.03	814.32	400.00	0.00	100.00	0.00	814.32
20	1	5	29	1	64359.51	1418.37	2.90	213.00	400.00	400.00	0.00	100.00	0.00	400.00
21	1	6	29	1	50289.35	1405.72	2.69	213.00	400.00	400.00	0.00	100.00	0.00	400.00
22	1	7	29	1	34957.29	1389.15	2.47	213.00	400.00	400.00	0.00	100.00	0.00	400.00
23	1	8	29	1	23174.91	1372.49	2.30	213.00	400.00	400.00	0.00	100.00	0.00	400.00
24	1	9	29	1	35550.77	1389.99	2.48	213.00	400.00	400.00	0.00	100.00	0.00	400.00
25	1	10	29	1	48671.01	1403.99	2.67	213.00	400.00	400.00	0.00	100.00	0.00	400.00
26	1	11	29	1	58000.50	1413.08	2.81	213.00	400.00	400.00	0.00	100.00	0.00	400.00
27	1	12	29	1	65853.36	1419.61	2.92	213.00	400.00	400.00	0.00	100.00	0.00	400.00
28	1	1	30	1	70629.70	1423.59	2.99	213.00	400.00	400.00	0.00	100.00	0.00	400.00
29	1	2	30	1	71500.00	1424.31	3.00	0.03	747.30	400.00	0.00	100.00	0.00	747.30
30	1	3	30	1	71500.00	1424.31	3.00	0.03	894.55	400.00	0.00	100.00	0.00	894.55
31	1	4	30	1	71500.00	1424.31	3.00	0.03	495.32	400.00	0.00	100.00	0.00	495.32
32	1	5	30	1	71500.00	1424.31	3.00	0.03	575.91	400.00	0.00	100.00	0.00	575.91
33	1	6	30	1	66598.73	1420.23	2.93	213.00	400.00	400.00	0.00	100.00	0.00	400.00
34	1	7	30	1	48508.55	1403.82	2.67	213.00	400.00	400.00	0.00	100.00	0.00	400.00
35	1	8	30	1	29721.25	1381.75	2.40	213.00	400.00	400.00	0.00	100.00	0.00	400.00
36	1	9	30	1	10381.21	1343.83	2.12	213.00	400.00	400.00	0.00	100.00	0.00	400.00
37	1	10	30	1	2000.00	1300.00	2.00	213.00	212.16	400.00	187.84	100.00	0.00	212.16
38	1	11	30	1	2000.00	1300.00	2.00	213.00	102.29	400.00	297.71	100.00	0.00	102.29
39	1	12	30	1	2000.00	1300.00	2.00	213.00	124.26	400.00	275.74	100.00	0.00	124.26
40	1	1	31	1	2000.00	1300.00	2.00	213.00	164.17	400.00	235.83	100.00	0.00	164.17
41	1	2	31	1	16976.57	1360.56	2.22	213.00	400.00	400.00	0.00	100.00	0.00	400.00
42	1	3	31	1	46493.66	1401.67	2.64	213.00	400.00	400.00	0.00	100.00	0.00	400.00

RUN1 (CONTINUED)

LOC NO=					4.	4.	4.	4.	4.	213.	213.	213.	213.	213.
PER	DY	MO	YR	DW	RES NO.4 EOP STOR	RES NO.4 EOP ELEV	RES NO.4 LEVEL	RES NO.4 CASE	RES NO.4 OUTFLOW	C.P. 213 MIN DESI	C.P. 213 DEQ-SHOR	C.P. 213 MIN REQU	C.P. 213 REQ-SHOR	C.P. 213 FLOW REG
43	1	4	31	1	70753.35	1423.69	2.99	213.00	400.00	400.00	0.00	100.00	0.00	400.00
44	1	5	31	1	68779.06	1422.05	2.96	213.00	400.00	400.00	0.00	100.00	0.00	400.00
45	1	6	31	1	70006.95	1423.07	2.98	213.00	400.00	400.00	0.00	100.00	0.00	400.00
46	1	7	31	1	58131.38	1413.19	2.81	213.00	400.00	400.00	0.00	100.00	0.00	400.00
47	1	8	31	1	42484.77	1397.39	2.58	213.00	400.00	400.00	0.00	100.00	0.00	400.00
48	1	9	31	1	23084.88	1372.37	2.30	213.00	400.00	400.00	0.00	100.00	0.00	400.00
49	1	10	31	1	3392.06	1310.30	2.02	213.00	400.00	400.00	0.00	100.00	0.00	400.00
50	1	11	31	1	2000.00	1300.00	2.00	213.00	156.77	400.00	243.23	100.00	0.00	156.77
51	1	12	31	1	6641.80	1329.75	2.07	213.00	400.00	400.00	0.00	100.00	0.00	400.00
52	1	1	32	1	8702.98	1337.51	2.10	213.00	400.00	400.00	0.00	100.00	0.00	400.00
53	1	2	32	1	16227.14	1358.96	2.20	213.00	400.00	400.00	0.00	100.00	0.00	400.00
54	1	3	32	1	59778.64	1414.56	2.83	213.00	400.00	400.00	0.00	100.00	0.00	400.00
55	1	4	32	1	66318.68	1420.00	2.93	213.00	400.00	400.00	0.00	100.00	0.00	400.00
56	1	5	32	1	71500.00	1424.31	3.00	0.03	429.62	400.00	0.00	100.00	0.00	429.62
57	1	6	32	1	64158.49	1418.20	2.89	213.00	400.00	400.00	0.00	100.00	0.00	400.00
58	1	7	32	1	47604.43	1402.85	2.66	213.00	400.00	400.00	0.00	100.00	0.00	400.00
59	1	8	32	1	27771.22	1378.99	2.37	213.00	400.00	400.00	0.00	100.00	0.00	400.00
60	1	9	32	1	29495.71	1381.43	2.40	213.00	400.00	400.00	0.00	100.00	0.00	400.00
61	1	10	32	1	71500.00	1424.31	3.00	0.03	521.18	400.00	0.00	100.00	0.00	521.18
62	1	11	32	1	71500.00	1424.31	3.00	0.03	404.75	400.00	0.00	100.00	0.00	404.75
63	1	12	32	1	71500.00	1424.31	3.00	0.03	442.16	400.00	0.00	100.00	0.00	442.16
64	1	1	33	1	71500.00	1424.31	3.00	0.03	528.78	400.00	0.00	100.00	0.00	528.78
65	1	2	33	1	71500.00	1424.31	3.00	0.03	911.98	400.00	0.00	100.00	0.00	911.98
66	1	3	33	1	71500.00	1424.31	3.00	0.03	1227.55	400.00	0.00	100.00	0.00	1227.55
67	1	4	33	1	71500.00	1424.31	3.00	0.03	659.32	400.00	0.00	100.00	0.00	659.32
68	1	5	33	1	68357.52	1421.70	2.95	213.00	400.00	400.00	0.00	100.00	0.00	400.00
69	1	6	33	1	57205.49	1412.42	2.79	213.00	400.00	400.00	0.00	100.00	0.00	400.00
70	1	7	33	1	71500.00	1424.31	3.00	0.03	800.39	400.00	0.00	100.00	0.00	800.39
71	1	8	33	1	71500.00	1424.31	3.00	0.03	1237.70	400.00	0.00	100.00	0.00	1237.70
72	1	9	33	1	71500.00	1424.31	3.00	0.03	523.96	400.00	0.00	100.00	0.00	523.96
73	1	10	33	1	70522.06	1423.50	2.99	213.00	400.00	400.00	0.00	100.00	0.00	400.00
74	1	11	33	1	68060.60	1421.45	2.95	213.00	400.00	400.00	0.00	100.00	0.00	400.00
75	1	12	33	1	71500.00	1424.31	3.00	0.03	660.15	400.00	0.00	100.00	0.00	660.15
76	1	1	34	1	55607.15	1411.09	2.77	213.00	400.00	400.00	0.00	100.00	0.00	400.00
77	1	2	34	1	59022.99	1413.93	2.82	213.00	400.00	400.00	0.00	100.00	0.00	400.00
78	1	3	34	1	71500.00	1424.31	3.00	0.03	995.38	400.00	0.00	100.00	0.00	995.38
79	1	4	34	1	71500.00	1424.31	3.00	0.03	554.32	400.00	0.00	100.00	0.00	554.32
80	1	5	34	1	65835.70	1419.60	2.92	213.00	400.00	400.00	0.00	100.00	0.00	400.00
81	1	6	34	1	53611.24	1409.26	2.74	213.00	400.00	400.00	0.00	100.00	0.00	400.00
82	1	7	34	1	39572.73	1394.28	2.54	213.00	400.00	400.00	0.00	100.00	0.00	400.00
83	1	8	34	1	46550.80	1401.73	2.64	213.00	400.00	400.00	0.00	100.00	0.00	400.00
84	1	9	34	1	47977.34	1403.25	2.66	213.00	400.00	400.00	0.00	100.00	0.00	400.00
85	1	10	34	1	61459.48	1415.96	2.86	213.00	400.00	400.00	0.00	100.00	0.00	400.00
86	1	11	34	1	71500.00	1424.31	3.00	0.03	1054.75	400.00	0.00	100.00	0.00	1054.75
87	1	12	34	1	71500.00	1424.31	3.00	0.03	570.16	400.00	0.00	100.00	0.00	570.16
88	1	1	35	1	68839.94	1422.10	2.96	213.00	400.00	400.00	0.00	100.00	0.00	400.00
89	1	2	35	1	71500.00	1424.31	3.00	0.03	999.04	400.00	0.00	100.00	0.00	999.04
90	1	3	35	1	71500.00	1424.31	3.00	0.03	766.55	400.00	0.00	100.00	0.00	766.55

RUN1 (CONTINUED)

LOC NO=						4.	4.	4.	4.	4.	213.	213.	213.	213.	213.
PER	DY	MO	YR	DW		RES NO.4 EOP STOR	RES NO.4 EOP ELEV	RES NO.4 LEVEL	RES NO.4 CASE	RES NO.4 OUTFLOW	C.P. 213 MIN DESI	C.P. 213 DEQ-SHOR	C.P. 213 MIN REQU	C.P. 213 REQ-SHOR	C.P. 213 FLOW REG
91	1	4	35	1		71500.00	1424.31	3.00	0.03	549.32	400.00	0.00	100.00	0.00	549.32
92	1	5	35	1		70817.84	1423.74	2.99	213.00	400.00	400.00	0.00	100.00	0.00	400.00
93	1	6	35	1		71500.00	1424.31	3.00	0.03	1166.18	400.00	0.00	100.00	0.00	1166.18
94	1	7	35	1		62454.81	1416.78	2.87	213.00	400.00	400.00	0.00	100.00	0.00	400.00
95	1	8	35	1		49393.21	1404.76	2.68	213.00	400.00	400.00	0.00	100.00	0.00	400.00
96	1	9	35	1		36241.12	1390.73	2.49	213.00	400.00	400.00	0.00	100.00	0.00	400.00
97	1	10	35	1		65220.60	1419.09	2.91	213.00	400.00	400.00	0.00	100.00	0.00	400.00
98	1	11	35	1		71500.00	1424.31	3.00	0.03	596.06	400.00	0.00	100.00	0.00	596.06
99	1	12	35	1		71500.00	1424.31	3.00	0.03	617.16	400.00	0.00	100.00	0.00	617.16
100	1	1	36	1		67424.34	1420.92	2.94	213.00	400.00	400.00	0.00	100.00	0.00	400.00
101	1	2	36	1		71500.00	1424.31	3.00	0.03	3025.96	400.00	0.00	100.00	0.00	3025.96
102	1	3	36	1		71500.00	1424.31	3.00	0.03	823.55	400.00	0.00	100.00	0.00	823.55
103	1	4	36	1		69016.18	1422.24	2.96	213.00	400.00	400.00	0.00	100.00	0.00	400.00
104	1	5	36	1		60951.50	1415.53	2.85	213.00	400.00	400.00	0.00	100.00	0.00	400.00
105	1	6	36	1		44677.76	1399.73	2.61	213.00	400.00	400.00	0.00	100.00	0.00	400.00
106	1	7	36	1		24114.33	1373.82	2.32	213.00	400.00	400.00	0.00	100.00	0.00	400.00
107	1	8	36	1		2175.54	1301.30	2.00	213.00	400.00	400.00	0.00	100.00	0.00	400.00
108	1	9	36	1		2000.00	1300.00	2.00	213.00	142.95	400.00	257.05	100.00	0.00	142.95
109	1	10	36	1		2000.00	1300.00	2.00	213.00	171.94	400.00	228.06	100.00	0.00	171.94
110	1	11	36	1		11568.99	1348.30	2.14	213.00	400.00	400.00	0.00	100.00	0.00	400.00
111	1	12	36	1		48850.74	1404.18	2.67	213.00	400.00	400.00	0.00	100.00	0.00	400.00
112	1	1	37	1		71500.00	1424.31	3.00	0.03	493.08	400.00	0.00	100.00	0.00	493.08
113	1	2	37	1		71500.00	1424.31	3.00	0.03	681.98	400.00	0.00	100.00	0.00	681.98
114	1	3	37	1		71500.00	1424.31	3.00	0.03	1285.55	400.00	0.00	100.00	0.00	1285.55
115	1	4	37	1		71500.00	1424.31	3.00	0.03	797.32	400.00	0.00	100.00	0.00	797.32
116	1	5	37	1		69341.65	1422.51	2.97	213.00	400.00	400.00	0.00	100.00	0.00	400.00
117	1	6	37	1		61642.09	1416.11	2.86	213.00	400.00	400.00	0.00	100.00	0.00	400.00
118	1	7	37	1		56711.52	1412.01	2.79	213.00	400.00	400.00	0.00	100.00	0.00	400.00
119	1	8	37	1		45922.93	1401.06	2.63	213.00	400.00	400.00	0.00	100.00	0.00	400.00
120	1	9	37	1		66926.41	1420.50	2.93	213.00	400.00	400.00	0.00	100.00	0.00	400.00
					SUM =	6480173.11	168291.95	329.79	16189.32	66678.20	48000.00	1725.45	12000.00	0.00	66678.20
					MAX =	71500.00	1424.31	3.00	213.00	3025.96	400.00	297.71	100.00	0.00	3025.96
					MIN =	2000.00	1300.00	2.00	0.03	102.29	400.00	0.00	100.00	0.00	102.29
					PMAX=	2.00	1.00	1.00	10.00	101.00	1.00	38.00	1.00	1.00	101.00
					AVG =	54001.44	1402.43	2.75	134.91	555.65	400.00	14.38	100.00	0.00	555.65
					PMIN=	109.00	37.00	37.00	1.00	38.00	1.00	1.00	1.00	1.00	38.00

RUN2 - SUMMARY OUTPUT

SUMMARY BY PERIOD FLOOD= 1

LOC NO=					4.	4.	4.	4.	4.	213.	213.	213.	213.	213.
CODE=					4.110	4.220	4.130	4.120	4.100	213.050	213.060	213.070	213.080	213.040
PER	DY	MO	YR	DW	RES NO.4 EOP STOR	RES NO.4 EOP ELEV	RES NO.4 LEVEL	RES NO.4 CASE	RES NO.4 OUTFLOW	C.P. 213 MIN DESI	C.P. 213 DEQ-SHOR	C.P. 213 MIN REQU	C.P. 213 REQ-SHOR	C.P. 213 FLOW REQ
1	1	10	27	1	71500.00	1424.31	3.00	0.03	1221.09	400.00	0.00	100.00	0.00	1221.09
2	1	11	27	1	71500.00	1424.31	3.00	0.03	1272.75	400.00	0.00	100.00	0.00	1272.75
3	1	12	27	1	71500.00	1424.31	3.00	0.03	501.16	400.00	0.00	100.00	0.00	501.16
4	1	1	28	1	71500.00	1424.31	3.00	0.03	735.78	400.00	0.00	100.00	0.00	735.78
5	1	2	28	1	71500.00	1424.31	3.00	0.03	649.88	400.00	0.00	100.00	0.00	649.88
6	1	3	28	1	71500.00	1424.31	3.00	0.03	1388.55	400.00	0.00	100.00	0.00	1388.55
7	1	4	28	1	71500.00	1424.31	3.00	0.03	1003.32	400.00	0.00	100.00	0.00	1003.32
8	1	5	28	1	71500.00	1424.31	3.00	0.03	1365.91	400.00	0.00	100.00	0.00	1365.91
9	1	6	28	1	71500.00	1424.31	3.00	0.03	1308.65	400.00	0.00	100.00	0.00	1308.65
10	1	7	28	1	69097.74	1422.31	2.97	213.00	400.00	400.00	0.00	100.00	0.00	400.00
11	1	8	28	1	61882.20	1416.31	2.86	213.00	400.00	400.00	0.00	100.00	0.00	400.00
12	1	9	28	1	48551.32	1403.86	2.67	213.00	400.00	400.00	0.00	100.00	0.00	400.00
13	1	10	28	1	35784.87	1390.24	2.49	213.00	400.00	400.00	0.00	100.00	0.00	400.00
14	1	11	28	1	27676.37	1378.86	2.37	213.00	400.00	400.00	0.00	100.00	0.00	400.00
15	1	12	28	1	32799.72	1386.10	2.44	213.00	400.00	400.00	0.00	100.00	0.00	400.00
16	1	1	29	1	34808.36	1388.94	2.47	213.00	400.00	400.00	0.00	100.00	0.00	400.00
17	1	2	29	1	71500.00	1424.31	3.00	0.03	471.71	400.00	0.00	100.00	0.00	471.71
18	1	3	29	1	71500.00	1424.31	3.00	0.03	1233.55	400.00	0.00	100.00	0.00	1233.55
19	1	4	29	1	71500.00	1424.31	3.00	0.03	814.32	400.00	0.00	100.00	0.00	814.32
20	1	5	29	1	64359.51	1418.37	2.90	213.00	400.00	400.00	0.00	100.00	0.00	400.00
21	1	6	29	1	50289.35	1405.72	2.69	213.00	400.00	400.00	0.00	100.00	0.00	400.00
22	1	7	29	1	34957.29	1389.15	2.47	213.00	400.00	400.00	0.00	100.00	0.00	400.00
23	1	8	29	1	23174.91	1372.49	2.30	213.00	400.00	400.00	0.00	100.00	0.00	400.00
24	1	9	29	1	35550.77	1389.99	2.48	213.00	400.00	400.00	0.00	100.00	0.00	400.00
25	1	10	29	1	48671.01	1403.99	2.67	213.00	400.00	400.00	0.00	100.00	0.00	400.00
26	1	11	29	1	58000.50	1413.08	2.81	213.00	400.00	400.00	0.00	100.00	0.00	400.00
27	1	12	29	1	65853.36	1419.61	2.92	213.00	400.00	400.00	0.00	100.00	0.00	400.00
28	1	1	30	1	70629.70	1423.59	2.99	213.00	400.00	400.00	0.00	100.00	0.00	400.00
29	1	2	30	1	71500.00	1424.31	3.00	0.03	747.30	400.00	0.00	100.00	0.00	747.30
30	1	3	30	1	71500.00	1424.31	3.00	0.03	894.55	400.00	0.00	100.00	0.00	894.55
31	1	4	30	1	71500.00	1424.31	3.00	0.03	495.32	400.00	0.00	100.00	0.00	495.32
32	1	5	30	1	71500.00	1424.31	3.00	0.03	575.91	400.00	0.00	100.00	0.00	575.91
33	1	6	30	1	66598.73	1420.23	2.93	213.00	400.00	400.00	0.00	100.00	0.00	400.00
34	1	7	30	1	48508.55	1403.82	2.67	213.00	400.00	400.00	0.00	100.00	0.00	400.00
35	1	8	30	1	29721.25	1381.75	2.40	213.00	400.00	400.00	0.00	100.00	0.00	400.00
36	1	9	30	1	10381.21	1343.83	2.12	213.00	400.00	400.00	0.00	100.00	0.00	400.00
37	1	10	30	1	2000.00	1300.00	2.00	213.00	212.16	400.00	187.84	100.00	0.00	212.16
38	1	11	30	1	2000.00	1300.00	2.00	213.00	102.29	400.00	297.71	100.00	0.00	102.29
39	1	12	30	1	2000.00	1300.00	2.00	213.00	124.26	400.00	275.74	100.00	0.00	124.26
40	1	1	31	1	2000.00	1300.00	2.00	213.00	164.17	400.00	235.83	100.00	0.00	164.17
41	1	2	31	1	16976.57	1360.56	2.22	213.00	400.00	400.00	0.00	100.00	0.00	400.00
42	1	3	31	1	46493.66	1401.67	2.64	213.00	400.00	400.00	0.00	100.00	0.00	400.00

RUN2 (CONTINUED)

LOC NO=					4.	4.	4.	4.	4.	213.	213.	213.	213.	213.
PER	DY	MO	YR	DW	RES NO.4 EOP STOR	RES NO.4 EOP ELEV	RES NO.4 LEVEL	RES NO.4 CASE	RES NO.4 OUTFLOW	C.P. 213 MIN DESI	C.P. 213 DEQ-SHOR	C.P. 213 MIN REQU	C.P. 213 REQ-SHOR	C.P. 213 FLOW REG
43	1	4	31	1	70753.35	1423.69	2.99	213.00	400.00	400.00	0.00	100.00	0.00	400.00
44	1	5	31	1	68779.06	1422.05	2.96	213.00	400.00	400.00	0.00	100.00	0.00	400.00
45	1	6	31	1	70006.95	1423.07	2.98	213.00	400.00	400.00	0.00	100.00	0.00	400.00
46	1	7	31	1	58131.38	1413.19	2.81	213.00	400.00	400.00	0.00	100.00	0.00	400.00
47	1	8	31	1	42484.77	1397.39	2.58	213.00	400.00	400.00	0.00	100.00	0.00	400.00
48	1	9	31	1	23084.88	1372.37	2.30	213.00	400.00	400.00	0.00	100.00	0.00	400.00
49	1	10	31	1	3392.06	1310.30	2.02	213.00	400.00	400.00	0.00	100.00	0.00	400.00
50	1	11	31	1	2000.00	1300.00	2.00	213.00	156.77	400.00	243.23	100.00	0.00	156.77
51	1	12	31	1	6641.80	1329.75	2.07	213.00	400.00	400.00	0.00	100.00	0.00	400.00
52	1	1	32	1	8702.98	1337.51	2.10	213.00	400.00	400.00	0.00	100.00	0.00	400.00
53	1	2	32	1	16227.14	1358.96	2.20	213.00	400.00	400.00	0.00	100.00	0.00	400.00
54	1	3	32	1	59778.64	1414.56	2.83	213.00	400.00	400.00	0.00	100.00	0.00	400.00
55	1	4	32	1	66318.68	1420.00	2.93	213.00	400.00	400.00	0.00	100.00	0.00	400.00
56	1	5	32	1	71500.00	1424.31	3.00	0.03	429.62	400.00	0.00	100.00	0.00	429.62
57	1	6	32	1	64158.49	1418.20	2.89	213.00	400.00	400.00	0.00	100.00	0.00	400.00
58	1	7	32	1	47604.43	1402.85	2.66	213.00	400.00	400.00	0.00	100.00	0.00	400.00
59	1	8	32	1	27771.22	1378.99	2.37	213.00	400.00	400.00	0.00	100.00	0.00	400.00
60	1	9	32	1	29495.71	1381.43	2.40	213.00	400.00	400.00	0.00	100.00	0.00	400.00
				SUM =	2869598.48	83652.02	159.56	9159.51	31069.02	24000.00	1240.35	6000.00	0.00	31069.02
				MAX =	71500.00	1424.31	3.00	213.00	1388.55	400.00	297.71	100.00	0.00	1388.55
				MIN =	2000.00	1300.00	2.00	0.03	102.29	400.00	0.00	100.00	0.00	102.29
				PMAX=	2.00	1.00	1.00	10.00	6.00	1.00	38.00	1.00	1.00	6.00
				AVG =	47826.64	1394.20	2.66	152.66	517.82	400.00	20.67	100.00	0.00	517.82
				PMIN=	39.00	37.00	37.00	1.00	38.00	1.00	1.00	1.00	1.00	38.00

RUN3 - SUMMARY OUTPUT

SUMMARY BY PERIOD FLOOD= 1

LOC NO=					4.	4.	4.	4.	4.	213.	213.	213.	213.	213.
CODE=					4.110	4.220	4.130	4.120	4.100	213.050	213.060	213.070	213.080	213.040
PER	DY	MO	YR	DW	RES NO.4 EOP STOR	RES NO.4 EOP ELEV	RES NO.4 LEVEL	RES NO.4 CASE	RES NO.4 OUTFLOW	C.P. 213 MIN DESI	C.P. 213 DEQ-SHOR	C.P. 213 MIN REQU	C.P. 213 REQ-SHOR	C.P. 213 FLOW REG
1	1	7	28	1	69097.74	1422.31	2.97	213.00	400.00	400.00	0.00	100.00	0.00	400.00
2	1	8	28	1	61882.20	1416.31	2.86	213.00	400.00	400.00	0.00	100.00	0.00	400.00
3	1	9	28	1	48551.32	1403.86	2.67	213.00	400.00	400.00	0.00	100.00	0.00	400.00
4	1	10	28	1	35784.87	1390.24	2.49	213.00	400.00	400.00	0.00	100.00	0.00	400.00
5	1	11	28	1	27676.37	1378.86	2.37	213.00	400.00	400.00	0.00	100.00	0.00	400.00
6	1	12	28	1	32799.72	1386.10	2.44	213.00	400.00	400.00	0.00	100.00	0.00	400.00
7	1	1	29	1	34808.36	1388.94	2.47	213.00	400.00	400.00	0.00	100.00	0.00	400.00
8	1	2	29	1	71500.00	1424.31	3.00	0.03	471.71	400.00	0.00	100.00	0.00	471.71
9	1	3	29	1	71500.00	1424.31	3.00	0.03	1233.55	400.00	0.00	100.00	0.00	1233.55
10	1	4	29	1	71500.00	1424.31	3.00	0.03	814.32	400.00	0.00	100.00	0.00	814.32
11	1	5	29	1	64359.51	1418.37	2.90	213.00	400.00	400.00	0.00	100.00	0.00	400.00
12	1	6	29	1	50289.35	1405.72	2.69	213.00	400.00	400.00	0.00	100.00	0.00	400.00
13	1	7	29	1	34957.29	1389.15	2.47	213.00	400.00	400.00	0.00	100.00	0.00	400.00
14	1	8	29	1	23174.91	1372.49	2.30	213.00	400.00	400.00	0.00	100.00	0.00	400.00
15	1	9	29	1	35550.77	1389.99	2.48	213.00	400.00	400.00	0.00	100.00	0.00	400.00
16	1	10	29	1	48671.01	1403.99	2.67	213.00	400.00	400.00	0.00	100.00	0.00	400.00
17	1	11	29	1	58000.50	1413.08	2.81	213.00	400.00	400.00	0.00	100.00	0.00	400.00
18	1	12	29	1	65853.36	1419.61	2.92	213.00	400.00	400.00	0.00	100.00	0.00	400.00
19	1	1	30	1	70629.70	1423.59	2.99	213.00	400.00	400.00	0.00	100.00	0.00	400.00
20	1	2	30	1	71500.00	1424.31	3.00	0.03	747.30	400.00	0.00	100.00	0.00	747.30
21	1	3	30	1	71500.00	1424.31	3.00	0.03	894.55	400.00	0.00	100.00	0.00	894.55
22	1	4	30	1	71500.00	1424.31	3.00	0.03	495.32	400.00	0.00	100.00	0.00	495.32
23	1	5	30	1	71500.00	1424.31	3.00	0.03	575.91	400.00	0.00	100.00	0.00	575.91
24	1	6	30	1	66598.73	1420.23	2.93	213.00	400.00	400.00	0.00	100.00	0.00	400.00
25	1	7	30	1	48508.55	1403.82	2.67	213.00	400.00	400.00	0.00	100.00	0.00	400.00
26	1	8	30	1	29721.25	1381.75	2.40	213.00	400.00	400.00	0.00	100.00	0.00	400.00
27	1	9	30	1	10381.21	1343.83	2.12	213.00	400.00	400.00	0.00	100.00	0.00	400.00
28	1	10	30	1	2000.00	1300.00	2.00	213.00	212.16	400.00	187.84	100.00	0.00	212.16
29	1	11	30	1	2000.00	1300.00	2.00	213.00	102.29	400.00	297.71	100.00	0.00	102.29
30	1	12	30	1	2000.00	1300.00	2.00	213.00	124.26	400.00	275.74	100.00	0.00	124.26
31	1	1	31	1	2000.00	1300.00	2.00	213.00	164.17	400.00	235.83	100.00	0.00	164.17
32	1	2	31	1	16976.57	1360.56	2.22	213.00	400.00	400.00	0.00	100.00	0.00	400.00
33	1	3	31	1	46493.66	1401.67	2.64	213.00	400.00	400.00	0.00	100.00	0.00	400.00
34	1	4	31	1	70753.35	1423.69	2.99	213.00	400.00	400.00	0.00	100.00	0.00	400.00
35	1	5	31	1	68779.06	1422.05	2.96	213.00	400.00	400.00	0.00	100.00	0.00	400.00
36	1	6	31	1	70006.95	1423.07	2.98	213.00	400.00	400.00	0.00	100.00	0.00	400.00
37	1	7	31	1	58131.38	1413.19	2.81	213.00	400.00	400.00	0.00	100.00	0.00	400.00
38	1	8	31	1	42484.77	1397.39	2.58	213.00	400.00	400.00	0.00	100.00	0.00	400.00
39	1	9	31	1	23084.88	1372.37	2.30	213.00	400.00	400.00	0.00	100.00	0.00	400.00
40	1	10	31	1	3392.06	1310.30	2.02	213.00	400.00	400.00	0.00	100.00	0.00	400.00
41	1	11	31	1	2000.00	1300.00	2.00	213.00	156.77	400.00	243.23	100.00	0.00	156.77
42	1	12	31	1	6641.80	1329.75	2.07	213.00	400.00	400.00	0.00	100.00	0.00	400.00
43	1	1	32	1	8702.98	1337.51	2.10	213.00	400.00	400.00	0.00	100.00	0.00	400.00
44	1	2	32	1	16227.14	1358.96	2.20	213.00	400.00	400.00	0.00	100.00	0.00	400.00
45	1	3	32	1	59778.64	1414.56	2.83	213.00	400.00	400.00	0.00	100.00	0.00	400.00
46	1	4	32	1	66318.68	1420.00	2.93	213.00	400.00	400.00	0.00	100.00	0.00	400.00
47	1	5	32	1	71500.00	1424.31	3.00	0.03	429.62	400.00	0.00	100.00	0.00	429.62
48	1	6	32	1	64158.49	1418.20	2.89	213.00	400.00	400.00	0.00	100.00	0.00	400.00
49	1	7	32	1	47604.43	1402.85	2.66	213.00	400.00	400.00	0.00	100.00	0.00	400.00
50	1	8	32	1	27771.22	1378.99	2.37	213.00	400.00	400.00	0.00	100.00	0.00	400.00
51	1	9	32	1	29495.71	1381.43	2.40	213.00	400.00	400.00	0.00	100.00	0.00	400.00

RUN3 (CONTINUED)

SUM =	2226098.48	70833.23	132.56	9159.24	21621.93	20400.00	1240.35	5100.00	0.00	21621.93
MAX =	71500.00	1424.31	3.00	213.00	1233.55	400.00	297.71	100.00	0.00	1233.55
MIN =	2000.00	1300.00	2.00	0.03	102.29	400.00	0.00	100.00	0.00	102.29
PMAX=	8.00	8.00	8.00	1.00	9.00	1.00	29.00	1.00	1.00	9.00
AVG =	43648.99	1388.89	2.60	179.59	423.96	400.00	24.32	100.00	0.00	423.96
PMIN=	30.00	28.00	28.00	8.00	29.00	1.00	1.00	1.00	1.00	29.00

RUN4 - SUMMARY OUTPUT

SUMMARY BY PERIOD FLOOD= 1

LOC NO=					4.	4.	4.	4.	4.	213.	213.	213.	213.	213.
CODE=					4.110	4.220	4.130	4.120	4.100	213.050	213.060	213.070	213.080	213.040
PER	DY	MO	YR	DW	RES NO.4 EOP STOR	RES NO.4 EOP ELEV	RES NO.4 LEVEL	RES NO.4 CASE	RES NO.4 OUTFLOW	C.P. 213 MIN DESI	C.P. 213 DEQ-SHOR	C.P. 213 MIN REQU	C.P. 213 REQ-SHOR	C.P. 213 FLOW REG
1	1	10	27	1	71500.00	1424.31	3.00	0.03	1221.09	440.00	0.00	100.00	0.00	1221.09
2	1	11	27	1	71500.00	1424.31	3.00	0.03	1272.75	410.00	0.00	100.00	0.00	1272.75
3	1	12	27	1	71500.00	1424.31	3.00	0.03	501.16	400.00	0.00	100.00	0.00	501.16
4	1	1	28	1	71500.00	1424.31	3.00	0.03	735.78	420.00	0.00	100.00	0.00	735.78
5	1	2	28	1	71500.00	1424.31	3.00	0.03	649.88	440.00	0.00	100.00	0.00	649.88
6	1	3	28	1	71500.00	1424.31	3.00	0.03	1388.55	480.00	0.00	100.00	0.00	1388.55
7	1	4	28	1	71500.00	1424.31	3.00	0.03	1003.32	500.00	0.00	100.00	0.00	1003.32
8	1	5	28	1	71500.00	1424.31	3.00	0.03	1365.91	520.00	0.00	100.00	0.00	1365.91
9	1	6	28	1	71500.00	1424.31	3.00	0.03	1308.65	540.00	0.00	100.00	0.00	1308.65
10	1	7	28	1	59871.44	1414.64	2.83	213.00	550.00	550.00	0.00	100.00	0.00	550.00
11	1	8	28	1	44656.09	1399.71	2.61	213.00	530.00	530.00	0.00	100.00	0.00	530.00
12	1	9	28	1	25970.20	1376.45	2.34	213.00	490.00	490.00	0.00	100.00	0.00	490.00
13	1	10	28	1	10760.43	1345.26	2.13	213.00	440.00	440.00	0.00	100.00	0.00	440.00
14	1	11	28	1	2000.00	1300.00	2.00	213.00	408.99	410.00	1.01	100.00	0.00	408.99
15	1	12	28	1	7011.87	1331.14	2.07	213.00	400.00	400.00	0.00	100.00	0.00	400.00
16	1	1	29	1	7719.30	1333.81	2.08	213.00	420.00	420.00	0.00	100.00	0.00	420.00
17	1	2	29	1	46126.50	1401.28	2.63	213.00	440.00	440.00	0.00	100.00	0.00	440.00
18	1	3	29	1	71500.00	1424.31	3.00	0.03	820.39	480.00	0.00	100.00	0.00	820.39
19	1	4	29	1	71500.00	1424.31	3.00	0.03	814.32	500.00	0.00	100.00	0.00	814.32
20	1	5	29	1	56978.56	1412.23	2.79	213.00	520.00	520.00	0.00	100.00	0.00	520.00
21	1	6	29	1	34573.10	1388.61	2.47	213.00	540.00	540.00	0.00	100.00	0.00	540.00
22	1	7	29	1	10004.71	1342.41	2.12	213.00	550.00	550.00	0.00	100.00	0.00	550.00
23	1	8	29	1	2000.00	1300.00	2.00	213.00	338.29	530.00	191.71	100.00	0.00	338.29
24	1	9	29	1	9021.28	1338.71	2.10	213.00	490.00	490.00	0.00	100.00	0.00	490.00
25	1	10	29	1	19702.55	1366.36	2.25	213.00	440.00	440.00	0.00	100.00	0.00	440.00
26	1	11	29	1	28349.04	1379.81	2.38	213.00	410.00	410.00	0.00	100.00	0.00	410.00
27	1	12	29	1	36122.36	1390.60	2.49	213.00	400.00	400.00	0.00	100.00	0.00	400.00
28	1	1	30	1	39614.14	1394.33	2.54	213.00	420.00	420.00	0.00	100.00	0.00	420.00
29	1	2	30	1	57510.34	1412.67	2.80	213.00	440.00	440.00	0.00	100.00	0.00	440.00
30	1	3	30	1	71500.00	1424.31	3.00	0.03	666.75	480.00	0.00	100.00	0.00	666.75
31	1	4	30	1	71221.06	1424.08	3.00	213.00	500.00	500.00	0.00	100.00	0.00	500.00
32	1	5	30	1	71500.00	1424.31	3.00	0.03	571.37	520.00	0.00	100.00	0.00	571.37
33	1	6	30	1	58266.21	1413.30	2.81	213.00	540.00	540.00	0.00	100.00	0.00	540.00
34	1	7	30	1	30945.04	1383.48	2.42	213.00	550.00	550.00	0.00	100.00	0.00	550.00
35	1	8	30	1	4152.37	1315.92	2.03	213.00	530.00	530.00	0.00	100.00	0.00	530.00
36	1	9	30	1	2000.00	1300.00	2.00	213.00	111.17	490.00	378.83	100.00	0.00	111.17
37	1	10	30	1	521.71	1277.97	1.13	213.00	100.00	440.00	340.00	100.00	0.00	100.00
38	1	11	30	1	649.52	1280.98	1.21	213.00	100.00	410.00	310.00	100.00	0.00	100.00
39	1	12	30	1	2000.00	1300.00	2.00	213.00	102.23	400.00	297.77	100.00	0.00	102.23
40	1	1	31	1	2000.00	1300.00	2.00	213.00	164.17	420.00	255.83	100.00	0.00	164.17
41	1	2	31	1	14751.50	1355.82	2.18	213.00	440.00	440.00	0.00	100.00	0.00	440.00
42	1	3	31	1	39337.57	1394.03	2.54	213.00	480.00	480.00	0.00	100.00	0.00	480.00

RUN4 (CONTINUED)

LOC NO=					4.	4.	4.	4.	4.	213.	213.	213.	213.	213.
PER	DY	MO	YR	DW	RES NO.4 EOP STOR	RES NO.4 EOP ELEV	RES NO.4 LEVEL	RES NO.4 CASE	RES NO.4 OUTFLOW	C.P. 213 MIN DESI	C.P. 213 DEQ-SHOR	C.P. 213 MIN REQU	C.P. 213 REQ-SHOR	C.P. 213 FLOW REG
43	1	4	31	1	57619.37	1412.76	2.80	213.00	500.00	500.00	0.00	100.00	0.00	500.00
44	1	5	31	1	48255.94	1403.55	2.67	213.00	520.00	520.00	0.00	100.00	0.00	520.00
45	1	6	31	1	41142.86	1395.96	2.56	213.00	540.00	540.00	0.00	100.00	0.00	540.00
46	1	7	31	1	20023.44	1367.05	2.26	213.00	550.00	550.00	0.00	100.00	0.00	550.00
47	1	8	31	1	2000.00	1300.00	2.00	213.00	438.30	530.00	91.70	100.00	0.00	438.30
48	1	9	31	1	452.77	1275.56	1.09	213.00	100.00	490.00	390.00	100.00	0.00	100.00
49	1	10	31	1	300.00	1270.23	1.00	0.07	82.46	440.00	357.54	100.00	17.54	82.46
50	1	11	31	1	2000.00	1300.00	2.00	213.00	104.64	410.00	305.36	100.00	0.00	104.64
51	1	12	31	1	6641.80	1329.75	2.07	213.00	400.00	400.00	0.00	100.00	0.00	400.00
52	1	1	32	1	7471.19	1332.87	2.08	213.00	420.00	420.00	0.00	100.00	0.00	420.00
53	1	2	32	1	12686.85	1351.42	2.15	213.00	440.00	440.00	0.00	100.00	0.00	440.00
54	1	3	32	1	51304.91	1406.80	2.71	213.00	480.00	480.00	0.00	100.00	0.00	480.00
55	1	4	32	1	51862.14	1407.40	2.72	213.00	500.00	500.00	0.00	100.00	0.00	500.00
56	1	5	32	1	51475.33	1406.99	2.71	213.00	520.00	520.00	0.00	100.00	0.00	520.00
57	1	6	32	1	35793.11	1390.25	2.49	213.00	540.00	540.00	0.00	100.00	0.00	540.00
58	1	7	32	1	9995.36	1342.38	2.12	213.00	550.00	550.00	0.00	100.00	0.00	550.00
59	1	8	32	1	2000.00	1300.00	2.00	213.00	207.14	530.00	322.86	100.00	0.00	207.14
60	1	9	32	1	2000.00	1300.00	2.00	213.00	429.00	490.00	61.00	100.00	0.00	429.00
61	1	10	32	1	49010.59	1404.35	2.68	213.00	440.00	440.00	0.00	100.00	0.00	440.00
62	1	11	32	1	48628.09	1403.95	2.67	213.00	410.00	410.00	0.00	100.00	0.00	410.00
63	1	12	32	1	51159.73	1406.65	2.71	213.00	400.00	400.00	0.00	100.00	0.00	400.00
64	1	1	33	1	57815.68	1412.92	2.80	213.00	420.00	420.00	0.00	100.00	0.00	420.00
65	1	2	33	1	71500.00	1424.31	3.00	0.03	665.36	440.00	0.00	100.00	0.00	665.36
66	1	3	33	1	71500.00	1424.31	3.00	0.03	1227.55	480.00	0.00	100.00	0.00	1227.55
67	1	4	33	1	71500.00	1424.31	3.00	0.03	659.32	500.00	0.00	100.00	0.00	659.32
68	1	5	33	1	60976.58	1415.55	2.85	213.00	520.00	520.00	0.00	100.00	0.00	520.00
69	1	6	33	1	41488.96	1396.33	2.57	213.00	540.00	540.00	0.00	100.00	0.00	540.00
70	1	7	33	1	71174.55	1424.04	3.00	213.00	550.00	550.00	0.00	100.00	0.00	550.00
71	1	8	33	1	71500.00	1424.31	3.00	0.03	1232.41	530.00	0.00	100.00	0.00	1232.41
72	1	9	33	1	71500.00	1424.31	3.00	0.03	523.96	490.00	0.00	100.00	0.00	523.96
73	1	10	33	1	68063.30	1421.45	2.95	213.00	440.00	440.00	0.00	100.00	0.00	440.00
74	1	11	33	1	64997.98	1418.90	2.91	213.00	410.00	410.00	0.00	100.00	0.00	410.00
75	1	12	33	1	71500.00	1424.31	3.00	0.03	610.27	400.00	0.00	100.00	0.00	610.27
76	1	1	34	1	54376.20	1410.06	2.75	213.00	420.00	420.00	0.00	100.00	0.00	420.00
77	1	2	34	1	55566.14	1411.05	2.77	213.00	440.00	440.00	0.00	100.00	0.00	440.00
78	1	3	34	1	71500.00	1424.31	3.00	0.03	939.10	480.00	0.00	100.00	0.00	939.10
79	1	4	34	1	71500.00	1424.31	3.00	0.03	554.32	500.00	0.00	100.00	0.00	554.32
80	1	5	34	1	58454.75	1413.46	2.81	213.00	520.00	520.00	0.00	100.00	0.00	520.00
81	1	6	34	1	37894.87	1392.49	2.52	213.00	540.00	540.00	0.00	100.00	0.00	540.00
82	1	7	34	1	14620.43	1355.54	2.18	213.00	550.00	550.00	0.00	100.00	0.00	550.00
83	1	8	34	1	13588.54	1353.34	2.17	213.00	530.00	530.00	0.00	100.00	0.00	530.00
84	1	9	34	1	9660.65	1341.12	2.11	213.00	490.00	490.00	0.00	100.00	0.00	490.00
85	1	10	34	1	20709.95	1368.51	2.27	213.00	440.00	440.00	0.00	100.00	0.00	440.00
86	1	11	34	1	69050.99	1422.27	2.96	213.00	410.00	410.00	0.00	100.00	0.00	410.00
87	1	12	34	1	71500.00	1424.31	3.00	0.03	530.28	400.00	0.00	100.00	0.00	530.28
88	1	1	35	1	67608.99	1421.07	2.94	213.00	420.00	420.00	0.00	100.00	0.00	420.00
89	1	2	35	1	71500.00	1424.31	3.00	0.03	976.86	440.00	0.00	100.00	0.00	976.86
90	1	3	35	1	71500.00	1424.31	3.00	0.03	766.55	480.00	0.00	100.00	0.00	766.55

RUN4 (CONTINUED)

LOC NO=					4.	4.	4.	4.	4.	213.	213.	213.	213.	213.
PER	DY	MO	YR	DW	RES NO.4 EOP STOR	RES NO.4 EOP ELEV	RES NO.4 LEVEL	RES NO.4 CASE	RES NO.4 OUTFLOW	C.P. 213 MIN DESI	C.P. 213 DEQ-SHOR	C.P. 213 MIN REQU	C.P. 213 REQ-SHOR	C.P. 213 FLOW REG
91	1	4	35	1	71500.00	1424.31	3.00	0.03	549.32	500.00	0.00	100.00	0.00	549.32
92	1	5	35	1	63436.89	1417.60	2.88	213.00	520.00	520.00	0.00	100.00	0.00	520.00
93	1	6	35	1	71500.00	1424.31	3.00	0.03	1042.12	540.00	0.00	100.00	0.00	1042.12
94	1	7	35	1	53228.51	1408.86	2.74	213.00	550.00	550.00	0.00	100.00	0.00	550.00
95	1	8	35	1	32167.67	1385.21	2.43	213.00	530.00	530.00	0.00	100.00	0.00	530.00
96	1	9	35	1	13660.60	1353.49	2.17	213.00	490.00	490.00	0.00	100.00	0.00	490.00
97	1	10	35	1	40194.59	1394.95	2.55	213.00	440.00	440.00	0.00	100.00	0.00	440.00
98	1	11	35	1	57485.14	1412.65	2.80	213.00	410.00	410.00	0.00	100.00	0.00	410.00
99	1	12	35	1	70816.90	1423.74	2.99	213.00	400.00	400.00	0.00	100.00	0.00	400.00
100	1	1	36	1	65508.97	1419.33	2.91	213.00	420.00	420.00	0.00	100.00	0.00	420.00
101	1	2	36	1	71500.00	1424.31	3.00	0.03	2992.63	440.00	0.00	100.00	0.00	2992.63
102	1	3	36	1	71500.00	1424.31	3.00	0.03	823.55	480.00	0.00	100.00	0.00	823.55
103	1	4	36	1	63057.04	1417.29	2.88	213.00	500.00	500.00	0.00	100.00	0.00	500.00
104	1	5	36	1	47607.65	1402.86	2.66	213.00	520.00	520.00	0.00	100.00	0.00	520.00
105	1	6	36	1	22996.47	1372.24	2.30	213.00	540.00	540.00	0.00	100.00	0.00	540.00
106	1	7	36	1	2000.00	1300.00	2.00	213.00	406.73	550.00	143.27	100.00	0.00	406.73
107	1	8	36	1	300.00	1270.23	1.00	0.07	70.68	530.00	459.32	100.00	29.32	70.68
108	1	9	36	1	2000.00	1300.00	2.00	213.00	111.43	490.00	378.57	100.00	0.00	111.43
109	1	10	36	1	2000.00	1300.00	2.00	213.00	171.94	440.00	268.06	100.00	0.00	171.94
110	1	11	36	1	10972.32	1346.06	2.13	213.00	410.00	410.00	0.00	100.00	0.00	410.00
111	1	12	36	1	48252.28	1403.55	2.67	213.00	400.00	400.00	0.00	100.00	0.00	400.00
112	1	1	37	1	71500.00	1424.31	3.00	0.03	483.33	420.00	0.00	100.00	0.00	483.33
113	1	2	37	1	71500.00	1424.31	3.00	0.03	681.98	440.00	0.00	100.00	0.00	681.98
114	1	3	37	1	71500.00	1424.31	3.00	0.03	1285.55	480.00	0.00	100.00	0.00	1285.55
115	1	4	37	1	71500.00	1424.31	3.00	0.03	797.32	500.00	0.00	100.00	0.00	797.32
116	1	5	37	1	61960.70	1416.37	2.86	213.00	520.00	520.00	0.00	100.00	0.00	520.00
117	1	6	37	1	45925.42	1401.06	2.63	213.00	540.00	540.00	0.00	100.00	0.00	540.00
118	1	7	37	1	31759.46	1384.63	2.43	213.00	550.00	550.00	0.00	100.00	0.00	550.00
119	1	8	37	1	12964.03	1352.01	2.16	213.00	530.00	530.00	0.00	100.00	0.00	530.00
120	1	9	37	1	28612.89	1380.18	2.38	213.00	490.00	490.00	0.00	100.00	0.00	490.00
				SUM =	5106616.44	166099.80	305.56	18319.10	67238.86	57200.00	4552.82	12000.00	46.86	67238.86
				MAX =	71500.00	1424.31	3.00	213.00	2992.63	550.00	459.32	100.00	29.32	2992.63
				MIN =	300.00	1270.23	1.00	0.03	70.68	400.00	0.00	100.00	0.00	70.68
				PMAX=	2.00	1.00	1.00	10.00	101.00	10.00	107.00	1.00	107.00	101.00
				AVG =	42555.14	1384.16	2.55	152.66	560.32	476.67	37.94	100.00	0.39	560.32
				PMIN=	49.00	49.00	49.00	1.00	107.00	3.00	1.00	1.00	1.00	107.00

RUN5 - SUMMARY OUTPUT

SUMMARY BY PERIOD FLOOD= 1

LOC NO=					4.	4.	4.	4.	4.	212.	212.	213.	213.	213.
CODE=					4.110	4.220	4.130	4.120	4.100	212.050	212.060	213.070	213.080	213.040
PER	DY	MO	YR	DW	RES NO.4 EOP STOR	RES NO.4 EOP ELEV	RES NO.4 LEVEL	RES NO.4 CASE	RES NO.4 OUTFLOW	C.P. 212 MIN DESI	C.P. 212 DEQ-SHOR	C.P. 213 MIN REQU	C.P. 213 REQ-SHOR	C.P. 213 FLOW REG
1	1	10	27	1	71500.00	1424.31	3.00	0.03	1221.09	400.00	0.00	110.00	0.00	1221.09
2	1	11	27	1	71500.00	1424.31	3.00	0.03	1272.75	400.00	0.00	100.00	0.00	1272.75
3	1	12	27	1	71500.00	1424.31	3.00	0.03	501.16	400.00	0.00	100.00	0.00	501.16
4	1	1	28	1	71500.00	1424.31	3.00	0.03	735.78	400.00	0.00	100.00	0.00	735.78
5	1	2	28	1	71500.00	1424.31	3.00	0.03	649.88	400.00	0.00	120.00	0.00	649.88
6	1	3	28	1	71500.00	1424.31	3.00	0.03	1388.55	400.00	0.00	130.00	0.00	1388.55
7	1	4	28	1	71500.00	1424.31	3.00	0.03	1003.32	400.00	0.00	140.00	0.00	1003.32
8	1	5	28	1	71500.00	1424.31	3.00	0.03	1365.91	400.00	0.00	150.00	0.00	1365.91
9	1	6	28	1	71500.00	1424.31	3.00	0.03	1308.65	400.00	0.00	150.00	0.00	1308.65
10	1	7	28	1	69097.74	1422.31	2.97	212.00	400.00	400.00	0.00	140.00	0.00	400.00
11	1	8	28	1	61882.20	1416.31	2.86	212.00	400.00	400.00	0.00	130.00	0.00	400.00
12	1	9	28	1	48551.32	1403.86	2.67	212.00	400.00	400.00	0.00	120.00	0.00	400.00
13	1	10	28	1	35784.87	1390.24	2.49	212.00	400.00	400.00	0.00	110.00	0.00	400.00
14	1	11	28	1	27676.37	1378.86	2.37	212.00	400.00	400.00	0.00	100.00	0.00	400.00
15	1	12	28	1	32799.72	1386.10	2.44	212.00	400.00	400.00	0.00	100.00	0.00	400.00
16	1	1	29	1	34808.36	1388.94	2.47	212.00	400.00	400.00	0.00	100.00	0.00	400.00
17	1	2	29	1	71500.00	1424.31	3.00	0.03	471.71	400.00	0.00	120.00	0.00	471.71
18	1	3	29	1	71500.00	1424.31	3.00	0.03	1233.55	400.00	0.00	130.00	0.00	1233.55
19	1	4	29	1	71500.00	1424.31	3.00	0.03	814.32	400.00	0.00	140.00	0.00	814.32
20	1	5	29	1	64359.51	1418.37	2.90	212.00	400.00	400.00	0.00	150.00	0.00	400.00
21	1	6	29	1	50289.35	1405.72	2.69	212.00	400.00	400.00	0.00	150.00	0.00	400.00
22	1	7	29	1	34957.29	1389.15	2.47	212.00	400.00	400.00	0.00	140.00	0.00	400.00
23	1	8	29	1	23174.91	1372.49	2.30	212.00	400.00	400.00	0.00	130.00	0.00	400.00
24	1	9	29	1	35550.77	1389.99	2.48	212.00	400.00	400.00	0.00	120.00	0.00	400.00
25	1	10	29	1	48671.01	1403.99	2.67	212.00	400.00	400.00	0.00	110.00	0.00	400.00
26	1	11	29	1	58000.50	1413.08	2.81	212.00	400.00	400.00	0.00	100.00	0.00	400.00
27	1	12	29	1	65853.36	1419.61	2.92	212.00	400.00	400.00	0.00	100.00	0.00	400.00
28	1	1	30	1	70629.70	1423.59	2.99	212.00	400.00	400.00	0.00	100.00	0.00	400.00
29	1	2	30	1	71500.00	1424.31	3.00	0.03	747.30	400.00	0.00	120.00	0.00	747.30
30	1	3	30	1	71500.00	1424.31	3.00	0.03	894.55	400.00	0.00	130.00	0.00	894.55
31	1	4	30	1	71500.00	1424.31	3.00	0.03	495.32	400.00	0.00	140.00	0.00	495.32
32	1	5	30	1	71500.00	1424.31	3.00	0.03	575.91	400.00	0.00	150.00	0.00	575.91
33	1	6	30	1	66598.73	1420.23	2.93	212.00	400.00	400.00	0.00	150.00	0.00	400.00
34	1	7	30	1	48508.55	1403.82	2.67	212.00	400.00	400.00	0.00	140.00	0.00	400.00
35	1	8	30	1	29721.25	1381.75	2.40	212.00	400.00	400.00	0.00	130.00	0.00	400.00
36	1	9	30	1	10381.21	1343.83	2.12	212.00	400.00	400.00	0.00	120.00	0.00	400.00
37	1	10	30	1	2000.00	1300.00	2.00	212.00	212.16	400.00	187.84	110.00	0.00	212.16
38	1	11	30	1	2000.00	1300.00	2.00	212.00	102.29	400.00	297.71	100.00	0.00	102.29
39	1	12	30	1	2000.00	1300.00	2.00	212.00	124.26	400.00	275.74	100.00	0.00	124.26
40	1	1	31	1	2000.00	1300.00	2.00	212.00	164.17	400.00	235.83	100.00	0.00	164.17
41	1	2	31	1	16976.57	1360.56	2.22	212.00	400.00	400.00	0.00	120.00	0.00	400.00
42	1	3	31	1	46493.66	1401.67	2.64	212.00	400.00	400.00	0.00	130.00	0.00	400.00

RUN5 (CONTINUED)

LOC NO=					4.	4.	4.	4.	4.	212.	212.	213.	213.	213.
PER	DY	MO	YR	DW	RES NO.4 EOP STOR	RES NO.4 EOP ELEV	RES NO.4 LEVEL	RES NO.4 CASE	RES NO.4 OUTFLOW	C.P. 212 MIN DESI	C.P. 212 DEF-SHOR	C.P. 213 MIN REQU	C.P. 213 REQ-SHOR	C.P. 213 FLOW REQ
43	1	4	31	1	70753.35	1423.69	2.99	212.00	400.00	400.00	0.00	140.00	0.00	400.00
44	1	5	31	1	68779.06	1422.05	2.96	212.00	400.00	400.00	0.00	150.00	0.00	400.00
45	1	6	31	1	70006.95	1423.07	2.98	212.00	400.00	400.00	0.00	150.00	0.00	400.00
46	1	7	31	1	58131.38	1413.19	2.81	212.00	400.00	400.00	0.00	140.00	0.00	400.00
47	1	8	31	1	42484.77	1397.39	2.58	212.00	400.00	400.00	0.00	130.00	0.00	400.00
48	1	9	31	1	23084.88	1372.37	2.30	212.00	400.00	400.00	0.00	120.00	0.00	400.00
49	1	10	31	1	3392.06	1310.30	2.02	212.00	400.00	400.00	0.00	110.00	0.00	400.00
50	1	11	31	1	2000.00	1300.00	2.00	212.00	156.77	400.00	243.23	100.00	0.00	156.77
51	1	12	31	1	6641.80	1329.75	2.07	212.00	400.00	400.00	0.00	100.00	0.00	400.00
52	1	1	32	1	8702.98	1337.51	2.10	212.00	400.00	400.00	0.00	100.00	0.00	400.00
53	1	2	32	1	16227.14	1358.96	2.20	212.00	400.00	400.00	0.00	120.00	0.00	400.00
54	1	3	32	1	59778.64	1414.56	2.83	212.00	400.00	400.00	0.00	130.00	0.00	400.00
55	1	4	32	1	66318.68	1420.00	2.93	212.00	400.00	400.00	0.00	140.00	0.00	400.00
56	1	5	32	1	71500.00	1424.31	3.00	0.03	429.62	400.00	0.00	150.00	0.00	429.62
57	1	6	32	1	64158.49	1418.20	2.89	212.00	400.00	400.00	0.00	150.00	0.00	400.00
58	1	7	32	1	47604.43	1402.85	2.66	212.00	400.00	400.00	0.00	140.00	0.00	400.00
59	1	8	32	1	27771.22	1378.99	2.37	212.00	400.00	400.00	0.00	130.00	0.00	400.00
60	1	9	32	1	29495.71	1381.43	2.40	212.00	400.00	400.00	0.00	120.00	0.00	400.00
61	1	10	32	1	71500.00	1424.31	3.00	0.03	521.18	400.00	0.00	110.00	0.00	521.18
62	1	11	32	1	71500.00	1424.31	3.00	0.03	404.75	400.00	0.00	100.00	0.00	404.75
63	1	12	32	1	71500.00	1424.31	3.00	0.03	442.16	400.00	0.00	100.00	0.00	442.16
64	1	1	33	1	71500.00	1424.31	3.00	0.03	528.78	400.00	0.00	100.00	0.00	528.78
65	1	2	33	1	71500.00	1424.31	3.00	0.03	911.98	400.00	0.00	120.00	0.00	911.98
66	1	3	33	1	71500.00	1424.31	3.00	0.03	1227.55	400.00	0.00	130.00	0.00	1227.55
67	1	4	33	1	71500.00	1424.31	3.00	0.03	659.32	400.00	0.00	140.00	0.00	659.32
68	1	5	33	1	68357.52	1421.70	2.95	212.00	400.00	400.00	0.00	150.00	0.00	400.00
69	1	6	33	1	57205.49	1412.42	2.79	212.00	400.00	400.00	0.00	150.00	0.00	400.00
70	1	7	33	1	71500.00	1424.31	3.00	0.03	800.39	400.00	0.00	140.00	0.00	800.39
71	1	8	33	1	71500.00	1424.31	3.00	0.03	1237.70	400.00	0.00	130.00	0.00	1237.70
72	1	9	33	1	71500.00	1424.31	3.00	0.03	523.96	400.00	0.00	120.00	0.00	523.96
73	1	10	33	1	70522.06	1423.50	2.99	212.00	400.00	400.00	0.00	110.00	0.00	400.00
74	1	11	33	1	68060.60	1421.45	2.95	212.00	400.00	400.00	0.00	100.00	0.00	400.00
75	1	12	33	1	71500.00	1424.31	3.00	0.03	660.15	400.00	0.00	100.00	0.00	660.15
76	1	1	34	1	55607.15	1411.09	2.77	212.00	400.00	400.00	0.00	100.00	0.00	400.00
77	1	2	34	1	59022.99	1413.93	2.82	212.00	400.00	400.00	0.00	120.00	0.00	400.00
78	1	3	34	1	71500.00	1424.31	3.00	0.03	995.38	400.00	0.00	130.00	0.00	995.38
79	1	4	34	1	71500.00	1424.31	3.00	0.03	554.32	400.00	0.00	140.00	0.00	554.32
80	1	5	34	1	65835.70	1419.60	2.92	212.00	400.00	400.00	0.00	150.00	0.00	400.00
81	1	6	34	1	53611.24	1409.26	2.74	212.00	400.00	400.00	0.00	150.00	0.00	400.00
82	1	7	34	1	39572.73	1394.28	2.54	212.00	400.00	400.00	0.00	140.00	0.00	400.00
83	1	8	34	1	46550.80	1401.73	2.64	212.00	400.00	400.00	0.00	130.00	0.00	400.00
84	1	9	34	1	47977.34	1403.25	2.66	212.00	400.00	400.00	0.00	120.00	0.00	400.00
85	1	10	34	1	61459.48	1415.96	2.86	212.00	400.00	400.00	0.00	110.00	0.00	400.00
86	1	11	34	1	71500.00	1424.31	3.00	0.03	1054.75	400.00	0.00	100.00	0.00	1054.75
87	1	12	34	1	71500.00	1424.31	3.00	0.03	570.16	400.00	0.00	100.00	0.00	570.16
88	1	1	35	1	68839.94	1422.10	2.96	212.00	400.00	400.00	0.00	100.00	0.00	400.00
89	1	2	35	1	71500.00	1424.31	3.00	0.03	999.04	400.00	0.00	120.00	0.00	999.04
90	1	3	35	1	71500.00	1424.31	3.00	0.03	766.55	400.00	0.00	130.00	0.00	766.55

RUN5 (CONTINUED)

LOC NO=					4.	4.	4.	4.	4.	212.	212.	213.	213.	213.
PER	DY	MO	YR	DW	RES NO.4 EOP STOR	RES NO.4 EOP ELEV	RES NO.4 LEVEL	RES NO.4 CASE	RES NO.4 OUTFLOW	C.P. 212 MIN DESI	C.P. 212 DEQ-SHOR	C.P. 213 MIN REQU	C.P. 213 REQ-SHOR	C.P. 213 FLOW REQ
91	1	4	35	1	71500.00	1424.31	3.00	0.03	549.32	400.00	0.00	140.00	0.00	549.32
92	1	5	35	1	70817.84	1423.74	2.99	212.00	400.00	400.00	0.00	150.00	0.00	400.00
93	1	6	35	1	71500.00	1424.31	3.00	0.03	1166.18	400.00	0.00	150.00	0.00	1166.18
94	1	7	35	1	62454.81	1416.78	2.87	212.00	400.00	400.00	0.00	140.00	0.00	400.00
95	1	8	35	1	49393.21	1404.76	2.68	212.00	400.00	400.00	0.00	130.00	0.00	400.00
96	1	9	35	1	36241.12	1390.73	2.49	212.00	400.00	400.00	0.00	120.00	0.00	400.00
97	1	10	35	1	65220.60	1419.09	2.91	212.00	400.00	400.00	0.00	110.00	0.00	400.00
98	1	11	35	1	71500.00	1424.31	3.00	0.03	596.06	400.00	0.00	100.00	0.00	596.06
99	1	12	35	1	71500.00	1424.31	3.00	0.03	617.16	400.00	0.00	100.00	0.00	617.16
100	1	1	36	1	67424.34	1420.92	2.94	212.00	400.00	400.00	0.00	100.00	0.00	400.00
101	1	2	36	1	71500.00	1424.31	3.00	0.03	3025.96	400.00	0.00	120.00	0.00	3025.96
102	1	3	36	1	71500.00	1424.31	3.00	0.03	823.55	400.00	0.00	130.00	0.00	823.55
103	1	4	36	1	69016.18	1422.24	2.96	212.00	400.00	400.00	0.00	140.00	0.00	400.00
104	1	5	36	1	60951.50	1415.53	2.85	212.00	400.00	400.00	0.00	150.00	0.00	400.00
105	1	6	36	1	44677.76	1399.73	2.61	212.00	400.00	400.00	0.00	150.00	0.00	400.00
106	1	7	36	1	24114.33	1373.82	2.32	212.00	400.00	400.00	0.00	140.00	0.00	400.00
107	1	8	36	1	2175.54	1301.30	2.00	212.00	400.00	400.00	0.00	130.00	0.00	400.00
108	1	9	36	1	2000.00	1300.00	2.00	212.00	142.95	400.00	257.05	120.00	0.00	142.95
109	1	10	36	1	2000.00	1300.00	2.00	212.00	171.94	400.00	228.06	110.00	0.00	171.94
110	1	11	36	1	11568.99	1348.30	2.14	212.00	400.00	400.00	0.00	100.00	0.00	400.00
111	1	12	36	1	48850.74	1404.18	2.67	212.00	400.00	400.00	0.00	100.00	0.00	400.00
112	1	1	37	1	71500.00	1424.31	3.00	0.03	493.08	400.00	0.00	100.00	0.00	493.08
113	1	2	37	1	71500.00	1424.31	3.00	0.03	681.98	400.00	0.00	120.00	0.00	681.98
114	1	3	37	1	71500.00	1424.31	3.00	0.03	1285.55	400.00	0.00	130.00	0.00	1285.55
115	1	4	37	1	71500.00	1424.31	3.00	0.03	797.32	400.00	0.00	140.00	0.00	797.32
116	1	5	37	1	69341.65	1422.51	2.97	212.00	400.00	400.00	0.00	150.00	0.00	400.00
117	1	6	37	1	61642.09	1416.11	2.86	212.00	400.00	400.00	0.00	150.00	0.00	400.00
118	1	7	37	1	56711.52	1412.01	2.79	212.00	400.00	400.00	0.00	140.00	0.00	400.00
119	1	8	37	1	45922.93	1401.06	2.63	212.00	400.00	400.00	0.00	130.00	0.00	400.00
120	1	9	37	1	66926.41	1420.50	2.93	212.00	400.00	400.00	0.00	120.00	0.00	400.00
				SUM =	6480173.11	168291.95	329.79	16113.32	66678.20	48000.00	1725.45	14900.00	0.00	66678.20
				MAX =	71500.00	1424.31	3.00	212.00	3025.96	400.00	297.71	150.00	0.00	3025.96
				MIN =	2000.00	1300.00	2.00	0.03	102.29	400.00	0.00	100.00	0.00	102.29
				PMAX=	2.00	1.00	1.00	10.00	101.00	1.00	38.00	8.00	1.00	101.00
				AVG =	54001.44	1402.43	2.75	134.28	555.65	400.00	14.38	124.17	0.00	555.65
				PMIN=	109.00	37.00	37.00	1.00	38.00	1.00	1.00	2.00	1.00	38.00

RUN6 - SUMMARY OUTPUT

SUMMARY BY PERIOD FLOOD= 1

LOC NO=					4.	4.	4.	4.	4.	212.	212.	213.	213.	213.
CODE=					4.110	4.220	4.130	4.120	4.100	212.050	212.060	213.070	213.080	213.040
PER	DY	MO	YR	DW	RES NO.4 EOP STOR	RES NO.4 EOP ELEV	RES NO.4 LEVEL	RES NO.4 CASE	RES NO.4 OUTFLOW	DUMMY CP MIN DESI	DUMMY CP DEQ-SHOR	C.P. 213 MIN REQU	C.P. 213 REQ-SHOR	C.P. 213 FLOW REQ
1	1	10	27	1	71500.00	1424.31	3.00	0.03	1221.09	440.00	0.00	110.00	0.00	1221.09
2	1	11	27	1	71500.00	1424.31	3.00	0.03	1272.75	410.00	0.00	100.00	0.00	1272.75
3	1	12	27	1	71500.00	1424.31	3.00	0.03	501.16	400.00	0.00	100.00	0.00	501.16
4	1	1	28	1	71500.00	1424.31	3.00	0.03	735.78	420.00	0.00	100.00	0.00	735.78
5	1	2	28	1	71500.00	1424.31	3.00	0.03	649.88	440.00	0.00	120.00	0.00	649.88
6	1	3	28	1	71500.00	1424.31	3.00	0.03	1388.55	480.00	0.00	130.00	0.00	1388.55
7	1	4	28	1	71500.00	1424.31	3.00	0.03	1003.32	500.00	0.00	140.00	0.00	1003.32
8	1	5	28	1	71500.00	1424.31	3.00	0.03	1365.91	520.00	0.00	150.00	0.00	1365.91
9	1	6	28	1	71500.00	1424.31	3.00	0.03	1308.65	540.00	0.00	150.00	0.00	1308.65
10	1	7	28	1	59871.44	1414.64	2.83	212.00	550.00	550.00	0.00	140.00	0.00	550.00
11	1	8	28	1	44656.09	1399.71	2.61	212.00	530.00	530.00	0.00	130.00	0.00	530.00
12	1	9	28	1	25970.20	1376.45	2.34	212.00	490.00	490.00	0.00	120.00	0.00	490.00
13	1	10	28	1	10760.43	1345.26	2.13	212.00	440.00	440.00	0.00	110.00	0.00	440.00
14	1	11	28	1	2000.00	1300.00	2.00	212.00	408.99	410.00	1.01	100.00	0.00	408.99
15	1	12	28	1	7011.87	1331.14	2.07	212.00	400.00	400.00	0.00	100.00	0.00	400.00
16	1	1	29	1	7719.30	1333.81	2.08	212.00	420.00	420.00	0.00	100.00	0.00	420.00
17	1	2	29	1	46126.50	1401.28	2.63	212.00	440.00	440.00	0.00	120.00	0.00	440.00
18	1	3	29	1	71500.00	1424.31	3.00	0.03	820.39	480.00	0.00	130.00	0.00	820.39
19	1	4	29	1	71500.00	1424.31	3.00	0.03	814.32	500.00	0.00	140.00	0.00	814.32
20	1	5	29	1	56978.56	1412.23	2.79	212.00	520.00	520.00	0.00	150.00	0.00	520.00
21	1	6	29	1	34573.10	1388.61	2.47	212.00	540.00	540.00	0.00	150.00	0.00	540.00
22	1	7	29	1	10004.71	1342.41	2.12	212.00	550.00	550.00	0.00	140.00	0.00	550.00
23	1	8	29	1	2000.00	1300.00	2.00	212.00	338.29	530.00	191.71	130.00	0.00	338.29
24	1	9	29	1	9021.28	1338.71	2.10	212.00	490.00	490.00	0.00	120.00	0.00	490.00
25	1	10	29	1	19702.55	1366.36	2.25	212.00	440.00	440.00	0.00	110.00	0.00	440.00
26	1	11	29	1	28349.04	1379.81	2.38	212.00	410.00	410.00	0.00	100.00	0.00	410.00
27	1	12	29	1	36122.36	1390.60	2.49	212.00	400.00	400.00	0.00	100.00	0.00	400.00
28	1	1	30	1	39614.14	1394.33	2.54	212.00	420.00	420.00	0.00	100.00	0.00	420.00
29	1	2	30	1	57510.34	1412.67	2.80	212.00	440.00	440.00	0.00	120.00	0.00	440.00
30	1	3	30	1	71500.00	1424.31	3.00	0.03	666.75	480.00	0.00	130.00	0.00	666.75
31	1	4	30	1	71221.06	1424.08	3.00	212.00	500.00	500.00	0.00	140.00	0.00	500.00
32	1	5	30	1	71500.00	1424.31	3.00	0.03	571.37	520.00	0.00	150.00	0.00	571.37
33	1	6	30	1	58266.21	1413.30	2.81	212.00	540.00	540.00	0.00	150.00	0.00	540.00
34	1	7	30	1	30945.04	1383.48	2.42	212.00	550.00	550.00	0.00	140.00	0.00	550.00
35	1	8	30	1	4152.37	1315.92	2.03	212.00	530.00	530.00	0.00	130.00	0.00	530.00
36	1	9	30	1	1474.47	1292.60	1.69	213.00	120.00	490.00	370.00	120.00	0.00	120.00
37	1	10	30	1	300.00	1270.23	1.00	0.07	95.07	440.00	344.93	110.00	14.93	95.07
38	1	11	30	1	425.56	1274.61	1.07	213.00	100.00	410.00	310.00	100.00	0.00	100.00
39	1	12	30	1	1912.51	1298.77	1.95	213.00	100.00	400.00	300.00	100.00	0.00	100.00
40	1	1	31	1	2000.00	1300.00	2.00	212.00	162.75	420.00	257.25	100.00	0.00	162.75
41	1	2	31	1	14751.50	1355.82	2.18	212.00	440.00	440.00	0.00	120.00	0.00	440.00
42	1	3	31	1	39337.57	1394.03	2.54	212.00	480.00	480.00	0.00	130.00	0.00	480.00

RUN6 (CONTINUED)

LOC NO=					4.	4.	4.	4.	4.	212.	212.	213.	213.	213.
PER	DY	MO	YR	DW	RES NO.4 EOP STOR	RES NO.4 EOP ELEV	RES NO.4 LEVEL	RES NO.4 CASE	RES NO.4 OUTFLOW	DUMMY CP MIN DESI	DUMMY CP DEQ-SHOR	C.P. 213 MIN REQU	C.P. 213 REQ-SHOR	C.P. 213 FLOW REG
43	1	4	31	1	57619.37	1412.76	2.80	212.00	500.00	500.00	0.00	140.00	0.00	500.00
44	1	5	31	1	48255.94	1403.55	2.67	212.00	520.00	520.00	0.00	150.00	0.00	520.00
45	1	6	31	1	41142.86	1395.96	2.56	212.00	540.00	540.00	0.00	150.00	0.00	540.00
46	1	7	31	1	20023.44	1367.05	2.26	212.00	550.00	550.00	0.00	140.00	0.00	550.00
47	1	8	31	1	2000.00	1300.00	2.00	212.00	438.30	530.00	91.70	130.00	0.00	438.30
48	1	9	31	1	300.00	1270.23	1.00	0.07	102.57	490.00	387.43	120.00	17.43	102.57
49	1	10	31	1	300.00	1270.23	1.00	0.07	79.98	440.00	360.02	110.00	30.02	79.98
50	1	11	31	1	2000.00	1300.00	2.00	212.00	104.64	410.00	305.36	100.00	0.00	104.64
51	1	12	31	1	6641.80	1329.75	2.07	212.00	400.00	400.00	0.00	100.00	0.00	400.00
52	1	1	32	1	7471.19	1332.87	2.08	212.00	420.00	420.00	0.00	100.00	0.00	420.00
53	1	2	32	1	12686.85	1351.42	2.15	212.00	440.00	440.00	0.00	120.00	0.00	440.00
54	1	3	32	1	51304.91	1406.80	2.71	212.00	480.00	480.00	0.00	130.00	0.00	480.00
55	1	4	32	1	51862.14	1407.40	2.72	212.00	500.00	500.00	0.00	140.00	0.00	500.00
56	1	5	32	1	51475.33	1406.99	2.71	212.00	520.00	520.00	0.00	150.00	0.00	520.00
57	1	6	32	1	35793.11	1390.25	2.49	212.00	540.00	540.00	0.00	150.00	0.00	540.00
58	1	7	32	1	9995.36	1342.38	2.12	212.00	550.00	550.00	0.00	140.00	0.00	550.00
59	1	8	32	1	2000.00	1300.00	2.00	212.00	207.14	530.00	322.86	130.00	0.00	207.14
60	1	9	32	1	2000.00	1300.00	2.00	212.00	429.00	490.00	61.00	120.00	0.00	429.00
61	1	10	32	1	49010.59	1404.35	2.68	212.00	440.00	440.00	0.00	110.00	0.00	440.00
62	1	11	32	1	48628.09	1403.95	2.67	212.00	410.00	410.00	0.00	100.00	0.00	410.00
63	1	12	32	1	51159.73	1406.65	2.71	212.00	400.00	400.00	0.00	100.00	0.00	400.00
64	1	1	33	1	57815.68	1412.92	2.80	212.00	420.00	420.00	0.00	100.00	0.00	420.00
65	1	2	33	1	71500.00	1424.31	3.00	0.03	665.36	440.00	0.00	120.00	0.00	665.36
66	1	3	33	1	71500.00	1424.31	3.00	0.03	1227.55	480.00	0.00	130.00	0.00	1227.55
67	1	4	33	1	71500.00	1424.31	3.00	0.03	659.32	500.00	0.00	140.00	0.00	659.32
68	1	5	33	1	60976.58	1415.55	2.85	212.00	520.00	520.00	0.00	150.00	0.00	520.00
69	1	6	33	1	41488.96	1396.33	2.57	212.00	540.00	540.00	0.00	150.00	0.00	540.00
70	1	7	33	1	71174.55	1424.04	3.00	212.00	550.00	550.00	0.00	140.00	0.00	550.00
71	1	8	33	1	71500.00	1424.31	3.00	0.03	1232.41	530.00	0.00	130.00	0.00	1232.41
72	1	9	33	1	71500.00	1424.31	3.00	0.03	523.96	490.00	0.00	120.00	0.00	523.96
73	1	10	33	1	68063.30	1421.45	2.95	212.00	440.00	440.00	0.00	110.00	0.00	440.00
74	1	11	33	1	64997.98	1418.90	2.91	212.00	410.00	410.00	0.00	100.00	0.00	410.00
75	1	12	33	1	71500.00	1424.31	3.00	0.03	610.27	400.00	0.00	100.00	0.00	610.27
76	1	1	34	1	54376.20	1410.06	2.75	212.00	420.00	420.00	0.00	100.00	0.00	420.00
77	1	2	34	1	55566.14	1411.05	2.77	212.00	440.00	440.00	0.00	120.00	0.00	440.00
78	1	3	34	1	71500.00	1424.31	3.00	0.03	939.10	480.00	0.00	130.00	0.00	939.10
79	1	4	34	1	71500.00	1424.31	3.00	0.03	554.32	500.00	0.00	140.00	0.00	554.32
80	1	5	34	1	58454.75	1413.46	2.81	212.00	520.00	520.00	0.00	150.00	0.00	520.00
81	1	6	34	1	37894.87	1392.49	2.52	212.00	540.00	540.00	0.00	150.00	0.00	540.00
82	1	7	34	1	14620.43	1355.54	2.18	212.00	550.00	550.00	0.00	140.00	0.00	550.00
83	1	8	34	1	13588.54	1353.34	2.17	212.00	530.00	530.00	0.00	130.00	0.00	530.00
84	1	9	34	1	9660.65	1341.12	2.11	212.00	490.00	490.00	0.00	120.00	0.00	490.00
85	1	10	34	1	20709.95	1368.51	2.27	212.00	440.00	440.00	0.00	110.00	0.00	440.00
86	1	11	34	1	69050.99	1422.27	2.96	212.00	410.00	410.00	0.00	100.00	0.00	410.00
87	1	12	34	1	71500.00	1424.31	3.00	0.03	530.28	400.00	0.00	100.00	0.00	530.28
88	1	1	35	1	67608.99	1421.07	2.94	212.00	420.00	420.00	0.00	100.00	0.00	420.00
89	1	2	35	1	71500.00	1424.31	3.00	0.03	976.86	440.00	0.00	120.00	0.00	976.86
90	1	3	35	1	71500.00	1424.31	3.00	0.03	766.55	480.00	0.00	130.00	0.00	766.55

RUN6 (CONTINUED)

LOC NO=					4.	4.	4.	4.	4.	212.	212.	213.	213.	213.
PER	DY	MO	YR	DW	RES NO.4 EOP STOR	RES NO.4 EOP ELEV	RES NO.4 LEVEL	RES NO.4 CASE	RES NO.4 OUTFLOW	DUMMY CP MIN DESI	DUMMY CP DEQ-SHOR	C.P. 213 MIN REQU	C.P. 213 REQ-SHOR	C.P. 213 FLOW REQ
91	1	4	35	1	71500.00	1424.31	3.00	0.03	549.32	500.00	0.00	140.00	0.00	549.32
92	1	5	35	1	63436.89	1417.60	2.88	212.00	520.00	520.00	0.00	150.00	0.00	520.00
93	1	6	35	1	71500.00	1424.31	3.00	0.03	1042.12	540.00	0.00	150.00	0.00	1042.12
94	1	7	35	1	53228.51	1408.86	2.74	212.00	550.00	550.00	0.00	140.00	0.00	550.00
95	1	8	35	1	32167.67	1385.21	2.43	212.00	530.00	530.00	0.00	130.00	0.00	530.00
96	1	9	35	1	13660.60	1353.49	2.17	212.00	490.00	490.00	0.00	120.00	0.00	490.00
97	1	10	35	1	40194.59	1394.95	2.55	212.00	440.00	440.00	0.00	110.00	0.00	440.00
98	1	11	35	1	57485.14	1412.65	2.80	212.00	410.00	410.00	0.00	100.00	0.00	410.00
99	1	12	35	1	70816.90	1423.74	2.99	212.00	400.00	400.00	0.00	100.00	0.00	400.00
100	1	1	36	1	65508.97	1419.33	2.91	212.00	420.00	420.00	0.00	100.00	0.00	420.00
101	1	2	36	1	71500.00	1424.31	3.00	0.03	2992.63	440.00	0.00	120.00	0.00	2992.63
102	1	3	36	1	71500.00	1424.31	3.00	0.03	823.55	480.00	0.00	130.00	0.00	823.55
103	1	4	36	1	63057.04	1417.29	2.88	212.00	500.00	500.00	0.00	140.00	0.00	500.00
104	1	5	36	1	47607.65	1402.86	2.66	212.00	520.00	520.00	0.00	150.00	0.00	520.00
105	1	6	36	1	22996.47	1372.24	2.30	212.00	540.00	540.00	0.00	150.00	0.00	540.00
106	1	7	36	1	2000.00	1300.00	2.00	212.00	406.73	550.00	143.27	140.00	0.00	406.73
107	1	8	36	1	300.00	1270.23	1.00	0.07	70.68	530.00	459.32	130.00	59.32	70.68
108	1	9	36	1	1490.02	1292.82	1.70	213.00	120.00	490.00	370.00	120.00	0.00	120.00
109	1	10	36	1	2000.00	1300.00	2.00	212.00	163.65	440.00	276.35	110.00	0.00	163.65
110	1	11	36	1	10972.32	1346.06	2.13	212.00	410.00	410.00	0.00	100.00	0.00	410.00
111	1	12	36	1	48252.28	1403.55	2.67	212.00	400.00	400.00	0.00	100.00	0.00	400.00
112	1	1	37	1	71500.00	1424.31	3.00	0.03	483.33	420.00	0.00	100.00	0.00	483.33
113	1	2	37	1	71500.00	1424.31	3.00	0.03	681.98	440.00	0.00	120.00	0.00	681.98
114	1	3	37	1	71500.00	1424.31	3.00	0.03	1285.55	480.00	0.00	130.00	0.00	1285.55
115	1	4	37	1	71500.00	1424.31	3.00	0.03	797.32	500.00	0.00	140.00	0.00	797.32
116	1	5	37	1	61960.70	1416.37	2.86	212.00	520.00	520.00	0.00	150.00	0.00	520.00
117	1	6	37	1	45925.42	1401.06	2.63	212.00	540.00	540.00	0.00	150.00	0.00	540.00
118	1	7	37	1	31759.46	1384.63	2.43	212.00	550.00	550.00	0.00	140.00	0.00	550.00
119	1	8	37	1	12964.03	1352.01	2.16	212.00	530.00	530.00	0.00	130.00	0.00	530.00
120	1	9	37	1	28612.89	1380.18	2.38	212.00	490.00	490.00	0.00	120.00	0.00	490.00
				SUM =	5104894.99	166064.55	304.55	17813.24	67239.47	57200.00	4552.22	14900.00	121.71	67239.47
				MAX =	71500.00	1424.31	3.00	213.00	2992.63	550.00	459.32	150.00	59.32	2992.63
				MIN =	300.00	1270.23	1.00	0.03	70.68	400.00	0.00	100.00	0.00	70.68
				PMAX=	2.00	1.00	1.00	36.00	101.00	10.00	107.00	8.00	107.00	101.00
				AVG =	42540.79	1383.87	2.54	148.44	560.33	476.67	37.94	124.17	1.01	560.33
				PMIN=	37.00	37.00	37.00	1.00	107.00	3.00	1.00	2.00	1.00	107.00

RUN7 - SUMMARY OUTPUT

SUMMARY BY PERIOD FLOOD= 1

LOC NO=					4.	4.	4.	4.	4.	213.	213.	213.	213.	213.
CODE=					4.110	4.220	4.130	4.120	4.100	213.050	213.060	213.070	213.080	213.040
PER	DY	MO	YR	DW	RES NO.4 EOP STOR	RES NO.4 EOP ELEV	RES NO.4 LEVEL	RES NO.4 CASE	RES NO.4 OUTFLOW	C.P. 213 MIN DESI	C.P. 213 DEQ-SHOR	C.P. 213 MIN REQU	C.P. 213 REQ-SHOR	C.P. 213 FLOW REQ
1	1	10	27	1	71500.00	1424.31	3.00	0.03	1221.09	200.00	0.00	100.00	0.00	1221.09
2	1	11	27	1	71500.00	1424.31	3.00	0.03	1272.75	190.00	0.00	100.00	0.00	1272.75
3	1	12	27	1	71500.00	1424.31	3.00	0.03	501.16	180.00	0.00	100.00	0.00	501.16
4	1	1	28	1	71500.00	1424.31	3.00	0.03	735.78	170.00	0.00	100.00	0.00	735.78
5	1	2	28	1	71500.00	1424.31	3.00	0.03	649.88	160.00	0.00	100.00	0.00	649.88
6	1	3	28	1	71500.00	1424.31	3.00	0.03	1388.55	170.00	0.00	100.00	0.00	1388.55
7	1	4	28	1	71500.00	1424.31	3.00	0.03	1003.32	160.00	0.00	100.00	0.00	1003.32
8	1	5	28	1	71500.00	1424.31	3.00	0.03	1365.91	150.00	0.00	100.00	0.00	1365.91
9	1	6	28	1	71500.00	1424.31	3.00	0.03	1308.65	155.00	0.00	100.00	0.00	1308.65
10	1	7	28	1	71500.00	1424.31	3.00	0.03	360.94	140.00	0.00	100.00	0.00	360.94
11	1	8	28	1	71500.00	1424.31	3.00	0.03	282.70	110.00	0.00	100.00	0.00	282.70
12	1	9	28	1	71500.00	1424.31	3.00	0.03	175.96	120.00	0.00	100.00	0.00	175.96
13	1	10	28	1	71500.00	1424.31	3.00	0.03	192.09	115.00	0.00	100.00	0.00	192.09
14	1	11	28	1	71500.00	1424.31	3.00	0.03	265.75	145.00	0.00	100.00	0.00	265.75
15	1	12	28	1	71500.00	1424.31	3.00	0.03	485.16	155.00	0.00	100.00	0.00	485.16
16	1	1	29	1	71500.00	1424.31	3.00	0.03	433.78	120.00	0.00	100.00	0.00	433.78
17	1	2	29	1	71500.00	1424.31	3.00	0.03	1132.98	110.00	0.00	100.00	0.00	1132.98
18	1	3	29	1	71500.00	1424.31	3.00	0.03	1233.55	140.00	0.00	100.00	0.00	1233.55
19	1	4	29	1	71500.00	1424.31	3.00	0.03	814.32	110.00	0.00	100.00	0.00	814.32
20	1	5	29	1	71500.00	1424.31	3.00	0.03	283.91	125.00	0.00	100.00	0.00	283.91
21	1	6	29	1	71500.00	1424.31	3.00	0.03	163.65	110.00	0.00	100.00	0.00	163.65
22	1	7	29	1	71500.00	1424.31	3.00	0.03	150.94	140.00	0.00	100.00	0.00	150.94
23	1	8	29	1	71500.00	1424.31	3.00	0.03	208.70	160.00	0.00	100.00	0.00	208.70
24	1	9	29	1	71500.00	1424.31	3.00	0.03	607.96	180.00	0.00	100.00	0.00	607.96
25	1	10	29	1	71500.00	1424.31	3.00	0.03	613.09	175.00	0.00	100.00	0.00	613.09
26	1	11	29	1	71500.00	1424.31	3.00	0.03	557.75	165.00	0.00	100.00	0.00	557.75
27	1	12	29	1	71500.00	1424.31	3.00	0.03	528.16	150.00	0.00	100.00	0.00	528.16
28	1	1	30	1	71500.00	1424.31	3.00	0.03	477.78	140.00	0.00	100.00	0.00	477.78
29	1	2	30	1	71500.00	1424.31	3.00	0.03	762.98	145.00	0.00	100.00	0.00	762.98
30	1	3	30	1	71500.00	1424.31	3.00	0.03	894.55	155.00	0.00	100.00	0.00	894.55
31	1	4	30	1	71500.00	1424.31	3.00	0.03	495.32	170.00	0.00	100.00	0.00	495.32
32	1	5	30	1	71500.00	1424.31	3.00	0.03	575.91	180.00	0.00	100.00	0.00	575.91
33	1	6	30	1	71500.00	1424.31	3.00	0.03	317.65	190.00	0.00	100.00	0.00	317.65
34	1	7	30	1	66022.31	1419.75	2.92	213.00	195.00	195.00	0.00	100.00	0.00	195.00
35	1	8	30	1	47242.63	1402.47	2.65	213.00	400.00	400.00	0.00	100.00	0.00	400.00
36	1	9	30	1	40398.04	1395.16	2.55	213.00	190.00	190.00	0.00	100.00	0.00	190.00
37	1	10	30	1	33967.67	1387.75	2.46	213.00	180.00	180.00	0.00	100.00	0.00	180.00
38	1	11	30	1	29190.96	1381.00	2.39	213.00	185.00	185.00	0.00	100.00	0.00	185.00
39	1	12	30	1	26190.22	1376.76	2.35	213.00	175.00	175.00	0.00	100.00	0.00	175.00
40	1	1	31	1	26216.06	1376.79	2.35	213.00	165.00	165.00	0.00	100.00	0.00	165.00
41	1	2	31	1	54595.54	1410.25	2.76	213.00	160.00	160.00	0.00	100.00	0.00	160.00
42	1	3	31	1	71500.00	1424.31	3.00	0.03	606.29	145.00	0.00	100.00	0.00	606.29

RUN7 (CONTINUED)

LOC NO=					4.	4.	4.	4.	4.	213.	213.	213.	213.	213.
PER	DY	MO	YR	DW	RES NO.4 EOP STOR	RES NO.4 EOP ELEV	RES NO.4 LEVEL	RES NO.4 CASE	RES NO.4 OUTFLOW	C.P. 213 MIN DESI	C.P. 213 DEF-SHOR	C.P. 213 MIN REQU	C.P. 213 REF-SHOR	C.P. 213 FLOW REG
43	1	4	31	1	71500.00	1424.31	3.00	0.03	808.32	150.00	0.00	100.00	0.00	808.32
44	1	5	31	1	71500.00	1424.31	3.00	0.03	367.91	110.00	0.00	100.00	0.00	367.91
45	1	6	31	1	71500.00	1424.31	3.00	0.03	420.65	120.00	0.00	100.00	0.00	420.65
46	1	7	31	1	71500.00	1424.31	3.00	0.03	206.94	110.00	0.00	100.00	0.00	206.94
47	1	8	31	1	71500.00	1424.31	3.00	0.03	145.70	145.00	0.00	100.00	0.00	145.70
48	1	9	31	1	68760.65	1422.03	2.96	213.00	120.00	120.00	0.00	100.00	0.00	120.00
49	1	10	31	1	65018.33	1418.92	2.91	213.00	140.00	140.00	0.00	100.00	0.00	140.00
50	1	11	31	1	64267.68	1418.29	2.90	213.00	150.00	150.00	0.00	100.00	0.00	150.00
51	1	12	31	1	71500.00	1424.31	3.00	0.03	361.37	110.00	0.00	100.00	0.00	361.37
52	1	1	32	1	71500.00	1424.31	3.00	0.03	435.78	115.00	0.00	100.00	0.00	435.78
53	1	2	32	1	71500.00	1424.31	3.00	0.03	532.88	140.00	0.00	100.00	0.00	532.88
54	1	3	32	1	71500.00	1424.31	3.00	0.03	1109.55	145.00	0.00	100.00	0.00	1109.55
55	1	4	32	1	71500.00	1424.31	3.00	0.03	510.32	120.00	0.00	100.00	0.00	510.32
56	1	5	32	1	71500.00	1424.31	3.00	0.03	513.91	115.00	0.00	100.00	0.00	513.91
57	1	6	32	1	71500.00	1424.31	3.00	0.03	276.65	100.00	0.00	100.00	0.00	276.65
58	1	7	32	1	71500.00	1424.31	3.00	0.03	130.94	110.00	0.00	100.00	0.00	130.94
59	1	8	32	1	69820.93	1422.91	2.98	213.00	105.00	105.00	0.00	100.00	0.00	105.00
60	1	9	32	1	71500.00	1424.31	3.00	0.03	400.75	110.00	0.00	100.00	0.00	400.75
61	1	10	32	1	71500.00	1424.31	3.00	0.03	1204.09	120.00	0.00	100.00	0.00	1204.09
62	1	11	32	1	71500.00	1424.31	3.00	0.03	404.75	125.00	0.00	100.00	0.00	404.75
63	1	12	32	1	71500.00	1424.31	3.00	0.03	442.16	120.00	0.00	100.00	0.00	442.16
64	1	1	33	1	71500.00	1424.31	3.00	0.03	528.78	225.00	0.00	100.00	0.00	528.78
65	1	2	33	1	71500.00	1424.31	3.00	0.03	911.98	225.00	0.00	100.00	0.00	911.98
66	1	3	33	1	71500.00	1424.31	3.00	0.03	1227.55	245.00	0.00	100.00	0.00	1227.55
67	1	4	33	1	71500.00	1424.31	3.00	0.03	659.32	240.00	0.00	100.00	0.00	659.32
68	1	5	33	1	71500.00	1424.31	3.00	0.03	348.91	255.00	0.00	100.00	0.00	348.91
69	1	6	33	1	68681.86	1421.96	2.96	213.00	260.00	260.00	0.00	100.00	0.00	260.00
70	1	7	33	1	71500.00	1424.31	3.00	0.03	987.10	270.00	0.00	100.00	0.00	987.10
71	1	8	33	1	71500.00	1424.31	3.00	0.03	1237.70	110.00	0.00	100.00	0.00	1237.70
72	1	9	33	1	71500.00	1424.31	3.00	0.03	523.96	125.00	0.00	100.00	0.00	523.96
73	1	10	33	1	71500.00	1424.31	3.00	0.03	384.09	240.00	0.00	100.00	0.00	384.09
74	1	11	33	1	71500.00	1424.31	3.00	0.03	358.75	260.00	0.00	100.00	0.00	358.75
75	1	12	33	1	71500.00	1424.31	3.00	0.03	716.16	265.00	0.00	100.00	0.00	716.16
76	1	1	34	1	64531.59	1418.51	2.90	213.00	255.00	255.00	0.00	100.00	0.00	255.00
77	1	2	34	1	71500.00	1424.31	3.00	0.03	336.39	265.00	0.00	100.00	0.00	336.39
78	1	3	34	1	71500.00	1424.31	3.00	0.03	1198.55	270.00	0.00	100.00	0.00	1198.55
79	1	4	34	1	71500.00	1424.31	3.00	0.03	554.32	260.00	0.00	100.00	0.00	554.32
80	1	5	34	1	71500.00	1424.31	3.00	0.03	307.91	255.00	0.00	100.00	0.00	307.91
81	1	6	34	1	71500.00	1424.31	3.00	0.03	194.65	160.00	0.00	100.00	0.00	194.65
82	1	7	34	1	71500.00	1424.31	3.00	0.03	171.94	145.00	0.00	100.00	0.00	171.94
83	1	8	34	1	71500.00	1424.31	3.00	0.03	513.70	150.00	0.00	100.00	0.00	513.70
84	1	9	34	1	71500.00	1424.31	3.00	0.03	423.96	110.00	0.00	100.00	0.00	423.96
85	1	10	34	1	71500.00	1424.31	3.00	0.03	619.09	120.00	0.00	100.00	0.00	619.09
86	1	11	34	1	71500.00	1424.31	3.00	0.03	1223.75	110.00	0.00	100.00	0.00	1223.75
87	1	12	34	1	71500.00	1424.31	3.00	0.03	570.16	145.00	0.00	100.00	0.00	570.16
88	1	1	35	1	71500.00	1424.31	3.00	0.03	356.78	120.00	0.00	100.00	0.00	356.78
89	1	2	35	1	71500.00	1424.31	3.00	0.03	1046.98	140.00	0.00	100.00	0.00	1046.98
90	1	3	35	1	71500.00	1424.31	3.00	0.03	766.55	150.00	0.00	100.00	0.00	766.55

LOC NO=					4.	4.	4.	4.	4.	213.	213.	213.	213.	213.
PER	DY	MO	YR	DW	RES NO.4 EOP STOR	RES NO.4 EOP ELEV	RES NO.4 LEVEL	RES NO.4 CASE	RES NO.4 OUTFLOW	C.P. 213 MIN DESI	C.P. 213 DEQ-SHOR	C.P. 213 MIN REQU	C.P. 213 REQ-SHOR	C.P. 213 FLOW REG
91	1	4	35	1	71500.00	1424.31	3.00	0.03	549.32	110.00	0.00	100.00	0.00	549.32
92	1	5	35	1	71500.00	1424.31	3.00	0.03	388.91	115.00	0.00	100.00	0.00	388.91
93	1	6	35	1	71500.00	1424.31	3.00	0.03	1177.65	140.00	0.00	100.00	0.00	1177.65
94	1	7	35	1	71500.00	1424.31	3.00	0.03	252.94	145.00	0.00	100.00	0.00	252.94
95	1	8	35	1	71500.00	1424.31	3.00	0.03	187.70	120.00	0.00	100.00	0.00	187.70
96	1	9	35	1	71500.00	1424.31	3.00	0.03	178.96	115.00	0.00	100.00	0.00	178.96
97	1	10	35	1	71500.00	1424.31	3.00	0.03	871.09	100.00	0.00	100.00	0.00	871.09
98	1	11	35	1	71500.00	1424.31	3.00	0.03	701.75	110.00	0.00	100.00	0.00	701.75
99	1	12	35	1	71500.00	1424.31	3.00	0.03	617.16	105.00	0.00	100.00	0.00	617.16
100	1	1	36	1	71500.00	1424.31	3.00	0.03	333.78	110.00	0.00	100.00	0.00	333.78
101	1	2	36	1	71500.00	1424.31	3.00	0.03	3096.88	120.00	0.00	100.00	0.00	3096.88
102	1	3	36	1	71500.00	1424.31	3.00	0.03	823.55	125.00	0.00	100.00	0.00	823.55
103	1	4	36	1	71500.00	1424.31	3.00	0.03	358.32	120.00	0.00	100.00	0.00	358.32
104	1	5	36	1	71500.00	1424.31	3.00	0.03	268.91	225.00	0.00	100.00	0.00	268.91
105	1	6	36	1	65646.44	1419.44	2.92	213.00	225.00	225.00	0.00	100.00	0.00	225.00
106	1	7	36	1	54629.13	1410.27	2.76	213.00	245.00	245.00	0.00	100.00	0.00	245.00
107	1	8	36	1	42548.13	1397.46	2.58	213.00	240.00	240.00	0.00	100.00	0.00	240.00
108	1	9	36	1	35703.64	1390.15	2.48	213.00	255.00	255.00	0.00	100.00	0.00	255.00
109	1	10	36	1	30259.67	1382.51	2.41	213.00	260.00	260.00	0.00	100.00	0.00	260.00
110	1	11	36	1	47701.05	1402.96	2.66	213.00	270.00	270.00	0.00	100.00	0.00	270.00
111	1	12	36	1	71500.00	1424.31	3.00	0.03	620.56	110.00	0.00	100.00	0.00	620.56
112	1	1	37	1	71500.00	1424.31	3.00	0.03	861.78	125.00	0.00	100.00	0.00	861.78
113	1	2	37	1	71500.00	1424.31	3.00	0.03	681.98	240.00	0.00	100.00	0.00	681.98
114	1	3	37	1	71500.00	1424.31	3.00	0.03	1285.55	260.00	0.00	100.00	0.00	1285.55
115	1	4	37	1	71500.00	1424.31	3.00	0.03	797.32	265.00	0.00	100.00	0.00	797.32
116	1	5	37	1	71500.00	1424.31	3.00	0.03	364.91	255.00	0.00	100.00	0.00	364.91
117	1	6	37	1	71500.00	1424.31	3.00	0.03	270.65	265.00	0.00	100.00	0.00	270.65
118	1	7	37	1	71500.00	1424.31	3.00	0.03	319.94	270.00	0.00	100.00	0.00	319.94
119	1	8	37	1	69328.90	1422.50	2.97	213.00	260.00	260.00	0.00	100.00	0.00	260.00
120	1	9	37	1	71500.00	1424.31	3.00	0.03	716.48	255.00	0.00	100.00	0.00	716.48
			SUM =		8149221.44	170504.49	353.80	4475.97	66671.84	20295.00	0.00	12000.00	0.00	66671.84
			MAX =		71500.00	1424.31	3.00	213.00	3096.88	400.00	0.00	100.00	0.00	3096.88
			MIN =		26190.22	1376.76	2.35	0.03	105.00	100.00	0.00	100.00	0.00	105.00
			PMAX=		101.00	1.00	1.00	34.00	101.00	35.00	1.00	1.00	1.00	101.00
			AVG =		67910.18	1420.87	2.95	37.30	555.60	169.13	0.00	100.00	0.00	555.60
			PMIN=		39.00	39.00	39.00	1.00	59.00	57.00	1.00	1.00	1.00	59.00

RUN8 - SUMMARY OUTPUT

SUMMARY BY PERIOD FLOOD= 1

LOC NO=					4.	4.	4.	4.	4.	212.	212.	213.	213.	213.
CODE=					4.110	4.220	4.130	4.120	4.100	212.050	212.060	213.070	213.080	213.040
PER	DY	MO	YR	DW	RES NO.4 EOP STOR	RES NO.4 EOP ELEV	RES NO.4 LEVEL	RES NO.4 CASE	RES NO.4 OUTFLOW	DUMMY CP MIN DESI	DUMMY CP DEQ-SHOR	C.P. 213 MIN REQU	C.P. 213 REQ-SHOR	C.P. 213 FLOW REQ
1	1	10	27	1	71500.00	1424.31	3.00	0.03	1221.09	400.00	0.00	100.00	0.00	1221.09
2	1	11	27	1	71500.00	1424.31	3.00	0.03	1272.75	400.00	0.00	190.00	0.00	1272.75
3	1	12	27	1	71500.00	1424.31	3.00	0.03	501.16	400.00	0.00	180.00	0.00	501.16
4	1	1	28	1	71500.00	1424.31	3.00	0.03	735.78	400.00	0.00	170.00	0.00	735.78
5	1	2	28	1	71500.00	1424.31	3.00	0.03	649.88	400.00	0.00	160.00	0.00	649.88
6	1	3	28	1	71500.00	1424.31	3.00	0.03	1388.55	400.00	0.00	170.00	0.00	1388.55
7	1	4	28	1	71500.00	1424.31	3.00	0.03	1003.32	400.00	0.00	160.00	0.00	1003.32
8	1	5	28	1	71500.00	1424.31	3.00	0.03	1365.91	400.00	0.00	150.00	0.00	1365.91
9	1	6	28	1	71500.00	1424.31	3.00	0.03	1308.65	400.00	0.00	155.00	0.00	1308.65
10	1	7	28	1	69097.74	1422.31	2.97	212.00	400.00	400.00	0.00	140.00	0.00	400.00
11	1	8	28	1	61882.20	1416.31	2.86	212.00	400.00	400.00	0.00	110.00	0.00	400.00
12	1	9	28	1	48551.32	1403.86	2.67	212.00	400.00	400.00	0.00	110.00	0.00	400.00
13	1	10	28	1	35784.87	1390.24	2.49	212.00	400.00	400.00	0.00	115.00	0.00	400.00
14	1	11	28	1	27676.37	1378.86	2.37	212.00	400.00	400.00	0.00	145.00	0.00	400.00
15	1	12	28	1	32799.72	1386.10	2.44	212.00	400.00	400.00	0.00	155.00	0.00	400.00
16	1	1	29	1	34808.36	1388.94	2.47	212.00	400.00	400.00	0.00	110.00	0.00	400.00
17	1	2	29	1	71500.00	1424.31	3.00	0.03	471.71	400.00	0.00	110.00	0.00	471.71
18	1	3	29	1	71500.00	1424.31	3.00	0.03	1233.55	400.00	0.00	140.00	0.00	1233.55
19	1	4	29	1	71500.00	1424.31	3.00	0.03	814.32	400.00	0.00	110.00	0.00	814.32
20	1	5	29	1	64359.51	1418.37	2.90	212.00	400.00	400.00	0.00	115.00	0.00	400.00
21	1	6	29	1	50289.35	1405.72	2.69	212.00	400.00	400.00	0.00	110.00	0.00	400.00
22	1	7	29	1	34957.29	1389.15	2.47	212.00	400.00	400.00	0.00	140.00	0.00	400.00
23	1	8	29	1	23174.91	1372.49	2.30	212.00	400.00	400.00	0.00	160.00	0.00	400.00
24	1	9	29	1	35550.77	1389.99	2.48	212.00	400.00	400.00	0.00	180.00	0.00	400.00
25	1	10	29	1	48671.01	1403.99	2.67	212.00	400.00	400.00	0.00	175.00	0.00	400.00
26	1	11	29	1	58000.50	1413.08	2.81	212.00	400.00	400.00	0.00	165.00	0.00	400.00
27	1	12	29	1	65853.36	1419.61	2.92	212.00	400.00	400.00	0.00	150.00	0.00	400.00
28	1	1	30	1	70629.70	1423.59	2.99	212.00	400.00	400.00	0.00	140.00	0.00	400.00
29	1	2	30	1	71500.00	1424.31	3.00	0.03	747.30	400.00	0.00	145.00	0.00	747.30
30	1	3	30	1	71500.00	1424.31	3.00	0.03	894.55	400.00	0.00	155.00	0.00	894.55
31	1	4	30	1	71500.00	1424.31	3.00	0.03	495.32	400.00	0.00	170.00	0.00	495.32
32	1	5	30	1	71500.00	1424.31	3.00	0.03	575.91	400.00	0.00	180.00	0.00	575.91
33	1	6	30	1	66598.73	1420.23	2.93	212.00	400.00	400.00	0.00	190.00	0.00	400.00
34	1	7	30	1	48508.55	1403.82	2.67	212.00	400.00	400.00	0.00	195.00	0.00	400.00
35	1	8	30	1	29721.25	1381.75	2.40	212.00	400.00	400.00	0.00	400.00	0.00	400.00
36	1	9	30	1	10381.21	1343.83	2.12	212.00	400.00	400.00	0.00	190.00	0.00	400.00
37	1	10	30	1	2000.00	1300.00	2.00	212.00	212.16	400.00	187.84	180.00	0.00	212.16
38	1	11	30	1	300.00	1270.23	1.00	0.07	130.78	400.00	269.22	185.00	54.22	130.78
39	1	12	30	1	300.00	1270.23	1.00	0.07	124.09	400.00	275.91	175.00	50.91	124.09
40	1	1	31	1	300.00	1270.23	1.00	0.07	164.06	400.00	235.94	165.00	0.94	164.06
41	1	2	31	1	15271.14	1356.92	2.19	212.00	400.00	400.00	0.00	160.00	0.00	400.00
42	1	3	31	1	44783.88	1399.84	2.62	212.00	400.00	400.00	0.00	145.00	0.00	400.00

RUN8 (CONTINUED)

LOC NO=					4.	4.	4.	4.	4.	212.	212.	213.	213.	213.
PER	DY	MO	YR	DW	RES NO.4 EOP STOR	RES NO.4 EOP ELEV	RES NO.4 LEVEL	RES NO.4 CASE	RES NO.4 OUTFLOW	DUMMY CP MIN DESI	DUMMY CP DEQ-SHOR	C.P. 213 MIN REQU	C.P. 213 REQ-SHOR	C.P. 213 FLOW REG
43	1	4	31	1	69038.61	1422.26	2.96	212.00	400.00	400.00	0.00	150.00	0.00	400.00
44	1	5	31	1	67063.23	1420.62	2.94	212.00	400.00	400.00	0.00	110.00	0.00	400.00
45	1	6	31	1	68290.37	1421.64	2.95	212.00	400.00	400.00	0.00	110.00	0.00	400.00
46	1	7	31	1	56413.68	1411.76	2.78	212.00	400.00	400.00	0.00	110.00	0.00	400.00
47	1	8	31	1	40766.34	1395.56	2.56	212.00	400.00	400.00	0.00	145.00	0.00	400.00
48	1	9	31	1	21366.49	1369.91	2.28	212.00	400.00	400.00	0.00	110.00	0.00	400.00
49	1	10	31	1	2000.00	1300.00	2.00	212.00	394.72	400.00	5.28	140.00	0.00	394.72
50	1	11	31	1	1002.87	1285.96	1.41	213.00	150.00	400.00	250.00	150.00	0.00	150.00
51	1	12	31	1	5638.51	1325.97	2.05	212.00	400.00	400.00	0.00	110.00	0.00	400.00
52	1	1	32	1	7696.38	1333.72	2.08	212.00	400.00	400.00	0.00	115.00	0.00	400.00
53	1	2	32	1	15217.30	1356.81	2.19	212.00	400.00	400.00	0.00	140.00	0.00	400.00
54	1	3	32	1	58766.62	1413.72	2.82	212.00	400.00	400.00	0.00	145.00	0.00	400.00
55	1	4	32	1	65303.71	1419.15	2.91	212.00	400.00	400.00	0.00	110.00	0.00	400.00
56	1	5	32	1	71500.00	1424.31	3.00	0.03	413.11	400.00	0.00	115.00	0.00	413.11
57	1	6	32	1	64158.49	1418.20	2.89	212.00	400.00	400.00	0.00	100.00	0.00	400.00
58	1	7	32	1	47604.43	1402.85	2.66	212.00	400.00	400.00	0.00	110.00	0.00	400.00
59	1	8	32	1	27771.22	1378.99	2.37	212.00	400.00	400.00	0.00	105.00	0.00	400.00
60	1	9	32	1	29495.71	1381.43	2.40	212.00	400.00	400.00	0.00	110.00	0.00	400.00
61	1	10	32	1	71500.00	1424.31	3.00	0.03	521.18	400.00	0.00	110.00	0.00	521.18
62	1	11	32	1	71500.00	1424.31	3.00	0.03	404.75	400.00	0.00	115.00	0.00	404.75
63	1	12	32	1	71500.00	1424.31	3.00	0.03	442.16	400.00	0.00	110.00	0.00	442.16
64	1	1	33	1	71500.00	1424.31	3.00	0.03	528.78	400.00	0.00	115.00	0.00	528.78
65	1	2	33	1	71500.00	1424.31	3.00	0.03	911.98	400.00	0.00	115.00	0.00	911.98
66	1	3	33	1	71500.00	1424.31	3.00	0.03	1227.55	400.00	0.00	145.00	0.00	1227.55
67	1	4	33	1	71500.00	1424.31	3.00	0.03	659.32	400.00	0.00	140.00	0.00	659.32
68	1	5	33	1	68357.52	1421.70	2.95	212.00	400.00	400.00	0.00	155.00	0.00	400.00
69	1	6	33	1	57205.49	1412.42	2.79	212.00	400.00	400.00	0.00	160.00	0.00	400.00
70	1	7	33	1	71500.00	1424.31	3.00	0.03	800.39	400.00	0.00	170.00	0.00	800.39
71	1	8	33	1	71500.00	1424.31	3.00	0.03	1237.70	400.00	0.00	110.00	0.00	1237.70
72	1	9	33	1	71500.00	1424.31	3.00	0.03	523.96	400.00	0.00	115.00	0.00	523.96
73	1	10	33	1	70522.06	1423.50	2.99	212.00	400.00	400.00	0.00	140.00	0.00	400.00
74	1	11	33	1	68060.60	1421.45	2.95	212.00	400.00	400.00	0.00	160.00	0.00	400.00
75	1	12	33	1	71500.00	1424.31	3.00	0.03	660.15	400.00	0.00	165.00	0.00	660.15
76	1	1	34	1	55607.15	1411.09	2.77	212.00	400.00	400.00	0.00	155.00	0.00	400.00
77	1	2	34	1	59022.99	1413.93	2.82	212.00	400.00	400.00	0.00	165.00	0.00	400.00
78	1	3	34	1	71500.00	1424.31	3.00	0.03	995.38	400.00	0.00	170.00	0.00	995.38
79	1	4	34	1	71500.00	1424.31	3.00	0.03	554.32	400.00	0.00	160.00	0.00	554.32
80	1	5	34	1	65835.70	1419.60	2.92	212.00	400.00	400.00	0.00	155.00	0.00	400.00
81	1	6	34	1	53611.24	1409.26	2.74	212.00	400.00	400.00	0.00	100.00	0.00	400.00
82	1	7	34	1	39572.73	1394.28	2.54	212.00	400.00	400.00	0.00	190.00	0.00	400.00
83	1	8	34	1	46550.80	1401.73	2.64	212.00	400.00	400.00	0.00	180.00	0.00	400.00
84	1	9	34	1	47977.34	1403.25	2.66	212.00	400.00	400.00	0.00	170.00	0.00	400.00
85	1	10	34	1	61459.48	1415.96	2.86	212.00	400.00	400.00	0.00	160.00	0.00	400.00
86	1	11	34	1	71500.00	1424.31	3.00	0.03	1054.75	400.00	0.00	170.00	0.00	1054.75
87	1	12	34	1	71500.00	1424.31	3.00	0.03	570.16	400.00	0.00	160.00	0.00	570.16
88	1	1	35	1	68839.94	1422.10	2.96	212.00	400.00	400.00	0.00	150.00	0.00	400.00
89	1	2	35	1	71500.00	1424.31	3.00	0.03	999.04	400.00	0.00	155.00	0.00	999.04
90	1	3	35	1	71500.00	1424.31	3.00	0.03	766.55	400.00	0.00	140.00	0.00	766.55

RUN8 (CONTINUED)

LOC NO=					4.	4.	4.	4.	4.	212.	212.	213.	213.	213.
PER	DY	MO	YR	DW	RES NO.4 EOP STOR	RES NO.4 EOP ELEV	RES NO.4 LEVEL	RES NO.4 CASE	RES NO.4 OUTFLOW	DUMMY CP MIN DESI	DUMMY CP DEQ-SHOR	C.P. 213 MIN REQU	C.P. 213 REQ-SHOR	C.P. 213 FLOW REG
91	1	4	35	1	71500.00	1424.31	3.00	0.03	549.32	400.00	0.00	170.00	0.00	549.32
92	1	5	35	1	70817.84	1423.74	2.99	212.00	400.00	400.00	0.00	180.00	0.00	400.00
93	1	6	35	1	71500.00	1424.31	3.00	0.03	1166.18	400.00	0.00	190.00	0.00	1166.18
94	1	7	35	1	62454.81	1416.78	2.87	212.00	400.00	400.00	0.00	195.00	0.00	400.00
95	1	8	35	1	49393.21	1404.76	2.68	212.00	400.00	400.00	0.00	400.00	0.00	400.00
96	1	9	35	1	36241.12	1390.73	2.49	212.00	400.00	400.00	0.00	190.00	0.00	400.00
97	1	10	35	1	65220.60	1419.09	2.91	212.00	400.00	400.00	0.00	180.00	0.00	400.00
98	1	11	35	1	71500.00	1424.31	3.00	0.03	596.06	400.00	0.00	185.00	0.00	596.06
99	1	12	35	1	71500.00	1424.31	3.00	0.03	617.16	400.00	0.00	175.00	0.00	617.16
100	1	1	36	1	67424.34	1420.92	2.94	212.00	400.00	400.00	0.00	165.00	0.00	400.00
101	1	2	36	1	71500.00	1424.31	3.00	0.03	3025.96	400.00	0.00	160.00	0.00	3025.96
102	1	3	36	1	71500.00	1424.31	3.00	0.03	823.55	400.00	0.00	145.00	0.00	823.55
103	1	4	36	1	69016.18	1422.24	2.96	212.00	400.00	400.00	0.00	150.00	0.00	400.00
104	1	5	36	1	60951.50	1415.53	2.85	212.00	400.00	400.00	0.00	110.00	0.00	400.00
105	1	6	36	1	44677.76	1399.73	2.61	212.00	400.00	400.00	0.00	110.00	0.00	400.00
106	1	7	36	1	24114.33	1373.82	2.32	212.00	400.00	400.00	0.00	110.00	0.00	400.00
107	1	8	36	1	2175.54	1301.30	2.00	212.00	400.00	400.00	0.00	145.00	0.00	400.00
108	1	9	36	1	2000.00	1300.00	2.00	212.00	142.95	400.00	257.05	110.00	0.00	142.95
109	1	10	36	1	2000.00	1300.00	2.00	212.00	171.94	400.00	228.06	140.00	0.00	171.94
110	1	11	36	1	11568.99	1348.30	2.14	212.00	400.00	400.00	0.00	150.00	0.00	400.00
111	1	12	36	1	48850.74	1404.18	2.67	212.00	400.00	400.00	0.00	110.00	0.00	400.00
112	1	1	37	1	71500.00	1424.31	3.00	0.03	493.08	400.00	0.00	115.00	0.00	493.08
113	1	2	37	1	71500.00	1424.31	3.00	0.03	681.98	400.00	0.00	140.00	0.00	681.98
114	1	3	37	1	71500.00	1424.31	3.00	0.03	1285.55	400.00	0.00	145.00	0.00	1285.55
115	1	4	37	1	71500.00	1424.31	3.00	0.03	797.32	400.00	0.00	110.00	0.00	797.32
116	1	5	37	1	69341.65	1422.51	2.97	212.00	400.00	400.00	0.00	115.00	0.00	400.00
117	1	6	37	1	61642.09	1416.11	2.86	212.00	400.00	400.00	0.00	100.00	0.00	400.00
118	1	7	37	1	56711.52	1412.01	2.79	212.00	400.00	400.00	0.00	110.00	0.00	400.00
119	1	8	37	1	45922.93	1401.06	2.63	212.00	400.00	400.00	0.00	105.00	0.00	400.00
120	1	9	37	1	66926.41	1420.50	2.93	212.00	400.00	400.00	0.00	110.00	0.00	400.00
				SUM =	6453920.31	168151.44	325.91	15478.53	66677.84	48000.00	1709.31	17760.00	106.08	66677.84
				MAX =	71500.00	1424.31	3.00	213.00	3025.96	400.00	275.91	400.00	54.22	3025.96
				MIN =	300.00	1270.23	1.00	0.03	124.09	400.00	0.00	100.00	0.00	124.09
				PMAX=	2.00	1.00	1.00	50.00	101.00	1.00	39.00	35.00	38.00	101.00
				AVG =	53782.67	1401.26	2.72	128.99	555.65	400.00	14.24	148.00	0.88	555.65
				PMIN=	38.00	38.00	38.00	1.00	39.00	1.00	1.00	1.00	1.00	39.00

RUN9 - SUMMARY OUTPUT

SUMMARY BY PERIOD FLOOD= 1

LOC NO=					4.	4.	4.	4.	4.	212.	212.	213.	213.	213.
CODE=					4.110	4.220	4.130	4.120	4.100	212.050	212.060	213.070	213.080	213.040
PER	DY	MO	YR	DW	RES NO.4 EOP STOR	RES NO.4 EOP ELEV	RES NO.4 LEVEL	RES NO.4 CASE	RES NO.4 OUTFLOW	DUMMY CP MIN DESI	DUMMY CP DEQ-SHOR	C.P. 213 MIN REQU	C.P. 213 REQ-SHOR	C.P. 213 FLOW REQ
1	1	10	27	1	71500.00	1424.31	3.00	0.03	1221.09	200.00	0.00	100.00	0.00	1221.09
2	1	11	27	1	71500.00	1424.31	3.00	0.03	1272.75	290.00	0.00	190.00	0.00	1272.75
3	1	12	27	1	71500.00	1424.31	3.00	0.03	501.16	280.00	0.00	180.00	0.00	501.16
4	1	1	28	1	71500.00	1424.31	3.00	0.03	735.78	270.00	0.00	170.00	0.00	735.78
5	1	2	28	1	71500.00	1424.31	3.00	0.03	649.88	260.00	0.00	160.00	0.00	649.88
6	1	3	28	1	71500.00	1424.31	3.00	0.03	1388.55	270.00	0.00	170.00	0.00	1388.55
7	1	4	28	1	71500.00	1424.31	3.00	0.03	1003.32	260.00	0.00	160.00	0.00	1003.32
8	1	5	28	1	71500.00	1424.31	3.00	0.03	1365.91	250.00	0.00	150.00	0.00	1365.91
9	1	6	28	1	71500.00	1424.31	3.00	0.03	1308.65	255.00	0.00	155.00	0.00	1308.65
10	1	7	28	1	71500.00	1424.31	3.00	0.03	360.94	240.00	0.00	140.00	0.00	360.94
11	1	8	28	1	71500.00	1424.31	3.00	0.03	282.70	220.00	0.00	110.00	0.00	282.70
12	1	9	28	1	68879.66	1422.13	2.96	212.00	220.00	220.00	0.00	110.00	0.00	220.00
13	1	10	28	1	66858.40	1420.45	2.93	212.00	225.00	225.00	0.00	115.00	0.00	225.00
14	1	11	28	1	68080.44	1421.46	2.95	212.00	245.00	245.00	0.00	145.00	0.00	245.00
15	1	12	28	1	71500.00	1424.31	3.00	0.03	429.47	255.00	0.00	155.00	0.00	429.47
16	1	1	29	1	71500.00	1424.31	3.00	0.03	433.78	220.00	0.00	110.00	0.00	433.78
17	1	2	29	1	71500.00	1424.31	3.00	0.03	1132.98	220.00	0.00	110.00	0.00	1132.98
18	1	3	29	1	71500.00	1424.31	3.00	0.03	1233.55	240.00	0.00	140.00	0.00	1233.55
19	1	4	29	1	71500.00	1424.31	3.00	0.03	814.32	220.00	0.00	110.00	0.00	814.32
20	1	5	29	1	71500.00	1424.31	3.00	0.03	283.91	225.00	0.00	115.00	0.00	283.91
21	1	6	29	1	68146.20	1421.52	2.95	212.00	220.00	220.00	0.00	110.00	0.00	220.00
22	1	7	29	1	62666.31	1416.96	2.87	212.00	240.00	240.00	0.00	140.00	0.00	240.00
23	1	8	29	1	59506.86	1414.33	2.83	212.00	260.00	260.00	0.00	160.00	0.00	260.00
24	1	9	29	1	71500.00	1424.31	3.00	0.03	406.42	280.00	0.00	180.00	0.00	406.42
25	1	10	29	1	71500.00	1424.31	3.00	0.03	613.09	275.00	0.00	175.00	0.00	613.09
26	1	11	29	1	71500.00	1424.31	3.00	0.03	557.75	265.00	0.00	165.00	0.00	557.75
27	1	12	29	1	71500.00	1424.31	3.00	0.03	528.16	250.00	0.00	150.00	0.00	528.16
28	1	1	30	1	71500.00	1424.31	3.00	0.03	477.78	240.00	0.00	140.00	0.00	477.78
29	1	2	30	1	71500.00	1424.31	3.00	0.03	762.98	245.00	0.00	145.00	0.00	762.98
30	1	3	30	1	71500.00	1424.31	3.00	0.03	894.55	255.00	0.00	155.00	0.00	894.55
31	1	4	30	1	71500.00	1424.31	3.00	0.03	495.32	270.00	0.00	170.00	0.00	495.32
32	1	5	30	1	71500.00	1424.31	3.00	0.03	575.91	280.00	0.00	180.00	0.00	575.91
33	1	6	30	1	71500.00	1424.31	3.00	0.03	317.65	290.00	0.00	190.00	0.00	317.65
34	1	7	30	1	59871.44	1414.64	2.83	212.00	295.00	295.00	0.00	195.00	0.00	295.00
35	1	8	30	1	41089.00	1395.90	2.56	212.00	400.00	400.00	0.00	400.00	0.00	400.00
36	1	9	30	1	28294.11	1379.73	2.38	212.00	290.00	290.00	0.00	190.00	0.00	290.00
37	1	10	30	1	15724.63	1357.89	2.20	212.00	280.00	280.00	0.00	180.00	0.00	280.00
38	1	11	30	1	4902.63	1321.47	2.04	212.00	285.00	285.00	0.00	185.00	0.00	285.00
39	1	12	30	1	1790.88	1297.05	1.88	213.00	175.00	275.00	100.00	175.00	0.00	175.00
40	1	1	31	1	1739.12	1296.33	1.85	213.00	165.00	265.00	100.00	165.00	0.00	165.00
41	1	2	31	1	24502.64	1374.37	2.32	212.00	260.00	260.00	0.00	160.00	0.00	260.00
42	1	3	31	1	63578.57	1417.72	2.89	212.00	245.00	245.00	0.00	145.00	0.00	245.00

LOC NO=					4.	4.	4.	4.	4.	212.	212.	213.	213.	213.
PER	DY	MO	YR	DW	RES NO.4 EOP STOR	RES NO.4 EOP ELEV	RES NO.4 LEVEL	RES NO.4 CASE	RES NO.4 OUTFLOW	DUMMY CP MIN DESI	DUMMY CP DEQ-SHOR	C.P. 213 MIN REQU	C.P. 213 REQ-SHOR	C.P. 213 FLOW REQ
43	1	4	31	1	71500.00	1424.31	3.00	0.03	675.00	250.00	0.00	150.00	0.00	675.00
44	1	5	31	1	71500.00	1424.31	3.00	0.03	367.91	220.00	0.00	110.00	0.00	367.91
45	1	6	31	1	71500.00	1424.31	3.00	0.03	420.65	220.00	0.00	110.00	0.00	420.65
46	1	7	31	1	70696.97	1423.64	2.99	212.00	220.00	220.00	0.00	110.00	0.00	220.00
47	1	8	31	1	64589.26	1418.56	2.90	212.00	245.00	245.00	0.00	145.00	0.00	245.00
48	1	9	31	1	55899.65	1411.33	2.78	212.00	220.00	220.00	0.00	110.00	0.00	220.00
49	1	10	31	1	46018.28	1401.16	2.63	212.00	240.00	240.00	0.00	140.00	0.00	240.00
50	1	11	31	1	39251.38	1393.94	2.54	212.00	250.00	250.00	0.00	150.00	0.00	250.00
51	1	12	31	1	55119.15	1410.68	2.76	212.00	220.00	220.00	0.00	110.00	0.00	220.00
52	1	1	32	1	68060.62	1421.45	2.95	212.00	225.00	225.00	0.00	115.00	0.00	225.00
53	1	2	32	1	71500.00	1424.31	3.00	0.03	473.03	240.00	0.00	140.00	0.00	473.03
54	1	3	32	1	71500.00	1424.31	3.00	0.03	1109.55	245.00	0.00	145.00	0.00	1109.55
55	1	4	32	1	71500.00	1424.31	3.00	0.03	510.32	220.00	0.00	110.00	0.00	510.32
56	1	5	32	1	71500.00	1424.31	3.00	0.03	513.91	225.00	0.00	115.00	0.00	513.91
57	1	6	32	1	71500.00	1424.31	3.00	0.03	276.65	200.00	0.00	100.00	0.00	276.65
58	1	7	32	1	66022.31	1419.75	2.92	212.00	220.00	220.00	0.00	110.00	0.00	220.00
59	1	8	32	1	58190.24	1413.24	2.81	212.00	205.00	205.00	0.00	105.00	0.00	205.00
60	1	9	32	1	70624.80	1423.58	2.99	212.00	220.00	220.00	0.00	110.00	0.00	220.00
61	1	10	32	1	71500.00	1424.31	3.00	0.03	1189.86	220.00	0.00	110.00	0.00	1189.86
62	1	11	32	1	71500.00	1424.31	3.00	0.03	404.75	225.00	0.00	115.00	0.00	404.75
63	1	12	32	1	71500.00	1424.31	3.00	0.03	442.16	220.00	0.00	110.00	0.00	442.16
64	1	1	33	1	71500.00	1424.31	3.00	0.03	528.78	225.00	0.00	115.00	0.00	528.78
65	1	2	33	1	71500.00	1424.31	3.00	0.03	911.98	225.00	0.00	115.00	0.00	911.98
66	1	3	33	1	71500.00	1424.31	3.00	0.03	1227.55	245.00	0.00	145.00	0.00	1227.55
67	1	4	33	1	71500.00	1424.31	3.00	0.03	659.32	240.00	0.00	140.00	0.00	659.32
68	1	5	33	1	71500.00	1424.31	3.00	0.03	348.91	255.00	0.00	155.00	0.00	348.91
69	1	6	33	1	68681.86	1421.96	2.96	212.00	260.00	260.00	0.00	160.00	0.00	260.00
70	1	7	33	1	71500.00	1424.31	3.00	0.03	987.10	270.00	0.00	170.00	0.00	987.10
71	1	8	33	1	71500.00	1424.31	3.00	0.03	1237.70	220.00	0.00	110.00	0.00	1237.70
72	1	9	33	1	71500.00	1424.31	3.00	0.03	523.96	225.00	0.00	115.00	0.00	523.96
73	1	10	33	1	71500.00	1424.31	3.00	0.03	384.09	240.00	0.00	140.00	0.00	384.09
74	1	11	33	1	71500.00	1424.31	3.00	0.03	358.75	260.00	0.00	160.00	0.00	358.75
75	1	12	33	1	71500.00	1424.31	3.00	0.03	716.16	265.00	0.00	165.00	0.00	716.16
76	1	1	34	1	64531.59	1418.51	2.90	212.00	255.00	255.00	0.00	155.00	0.00	255.00
77	1	2	34	1	71500.00	1424.31	3.00	0.03	336.39	265.00	0.00	165.00	0.00	336.39
78	1	3	34	1	71500.00	1424.31	3.00	0.03	1198.55	270.00	0.00	170.00	0.00	1198.55
79	1	4	34	1	71500.00	1424.31	3.00	0.03	554.32	260.00	0.00	160.00	0.00	554.32
80	1	5	34	1	71500.00	1424.31	3.00	0.03	307.91	255.00	0.00	155.00	0.00	307.91
81	1	6	34	1	71181.61	1424.04	3.00	212.00	200.00	200.00	0.00	100.00	0.00	200.00
82	1	7	34	1	63919.96	1418.00	2.89	212.00	290.00	290.00	0.00	190.00	0.00	290.00
83	1	8	34	1	71500.00	1424.31	3.00	0.03	390.39	280.00	0.00	180.00	0.00	390.39
84	1	9	34	1	71500.00	1424.31	3.00	0.03	423.96	270.00	0.00	170.00	0.00	423.96
85	1	10	34	1	71500.00	1424.31	3.00	0.03	619.09	260.00	0.00	160.00	0.00	619.09
86	1	11	34	1	71500.00	1424.31	3.00	0.03	1223.75	270.00	0.00	170.00	0.00	1223.75
87	1	12	34	1	71500.00	1424.31	3.00	0.03	570.16	260.00	0.00	160.00	0.00	570.16
88	1	1	35	1	71500.00	1424.31	3.00	0.03	356.78	250.00	0.00	150.00	0.00	356.78
89	1	2	35	1	71500.00	1424.31	3.00	0.03	1046.98	255.00	0.00	155.00	0.00	1046.98
90	1	3	35	1	71500.00	1424.31	3.00	0.03	766.55	240.00	0.00	140.00	0.00	766.55

RUN9 (CONTINUED)

LOC NO=					4.	4.	4.	4.	4.	212.	212.	213.	213.	213.
PER	DY	MO	YR	DW	RES NO.4 EOP STOR	RES NO.4 EOP ELEV	RES NO.4 LEVEL	RES NO.4 CASE	RES NO.4 OUTFLOW	DUMMY CP MIN DESI	DUMMY CP DEQ-SHOR	C.P. 213 MIN REQU	C.P. 213 REQ-SHOR	C.P. 213 FLOW REQ
91	1	4	35	1	71500.00	1424.31	3.00	0.03	549.32	220.00	0.00	170.00	0.00	549.32
92	1	5	35	1	71500.00	1424.31	3.00	0.03	388.91	220.00	0.00	180.00	0.00	388.91
93	1	6	35	1	71500.00	1424.31	3.00	0.03	1177.65	225.00	0.00	190.00	0.00	1177.65
94	1	7	35	1	71500.00	1424.31	3.00	0.03	252.94	245.00	0.00	195.00	0.00	252.94
95	1	8	35	1	58442.80	1413.45	2.81	213.00	400.00	255.00	0.00	400.00	0.00	400.00
96	1	9	35	1	56001.29	1411.42	2.78	212.00	220.00	220.00	0.00	190.00	0.00	220.00
97	1	10	35	1	71500.00	1424.31	3.00	0.03	619.11	220.00	0.00	180.00	0.00	619.11
98	1	11	35	1	71500.00	1424.31	3.00	0.03	701.75	240.00	0.00	185.00	0.00	701.75
99	1	12	35	1	71500.00	1424.31	3.00	0.03	617.16	220.00	0.00	175.00	0.00	617.16
100	1	1	36	1	71500.00	1424.31	3.00	0.03	333.78	225.00	0.00	165.00	0.00	333.78
101	1	2	36	1	71500.00	1424.31	3.00	0.03	3096.88	220.00	0.00	160.00	0.00	3096.88
102	1	3	36	1	71500.00	1424.31	3.00	0.03	823.55	240.00	0.00	145.00	0.00	823.55
103	1	4	36	1	71500.00	1424.31	3.00	0.03	358.32	260.00	0.00	150.00	0.00	358.32
104	1	5	36	1	70817.84	1423.74	2.99	212.00	280.00	280.00	0.00	110.00	0.00	280.00
105	1	6	36	1	61988.08	1416.40	2.86	212.00	275.00	275.00	0.00	110.00	0.00	275.00
106	1	7	36	1	49738.21	1405.13	2.69	212.00	265.00	265.00	0.00	110.00	0.00	265.00
107	1	8	36	1	37040.10	1391.58	2.50	212.00	250.00	250.00	0.00	145.00	0.00	250.00
108	1	9	36	1	31088.30	1383.68	2.42	212.00	240.00	240.00	0.00	110.00	0.00	240.00
109	1	10	36	1	26569.36	1377.29	2.35	212.00	245.00	245.00	0.00	140.00	0.00	245.00
110	1	11	36	1	44894.20	1399.96	2.62	212.00	255.00	255.00	0.00	150.00	0.00	255.00
111	1	12	36	1	71500.00	1424.31	3.00	0.03	574.84	270.00	0.00	110.00	0.00	574.84
112	1	1	37	1	71500.00	1424.31	3.00	0.03	861.78	280.00	0.00	115.00	0.00	861.78
113	1	2	37	1	71500.00	1424.31	3.00	0.03	681.98	290.00	0.00	140.00	0.00	681.98
114	1	3	37	1	71500.00	1424.31	3.00	0.03	1285.55	295.00	0.00	145.00	0.00	1285.55
115	1	4	37	1	71500.00	1424.31	3.00	0.03	797.32	400.00	0.00	110.00	0.00	797.32
116	1	5	37	1	71500.00	1424.31	3.00	0.03	364.91	290.00	0.00	115.00	0.00	364.91
117	1	6	37	1	70943.54	1423.85	2.99	212.00	280.00	280.00	0.00	100.00	0.00	280.00
118	1	7	37	1	71500.00	1424.31	3.00	0.03	310.89	285.00	0.00	110.00	0.00	310.89
119	1	8	37	1	68406.35	1421.74	2.96	212.00	275.00	275.00	0.00	105.00	0.00	275.00
120	1	9	37	1	71500.00	1424.31	3.00	0.03	700.97	265.00	0.00	110.00	0.00	700.97
				SUM =	7794348.64	170004.79	348.43	8485.40	66668.95	30140.00	200.00	17760.00	0.00	66668.95
				MAX =	71500.00	1424.31	3.00	213.00	3096.88	400.00	100.00	400.00	0.00	3096.88
				MIN =	1739.12	1296.33	1.85	0.03	165.00	200.00	0.00	100.00	0.00	165.00
				PMAX=	101.00	1.00	1.00	39.00	101.00	35.00	39.00	35.00	1.00	101.00
				AVG =	64952.91	1416.71	2.90	70.71	555.57	251.17	1.67	148.00	0.00	555.57
				PMIN=	40.00	40.00	40.00	1.00	40.00	1.00	1.00	1.00	1.00	40.00

RUN10 - SUMMARY OUTPUT

SUMMARY BY PERIOD FLOOD= 1

LOC NO=					4.	4.	4.	4.	4.	213.	213.	213.	213.	213.
CODE=					4.090	4.380	4.110	4.130	4.220	213.050	213.060	213.070	213.080	213.040
PER	DY	MO	YR	DW	RES 4 INFLOW	RES 4 TOP CON.	RES 4 EOP STOR	RES 4 LEVEL	RES 4 EOP ELEV	C P 213 MIN DESI	C P 213 DEQ-SHOR	C P 213 MIN REQU	C P 213 REQ-SHOR	C P 213 FLOW REG
1	1	1	29	1	1104.00	110690.00	110690.00	3.00	1450.00	400.00	0.00	100.00	0.00	1108.07
2	2	1	29	2	1090.00	110690.00	110690.00	3.00	1450.00	400.00	0.00	100.00	0.00	1094.07
3	3	1	29	3	1076.00	110690.00	110690.00	3.00	1450.00	400.00	0.00	100.00	0.00	1080.07
4	4	1	29	4	1062.00	110690.00	110690.00	3.00	1450.00	400.00	0.00	100.00	0.00	1066.07
5	5	1	29	5	1048.00	110690.00	110690.00	3.00	1450.00	400.00	0.00	100.00	0.00	1052.07
6	6	1	29	6	1034.00	110690.00	110690.00	3.00	1450.00	400.00	0.00	100.00	0.00	1038.07
7	7	1	29	7	1020.00	110690.00	110690.00	3.00	1450.00	400.00	0.00	100.00	0.00	1024.07
8	8	1	29	1	1006.00	110690.00	110690.00	3.00	1450.00	400.00	0.00	100.00	0.00	1010.07
9	9	1	29	2	992.00	110690.00	110690.00	3.00	1450.00	400.00	0.00	100.00	0.00	996.07
10	10	1	29	3	978.00	110690.00	110690.00	3.00	1450.00	400.00	0.00	100.00	0.00	982.07
11	11	1	29	4	964.00	110690.00	110690.00	3.00	1450.00	400.00	0.00	100.00	0.00	968.07
12	12	1	29	5	950.00	110690.00	110690.00	3.00	1450.00	400.00	0.00	100.00	0.00	954.07
13	13	1	29	6	936.00	110690.00	110690.00	3.00	1450.00	400.00	0.00	100.00	0.00	940.07
14	14	1	29	7	922.00	110690.00	110690.00	3.00	1450.00	400.00	0.00	100.00	0.00	926.07
15	15	1	29	1	908.00	110690.00	110690.00	3.00	1450.00	400.00	0.00	100.00	0.00	912.07
16	16	1	29	2	894.00	110690.00	110690.00	3.00	1450.00	400.00	0.00	100.00	0.00	898.07
17	17	1	29	3	880.00	110690.00	110690.00	3.00	1450.00	400.00	0.00	100.00	0.00	884.07
18	18	1	29	4	866.00	110690.00	110690.00	3.00	1450.00	400.00	0.00	100.00	0.00	870.07
19	19	1	29	5	852.00	110690.00	110690.00	3.00	1450.00	400.00	0.00	100.00	0.00	856.07
20	20	1	29	6	838.00	110690.00	110690.00	3.00	1450.00	400.00	0.00	100.00	0.00	842.07
21	21	1	29	7	824.00	110690.00	110690.00	3.00	1450.00	400.00	0.00	100.00	0.00	828.07
22	22	1	29	1	810.00	110690.00	110690.00	3.00	1450.00	400.00	0.00	100.00	0.00	814.07
23	23	1	29	2	792.00	110690.00	110690.00	3.00	1450.00	400.00	0.00	100.00	0.00	796.07
24	24	1	29	3	774.00	110690.00	110690.00	3.00	1450.00	400.00	0.00	100.00	0.00	778.07
25	25	1	29	4	757.00	110690.00	110690.00	3.00	1450.00	400.00	0.00	100.00	0.00	761.07
26	26	1	29	5	739.00	110690.00	110690.00	3.00	1450.00	400.00	0.00	100.00	0.00	743.07
27	27	1	29	6	722.00	110690.00	110690.00	3.00	1450.00	400.00	0.00	100.00	0.00	726.07
28	28	1	29	7	704.00	110690.00	110690.00	3.00	1450.00	400.00	0.00	100.00	0.00	708.07
29	29	1	29	1	687.00	110690.00	110690.00	3.00	1450.00	400.00	0.00	100.00	0.00	691.07
30	30	1	29	2	669.00	110690.00	110690.00	3.00	1450.00	400.00	0.00	100.00	0.00	673.07
31	31	1	29	3	651.00	110690.00	110690.00	3.00	1450.00	400.00	0.00	100.00	0.00	655.07
32	1	2	29	4	634.00	110690.00	110690.00	3.00	1450.00	400.00	0.00	100.00	0.00	637.95
33	2	2	29	5	616.00	110690.00	110690.00	3.00	1450.00	400.00	0.00	100.00	0.00	619.95
34	3	2	29	6	599.00	110690.00	110690.00	3.00	1450.00	400.00	0.00	100.00	0.00	602.95
35	4	2	29	7	581.00	110690.00	110690.00	3.00	1450.00	400.00	0.00	100.00	0.00	584.95
36	5	2	29	1	564.00	110690.00	110690.00	3.00	1450.00	400.00	0.00	100.00	0.00	567.95
37	6	2	29	2	546.00	110690.00	110690.00	3.00	1450.00	400.00	0.00	100.00	0.00	549.95
38	7	2	29	3	528.00	110690.00	110690.00	3.00	1450.00	400.00	0.00	100.00	0.00	531.95
39	8	2	29	4	511.00	110690.00	110690.00	3.00	1450.00	400.00	0.00	100.00	0.00	514.95
40	9	2	29	5	493.00	110690.00	110690.00	3.00	1450.00	400.00	0.00	100.00	0.00	496.95
41	10	2	29	6	476.00	110690.00	110690.00	3.00	1450.00	400.00	0.00	100.00	0.00	479.95
42	11	2	29	7	458.00	110690.00	110690.00	3.00	1450.00	400.00	0.00	100.00	0.00	461.95

RUN10 (CONTINUED)

LOC NO=					4.	4.	4.	4.	4.	213.	213.	213.	213.	213.
PER	DY	MO	YR	DW	RES 4 INFLOW	RES 4 TOP CON.	RES 4 EOP STOR	RES 4 LEVEL	RES 4 EOP ELEV	C P 213 MIN DESI	C P 213 DEQ-SHOR	C P 213 MIN REQU	C P 213 REQ-SHOR	C P 213 FLOW REG
43	12	2	29	1	441.00	110690.00	110690.00	3.00	1450.00	400.00	0.00	100.00	0.00	444.95
44	13	2	29	2	423.00	110690.00	110690.00	3.00	1450.00	400.00	0.00	100.00	0.00	426.95
45	14	2	29	3	405.00	110690.00	110690.00	3.00	1450.00	400.00	0.00	100.00	0.00	408.95
46	15	2	29	4	388.00	110690.00	110674.03	3.00	1449.99	400.00	0.00	100.00	0.00	400.00
47	16	2	29	5	370.00	110690.00	110622.35	3.00	1449.96	400.00	0.00	100.00	0.00	400.00
48	17	2	29	6	353.00	110690.00	110536.94	3.00	1449.91	400.00	0.00	100.00	0.00	400.00
49	18	2	29	7	335.00	110690.00	110415.83	3.00	1449.83	400.00	0.00	100.00	0.00	400.00
50	19	2	29	1	318.00	110690.00	110260.99	3.00	1449.73	400.00	0.00	100.00	0.00	400.00
51	20	2	29	2	300.00	110690.00	110070.44	2.99	1449.62	400.00	0.00	100.00	0.00	400.00
52	21	2	29	3	283.00	110690.00	109846.15	2.99	1449.48	400.00	0.00	100.00	0.00	400.00
53	22	2	29	4	279.00	110690.00	109613.92	2.99	1449.33	400.00	0.00	100.00	0.00	400.00
54	23	2	29	5	275.00	110690.00	109373.74	2.99	1449.19	400.00	0.00	100.00	0.00	400.00
55	24	2	29	6	271.00	110690.00	109125.61	2.99	1449.03	400.00	0.00	100.00	0.00	400.00
56	25	2	29	7	267.00	110690.00	108869.54	2.98	1448.87	400.00	0.00	100.00	0.00	400.00
57	26	2	29	1	263.00	110690.00	108605.51	2.98	1448.71	400.00	0.00	100.00	0.00	400.00
58	27	2	29	2	259.00	110690.00	108333.54	2.98	1448.54	400.00	0.00	100.00	0.00	400.00
59	28	2	29	3	255.00	110690.00	108053.61	2.98	1448.37	400.00	0.00	100.00	0.00	400.00
60	1	3	29	4	251.00	110690.00	107768.18	2.97	1448.19	400.00	0.00	100.00	0.00	400.00
61	2	3	29	5	247.00	110690.00	107474.79	2.97	1448.01	400.00	0.00	100.00	0.00	400.00
62	3	3	29	6	243.00	110690.00	107173.44	2.97	1447.83	400.00	0.00	100.00	0.00	400.00
63	4	3	29	7	239.00	110690.00	106864.13	2.96	1447.63	400.00	0.00	100.00	0.00	400.00
64	5	3	29	1	235.00	110690.00	106546.87	2.96	1447.44	400.00	0.00	100.00	0.00	400.00
65	6	3	29	2	231.00	110690.00	106221.64	2.96	1447.24	400.00	0.00	100.00	0.00	400.00
66	7	3	29	3	227.00	110690.00	105888.46	2.96	1447.03	400.00	0.00	100.00	0.00	400.00
67	8	3	29	4	223.00	110690.00	105547.32	2.95	1446.82	400.00	0.00	100.00	0.00	400.00
68	9	3	29	5	219.00	110690.00	105198.22	2.95	1446.60	400.00	0.00	100.00	0.00	400.00
69	10	3	29	6	215.00	110690.00	104841.15	2.95	1446.38	400.00	0.00	100.00	0.00	400.00
70	11	3	29	7	211.00	110690.00	104476.13	2.94	1446.16	400.00	0.00	100.00	0.00	400.00
71	12	3	29	1	207.00	110690.00	104103.14	2.94	1445.93	400.00	0.00	100.00	0.00	400.00
72	13	3	29	2	203.00	110690.00	103722.19	2.94	1445.69	400.00	0.00	100.00	0.00	400.00
73	14	3	29	3	199.00	110690.00	103333.27	2.93	1445.45	400.00	0.00	100.00	0.00	400.00
74	15	3	29	4	195.00	110690.00	102936.40	2.93	1445.21	400.00	0.00	100.00	0.00	400.00
75	16	3	29	5	191.00	110690.00	102531.55	2.92	1444.96	400.00	0.00	100.00	0.00	400.00
76	17	3	29	6	187.00	110690.00	102118.74	2.92	1444.70	400.00	0.00	100.00	0.00	400.00
77	18	3	29	7	183.00	110690.00	101697.97	2.92	1444.44	400.00	0.00	100.00	0.00	400.00
78	19	3	29	1	179.00	110690.00	101269.23	2.91	1444.18	400.00	0.00	100.00	0.00	400.00
79	20	3	29	2	175.00	110690.00	100832.52	2.91	1443.91	400.00	0.00	100.00	0.00	400.00
80	21	3	29	3	171.00	110690.00	100387.85	2.91	1443.63	400.00	0.00	100.00	0.00	400.00
81	22	3	29	4	167.00	110690.00	99935.20	2.90	1443.35	400.00	0.00	100.00	0.00	400.00
82	23	3	29	5	163.00	110690.00	99474.59	2.90	1443.07	400.00	0.00	100.00	0.00	400.00
83	24	3	29	6	162.00	110690.00	99011.96	2.89	1442.78	400.00	0.00	100.00	0.00	400.00
84	25	3	29	7	162.00	110690.00	98549.29	2.89	1442.49	400.00	0.00	100.00	0.00	400.00
85	26	3	29	1	161.00	110690.00	98084.60	2.88	1442.21	400.00	0.00	100.00	0.00	400.00
86	27	3	29	2	161.00	110690.00	97619.88	2.88	1441.92	400.00	0.00	100.00	0.00	400.00
87	28	3	29	3	160.00	110690.00	97153.14	2.88	1441.63	400.00	0.00	100.00	0.00	400.00
88	29	3	29	4	160.00	110690.00	96686.36	2.87	1441.34	400.00	0.00	100.00	0.00	400.00
89	30	3	29	5	159.00	110690.00	96217.56	2.87	1441.05	400.00	0.00	100.00	0.00	400.00
90	31	3	29	6	159.00	110690.00	95748.73	2.86	1440.76	400.00	0.00	100.00	0.00	400.00

RUN10 (CONTINUED)

LOC NO=					4.	4.	4.	4.	4.	213.	213.	213.	213.	213.
PER	DY	MO	YR	DW	RES 4 INFLOW	RES 4 TOP CON.	RES 4 EOP STOR	RES 4 LEVEL	RES 4 EOP ELEV	C P 213 MIN DESI	C P 213 DEQ-SHOR	C P 213 MIN REQU	C P 213 REQ-SHOR	C P 213 FLOW REG
91	1	4	29	7	159.00	110690.00	95281.49	2.86	1440.47	400.00	0.00	100.00	0.00	400.00
92	2	4	29	1	158.00	110690.00	94812.22	2.85	1440.18	400.00	0.00	100.00	0.00	400.00
93	3	4	29	2	158.00	110690.00	94342.90	2.85	1439.89	400.00	0.00	100.00	0.00	400.00
94	4	4	29	3	157.00	110690.00	93871.56	2.85	1439.60	400.00	0.00	100.00	0.00	400.00
95	5	4	29	4	157.00	110690.00	93400.18	2.84	1439.31	400.00	0.00	100.00	0.00	400.00
96	6	4	29	5	156.00	110690.00	92926.78	2.84	1439.02	400.00	0.00	100.00	0.00	400.00
97	7	4	29	6	156.00	110690.00	92453.32	2.83	1438.73	400.00	0.00	100.00	0.00	400.00
98	8	4	29	7	156.00	110690.00	91979.83	2.83	1438.43	400.00	0.00	100.00	0.00	400.00
99	9	4	29	1	155.00	110690.00	91504.31	2.82	1438.14	400.00	0.00	100.00	0.00	400.00
100	10	4	29	2	155.00	110690.00	91028.75	2.82	1437.84	400.00	0.00	100.00	0.00	400.00
101	11	4	29	3	154.00	110690.00	90551.16	2.81	1437.55	400.00	0.00	100.00	0.00	400.00
102	12	4	29	4	154.00	110690.00	90073.53	2.81	1437.25	400.00	0.00	100.00	0.00	400.00
103	13	4	29	5	153.00	110690.00	89593.87	2.81	1436.96	400.00	0.00	100.00	0.00	400.00
104	14	4	29	6	153.00	110690.00	89114.17	2.80	1436.66	400.00	0.00	100.00	0.00	400.00
105	15	4	29	7	153.00	110690.00	88634.42	2.80	1436.36	400.00	0.00	100.00	0.00	400.00
106	16	4	29	1	152.00	110690.00	88152.65	2.79	1436.07	400.00	0.00	100.00	0.00	400.00
107	17	4	29	2	152.00	110690.00	87670.83	2.79	1435.77	400.00	0.00	100.00	0.00	400.00
108	18	4	29	3	151.00	110690.00	87186.99	2.78	1435.47	400.00	0.00	100.00	0.00	400.00
109	19	4	29	4	151.00	110690.00	86703.10	2.78	1435.17	400.00	0.00	100.00	0.00	400.00
110	20	4	29	5	150.00	110690.00	86217.19	2.77	1434.87	400.00	0.00	100.00	0.00	400.00
111	21	4	29	6	150.00	110690.00	85731.23	2.77	1434.57	400.00	0.00	100.00	0.00	400.00
112	22	4	29	7	148.00	110690.00	85241.26	2.77	1434.27	400.00	0.00	100.00	0.00	400.00
113	23	4	29	1	145.00	110690.00	84745.30	2.76	1433.96	400.00	0.00	100.00	0.00	400.00
114	24	4	29	2	142.00	110690.00	84243.34	2.76	1433.65	400.00	0.00	100.00	0.00	400.00
115	25	4	29	3	135.00	110690.00	83727.45	2.75	1433.33	400.00	0.00	100.00	0.00	400.00
116	26	4	29	4	130.00	110690.00	83201.59	2.75	1433.01	400.00	0.00	100.00	0.00	400.00
117	27	4	29	5	125.00	110690.00	82665.77	2.74	1432.67	400.00	0.00	100.00	0.00	400.00
118	28	4	29	6	119.00	110690.00	82118.01	2.74	1432.34	400.00	0.00	100.00	0.00	400.00
119	29	4	29	7	117.00	110690.00	81566.22	2.73	1431.99	400.00	0.00	100.00	0.00	400.00
120	30	4	29	1	113.00	110690.00	81006.45	2.73	1431.65	400.00	0.00	100.00	0.00	400.00
121	1	5	29	2	112.00	112925.81	80437.25	2.71	1431.30	400.00	0.00	100.00	0.00	400.00
122	2	5	29	3	109.00	115161.61	79862.10	2.69	1430.94	400.00	0.00	100.00	0.00	400.00
123	3	5	29	4	99.00	117397.42	79267.10	2.67	1430.57	400.00	0.00	100.00	0.00	400.00
124	4	5	29	5	99.00	119633.23	78672.08	2.65	1430.21	400.00	0.00	100.00	0.00	400.00
125	5	5	29	6	98.00	121869.03	78075.07	2.63	1429.78	400.00	0.00	100.00	0.00	400.00
126	6	5	29	7	96.00	124104.84	77474.09	2.61	1429.28	400.00	0.00	100.00	0.00	400.00
127	7	5	29	1	94.00	126340.65	76869.12	2.59	1428.78	400.00	0.00	100.00	0.00	400.00
128	8	5	29	2	94.00	128576.45	76264.14	2.58	1428.27	400.00	0.00	100.00	0.00	400.00
129	9	5	29	3	92.00	130812.26	75655.18	2.56	1427.77	400.00	0.00	100.00	0.00	400.00
130	10	5	29	4	91.00	133048.06	75044.22	2.55	1427.26	400.00	0.00	100.00	0.00	400.00
131	11	5	29	5	90.00	135283.87	74431.27	2.53	1426.75	400.00	0.00	100.00	0.00	400.00
132	12	5	29	6	91.00	137519.68	73820.28	2.52	1426.24	400.00	0.00	100.00	0.00	400.00
133	13	5	29	7	86.00	139755.48	73199.37	2.50	1425.72	400.00	0.00	100.00	0.00	400.00
134	14	5	29	1	85.00	141991.29	72576.46	2.49	1425.21	400.00	0.00	100.00	0.00	400.00
135	15	5	29	2	86.00	144227.10	71955.52	2.47	1424.69	400.00	0.00	100.00	0.00	400.00
136	16	5	29	3	86.00	146462.90	71334.57	2.46	1424.17	400.00	0.00	100.00	0.00	400.00
137	17	5	29	4	86.00	148698.71	70713.61	2.45	1423.66	400.00	0.00	100.00	0.00	400.00
138	18	5	29	5	87.00	150934.52	70094.61	2.44	1423.14	400.00	0.00	100.00	0.00	400.00

RUN10 (CONTINUED)

LOC NO=					4.	4.	4.	4.	4.	213.	213.	213.	213.	213.
PER	DY	MO	YR	DW	RES 4 INFLOW	RES 4 TOP CON.	RES 4 EOP STOR	RES 4 LEVEL	RES 4 EOP ELEV	C P 213 MIN DESI	C P 213 DEQ-SHOR	C P 213 MIN REQU	C P 213 REQ-SHOR	C P 213 FLOW REG
139	19	5	29	6	88.00	153170.32	69477.59	2.42	1422.63	400.00	0.00	100.00	0.00	400.00
140	20	5	29	7	87.00	155406.13	68858.57	2.41	1422.11	400.00	0.00	100.00	0.00	400.00
141	21	5	29	1	75.00	157641.94	68215.73	2.40	1421.58	400.00	0.00	100.00	0.00	400.00
142	22	5	29	2	75.00	159877.74	67572.88	2.39	1421.04	400.00	0.00	100.00	0.00	400.00
143	23	5	29	3	74.00	162113.55	66928.03	2.38	1420.51	400.00	0.00	100.00	0.00	400.00
144	24	5	29	4	75.00	164349.35	66285.16	2.37	1419.97	400.00	0.00	100.00	0.00	400.00
145	25	5	29	5	73.00	166585.16	65638.30	2.36	1419.43	400.00	0.00	100.00	0.00	400.00
146	26	5	29	6	71.00	168820.97	64987.46	2.34	1418.89	400.00	0.00	100.00	0.00	400.00
147	27	5	29	7	70.00	171056.77	64334.63	2.33	1418.35	400.00	0.00	100.00	0.00	400.00
148	28	5	29	1	60.00	173292.58	63661.94	2.32	1417.79	400.00	0.00	100.00	0.00	400.00
149	29	5	29	2	60.00	175528.39	62989.25	2.31	1417.23	400.00	0.00	100.00	0.00	400.00
150	30	5	29	3	50.00	177764.19	62296.70	2.30	1416.65	400.00	0.00	100.00	0.00	400.00
151	31	5	29	4	56.00	180000.00	61616.04	2.30	1416.09	400.00	0.00	100.00	0.00	400.00
152	1	6	29	5	53.00	180000.00	60928.90	2.29	1415.51	400.00	0.00	100.00	0.00	400.00
153	2	6	29	6	50.00	180000.00	60235.81	2.29	1414.94	400.00	0.00	100.00	0.00	400.00
154	3	6	29	7	50.00	180000.00	59542.71	2.28	1414.36	400.00	0.00	100.00	0.00	400.00
155	4	6	29	1	51.00	180000.00	58851.58	2.28	1413.79	400.00	0.00	100.00	0.00	400.00
156	5	6	29	2	51.00	180000.00	58160.44	2.27	1413.21	400.00	0.00	100.00	0.00	400.00
157	6	6	29	3	53.00	180000.00	57473.25	2.27	1412.64	400.00	0.00	100.00	0.00	400.00
158	7	6	29	4	52.00	180000.00	56784.08	2.27	1412.07	400.00	0.00	100.00	0.00	400.00
159	8	6	29	5	53.00	180000.00	56096.87	2.26	1411.49	400.00	0.00	100.00	0.00	400.00
160	9	6	29	6	56.00	180000.00	55415.61	2.26	1410.93	400.00	0.00	100.00	0.00	400.00
161	10	6	29	7	55.00	180000.00	54732.35	2.25	1410.36	400.00	0.00	100.00	0.00	400.00
162	11	6	29	1	59.00	180000.00	54057.02	2.25	1409.74	400.00	0.00	100.00	0.00	400.00
163	12	6	29	2	50.00	180000.00	53363.83	2.25	1409.00	400.00	0.00	100.00	0.00	400.00
164	13	6	29	3	50.00	180000.00	52670.63	2.24	1408.26	400.00	0.00	100.00	0.00	400.00
165	14	6	29	4	54.00	180000.00	51985.35	2.24	1407.53	400.00	0.00	100.00	0.00	400.00
166	15	6	29	5	53.00	180000.00	51298.08	2.23	1406.80	400.00	0.00	100.00	0.00	400.00
167	16	6	29	6	55.00	180000.00	50614.77	2.23	1406.07	400.00	0.00	100.00	0.00	400.00
168	17	6	29	7	55.00	180000.00	49931.45	2.23	1405.34	400.00	0.00	100.00	0.00	400.00
169	18	6	29	1	58.00	180000.00	49254.07	2.22	1404.61	400.00	0.00	100.00	0.00	400.00
170	19	6	29	2	50.00	180000.00	48560.82	2.22	1403.87	400.00	0.00	100.00	0.00	400.00
171	20	6	29	3	45.00	180000.00	47857.64	2.21	1403.12	400.00	0.00	100.00	0.00	400.00
172	21	6	29	4	46.00	180000.00	47156.43	2.21	1402.38	400.00	0.00	100.00	0.00	400.00
173	22	6	29	5	47.00	180000.00	46457.20	2.21	1401.63	400.00	0.00	100.00	0.00	400.00
174	23	6	29	6	43.00	180000.00	45750.03	2.20	1400.88	400.00	0.00	100.00	0.00	400.00
175	24	6	29	7	43.00	180000.00	45042.84	2.20	1400.12	400.00	0.00	100.00	0.00	400.00
176	25	6	29	1	43.00	180000.00	44335.65	2.19	1399.37	400.00	0.00	100.00	0.00	400.00
177	26	6	29	2	43.00	180000.00	43628.45	2.19	1398.61	400.00	0.00	100.00	0.00	400.00
178	27	6	29	3	43.00	180000.00	42921.24	2.18	1397.86	400.00	0.00	100.00	0.00	400.00
179	28	6	29	4	43.00	180000.00	42214.02	2.18	1397.10	400.00	0.00	100.00	0.00	400.00
180	29	6	29	5	43.00	180000.00	41506.79	2.18	1396.35	400.00	0.00	100.00	0.00	400.00
181	30	6	29	6	43.00	180000.00	40799.55	2.17	1395.59	400.00	0.00	100.00	0.00	400.00
182	1	7	29	7	43.00	180000.00	40092.74	2.17	1394.84	400.00	0.00	100.00	0.00	400.00
183	2	7	29	1	40.00	180000.00	39379.96	2.16	1394.08	400.00	0.00	100.00	0.00	400.00
184	3	7	29	2	40.00	180000.00	38667.16	2.16	1393.32	400.00	0.00	100.00	0.00	400.00
185	4	7	29	3	40.00	180000.00	37954.36	2.15	1392.56	400.00	0.00	100.00	0.00	400.00
186	5	7	29	4	40.00	180000.00	37241.53	2.15	1391.79	400.00	0.00	100.00	0.00	400.00

RUN10 (CONTINUED)

LOC NO=					4.	4.	4.	4.	4.	213.	213.	213.	213.	213.
PER	DY	MO	YR	DW	RES 4 INFLOW	RES 4 TOP CON.	RES 4 EOP STOR	RES 4 LEVEL	RES 4 EOP ELEV	C P 213 MIN DESI	C P 213 DEQ-SHOR	C P 213 MIN REQU	C P 213 REQ-SHOR	C P 213 FLOW REG
187	6	7	29	5	38.00	180000.00	36524.73	2.15	1391.03	400.00	0.00	100.00	0.00	400.00
188	7	7	29	6	38.00	180000.00	35807.92	2.14	1390.26	400.00	0.00	100.00	0.00	400.00
189	8	7	29	7	38.00	180000.00	35091.09	2.14	1389.34	400.00	0.00	100.00	0.00	400.00
190	9	7	29	1	37.00	180000.00	34372.26	2.13	1388.32	400.00	0.00	100.00	0.00	400.00
191	10	7	29	2	30.00	180000.00	33639.53	2.13	1387.29	400.00	0.00	100.00	0.00	400.00
192	11	7	29	3	30.00	180000.00	32906.78	2.12	1386.25	400.00	0.00	100.00	0.00	400.00
193	12	7	29	4	29.00	180000.00	32172.03	2.12	1385.21	400.00	0.00	100.00	0.00	400.00
194	13	7	29	5	30.00	180000.00	31439.26	2.12	1384.18	400.00	0.00	100.00	0.00	400.00
195	14	7	29	6	34.00	180000.00	30714.39	2.11	1383.15	400.00	0.00	100.00	0.00	400.00
196	15	7	29	7	34.00	180000.00	29989.51	2.11	1382.13	400.00	0.00	100.00	0.00	400.00
197	16	7	29	1	33.00	180000.00	29262.64	2.10	1381.10	400.00	0.00	100.00	0.00	400.00
198	17	7	29	2	35.00	180000.00	28539.71	2.10	1380.08	400.00	0.00	100.00	0.00	400.00
199	18	7	29	3	36.00	180000.00	27818.75	2.09	1379.06	400.00	0.00	100.00	0.00	400.00
200	19	7	29	4	35.00	180000.00	27095.79	2.09	1378.04	400.00	0.00	100.00	0.00	400.00
201	20	7	29	5	34.00	180000.00	26370.83	2.09	1377.01	400.00	0.00	100.00	0.00	400.00
202	21	7	29	6	35.00	180000.00	25647.83	2.08	1375.99	400.00	0.00	100.00	0.00	400.00
203	22	7	29	7	37.00	180000.00	24928.79	2.08	1374.97	400.00	0.00	100.00	0.00	400.00
204	23	7	29	1	37.00	180000.00	24209.73	2.07	1373.96	400.00	0.00	100.00	0.00	400.00
205	24	7	29	2	38.00	180000.00	23492.64	2.07	1372.94	400.00	0.00	100.00	0.00	400.00
206	25	7	29	3	39.00	180000.00	22777.52	2.06	1371.93	400.00	0.00	100.00	0.00	400.00
207	26	7	29	4	39.00	180000.00	22062.38	2.06	1370.92	400.00	0.00	100.00	0.00	400.00
208	27	7	29	5	39.00	180000.00	21347.22	2.06	1369.87	400.00	0.00	100.00	0.00	400.00
209	28	7	29	6	39.00	180000.00	20632.04	2.05	1368.34	400.00	0.00	100.00	0.00	400.00
210	29	7	29	7	38.00	180000.00	19914.85	2.05	1366.82	400.00	0.00	100.00	0.00	400.00
211	30	7	29	1	45.00	180000.00	19211.52	2.04	1365.32	400.00	0.00	100.00	0.00	400.00
212	31	7	29	2	45.00	180000.00	18508.16	2.04	1363.82	400.00	0.00	100.00	0.00	400.00
213	1	8	29	3	48.00	180000.00	17810.53	2.03	1362.33	400.00	0.00	100.00	0.00	400.00
214	2	8	29	4	49.00	180000.00	17114.86	2.03	1360.85	400.00	0.00	100.00	0.00	400.00
215	3	8	29	5	49.00	180000.00	16419.18	2.03	1359.37	400.00	0.00	100.00	0.00	400.00
216	4	8	29	6	50.00	180000.00	15725.45	2.02	1357.89	400.00	0.00	100.00	0.00	400.00
217	5	8	29	7	50.00	180000.00	15031.71	2.02	1356.41	400.00	0.00	100.00	0.00	400.00
218	6	8	29	1	51.00	180000.00	14339.93	2.01	1354.94	400.00	0.00	100.00	0.00	400.00
219	7	8	29	2	52.00	180000.00	13650.12	2.01	1353.47	400.00	0.00	100.00	0.00	400.00
220	8	8	29	3	52.00	180000.00	12960.29	2.01	1352.00	400.00	0.00	100.00	0.00	400.00
221	9	8	29	4	88.00	180000.00	12341.84	2.00	1350.69	400.00	0.00	100.00	0.00	400.00
222	10	8	29	5	88.00	180000.00	12020.00	2.00	1350.00	400.00	149.54	100.00	0.00	250.46
223	11	8	29	6	89.00	180000.00	11998.57	2.00	1349.92	400.00	300.00	100.00	0.00	100.00
224	12	8	29	7	89.00	180000.00	11977.14	2.00	1349.84	400.00	300.00	100.00	0.00	100.00
225	13	8	29	1	90.00	180000.00	11957.69	1.99	1349.77	400.00	300.00	100.00	0.00	100.00
226	14	8	29	2	92.00	180000.00	11942.21	1.99	1349.71	400.00	300.00	100.00	0.00	100.00
227	15	8	29	3	91.00	180000.00	11924.75	1.99	1349.64	400.00	300.00	100.00	0.00	100.00
228	16	8	29	4	92.00	180000.00	11909.26	1.99	1349.58	400.00	300.00	100.00	0.00	100.00
229	17	8	29	5	93.00	180000.00	11895.76	1.99	1349.53	400.00	300.00	100.00	0.00	100.00
230	18	8	29	6	95.00	180000.00	11886.23	1.99	1349.50	400.00	300.00	100.00	0.00	100.00
231	19	8	29	7	98.00	180000.00	11882.65	1.99	1349.48	400.00	300.00	100.00	0.00	100.00
232	20	8	29	1	90.00	180000.00	11863.20	1.99	1349.41	400.00	300.00	100.00	0.00	100.00
233	21	8	29	2	96.00	180000.00	11855.65	1.99	1349.38	400.00	300.00	100.00	0.00	100.00
234	22	8	29	3	99.00	180000.00	11854.05	1.99	1349.38	400.00	300.00	100.00	0.00	100.00
235	23	8	29	4	91.00	180000.00	11836.58	1.98	1349.31	400.00	300.00	100.00	0.00	100.00

RUN10 (CONTINUED)

LOC NO=					4.	4.	4.	4.	4.	213.	213.	213.	213.	213.
PER	DY	MO	YR	DW	RES 4 INFLOW	RES 4 TOP CON.	RES 4 EOP STOR	RES 4 LEVEL	RES 4 EOP ELEV	C P 213 MIN DESI	C P 213 DEQ-SHOR	C P 213 MIN REQU	C P 213 REQ-SHOR	C P 213 FLOW REG
236	24	8	29	5	98.00	180000.00	11833.00	1.98	1349.30	400.00	300.00	100.00	0.00	100.00
237	25	8	29	6	100.00	180000.00	11833.38	1.98	1349.30	400.00	300.00	100.00	0.00	100.00
238	26	8	29	7	101.00	180000.00	11835.75	1.98	1349.31	400.00	300.00	100.00	0.00	100.00
239	27	8	29	1	105.00	180000.00	11846.05	1.99	1349.35	400.00	300.00	100.00	0.00	100.00
240	28	8	29	2	107.00	180000.00	11860.32	1.99	1349.40	400.00	300.00	100.00	0.00	100.00
241	29	8	29	3	128.00	177227.60	11619.20	2.00	1348.49	400.00	150.25	100.00	0.00	249.75
242	30	8	29	4	135.00	174455.20	11218.40	2.00	1346.98	400.00	62.75	100.00	0.00	337.25
243	31	8	29	5	140.00	171682.80	10817.60	2.00	1345.47	400.00	57.75	100.00	0.00	342.25
244	1	9	29	6	144.00	168910.40	10416.80	2.00	1343.96	400.00	53.94	100.00	0.00	346.06
245	2	9	29	7	147.00	166138.00	10016.00	2.00	1342.45	400.00	50.94	100.00	0.00	349.06
246	3	9	29	1	150.00	163365.60	9615.20	2.00	1340.95	400.00	47.94	100.00	0.00	352.06
247	4	9	29	2	151.00	160593.20	9214.40	2.00	1339.44	400.00	46.94	100.00	0.00	353.06
248	5	9	29	3	157.00	157820.80	8813.60	2.00	1337.93	400.00	40.94	100.00	0.00	359.06
249	6	9	29	4	159.00	155048.40	8412.80	2.00	1336.42	400.00	38.94	100.00	0.00	361.06
250	7	9	29	5	161.00	152276.00	8012.00	2.00	1334.91	400.00	36.94	100.00	0.00	363.06
251	8	9	29	6	150.00	149503.60	7611.20	2.00	1333.40	400.00	47.94	100.00	0.00	352.06
252	9	9	29	7	150.00	146731.20	7210.40	2.00	1331.89	400.00	47.94	100.00	0.00	352.06
253	10	9	29	1	151.00	143958.80	6809.60	2.00	1330.38	400.00	46.94	100.00	0.00	353.06
254	11	9	29	2	153.00	141186.40	6408.80	2.00	1328.87	400.00	44.94	100.00	0.00	355.06
255	12	9	29	3	155.00	138414.00	6008.00	2.00	1327.36	400.00	42.94	100.00	0.00	357.06
256	13	9	29	4	157.00	135641.60	5607.20	2.00	1325.86	400.00	40.94	100.00	0.00	359.06
257	14	9	29	5	159.00	132869.20	5206.40	2.00	1323.72	400.00	38.94	100.00	0.00	361.06
258	15	9	29	6	161.00	130096.80	4805.60	2.00	1320.75	400.00	36.94	100.00	0.00	363.06
259	16	9	29	7	163.00	127324.40	4404.80	2.00	1317.79	400.00	34.94	100.00	0.00	365.06
260	17	9	29	1	165.00	124552.00	4004.00	2.00	1314.82	400.00	32.94	100.00	0.00	367.06
261	18	9	29	2	167.00	121779.60	3603.20	2.00	1311.86	400.00	30.94	100.00	0.00	369.06
262	19	9	29	3	169.00	119007.20	3202.40	2.00	1308.89	400.00	28.94	100.00	0.00	371.06
263	20	9	29	4	171.00	116234.80	2801.60	2.00	1305.93	400.00	26.94	100.00	0.00	373.06
264	21	9	29	5	173.00	113462.40	2400.80	2.00	1302.96	400.00	24.94	100.00	0.00	375.06
265	22	9	29	6	175.00	110690.00	2000.00	2.00	1300.00	400.00	22.94	100.00	0.00	377.06
266	23	9	29	7	177.00	110690.00	2000.00	2.00	1300.00	400.00	223.00	100.00	0.00	177.00
267	24	9	29	1	179.00	110690.00	2000.00	2.00	1300.00	400.00	221.00	100.00	0.00	179.00
268	25	9	29	2	180.00	110690.00	2000.00	2.00	1300.00	400.00	220.00	100.00	0.00	180.00
269	26	9	29	3	182.00	110690.00	2000.00	2.00	1300.00	400.00	218.00	100.00	0.00	182.00
270	27	9	29	4	184.00	110690.00	2000.00	2.00	1300.00	400.00	216.00	100.00	0.00	184.00
271	28	9	29	5	186.00	110690.00	2000.00	2.00	1300.00	400.00	214.00	100.00	0.00	186.00
272	29	9	29	6	188.00	110690.00	2000.00	2.00	1300.00	400.00	212.00	100.00	0.00	188.00
273	30	9	29	7	190.00	110690.00	2000.00	2.00	1300.00	400.00	210.00	100.00	0.00	190.00
274	1	10	29	1	192.00	110690.00	2000.00	2.00	1300.00	400.00	208.06	100.00	0.00	191.94
275	2	10	29	2	194.00	110690.00	2000.00	2.00	1300.00	400.00	206.06	100.00	0.00	193.94
276	3	10	29	3	196.00	110690.00	2000.00	2.00	1300.00	400.00	204.06	100.00	0.00	195.94
277	4	10	29	4	198.00	110690.00	2000.00	2.00	1300.00	400.00	202.06	100.00	0.00	197.94
278	5	10	29	5	200.00	110690.00	2000.00	2.00	1300.00	400.00	200.06	100.00	0.00	199.94
279	6	10	29	6	202.00	110690.00	2000.00	2.00	1300.00	400.00	198.06	100.00	0.00	201.94
280	7	10	29	7	204.00	110690.00	2000.00	2.00	1300.00	400.00	196.06	100.00	0.00	203.94
281	8	10	29	1	206.00	110690.00	2000.00	2.00	1300.00	400.00	194.06	100.00	0.00	205.94
282	9	10	29	2	208.00	110690.00	2000.00	2.00	1300.00	400.00	192.06	100.00	0.00	207.94
283	10	10	29	3	221.00	110690.00	2000.00	2.00	1300.00	400.00	179.06	100.00	0.00	220.94

RUN10 (CONTINUED)

LOC NO=					4.	4.	4.	4.	4.	213.	213.	213.	213.	213.
PER	DY	MO	YR	DW	RES 4 INFLOW	RES 4 TOP CON.	RES 4 EOP STOR	RES 4 LEVEL	RES 4 EOP ELEV	C P 213 MIN DESI	C P 213 DEQ-SHOR	C P 213 MIN REQU	C P 213 REQ-SHOR	C P 213 FLOW REG
284	11	10	29	4	234.00	110690.00	2000.00	2.00	1300.00	400.00	166.06	100.00	0.00	233.94
285	12	10	29	5	247.00	110690.00	2000.00	2.00	1300.00	400.00	153.06	100.00	0.00	246.94
286	13	10	29	6	261.00	110690.00	2000.00	2.00	1300.00	400.00	139.06	100.00	0.00	260.94
287	14	10	29	7	274.00	110690.00	2000.00	2.00	1300.00	400.00	126.06	100.00	0.00	273.94
288	15	10	29	1	287.00	110690.00	2000.00	2.00	1300.00	400.00	113.06	100.00	0.00	286.94
289	16	10	29	2	301.00	110690.00	2000.00	2.00	1300.00	400.00	99.06	100.00	0.00	300.94
290	17	10	29	3	314.00	110690.00	2000.00	2.00	1300.00	400.00	86.06	100.00	0.00	313.94
291	18	10	29	4	327.00	110690.00	2000.00	2.00	1300.00	400.00	73.06	100.00	0.00	326.94
292	19	10	29	5	341.00	110690.00	2000.00	2.00	1300.00	400.00	59.06	100.00	0.00	340.94
293	20	10	29	6	354.00	110690.00	2000.00	2.00	1300.00	400.00	46.06	100.00	0.00	353.94
294	21	10	29	7	367.00	110690.00	2000.00	2.00	1300.00	400.00	33.06	100.00	0.00	366.94
295	22	10	29	1	381.00	110690.00	2000.00	2.00	1300.00	400.00	19.06	100.00	0.00	380.94
296	23	10	29	2	394.00	110690.00	2000.00	2.00	1300.00	400.00	6.06	100.00	0.00	393.94
297	24	10	29	3	408.00	110690.00	2015.76	2.00	1300.12	400.00	0.00	100.00	0.00	400.00
298	25	10	29	4	421.00	110690.00	2057.30	2.00	1300.42	400.00	0.00	100.00	0.00	400.00
299	26	10	29	5	434.00	110690.00	2124.62	2.00	1300.92	400.00	0.00	100.00	0.00	400.00
300	27	10	29	6	447.00	110690.00	2217.72	2.00	1301.61	400.00	0.00	100.00	0.00	400.00
301	28	10	29	7	461.00	110690.00	2338.59	2.00	1302.50	400.00	0.00	100.00	0.00	400.00
302	29	10	29	1	474.00	110690.00	2485.24	2.00	1303.59	400.00	0.00	100.00	0.00	400.00
303	30	10	29	2	487.00	110690.00	2657.67	2.01	1304.86	400.00	0.00	100.00	0.00	400.00
304	31	10	29	3	501.00	110690.00	2857.86	2.01	1306.35	400.00	0.00	100.00	0.00	400.00
305	1	11	29	4	514.00	110690.00	3084.78	2.01	1308.02	400.00	0.00	100.00	0.00	400.00
306	2	11	29	5	527.00	110690.00	3337.54	2.01	1309.89	400.00	0.00	100.00	0.00	400.00
307	3	11	29	6	541.00	110690.00	3618.14	2.01	1311.97	400.00	0.00	100.00	0.00	400.00
308	4	11	29	7	554.00	110690.00	3924.58	2.02	1314.24	400.00	0.00	100.00	0.00	400.00
309	5	11	29	1	567.00	110690.00	4256.88	2.02	1316.69	400.00	0.00	100.00	0.00	400.00
310	6	11	29	2	581.00	110690.00	4617.03	2.02	1319.36	400.00	0.00	100.00	0.00	400.00
311	7	11	29	3	594.00	110690.00	5003.05	2.03	1322.21	400.00	0.00	100.00	0.00	400.00
312	8	11	29	4	608.00	110690.00	5416.93	2.03	1325.14	400.00	0.00	100.00	0.00	400.00
313	9	11	29	5	608.00	110690.00	5830.90	2.04	1326.70	400.00	0.00	100.00	0.00	400.00
314	10	11	29	6	608.00	110690.00	6244.93	2.04	1328.26	400.00	0.00	100.00	0.00	400.00
315	11	11	29	7	608.00	110690.00	6659.05	2.04	1329.82	400.00	0.00	100.00	0.00	400.00
316	12	11	29	1	608.00	110690.00	7073.23	2.05	1331.38	400.00	0.00	100.00	0.00	400.00
317	13	11	29	2	608.00	110690.00	7487.50	2.05	1332.93	400.00	0.00	100.00	0.00	400.00
318	14	11	29	3	609.00	110690.00	7903.82	2.05	1334.50	400.00	0.00	100.00	0.00	400.00
319	15	11	29	4	609.00	110690.00	8320.22	2.06	1336.07	400.00	0.00	100.00	0.00	400.00
320	16	11	29	5	609.00	110690.00	8736.69	2.06	1337.64	400.00	0.00	100.00	0.00	400.00
321	17	11	29	6	609.00	110690.00	9153.24	2.07	1339.21	400.00	0.00	100.00	0.00	400.00
322	18	11	29	7	609.00	110690.00	9569.86	2.07	1340.78	400.00	0.00	100.00	0.00	400.00
323	19	11	29	1	610.00	110690.00	9988.55	2.07	1342.35	400.00	0.00	100.00	0.00	400.00
324	20	11	29	2	610.00	110690.00	10407.31	2.08	1343.93	400.00	0.00	100.00	0.00	400.00
325	21	11	29	3	610.00	110690.00	10826.14	2.08	1345.51	400.00	0.00	100.00	0.00	400.00
326	22	11	29	4	610.00	110690.00	11245.06	2.09	1347.08	400.00	0.00	100.00	0.00	400.00
327	23	11	29	5	611.00	110690.00	11666.03	2.09	1348.67	400.00	0.00	100.00	0.00	400.00
328	24	11	29	6	611.00	110690.00	12087.08	2.09	1350.14	400.00	0.00	100.00	0.00	400.00
329	25	11	29	7	611.00	110690.00	12508.20	2.10	1351.04	400.00	0.00	100.00	0.00	400.00
330	26	11	29	1	611.00	110690.00	12929.41	2.10	1351.94	400.00	0.00	100.00	0.00	400.00
331	27	11	29	2	611.00	110690.00	13350.69	2.10	1352.83	400.00	0.00	100.00	0.00	400.00

RUN10 (CONTINUED)

LOC NO=					4.	4.	4.	4.	4.	213.	213.	213.	213.	213.
PER	DY	MO	YR	DW	RES 4 INFLOW	RES 4 TOP CON.	RES 4 EOP STOR	RES 4 LEVEL	RES 4 EOP ELEV	C P 213 MIN DESI	C P 213 DEQ-SHOR	C P 213 MIN REQU	C P 213 REQ-SHOR	C P 213 FLOW REG
332	28	11	29	3	611.00	110690.00	13772.04	2.11	1353.73	400.00	0.00	100.00	0.00	400.00
333	29	11	29	4	612.00	110690.00	14195.46	2.11	1354.63	400.00	0.00	100.00	0.00	400.00
334	30	11	29	5	612.00	110690.00	14618.96	2.12	1355.54	400.00	0.00	100.00	0.00	400.00
335	1	12	29	6	612.00	110690.00	15042.25	2.12	1356.44	400.00	0.00	100.00	0.00	400.00
336	2	12	29	7	612.00	110690.00	15465.60	2.12	1357.34	400.00	0.00	100.00	0.00	400.00
337	3	12	29	1	612.00	110690.00	15889.03	2.13	1358.24	400.00	0.00	100.00	0.00	400.00
338	4	12	29	2	613.00	110690.00	16314.50	2.13	1359.15	400.00	0.00	100.00	0.00	400.00
339	5	12	29	3	613.00	110690.00	16740.05	2.14	1360.05	400.00	0.00	100.00	0.00	400.00
340	6	12	29	4	613.00	110690.00	17165.68	2.14	1360.96	400.00	0.00	100.00	0.00	400.00
341	7	12	29	5	613.00	110690.00	17591.37	2.14	1361.87	400.00	0.00	100.00	0.00	400.00
342	8	12	29	6	614.00	110690.00	18019.12	2.15	1362.78	400.00	0.00	100.00	0.00	400.00
343	9	12	29	7	611.00	110690.00	18440.98	2.15	1363.68	400.00	0.00	100.00	0.00	400.00
344	10	12	29	1	609.00	110690.00	18858.95	2.16	1364.57	400.00	0.00	100.00	0.00	400.00
345	11	12	29	2	607.00	110690.00	19273.03	2.16	1365.45	400.00	0.00	100.00	0.00	400.00
346	12	12	29	3	605.00	110690.00	19683.20	2.16	1366.32	400.00	0.00	100.00	0.00	400.00
347	13	12	29	4	603.00	110690.00	20089.48	2.17	1367.19	400.00	0.00	100.00	0.00	400.00
348	14	12	29	5	601.00	110690.00	20491.85	2.17	1368.04	400.00	0.00	100.00	0.00	400.00
349	15	12	29	6	599.00	110690.00	20890.33	2.17	1368.89	400.00	0.00	100.00	0.00	400.00
350	16	12	29	7	597.00	110690.00	21284.90	2.18	1369.73	400.00	0.00	100.00	0.00	400.00
351	17	12	29	1	595.00	110690.00	21675.57	2.18	1370.38	400.00	0.00	100.00	0.00	400.00
352	18	12	29	2	593.00	110690.00	22062.31	2.18	1370.92	400.00	0.00	100.00	0.00	400.00
353	19	12	29	3	591.00	110690.00	22445.13	2.19	1371.46	400.00	0.00	100.00	0.00	400.00
354	20	12	29	4	589.00	110690.00	22824.01	2.19	1372.00	400.00	0.00	100.00	0.00	400.00
355	21	12	29	5	587.00	110690.00	23198.96	2.20	1372.53	400.00	0.00	100.00	0.00	400.00
356	22	12	29	6	585.00	110690.00	23569.99	2.20	1373.05	400.00	0.00	100.00	0.00	400.00
357	23	12	29	7	583.00	110690.00	23937.08	2.20	1373.57	400.00	0.00	100.00	0.00	400.00
358	24	12	29	1	581.00	110690.00	24300.24	2.21	1374.09	400.00	0.00	100.00	0.00	400.00
359	25	12	29	2	579.00	110690.00	24659.47	2.21	1374.59	400.00	0.00	100.00	0.00	400.00
360	26	12	29	3	577.00	110690.00	25014.77	2.21	1375.10	400.00	0.00	100.00	0.00	400.00
361	27	12	29	4	575.00	110690.00	25366.14	2.21	1375.59	400.00	0.00	100.00	0.00	400.00
362	28	12	29	5	573.00	110690.00	25713.58	2.22	1376.08	400.00	0.00	100.00	0.00	400.00
363	29	12	29	6	571.00	110690.00	26057.08	2.22	1376.57	400.00	0.00	100.00	0.00	400.00
364	30	12	29	7	569.00	110690.00	26396.65	2.22	1377.05	400.00	0.00	100.00	0.00	400.00
365	31	12	29	1	567.00	110690.00	26732.29	2.23	1377.52	400.00	0.00	100.00	0.00	400.00
				SUM =	108465.00	48511120.00	18504089.79	873.40	506801.49	146000.00	11519.24	36500.00	0.00	151486.39
				MAX =	1104.00	180000.00	110690.00	3.00	1450.00	400.00	300.00	100.00	0.00	1108.07
				MIN =	29.00	110690.00	2000.00	1.98	1300.00	400.00	0.00	100.00	0.00	100.00
				PMAX=	1.00	151.00	1.00	1.00	1.00	1.00	223.00	1.00	1.00	1.00
				AVG =	297.16	132907.18	50696.14	2.39	1388.50	400.00	31.56	100.00	0.00	415.03
				PMIN=	193.00	1.00	266.00	236.00	265.00	1.00	1.00	1.00	1.00	223.00

RUN11 - SUMMARY OUTPUT

SUMMARY BY PERIOD FLOOD= 1

LOC NO=					4.	4.	4.	4.	4.	213.	213.	213.	213.	213.
CODE=					4.090	4.380	4.110	4.130	4.220	213.050	213.060	213.070	213.080	213.040
PER	DY	MO	YR	DW	RES 4 INFLOW	RES 4 TOP CON.	RES 4 EOP STOR	RES 4 LEVEL	RES 4 EOP ELEV	C P 213 MIN DESI	C P 213 DEQ-SHOR	C P 213 MIN REQU	C P 213 REQ-SHOR	C P 213 FLOW REG
1	1	1	29	1	1104.00	110690.00	72902.13	2.65	1425.48	400.00	0.00	100.00	0.00	400.00
2	2	1	29	2	1090.00	110690.00	74276.57	2.66	1426.62	400.00	0.00	100.00	0.00	400.00
3	3	1	29	3	1076.00	110690.00	75524.16	2.68	1427.66	450.00	0.00	100.00	0.00	450.00
4	4	1	29	4	1062.00	110690.00	76744.06	2.69	1428.67	450.00	0.00	100.00	0.00	450.00
5	5	1	29	5	1048.00	110690.00	77936.26	2.70	1429.66	450.00	0.00	100.00	0.00	450.00
6	6	1	29	6	1034.00	110690.00	79100.77	2.71	1430.47	450.00	0.00	100.00	0.00	450.00
7	7	1	29	7	1020.00	110690.00	80237.59	2.72	1431.17	450.00	0.00	100.00	0.00	450.00
8	8	1	29	1	1006.00	110690.00	81346.70	2.73	1431.86	450.00	0.00	100.00	0.00	450.00
9	9	1	29	2	992.00	110690.00	82428.10	2.74	1432.53	450.00	0.00	100.00	0.00	450.00
10	10	1	29	3	978.00	110690.00	83481.81	2.75	1433.18	450.00	0.00	100.00	0.00	450.00
11	11	1	29	4	964.00	110690.00	84507.80	2.76	1433.81	450.00	0.00	100.00	0.00	450.00
12	12	1	29	5	950.00	110690.00	85506.09	2.77	1434.43	450.00	0.00	100.00	0.00	450.00
13	13	1	29	6	936.00	110690.00	86476.67	2.78	1435.03	450.00	0.00	100.00	0.00	450.00
14	14	1	29	7	922.00	110690.00	87419.53	2.79	1435.61	450.00	0.00	100.00	0.00	450.00
15	15	1	29	1	908.00	110690.00	88334.69	2.79	1436.18	450.00	0.00	100.00	0.00	450.00
16	16	1	29	2	894.00	110690.00	89222.13	2.80	1436.73	450.00	0.00	100.00	0.00	450.00
17	17	1	29	3	880.00	110690.00	90081.85	2.81	1437.26	450.00	0.00	100.00	0.00	450.00
18	18	1	29	4	866.00	110690.00	90913.85	2.82	1437.77	450.00	0.00	100.00	0.00	450.00
19	19	1	29	5	852.00	110690.00	91718.14	2.83	1438.27	450.00	0.00	100.00	0.00	450.00
20	20	1	29	6	838.00	110690.00	92494.70	2.83	1438.75	450.00	0.00	100.00	0.00	450.00
21	21	1	29	7	824.00	110690.00	93243.54	2.84	1439.21	450.00	0.00	100.00	0.00	450.00
22	22	1	29	1	810.00	110690.00	93964.65	2.85	1439.66	450.00	0.00	100.00	0.00	450.00
23	23	1	29	2	792.00	110690.00	94650.11	2.85	1440.08	450.00	0.00	100.00	0.00	450.00
24	24	1	29	3	774.00	110690.00	95299.90	2.86	1440.49	450.00	0.00	100.00	0.00	450.00
25	25	1	29	4	757.00	110690.00	95916.01	2.86	1440.87	450.00	0.00	100.00	0.00	450.00
26	26	1	29	5	739.00	110690.00	96496.45	2.87	1441.23	450.00	0.00	100.00	0.00	450.00
27	27	1	29	6	722.00	110690.00	97043.21	2.87	1441.56	450.00	0.00	100.00	0.00	450.00
28	28	1	29	7	704.00	110690.00	97554.29	2.88	1441.88	450.00	0.00	100.00	0.00	450.00
29	29	1	29	1	687.00	110690.00	98031.69	2.88	1442.17	450.00	0.00	100.00	0.00	450.00
30	30	1	29	2	669.00	110690.00	98473.41	2.89	1442.45	450.00	0.00	100.00	0.00	450.00
31	31	1	29	3	651.00	110690.00	98879.45	2.89	1442.70	450.00	0.00	100.00	0.00	450.00
32	1	2	29	4	634.00	110690.00	99251.57	2.89	1442.93	450.00	0.00	100.00	0.00	450.00
33	2	2	29	5	616.00	110690.00	99588.00	2.90	1443.14	450.00	0.00	100.00	0.00	450.00
34	3	2	29	6	599.00	110690.00	99890.73	2.90	1443.32	450.00	0.00	100.00	0.00	450.00
35	4	2	29	7	581.00	110690.00	100157.77	2.90	1443.49	450.00	0.00	100.00	0.00	450.00
36	5	2	29	1	564.00	110690.00	100391.12	2.91	1443.63	450.00	0.00	100.00	0.00	450.00
37	6	2	29	2	546.00	110690.00	100588.76	2.91	1443.76	450.00	0.00	100.00	0.00	450.00
38	7	2	29	3	528.00	110690.00	100750.72	2.91	1443.86	450.00	0.00	100.00	0.00	450.00
39	8	2	29	4	511.00	110690.00	100878.97	2.91	1443.93	450.00	0.00	100.00	0.00	450.00
40	9	2	29	5	493.00	110690.00	100971.52	2.91	1443.99	450.00	0.00	100.00	0.00	450.00
41	10	2	29	6	476.00	110690.00	101030.35	2.91	1444.03	450.00	0.00	100.00	0.00	450.00
42	11	2	29	7	458.00	110690.00	101053.49	2.91	1444.04	450.00	0.00	100.00	0.00	450.00

RUN11 (CONTINUED)

LOC NO=					4.	4.	4.	4.	4.	213.	213.	213.	213.	213.
PER	DY	MO	YR	DW	RES 4 INFLOW	RES 4 TOP CON.	RES 4 EOP STOR	RES 4 LEVEL	RES 4 EOP ELEV	C P 213 MIN DESI	C P 213 DEQ-SHOR	C P 213 MIN REQU	C P 213 REQ-SHOR	C P 213 FLOW REG
43	12	2	29	1	441.00	110690.00	101042.90	2.91	1444.04	450.00	0.00	100.00	0.00	450.00
44	13	2	29	2	423.00	110690.00	100996.61	2.91	1444.01	450.00	0.00	100.00	0.00	450.00
45	14	2	29	3	405.00	110690.00	100914.62	2.91	1443.96	450.00	0.00	100.00	0.00	450.00
46	15	2	29	4	388.00	110690.00	100798.89	2.91	1443.88	450.00	0.00	100.00	0.00	450.00
47	16	2	29	5	370.00	110690.00	100647.46	2.91	1443.79	450.00	0.00	100.00	0.00	450.00
48	17	2	29	6	353.00	110690.00	100462.30	2.91	1443.68	450.00	0.00	100.00	0.00	450.00
49	18	2	29	7	335.00	110690.00	100241.42	2.90	1443.54	450.00	0.00	100.00	0.00	450.00
50	19	2	29	1	318.00	110690.00	99986.81	2.90	1443.38	450.00	0.00	100.00	0.00	450.00
51	20	2	29	2	300.00	110690.00	99696.49	2.90	1443.20	450.00	0.00	100.00	0.00	450.00
52	21	2	29	3	283.00	110690.00	99372.42	2.90	1443.00	450.00	0.00	100.00	0.00	450.00
53	22	2	29	4	279.00	110690.00	99040.40	2.89	1442.80	450.00	0.00	100.00	0.00	450.00
54	23	2	29	5	275.00	110690.00	98700.43	2.89	1442.59	450.00	0.00	100.00	0.00	450.00
55	24	2	29	6	271.00	110690.00	98352.50	2.89	1442.37	450.00	0.00	100.00	0.00	450.00
56	25	2	29	7	267.00	110690.00	97996.62	2.88	1442.15	450.00	0.00	100.00	0.00	450.00
57	26	2	29	1	263.00	110690.00	97632.79	2.88	1441.93	450.00	0.00	100.00	0.00	450.00
58	27	2	29	2	259.00	110690.00	97260.99	2.88	1441.70	450.00	0.00	100.00	0.00	450.00
59	28	2	29	3	255.00	110690.00	96881.25	2.87	1441.46	450.00	0.00	100.00	0.00	450.00
60	1	3	29	4	251.00	110690.00	96495.78	2.87	1441.22	450.00	0.00	100.00	0.00	450.00
61	2	3	29	5	247.00	110690.00	96102.34	2.87	1440.98	450.00	0.00	100.00	0.00	450.00
62	3	3	29	6	243.00	110690.00	95700.94	2.86	1440.73	450.00	0.00	100.00	0.00	450.00
63	4	3	29	7	239.00	110690.00	95291.58	2.86	1440.48	450.00	0.00	100.00	0.00	450.00
64	5	3	29	1	235.00	110690.00	94874.24	2.85	1440.22	450.00	0.00	100.00	0.00	450.00
65	6	3	29	2	231.00	110690.00	94448.95	2.85	1439.96	450.00	0.00	100.00	0.00	450.00
66	7	3	29	3	227.00	110690.00	94015.68	2.85	1439.69	450.00	0.00	100.00	0.00	450.00
67	8	3	29	4	223.00	110690.00	93574.45	2.84	1439.42	450.00	0.00	100.00	0.00	450.00
68	9	3	29	5	219.00	110690.00	93125.25	2.84	1439.14	450.00	0.00	100.00	0.00	450.00
69	10	3	29	6	215.00	110690.00	92668.08	2.83	1438.86	450.00	0.00	100.00	0.00	450.00
70	11	3	29	7	211.00	110690.00	92202.95	2.83	1438.57	450.00	0.00	100.00	0.00	450.00
71	12	3	29	1	207.00	110690.00	91729.84	2.83	1438.28	450.00	0.00	100.00	0.00	450.00
72	13	3	29	2	203.00	110690.00	91248.76	2.82	1437.98	450.00	0.00	100.00	0.00	450.00
73	14	3	29	3	199.00	110690.00	90759.71	2.82	1437.68	450.00	0.00	100.00	0.00	450.00
74	15	3	29	4	195.00	110690.00	90262.69	2.81	1437.37	450.00	0.00	100.00	0.00	450.00
75	16	3	29	5	191.00	110690.00	89757.70	2.81	1437.06	450.00	0.00	100.00	0.00	450.00
76	17	3	29	6	187.00	110690.00	89244.73	2.80	1436.74	450.00	0.00	100.00	0.00	450.00
77	18	3	29	7	183.00	110690.00	88723.79	2.80	1436.42	450.00	0.00	100.00	0.00	450.00
78	19	3	29	1	179.00	110690.00	88194.87	2.79	1436.09	450.00	0.00	100.00	0.00	450.00
79	20	3	29	2	175.00	110690.00	87657.98	2.79	1435.76	450.00	0.00	100.00	0.00	450.00
80	21	3	29	3	171.00	110690.00	87113.12	2.78	1435.42	450.00	0.00	100.00	0.00	450.00
81	22	3	29	4	167.00	110690.00	86560.28	2.78	1435.08	450.00	0.00	100.00	0.00	450.00
82	23	3	29	5	163.00	110690.00	85999.46	2.77	1434.74	450.00	0.00	100.00	0.00	450.00
83	24	3	29	6	162.00	110690.00	85436.62	2.77	1434.39	450.00	0.00	100.00	0.00	450.00
84	25	3	29	7	162.00	110690.00	84873.73	2.76	1434.04	450.00	0.00	100.00	0.00	450.00
85	26	3	29	1	161.00	110690.00	84308.81	2.76	1433.69	450.00	0.00	100.00	0.00	450.00
86	27	3	29	2	161.00	110690.00	83743.86	2.75	1433.34	450.00	0.00	100.00	0.00	450.00
87	28	3	29	3	160.00	110690.00	83176.87	2.75	1432.99	450.00	0.00	100.00	0.00	450.00
88	29	3	29	4	160.00	110690.00	82609.84	2.74	1432.64	450.00	0.00	100.00	0.00	450.00
89	30	3	29	5	159.00	110690.00	82040.79	2.74	1432.29	450.00	0.00	100.00	0.00	450.00
90	31	3	29	6	159.00	110690.00	81471.69	2.73	1431.94	450.00	0.00	100.00	0.00	450.00

RUN11 (CONTINUED)

LOC NO=					4.	4.	4.	4.	4.	213.	213.	213.	213.	213.
PER	DY	MO	YR	DW	RES 4 INFLOW	RES 4 TOP CON.	RES 4 EOP STOR	RES 4 LEVEL	RES 4 EOP ELEV	C P 213 MIN DESI	C P 213 DEQ-SHOR	C P 213 MIN REQU	C P 213 REQ-SHOR	C P 213 FLOW REG
91	1	4	29	7	159.00	110690.00	80903.98	2.73	1431.59	450.00	0.00	100.00	0.00	450.00
92	2	4	29	1	158.00	110690.00	80334.23	2.72	1431.23	450.00	0.00	100.00	0.00	450.00
93	3	4	29	2	158.00	110690.00	79764.43	2.72	1430.88	450.00	0.00	100.00	0.00	450.00
94	4	4	29	3	157.00	110690.00	79192.59	2.71	1430.53	450.00	0.00	100.00	0.00	450.00
95	5	4	29	4	157.00	110690.00	78620.71	2.70	1430.17	450.00	0.00	100.00	0.00	450.00
96	6	4	29	5	156.00	110690.00	78046.78	2.70	1429.76	450.00	0.00	100.00	0.00	450.00
97	7	4	29	6	156.00	110690.00	77472.81	2.69	1429.28	450.00	0.00	100.00	0.00	450.00
98	8	4	29	7	156.00	110690.00	76898.77	2.69	1428.80	450.00	0.00	100.00	0.00	450.00
99	9	4	29	1	155.00	110690.00	76322.70	2.68	1428.32	450.00	0.00	100.00	0.00	450.00
100	10	4	29	2	155.00	110690.00	75746.57	2.68	1427.84	450.00	0.00	100.00	0.00	450.00
101	11	4	29	3	154.00	110690.00	75168.41	2.67	1427.36	450.00	0.00	100.00	0.00	450.00
102	12	4	29	4	154.00	110690.00	74590.18	2.67	1426.88	450.00	0.00	100.00	0.00	450.00
103	13	4	29	5	153.00	110690.00	74009.92	2.66	1426.40	450.00	0.00	100.00	0.00	450.00
104	14	4	29	6	153.00	110690.00	73429.60	2.66	1425.91	450.00	0.00	100.00	0.00	450.00
105	15	4	29	7	153.00	110690.00	72849.23	2.65	1425.43	450.00	0.00	100.00	0.00	450.00
106	16	4	29	1	152.00	110690.00	72266.82	2.65	1424.95	450.00	0.00	100.00	0.00	450.00
107	17	4	29	2	152.00	110690.00	71684.35	2.64	1424.46	450.00	0.00	100.00	0.00	450.00
108	18	4	29	3	151.00	110690.00	71199.01	2.64	1424.06	400.00	0.00	100.00	0.00	400.00
109	19	4	29	4	151.00	110690.00	70713.64	2.63	1423.66	400.00	0.00	100.00	0.00	400.00
110	20	4	29	5	150.00	110690.00	70226.23	2.63	1423.25	400.00	0.00	100.00	0.00	400.00
111	21	4	29	6	150.00	110690.00	69738.77	2.62	1422.84	400.00	0.00	100.00	0.00	400.00
112	22	4	29	7	148.00	110690.00	69247.30	2.62	1422.44	400.00	0.00	100.00	0.00	400.00
113	23	4	29	1	145.00	110690.00	68749.84	2.61	1422.02	400.00	0.00	100.00	0.00	400.00
114	24	4	29	2	142.00	110690.00	68246.37	2.61	1421.60	400.00	0.00	100.00	0.00	400.00
115	25	4	29	3	135.00	110690.00	67728.97	2.60	1421.17	400.00	0.00	100.00	0.00	400.00
116	26	4	29	4	130.00	110690.00	67201.60	2.60	1420.73	400.00	0.00	100.00	0.00	400.00
117	27	4	29	5	125.00	110690.00	66664.26	2.59	1420.29	400.00	0.00	100.00	0.00	400.00
118	28	4	29	6	119.00	110690.00	66114.97	2.59	1419.83	400.00	0.00	100.00	0.00	400.00
119	29	4	29	7	117.00	110690.00	65561.66	2.58	1419.37	400.00	0.00	100.00	0.00	400.00
120	30	4	29	1	113.00	110690.00	65000.36	2.58	1418.90	400.00	0.00	100.00	0.00	400.00
121	1	5	29	2	112.00	112925.81	64430.84	2.56	1418.43	400.00	0.00	100.00	0.00	400.00
122	2	5	29	3	109.00	115161.61	63855.35	2.55	1417.95	400.00	0.00	100.00	0.00	400.00
123	3	5	29	4	99.00	117397.42	63260.01	2.53	1417.45	400.00	0.00	100.00	0.00	400.00
124	4	5	29	5	99.00	119633.23	62664.66	2.52	1416.96	400.00	0.00	100.00	0.00	400.00
125	5	5	29	6	98.00	121869.03	62067.32	2.50	1416.46	400.00	0.00	100.00	0.00	400.00
126	6	5	29	7	96.00	124104.84	61465.99	2.49	1415.96	400.00	0.00	100.00	0.00	400.00
127	7	5	29	1	94.00	126340.65	60860.69	2.47	1415.46	400.00	0.00	100.00	0.00	400.00
128	8	5	29	2	94.00	128576.45	60255.37	2.46	1414.95	400.00	0.00	100.00	0.00	400.00
129	9	5	29	3	92.00	130812.26	59646.07	2.45	1414.45	400.00	0.00	100.00	0.00	400.00
130	10	5	29	4	91.00	133048.06	59034.78	2.44	1413.94	400.00	0.00	100.00	0.00	400.00
131	11	5	29	5	90.00	135283.87	58421.49	2.42	1413.43	400.00	0.00	100.00	0.00	400.00
132	12	5	29	6	91.00	137519.68	57810.17	2.41	1412.92	400.00	0.00	100.00	0.00	400.00
133	13	5	29	7	86.00	139755.48	57188.92	2.40	1412.40	400.00	0.00	100.00	0.00	400.00
134	14	5	29	1	85.00	141991.29	56565.67	2.39	1411.88	400.00	0.00	100.00	0.00	400.00
135	15	5	29	2	86.00	144227.10	55944.40	2.38	1411.37	400.00	0.00	100.00	0.00	400.00
136	16	5	29	3	86.00	146462.90	55323.11	2.37	1410.85	400.00	0.00	100.00	0.00	400.00
137	17	5	29	4	86.00	148698.71	54701.81	2.36	1410.33	400.00	0.00	100.00	0.00	400.00
138	18	5	29	5	87.00	150934.52	54082.48	2.35	1409.77	400.00	0.00	100.00	0.00	400.00

RUN11 (CONTINUED)

LOC NO=					4.	4.	4.	4.	4.	213.	213.	213.	213.	213.
PER	DY	MO	YR	DW	RES 4 INFLOW	RES 4 TOP CON.	RES 4 EOP STOR	RES 4 LEVEL	RES 4 EOP ELEV	C P 213 MIN DESI	C P 213 DEQ-SHOR	C P 213 MIN REQU	C P 213 REQ-SHOR	C P 213 FLOW REG
139	19	5	29	6	88.00	153170.32	53465.12	2.34	1409.11	400.00	0.00	100.00	0.00	400.00
140	20	5	29	7	87.00	155406.13	52845.76	2.33	1408.45	400.00	0.00	100.00	0.00	400.00
141	21	5	29	1	75.00	157641.94	52202.59	2.32	1407.76	400.00	0.00	100.00	0.00	400.00
142	22	5	29	2	75.00	159877.74	51559.41	2.31	1407.08	400.00	0.00	100.00	0.00	400.00
143	23	5	29	3	74.00	162113.55	50914.24	2.31	1406.39	400.00	0.00	100.00	0.00	400.00
144	24	5	29	4	75.00	164349.35	50271.03	2.30	1405.70	400.00	0.00	100.00	0.00	400.00
145	25	5	29	5	73.00	166585.16	49623.85	2.29	1405.01	400.00	0.00	100.00	0.00	400.00
146	26	5	29	6	71.00	168820.97	48972.69	2.28	1404.31	400.00	0.00	100.00	0.00	400.00
147	27	5	29	7	70.00	171056.77	48319.53	2.27	1403.62	400.00	0.00	100.00	0.00	400.00
148	28	5	29	1	60.00	173292.58	47646.53	2.27	1402.90	400.00	0.00	100.00	0.00	400.00
149	29	5	29	2	60.00	175528.39	46973.51	2.26	1402.18	400.00	0.00	100.00	0.00	400.00
150	30	5	29	3	50.00	177764.19	46280.64	2.25	1401.44	400.00	0.00	100.00	0.00	400.00
151	31	5	29	4	56.00	180000.00	45599.67	2.24	1400.71	400.00	0.00	100.00	0.00	400.00
152	1	6	29	5	53.00	180000.00	44912.32	2.24	1399.98	400.00	0.00	100.00	0.00	400.00
153	2	6	29	6	50.00	180000.00	44219.01	2.24	1399.24	400.00	0.00	100.00	0.00	400.00
154	3	6	29	7	50.00	180000.00	43525.69	2.23	1398.50	400.00	0.00	100.00	0.00	400.00
155	4	6	29	1	51.00	180000.00	42834.34	2.23	1397.76	400.00	0.00	100.00	0.00	400.00
156	5	6	29	2	51.00	180000.00	42142.99	2.23	1397.03	400.00	0.00	100.00	0.00	400.00
157	6	6	29	3	53.00	180000.00	41455.60	2.22	1396.29	400.00	0.00	100.00	0.00	400.00
158	7	6	29	4	52.00	180000.00	40766.21	2.22	1395.56	400.00	0.00	100.00	0.00	400.00
159	8	6	29	5	53.00	180000.00	40078.80	2.21	1394.82	400.00	0.00	100.00	0.00	400.00
160	9	6	29	6	56.00	180000.00	39397.33	2.21	1394.10	400.00	0.00	100.00	0.00	400.00
161	10	6	29	7	55.00	180000.00	38713.86	2.21	1393.37	400.00	0.00	100.00	0.00	400.00
162	11	6	29	1	59.00	180000.00	38038.33	2.20	1392.64	400.00	0.00	100.00	0.00	400.00
163	12	6	29	2	50.00	180000.00	37344.93	2.20	1391.90	400.00	0.00	100.00	0.00	400.00
164	13	6	29	3	50.00	180000.00	36651.52	2.19	1391.16	400.00	0.00	100.00	0.00	400.00
165	14	6	29	4	54.00	180000.00	35966.04	2.19	1390.43	400.00	0.00	100.00	0.00	400.00
166	15	6	29	5	53.00	180000.00	35278.57	2.19	1389.60	400.00	0.00	100.00	0.00	400.00
167	16	6	29	6	55.00	180000.00	34595.05	2.18	1388.64	400.00	0.00	100.00	0.00	400.00
168	17	6	29	7	55.00	180000.00	33911.52	2.18	1387.67	400.00	0.00	100.00	0.00	400.00
169	18	6	29	1	58.00	180000.00	33233.94	2.18	1386.71	400.00	0.00	100.00	0.00	400.00
170	19	6	29	2	50.00	180000.00	32540.47	2.17	1385.73	400.00	0.00	100.00	0.00	400.00
171	20	6	29	3	45.00	180000.00	31837.08	2.17	1384.74	400.00	0.00	100.00	0.00	400.00
172	21	6	29	4	46.00	180000.00	31135.66	2.16	1383.75	400.00	0.00	100.00	0.00	400.00
173	22	6	29	5	47.00	180000.00	30436.21	2.16	1382.76	400.00	0.00	100.00	0.00	400.00
174	23	6	29	6	43.00	180000.00	29728.82	2.16	1381.76	400.00	0.00	100.00	0.00	400.00
175	24	6	29	7	43.00	180000.00	29021.41	2.15	1380.76	400.00	0.00	100.00	0.00	400.00
176	25	6	29	1	43.00	180000.00	28314.00	2.15	1379.76	400.00	0.00	100.00	0.00	400.00
177	26	6	29	2	43.00	180000.00	27606.58	2.14	1378.76	400.00	0.00	100.00	0.00	400.00
178	27	6	29	3	43.00	180000.00	26899.14	2.14	1377.76	400.00	0.00	100.00	0.00	400.00
179	28	6	29	4	43.00	180000.00	26191.70	2.14	1376.76	400.00	0.00	100.00	0.00	400.00
180	29	6	29	5	43.00	180000.00	25484.24	2.13	1375.76	400.00	0.00	100.00	0.00	400.00
181	30	6	29	6	43.00	180000.00	24776.77	2.13	1374.76	400.00	0.00	100.00	0.00	400.00
182	1	7	29	7	43.00	180000.00	24069.61	2.12	1373.76	400.00	0.00	100.00	0.00	400.00
183	2	7	29	1	40.00	180000.00	23356.49	2.12	1372.75	400.00	0.00	100.00	0.00	400.00
184	3	7	29	2	40.00	180000.00	22643.34	2.12	1371.74	400.00	0.00	100.00	0.00	400.00
185	4	7	29	3	40.00	180000.00	21930.18	2.11	1370.74	400.00	0.00	100.00	0.00	400.00
186	5	7	29	4	40.00	180000.00	21217.01	2.11	1369.59	400.00	0.00	100.00	0.00	400.00

RUN11 (CONTINUED)

LOC NO=					4.	4.	4.	4.	4.	213.	213.	213.	213.	213.
PER	DY	MO	YR	DW	RES 4 INFLOW	RES 4 TOP CON.	RES 4 EOP STOR	RES 4 LEVEL	RES 4 EOP ELEV	C P 213 MIN DESI	C P 213 DEQ-SHOR	C P 213 MIN REQU	C P 213 REQ-SHOR	C P 213 FLOW REG
187	6	7	29	5	38.00	180000.00	20499.84	2.10	1368.06	400.00	0.00	100.00	0.00	400.00
188	7	7	29	6	38.00	180000.00	19782.64	2.10	1366.53	400.00	0.00	100.00	0.00	400.00
189	8	7	29	7	38.00	180000.00	19065.42	2.10	1365.01	400.00	0.00	100.00	0.00	400.00
190	9	7	29	1	37.00	180000.00	18346.19	2.09	1363.47	400.00	0.00	100.00	0.00	400.00
191	10	7	29	2	30.00	180000.00	17613.05	2.09	1361.91	400.00	0.00	100.00	0.00	400.00
192	11	7	29	3	30.00	180000.00	16879.87	2.08	1360.35	400.00	0.00	100.00	0.00	400.00
193	12	7	29	4	29.00	180000.00	16144.69	2.08	1358.79	400.00	0.00	100.00	0.00	400.00
194	13	7	29	5	30.00	180000.00	15411.46	2.08	1357.22	400.00	0.00	100.00	0.00	400.00
195	14	7	29	6	34.00	180000.00	14686.14	2.07	1355.68	400.00	0.00	100.00	0.00	400.00
196	15	7	29	7	34.00	180000.00	13960.79	2.07	1354.13	400.00	0.00	100.00	0.00	400.00
197	16	7	29	1	33.00	180000.00	13233.43	2.06	1352.58	400.00	0.00	100.00	0.00	400.00
198	17	7	29	2	35.00	180000.00	12510.01	2.06	1351.04	400.00	0.00	100.00	0.00	400.00
199	18	7	29	3	36.00	180000.00	11788.55	2.06	1349.13	400.00	0.00	100.00	0.00	400.00
200	19	7	29	4	35.00	180000.00	11065.07	2.05	1346.40	400.00	0.00	100.00	0.00	400.00
201	20	7	29	5	34.00	180000.00	10339.59	2.05	1343.67	400.00	0.00	100.00	0.00	400.00
202	21	7	29	6	35.00	180000.00	9616.06	2.04	1340.95	400.00	0.00	100.00	0.00	400.00
203	22	7	29	7	37.00	180000.00	8896.47	2.04	1338.24	400.00	0.00	100.00	0.00	400.00
204	23	7	29	1	37.00	180000.00	8176.86	2.03	1335.53	400.00	0.00	100.00	0.00	400.00
205	24	7	29	2	38.00	180000.00	7459.20	2.03	1332.83	400.00	0.00	100.00	0.00	400.00
206	25	7	29	3	39.00	180000.00	6743.49	2.03	1330.13	400.00	0.00	100.00	0.00	400.00
207	26	7	29	4	39.00	180000.00	6027.77	2.02	1327.44	400.00	0.00	100.00	0.00	400.00
208	27	7	29	5	39.00	180000.00	5312.01	2.02	1324.50	400.00	0.00	100.00	0.00	400.00
209	28	7	29	6	39.00	180000.00	4596.22	2.01	1319.20	400.00	0.00	100.00	0.00	400.00
210	29	7	29	7	38.00	180000.00	3878.42	2.01	1313.89	400.00	0.00	100.00	0.00	400.00
211	30	7	29	1	45.00	180000.00	3174.47	2.01	1308.69	400.00	0.00	100.00	0.00	400.00
212	31	7	29	2	45.00	180000.00	2470.49	2.00	1303.48	400.00	0.00	100.00	0.00	400.00
213	1	8	29	3	48.00	180000.00	2000.00	2.00	1300.00	400.00	114.75	100.00	0.00	285.25
214	2	8	29	4	49.00	180000.00	1898.93	1.94	1298.58	400.00	300.00	100.00	0.00	100.00
215	3	8	29	5	49.00	180000.00	1797.85	1.88	1297.15	400.00	300.00	100.00	0.00	100.00
216	4	8	29	6	50.00	180000.00	1698.76	1.82	1295.76	400.00	300.00	100.00	0.00	100.00
217	5	8	29	7	50.00	180000.00	1599.66	1.76	1294.36	400.00	300.00	100.00	0.00	100.00
218	6	8	29	1	51.00	180000.00	1502.55	1.71	1292.99	400.00	300.00	100.00	0.00	100.00
219	7	8	29	2	52.00	180000.00	1407.41	1.65	1291.65	400.00	300.00	100.00	0.00	100.00
220	8	8	29	3	52.00	180000.00	1312.27	1.60	1290.31	400.00	300.00	100.00	0.00	100.00
221	9	8	29	4	88.00	180000.00	1288.54	1.58	1289.98	400.00	300.00	100.00	0.00	100.00
222	10	8	29	5	88.00	180000.00	1264.80	1.57	1289.65	400.00	300.00	100.00	0.00	100.00
223	11	8	29	6	89.00	180000.00	1243.05	1.55	1289.34	400.00	300.00	100.00	0.00	100.00
224	12	8	29	7	89.00	180000.00	1221.29	1.54	1289.03	400.00	300.00	100.00	0.00	100.00
225	13	8	29	1	90.00	180000.00	1201.52	1.53	1288.75	400.00	300.00	100.00	0.00	100.00
226	14	8	29	2	92.00	180000.00	1185.72	1.52	1288.53	400.00	300.00	100.00	0.00	100.00
227	15	8	29	3	91.00	180000.00	1167.93	1.51	1288.28	400.00	300.00	100.00	0.00	100.00
228	16	8	29	4	92.00	180000.00	1152.12	1.50	1288.06	400.00	300.00	100.00	0.00	100.00
229	17	8	29	5	93.00	180000.00	1138.30	1.49	1287.86	400.00	300.00	100.00	0.00	100.00
230	18	8	29	6	95.00	180000.00	1128.44	1.49	1287.72	400.00	300.00	100.00	0.00	100.00
231	19	8	29	7	98.00	180000.00	1124.54	1.49	1287.67	400.00	300.00	100.00	0.00	100.00
232	20	8	29	1	90.00	180000.00	1104.76	1.47	1287.39	400.00	300.00	100.00	0.00	100.00
233	21	8	29	2	96.00	180000.00	1096.89	1.47	1287.28	400.00	300.00	100.00	0.00	100.00
234	22	8	29	3	99.00	180000.00	1094.97	1.47	1287.25	400.00	300.00	100.00	0.00	100.00
235	23	8	29	4	91.00	180000.00	1077.18	1.46	1287.00	400.00	300.00	100.00	0.00	100.00

RUN11 (CONTINUED)

LOC NO=					4.	4.	4.	4.	4.	213.	213.	213.	213.	213.
PER	DY	MO	YR	DW	RES 4 INFLOW	RES 4 TOP CON.	RES 4 EOP STOR	RES 4 LEVEL	RES 4 EOP ELEV	C P 213 MIN DESI	C P 213 DEQ-SHOR	C P 213 MIN REQU	C P 213 REQ-SHOR	C P 213 FLOW REG
236	24	8	29	5	98.00	180000.00	1073.27	1.45	1286.95	400.00	300.00	100.00	0.00	100.00
237	25	8	29	6	100.00	180000.00	1073.33	1.45	1286.95	400.00	300.00	100.00	0.00	100.00
238	26	8	29	7	101.00	180000.00	1075.37	1.46	1286.98	400.00	300.00	100.00	0.00	100.00
239	27	8	29	1	105.00	180000.00	1085.35	1.46	1287.12	400.00	300.00	100.00	0.00	100.00
240	28	8	29	2	107.00	180000.00	1099.29	1.47	1287.31	400.00	300.00	100.00	0.00	100.00
241	29	8	29	3	128.00	177227.60	1154.89	1.50	1288.10	400.00	300.00	100.00	0.00	100.00
242	30	8	29	4	135.00	174455.20	1224.38	1.54	1289.08	400.00	300.00	100.00	0.00	100.00
243	31	8	29	5	140.00	171682.80	1303.79	1.59	1290.19	400.00	300.00	100.00	0.00	100.00
244	1	9	29	6	144.00	168910.40	1391.06	1.64	1291.42	400.00	300.00	100.00	0.00	100.00
245	2	9	29	7	147.00	166138.00	1484.28	1.70	1292.74	400.00	300.00	100.00	0.00	100.00
246	3	9	29	1	150.00	163365.60	1583.45	1.75	1294.13	400.00	300.00	100.00	0.00	100.00
247	4	9	29	2	151.00	160593.20	1684.60	1.81	1295.56	400.00	300.00	100.00	0.00	100.00
248	5	9	29	3	157.00	157820.80	1797.66	1.88	1297.15	400.00	300.00	100.00	0.00	100.00
249	6	9	29	4	159.00	155048.40	1914.68	1.95	1298.80	400.00	300.00	100.00	0.00	100.00
250	7	9	29	5	161.00	152276.00	2000.00	2.00	1300.00	400.00	282.02	100.00	0.00	117.98
251	8	9	29	6	150.00	149503.60	2000.00	2.00	1300.00	400.00	250.00	100.00	0.00	150.00
252	9	9	29	7	150.00	146731.20	2000.00	2.00	1300.00	400.00	250.00	100.00	0.00	150.00
253	10	9	29	1	151.00	143958.80	2000.00	2.00	1300.00	400.00	249.00	100.00	0.00	151.00
254	11	9	29	2	153.00	141186.40	2000.00	2.00	1300.00	400.00	247.00	100.00	0.00	153.00
255	12	9	29	3	155.00	138414.00	2000.00	2.00	1300.00	400.00	245.00	100.00	0.00	155.00
256	13	9	29	4	157.00	135641.60	2000.00	2.00	1300.00	400.00	243.00	100.00	0.00	157.00
257	14	9	29	5	159.00	132869.20	2000.00	2.00	1300.00	400.00	241.00	100.00	0.00	159.00
258	15	9	29	6	161.00	130096.80	2000.00	2.00	1300.00	400.00	239.00	100.00	0.00	161.00
259	16	9	29	7	163.00	127324.40	2000.00	2.00	1300.00	400.00	237.00	100.00	0.00	163.00
260	17	9	29	1	165.00	124552.00	2000.00	2.00	1300.00	400.00	235.00	100.00	0.00	165.00
261	18	9	29	2	167.00	121779.60	2000.00	2.00	1300.00	400.00	233.00	100.00	0.00	167.00
262	19	9	29	3	169.00	119007.20	2000.00	2.00	1300.00	400.00	231.00	100.00	0.00	169.00
263	20	9	29	4	171.00	116234.80	2000.00	2.00	1300.00	400.00	229.00	100.00	0.00	171.00
264	21	9	29	5	173.00	113462.40	2000.00	2.00	1300.00	400.00	227.00	100.00	0.00	173.00
265	22	9	29	6	175.00	110690.00	2000.00	2.00	1300.00	400.00	225.00	100.00	0.00	175.00
266	23	9	29	7	177.00	110690.00	2000.00	2.00	1300.00	400.00	223.00	100.00	0.00	177.00
267	24	9	29	1	179.00	110690.00	2000.00	2.00	1300.00	400.00	221.00	100.00	0.00	179.00
268	25	9	29	2	180.00	110690.00	2000.00	2.00	1300.00	400.00	220.00	100.00	0.00	180.00
269	26	9	29	3	182.00	110690.00	2000.00	2.00	1300.00	400.00	218.00	100.00	0.00	182.00
270	27	9	29	4	184.00	110690.00	2000.00	2.00	1300.00	400.00	216.00	100.00	0.00	184.00
271	28	9	29	5	186.00	110690.00	2000.00	2.00	1300.00	400.00	214.00	100.00	0.00	186.00
272	29	9	29	6	188.00	110690.00	2000.00	2.00	1300.00	400.00	212.00	100.00	0.00	188.00
273	30	9	29	7	190.00	110690.00	2000.00	2.00	1300.00	400.00	210.00	100.00	0.00	190.00
274	1	10	29	1	192.00	110690.00	2000.00	2.00	1300.00	400.00	208.06	100.00	0.00	191.94
275	2	10	29	2	194.00	110690.00	2000.00	2.00	1300.00	400.00	206.06	100.00	0.00	193.94
276	3	10	29	3	196.00	110690.00	2000.00	2.00	1300.00	400.00	204.06	100.00	0.00	195.94
277	4	10	29	4	198.00	110690.00	2000.00	2.00	1300.00	400.00	202.06	100.00	0.00	197.94
278	5	10	29	5	200.00	110690.00	2000.00	2.00	1300.00	400.00	200.06	100.00	0.00	199.94
279	6	10	29	6	202.00	110690.00	2000.00	2.00	1300.00	400.00	198.06	100.00	0.00	201.94
280	7	10	29	7	204.00	110690.00	2000.00	2.00	1300.00	400.00	196.06	100.00	0.00	203.94
281	8	10	29	1	206.00	110690.00	2000.00	2.00	1300.00	400.00	194.06	100.00	0.00	205.94
282	9	10	29	2	208.00	110690.00	2000.00	2.00	1300.00	400.00	192.06	100.00	0.00	207.94
283	10	10	29	3	221.00	110690.00	2000.00	2.00	1300.00	400.00	179.06	100.00	0.00	220.94

RUN11 (CONTINUED)

LOC NO=					4.	4.	4.	4.	4.	213.	213.	213.	213.	213.
PER	DY	MO	YR	DW	RES 4 INFLOW	RES 4 TOP CON.	RES 4 EOP STOR	RES 4 LEVEL	RES 4 EOP ELEV	C P 213 MIN DESI	C P 213 DEQ-SHOR	C P 213 MIN REQU	C P 213 REQ-SHOR	C P 213 FLOW REG
284	11	10	29	4	234.00	110690.00	2000.00	2.00	1300.00	400.00	166.06	100.00	0.00	233.94
285	12	10	29	5	247.00	110690.00	2000.00	2.00	1300.00	400.00	153.06	100.00	0.00	246.94
286	13	10	29	6	261.00	110690.00	2000.00	2.00	1300.00	400.00	139.06	100.00	0.00	260.94
287	14	10	29	7	274.00	110690.00	2000.00	2.00	1300.00	400.00	126.06	100.00	0.00	273.94
288	15	10	29	1	287.00	110690.00	2000.00	2.00	1300.00	400.00	113.06	100.00	0.00	286.94
289	16	10	29	2	301.00	110690.00	2000.00	2.00	1300.00	400.00	99.06	100.00	0.00	300.94
290	17	10	29	3	314.00	110690.00	2000.00	2.00	1300.00	400.00	86.06	100.00	0.00	313.94
291	18	10	29	4	327.00	110690.00	2000.00	2.00	1300.00	400.00	73.06	100.00	0.00	326.94
292	19	10	29	5	341.00	110690.00	2000.00	2.00	1300.00	400.00	59.06	100.00	0.00	340.94
293	20	10	29	6	354.00	110690.00	2000.00	2.00	1300.00	400.00	46.06	100.00	0.00	353.94
294	21	10	29	7	367.00	110690.00	2000.00	2.00	1300.00	400.00	33.06	100.00	0.00	366.94
295	22	10	29	1	381.00	110690.00	2000.00	2.00	1300.00	400.00	19.06	100.00	0.00	380.94
296	23	10	29	2	394.00	110690.00	2000.00	2.00	1300.00	400.00	6.06	100.00	0.00	393.94
297	24	10	29	3	408.00	110690.00	2015.76	2.00	1300.12	400.00	0.00	100.00	0.00	400.00
298	25	10	29	4	421.00	110690.00	2057.30	2.00	1300.42	400.00	0.00	100.00	0.00	400.00
299	26	10	29	5	434.00	110690.00	2124.62	2.00	1300.92	400.00	0.00	100.00	0.00	400.00
300	27	10	29	6	447.00	110690.00	2217.72	2.00	1301.61	400.00	0.00	100.00	0.00	400.00
301	28	10	29	7	461.00	110690.00	2338.59	2.00	1302.50	400.00	0.00	100.00	0.00	400.00
302	29	10	29	1	474.00	110690.00	2485.24	2.00	1303.59	400.00	0.00	100.00	0.00	400.00
303	30	10	29	2	487.00	110690.00	2657.67	2.01	1304.86	400.00	0.00	100.00	0.00	400.00
304	31	10	29	3	501.00	110690.00	2857.86	2.01	1306.35	400.00	0.00	100.00	0.00	400.00
305	1	11	29	4	514.00	110690.00	3084.78	2.01	1308.02	400.00	0.00	100.00	0.00	400.00
306	2	11	29	5	527.00	110690.00	3337.54	2.01	1309.89	400.00	0.00	100.00	0.00	400.00
307	3	11	29	6	541.00	110690.00	3618.14	2.01	1311.97	400.00	0.00	100.00	0.00	400.00
308	4	11	29	7	554.00	110690.00	3924.58	2.02	1314.24	400.00	0.00	100.00	0.00	400.00
309	5	11	29	1	567.00	110690.00	4256.88	2.02	1316.69	400.00	0.00	100.00	0.00	400.00
310	6	11	29	2	581.00	110690.00	4617.03	2.02	1319.36	400.00	0.00	100.00	0.00	400.00
311	7	11	29	3	594.00	110690.00	5003.05	2.03	1322.21	400.00	0.00	100.00	0.00	400.00
312	8	11	29	4	608.00	110690.00	5416.93	2.03	1325.14	400.00	0.00	100.00	0.00	400.00
313	9	11	29	5	608.00	110690.00	5830.90	2.04	1326.70	400.00	0.00	100.00	0.00	400.00
314	10	11	29	6	608.00	110690.00	6244.93	2.04	1328.26	400.00	0.00	100.00	0.00	400.00
315	11	11	29	7	608.00	110690.00	6659.05	2.04	1329.82	400.00	0.00	100.00	0.00	400.00
316	12	11	29	1	608.00	110690.00	7073.23	2.05	1331.38	400.00	0.00	100.00	0.00	400.00
317	13	11	29	2	608.00	110690.00	7487.50	2.05	1332.93	400.00	0.00	100.00	0.00	400.00
318	14	11	29	3	609.00	110690.00	7903.82	2.05	1334.50	400.00	0.00	100.00	0.00	400.00
319	15	11	29	4	609.00	110690.00	8320.22	2.06	1336.07	400.00	0.00	100.00	0.00	400.00
320	16	11	29	5	609.00	110690.00	8736.69	2.06	1337.64	400.00	0.00	100.00	0.00	400.00
321	17	11	29	6	609.00	110690.00	9153.24	2.07	1339.21	400.00	0.00	100.00	0.00	400.00
322	18	11	29	7	609.00	110690.00	9569.86	2.07	1340.78	400.00	0.00	100.00	0.00	400.00
323	19	11	29	1	610.00	110690.00	9988.55	2.07	1342.35	400.00	0.00	100.00	0.00	400.00
324	20	11	29	2	610.00	110690.00	10407.31	2.08	1343.93	400.00	0.00	100.00	0.00	400.00
325	21	11	29	3	610.00	110690.00	10826.14	2.08	1345.51	400.00	0.00	100.00	0.00	400.00
326	22	11	29	4	610.00	110690.00	11245.06	2.09	1347.08	400.00	0.00	100.00	0.00	400.00
327	23	11	29	5	611.00	110690.00	11666.03	2.09	1348.67	400.00	0.00	100.00	0.00	400.00
328	24	11	29	6	611.00	110690.00	12087.08	2.09	1350.14	400.00	0.00	100.00	0.00	400.00
329	25	11	29	7	611.00	110690.00	12508.20	2.10	1351.04	400.00	0.00	100.00	0.00	400.00
330	26	11	29	1	611.00	110690.00	12929.41	2.10	1351.94	400.00	0.00	100.00	0.00	400.00
331	27	11	29	2	611.00	110690.00	13350.69	2.10	1352.83	400.00	0.00	100.00	0.00	400.00

RUN11 (CONTINUED)

LOC NO=					4.	4.	4.	4.	4.	213.	213.	213.	213.	213.
PER	DY	MO	YR	DW	RES 4 INFLOW	RES 4 TOP CON.	RES 4 EOP STOR	RES 4 LEVEL	RES 4 EOP ELEV	C P 213 MIN DESI	C P 213 DEQ-SHOR	C P 213 MIN REQU	C P 213 REQ-SHOR	C P 213 FLOW REG
332	28	11	29	3	611.00	110690.00	13772.04	2.11	1353.73	400.00	0.00	100.00	0.00	400.00
333	29	11	29	4	612.00	110690.00	14195.46	2.11	1354.63	400.00	0.00	100.00	0.00	400.00
334	30	11	29	5	612.00	110690.00	14618.96	2.12	1355.54	400.00	0.00	100.00	0.00	400.00
335	1	12	29	6	612.00	110690.00	15042.25	2.12	1356.44	400.00	0.00	100.00	0.00	400.00
336	2	12	29	7	612.00	110690.00	15465.60	2.12	1357.34	400.00	0.00	100.00	0.00	400.00
337	3	12	29	1	612.00	110690.00	15889.03	2.13	1358.24	400.00	0.00	100.00	0.00	400.00
338	4	12	29	2	613.00	110690.00	16314.50	2.13	1359.15	400.00	0.00	100.00	0.00	400.00
339	5	12	29	3	613.00	110690.00	16740.05	2.14	1360.05	400.00	0.00	100.00	0.00	400.00
340	6	12	29	4	613.00	110690.00	17165.68	2.14	1360.96	400.00	0.00	100.00	0.00	400.00
341	7	12	29	5	613.00	110690.00	17591.37	2.14	1361.87	400.00	0.00	100.00	0.00	400.00
342	8	12	29	6	614.00	110690.00	18019.12	2.15	1362.78	400.00	0.00	100.00	0.00	400.00
343	9	12	29	7	611.00	110690.00	18440.98	2.15	1363.68	400.00	0.00	100.00	0.00	400.00
344	10	12	29	1	609.00	110690.00	18858.95	2.16	1364.57	400.00	0.00	100.00	0.00	400.00
345	11	12	29	2	607.00	110690.00	19273.03	2.16	1365.45	400.00	0.00	100.00	0.00	400.00
346	12	12	29	3	605.00	110690.00	19683.20	2.16	1366.32	400.00	0.00	100.00	0.00	400.00
347	13	12	29	4	603.00	110690.00	20089.48	2.17	1367.19	400.00	0.00	100.00	0.00	400.00
348	14	12	29	5	601.00	110690.00	20491.85	2.17	1368.04	400.00	0.00	100.00	0.00	400.00
349	15	12	29	6	599.00	110690.00	20890.33	2.17	1368.89	400.00	0.00	100.00	0.00	400.00
350	16	12	29	7	597.00	110690.00	21284.90	2.18	1369.73	400.00	0.00	100.00	0.00	400.00
351	17	12	29	1	595.00	110690.00	21675.57	2.18	1370.38	400.00	0.00	100.00	0.00	400.00
352	18	12	29	2	593.00	110690.00	22062.31	2.18	1370.92	400.00	0.00	100.00	0.00	400.00
353	19	12	29	3	591.00	110690.00	22445.13	2.19	1371.46	400.00	0.00	100.00	0.00	400.00
354	20	12	29	4	589.00	110690.00	22824.01	2.19	1372.00	400.00	0.00	100.00	0.00	400.00
355	21	12	29	5	587.00	110690.00	23198.96	2.20	1372.53	400.00	0.00	100.00	0.00	400.00
356	22	12	29	6	585.00	110690.00	23569.99	2.20	1373.05	400.00	0.00	100.00	0.00	400.00
357	23	12	29	7	583.00	110690.00	23937.08	2.20	1373.57	400.00	0.00	100.00	0.00	400.00
358	24	12	29	1	581.00	110690.00	24300.24	2.21	1374.09	400.00	0.00	100.00	0.00	400.00
359	25	12	29	2	579.00	110690.00	24659.47	2.21	1374.59	400.00	0.00	100.00	0.00	400.00
360	26	12	29	3	577.00	110690.00	25014.77	2.21	1375.10	400.00	0.00	100.00	0.00	400.00
361	27	12	29	4	575.00	110690.00	25366.14	2.21	1375.59	400.00	0.00	100.00	0.00	400.00
362	28	12	29	5	573.00	110690.00	25713.58	2.22	1376.08	400.00	0.00	100.00	0.00	400.00
363	29	12	29	6	571.00	110690.00	26057.08	2.22	1376.57	400.00	0.00	100.00	0.00	400.00
364	30	12	29	7	569.00	110690.00	26396.65	2.22	1377.05	400.00	0.00	100.00	0.00	400.00
365	31	12	29	1	567.00	110690.00	26732.29	2.23	1377.52	400.00	0.00	100.00	0.00	400.00
				SUM =	108465.00	48511120.00	14727515.83	836.54	501144.58	151250.00	19610.11	36500.00	0.00	131639.99
				MAX =	1104.00	180000.00	101053.49	2.91	1444.04	450.00	300.00	100.00	0.00	450.00
				MIN =	29.00	110690.00	1073.27	1.45	1286.95	400.00	0.00	100.00	0.00	100.00
				PMAX=	1.00	151.00	42.00	42.00	42.00	3.00	214.00	1.00	1.00	3.00
				AVG =	297.16	132907.18	40349.36	2.29	1373.00	414.38	53.73	100.00	0.00	360.66
				PMIN=	193.00	1.00	236.00	236.00	236.00	1.00	1.00	1.00	1.00	214.00

R#

RUN12 - SUMMARY OUTPUT

SUMMARY BY PERIOD FLOOD= 1

LOC NO=					4.	4.	4.	4.	4.	4.	4.	4.	213.	213.
CODE=					4.110	4.220	4.130	4.120	4.100	4.300	4.030	4.310	213.030	213.040
PER	DY	MO	YR	DW	RES NO.4 EOP STOR	RES NO.4 EOP ELEV	RES NO.4 LEVEL	RES NO.4 CASE	RES NO.4 OUTFLOW	RES NO.4 DIV REQU	RES NO.4 DIVERSIO	RES NO.4 DIV SHOR	C.P. 213 DIVERSIO	C.P. 213 FLOW REG
1	1	10	27	1	71500.00	1424.31	3.00	0.03	1071.09	150.00	150.00	0.00	-30.00	1101.09
2	1	11	27	1	71500.00	1424.31	3.00	0.03	1122.75	150.00	150.00	0.00	-30.00	1152.75
3	1	12	27	1	70340.02	1423.34	2.98	213.00	370.00	150.00	150.00	0.00	-30.00	400.00
4	1	1	28	1	71500.00	1424.31	3.00	0.03	566.90	150.00	150.00	0.00	-30.00	596.90
5	1	2	28	1	71500.00	1424.31	3.00	0.03	499.88	150.00	150.00	0.00	-30.00	529.88
6	1	3	28	1	71500.00	1424.31	3.00	0.03	1238.55	150.00	150.00	0.00	-30.00	1268.55
7	1	4	28	1	71500.00	1424.31	3.00	0.03	853.32	150.00	150.00	0.00	-30.00	883.32
8	1	5	28	1	71500.00	1424.31	3.00	0.03	1215.91	150.00	150.00	0.00	-30.00	1245.91
9	1	6	28	1	71500.00	1424.31	3.00	0.03	1158.65	150.00	150.00	0.00	-30.00	1188.65
10	1	7	28	1	61716.70	1416.17	2.86	213.00	370.00	150.00	150.00	0.00	-30.00	400.00
11	1	8	28	1	47117.16	1402.33	2.65	213.00	370.00	150.00	150.00	0.00	-30.00	400.00
12	1	9	28	1	26646.08	1377.40	2.35	213.00	370.00	150.00	150.00	0.00	-30.00	400.00
13	1	10	28	1	6519.19	1329.29	2.07	213.00	370.00	150.00	150.00	0.00	-30.00	400.00
14	1	11	28	1	2000.00	1300.00	2.00	213.00	187.50	150.00	150.00	0.00	-30.00	217.50
15	1	12	28	1	2000.00	1300.00	2.00	213.00	331.26	150.00	150.00	0.00	-30.00	361.26
16	1	1	29	1	2000.00	1300.00	2.00	213.00	281.17	150.00	150.00	0.00	-30.00	311.17
17	1	2	29	1	35945.62	1390.41	2.49	213.00	370.00	150.00	150.00	0.00	-30.00	400.00
18	1	3	29	1	71500.00	1424.31	3.00	0.03	504.61	150.00	150.00	0.00	-30.00	534.61
19	1	4	29	1	71500.00	1424.31	3.00	0.03	664.32	150.00	150.00	0.00	-30.00	694.32
20	1	5	29	1	56978.56	1412.23	2.79	213.00	370.00	150.00	150.00	0.00	-30.00	400.00
21	1	6	29	1	35763.43	1390.22	2.49	213.00	370.00	150.00	150.00	0.00	-30.00	400.00
22	1	7	29	1	13041.13	1352.17	2.16	213.00	370.00	150.00	150.00	0.00	-30.00	400.00
23	1	8	29	1	2000.00	1300.00	2.00	213.00	237.69	150.00	150.00	0.00	-30.00	267.69
24	1	9	29	1	7236.17	1331.99	2.08	213.00	370.00	150.00	150.00	0.00	-30.00	400.00
25	1	10	29	1	13002.97	1352.09	2.16	213.00	370.00	150.00	150.00	0.00	-30.00	400.00
26	1	11	29	1	15054.45	1356.46	2.19	213.00	370.00	150.00	150.00	0.00	-30.00	400.00
27	1	12	29	1	15385.84	1357.17	2.19	213.00	370.00	150.00	150.00	0.00	-30.00	400.00
28	1	1	30	1	12671.96	1351.39	2.15	213.00	370.00	150.00	150.00	0.00	-30.00	400.00
29	1	2	30	1	26069.80	1376.59	2.35	213.00	370.00	150.00	150.00	0.00	-30.00	400.00
30	1	3	30	1	49021.67	1404.37	2.68	213.00	370.00	150.00	150.00	0.00	-30.00	400.00
31	1	4	30	1	47487.74	1402.73	2.65	213.00	370.00	150.00	150.00	0.00	-30.00	400.00
32	1	5	30	1	50911.84	1406.38	2.70	213.00	370.00	150.00	150.00	0.00	-30.00	400.00
33	1	6	30	1	38859.91	1393.52	2.53	213.00	370.00	150.00	150.00	0.00	-30.00	400.00
34	1	7	30	1	13371.79	1352.88	2.16	213.00	370.00	150.00	150.00	0.00	-30.00	400.00
35	1	8	30	1	2000.00	1300.00	2.00	213.00	129.07	150.00	150.00	0.00	-30.00	159.07
36	1	9	30	1	300.00	1270.23	1.00	0.07	28.57	150.00	75.00	75.00	-15.00	43.57
37	1	10	30	1	300.00	1270.23	1.00	0.07	27.67	150.00	48.31	101.69	-9.66	37.33
38	1	11	30	1	300.00	1270.23	1.00	0.07	28.46	150.00	73.64	76.36	-14.73	43.19
39	1	12	30	1	300.00	1270.23	1.00	0.07	27.55	150.00	96.53	53.47	-19.31	46.86
40	1	1	31	1	300.00	1270.23	1.00	0.07	27.58	150.00	136.47	13.53	-27.29	54.88
41	1	2	31	1	8595.19	1337.11	2.09	213.00	370.00	150.00	150.00	0.00	-30.00	400.00
42	1	3	31	1	30699.85	1383.13	2.41	213.00	370.00	150.00	150.00	0.00	-30.00	400.00

RUN12 (CONTINUED)

LOC NO=					4.	4.	4.	4.	4.	4.	4.	4.	213.	213.
PER	DY	MO	YR	DW	RES NO.4 EOP STOR	RES NO.4 EOP ELEV	RES NO.4 LEVEL	RES NO.4 CASE	RES NO.4 OUTFLOW	RES NO.4 DIV REQU	RES NO.4 DIVERSIO	RES NO.4 DIV SHOR	C.P. 213 DIVERSIO	C.P. 213 FLOW REG
43	1	4	31	1	47767.97	1403.03	2.66	213.00	370.00	150.00	150.00	0.00	-30.00	400.00
44	1	5	31	1	38399.07	1393.03	2.52	213.00	370.00	150.00	150.00	0.00	-30.00	400.00
45	1	6	31	1	32472.51	1385.64	2.44	213.00	370.00	150.00	150.00	0.00	-30.00	400.00
46	1	7	31	1	13192.50	1352.50	2.16	213.00	370.00	150.00	150.00	0.00	-30.00	400.00
47	1	8	31	1	2000.00	1300.00	2.00	213.00	177.16	150.00	150.00	0.00	-30.00	207.16
48	1	9	31	1	300.00	1270.23	1.00	0.07	28.57	150.00	74.00	76.00	-14.80	43.37
49	1	10	31	1	300.00	1270.23	1.00	0.07	27.67	150.00	52.31	97.69	-10.46	38.13
50	1	11	31	1	300.00	1270.23	1.00	0.07	28.46	150.00	104.64	45.36	-20.93	49.39
51	1	12	31	1	2000.00	1300.00	2.00	213.00	297.53	150.00	150.00	0.00	-30.00	327.53
52	1	1	32	1	2000.00	1300.00	2.00	213.00	283.17	150.00	150.00	0.00	-30.00	313.17
53	1	2	32	1	2586.65	1304.34	2.01	213.00	370.00	150.00	150.00	0.00	-30.00	400.00
54	1	3	32	1	38714.97	1393.37	2.53	213.00	370.00	150.00	150.00	0.00	-30.00	400.00
55	1	4	32	1	38048.43	1392.66	2.52	213.00	370.00	150.00	150.00	0.00	-30.00	400.00
56	1	5	32	1	37653.95	1392.23	2.51	213.00	370.00	150.00	150.00	0.00	-30.00	400.00
57	1	6	32	1	23156.40	1372.47	2.30	213.00	370.00	150.00	150.00	0.00	-30.00	400.00
58	1	7	32	1	2000.00	1300.00	2.00	213.00	324.34	150.00	150.00	0.00	-30.00	354.34
59	1	8	32	1	300.00	1270.23	1.00	0.07	27.63	150.00	77.04	72.96	-15.41	43.04
60	1	9	32	1	2000.00	1300.00	2.00	213.00	250.43	150.00	150.00	0.00	-30.00	280.43
61	1	10	32	1	44093.12	1399.11	2.61	213.00	370.00	150.00	150.00	0.00	-30.00	400.00
62	1	11	32	1	37142.05	1391.69	2.51	213.00	370.00	150.00	150.00	0.00	-30.00	400.00
63	1	12	32	1	32256.09	1385.33	2.44	213.00	370.00	150.00	150.00	0.00	-30.00	400.00
64	1	1	33	1	32724.90	1385.99	2.44	213.00	370.00	150.00	150.00	0.00	-30.00	400.00
65	1	2	33	1	54445.03	1410.12	2.75	213.00	370.00	150.00	150.00	0.00	-30.00	400.00
66	1	3	33	1	71500.00	1424.31	3.00	0.03	799.84	150.00	150.00	0.00	-30.00	829.84
67	1	4	33	1	71500.00	1424.31	3.00	0.03	509.32	150.00	150.00	0.00	-30.00	539.32
68	1	5	33	1	60976.58	1415.55	2.85	213.00	370.00	150.00	150.00	0.00	-30.00	400.00
69	1	6	33	1	42679.29	1397.60	2.59	213.00	370.00	150.00	150.00	0.00	-30.00	400.00
70	1	7	33	1	71500.00	1424.31	3.00	0.03	414.07	150.00	150.00	0.00	-30.00	444.07
71	1	8	33	1	71500.00	1424.31	3.00	0.03	1087.70	150.00	150.00	0.00	-30.00	1117.70
72	1	9	33	1	71500.00	1424.31	3.00	0.03	373.96	150.00	150.00	0.00	-30.00	403.96
73	1	10	33	1	63145.77	1417.36	2.88	213.00	370.00	150.00	150.00	0.00	-30.00	400.00
74	1	11	33	1	53508.72	1409.16	2.74	213.00	370.00	150.00	150.00	0.00	-30.00	400.00
75	1	12	33	1	65535.86	1419.35	2.91	213.00	370.00	150.00	150.00	0.00	-30.00	400.00
76	1	1	34	1	42245.85	1397.14	2.58	213.00	370.00	150.00	150.00	0.00	-30.00	400.00
77	1	2	34	1	38968.99	1393.64	2.53	213.00	370.00	150.00	150.00	0.00	-30.00	400.00
78	1	3	34	1	71500.00	1424.31	3.00	0.03	518.84	150.00	150.00	0.00	-30.00	548.84
79	1	4	34	1	71500.00	1424.31	3.00	0.03	404.32	150.00	150.00	0.00	-30.00	434.32
80	1	5	34	1	58454.75	1413.46	2.81	213.00	370.00	150.00	150.00	0.00	-30.00	400.00
81	1	6	34	1	39085.20	1393.76	2.53	213.00	370.00	150.00	150.00	0.00	-30.00	400.00
82	1	7	34	1	17656.84	1362.01	2.23	213.00	370.00	150.00	150.00	0.00	-30.00	400.00
83	1	8	34	1	17242.66	1361.12	2.22	213.00	370.00	150.00	150.00	0.00	-30.00	400.00
84	1	9	34	1	11529.49	1348.15	2.14	213.00	370.00	150.00	150.00	0.00	-30.00	400.00
85	1	10	34	1	17660.36	1362.01	2.23	213.00	370.00	150.00	150.00	0.00	-30.00	400.00
86	1	11	34	1	59438.08	1414.27	2.83	213.00	370.00	150.00	150.00	0.00	-30.00	400.00
87	1	12	34	1	62492.06	1416.82	2.87	213.00	370.00	150.00	150.00	0.00	-30.00	400.00
88	1	1	35	1	52428.87	1408.00	2.73	213.00	370.00	150.00	150.00	0.00	-30.00	400.00
89	1	2	35	1	71500.00	1424.31	3.00	0.03	553.27	150.00	150.00	0.00	-30.00	583.27
90	1	3	35	1	71500.00	1424.31	3.00	0.03	616.55	150.00	150.00	0.00	-30.00	646.55

RUN12 (CONTINUED)

LOC NO=					4.	4.	4.	4.	4.	4.	4.	4.	213.	213.
PER	DY	MO	YR	DW	RES NO.4 EOP STOR	RES NO.4 EOP ELEV	RES NO.4 LEVEL	RES NO.4 CASE	RES NO.4 OUTFLOW	RES NO.4 DIV REQU	RES NO.4 DIVERSIO	RES NO.4 DIV SHOR	C.P. 213 DIVERSIO	C.P. 213 FLOW REG
91	1	4	35	1	71500.00	1424.31	3.00	0.03	399.32	150.00	150.00	0.00	-30.00	429.32
92	1	5	35	1	63436.89	1417.60	2.88	213.00	370.00	150.00	150.00	0.00	-30.00	400.00
93	1	6	35	1	71500.00	1424.31	3.00	0.03	892.12	150.00	150.00	0.00	-30.00	922.12
94	1	7	35	1	55073.77	1410.64	2.76	213.00	370.00	150.00	150.00	0.00	-30.00	400.00
95	1	8	35	1	34628.73	1388.68	2.47	213.00	370.00	150.00	150.00	0.00	-30.00	400.00
96	1	9	35	1	14336.47	1354.93	2.18	213.00	370.00	150.00	150.00	0.00	-30.00	400.00
97	1	10	35	1	35952.55	1390.42	2.49	213.00	370.00	150.00	150.00	0.00	-30.00	400.00
98	1	11	35	1	46676.42	1401.86	2.64	213.00	370.00	150.00	150.00	0.00	-30.00	400.00
99	1	12	35	1	52589.26	1408.17	2.73	213.00	370.00	150.00	150.00	0.00	-30.00	400.00
100	1	1	36	1	41093.08	1395.91	2.56	213.00	370.00	150.00	150.00	0.00	-30.00	400.00
101	1	2	36	1	71500.00	1424.31	3.00	0.03	2417.77	150.00	150.00	0.00	-30.00	2447.77
102	1	3	36	1	71500.00	1424.31	3.00	0.03	673.55	150.00	150.00	0.00	-30.00	703.55
103	1	4	36	1	61865.21	1416.29	2.86	213.00	370.00	150.00	150.00	0.00	-30.00	400.00
104	1	5	36	1	46415.08	1401.58	2.64	213.00	370.00	150.00	150.00	0.00	-30.00	400.00
105	1	6	36	1	22993.73	1372.24	2.30	213.00	370.00	150.00	150.00	0.00	-30.00	400.00
106	1	7	36	1	2000.00	1300.00	2.00	213.00	256.69	150.00	150.00	0.00	-30.00	286.69
107	1	8	36	1	300.00	1270.23	1.00	0.07	27.63	150.00	43.04	106.96	-8.61	36.24
108	1	9	36	1	300.00	1270.23	1.00	0.07	28.57	150.00	111.43	38.57	-22.29	50.86
109	1	10	36	1	300.00	1270.23	1.00	0.07	27.67	150.00	144.31	5.69	-28.86	56.53
110	1	11	36	1	2694.63	1305.14	2.01	213.00	370.00	150.00	150.00	0.00	-30.00	400.00
111	1	12	36	1	32552.53	1385.75	2.44	213.00	370.00	150.00	150.00	0.00	-30.00	400.00
112	1	1	37	1	53515.82	1409.16	2.74	213.00	370.00	150.00	150.00	0.00	-30.00	400.00
113	1	2	37	1	62486.74	1416.81	2.87	213.00	370.00	150.00	150.00	0.00	-30.00	400.00
114	1	3	37	1	71500.00	1424.31	3.00	0.03	988.79	150.00	150.00	0.00	-30.00	1018.79
115	1	4	37	1	71500.00	1424.31	3.00	0.03	647.32	150.00	150.00	0.00	-30.00	677.32
116	1	5	37	1	61960.70	1416.37	2.86	213.00	370.00	150.00	150.00	0.00	-30.00	400.00
117	1	6	37	1	47115.76	1402.33	2.65	213.00	370.00	150.00	150.00	0.00	-30.00	400.00
118	1	7	37	1	34795.68	1388.92	2.47	213.00	370.00	150.00	150.00	0.00	-30.00	400.00
119	1	8	37	1	16616.80	1359.79	2.21	213.00	370.00	150.00	150.00	0.00	-30.00	400.00
120	1	9	37	1	30480.44	1382.82	2.41	213.00	370.00	150.00	150.00	0.00	-30.00	400.00
			SUM =		4488520.41	164966.24	289.42	17680.59	49924.78	18000.00	17236.73	763.27	-3447.35	53372.12
			MAX =		71500.00	1424.31	3.00	213.00	2417.77	150.00	150.00	106.96	-8.61	2447.77
			MIN =		300.00	1270.23	1.00	0.03	27.55	150.00	43.04	0.00	-30.00	36.24
			PMAX=		2.00	1.00	1.00	3.00	101.00	1.00	1.00	107.00	107.00	101.00
			AVG =		37404.34	1374.72	2.41	147.34	416.04	150.00	143.64	6.36	-28.73	444.77
			PMIN=		38.00	36.00	38.00	1.00	39.00	1.00	107.00	1.00	1.00	107.00

RUN13 - SUMMARY OUTPUT

SUMMARY BY PERIOD FLOOD= 1

LOC NO=					4.	4.	4.	4.	4.	213.	213.	213.	213.	213.
CODE=					4.110	4.220	4.130	4.120	4.100	213.050	213.060	213.300	213.030	213.040
PER	DY	MO	YR	DW	RES NO.4 EOP STOR	RES NO.4 EOP ELEV	RES NO.4 LEVEL	RES NO.4 CASE	RES NO.4 OUTFLOW	C.P. 213 MIN DESI	C.P. 213 DEQ-SHOR	C.P. 213 DIV REQU	C.P. 213 DIVERSIO	C.P. 213 FLOW REG
1	1	10	27	1	71500.00	1424.31	3.00	0.03	1221.09	400.00	0.00	100.00	100.00	1121.09
2	1	11	27	1	71500.00	1424.31	3.00	0.03	1272.75	400.00	0.00	140.00	140.00	1132.75
3	1	12	27	1	68492.70	1421.81	2.96	213.00	550.00	400.00	0.00	150.00	150.00	400.00
4	1	1	28	1	71500.00	1424.31	3.00	0.03	686.83	400.00	0.00	150.00	150.00	536.83
5	1	2	28	1	71500.00	1424.31	3.00	0.03	649.88	400.00	0.00	140.00	140.00	509.88
6	1	3	28	1	71500.00	1424.31	3.00	0.03	1388.55	400.00	0.00	120.00	120.00	1268.55
7	1	4	28	1	71500.00	1424.31	3.00	0.03	1003.32	400.00	0.00	100.00	100.00	903.32
8	1	5	28	1	71500.00	1424.31	3.00	0.03	1365.91	400.00	0.00	100.00	100.00	1265.91
9	1	6	28	1	71500.00	1424.31	3.00	0.03	1308.65	400.00	0.00	100.00	100.00	1208.65
10	1	7	28	1	62946.88	1417.19	2.88	213.00	500.00	400.00	0.00	100.00	100.00	400.00
11	1	8	28	1	49578.00	1404.96	2.68	213.00	500.00	400.00	0.00	100.00	100.00	400.00
12	1	9	28	1	30296.96	1382.56	2.41	213.00	500.00	400.00	0.00	100.00	100.00	400.00
13	1	10	28	1	11395.17	1347.65	2.14	213.00	500.00	400.00	0.00	100.00	100.00	400.00
14	1	11	28	1	300.00	1270.23	1.00	0.07	448.18	400.00	91.82	140.00	140.00	308.18
15	1	12	28	1	300.00	1270.23	1.00	0.07	481.09	400.00	68.91	150.00	150.00	331.09
16	1	1	29	1	300.00	1270.23	1.00	0.07	431.06	400.00	118.94	150.00	150.00	281.06
17	1	2	29	1	33127.54	1386.56	2.45	213.00	540.00	400.00	0.00	140.00	140.00	400.00
18	1	3	29	1	71500.00	1424.31	3.00	0.03	608.73	400.00	0.00	120.00	120.00	488.73
19	1	4	29	1	71500.00	1424.31	3.00	0.03	814.32	400.00	0.00	100.00	100.00	714.32
20	1	5	29	1	58208.72	1413.25	2.81	213.00	500.00	400.00	0.00	100.00	100.00	400.00
21	1	6	29	1	38184.39	1392.80	2.52	213.00	500.00	400.00	0.00	100.00	100.00	400.00
22	1	7	29	1	16693.91	1359.96	2.21	213.00	500.00	400.00	0.00	100.00	100.00	400.00
23	1	8	29	1	300.00	1270.23	1.00	0.07	474.76	400.00	25.24	100.00	100.00	374.76
24	1	9	29	1	6726.33	1330.07	2.07	213.00	500.00	400.00	0.00	100.00	100.00	400.00
25	1	10	29	1	13722.78	1353.63	2.17	213.00	500.00	400.00	0.00	100.00	100.00	400.00
26	1	11	29	1	14584.86	1355.46	2.18	213.00	540.00	400.00	0.00	140.00	140.00	400.00
27	1	12	29	1	13064.61	1352.22	2.16	213.00	550.00	400.00	0.00	150.00	150.00	400.00
28	1	1	30	1	8495.27	1336.73	2.09	213.00	550.00	400.00	0.00	150.00	150.00	400.00
29	1	2	30	1	20767.00	1368.63	2.27	213.00	540.00	400.00	0.00	140.00	140.00	400.00
30	1	3	30	1	43706.10	1398.69	2.60	213.00	520.00	400.00	0.00	120.00	120.00	400.00
31	1	4	30	1	43350.22	1398.31	2.59	213.00	500.00	400.00	0.00	100.00	100.00	400.00
32	1	5	30	1	48002.13	1403.28	2.66	213.00	500.00	400.00	0.00	100.00	100.00	400.00
33	1	6	30	1	37139.41	1391.69	2.51	213.00	500.00	400.00	0.00	100.00	100.00	400.00
34	1	7	30	1	12880.31	1351.83	2.16	213.00	500.00	400.00	0.00	100.00	100.00	400.00
35	1	8	30	1	300.00	1270.23	1.00	0.07	298.71	400.00	201.29	100.00	100.00	198.71
36	1	9	30	1	300.00	1270.23	1.00	0.07	75.00	400.00	400.00	100.00	75.00	0.00
37	1	10	30	1	300.00	1270.23	1.00	0.07	75.98	400.00	400.00	100.00	75.98	0.00
38	1	11	30	1	300.00	1270.23	1.00	0.07	102.10	400.00	400.00	140.00	102.10	0.00
39	1	12	30	1	300.00	1270.23	1.00	0.07	124.09	400.00	400.00	150.00	124.09	0.00
40	1	1	31	1	300.00	1270.23	1.00	0.07	164.06	400.00	385.94	150.00	150.00	14.06
41	1	2	31	1	7482.21	1332.91	2.08	213.00	540.00	400.00	0.00	140.00	140.00	400.00
42	1	3	31	1	29582.10	1381.55	2.40	213.00	520.00	400.00	0.00	120.00	120.00	400.00

RUN13 (CONTINUED)

LOC NO=					4.	4.	4.	4.	4.	213.	213.	213.	213.	213.
PER	DY	MO	YR	DW	RES NO.4 EOP STOR	RES NO.4 EOP ELEV	RES NO.4 LEVEL	RES NO.4 CASE	RES NO.4 OUTFLOW	C.P. 213 MIN DESI	C.P. 213 DEQ-SHOR	C.P. 213 DIV REQU	C.P. 213 DIVERSIO	C.P. 213 FLOW REG
43	1	4	31	1	47838.99	1403.10	2.66	213.00	500.00	400.00	0.00	100.00	100.00	400.00
44	1	5	31	1	39700.25	1394.42	2.54	213.00	500.00	400.00	0.00	100.00	100.00	400.00
45	1	6	31	1	34964.53	1389.16	2.47	213.00	500.00	400.00	0.00	100.00	100.00	400.00
46	1	7	31	1	16916.39	1360.43	2.21	213.00	500.00	400.00	0.00	100.00	100.00	400.00
47	1	8	31	1	300.00	1270.23	1.00	0.07	415.38	400.00	84.62	100.00	100.00	315.38
48	1	9	31	1	300.00	1270.23	1.00	0.07	74.00	400.00	400.00	100.00	74.00	0.00
49	1	10	31	1	300.00	1270.23	1.00	0.07	79.98	400.00	400.00	100.00	79.98	0.00
50	1	11	31	1	300.00	1270.23	1.00	0.07	133.10	400.00	400.00	140.00	133.10	0.00
51	1	12	31	1	300.00	1270.23	1.00	0.07	475.09	400.00	74.91	150.00	150.00	325.09
52	1	1	32	1	300.00	1270.23	1.00	0.07	433.06	400.00	116.94	150.00	150.00	283.06
53	1	2	32	1	300.00	1270.23	1.00	0.07	530.06	400.00	9.94	140.00	140.00	390.06
54	1	3	32	1	36418.54	1390.92	2.50	213.00	520.00	400.00	0.00	120.00	120.00	400.00
55	1	4	32	1	36937.75	1391.47	2.50	213.00	500.00	400.00	0.00	100.00	100.00	400.00
56	1	5	32	1	37772.76	1392.36	2.51	213.00	500.00	400.00	0.00	100.00	100.00	400.00
57	1	6	32	1	24465.64	1374.32	2.32	213.00	500.00	400.00	0.00	100.00	100.00	400.00
58	1	7	32	1	1731.87	1296.22	1.84	213.00	500.00	400.00	0.00	100.00	100.00	400.00
59	1	8	32	1	300.00	1270.23	1.00	0.07	100.32	400.00	399.68	100.00	100.00	0.32
60	1	9	32	1	300.00	1270.23	1.00	0.07	429.00	400.00	71.00	100.00	100.00	329.00
61	1	10	32	1	43623.60	1398.61	2.60	213.00	500.00	400.00	0.00	100.00	100.00	400.00
62	1	11	32	1	35479.43	1389.89	2.48	213.00	540.00	400.00	0.00	140.00	140.00	400.00
63	1	12	32	1	28741.09	1380.36	2.38	213.00	550.00	400.00	0.00	150.00	150.00	400.00
64	1	1	33	1	27356.38	1378.40	2.36	213.00	550.00	400.00	0.00	150.00	150.00	400.00
65	1	2	33	1	47956.02	1403.23	2.66	213.00	540.00	400.00	0.00	140.00	140.00	400.00
66	1	3	33	1	71500.00	1424.31	3.00	0.03	844.18	400.00	0.00	120.00	120.00	724.18
67	1	4	33	1	71500.00	1424.31	3.00	0.03	659.32	400.00	0.00	100.00	100.00	559.32
68	1	5	33	1	62206.73	1416.58	2.87	213.00	500.00	400.00	0.00	100.00	100.00	400.00
69	1	6	33	1	45100.25	1400.18	2.62	213.00	500.00	400.00	0.00	100.00	100.00	400.00
70	1	7	33	1	71500.00	1424.31	3.00	0.03	603.46	400.00	0.00	100.00	100.00	503.46
71	1	8	33	1	71500.00	1424.31	3.00	0.03	1237.70	400.00	0.00	100.00	100.00	1137.70
72	1	9	33	1	71500.00	1424.31	3.00	0.03	523.96	400.00	0.00	100.00	100.00	423.96
73	1	10	33	1	64375.15	1418.38	2.90	213.00	500.00	400.00	0.00	100.00	100.00	400.00
74	1	11	33	1	53550.03	1409.20	2.74	213.00	540.00	400.00	0.00	140.00	140.00	400.00
75	1	12	33	1	63729.97	1417.85	2.89	213.00	550.00	400.00	0.00	150.00	150.00	400.00
76	1	1	34	1	38590.67	1393.23	2.53	213.00	550.00	400.00	0.00	150.00	150.00	400.00
77	1	2	34	1	34196.13	1388.07	2.46	213.00	540.00	400.00	0.00	140.00	140.00	400.00
78	1	3	34	1	71500.00	1424.31	3.00	0.03	591.13	400.00	0.00	120.00	120.00	471.13
79	1	4	34	1	71500.00	1424.31	3.00	0.03	554.32	400.00	0.00	100.00	100.00	454.32
80	1	5	34	1	59684.91	1414.48	2.83	213.00	500.00	400.00	0.00	100.00	100.00	400.00
81	1	6	34	1	41506.16	1396.35	2.57	213.00	500.00	400.00	0.00	100.00	100.00	400.00
82	1	7	34	1	21309.63	1369.79	2.28	213.00	500.00	400.00	0.00	100.00	100.00	400.00
83	1	8	34	1	22128.70	1371.02	2.29	213.00	500.00	400.00	0.00	100.00	100.00	400.00
84	1	9	34	1	17605.41	1361.90	2.22	213.00	500.00	400.00	0.00	100.00	100.00	400.00
85	1	10	34	1	24958.73	1375.02	2.33	213.00	500.00	400.00	0.00	100.00	100.00	400.00
86	1	11	34	1	65565.19	1419.37	2.91	213.00	540.00	400.00	0.00	140.00	140.00	400.00
87	1	12	34	1	66789.57	1420.39	2.93	213.00	550.00	400.00	0.00	150.00	150.00	400.00
88	1	1	35	1	54888.24	1410.49	2.76	213.00	550.00	400.00	0.00	150.00	150.00	400.00
89	1	2	35	1	71500.00	1424.31	3.00	0.03	747.60	400.00	0.00	140.00	140.00	607.60
90	1	3	35	1	71500.00	1424.31	3.00	0.03	766.55	400.00	0.00	120.00	120.00	646.55

RUN13 (CONTINUED)

LOC NO=					4.	4.	4.	4.	4.	213.	213.	213.	213.	213.
PER	DY	MO	YR	DW	RES NO.4 EOP STOR	RES NO.4 EOP ELEV	RES NO.4 LEVEL	RES NO.4 CASE	RES NO.4 OUTFLOW	C.P. 213 MIN DESI	C.P. 213 DEQ-SHOR	C.P. 213 DIV REQU	C.P. 213 DIVERSIO	C.P. 213 FLOW REG
91	1	4	35	1	71500.00	1424.31	3.00	0.03	549.32	400.00	0.00	100.00	100.00	449.32
92	1	5	35	1	64667.05	1418.62	2.90	213.00	500.00	400.00	0.00	100.00	100.00	400.00
93	1	6	35	1	71500.00	1424.31	3.00	0.03	1062.80	400.00	0.00	100.00	100.00	962.80
94	1	7	35	1	56303.94	1411.67	2.78	213.00	500.00	400.00	0.00	100.00	100.00	400.00
95	1	8	35	1	37089.46	1391.63	2.50	213.00	500.00	400.00	0.00	100.00	100.00	400.00
96	1	9	35	1	17987.23	1362.71	2.23	213.00	500.00	400.00	0.00	100.00	100.00	400.00
97	1	10	35	1	40830.29	1395.62	2.56	213.00	500.00	400.00	0.00	100.00	100.00	400.00
98	1	11	35	1	50376.10	1405.81	2.70	213.00	540.00	400.00	0.00	140.00	140.00	400.00
99	1	12	35	1	54451.35	1410.13	2.75	213.00	550.00	400.00	0.00	150.00	150.00	400.00
100	1	1	36	1	41112.11	1395.93	2.56	213.00	550.00	400.00	0.00	150.00	150.00	400.00
101	1	2	36	1	71500.00	1424.31	3.00	0.03	2568.10	400.00	0.00	140.00	140.00	2428.10
102	1	3	36	1	71500.00	1424.31	3.00	0.03	823.55	400.00	0.00	120.00	120.00	703.55
103	1	4	36	1	63057.04	1417.29	2.88	213.00	500.00	400.00	0.00	100.00	100.00	400.00
104	1	5	36	1	48837.81	1404.17	2.67	213.00	500.00	400.00	0.00	100.00	100.00	400.00
105	1	6	36	1	26607.77	1377.35	2.35	213.00	500.00	400.00	0.00	100.00	100.00	400.00
106	1	7	36	1	300.00	1270.23	1.00	0.07	493.13	400.00	6.87	100.00	100.00	393.13
107	1	8	36	1	300.00	1270.23	1.00	0.07	43.01	400.00	400.00	100.00	43.01	0.00
108	1	9	36	1	300.00	1270.23	1.00	0.07	140.00	400.00	360.00	100.00	100.00	40.00
109	1	10	36	1	300.00	1270.23	1.00	0.07	171.98	400.00	328.02	100.00	100.00	71.98
110	1	11	36	1	1500.84	1292.97	1.71	213.00	540.00	400.00	0.00	140.00	140.00	400.00
111	1	12	36	1	29503.47	1381.44	2.40	213.00	550.00	400.00	0.00	150.00	150.00	400.00
112	1	1	37	1	48615.36	1403.93	2.67	213.00	550.00	400.00	0.00	150.00	150.00	400.00
113	1	2	37	1	56465.71	1411.80	2.78	213.00	540.00	400.00	0.00	140.00	140.00	400.00
114	1	3	37	1	71500.00	1424.31	3.00	0.03	1040.74	400.00	0.00	120.00	120.00	920.74
115	1	4	37	1	71500.00	1424.31	3.00	0.03	797.32	400.00	0.00	100.00	100.00	697.32
116	1	5	37	1	63190.86	1417.40	2.88	213.00	500.00	400.00	0.00	100.00	100.00	400.00
117	1	6	37	1	49536.81	1404.92	2.68	213.00	500.00	400.00	0.00	100.00	100.00	400.00
118	1	7	37	1	38448.25	1393.08	2.52	213.00	500.00	400.00	0.00	100.00	100.00	400.00
119	1	8	37	1	21501.29	1370.13	2.28	213.00	500.00	400.00	0.00	100.00	100.00	400.00
120	1	9	37	1	36554.89	1391.06	2.50	213.00	500.00	400.00	0.00	100.00	100.00	400.00
			SUM =		4505553.95	164687.67	278.50	15338.36	67073.20	48000.00	5544.13	14000.00	13777.26	53295.94
			MAX =		71500.00	1424.31	3.00	213.00	2568.10	400.00	400.00	150.00	150.00	2428.10
			MIN =		300.00	1270.23	1.00	0.03	43.01	400.00	0.00	100.00	43.01	0.00
			PMAX=		101.00	1.00	1.00	3.00	101.00	1.00	36.00	3.00	3.00	101.00
			AVG =		37546.28	1372.40	2.32	127.82	558.94	400.00	46.20	116.67	114.81	444.13
			PMIN=		37.00	14.00	36.00	1.00	107.00	1.00	1.00	1.00	107.00	36.00

RUN14 - SUMMARY OUTPUT

SUMMARY BY PERIOD FLOOD= 1

LOC NO=					4.	4.	4.	4.	4.	213.	213.	213.	213.	213.
CODE=					4.110	4.220	4.130	4.120	4.100	213.050	213.060	213.300	213.030	213.040
PER	DY	MO	YR	DW	RES NO.4 EOP STOR	RES NO.4 EOP ELEV	RES NO.4 LEVEL	RES NO.4 CASE	RES NO.4 OUTFLOW	C.P. 213 MIN DESI	C.P. 213 DEQ-SHOR	C.P. 213 DIV REQU	C.P. 213 DIVERSIO	C.P. 213 FLOW REG
1	1	10	27	1	71500.00	1424.31	3.00	0.03	1221.09	400.00	0.00	200.00	200.00	1021.09
2	1	11	27	1	71500.00	1424.31	3.00	0.03	1272.75	400.00	0.00	190.00	190.00	1082.75
3	1	12	27	1	66645.38	1420.27	2.93	213.00	580.00	400.00	0.00	180.00	180.00	400.00
4	1	1	28	1	71500.00	1424.31	3.00	0.03	656.75	400.00	0.00	170.00	170.00	486.75
5	1	2	28	1	71500.00	1424.31	3.00	0.03	649.88	400.00	0.00	160.00	160.00	489.88
6	1	3	28	1	71500.00	1424.31	3.00	0.03	1388.55	400.00	0.00	170.00	170.00	1218.55
7	1	4	28	1	71500.00	1424.31	3.00	0.03	1003.32	400.00	0.00	160.00	160.00	843.32
8	1	5	28	1	71500.00	1424.31	3.00	0.03	1365.91	400.00	0.00	150.00	150.00	1215.91
9	1	6	28	1	71500.00	1424.31	3.00	0.03	1308.65	400.00	0.00	155.00	155.00	1153.65
10	1	7	28	1	60486.53	1415.15	2.84	213.00	540.00	400.00	0.00	140.00	140.00	400.00
11	1	8	28	1	46501.48	1401.68	2.64	213.00	510.00	400.00	0.00	110.00	110.00	400.00
12	1	9	28	1	26030.41	1376.53	2.35	213.00	520.00	400.00	0.00	120.00	120.00	400.00
13	1	10	28	1	6211.46	1328.13	2.06	213.00	515.00	400.00	0.00	115.00	115.00	400.00
14	1	11	28	1	300.00	1270.23	1.00	0.07	360.78	400.00	184.22	145.00	145.00	215.78
15	1	12	28	1	300.00	1270.23	1.00	0.07	481.09	400.00	73.91	155.00	155.00	326.09
16	1	1	29	1	300.00	1270.23	1.00	0.07	431.06	400.00	88.94	120.00	120.00	311.06
17	1	2	29	1	34796.38	1388.92	2.47	213.00	510.00	400.00	0.00	110.00	110.00	400.00
18	1	3	29	1	71500.00	1424.31	3.00	0.03	635.90	400.00	0.00	140.00	140.00	495.90
19	1	4	29	1	71500.00	1424.31	3.00	0.03	814.32	400.00	0.00	110.00	110.00	704.32
20	1	5	29	1	56671.02	1411.97	2.79	213.00	525.00	400.00	0.00	125.00	125.00	400.00
21	1	6	29	1	36050.94	1390.52	2.49	213.00	510.00	400.00	0.00	110.00	110.00	400.00
22	1	7	29	1	12098.64	1350.17	2.15	213.00	540.00	400.00	0.00	140.00	140.00	400.00
23	1	8	29	1	300.00	1270.23	1.00	0.07	400.00	400.00	160.00	160.00	160.00	240.00
24	1	9	29	1	1966.05	1299.52	1.98	213.00	580.00	400.00	0.00	180.00	180.00	400.00
25	1	10	29	1	4359.07	1317.45	2.03	213.00	575.00	400.00	0.00	175.00	175.00	400.00
26	1	11	29	1	3676.28	1312.40	2.02	213.00	565.00	400.00	0.00	165.00	165.00	400.00
27	1	12	29	1	2098.91	1300.73	2.00	213.00	550.00	400.00	0.00	150.00	150.00	400.00
28	1	1	30	1	300.00	1270.23	1.00	0.07	504.38	400.00	35.62	140.00	140.00	364.38
29	1	2	30	1	12267.29	1350.53	2.15	213.00	545.00	400.00	0.00	145.00	145.00	400.00
30	1	3	30	1	33029.88	1386.42	2.45	213.00	555.00	400.00	0.00	155.00	155.00	400.00
31	1	4	30	1	28473.91	1379.98	2.38	213.00	570.00	400.00	0.00	170.00	170.00	400.00
32	1	5	30	1	28196.42	1379.59	2.38	213.00	580.00	400.00	0.00	180.00	180.00	400.00
33	1	6	30	1	11968.16	1349.80	2.14	213.00	590.00	400.00	0.00	190.00	190.00	400.00
34	1	7	30	1	300.00	1270.23	1.00	0.07	294.91	400.00	300.09	195.00	195.00	99.91
35	1	8	30	1	300.00	1270.23	1.00	0.07	94.01	400.00	400.00	200.00	94.01	0.00
36	1	9	30	1	300.00	1270.23	1.00	0.07	75.00	400.00	400.00	190.00	75.00	0.00
37	1	10	30	1	300.00	1270.23	1.00	0.07	75.98	400.00	400.00	180.00	75.98	0.00
38	1	11	30	1	300.00	1270.23	1.00	0.07	102.10	400.00	400.00	185.00	102.10	0.00
39	1	12	30	1	300.00	1270.23	1.00	0.07	124.09	400.00	400.00	175.00	124.09	0.00
40	1	1	31	1	300.00	1270.23	1.00	0.07	164.06	400.00	400.00	165.00	164.06	0.00
41	1	2	31	1	6369.23	1328.72	2.06	213.00	560.00	400.00	0.00	160.00	160.00	400.00
42	1	3	31	1	26923.86	1377.79	2.36	213.00	545.00	400.00	0.00	145.00	145.00	400.00

RUN14 (CONTINUED)

LOC NO=					4.	4.	4.	4.	4.	213.	213.	213.	213.	213.
PER	DY	MO	YR	DW	RES NO.4 EOP STOR	RES NO.4 EOP ELEV	RES NO.4 LEVEL	RES NO.4 CASE	RES NO.4 OUTFLOW	C.P. 213 MIN DESI	C.P. 213 DEQ-SHOR	C.P. 213 DIV REQU	C.P. 213 DIVERSIO	C.P. 213 FLOW REG
43	1	4	31	1	42194.46	1397.08	2.58	213.00	550.00	400.00	0.00	150.00	150.00	400.00
44	1	5	31	1	33437.53	1387.00	2.45	213.00	510.00	400.00	0.00	110.00	110.00	400.00
45	1	6	31	1	27508.73	1378.62	2.37	213.00	520.00	400.00	0.00	120.00	120.00	400.00
46	1	7	31	1	8838.97	1338.02	2.10	213.00	510.00	400.00	0.00	110.00	110.00	400.00
47	1	8	31	1	300.00	1270.23	1.00	0.07	283.96	400.00	261.04	145.00	145.00	138.96
48	1	9	31	1	300.00	1270.23	1.00	0.07	74.00	400.00	400.00	120.00	74.00	0.00
49	1	10	31	1	300.00	1270.23	1.00	0.07	79.98	400.00	400.00	140.00	79.98	0.00
50	1	11	31	1	300.00	1270.23	1.00	0.07	133.10	400.00	400.00	150.00	133.10	0.00
51	1	12	31	1	300.00	1270.23	1.00	0.07	475.09	400.00	34.91	110.00	110.00	365.09
52	1	1	32	1	300.00	1270.23	1.00	0.07	433.06	400.00	81.94	115.00	115.00	318.06
53	1	2	32	1	300.00	1270.23	1.00	0.07	530.06	400.00	9.94	140.00	140.00	390.06
54	1	3	32	1	34878.03	1389.04	2.47	213.00	545.00	400.00	0.00	145.00	145.00	400.00
55	1	4	32	1	34201.24	1388.08	2.46	213.00	520.00	400.00	0.00	120.00	120.00	400.00
56	1	5	32	1	34112.01	1387.95	2.46	213.00	515.00	400.00	0.00	115.00	115.00	400.00
57	1	6	32	1	20803.23	1368.71	2.27	213.00	500.00	400.00	0.00	100.00	100.00	400.00
58	1	7	32	1	300.00	1270.23	1.00	0.07	463.68	400.00	46.32	110.00	110.00	353.68
59	1	8	32	1	300.00	1270.23	1.00	0.07	77.01	400.00	400.00	105.00	77.01	0.00
60	1	9	32	1	300.00	1270.23	1.00	0.07	429.00	400.00	81.00	110.00	110.00	319.00
61	1	10	32	1	42394.25	1397.29	2.58	213.00	520.00	400.00	0.00	120.00	120.00	400.00
62	1	11	32	1	35140.47	1389.41	2.48	213.00	525.00	400.00	0.00	125.00	125.00	400.00
63	1	12	32	1	30248.52	1382.49	2.41	213.00	520.00	400.00	0.00	120.00	120.00	400.00
64	1	1	33	1	24250.58	1374.01	2.32	213.00	625.00	400.00	0.00	225.00	225.00	400.00
65	1	2	33	1	40119.52	1394.87	2.55	213.00	625.00	400.00	0.00	225.00	225.00	400.00
66	1	3	33	1	71500.00	1424.31	3.00	0.03	716.57	400.00	0.00	245.00	245.00	471.57
67	1	4	33	1	71500.00	1424.31	3.00	0.03	659.32	400.00	0.00	240.00	240.00	419.32
68	1	5	33	1	52673.01	1408.26	2.73	213.00	655.00	400.00	0.00	255.00	255.00	400.00
69	1	6	33	1	26040.23	1376.54	2.35	213.00	660.00	400.00	0.00	260.00	260.00	400.00
70	1	7	33	1	48336.00	1403.64	2.67	213.00	670.00	400.00	0.00	270.00	270.00	400.00
71	1	8	33	1	71500.00	1424.31	3.00	0.03	860.89	400.00	0.00	110.00	110.00	750.89
72	1	9	33	1	71438.35	1424.26	3.00	213.00	525.00	400.00	0.00	125.00	125.00	400.00
73	1	10	33	1	55707.86	1411.17	2.77	213.00	640.00	400.00	0.00	240.00	240.00	400.00
74	1	11	33	1	37705.95	1392.29	2.51	213.00	660.00	400.00	0.00	260.00	260.00	400.00
75	1	12	33	1	40763.91	1395.55	2.56	213.00	665.00	400.00	0.00	265.00	265.00	400.00
76	1	1	34	1	9120.67	1339.08	2.10	213.00	655.00	400.00	0.00	255.00	255.00	400.00
77	1	2	34	1	300.00	1270.23	1.00	0.07	618.20	400.00	46.80	265.00	265.00	353.20
78	1	3	34	1	32659.71	1385.90	2.44	213.00	670.00	400.00	0.00	270.00	270.00	400.00
79	1	4	34	1	26255.20	1376.85	2.35	213.00	660.00	400.00	0.00	260.00	260.00	400.00
80	1	5	34	1	4876.25	1321.27	2.04	213.00	655.00	400.00	0.00	255.00	255.00	400.00
81	1	6	34	1	300.00	1270.23	1.00	0.07	270.95	400.00	289.05	160.00	160.00	110.95
82	1	7	34	1	300.00	1270.23	1.00	0.07	171.02	400.00	373.98	145.00	145.00	26.02
83	1	8	34	1	300.00	1270.23	1.00	0.07	513.01	400.00	36.99	150.00	150.00	363.01
84	1	9	34	1	300.00	1270.23	1.00	0.07	424.00	400.00	86.00	110.00	110.00	314.00
85	1	10	34	1	6443.54	1329.00	2.06	213.00	520.00	400.00	0.00	120.00	120.00	400.00
86	1	11	34	1	48781.70	1404.11	2.67	213.00	510.00	400.00	0.00	110.00	110.00	400.00
87	1	12	34	1	50267.09	1405.70	2.69	213.00	545.00	400.00	0.00	145.00	145.00	400.00
88	1	1	35	1	40182.40	1394.93	2.55	213.00	520.00	400.00	0.00	120.00	120.00	400.00
89	1	2	35	1	68306.93	1421.65	2.95	213.00	540.00	400.00	0.00	140.00	140.00	400.00
90	1	3	35	1	71500.00	1424.31	3.00	0.03	714.56	400.00	0.00	150.00	150.00	564.56

RUN14 (CONTINUED)

LOC NO=					4.	4.	4.	4.	4.	213.	213.	213.	213.	213.
PER	DY	MO	YR	DW	RES NO.4 EOP STOR	RES NO.4 EOP ELEV	RES NO.4 LEVEL	RES NO.4 CASE	RES NO.4 OUTFLOW	C.P. 213 MIN DESI	C.P. 213 DEQ-SHOR	C.P. 213 DIV REQU	C.P. 213 DIVERSIO	C.P. 213 FLOW REG
91	1	4	35	1	71500.00	1424.31	3.00	0.03	549.32	400.00	0.00	110.00	110.00	439.32
92	1	5	35	1	63744.43	1417.86	2.89	213.00	515.00	400.00	0.00	115.00	115.00	400.00
93	1	6	35	1	71500.00	1424.31	3.00	0.03	1047.29	400.00	0.00	140.00	140.00	907.29
94	1	7	35	1	53536.05	1409.18	2.74	213.00	545.00	400.00	0.00	145.00	145.00	400.00
95	1	8	35	1	33090.36	1386.51	2.45	213.00	520.00	400.00	0.00	120.00	120.00	400.00
96	1	9	35	1	13095.66	1352.29	2.16	213.00	515.00	400.00	0.00	115.00	115.00	400.00
97	1	10	35	1	35941.92	1390.41	2.49	213.00	500.00	400.00	0.00	100.00	100.00	400.00
98	1	11	35	1	47261.64	1402.49	2.65	213.00	510.00	400.00	0.00	110.00	110.00	400.00
99	1	12	35	1	54099.47	1409.79	2.75	213.00	505.00	400.00	0.00	105.00	105.00	400.00
100	1	1	36	1	43221.26	1398.18	2.59	213.00	510.00	400.00	0.00	110.00	110.00	400.00
101	1	2	36	1	71500.00	1424.31	3.00	0.03	2604.80	400.00	0.00	120.00	120.00	2484.80
102	1	3	36	1	71500.00	1424.31	3.00	0.03	823.55	400.00	0.00	125.00	125.00	698.55
103	1	4	36	1	61865.21	1416.29	2.86	213.00	520.00	400.00	0.00	120.00	120.00	400.00
104	1	5	36	1	39957.00	1394.69	2.55	213.00	625.00	400.00	0.00	225.00	225.00	400.00
105	1	6	36	1	10283.29	1343.46	2.12	213.00	625.00	400.00	0.00	225.00	225.00	400.00
106	1	7	36	1	300.00	1270.23	1.00	0.07	227.49	400.00	400.00	245.00	227.49	0.00
107	1	8	36	1	300.00	1270.23	1.00	0.07	43.01	400.00	400.00	240.00	43.01	0.00
108	1	9	36	1	300.00	1270.23	1.00	0.07	140.00	400.00	400.00	255.00	140.00	0.00
109	1	10	36	1	300.00	1270.23	1.00	0.07	171.98	400.00	400.00	260.00	171.98	0.00
110	1	11	36	1	300.00	1270.23	1.00	0.07	560.10	400.00	109.90	270.00	270.00	290.10
111	1	12	36	1	30762.31	1383.22	2.41	213.00	510.00	400.00	0.00	110.00	110.00	400.00
112	1	1	37	1	51414.85	1406.92	2.71	213.00	525.00	400.00	0.00	125.00	125.00	400.00
113	1	2	37	1	53711.45	1409.37	2.74	213.00	640.00	400.00	0.00	240.00	240.00	400.00
114	1	3	37	1	71500.00	1424.31	3.00	0.03	995.90	400.00	0.00	260.00	260.00	735.90
115	1	4	37	1	71500.00	1424.31	3.00	0.03	797.32	400.00	0.00	265.00	265.00	532.32
116	1	5	37	1	53657.14	1409.31	2.74	213.00	655.00	400.00	0.00	255.00	255.00	400.00
117	1	6	37	1	30179.10	1382.39	2.41	213.00	665.00	400.00	0.00	265.00	265.00	400.00
118	1	7	37	1	8620.77	1337.20	2.10	213.00	670.00	400.00	0.00	270.00	270.00	400.00
119	1	8	37	1	300.00	1270.23	1.00	0.07	359.41	400.00	300.59	260.00	260.00	99.41
120	1	9	37	1	6131.29	1327.83	2.06	213.00	655.00	400.00	0.00	255.00	255.00	400.00
				SUM =	3662980.86	162810.35	257.04	14273.91	67582.21	48000.00	8201.25	20095.00	19066.82	48515.38
				MAX =	71500.00	1424.31	3.00	213.00	2604.80	400.00	400.00	270.00	270.00	2484.80
				MIN =	300.00	1270.23	1.00	0.03	43.01	400.00	0.00	100.00	43.01	0.00
				PMAX=	2.00	1.00	1.00	3.00	101.00	1.00	35.00	70.00	70.00	101.00
				AVG =	30524.84	1356.75	2.14	118.95	563.19	400.00	68.34	167.46	158.89	404.29
				PMIN=	35.00	14.00	34.00	1.00	107.00	1.00	1.00	57.00	107.00	35.00

RUN15 - SUMMARY OUTPUT

SUMMARY BY PERIOD FLOOD= 1

LOC NO=					4.	4.	4.	4.	4.	4.	213.	213.	213.	213.
CODE=					4.110	4.220	4.130	4.120	4.100	4.030	213.030	213.050	213.060	213.040
PER	DY	MO	YR	DW	RES NO.4 EOP STOR	RES NO.4 EOP ELEV	RES NO.4 LEVEL	RES NO.4 CASE	RES NO.4 OUTFLOW	RES NO.4 DIVERSIO	C.P. 213 DIVERSIO	C.P. 213 MIN DESI	C.P. 213 DEQ-SHOR	C.P. 213 FLOW REG
1	1	10	27	1	71500.00	1424.31	3.00	0.03	1106.78	114.31	-22.86	400.00	0.00	1129.64
2	1	11	27	1	71500.00	1424.31	3.00	0.03	1158.44	114.31	-22.86	400.00	0.00	1181.31
3	1	12	27	1	71500.00	1424.31	3.00	0.03	386.85	114.31	-22.86	400.00	0.00	409.71
4	1	1	28	1	71500.00	1424.31	3.00	0.03	621.47	114.31	-22.86	400.00	0.00	644.33
5	1	2	28	1	71500.00	1424.31	3.00	0.03	535.57	114.31	-22.86	400.00	0.00	558.43
6	1	3	28	1	71500.00	1424.31	3.00	0.03	1274.24	114.31	-22.86	400.00	0.00	1297.10
7	1	4	28	1	71500.00	1424.31	3.00	0.03	889.01	114.31	-22.86	400.00	0.00	911.87
8	1	5	28	1	71500.00	1424.31	3.00	0.03	1251.60	114.31	-22.86	400.00	0.00	1274.46
9	1	6	28	1	71500.00	1424.31	3.00	0.03	1194.34	114.31	-22.86	400.00	0.00	1217.20
10	1	7	28	1	63472.92	1417.63	2.88	213.00	377.14	114.31	-22.86	400.00	0.00	400.00
11	1	8	28	1	50958.89	1406.43	2.70	213.00	378.47	107.63	-21.53	400.00	0.00	400.00
12	1	9	28	1	33037.64	1386.43	2.45	213.00	380.71	96.43	-19.29	400.00	0.00	400.00
13	1	10	28	1	16522.00	1359.59	2.21	213.00	384.71	76.43	-15.29	400.00	0.00	400.00
14	1	11	28	1	5962.64	1327.19	2.06	213.00	390.08	49.59	-9.92	400.00	0.00	400.00
15	1	12	28	1	9922.39	1342.10	2.11	213.00	395.65	21.75	-4.35	400.00	0.00	400.00
16	1	1	29	1	10211.64	1343.19	2.12	213.00	393.26	33.68	-6.74	400.00	0.00	400.00
17	1	2	29	1	49310.63	1404.68	2.68	213.00	393.09	34.55	-6.91	400.00	0.00	400.00
18	1	3	29	1	71500.00	1424.31	3.00	0.03	777.56	94.68	-18.94	400.00	0.00	796.50
19	1	4	29	1	71500.00	1424.31	3.00	0.03	700.01	114.31	-22.86	400.00	0.00	722.87
20	1	5	29	1	58734.76	1413.69	2.82	213.00	377.14	114.31	-22.86	400.00	0.00	400.00
21	1	6	29	1	39725.29	1394.45	2.54	213.00	379.26	103.69	-20.74	400.00	0.00	400.00
22	1	7	29	1	20231.45	1367.49	2.26	213.00	383.11	84.45	-16.89	400.00	0.00	400.00
23	1	8	29	1	5610.12	1325.87	2.05	213.00	388.50	57.49	-11.50	400.00	0.00	400.00
24	1	9	29	1	17001.53	1360.61	2.22	213.00	395.86	20.69	-4.14	400.00	0.00	400.00
25	1	10	29	1	27644.48	1378.81	2.37	213.00	389.88	50.61	-10.12	400.00	0.00	400.00
26	1	11	29	1	33632.11	1387.28	2.46	213.00	386.24	68.81	-13.76	400.00	0.00	400.00
27	1	12	29	1	37614.29	1392.19	2.51	213.00	384.54	77.28	-15.46	400.00	0.00	400.00
28	1	1	30	1	38292.88	1392.92	2.52	213.00	383.56	82.19	-16.44	400.00	0.00	400.00
29	1	2	30	1	54723.20	1410.35	2.76	213.00	383.42	82.92	-16.58	400.00	0.00	400.00
30	1	3	30	1	71500.00	1424.31	3.00	0.03	521.02	100.35	-20.07	400.00	0.00	541.09
31	1	4	30	1	71500.00	1424.31	3.00	0.03	381.01	114.31	-22.86	400.00	0.00	403.87
32	1	5	30	1	71500.00	1424.31	3.00	0.03	461.60	114.31	-22.86	400.00	0.00	484.46
33	1	6	30	1	61155.95	1415.70	2.85	213.00	377.14	114.31	-22.86	400.00	0.00	400.00
34	1	7	30	1	37861.23	1392.46	2.52	213.00	378.86	105.70	-21.14	400.00	0.00	400.00
35	1	8	30	1	15011.76	1356.37	2.19	213.00	383.51	82.46	-16.49	400.00	0.00	400.00
36	1	9	30	1	2000.00	1300.00	2.00	213.00	247.29	46.37	-9.27	400.00	143.44	256.56
37	1	10	30	1	521.71	1277.97	1.13	213.00	100.00	0.00	0.00	400.00	300.00	100.00
38	1	11	30	1	649.52	1280.98	1.21	213.00	100.00	0.00	0.00	400.00	300.00	100.00
39	1	12	30	1	2000.00	1300.00	2.00	213.00	102.23	0.00	0.00	400.00	297.77	102.23
40	1	1	31	1	2000.00	1300.00	2.00	213.00	164.17	0.00	0.00	400.00	235.83	164.17
41	1	2	31	1	16976.57	1360.56	2.22	213.00	400.00	0.00	0.00	400.00	0.00	400.00
42	1	3	31	1	44003.55	1399.01	2.60	213.00	389.89	50.56	-10.11	400.00	0.00	400.00

LOC NO=					4.	4.	4.	4.	4.	4.	213.	213.	213.	213.
PER	DY	MO	YR	DW	RES NO.4 EOP STOR	RES NO.4 EOP ELEV	RES NO.4 LEVEL	RES NO.4 CASE	RES NO.4 OUTFLOW	RES NO.4 DIVERSIO	C.P. 213 DIVERSIO	C.P. 213 MIN DESI	C.P. 213 DEQ-SHOR	C.P. 213 FLOW REG
43	1	4	31	1	64012.66	1418.08	2.89	213.00	382.20	89.01	-17.80	400.00	0.00	400.00
44	1	5	31	1	56715.87	1412.01	2.79	213.00	378.38	108.08	-21.62	400.00	0.00	400.00
45	1	6	31	1	53081.36	1408.70	2.73	213.00	379.60	102.01	-20.40	400.00	0.00	400.00
46	1	7	31	1	36338.76	1390.83	2.49	213.00	380.26	98.70	-19.74	400.00	0.00	400.00
47	1	8	31	1	16705.17	1359.98	2.21	213.00	383.83	80.83	-16.17	400.00	0.00	400.00
48	1	9	31	1	2000.00	1300.00	2.00	213.00	271.14	49.98	-10.00	400.00	118.87	281.13
49	1	10	31	1	767.52	1282.64	1.28	213.00	100.00	0.00	0.00	400.00	300.00	100.00
50	1	11	31	1	2000.00	1300.00	2.00	213.00	112.52	0.00	0.00	400.00	287.48	112.52
51	1	12	31	1	6641.80	1329.75	2.07	213.00	400.00	0.00	0.00	400.00	0.00	400.00
52	1	1	32	1	7530.28	1333.10	2.08	213.00	395.24	23.80	-4.76	400.00	0.00	400.00
53	1	2	32	1	13830.34	1353.86	2.17	213.00	394.70	26.48	-5.30	400.00	0.00	400.00
54	1	3	32	1	55216.61	1410.76	2.77	213.00	391.23	43.86	-8.77	400.00	0.00	400.00
55	1	4	32	1	56939.72	1412.20	2.79	213.00	379.85	100.76	-20.15	400.00	0.00	400.00
56	1	5	32	1	58908.17	1413.83	2.82	213.00	379.56	102.20	-20.44	400.00	0.00	400.00
57	1	6	32	1	46617.26	1401.80	2.64	213.00	379.23	103.83	-20.77	400.00	0.00	400.00
58	1	7	32	1	25535.91	1375.83	2.34	213.00	381.64	91.80	-18.36	400.00	0.00	400.00
59	1	8	32	1	2450.14	1303.33	2.01	213.00	386.83	65.83	-13.17	400.00	0.00	400.00
60	1	9	32	1	4048.79	1315.15	2.03	213.00	399.47	2.66	-0.53	400.00	0.00	400.00
61	1	10	32	1	52920.64	1408.53	2.73	213.00	397.58	12.12	-2.42	400.00	0.00	400.00
62	1	11	32	1	48448.10	1403.75	2.67	213.00	380.29	98.53	-19.71	400.00	0.00	400.00
63	1	12	32	1	46361.55	1401.53	2.64	213.00	381.25	93.75	-18.75	400.00	0.00	400.00
64	1	1	33	1	49733.97	1405.13	2.69	213.00	381.69	91.53	-18.31	400.00	0.00	400.00
65	1	2	33	1	71500.00	1424.31	3.00	0.03	424.58	95.13	-19.03	400.00	0.00	443.60
66	1	3	33	1	71500.00	1424.31	3.00	0.03	1113.24	114.31	-22.86	400.00	0.00	1136.10
67	1	4	33	1	71500.00	1424.31	3.00	0.03	545.01	114.31	-22.86	400.00	0.00	567.87
68	1	5	33	1	62732.78	1417.02	2.87	213.00	377.14	114.31	-22.86	400.00	0.00	400.00
69	1	6	33	1	46482.80	1401.66	2.64	213.00	378.60	107.02	-21.40	400.00	0.00	400.00
70	1	7	33	1	71500.00	1424.31	3.00	0.03	534.29	91.66	-18.33	400.00	0.00	552.63
71	1	8	33	1	71500.00	1424.31	3.00	0.03	1123.39	114.31	-22.86	400.00	0.00	1146.25
72	1	9	33	1	71500.00	1424.31	3.00	0.03	409.65	114.31	-22.86	400.00	0.00	432.52
73	1	10	33	1	64900.86	1418.82	2.91	213.00	377.14	114.31	-22.86	400.00	0.00	400.00
74	1	11	33	1	57232.92	1412.44	2.79	213.00	378.24	108.82	-21.76	400.00	0.00	400.00
75	1	12	33	1	71500.00	1424.31	3.00	0.03	381.36	102.44	-20.49	400.00	0.00	401.85
76	1	1	34	1	49978.75	1405.39	2.69	213.00	377.14	114.31	-22.86	400.00	0.00	400.00
77	1	2	34	1	49143.03	1404.50	2.68	213.00	380.92	95.39	-19.08	400.00	0.00	400.00
78	1	3	34	1	71500.00	1424.31	3.00	0.03	740.01	94.50	-18.90	400.00	0.00	758.91
79	1	4	34	1	71500.00	1424.31	3.00	0.03	440.01	114.31	-22.86	400.00	0.00	462.87
80	1	5	34	1	60210.95	1414.92	2.84	213.00	377.14	114.31	-22.86	400.00	0.00	400.00
81	1	6	34	1	42988.59	1397.93	2.59	213.00	379.02	104.92	-20.98	400.00	0.00	400.00
82	1	7	34	1	24617.28	1374.53	2.33	213.00	382.41	87.93	-17.59	400.00	0.00	400.00
83	1	8	34	1	28413.17	1379.90	2.38	213.00	387.09	64.53	-12.91	400.00	0.00	400.00
84	1	9	34	1	26512.71	1377.21	2.35	213.00	386.02	69.90	-13.98	400.00	0.00	400.00
85	1	10	34	1	36701.86	1391.22	2.50	213.00	386.56	67.21	-13.44	400.00	0.00	400.00
86	1	11	34	1	71500.00	1424.31	3.00	0.03	556.81	81.22	-16.24	400.00	0.00	573.05
87	1	12	34	1	71500.00	1424.31	3.00	0.03	455.85	114.31	-22.86	400.00	0.00	478.71
88	1	1	35	1	63211.54	1417.41	2.88	213.00	377.14	114.31	-22.86	400.00	0.00	400.00
89	1	2	35	1	71500.00	1424.31	3.00	0.03	790.19	107.41	-21.48	400.00	0.00	811.67
90	1	3	35	1	71500.00	1424.31	3.00	0.03	652.24	114.31	-22.86	400.00	0.00	675.10

RUN15 (CONTINUED)

LOC NO=						4.	4.	4.	4.	4.	4.	213.	213.	213.	213.
PER	DY	MO	YR	DW		RES NO.4 EOP STOR	RES NO.4 EOP ELEV	RES NO.4 LEVEL	RES NO.4 CASE	RES NO.4 OUTFLOW	RES NO.4 DIVERSIO	C.P. 213 DIVERSIO	C.P. 213 MIN DESI	C.P. 213 DEQ-SHOR	C.P. 213 FLOW REG
91	1	4	35	1		71500.00	1424.31	3.00	0.03	435.01	114.31	-22.86	400.00	0.00	457.87
92	1	5	35	1		65193.09	1419.06	2.91	213.00	377.14	114.31	-22.86	400.00	0.00	400.00
93	1	6	35	1		71500.00	1424.31	3.00	0.03	962.58	109.06	-21.81	400.00	0.00	984.39
94	1	7	35	1		56829.99	1412.10	2.79	213.00	377.14	114.31	-22.86	400.00	0.00	400.00
95	1	8	35	1		38742.21	1393.40	2.53	213.00	379.58	102.10	-20.42	400.00	0.00	400.00
96	1	9	35	1		21620.41	1370.30	2.28	213.00	383.32	83.40	-16.68	400.00	0.00	400.00
97	1	10	35	1		47642.85	1402.90	2.66	213.00	387.94	60.30	-12.06	400.00	0.00	400.00
98	1	11	35	1		61121.84	1415.68	2.85	213.00	381.42	92.90	-18.58	400.00	0.00	400.00
99	1	12	35	1		69258.35	1422.44	2.97	213.00	378.86	105.68	-21.14	400.00	0.00	400.00
100	1	1	36	1		59641.78	1414.44	2.83	213.00	377.51	112.44	-22.49	400.00	0.00	400.00
101	1	2	36	1		71500.00	1424.31	3.00	0.03	2786.09	104.44	-20.89	400.00	0.00	2806.98
102	1	3	36	1		71500.00	1424.31	3.00	0.03	709.24	114.31	-22.86	400.00	0.00	732.10
103	1	4	36	1		63566.69	1417.71	2.89	213.00	377.14	114.31	-22.86	400.00	0.00	400.00
104	1	5	36	1		50198.59	1405.62	2.69	213.00	378.46	107.71	-21.54	400.00	0.00	400.00
105	1	6	36	1		29367.81	1381.25	2.39	213.00	380.88	95.62	-19.12	400.00	0.00	400.00
106	1	7	36	1		5286.21	1324.31	2.05	213.00	385.75	71.25	-14.25	400.00	0.00	400.00
107	1	8	36	1		828.61	1283.50	1.31	213.00	96.11	19.45	-3.89	400.00	300.00	100.00
108	1	9	36	1		2000.00	1300.00	2.00	213.00	120.31	0.00	0.00	400.00	279.69	120.31
109	1	10	36	1		2000.00	1300.00	2.00	213.00	171.94	0.00	0.00	400.00	228.06	171.94
110	1	11	36	1		11568.99	1348.30	2.14	213.00	400.00	0.00	0.00	400.00	0.00	400.00
111	1	12	36	1		46947.09	1402.15	2.65	213.00	392.27	38.64	-7.73	400.00	0.00	400.00
112	1	1	37	1		70783.86	1423.71	2.99	213.00	381.57	92.15	-18.43	400.00	0.00	400.00
113	1	2	37	1		71500.00	1424.31	3.00	0.03	555.36	113.71	-22.74	400.00	0.00	578.10
114	1	3	37	1		71500.00	1424.31	3.00	0.03	1171.24	114.31	-22.86	400.00	0.00	1194.10
115	1	4	37	1		71500.00	1424.31	3.00	0.03	683.01	114.31	-22.86	400.00	0.00	705.87
116	1	5	37	1		63716.90	1417.83	2.89	213.00	377.14	114.31	-22.86	400.00	0.00	400.00
117	1	6	37	1		50880.41	1406.35	2.70	213.00	378.43	107.83	-21.57	400.00	0.00	400.00
118	1	7	37	1		41202.33	1396.02	2.56	213.00	380.73	96.35	-19.27	400.00	0.00	400.00
119	1	8	37	1		26174.60	1376.73	2.35	213.00	382.80	86.02	-17.20	400.00	0.00	400.00
120	1	9	37	1		44001.72	1399.01	2.60	213.00	386.65	66.73	-13.35	400.00	0.00	400.00
					SUM =	5434295.34	166807.02	311.74	18319.02	57110.53	9858.78	-1971.76	48000.00	2791.12	59082.29
					MAX =	71500.00	1424.31	3.00	213.00	2786.09	114.31	0.00	400.00	300.00	2806.98
					MIN =	521.71	1277.97	1.13	0.03	96.11	0.00	-22.86	400.00	0.00	100.00
					PMAX=	101.00	1.00	1.00	10.00	101.00	102.00	37.00	1.00	37.00	101.00
					AVG =	45285.79	1390.06	2.60	152.66	475.92	82.16	-16.43	400.00	23.26	492.35
					PMIN=	37.00	37.00	37.00	1.00	107.00	37.00	102.00	1.00	1.00	37.00

RUN16 - SUMMARY OUTPUT

SUMMARY BY PERIOD FLOOD= 1

LOC NO=					4.	4.	4.	4.	4.	4.	213.	4.	4.	213.
CODE=					4.110	4.220	4.130	4.120	4.100	4.030	213.030	4.050	4.060	213.040
PER	DY	MO	YR	DW	RES NO.4 EOP STOR	RES NO.4 EOP ELEV	RES NO.4 LEVEL	RES NO.4 CASE	RES NO.4 OUTFLOW	RES NO.4 DIVERSIO	C.P. 213 DIVERSIO	RES NO.4 MIN DESI	RES NO.4 DEQ-SHOR	C.P. 213 FLOW REQ
1	0	10	27	1	71500.00	1424.31	3.00	0.03	400.00	821.09	-164.22	400.00	0.00	564.22
2	0	11	27	1	71500.00	1424.31	3.00	0.03	400.00	872.75	-174.55	400.00	0.00	574.55
3	0	12	27	1	71500.00	1424.31	3.00	0.03	400.00	101.16	-20.23	400.00	0.00	420.23
4	0	1	28	1	71500.00	1424.31	3.00	0.03	400.00	335.78	-67.16	400.00	0.00	467.16
5	0	2	28	1	71500.00	1424.31	3.00	0.03	400.00	249.88	-49.98	400.00	0.00	449.98
6	0	3	28	1	71500.00	1424.31	3.00	0.03	417.00	971.55	-194.31	400.00	0.00	611.31
7	0	4	28	1	71500.00	1424.31	3.00	0.03	400.00	603.32	-120.66	400.00	0.00	520.66
8	0	5	28	1	71500.00	1424.31	3.00	0.03	400.00	965.91	-193.18	400.00	0.00	593.18
9	0	6	28	1	71500.00	1424.31	3.00	0.03	400.00	908.65	-181.73	400.00	0.00	581.73
10	0	7	28	1	69097.74	1422.31	2.97	0.00	400.00	0.00	0.00	400.00	0.00	400.00
11	0	8	28	1	61882.20	1416.31	2.86	0.00	400.00	0.00	0.00	400.00	0.00	400.00
12	0	9	28	1	48551.32	1403.86	2.67	0.00	400.00	0.00	0.00	400.00	0.00	400.00
13	0	10	28	1	35784.87	1390.24	2.49	0.00	400.00	0.00	0.00	400.00	0.00	400.00
14	0	11	28	1	27676.37	1378.86	2.37	0.00	400.00	0.00	0.00	400.00	0.00	400.00
15	0	12	28	1	32799.72	1386.10	2.44	0.00	400.00	0.00	0.00	400.00	0.00	400.00
16	0	1	29	1	34808.36	1388.94	2.47	0.00	400.00	0.00	0.00	400.00	0.00	400.00
17	0	2	29	1	71500.00	1424.31	3.00	0.03	400.00	71.71	-14.34	400.00	0.00	414.34
18	0	3	29	1	71500.00	1424.31	3.00	0.03	400.00	833.55	-166.71	400.00	0.00	566.71
19	0	4	29	1	71500.00	1424.31	3.00	0.03	400.00	414.32	-82.86	400.00	0.00	482.86
20	0	5	29	1	64359.51	1418.37	2.90	0.00	400.00	0.00	0.00	400.00	0.00	400.00
21	0	6	29	1	50289.35	1405.72	2.69	0.00	400.00	0.00	0.00	400.00	0.00	400.00
22	0	7	29	1	34957.29	1389.15	2.47	0.00	400.00	0.00	0.00	400.00	0.00	400.00
23	0	8	29	1	23174.91	1372.49	2.30	0.00	400.00	0.00	0.00	400.00	0.00	400.00
24	0	9	29	1	35550.77	1389.99	2.48	0.00	400.00	0.00	0.00	400.00	0.00	400.00
25	0	10	29	1	48671.01	1403.99	2.67	0.00	400.00	0.00	0.00	400.00	0.00	400.00
26	0	11	29	1	58000.50	1413.08	2.81	0.00	400.00	0.00	0.00	400.00	0.00	400.00
27	0	12	29	1	65853.36	1419.61	2.92	0.00	400.00	0.00	0.00	400.00	0.00	400.00
28	0	1	30	1	70629.70	1423.59	2.99	0.00	400.00	0.00	0.00	400.00	0.00	400.00
29	0	2	30	1	71500.00	1424.31	3.00	0.03	400.00	347.30	-69.46	400.00	0.00	469.46
30	0	3	30	1	71500.00	1424.31	3.00	0.03	400.00	494.55	-98.91	400.00	0.00	498.91
31	0	4	30	1	71500.00	1424.31	3.00	0.03	400.00	95.32	-19.06	400.00	0.00	419.06
32	0	5	30	1	71500.00	1424.31	3.00	0.03	400.00	175.91	-35.18	400.00	0.00	435.18
33	0	6	30	1	66598.73	1420.23	2.93	0.00	400.00	0.00	0.00	400.00	0.00	400.00
34	0	7	30	1	48508.55	1403.82	2.67	0.00	400.00	0.00	0.00	400.00	0.00	400.00
35	0	8	30	1	29721.25	1381.75	2.40	0.00	400.00	0.00	0.00	400.00	0.00	400.00
36	0	9	30	1	10381.21	1343.83	2.12	0.00	400.00	0.00	0.00	400.00	0.00	400.00
37	0	10	30	1	2000.00	1300.00	2.00	0.09	212.16	0.00	0.00	400.00	187.84	212.16
38	0	11	30	1	2000.00	1300.00	2.00	0.09	102.29	0.00	0.00	400.00	297.71	102.29
39	0	12	30	1	2000.00	1300.00	2.00	0.09	124.26	0.00	0.00	400.00	275.74	124.26
40	0	1	31	1	2000.00	1300.00	2.00	0.09	164.17	0.00	0.00	400.00	235.83	164.17
41	0	2	31	1	16976.57	1360.56	2.22	0.00	400.00	0.00	0.00	400.00	0.00	400.00
42	0	3	31	1	46493.66	1401.67	2.64	0.00	400.00	0.00	0.00	400.00	0.00	400.00

RUN16 (CONTINUED)

LOC NO=					4.	4.	4.	4.	4.	4.	213.	4.	4.	213.
PER	DY	MO	YR	DW	RES NO.4 EOP STOR	RES NO.4 EOP ELEV	RES NO.4 LEVEL	RES NO.4 CASE	RES NO.4 OUTFLOW	RES NO.4 DIVERSIO	C.P. 213 DIVERSIO	RES NO.4 MIN DESI	RES NO.4 DEQ-SHOR	C.P. 213 FLOW REQ
43	0	4	31	1	70753.35	1423.69	2.99	0.00	400.00	0.00	0.00	400.00	0.00	400.00
44	0	5	31	1	68779.06	1422.05	2.96	0.00	400.00	0.00	0.00	400.00	0.00	400.00
45	0	6	31	1	70006.95	1423.07	2.98	0.00	400.00	0.00	0.00	400.00	0.00	400.00
46	0	7	31	1	58131.38	1413.19	2.81	0.00	400.00	0.00	0.00	400.00	0.00	400.00
47	0	8	31	1	42484.77	1397.39	2.58	0.00	400.00	0.00	0.00	400.00	0.00	400.00
48	0	9	31	1	23084.88	1372.37	2.30	0.00	400.00	0.00	0.00	400.00	0.00	400.00
49	0	10	31	1	3392.06	1310.30	2.02	0.00	400.00	0.00	0.00	400.00	0.00	400.00
50	0	11	31	1	2000.00	1300.00	2.00	0.09	156.77	0.00	0.00	400.00	243.23	156.77
51	0	12	31	1	6641.80	1329.75	2.07	0.00	400.00	0.00	0.00	400.00	0.00	400.00
52	0	1	32	1	8702.98	1337.51	2.10	0.00	400.00	0.00	0.00	400.00	0.00	400.00
53	0	2	32	1	16227.14	1358.96	2.20	0.00	400.00	0.00	0.00	400.00	0.00	400.00
54	0	3	32	1	59778.64	1414.56	2.83	0.00	400.00	0.00	0.00	400.00	0.00	400.00
55	0	4	32	1	66318.68	1420.00	2.93	0.00	400.00	0.00	0.00	400.00	0.00	400.00
56	0	5	32	1	71500.00	1424.31	3.00	0.03	400.00	29.62	-5.92	400.00	0.00	405.92
57	0	6	32	1	64158.49	1418.20	2.89	0.00	400.00	0.00	0.00	400.00	0.00	400.00
58	0	7	32	1	47604.43	1402.85	2.66	0.00	400.00	0.00	0.00	400.00	0.00	400.00
59	0	8	32	1	27771.22	1378.99	2.37	0.00	400.00	0.00	0.00	400.00	0.00	400.00
60	0	9	32	1	29495.71	1381.43	2.40	0.00	400.00	0.00	0.00	400.00	0.00	400.00
61	0	10	32	1	71500.00	1424.31	3.00	0.03	400.00	121.18	-24.24	400.00	0.00	424.24
62	0	11	32	1	71500.00	1424.31	3.00	0.03	400.00	4.75	-0.95	400.00	0.00	400.95
63	0	12	32	1	71500.00	1424.31	3.00	0.03	400.00	42.16	-8.43	400.00	0.00	408.43
64	0	1	33	1	71500.00	1424.31	3.00	0.03	400.00	128.78	-25.76	400.00	0.00	425.76
65	0	2	33	1	71500.00	1424.31	3.00	0.03	400.00	511.98	-102.40	400.00	0.00	502.40
66	0	3	33	1	71500.00	1424.31	3.00	0.03	400.00	827.55	-165.51	400.00	0.00	565.51
67	0	4	33	1	71500.00	1424.31	3.00	0.03	400.00	259.32	-51.86	400.00	0.00	451.86
68	0	5	33	1	68357.52	1421.70	2.95	0.00	400.00	0.00	0.00	400.00	0.00	400.00
69	0	6	33	1	57205.49	1412.42	2.79	0.00	400.00	0.00	0.00	400.00	0.00	400.00
70	0	7	33	1	71500.00	1424.31	3.00	0.03	400.00	400.39	-80.08	400.00	0.00	480.08
71	0	8	33	1	71500.00	1424.31	3.00	0.03	400.00	837.70	-167.54	400.00	0.00	567.54
72	0	9	33	1	71500.00	1424.31	3.00	0.03	400.00	123.96	-24.79	400.00	0.00	424.79
73	0	10	33	1	70522.06	1423.50	2.99	0.00	400.00	0.00	0.00	400.00	0.00	400.00
74	0	11	33	1	68060.60	1421.45	2.95	0.00	400.00	0.00	0.00	400.00	0.00	400.00
75	0	12	33	1	71500.00	1424.31	3.00	0.03	400.00	260.15	-52.03	400.00	0.00	452.03
76	0	1	34	1	55607.15	1411.09	2.77	0.00	400.00	0.00	0.00	400.00	0.00	400.00
77	0	2	34	1	59022.99	1413.93	2.82	0.00	400.00	0.00	0.00	400.00	0.00	400.00
78	0	3	34	1	71500.00	1424.31	3.00	0.03	400.00	595.38	-119.08	400.00	0.00	519.08
79	0	4	34	1	71500.00	1424.31	3.00	0.03	400.00	154.32	-30.86	400.00	0.00	430.86
80	0	5	34	1	65835.70	1419.60	2.92	0.00	400.00	0.00	0.00	400.00	0.00	400.00
81	0	6	34	1	53611.24	1409.26	2.74	0.00	400.00	0.00	0.00	400.00	0.00	400.00
82	0	7	34	1	39572.73	1394.28	2.54	0.00	400.00	0.00	0.00	400.00	0.00	400.00
83	0	8	34	1	46550.80	1401.73	2.64	0.00	400.00	0.00	0.00	400.00	0.00	400.00
84	0	9	34	1	47977.34	1403.25	2.66	0.00	400.00	0.00	0.00	400.00	0.00	400.00
85	0	10	34	1	61459.48	1415.96	2.86	0.00	400.00	0.00	0.00	400.00	0.00	400.00
86	0	11	34	1	71500.00	1424.31	3.00	0.03	400.00	654.75	-130.95	400.00	0.00	530.95
87	0	12	34	1	71500.00	1424.31	3.00	0.03	400.00	170.16	-34.03	400.00	0.00	434.03
88	0	1	35	1	68839.94	1422.10	2.96	0.00	400.00	0.00	0.00	400.00	0.00	400.00
89	0	2	35	1	71500.00	1424.31	3.00	0.03	400.00	599.04	-119.81	400.00	0.00	519.81
90	0	3	35	1	71500.00	1424.31	3.00	0.03	400.00	366.55	-73.31	400.00	0.00	473.31

RUN16 (CONTINUED)

LOC NO=					4.	4.	4.	4.	4.	4.	213.	4.	4.	213.
PER	DY	MO	YR	DW	RES NO.4 EOP STOR	RES NO.4 EOP ELEV	RES NO.4 LEVEL	RES NO.4 CASE	RES NO.4 OUTFLOW	RES NO.4 DIVERSIO	C.P. 213 DIVERSIO	RES NO.4 MIN DESI	RES NO.4 DEQ-SHOR	C.P. 213 FLOW REQ
91	0	4	35	1	71500.00	1424.31	3.00	0.03	400.00	149.32	-29.86	400.00	0.00	429.86
92	0	5	35	1	70817.84	1423.74	2.99	0.00	400.00	0.00	0.00	400.00	0.00	400.00
93	0	6	35	1	71500.00	1424.31	3.00	0.03	400.00	766.18	-153.24	400.00	0.00	553.24
94	0	7	35	1	62454.81	1416.78	2.87	0.00	400.00	0.00	0.00	400.00	0.00	400.00
95	0	8	35	1	49393.21	1404.76	2.68	0.00	400.00	0.00	0.00	400.00	0.00	400.00
96	0	9	35	1	36241.12	1390.73	2.49	0.00	400.00	0.00	0.00	400.00	0.00	400.00
97	0	10	35	1	65220.60	1419.09	2.91	0.00	400.00	0.00	0.00	400.00	0.00	400.00
98	0	11	35	1	71500.00	1424.31	3.00	0.03	400.00	196.06	-39.21	400.00	0.00	439.21
99	0	12	35	1	71500.00	1424.31	3.00	0.03	400.00	217.16	-43.43	400.00	0.00	443.43
100	0	1	36	1	67424.34	1420.92	2.94	0.00	400.00	0.00	0.00	400.00	0.00	400.00
101	0	2	36	1	71500.00	1424.31	3.00	0.03	2071.36	954.59	-190.92	400.00	0.00	2262.28
102	0	3	36	1	71500.00	1424.31	3.00	0.03	400.00	423.55	-84.71	400.00	0.00	484.71
103	0	4	36	1	69016.18	1422.24	2.96	0.00	400.00	0.00	0.00	400.00	0.00	400.00
104	0	5	36	1	60951.50	1415.53	2.85	0.00	400.00	0.00	0.00	400.00	0.00	400.00
105	0	6	36	1	44677.76	1399.73	2.61	0.00	400.00	0.00	0.00	400.00	0.00	400.00
106	0	7	36	1	24114.33	1373.82	2.32	0.00	400.00	0.00	0.00	400.00	0.00	400.00
107	0	8	36	1	2175.54	1301.30	2.00	0.00	400.00	0.00	0.00	400.00	0.00	400.00
108	0	9	36	1	2000.00	1300.00	2.00	0.09	142.95	0.00	0.00	400.00	257.05	142.95
109	0	10	36	1	2000.00	1300.00	2.00	0.09	171.94	0.00	0.00	400.00	228.06	171.94
110	0	11	36	1	11568.99	1348.30	2.14	0.00	400.00	0.00	0.00	400.00	0.00	400.00
111	0	12	36	1	48850.74	1404.18	2.67	0.00	400.00	0.00	0.00	400.00	0.00	400.00
112	0	1	37	1	71500.00	1424.31	3.00	0.03	400.00	93.08	-18.62	400.00	0.00	418.62
113	0	2	37	1	71500.00	1424.31	3.00	0.03	400.00	281.98	-56.40	400.00	0.00	456.40
114	0	3	37	1	71500.00	1424.31	3.00	0.03	400.00	885.55	-177.11	400.00	0.00	577.11
115	0	4	37	1	71500.00	1424.31	3.00	0.03	400.00	397.32	-79.46	400.00	0.00	479.46
116	0	5	37	1	69341.65	1422.51	2.97	0.00	400.00	0.00	0.00	400.00	0.00	400.00
117	0	6	37	1	61642.09	1416.11	2.86	0.00	400.00	0.00	0.00	400.00	0.00	400.00
118	0	7	37	1	56711.52	1412.01	2.79	0.00	400.00	0.00	0.00	400.00	0.00	400.00
119	0	8	37	1	45922.93	1401.06	2.63	0.00	400.00	0.00	0.00	400.00	0.00	400.00
120	0	9	37	1	66926.41	1420.50	2.93	0.00	400.00	0.00	0.00	400.00	0.00	400.00
			SUM =		6480173.11	168291.95	329.79	1.95	47962.91	18715.29	-3743.06	48000.00	1725.45	51705.97
			MAX =		71500.00	1424.31	3.00	0.09	2071.36	971.55	0.00	400.00	297.71	2262.28
			MIN =		2000.00	1300.00	2.00	0.00	102.29	0.00	-194.31	400.00	0.00	102.29
			PMAX=		8.00	1.00	1.00	37.00	101.00	6.00	10.00	1.00	38.00	101.00
			AVG =		54001.44	1402.43	2.75	0.02	399.69	155.96	-31.19	400.00	14.38	430.88
			PMIN=		39.00	37.00	37.00	10.00	38.00	10.00	6.00	1.00	1.00	38.00

RUN17 - SUMMARY OUTPUT

SUMMARY BY PERIOD FLOOD= 1

LOC NO=					4.	4.	4.	4.	4.	4.	4.	213.	213.	213.
CODE=					4.240	4.110	4.220	4.130	4.120	4.100	4.030	213.030	213.060	213.040
PER	DY	MO	YR	DW	RES NO.4 LOCAL IN	RES NO.4 EOP STOR	RES NO.4 EOP ELEV	RES NO.4 LEVEL	RES NO.4 CASE	RES NO.4 OUTFLOW	RES NO.4 DIVERSIO	C.P. 213 DIVERSIO	C.P. 213 DEQ-SHOR	C.P. 213 FLOW REG
1	1	10	27	1	1222.00	71500.00	1424.31	3.00	0.03	1061.09	160.00	-32.00	0.00	1093.09
2	1	11	27	1	1268.00	71500.00	1424.31	3.00	0.03	1112.75	160.00	-32.00	0.00	1144.75
3	1	12	27	1	497.00	69847.40	1422.93	2.98	213.00	368.00	160.00	-32.00	0.00	400.00
4	1	1	28	1	733.00	71500.00	1424.31	3.00	0.03	548.88	160.00	-32.00	0.00	580.88
5	1	2	28	1	647.00	71500.00	1424.31	3.00	0.03	489.88	160.00	-32.00	0.00	521.88
6	1	3	28	1	1385.00	71500.00	1424.31	3.00	0.03	1228.55	160.00	-32.00	0.00	1260.55
7	1	4	28	1	999.00	71500.00	1424.31	3.00	0.03	843.32	160.00	-32.00	0.00	875.32
8	1	5	28	1	1365.00	71500.00	1424.31	3.00	0.03	1205.91	160.00	-32.00	0.00	1237.91
9	1	6	28	1	1308.00	71500.00	1424.31	3.00	0.03	1148.65	160.00	-32.00	0.00	1180.65
10	1	7	28	1	360.00	62011.95	1416.42	2.86	213.00	371.20	144.00	-28.80	0.00	400.00
11	1	8	28	1	282.00	49242.89	1404.60	2.68	213.00	377.44	112.80	-22.56	0.00	400.00
12	1	9	28	1	176.00	33018.00	1386.41	2.45	213.00	387.84	60.80	-12.16	0.00	400.00
13	1	10	28	1	193.00	16602.43	1359.76	2.21	213.00	385.12	74.40	-14.88	0.00	400.00
14	1	11	28	1	261.00	3427.16	1310.56	2.02	213.00	379.12	104.40	-20.88	0.00	400.00
15	1	12	28	1	481.00	2000.00	1300.00	2.00	213.00	344.54	160.00	-32.00	23.46	376.54
16	1	1	29	1	431.00	2000.00	1300.00	2.00	213.00	271.17	160.00	-32.00	96.83	303.17
17	1	2	29	1	1130.00	35500.59	1389.92	2.48	213.00	368.00	160.00	-32.00	0.00	400.00
18	1	3	29	1	1230.00	71500.00	1424.31	3.00	0.03	487.37	160.00	-32.00	0.00	519.37
19	1	4	29	1	810.00	71500.00	1424.31	3.00	0.03	654.32	160.00	-32.00	0.00	686.32
20	1	5	29	1	283.00	58789.36	1413.73	2.82	213.00	377.36	113.20	-22.64	0.00	400.00
21	1	6	29	1	163.00	42317.19	1397.21	2.58	213.00	389.92	50.40	-10.08	0.00	400.00
22	1	7	29	1	150.00	25012.15	1375.09	2.33	213.00	392.00	40.00	-8.00	0.00	400.00
23	1	8	29	1	208.00	9129.60	1339.12	2.10	213.00	383.36	83.20	-16.64	0.00	400.00
24	1	9	29	1	608.00	13889.44	1353.98	2.17	213.00	368.00	160.00	-32.00	0.00	400.00
25	1	10	29	1	614.00	19157.35	1365.20	2.25	213.00	368.00	160.00	-32.00	0.00	400.00
26	1	11	29	1	553.00	20765.62	1368.63	2.27	213.00	368.00	160.00	-32.00	0.00	400.00
27	1	12	29	1	524.00	20632.53	1368.34	2.27	213.00	368.00	160.00	-32.00	0.00	400.00
28	1	1	30	1	475.00	17443.48	1361.55	2.22	213.00	368.00	160.00	-32.00	0.00	400.00
29	1	2	30	1	760.00	30408.49	1382.72	2.41	213.00	368.00	160.00	-32.00	0.00	400.00
30	1	3	30	1	891.00	52877.33	1408.48	2.73	213.00	368.00	160.00	-32.00	0.00	400.00
31	1	4	30	1	491.00	50876.59	1406.35	2.70	213.00	368.00	160.00	-32.00	0.00	400.00
32	1	5	30	1	575.00	53810.53	1409.48	2.75	213.00	368.00	160.00	-32.00	0.00	400.00
33	1	6	30	1	317.00	42864.34	1397.80	2.59	213.00	374.64	126.80	-25.36	0.00	400.00
34	1	7	30	1	105.00	24563.22	1374.46	2.32	213.00	399.20	4.00	-0.80	0.00	400.00
35	1	8	30	1	94.00	5762.05	1326.44	2.05	213.00	400.00	0.00	0.00	0.00	400.00
36	1	9	30	1	75.00	2000.00	1300.00	2.00	213.00	138.22	0.00	0.00	261.78	138.22
37	1	10	30	1	76.00	521.71	1277.97	1.13	213.00	100.00	0.00	0.00	300.00	100.00
38	1	11	30	1	102.00	572.99	1279.76	1.16	213.00	99.68	1.60	-0.32	300.00	100.00
39	1	12	30	1	124.00	1113.65	1287.52	1.48	213.00	96.16	19.20	-3.84	300.00	100.00
40	1	1	31	1	164.00	2000.00	1300.00	2.00	213.00	98.53	51.20	-10.24	291.23	108.77
41	1	2	31	1	669.00	9856.35	1341.85	2.11	213.00	368.00	160.00	-32.00	0.00	400.00
42	1	3	31	1	878.00	31473.44	1384.22	2.42	213.00	368.00	160.00	-32.00	0.00	400.00

RUN17 (CONTINUED)

LOC NO=					4.	4.	4.	4.	4.	4.	4.	213.	213.	213.
PER	DY	MO	YR	DW	RES NO.4 LOCAL IN	RES NO.4 EOP STOR	RES NO.4 EOP ELEV	RES NO.4 LEVEL	RES NO.4 CASE	RES NO.4 OUTFLOW	RES NO.4 DIVERSIO	C.P. 213 DIVERSIO	C.P. 213 DEQ-SHOR	C.P. 213 FLOW REG
43	1	4	31	1	804.00	48066.89	1403.35	2.66	213.00	368.00	160.00	-32.00	0.00	400.00
44	1	5	31	1	367.00	38855.62	1393.52	2.53	213.00	370.64	146.80	-29.36	0.00	400.00
45	1	6	31	1	420.00	32453.11	1385.61	2.44	213.00	368.00	160.00	-32.00	0.00	400.00
46	1	7	31	1	206.00	16499.51	1359.54	2.21	213.00	383.52	82.40	-16.48	0.00	400.00
47	1	8	31	1	145.00	2000.00	1300.00	2.00	213.00	344.96	36.00	-7.20	47.84	352.16
48	1	9	31	1	74.00	452.77	1275.56	1.09	213.00	100.00	0.00	0.00	300.00	100.00
49	1	10	31	1	80.00	300.00	1270.23	1.00	0.07	82.46	0.00	0.00	317.54	82.46
50	1	11	31	1	133.00	1016.17	1286.14	1.42	213.00	94.72	26.40	-5.28	300.00	100.00
51	1	12	31	1	475.00	2000.00	1300.00	2.00	213.00	299.21	160.00	-32.00	68.79	331.21
52	1	1	32	1	433.00	2000.00	1300.00	2.00	213.00	273.17	160.00	-32.00	94.83	305.17
53	1	2	32	1	530.00	2125.56	1300.93	2.00	213.00	368.00	160.00	-32.00	0.00	400.00
54	1	3	32	1	1106.00	37758.95	1392.35	2.51	213.00	368.00	160.00	-32.00	0.00	400.00
55	1	4	32	1	506.00	36613.32	1391.12	2.50	213.00	368.00	160.00	-32.00	0.00	400.00
56	1	5	32	1	513.00	35726.00	1390.18	2.49	213.00	368.00	160.00	-32.00	0.00	400.00
57	1	6	32	1	276.00	23113.12	1372.41	2.30	213.00	377.92	110.40	-22.08	0.00	400.00
58	1	7	32	1	130.00	5348.91	1324.77	2.05	213.00	395.20	24.00	-4.80	0.00	400.00
59	1	8	32	1	77.00	2000.00	1300.00	2.00	213.00	131.54	0.00	0.00	268.46	131.54
60	1	9	32	1	429.00	2000.00	1300.00	2.00	213.00	269.00	160.00	-32.00	99.00	301.00
61	1	10	32	1	1205.00	43601.37	1398.58	2.60	213.00	368.00	160.00	-32.00	0.00	400.00
62	1	11	32	1	400.00	36172.21	1390.65	2.49	213.00	368.00	160.00	-32.00	0.00	400.00
63	1	12	32	1	438.00	30790.70	1383.26	2.41	213.00	368.00	160.00	-32.00	0.00	400.00
64	1	1	33	1	526.00	30764.19	1383.22	2.41	213.00	368.00	160.00	-32.00	0.00	400.00
65	1	2	33	1	909.00	52036.43	1407.58	2.72	213.00	368.00	160.00	-32.00	0.00	400.00
66	1	3	33	1	1224.00	71500.00	1424.31	3.00	0.03	750.62	160.00	-32.00	0.00	782.62
67	1	4	33	1	655.00	71500.00	1424.31	3.00	0.03	499.32	160.00	-32.00	0.00	531.32
68	1	5	33	1	348.00	61508.00	1416.00	2.86	213.00	372.16	139.20	-27.84	0.00	400.00
69	1	6	33	1	212.00	46315.30	1401.48	2.64	213.00	383.04	84.80	-16.96	0.00	400.00
70	1	7	33	1	1032.00	71500.00	1424.31	3.00	0.03	463.23	160.00	-32.00	0.00	495.23
71	1	8	33	1	1237.00	71500.00	1424.31	3.00	0.03	1077.70	160.00	-32.00	0.00	1109.70
72	1	9	33	1	524.00	71259.83	1424.11	3.00	213.00	368.00	160.00	-32.00	0.00	400.00
73	1	10	33	1	385.00	62709.05	1417.00	2.87	213.00	369.20	154.00	-30.80	0.00	400.00
74	1	11	33	1	354.00	53471.12	1409.12	2.74	213.00	371.68	141.60	-28.32	0.00	400.00
75	1	12	33	1	712.00	65005.53	1418.91	2.91	213.00	368.00	160.00	-32.00	0.00	400.00
76	1	1	34	1	139.00	47563.91	1402.81	2.66	213.00	393.76	31.20	-6.24	0.00	400.00
77	1	2	34	1	459.00	43851.13	1398.85	2.60	213.00	368.00	160.00	-32.00	0.00	400.00
78	1	3	34	1	1195.00	71500.00	1424.31	3.00	0.03	588.34	160.00	-32.00	0.00	620.34
79	1	4	34	1	550.00	71500.00	1424.31	3.00	0.03	394.32	160.00	-32.00	0.00	426.32
80	1	5	34	1	307.00	59793.16	1414.57	2.83	213.00	375.44	122.80	-24.56	0.00	400.00
81	1	6	34	1	194.00	43985.59	1398.99	2.60	213.00	384.96	75.20	-15.04	0.00	400.00
82	1	7	34	1	171.00	27146.69	1378.11	2.36	213.00	388.64	56.80	-11.36	0.00	400.00
83	1	8	34	1	513.00	26246.58	1376.84	2.35	213.00	368.00	160.00	-32.00	0.00	400.00
84	1	9	34	1	424.00	20057.04	1367.12	2.26	213.00	368.00	160.00	-32.00	0.00	400.00
85	1	10	34	1	620.00	25687.59	1376.05	2.34	213.00	368.00	160.00	-32.00	0.00	400.00
86	1	11	34	1	1219.00	67011.16	1420.58	2.94	213.00	368.00	160.00	-32.00	0.00	400.00
87	1	12	34	1	566.00	69594.42	1422.72	2.97	213.00	368.00	160.00	-32.00	0.00	400.00
88	1	1	35	1	354.00	59958.55	1414.71	2.83	213.00	371.68	141.60	-28.32	0.00	400.00
89	1	2	35	1	1044.00	71500.00	1424.31	3.00	0.03	678.98	160.00	-32.00	0.00	710.98
90	1	3	35	1	763.00	71500.00	1424.31	3.00	0.03	606.55	160.00	-32.00	0.00	638.55

RUN17 (CONTINUED)

LOC NO=					4.	4.	4.	4.	4.	4.	4.	213.	213.	213.
PER	DY	MO	YR	DW	RES NO.4 LOCAL IN	RES NO.4 EOP STOR	RES NO.4 EOP ELEV	RES NO.4 LEVEL	RES NO.4 CASE	RES NO.4 OUTFLOW	RES NO.4 DIVERSIO	C.P. 213 DIVERSIO	C.P. 213 DEQ-SHOR	C.P. 213 FLOW REG
91	1	4	35	1	545.00	71500.00	1424.31	3.00	0.03	389.32	160.00	-32.00	0.00	421.32
92	1	5	35	1	388.00	63181.02	1417.39	2.88	213.00	368.96	155.20	-31.04	0.00	400.00
93	1	6	35	1	1177.00	71500.00	1424.31	3.00	0.03	877.82	160.00	-32.00	0.00	909.82
94	1	7	35	1	252.00	57494.75	1412.66	2.80	213.00	379.84	100.80	-20.16	0.00	400.00
95	1	8	35	1	187.00	41006.53	1395.81	2.56	213.00	386.08	69.60	-13.92	0.00	400.00
96	1	9	35	1	179.00	24846.09	1374.86	2.33	213.00	387.36	63.20	-12.64	0.00	400.00
97	1	10	35	1	872.00	45963.56	1401.10	2.63	213.00	368.00	160.00	-32.00	0.00	400.00
98	1	11	35	1	697.00	56238.86	1411.61	2.78	213.00	368.00	160.00	-32.00	0.00	400.00
99	1	12	35	1	613.00	61685.12	1416.14	2.86	213.00	368.00	160.00	-32.00	0.00	400.00
100	1	1	36	1	331.00	51071.36	1406.55	2.71	213.00	373.52	132.40	-26.48	0.00	400.00
101	1	2	36	1	3094.00	71500.00	1424.31	3.00	0.03	2581.40	160.00	-32.00	0.00	2613.40
102	1	3	36	1	820.00	71500.00	1424.31	3.00	0.03	663.55	160.00	-32.00	0.00	695.55
103	1	4	36	1	354.00	62265.66	1416.63	2.87	213.00	371.68	141.60	-28.32	0.00	400.00
104	1	5	36	1	268.00	48921.81	1404.26	2.68	213.00	378.56	107.20	-21.44	0.00	400.00
105	1	6	36	1	126.00	31653.09	1384.48	2.43	213.00	395.84	20.80	-4.16	0.00	400.00
106	1	7	36	1	65.00	11080.81	1346.46	2.13	213.00	400.00	0.00	0.00	0.00	400.00
107	1	8	36	1	43.00	2000.00	1300.00	2.00	213.00	190.80	0.00	0.00	209.20	190.80
108	1	9	36	1	140.00	2000.00	1300.00	2.00	213.00	108.00	32.00	-6.40	285.60	114.40
109	1	10	36	1	172.00	2000.00	1300.00	2.00	213.00	114.34	57.60	-11.52	274.14	125.86
110	1	11	36	1	560.00	3928.26	1314.26	2.03	213.00	368.00	160.00	-32.00	0.00	400.00
111	1	12	36	1	1004.00	33299.21	1386.80	2.45	213.00	368.00	160.00	-32.00	0.00	400.00
112	1	1	37	1	859.00	53771.43	1409.44	2.74	213.00	368.00	160.00	-32.00	0.00	400.00
113	1	2	37	1	679.00	62298.12	1416.65	2.87	213.00	368.00	160.00	-32.00	0.00	400.00
114	1	3	37	1	1282.00	71500.00	1424.31	3.00	0.03	975.71	160.00	-32.00	0.00	1007.71
115	1	4	37	1	793.00	71500.00	1424.31	3.00	0.03	637.32	160.00	-32.00	0.00	669.32
116	1	5	37	1	364.00	62177.21	1416.55	2.87	213.00	370.88	145.60	-29.12	0.00	400.00
117	1	6	37	1	270.00	49332.16	1404.70	2.68	213.00	378.40	108.00	-21.60	0.00	400.00
118	1	7	37	1	319.00	38115.55	1392.73	2.52	213.00	374.48	127.60	-25.52	0.00	400.00
119	1	8	37	1	224.00	22910.22	1372.12	2.30	213.00	382.08	89.60	-17.92	0.00	400.00
120	1	9	37	1	753.00	36297.66	1390.79	2.49	213.00	368.00	160.00	-32.00	0.00	400.00
			SUM =		66490.00	4781885.80	165752.86	300.75	20235.79	52344.11	14750.40	-2950.08	3838.70	55294.19
			MAX =		3094.00	71500.00	1424.31	3.00	213.00	2581.40	160.00	0.00	317.54	2613.40
			MIN =		43.00	300.00	1270.23	1.00	0.03	82.46	0.00	-32.00	0.00	82.46
			PMAX=		101.00	2.00	1.00	1.00	3.00	101.00	1.00	35.00	49.00	101.00
			AVG =		554.08	39849.05	1381.27	2.51	168.63	436.20	122.92	-24.58	31.99	460.78
			PMIN=		107.00	49.00	49.00	49.00	1.00	49.00	35.00	1.00	1.00	49.00

RUN18 - SUMMARY OUTPUT

SUMMARY BY PERIOD FLOOD= 8

LOC NO=					4.	4.	4.	4.	4.	4.	4.	213.
CODE=					4.110	4.130	4.120	4.090	4.100	4.050	4.060	213.040
PER	DY	MO	YR	DW	RES NO.4 EOP STOR	RES NO.4 LEVEL	RES NO.4 CASE	RES NO.4 INFLOW	RES NO.4 OUTFLOW	RES NO.4 MIN DESI	RES NO.4 DEQ-SHOR	C.P. 213 FLOW REG
1	1	10	27	1	643928.69	3.00	0.03	1222.00	1220.44	400.00	0.00	1220.44
2	1	11	27	1	643928.69	3.00	0.03	1268.00	1276.14	400.00	0.00	1276.14
3	1	12	27	1	643928.69	3.00	0.03	497.00	504.13	400.00	0.00	504.13
4	1	1	28	1	643928.69	3.00	0.03	733.00	737.76	400.00	0.00	737.76
5	1	2	28	1	643928.69	3.00	0.03	647.00	651.93	400.00	0.00	651.93
6	1	3	28	1	643928.69	3.00	0.03	1385.00	1391.08	400.00	0.00	1391.08
7	1	4	28	1	643928.69	3.00	0.03	999.00	1006.39	400.00	0.00	1006.39
8	1	5	28	1	643928.69	3.00	0.03	1365.00	1366.56	400.00	0.00	1366.56
9	1	6	28	1	643928.69	3.00	0.03	1308.00	1309.11	400.00	0.00	1309.11
10	1	7	28	1	641568.04	3.00	0.00	360.00	400.00	400.00	0.00	400.00
11	1	8	28	1	634383.94	2.99	0.00	282.00	400.00	400.00	0.00	400.00
12	1	9	28	1	621051.43	2.96	0.00	176.00	400.00	400.00	0.00	400.00
13	1	10	28	1	608241.89	2.94	0.00	193.00	400.00	400.00	0.00	400.00
14	1	11	28	1	600352.72	2.93	0.00	261.00	400.00	400.00	0.00	400.00
15	1	12	28	1	605675.53	2.94	0.00	481.00	400.00	400.00	0.00	400.00
16	1	1	29	1	607817.04	2.94	0.00	431.00	400.00	400.00	0.00	400.00
17	1	2	29	1	643928.69	3.00	0.03	1130.00	484.44	400.00	0.00	484.44
18	1	3	29	1	643928.69	3.00	0.03	1230.00	1236.08	400.00	0.00	1236.08
19	1	4	29	1	643928.69	3.00	0.03	810.00	817.39	400.00	0.00	817.39
20	1	5	29	1	636828.66	2.99	0.00	283.00	400.00	400.00	0.00	400.00
21	1	6	29	1	622787.68	2.97	0.00	163.00	400.00	400.00	0.00	400.00
22	1	7	29	1	607500.38	2.94	0.00	150.00	400.00	400.00	0.00	400.00
23	1	8	29	1	595751.48	2.93	0.00	208.00	400.00	400.00	0.00	400.00
24	1	9	29	1	608125.66	2.94	0.00	608.00	400.00	400.00	0.00	400.00
25	1	10	29	1	621202.78	2.96	0.00	614.00	400.00	400.00	0.00	400.00
26	1	11	29	1	630748.38	2.98	0.00	553.00	400.00	400.00	0.00	400.00
27	1	12	29	1	638791.85	2.99	0.00	524.00	400.00	400.00	0.00	400.00
28	1	1	30	1	643692.52	3.00	0.00	475.00	400.00	400.00	0.00	400.00
29	1	2	30	1	643928.69	3.00	0.03	760.00	760.85	400.00	0.00	760.85
30	1	3	30	1	643928.69	3.00	0.03	891.00	897.08	400.00	0.00	897.08
31	1	4	30	1	643928.69	3.00	0.03	491.00	498.39	400.00	0.00	498.39
32	1	5	30	1	643928.69	3.00	0.03	575.00	576.56	400.00	0.00	576.56
33	1	6	30	1	639055.30	2.99	0.00	317.00	400.00	400.00	0.00	400.00
34	1	7	30	1	621008.85	2.96	0.00	105.00	400.00	400.00	0.00	400.00
35	1	8	30	1	602254.76	2.94	0.00	94.00	400.00	400.00	0.00	400.00
36	1	9	30	1	582913.00	2.91	0.00	75.00	400.00	400.00	0.00	400.00
37	1	10	30	1	562933.91	2.87	0.00	76.00	400.00	400.00	0.00	400.00
38	1	11	30	1	545429.02	2.85	0.00	102.00	400.00	400.00	0.00	400.00
39	1	12	30	1	528620.58	2.82	0.00	124.00	400.00	400.00	0.00	400.00
40	1	1	31	1	514187.05	2.80	0.00	164.00	400.00	400.00	0.00	400.00
41	1	2	31	1	529202.65	2.82	0.00	669.00	400.00	400.00	0.00	400.00
42	1	3	31	1	558747.72	2.87	0.00	878.00	400.00	400.00	0.00	400.00

LOC NO=						4.	4.	4.	4.	4.	4.	4.	213.
PER	DY	MO	YR	DW		RES NO.4 EOP STOR	RES NO.4 LEVEL	RES NO.4 CASE	RES NO.4 INFLOW	RES NO.4 OUTFLOW	RES NO.4 MIN DESI	RES NO.4 DEQ-SHOR	C.P. 213 FLOW REG
43	1	4	31	1		583042.99	2.91	0.00	804.00	400.00	400.00	0.00	400.00
44	1	5	31	1		581076.30	2.90	0.00	367.00	400.00	400.00	0.00	400.00
45	1	6	31	1		582309.47	2.90	0.00	420.00	400.00	400.00	0.00	400.00
46	1	7	31	1		570441.96	2.89	0.00	206.00	400.00	400.00	0.00	400.00
47	1	8	31	1		554801.10	2.86	0.00	145.00	400.00	400.00	0.00	400.00
48	1	9	31	1		535400.93	2.83	0.00	74.00	400.00	400.00	0.00	400.00
49	1	10	31	1		515696.48	2.80	0.00	80.00	400.00	400.00	0.00	400.00
50	1	11	31	1		499862.25	2.78	0.00	133.00	400.00	400.00	0.00	400.00
51	1	12	31	1		504490.85	2.78	0.00	475.00	400.00	400.00	0.00	400.00
52	1	1	32	1		506544.93	2.79	0.00	433.00	400.00	400.00	0.00	400.00
53	1	2	32	1		514062.17	2.80	0.00	530.00	400.00	400.00	0.00	400.00
54	1	3	32	1		557608.98	2.87	0.00	1106.00	400.00	400.00	0.00	400.00
55	1	4	32	1		564142.71	2.88	0.00	506.00	400.00	400.00	0.00	400.00
56	1	5	32	1		571144.40	2.89	0.00	513.00	400.00	400.00	0.00	400.00
57	1	6	32	1		563802.73	2.88	0.00	276.00	400.00	400.00	0.00	400.00
58	1	7	32	1		547248.44	2.85	0.00	130.00	400.00	400.00	0.00	400.00
59	1	8	32	1		527415.08	2.82	0.00	77.00	400.00	400.00	0.00	400.00
60	1	9	32	1		529139.57	2.82	0.00	429.00	400.00	400.00	0.00	400.00
61	1	10	32	1		578592.99	2.90	0.00	1205.00	400.00	400.00	0.00	400.00
62	1	11	32	1		578898.84	2.90	0.00	400.00	400.00	400.00	0.00	400.00
63	1	12	32	1		581516.13	2.90	0.00	438.00	400.00	400.00	0.00	400.00
64	1	1	33	1		589460.73	2.92	0.00	526.00	400.00	400.00	0.00	400.00
65	1	2	33	1		617952.24	2.96	0.00	909.00	400.00	400.00	0.00	400.00
66	1	3	33	1		643928.69	3.00	0.03	1224.00	807.23	400.00	0.00	807.23
67	1	4	33	1		643928.69	3.00	0.03	655.00	662.39	400.00	0.00	662.39
68	1	5	33	1		640826.34	3.00	0.00	348.00	400.00	400.00	0.00	400.00
69	1	6	33	1		629702.92	2.98	0.00	212.00	400.00	400.00	0.00	400.00
70	1	7	33	1		643928.69	3.00	0.03	1032.00	802.21	400.00	0.00	802.21
71	1	8	33	1		643928.69	3.00	0.03	1237.00	1238.20	400.00	0.00	1238.20
72	1	9	33	1		643928.69	3.00	0.03	524.00	523.94	400.00	0.00	523.94
73	1	10	33	1		642910.85	3.00	0.00	385.00	400.00	400.00	0.00	400.00
74	1	11	33	1		640652.96	2.99	0.00	354.00	400.00	400.00	0.00	400.00
75	1	12	33	1		643928.69	3.00	0.03	712.00	665.80	400.00	0.00	665.80
76	1	1	34	1		628161.85	2.98	0.00	139.00	400.00	400.00	0.00	400.00
77	1	2	34	1		631702.72	2.98	0.00	459.00	400.00	400.00	0.00	400.00
78	1	3	34	1		643928.69	3.00	0.03	1195.00	1002.07	400.00	0.00	1002.07
79	1	4	34	1		643928.69	3.00	0.03	550.00	557.39	400.00	0.00	557.39
80	1	5	34	1		638304.73	2.99	0.00	307.00	400.00	400.00	0.00	400.00
81	1	6	34	1		626109.21	2.97	0.00	194.00	400.00	400.00	0.00	400.00
82	1	7	34	1		612115.34	2.95	0.00	171.00	400.00	400.00	0.00	400.00
83	1	8	34	1		619126.57	2.96	0.00	513.00	400.00	400.00	0.00	400.00
84	1	9	34	1		620551.45	2.96	0.00	424.00	400.00	400.00	0.00	400.00
85	1	10	34	1		633991.03	2.98	0.00	620.00	400.00	400.00	0.00	400.00
86	1	11	34	1		643928.69	3.00	0.03	1219.00	1059.94	400.00	0.00	1059.94
87	1	12	34	1		643928.69	3.00	0.03	566.00	573.13	400.00	0.00	573.13
88	1	1	35	1		641391.26	3.00	0.00	354.00	400.00	400.00	0.00	400.00

RUN18 (CONTINUED)

LOC NO=						4.	4.	4.	4.	4.	4.	4.	213.
PER	DY	MO	YR	DW		RES NO.4 EOP STOR	RES NO.4 LEVEL	RES NO.4 CASE	RES NO.4 INFLOW	RES NO.4 OUTFLOW	RES NO.4 MIN DESI	RES NO.4 DEQ-SHOR	C.P. 213 FLOW REG
89	1	2	35	1		643928.69	3.00	0.03	1044.00	1003.39	400.00	0.00	1003.39
90	1	3	35	1		643928.69	3.00	0.03	763.00	769.08	400.00	0.00	769.08
91	1	4	35	1		643928.69	3.00	0.03	545.00	552.39	400.00	0.00	552.39
92	1	5	35	1		643286.42	3.00	0.00	388.00	400.00	400.00	0.00	400.00
93	1	6	35	1		643928.69	3.00	0.03	1177.00	1167.32	400.00	0.00	1167.32
94	1	7	35	1		634925.68	2.99	0.00	252.00	400.00	400.00	0.00	400.00
95	1	8	35	1		621896.66	2.97	0.00	187.00	400.00	400.00	0.00	400.00
96	1	9	35	1		608742.91	2.95	0.00	179.00	400.00	400.00	0.00	400.00
97	1	10	35	1		637679.63	2.99	0.00	872.00	400.00	400.00	0.00	400.00
98	1	11	35	1		643928.69	3.00	0.03	697.00	600.00	400.00	0.00	600.00
99	1	12	35	1		643928.69	3.00	0.03	613.00	620.13	400.00	0.00	620.13
100	1	1	36	1		639976.02	2.99	0.00	331.00	400.00	400.00	0.00	400.00
101	1	2	36	1		643928.69	3.00	0.03	3094.00	3030.17	400.00	0.00	3030.17
102	1	3	36	1		643928.69	3.00	0.03	820.00	826.08	400.00	0.00	826.08
103	1	4	36	1		641629.18	3.00	0.00	354.00	400.00	400.00	0.00	400.00
104	1	5	36	1		633605.55	2.98	0.00	268.00	400.00	400.00	0.00	400.00
105	1	6	36	1		617361.41	2.96	0.00	126.00	400.00	400.00	0.00	400.00
106	1	7	36	1		596842.92	2.93	0.00	65.00	400.00	400.00	0.00	400.00
107	1	8	36	1		574941.28	2.89	0.00	43.00	400.00	400.00	0.00	400.00
108	1	9	36	1		559467.94	2.87	0.00	140.00	400.00	400.00	0.00	400.00
109	1	10	36	1		545404.53	2.85	0.00	172.00	400.00	400.00	0.00	400.00
110	1	11	36	1		555141.96	2.86	0.00	560.00	400.00	400.00	0.00	400.00
111	1	12	36	1		592543.71	2.92	0.00	1004.00	400.00	400.00	0.00	400.00
112	1	1	37	1		621002.35	2.96	0.00	859.00	400.00	400.00	0.00	400.00
113	1	2	37	1		636760.06	2.99	0.00	679.00	400.00	400.00	0.00	400.00
114	1	3	37	1		643928.69	3.00	0.03	1282.00	1171.39	400.00	0.00	1171.39
115	1	4	37	1		643928.69	3.00	0.03	793.00	800.39	400.00	0.00	800.39
116	1	5	37	1		641810.38	3.00	0.00	364.00	400.00	400.00	0.00	400.00
117	1	6	37	1		634139.12	2.98	0.00	270.00	400.00	400.00	0.00	400.00
118	1	7	37	1		629252.06	2.98	0.00	319.00	400.00	400.00	0.00	400.00
119	1	8	37	1		618496.39	2.96	0.00	224.00	400.00	400.00	0.00	400.00
120	1	9	37	1		639498.24	2.99	0.00	753.00	400.00	400.00	0.00	400.00
					SUM =	73274909.54	353.79	1.08	66490.00	66766.96	48000.00	0.00	66766.96
					MAX =	643928.69	3.00	0.03	3094.00	3030.17	400.00	0.00	3030.17
					MIN =	499862.25	2.78	0.00	43.00	400.00	400.00	0.00	400.00
					PMAX=	4.00	4.00	1.00	101.00	101.00	1.00	1.00	101.00
					AVG =	610624.25	2.95	0.01	554.08	556.39	400.00	0.00	556.39
					PMIN=	50.00	50.00	10.00	107.00	10.00	1.00	1.00	10.00

RUN19 - SUMMARY OUTPUT

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 YIELD DETERMINED BY OPTIMIZATION
 RES-LOC   TYPE-OPT  OPT. VALUES
     4        2      257.      239.      233.      245.      257.      280.
                     292.      303.      315.      321.      309.      286.
NEW CRITICAL PERIOD=   -33.046     0.050     0.004

*OPSUM
                    T1            SINGLE RESERVOIR WATER SUPPLY SYSTEM
                    T2            * OPTIMIZATION OF MONTHLY DESIRED FLOW *    RUN 19
                    T3            MONTHLY FLOW 1927-1937 RECORD  (120 PERIODS)

                    J7  4.20    0.00    0.00    0.00    0.00    0.00    0.00    2.00    6.00    0.05
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LOCATION	TRIAL	ERROR RATIO	ERROR (STG)	NUM. PERIODS	ROUTING ST PER	AVG INF.	AVG REL	AVG SPILL	TOP.CON STOR.	RATIO STG/Q	DRAW ST PER	DRAW LENGTH	DRAW AV REL LOC=	ANNUAL DES Q 4	ANNUAL REQ Q 4	ANNUAL DIV 4
SINGLE RES	1	2.3803	-165430.	27	1929.10	377.	518.	48.	71500.	0.1731	1930.06	18.	482.	477.	100.	0.
SINGLE RES	2	0.3568	-24798.	27	1929.10	377.	414.	89.	71500.	0.1731	1930.06	8.	326.	329.	100.	0.
SINGLE RES	3	0.0041	-283.	27	1929.10	377.	397.	123.	71500.	0.1731	1930.07	7.	270.	278.	100.	0.
SINGLE RES	1	0.0041	-283.	120	1927.10	554.	556.	277.	71500.	0.1731	1930.07	7.	270.	278.	100.	0.

RUN19 (CONTINUED)

SUMMARY BY PERIOD FLOOD= 4

LOC NO=					4.	4.	4.	4.	4.	4.	4.	4.	213.	
CODE=					4.110	4.120	4.090	4.100	4.050	4.060	4.070	4.080	213.040	0.000
PER	DY	MO	YR	DW	RES NO.4 EOP STOR	RES NO.4 CASE	RES NO.4 INFLOW	RES NO.4 OUTFLOW	RES NO.4 MIN DESI	RES NO.4 DEQ-SHOR	RES NO.4 MIN REQU	RES NO.4 REQ-SHOR	C.P. 213 FLOW REQ	
1	1	10	27	1	571500.00	0.03	1222.00	1221.09	256.67	0.00	100.00	0.00	1221.09	
2	1	11	27	1	571500.00	0.03	1268.00	1272.75	239.17	0.00	100.00	0.00	1272.75	
3	1	12	27	1	571500.00	0.03	497.00	501.16	233.34	0.00	100.00	0.00	501.16	
4	1	1	28	1	571500.00	0.03	733.00	735.78	245.01	0.00	100.00	0.00	735.78	
5	1	2	28	1	571500.00	0.03	647.00	649.88	256.67	0.00	100.00	0.00	649.88	
6	1	3	28	1	571500.00	0.03	1385.00	1388.55	280.01	0.00	100.00	0.00	1388.55	
7	1	4	28	1	571500.00	0.03	999.00	1003.32	291.68	0.00	100.00	0.00	1003.32	
8	1	5	28	1	571500.00	0.03	1365.00	1365.91	303.34	0.00	100.00	0.00	1365.91	
9	1	6	28	1	571500.00	0.03	1308.00	1308.65	315.01	0.00	100.00	0.00	1308.65	
10	1	7	28	1	571500.00	0.03	360.00	360.94	320.84	0.00	100.00	0.00	360.94	
11	1	8	28	1	569871.59	0.00	282.00	309.18	309.18	0.00	100.00	0.00	309.18	
12	1	9	28	1	563333.39	0.00	176.00	285.84	285.84	0.00	100.00	0.00	285.84	
13	1	10	28	1	559368.61	0.00	193.00	256.67	256.67	0.00	100.00	0.00	256.67	
14	1	11	28	1	560913.93	0.00	261.00	239.17	239.17	0.00	100.00	0.00	239.17	
15	1	12	28	1	571500.00	0.03	481.00	312.75	233.34	0.00	100.00	0.00	312.75	
16	1	1	29	1	571500.00	0.03	431.00	433.78	245.01	0.00	100.00	0.00	433.78	
17	1	2	29	1	571500.00	0.03	1130.00	1132.98	256.67	0.00	100.00	0.00	1132.98	
18	1	3	29	1	571500.00	0.03	1230.00	1233.55	280.01	0.00	100.00	0.00	1233.55	
19	1	4	29	1	571500.00	0.03	810.00	814.32	291.68	0.00	100.00	0.00	814.32	
20	1	5	29	1	570304.69	0.00	283.00	303.34	303.34	0.00	100.00	0.00	303.34	
21	1	6	29	1	561295.57	0.00	163.00	315.01	315.01	0.00	100.00	0.00	315.01	
22	1	7	29	1	550838.62	0.00	150.00	320.84	320.84	0.00	100.00	0.00	320.84	
23	1	8	29	1	544649.31	0.00	208.00	309.18	309.18	0.00	100.00	0.00	309.18	
24	1	9	29	1	563817.57	0.00	608.00	285.84	285.84	0.00	100.00	0.00	285.84	
25	1	10	29	1	571500.00	0.03	614.00	488.19	256.67	0.00	100.00	0.00	488.19	
26	1	11	29	1	571500.00	0.03	553.00	557.75	239.17	0.00	100.00	0.00	557.75	
27	1	12	29	1	571500.00	0.03	524.00	528.16	233.34	0.00	100.00	0.00	528.16	
28	1	1	30	1	571500.00	0.03	475.00	477.78	245.01	0.00	100.00	0.00	477.78	
29	1	2	30	1	571500.00	0.03	760.00	762.98	256.67	0.00	100.00	0.00	762.98	
30	1	3	30	1	571500.00	0.03	891.00	894.55	280.01	0.00	100.00	0.00	894.55	
31	1	4	30	1	571500.00	0.03	491.00	495.32	291.68	0.00	100.00	0.00	495.32	
32	1	5	30	1	571500.00	0.03	575.00	575.91	303.34	0.00	100.00	0.00	575.91	
33	1	6	30	1	571500.00	0.03	317.00	317.65	315.01	0.00	100.00	0.00	317.65	
34	1	7	30	1	558281.85	0.00	105.00	320.84	320.84	0.00	100.00	0.00	320.84	
35	1	8	30	1	545084.53	0.00	94.00	309.18	309.18	0.00	100.00	0.00	309.18	
36	1	9	30	1	532536.96	0.00	75.00	285.84	285.84	0.00	100.00	0.00	285.84	
37	1	10	30	1	521398.48	0.00	76.00	256.67	256.67	0.00	100.00	0.00	256.67	
38	1	11	30	1	513342.24	0.00	102.00	239.17	239.17	0.00	100.00	0.00	239.17	
39	1	12	30	1	506678.56	0.00	124.00	233.34	233.34	0.00	100.00	0.00	233.34	
40	1	1	31	1	501717.17	0.00	164.00	245.01	245.01	0.00	100.00	0.00	245.01	
41	1	2	31	1	524665.60	0.00	669.00	256.67	256.67	0.00	100.00	0.00	256.67	
42	1	3	31	1	561586.91	0.00	878.00	280.01	280.01	0.00	100.00	0.00	280.01	

RUN19 (CONTINUED)

LOC NO=					4.	4.	4.	4.	4.	4.	4.	4.	213.
PER	DY	MO	YR	DW	RES NO.4 EOP STOR	RES NO.4 CASE	RES NO.4 INFLOW	RES NO.4 OUTFLOW	RES NO.4 MIN DESI	RES NO.4 DEQ-SHOR	RES NO.4 MIN REQU	RES NO.4 REQ-SHOR	C.P. 213 FLOW REQ
43	1	4	31	1	571500.00	0.03	804.00	641.49	291.68	0.00	100.00	0.00	641.49
44	1	5	31	1	571500.00	0.03	367.00	367.91	303.34	0.00	100.00	0.00	367.91
45	1	6	31	1	571500.00	0.03	420.00	420.65	315.01	0.00	100.00	0.00	420.65
46	1	7	31	1	564494.23	0.00	206.00	320.84	320.84	0.00	100.00	0.00	320.84
47	1	8	31	1	554436.44	0.00	145.00	309.18	309.18	0.00	100.00	0.00	309.18
48	1	9	31	1	541829.17	0.00	74.00	285.84	285.84	0.00	100.00	0.00	285.84
49	1	10	31	1	530930.58	0.00	80.00	256.67	256.67	0.00	100.00	0.00	256.67
50	1	11	31	1	524762.58	0.00	133.00	239.17	239.17	0.00	100.00	0.00	239.17
51	1	12	31	1	539770.68	0.00	475.00	233.34	233.34	0.00	100.00	0.00	233.34
52	1	1	32	1	551453.11	0.00	433.00	245.01	245.01	0.00	100.00	0.00	245.01
53	1	2	32	1	567318.16	0.00	530.00	256.67	256.67	0.00	100.00	0.00	256.67
54	1	3	32	1	571500.00	0.03	1106.00	1041.46	280.01	0.00	100.00	0.00	1041.46
55	1	4	32	1	571500.00	0.03	506.00	510.32	291.68	0.00	100.00	0.00	510.32
56	1	5	32	1	571500.00	0.03	513.00	513.91	303.34	0.00	100.00	0.00	513.91
57	1	6	32	1	569216.93	0.00	276.00	315.01	315.01	0.00	100.00	0.00	315.01
58	1	7	32	1	557535.01	0.00	130.00	320.84	320.84	0.00	100.00	0.00	320.84
59	1	8	32	1	543291.84	0.00	77.00	309.18	309.18	0.00	100.00	0.00	309.18
60	1	9	32	1	551808.85	0.00	429.00	285.84	285.84	0.00	100.00	0.00	285.84
61	1	10	32	1	571500.00	0.03	1205.00	883.95	256.67	0.00	100.00	0.00	883.95
62	1	11	32	1	571500.00	0.03	400.00	404.75	239.17	0.00	100.00	0.00	404.75
63	1	12	32	1	571500.00	0.03	438.00	442.16	233.34	0.00	100.00	0.00	442.16
64	1	1	33	1	571500.00	0.03	526.00	528.78	245.01	0.00	100.00	0.00	528.78
65	1	2	33	1	571500.00	0.03	909.00	911.98	256.67	0.00	100.00	0.00	911.98
66	1	3	33	1	571500.00	0.03	1224.00	1227.55	280.01	0.00	100.00	0.00	1227.55
67	1	4	33	1	571500.00	0.03	655.00	659.32	291.68	0.00	100.00	0.00	659.32
68	1	5	33	1	571500.00	0.03	348.00	348.91	303.34	0.00	100.00	0.00	348.91
69	1	6	33	1	565407.78	0.00	212.00	315.01	315.01	0.00	100.00	0.00	315.01
70	1	7	33	1	571500.00	0.03	1032.00	933.83	320.84	0.00	100.00	0.00	933.83
71	1	8	33	1	571500.00	0.03	1237.00	1237.70	309.18	0.00	100.00	0.00	1237.70
72	1	9	33	1	571500.00	0.03	524.00	523.96	285.84	0.00	100.00	0.00	523.96
73	1	10	33	1	571500.00	0.03	385.00	384.09	256.67	0.00	100.00	0.00	384.09
74	1	11	33	1	571500.00	0.03	354.00	358.75	239.17	0.00	100.00	0.00	358.75
75	1	12	33	1	571500.00	0.03	712.00	716.16	233.34	0.00	100.00	0.00	716.16
76	1	1	34	1	565146.60	0.00	139.00	245.01	245.01	0.00	100.00	0.00	245.01
77	1	2	34	1	571500.00	0.03	459.00	347.48	256.67	0.00	100.00	0.00	347.48
78	1	3	34	1	571500.00	0.03	1195.00	1198.55	280.01	0.00	100.00	0.00	1198.55
79	1	4	34	1	571500.00	0.03	550.00	554.32	291.68	0.00	100.00	0.00	554.32
80	1	5	34	1	571500.00	0.03	307.00	307.91	303.34	0.00	100.00	0.00	307.91
81	1	6	34	1	564336.46	0.00	194.00	315.01	315.01	0.00	100.00	0.00	315.01
82	1	7	34	1	555173.19	0.00	171.00	320.84	320.84	0.00	100.00	0.00	320.84
83	1	8	34	1	567744.14	0.00	513.00	309.18	309.18	0.00	100.00	0.00	309.18
84	1	9	34	1	571500.00	0.03	424.00	360.85	285.84	0.00	100.00	0.00	360.85
85	1	10	34	1	571500.00	0.03	620.00	619.09	256.67	0.00	100.00	0.00	619.09
86	1	11	34	1	571500.00	0.03	1219.00	1223.75	239.17	0.00	100.00	0.00	1223.75
87	1	12	34	1	571500.00	0.03	566.00	570.16	233.34	0.00	100.00	0.00	570.16
88	1	1	35	1	571500.00	0.03	354.00	356.78	245.01	0.00	100.00	0.00	356.78
89	1	2	35	1	571500.00	0.03	1044.00	1046.98	256.67	0.00	100.00	0.00	1046.98
90	1	3	35	1	571500.00	0.03	763.00	766.55	280.01	0.00	100.00	0.00	766.55

RUN19 (CONTINUED)

LOC NO=					4.	4.	4.	4.	4.	4.	4.	4.	213.
PER	DY	MO	YR	DW	RES NO.4 EOP STOR	RES NO.4 CASE	RES NO.4 INFLOW	RES NO.4 OUTFLOW	RES NO.4 MIN DESI	RES NO.4 DEQ-SHOR	RES NO.4 MIN REQU	RES NO.4 REQ-SHOR	C.P. 213 FLOW REQ
91	1	4	35	1	571500.00	0.03	545.00	549.32	291.68	0.00	100.00	0.00	549.32
92	1	5	35	1	571500.00	0.03	388.00	388.91	303.34	0.00	100.00	0.00	388.91
93	1	6	35	1	571500.00	0.03	1177.00	1177.65	315.01	0.00	100.00	0.00	1177.65
94	1	7	35	1	567323.63	0.00	252.00	320.84	320.84	0.00	100.00	0.00	320.84
95	1	8	35	1	559850.36	0.00	187.00	309.18	309.18	0.00	100.00	0.00	309.18
96	1	9	35	1	553490.92	0.00	179.00	285.84	285.84	0.00	100.00	0.00	285.84
97	1	10	35	1	571500.00	0.03	872.00	578.30	256.67	0.00	100.00	0.00	578.30
98	1	11	35	1	571500.00	0.03	697.00	701.75	239.17	0.00	100.00	0.00	701.75
99	1	12	35	1	571500.00	0.03	613.00	617.16	233.34	0.00	100.00	0.00	617.16
100	1	1	36	1	571500.00	0.03	331.00	333.78	245.01	0.00	100.00	0.00	333.78
101	1	2	36	1	571500.00	0.03	3094.00	3096.88	256.67	0.00	100.00	0.00	3096.88
102	1	3	36	1	571500.00	0.03	820.00	823.55	280.01	0.00	100.00	0.00	823.55
103	1	4	36	1	571500.00	0.03	354.00	358.32	291.68	0.00	100.00	0.00	358.32
104	1	5	36	1	569382.07	0.00	268.00	303.34	303.34	0.00	100.00	0.00	303.34
105	1	6	36	1	558170.38	0.00	126.00	315.01	315.01	0.00	100.00	0.00	315.01
106	1	7	36	1	542483.47	0.00	65.00	320.84	320.84	0.00	100.00	0.00	320.84
107	1	8	36	1	526142.72	0.00	43.00	309.18	309.18	0.00	100.00	0.00	309.18
108	1	9	36	1	517463.39	0.00	140.00	285.84	285.84	0.00	100.00	0.00	285.84
109	1	10	36	1	512238.61	0.00	172.00	256.67	256.67	0.00	100.00	0.00	256.67
110	1	11	36	1	531459.45	0.00	560.00	239.17	239.17	0.00	100.00	0.00	239.17
111	1	12	36	1	571500.00	0.03	1004.00	356.05	233.34	0.00	100.00	0.00	356.05
112	1	1	37	1	571500.00	0.03	859.00	861.78	245.01	0.00	100.00	0.00	861.78
113	1	2	37	1	571500.00	0.03	679.00	681.98	256.67	0.00	100.00	0.00	681.98
114	1	3	37	1	571500.00	0.03	1282.00	1285.55	280.01	0.00	100.00	0.00	1285.55
115	1	4	37	1	571500.00	0.03	793.00	797.32	291.68	0.00	100.00	0.00	797.32
116	1	5	37	1	571500.00	0.03	364.00	364.91	303.34	0.00	100.00	0.00	364.91
117	1	6	37	1	568859.82	0.00	270.00	315.01	315.01	0.00	100.00	0.00	315.01
118	1	7	37	1	568802.80	0.00	319.00	320.84	320.84	0.00	100.00	0.00	320.84
119	1	8	37	1	563605.88	0.00	224.00	309.18	309.18	0.00	100.00	0.00	309.18
120	1	9	37	1	571500.00	0.03	753.00	620.30	285.84	0.00	100.00	0.00	620.30
			SUM =		67511614.83	2.16	66490.00	66662.72	33367.71	0.00	12000.00	0.00	66662.72
			MAX =		571500.00	0.03	3094.00	3096.88	320.84	0.00	100.00	0.00	3096.88
			MIN =		501717.17	0.00	43.00	233.34	233.34	0.00	100.00	0.00	233.34
			PMAX=		1.00	1.00	101.00	101.00	10.00	1.00	1.00	1.00	101.00
			AVG =		562596.79	0.02	554.08	555.52	278.06	0.00	100.00	0.00	555.52
			PMIN=		40.00	11.00	107.00	39.00	3.00	1.00	1.00	1.00	39.00

RUN20 - SUMMARY OUTPUT

```
 YIELD DETERMINED BY OPTIMIZATION
 RES-LOC   TYPE-OPT  OPT. VALUES
     4        2      287.      280.      273.      266.      258.      266.
                     258.      251.      255.      244.      237.      230.
NEW CRITICAL PERIOD=   -33.046     0.050     0.039

*OPSUM
                T1              SINGLE RESERVOIR WATER SUPPLY SYSTEM
                T2              *OPTIMIZATION OF PERIOD VARYING DESIRED FLOWS*    RUN 20
                T3              MONTHLY FLOW 1927-1937 RECORD  (120 PERIODS)

                J7  4.20    0.00    0.00    0.00    0.00    0.00    0.00    2.00    6.00    0.05
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LOCATION	TRIAL	ERROR RATIO	ERROR (STG)	NUM. PERIODS	ROUTING ST PER	AVG INF.	AVG REL	AVG SPILL	TOP.CON STOR.	RATIO STG/Q	DRAW ST PER	DRAW LENGTH	DRAW AV REL LOC=	ANNUAL DES Q 4	ANNUAL REQ Q 4	ANNUAL DIV 4
SINGLE RES	1	0.7691	-53450.	27	1929.10	377.	434.	75.	71500.	0.1731	1930.06	8.	385.	371.	100.	0.
SINGLE RES	2	0.0392	-2725.	27	1929.10	377.	390.	133.	71500.	0.1731	1930.07	7.	276.	266.	100.	0.
SINGLE RES	1	0.0392	-2725.	120	1927.10	554.	556.	308.	71500.	0.1731	1930.07	7.	276.	259.	100.	0.

SUMMARY BY PERIOD FLOOD= 3

LOC NO=					4.	4.	4.	4.	4.	4.	4.	4.	213.	
CODE=					4.110	4.120	4.090	4.100	4.050	4.060	4.070	4.080	213.040	0.000
PER	DY	MO	YR	DW	RES NO.4 EOP STOR	RES NO.4 CASE	RES NO.4 INFLOW	RES NO.4 OUTFLOW	RES NO.4 MIN DESI	RES NO.4 DEQ-SHOR	RES NO.4 MIN REQU	RES NO.4 REQ-SHOR	C.P. 213 FLOW REQ	
1	1	10	27	1	571500.00	0.03	1222.00	1221.09	287.11	0.00	100.00	0.00	1221.09	
2	1	11	27	1	571500.00	0.03	1268.00	1272.75	279.93	0.00	100.00	0.00	1272.75	
3	1	12	27	1	571500.00	0.03	497.00	501.16	272.75	0.00	100.00	0.00	501.16	
4	1	1	28	1	571500.00	0.03	733.00	735.78	265.58	0.00	100.00	0.00	735.78	
5	1	2	28	1	571500.00	0.03	647.00	649.88	258.40	0.00	100.00	0.00	649.88	
6	1	3	28	1	571500.00	0.03	1385.00	1388.55	265.58	0.00	100.00	0.00	1388.55	
7	1	4	28	1	571500.00	0.03	999.00	1003.32	258.40	0.00	100.00	0.00	1003.32	
8	1	5	28	1	571500.00	0.03	1365.00	1365.91	251.22	0.00	100.00	0.00	1365.91	
9	1	6	28	1	571500.00	0.03	1308.00	1308.65	254.81	0.00	100.00	0.00	1308.65	
10	1	7	28	1	571500.00	0.03	360.00	360.94	244.04	0.00	100.00	0.00	360.94	
11	1	8	28	1	571500.00	0.03	282.00	282.70	236.86	0.00	100.00	0.00	282.70	
12	1	9	28	1	568303.25	0.00	176.00	229.69	229.69	0.00	100.00	0.00	229.69	
13	1	10	28	1	565332.44	0.00	193.00	240.45	240.45	0.00	100.00	0.00	240.45	
14	1	11	28	1	566392.78	0.00	261.00	247.63	247.63	0.00	100.00	0.00	247.63	
15	1	12	28	1	571500.00	0.03	481.00	401.98	254.81	0.00	100.00	0.00	401.98	
16	1	1	29	1	571500.00	0.03	431.00	433.78	229.69	0.00	100.00	0.00	433.78	
17	1	2	29	1	571500.00	0.03	1130.00	1132.98	222.51	0.00	100.00	0.00	1132.98	
18	1	3	29	1	571500.00	0.03	1230.00	1233.55	244.04	0.00	100.00	0.00	1233.55	
19	1	4	29	1	571500.00	0.03	810.00	814.32	236.86	0.00	100.00	0.00	814.32	
20	1	5	29	1	571500.00	0.03	283.00	283.91	233.28	0.00	100.00	0.00	283.91	
21	1	6	29	1	567142.45	0.00	163.00	236.86	236.86	0.00	100.00	0.00	236.86	
22	1	7	29	1	561413.26	0.00	150.00	244.04	244.04	0.00	100.00	0.00	244.04	
23	1	8	29	1	558351.75	0.00	208.00	258.40	258.40	0.00	100.00	0.00	258.40	
24	1	9	29	1	571500.00	0.03	608.00	387.01	272.75	0.00	100.00	0.00	387.01	
25	1	10	29	1	571500.00	0.03	614.00	613.09	269.16	0.00	100.00	0.00	613.09	
26	1	11	29	1	571500.00	0.03	553.00	557.75	261.99	0.00	100.00	0.00	557.75	
27	1	12	29	1	571500.00	0.03	524.00	528.16	251.22	0.00	100.00	0.00	528.16	
28	1	1	30	1	571500.00	0.03	475.00	477.78	244.04	0.00	100.00	0.00	477.78	
29	1	2	30	1	571500.00	0.03	760.00	762.98	247.63	0.00	100.00	0.00	762.98	
30	1	3	30	1	571500.00	0.03	891.00	894.55	254.81	0.00	100.00	0.00	894.55	
31	1	4	30	1	571500.00	0.03	491.00	495.32	265.58	0.00	100.00	0.00	495.32	
32	1	5	30	1	571500.00	0.03	575.00	575.91	272.75	0.00	100.00	0.00	575.91	
33	1	6	30	1	571500.00	0.03	317.00	317.65	279.93	0.00	100.00	0.00	317.65	
34	1	7	30	1	560577.58	0.00	105.00	283.52	283.52	0.00	100.00	0.00	283.52	
35	1	8	30	1	548738.45	0.00	94.00	287.11	287.11	0.00	100.00	0.00	287.11	
36	1	9	30	1	536542.55	0.00	75.00	279.93	279.93	0.00	100.00	0.00	279.93	
37	1	10	30	1	524413.14	0.00	76.00	272.75	272.75	0.00	100.00	0.00	272.75	
38	1	11	30	1	514155.81	0.00	102.00	276.34	276.34	0.00	100.00	0.00	276.34	
39	1	12	30	1	505287.96	0.00	124.00	269.16	269.16	0.00	100.00	0.00	269.16	
40	1	1	31	1	499274.66	0.00	164.00	261.99	261.99	0.00	100.00	0.00	261.99	
41	1	2	31	1	522119.39	0.00	669.00	258.40	258.40	0.00	100.00	0.00	258.40	
42	1	3	31	1	561028.18	0.00	878.00	247.63	247.63	0.00	100.00	0.00	247.63	

RUN20 (CONTINUED)

LOC NO=					4.	4.	4.	4.	4.	4.	4.	4.	213.
PER	DY	MO	YR	DW	RES NO.4 EOP STOR	RES NO.4 CASE	RES NO.4 INFLOW	RES NO.4 OUTFLOW	RES NO.4 MIN DESI	RES NO.4 DEQ-SHOR	RES NO.4 MIN REQU	RES NO.4 REQ-SHOR	C.P. 213 FLOW REG
43	1	4	31	1	571500.00	0.03	804.00	632.08	251.22	0.00	100.00	0.00	632.08
44	1	5	31	1	571500.00	0.03	367.00	367.91	236.86	0.00	100.00	0.00	367.91
45	1	6	31	1	571500.00	0.03	420.00	420.65	229.69	0.00	100.00	0.00	420.65
46	1	7	31	1	569659.65	0.00	206.00	236.86	236.86	0.00	100.00	0.00	236.86
47	1	8	31	1	563389.60	0.00	145.00	247.63	247.63	0.00	100.00	0.00	247.63
48	1	9	31	1	554123.61	0.00	74.00	229.69	229.69	0.00	100.00	0.00	229.69
49	1	10	31	1	543994.74	0.00	80.00	244.04	244.04	0.00	100.00	0.00	244.04
50	1	11	31	1	537149.45	0.00	133.00	251.22	251.22	0.00	100.00	0.00	251.22
51	1	12	31	1	551973.57	0.00	475.00	236.86	236.86	0.00	100.00	0.00	236.86
52	1	1	32	1	563957.83	0.00	433.00	240.45	240.45	0.00	100.00	0.00	240.45
53	1	2	32	1	571500.00	0.03	530.00	401.64	244.04	0.00	100.00	0.00	401.64
54	1	3	32	1	571500.00	0.03	1106.00	1109.55	247.63	0.00	100.00	0.00	1109.55
55	1	4	32	1	571500.00	0.03	506.00	510.32	229.69	0.00	100.00	0.00	510.32
56	1	5	32	1	571500.00	0.03	513.00	513.91	226.10	0.00	100.00	0.00	513.91
57	1	6	32	1	571500.00	0.03	276.00	276.65	215.33	0.00	100.00	0.00	276.65
58	1	7	32	1	565867.97	0.00	130.00	222.51	222.51	0.00	100.00	0.00	222.51
59	1	8	32	1	557179.67	0.00	77.00	218.92	218.92	0.00	100.00	0.00	218.92
60	1	9	32	1	569464.96	0.00	429.00	222.51	222.51	0.00	100.00	0.00	222.51
61	1	10	32	1	571500.00	0.03	1205.00	1171.00	229.69	0.00	100.00	0.00	1171.00
62	1	11	32	1	571500.00	0.03	400.00	404.75	233.28	0.00	100.00	0.00	404.75
63	1	12	32	1	571500.00	0.03	438.00	442.16	236.86	0.00	100.00	0.00	442.16
64	1	1	33	1	571500.00	0.03	526.00	528.78	233.28	0.00	100.00	0.00	528.78
65	1	2	33	1	571500.00	0.03	909.00	911.98	240.45	0.00	100.00	0.00	911.98
66	1	3	33	1	571500.00	0.03	1224.00	1227.55	247.63	0.00	100.00	0.00	1227.55
67	1	4	33	1	571500.00	0.03	655.00	659.32	244.04	0.00	100.00	0.00	659.32
68	1	5	33	1	571500.00	0.03	348.00	348.91	254.81	0.00	100.00	0.00	348.91
69	1	6	33	1	568777.22	0.00	212.00	258.40	258.40	0.00	100.00	0.00	258.40
70	1	7	33	1	571500.00	0.03	1032.00	988.65	265.58	0.00	100.00	0.00	988.65
71	1	8	33	1	571500.00	0.03	1237.00	1237.70	236.86	0.00	100.00	0.00	1237.70
72	1	9	33	1	571500.00	0.03	524.00	523.96	240.45	0.00	100.00	0.00	523.96
73	1	10	33	1	571500.00	0.03	385.00	384.09	244.04	0.00	100.00	0.00	384.09
74	1	11	33	1	571500.00	0.03	354.00	358.75	258.40	0.00	100.00	0.00	358.75
75	1	12	33	1	571500.00	0.03	712.00	716.16	261.99	0.00	100.00	0.00	716.16
76	1	1	34	1	564543.35	0.00	139.00	254.81	254.81	0.00	100.00	0.00	254.81
77	1	2	34	1	571500.00	0.03	459.00	336.61	261.99	0.00	100.00	0.00	336.61
78	1	3	34	1	571500.00	0.03	1195.00	1198.55	265.58	0.00	100.00	0.00	1198.55
79	1	4	34	1	571500.00	0.03	550.00	554.32	258.40	0.00	100.00	0.00	554.32
80	1	5	34	1	571500.00	0.03	307.00	307.91	254.81	0.00	100.00	0.00	307.91
81	1	6	34	1	567705.89	0.00	194.00	258.40	258.40	0.00	100.00	0.00	258.40
82	1	7	34	1	563048.01	0.00	171.00	247.63	247.63	0.00	100.00	0.00	247.63
83	1	8	34	1	571500.00	0.03	513.00	376.21	251.22	0.00	100.00	0.00	376.21
84	1	9	34	1	571500.00	0.03	424.00	423.96	236.86	0.00	100.00	0.00	423.96
85	1	10	34	1	571500.00	0.03	620.00	619.09	229.69	0.00	100.00	0.00	619.09
86	1	11	34	1	571500.00	0.03	1219.00	1223.75	236.86	0.00	100.00	0.00	1223.75
87	1	12	34	1	571500.00	0.03	566.00	570.16	247.63	0.00	100.00	0.00	570.16
88	1	1	35	1	571500.00	0.03	354.00	356.78	229.69	0.00	100.00	0.00	356.78
89	1	2	35	1	571500.00	0.03	1044.00	1046.98	244.04	0.00	100.00	0.00	1046.98
90	1	3	35	1	571500.00	0.03	763.00	766.55	251.22	0.00	100.00	0.00	766.55

RUN20 (CONTINUED)

LOC NO=					4.	4.	4.	4.	4.	4.	4.	4.	213.
PER	DY	MO	YR	DW	RES NO.4 EOP STOR	RES NO.4 CASE	RES NO.4 INFLOW	RES NO.4 OUTFLOW	RES NO.4 MIN DESI	RES NO.4 DEQ-SHOR	RES NO.4 MIN REQU	RES NO.4 REQ-SHOR	C.P. 213 FLOW REG
91	1	4	35	1	571500.00	0.03	545.00	549.32	236.86	0.00	100.00	0.00	549.32
92	1	5	35	1	571500.00	0.03	388.00	388.91	240.45	0.00	100.00	0.00	388.91
93	1	6	35	1	571500.00	0.03	1177.00	1177.65	244.04	0.00	100.00	0.00	1177.65
94	1	7	35	1	571500.00	0.03	252.00	252.94	247.63	0.00	100.00	0.00	252.94
95	1	8	35	1	568917.63	0.00	187.00	229.69	229.69	0.00	100.00	0.00	229.69
96	1	9	35	1	566113.01	0.00	179.00	226.10	226.10	0.00	100.00	0.00	226.10
97	1	10	35	1	571500.00	0.03	872.00	783.51	215.33	0.00	100.00	0.00	783.51
98	1	11	35	1	571500.00	0.03	697.00	701.75	222.51	0.00	100.00	0.00	701.75
99	1	12	35	1	571500.00	0.03	613.00	617.16	218.92	0.00	100.00	0.00	617.16
100	1	1	36	1	571500.00	0.03	331.00	333.78	222.51	0.00	100.00	0.00	333.78
101	1	2	36	1	571500.00	0.03	3094.00	3096.88	229.69	0.00	100.00	0.00	3096.88
102	1	3	36	1	571500.00	0.03	820.00	823.55	233.28	0.00	100.00	0.00	823.55
103	1	4	36	1	571500.00	0.03	354.00	358.32	236.86	0.00	100.00	0.00	358.32
104	1	5	36	1	571500.00	0.03	268.00	268.91	233.28	0.00	100.00	0.00	268.91
105	1	6	36	1	564726.68	0.00	126.00	240.45	240.45	0.00	100.00	0.00	240.45
106	1	7	36	1	553546.93	0.00	65.00	247.63	247.63	0.00	100.00	0.00	247.63
107	1	8	36	1	541216.85	0.00	43.00	244.04	244.04	0.00	100.00	0.00	244.04
108	1	9	36	1	534383.76	0.00	140.00	254.81	254.81	0.00	100.00	0.00	254.81
109	1	10	36	1	529039.13	0.00	172.00	258.40	258.40	0.00	100.00	0.00	258.40
110	1	11	36	1	546740.73	0.00	560.00	265.58	265.58	0.00	100.00	0.00	265.58
111	1	12	36	1	571500.00	0.03	1004.00	604.92	236.86	0.00	100.00	0.00	604.92
112	1	1	37	1	571500.00	0.03	859.00	861.78	240.45	0.00	100.00	0.00	861.78
113	1	2	37	1	571500.00	0.03	679.00	681.98	244.04	0.00	100.00	0.00	681.98
114	1	3	37	1	571500.00	0.03	1282.00	1285.55	258.40	0.00	100.00	0.00	1285.55
115	1	4	37	1	571500.00	0.03	793.00	797.32	261.99	0.00	100.00	0.00	797.32
116	1	5	37	1	571500.00	0.03	364.00	364.91	254.81	0.00	100.00	0.00	364.91
117	1	6	37	1	571500.00	0.03	270.00	270.65	261.99	0.00	100.00	0.00	270.65
118	1	7	37	1	571500.00	0.03	319.00	319.94	265.58	0.00	100.00	0.00	319.94
119	1	8	37	1	569427.44	0.00	224.00	258.40	258.40	0.00	100.00	0.00	258.40
120	1	9	37	1	571500.00	0.03	753.00	718.13	254.81	0.00	100.00	0.00	718.13
				SUM =	67837021.32	2.46	66490.00	66665.64	29740.87	0.00	12000.00	0.00	66665.64
				MAX =	571500.00	0.03	3094.00	3096.88	287.11	0.00	100.00	0.00	3096.88
				MIN =	499274.66	0.00	43.00	218.92	215.33	0.00	100.00	0.00	218.92
				PMAX=	70.00	1.00	101.00	101.00	1.00	1.00	1.00	1.00	101.00
				AVG =	565308.51	0.02	554.08	555.55	247.84	0.00	100.00	0.00	555.55
				PMIN=	40.00	12.00	107.00	59.00	57.00	1.00	1.00	1.00	59.00

RUN21 - SUMMARY OUTPUT

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 YIELD DETERMINED BY OPTIMIZATION
 RES-LOC   TYPE-OPT  OPT. VALUES
     4        3       200.
NEW CRITICAL PERIOD=  -102.115     0.050     0.024

*OPSUM
                T1             SINGLE RESERVOIR WATER SUPPLY SYSTEM
                T2             *OPTIMIZATION OF REQUIRED FLOWS*    RUN 21
                T3             MONTHLY FLOW 1927-1937 RECORD  (120 PERIODS)

                J7  4.30    0.00    0.00    0.00    0.00    0.00    0.00    2.00    6.00    0.05
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LOCATION	TRIAL	ERROR RATIO	ERROR (STG)	NUM. PERIODS	ROUTING ST PER	AVG INF.	AVG REL	AVG SPILL	TOP.CON STOR.	RATIO STG/Q	DRAW ST PER	DRAW LENGTH	DRAW AV REL LOC=	ANNUAL DES Q 4	ANNUAL REQ Q 4	ANNUAL DIV 4
SINGLE RES	1	0.0239	1700.	27	1929.10	377.	417.	63.	71500.	0.1774	1930.06	18.	331.	400.	200.	0.
SINGLE RES	1	0.0239	1700.	120	1927.10	554.	556.	164.	71500.	0.1774	1936.04	7.	331.	400.	200.	0.

RUN21 (CONTINUED)

SUMMARY BY PERIOD FLOOD= 2

LOC NO=					4.	4.	4.	4.	4.	4.	4.	4.	4.	213.
CODE=					4.110	4.130	4.120	4.090	4.100	4.050	4.060	4.070	4.080	213.040
PER	DY	MO	YR	DW	RES NO.4 EOP STOR	RES NO.4 LEVEL	RES NO.4 CASE	RES NO.4 INFLOW	RES NO.4 OUTFLOW	RES NO.4 MIN DESI	RES NO.4 DEQ-SHOR	RES NO.4 MIN REQU	RES NO.4 REQ-SHOR	C.P. 213 FLOW REG
1	1	10	27	1	571500.00	3.00	0.03	1222.00	1221.09	400.00	0.00	200.00	0.00	1221.09
2	1	11	27	1	571500.00	3.00	0.03	1268.00	1272.75	400.00	0.00	200.00	0.00	1272.75
3	1	12	27	1	571500.00	3.00	0.03	497.00	501.16	400.00	0.00	200.00	0.00	501.16
4	1	1	28	1	571500.00	3.00	0.03	733.00	735.78	400.00	0.00	200.00	0.00	735.78
5	1	2	28	1	571500.00	3.00	0.03	647.00	649.88	400.00	0.00	200.00	0.00	649.88
6	1	3	28	1	571500.00	3.00	0.03	1385.00	1388.55	400.00	0.00	200.00	0.00	1388.55
7	1	4	28	1	571500.00	3.00	0.03	999.00	1003.32	400.00	0.00	200.00	0.00	1003.32
8	1	5	28	1	571500.00	3.00	0.03	1365.00	1365.91	400.00	0.00	200.00	0.00	1365.91
9	1	6	28	1	571500.00	3.00	0.03	1308.00	1308.65	400.00	0.00	200.00	0.00	1308.65
10	1	7	28	1	569097.74	2.97	0.00	360.00	400.00	400.00	0.00	200.00	0.00	400.00
11	1	8	28	1	561882.20	2.86	0.00	282.00	400.00	400.00	0.00	200.00	0.00	400.00
12	1	9	28	1	548551.32	2.67	0.00	176.00	400.00	400.00	0.00	200.00	0.00	400.00
13	1	10	28	1	535784.87	2.49	0.00	193.00	400.00	400.00	0.00	200.00	0.00	400.00
14	1	11	28	1	527676.37	2.37	0.00	261.00	400.00	400.00	0.00	200.00	0.00	400.00
15	1	12	28	1	532799.72	2.44	0.00	481.00	400.00	400.00	0.00	200.00	0.00	400.00
16	1	1	29	1	534808.36	2.47	0.00	431.00	400.00	400.00	0.00	200.00	0.00	400.00
17	1	2	29	1	571500.00	3.00	0.03	1130.00	471.71	400.00	0.00	200.00	0.00	471.71
18	1	3	29	1	571500.00	3.00	0.03	1230.00	1233.55	400.00	0.00	200.00	0.00	1233.55
19	1	4	29	1	571500.00	3.00	0.03	810.00	814.32	400.00	0.00	200.00	0.00	814.32
20	1	5	29	1	564359.51	2.90	0.00	283.00	400.00	400.00	0.00	200.00	0.00	400.00
21	1	6	29	1	550289.35	2.69	0.00	163.00	400.00	400.00	0.00	200.00	0.00	400.00
22	1	7	29	1	534957.29	2.47	0.00	150.00	400.00	400.00	0.00	200.00	0.00	400.00
23	1	8	29	1	523174.91	2.30	0.00	208.00	400.00	400.00	0.00	200.00	0.00	400.00
24	1	9	29	1	535550.77	2.48	0.00	608.00	400.00	400.00	0.00	200.00	0.00	400.00
25	1	10	29	1	548671.01	2.67	0.00	614.00	400.00	400.00	0.00	200.00	0.00	400.00
26	1	11	29	1	558000.50	2.81	0.00	553.00	400.00	400.00	0.00	200.00	0.00	400.00
27	1	12	29	1	565853.36	2.92	0.00	524.00	400.00	400.00	0.00	200.00	0.00	400.00
28	1	1	30	1	570629.70	2.99	0.00	475.00	400.00	400.00	0.00	200.00	0.00	400.00
29	1	2	30	1	571500.00	3.00	0.03	760.00	747.30	400.00	0.00	200.00	0.00	747.30
30	1	3	30	1	571500.00	3.00	0.03	891.00	894.55	400.00	0.00	200.00	0.00	894.55
31	1	4	30	1	571500.00	3.00	0.03	491.00	495.32	400.00	0.00	200.00	0.00	495.32
32	1	5	30	1	571500.00	3.00	0.03	575.00	575.91	400.00	0.00	200.00	0.00	575.91
33	1	6	30	1	566598.73	2.93	0.00	317.00	400.00	400.00	0.00	200.00	0.00	400.00
34	1	7	30	1	548508.55	2.67	0.00	105.00	400.00	400.00	0.00	200.00	0.00	400.00
35	1	8	30	1	529721.25	2.40	0.00	94.00	400.00	400.00	0.00	200.00	0.00	400.00
36	1	9	30	1	510381.21	2.12	0.00	75.00	400.00	400.00	0.00	200.00	0.00	400.00
37	1	10	30	1	502000.00	2.00	0.09	76.00	212.16	400.00	187.84	200.00	0.00	212.16
38	1	11	30	1	502000.00	2.00	0.09	102.00	102.29	400.00	297.71	200.00	97.71	102.29
39	1	12	30	1	502000.00	2.00	0.09	124.00	124.26	400.00	275.74	200.00	75.74	124.26
40	1	1	31	1	502000.00	2.00	0.09	164.00	164.17	400.00	235.83	200.00	35.83	164.17
41	1	2	31	1	516976.57	2.22	0.00	669.00	400.00	400.00	0.00	200.00	0.00	400.00
42	1	3	31	1	546493.66	2.64	0.00	878.00	400.00	400.00	0.00	200.00	0.00	400.00

RUN21 (CONTINUED)

LOC NO=						4.	4.	4.	4.	4.	4.	4.	4.	4.	213.
PER	DY	MO	YR	DW		RES NO.4 EOP STOR	RES NO.4 LEVEL	RES NO.4 CASE	RES NO.4 INFLOW	RES NO.4 OUTFLOW	RES NO.4 MIN DESI	RES NO.4 DEQ-SHOR	RES NO.4 MIN REQU	RES NO.4 REQ-SHOR	C.P. 213 FLOW REQ
43	1	4	31	1		570753.35	2.99	0.00	804.00	400.00	400.00	0.00	200.00	0.00	400.00
44	1	5	31	1		568779.06	2.96	0.00	367.00	400.00	400.00	0.00	200.00	0.00	400.00
45	1	6	31	1		570006.95	2.98	0.00	420.00	400.00	400.00	0.00	200.00	0.00	400.00
46	1	7	31	1		558131.38	2.81	0.00	206.00	400.00	400.00	0.00	200.00	0.00	400.00
47	1	8	31	1		542484.77	2.58	0.00	145.00	400.00	400.00	0.00	200.00	0.00	400.00
48	1	9	31	1		523084.88	2.30	0.00	74.00	400.00	400.00	0.00	200.00	0.00	400.00
49	1	10	31	1		503392.06	2.02	0.00	80.00	400.00	400.00	0.00	200.00	0.00	400.00
50	1	11	31	1		502000.00	2.00	0.09	133.00	156.77	400.00	243.23	200.00	43.23	156.77
51	1	12	31	1		506641.80	2.07	0.00	475.00	400.00	400.00	0.00	200.00	0.00	400.00
52	1	1	32	1		508702.98	2.10	0.00	433.00	400.00	400.00	0.00	200.00	0.00	400.00
53	1	2	32	1		516227.14	2.20	0.00	530.00	400.00	400.00	0.00	200.00	0.00	400.00
54	1	3	32	1		559778.64	2.83	0.00	1106.00	400.00	400.00	0.00	200.00	0.00	400.00
55	1	4	32	1		566318.68	2.93	0.00	506.00	400.00	400.00	0.00	200.00	0.00	400.00
56	1	5	32	1		571500.00	3.00	0.03	513.00	429.62	400.00	0.00	200.00	0.00	429.62
57	1	6	32	1		564158.49	2.89	0.00	276.00	400.00	400.00	0.00	200.00	0.00	400.00
58	1	7	32	1		547604.43	2.66	0.00	130.00	400.00	400.00	0.00	200.00	0.00	400.00
59	1	8	32	1		527771.22	2.37	0.00	77.00	400.00	400.00	0.00	200.00	0.00	400.00
60	1	9	32	1		529495.71	2.40	0.00	429.00	400.00	400.00	0.00	200.00	0.00	400.00
61	1	10	32	1		571500.00	3.00	0.03	1205.00	521.18	400.00	0.00	200.00	0.00	521.18
62	1	11	32	1		571500.00	3.00	0.03	400.00	404.75	400.00	0.00	200.00	0.00	404.75
63	1	12	32	1		571500.00	3.00	0.03	438.00	442.16	400.00	0.00	200.00	0.00	442.16
64	1	1	33	1		571500.00	3.00	0.03	526.00	528.78	400.00	0.00	200.00	0.00	528.78
65	1	2	33	1		571500.00	3.00	0.03	909.00	911.98	400.00	0.00	200.00	0.00	911.98
66	1	3	33	1		571500.00	3.00	0.03	1224.00	1227.55	400.00	0.00	200.00	0.00	1227.55
67	1	4	33	1		571500.00	3.00	0.03	655.00	659.32	400.00	0.00	200.00	0.00	659.32
68	1	5	33	1		568357.52	2.95	0.00	348.00	400.00	400.00	0.00	200.00	0.00	400.00
69	1	6	33	1		557205.49	2.79	0.00	212.00	400.00	400.00	0.00	200.00	0.00	400.00
70	1	7	33	1		571500.00	3.00	0.03	1032.00	800.39	400.00	0.00	200.00	0.00	800.39
71	1	8	33	1		571500.00	3.00	0.03	1237.00	1237.70	400.00	0.00	200.00	0.00	1237.70
72	1	9	33	1		571500.00	3.00	0.03	524.00	523.96	400.00	0.00	200.00	0.00	523.96
73	1	10	33	1		570522.06	2.99	0.00	385.00	400.00	400.00	0.00	200.00	0.00	400.00
74	1	11	33	1		568060.60	2.95	0.00	354.00	400.00	400.00	0.00	200.00	0.00	400.00
75	1	12	33	1		571500.00	3.00	0.03	712.00	660.15	400.00	0.00	200.00	0.00	660.15
76	1	1	34	1		555607.15	2.77	0.00	139.00	400.00	400.00	0.00	200.00	0.00	400.00
77	1	2	34	1		559022.99	2.82	0.00	459.00	400.00	400.00	0.00	200.00	0.00	400.00
78	1	3	34	1		571500.00	3.00	0.03	1195.00	995.38	400.00	0.00	200.00	0.00	995.38
79	1	4	34	1		571500.00	3.00	0.03	550.00	554.32	400.00	0.00	200.00	0.00	554.32
80	1	5	34	1		565835.70	2.92	0.00	307.00	400.00	400.00	0.00	200.00	0.00	400.00
81	1	6	34	1		553611.24	2.74	0.00	194.00	400.00	400.00	0.00	200.00	0.00	400.00
82	1	7	34	1		539572.73	2.54	0.00	171.00	400.00	400.00	0.00	200.00	0.00	400.00
83	1	8	34	1		546550.80	2.64	0.00	513.00	400.00	400.00	0.00	200.00	0.00	400.00
84	1	9	34	1		547977.34	2.66	0.00	424.00	400.00	400.00	0.00	200.00	0.00	400.00
85	1	10	34	1		561459.48	2.86	0.00	620.00	400.00	400.00	0.00	200.00	0.00	400.00
86	1	11	34	1		571500.00	3.00	0.03	1219.00	1054.75	400.00	0.00	200.00	0.00	1054.75
87	1	12	34	1		571500.00	3.00	0.03	566.00	570.16	400.00	0.00	200.00	0.00	570.16
88	1	1	35	1		568839.94	2.96	0.00	354.00	400.00	400.00	0.00	200.00	0.00	400.00

RUN21 (CONTINUED)

LOC NO=					4.	4.	4.	4.	4.	4.	4.	4.	4.	213.
PER	DY	MO	YR	DW	RES NO.4 EOP STOR	RES NO.4 LEVEL	RES NO.4 CASE	RES NO.4 INFLOW	RES NO.4 OUTFLOW	RES NO.4 MIN DESI	RES NO.4 DEQ-SHOR	RES NO.4 MIN REQU	RES NO.4 REQ-SHOR	C.P. 213 FLOW REG
89	1	2	35	1	571500.00	3.00	0.03	1044.00	999.04	400.00	0.00	200.00	0.00	999.04
90	1	3	35	1	571500.00	3.00	0.03	763.00	766.55	400.00	0.00	200.00	0.00	766.55
91	1	4	35	1	571500.00	3.00	0.03	545.00	549.32	400.00	0.00	200.00	0.00	549.32
92	1	5	35	1	570817.84	2.99	0.00	388.00	400.00	400.00	0.00	200.00	0.00	400.00
93	1	6	35	1	571500.00	3.00	0.03	1177.00	1166.18	400.00	0.00	200.00	0.00	1166.18
94	1	7	35	1	562454.81	2.87	0.00	252.00	400.00	400.00	0.00	200.00	0.00	400.00
95	1	8	35	1	549393.21	2.68	0.00	187.00	400.00	400.00	0.00	200.00	0.00	400.00
96	1	9	35	1	536241.12	2.49	0.00	179.00	400.00	400.00	0.00	200.00	0.00	400.00
97	1	10	35	1	565220.60	2.91	0.00	872.00	400.00	400.00	0.00	200.00	0.00	400.00
98	1	11	35	1	571500.00	3.00	0.03	697.00	596.06	400.00	0.00	200.00	0.00	596.06
99	1	12	35	1	571500.00	3.00	0.03	613.00	617.16	400.00	0.00	200.00	0.00	617.16
100	1	1	36	1	567424.34	2.94	0.00	331.00	400.00	400.00	0.00	200.00	0.00	400.00
101	1	2	36	1	571500.00	3.00	0.03	3094.00	3025.96	400.00	0.00	200.00	0.00	3025.96
102	1	3	36	1	571500.00	3.00	0.03	820.00	823.55	400.00	0.00	200.00	0.00	823.55
103	1	4	36	1	569016.18	2.96	0.00	354.00	400.00	400.00	0.00	200.00	0.00	400.00
104	1	5	36	1	560951.50	2.85	0.00	268.00	400.00	400.00	0.00	200.00	0.00	400.00
105	1	6	36	1	544677.76	2.61	0.00	126.00	400.00	400.00	0.00	200.00	0.00	400.00
106	1	7	36	1	524114.33	2.32	0.00	65.00	400.00	400.00	0.00	200.00	0.00	400.00
107	1	8	36	1	502175.54	2.00	0.00	43.00	400.00	400.00	0.00	200.00	0.00	400.00
108	1	9	36	1	502000.00	2.00	0.09	140.00	142.95	400.00	257.05	200.00	57.05	142.95
109	1	10	36	1	502000.00	2.00	0.09	172.00	171.94	400.00	228.06	200.00	28.06	171.94
110	1	11	36	1	511568.99	2.14	0.00	560.00	400.00	400.00	0.00	200.00	0.00	400.00
111	1	12	36	1	548850.74	2.67	0.00	1004.00	400.00	400.00	0.00	200.00	0.00	400.00
112	1	1	37	1	571500.00	3.00	0.03	859.00	493.08	400.00	0.00	200.00	0.00	493.08
113	1	2	37	1	571500.00	3.00	0.03	679.00	681.98	400.00	0.00	200.00	0.00	681.98
114	1	3	37	1	571500.00	3.00	0.03	1282.00	1285.55	400.00	0.00	200.00	0.00	1285.55
115	1	4	37	1	571500.00	3.00	0.03	793.00	797.32	400.00	0.00	200.00	0.00	797.32
116	1	5	37	1	569341.65	2.97	0.00	364.00	400.00	400.00	0.00	200.00	0.00	400.00
117	1	6	37	1	561642.09	2.86	0.00	270.00	400.00	400.00	0.00	200.00	0.00	400.00
118	1	7	37	1	556711.52	2.79	0.00	319.00	400.00	400.00	0.00	200.00	0.00	400.00
119	1	8	37	1	545922.93	2.63	0.00	224.00	400.00	400.00	0.00	200.00	0.00	400.00
120	1	9	37	1	566926.41	2.93	0.00	753.00	400.00	400.00	0.00	200.00	0.00	400.00
			SUM =		66480173.10	329.79	1.95	66490.00	66678.20	48000.00	1725.45	24000.00	337.62	66678.20
			MAX =		571500.00	3.00	0.09	3094.00	3025.96	400.00	297.71	200.00	97.71	3025.96
			MIN =		502000.00	2.00	0.00	43.00	102.29	400.00	0.00	200.00	0.00	102.29
			PMAX=		86.00	86.00	37.00	101.00	101.00	1.00	38.00	1.00	38.00	101.00
			AVG =		554001.44	2.75	0.02	554.08	555.65	400.00	14.38	200.00	2.81	555.65
			PMIN=		37.00	37.00	10.00	107.00	38.00	1.00	1.00	1.00	1.00	38.00

RUN22 – SUMMARY OUTPUT

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 YIELD DETERMINED BY OPTIMIZATION
 RES-LOC   TYPE-OPT  OPT. VALUES
     4        4        144.      173.      180.      180.      173.      158.
                       144.      144.      144.      144.      144.      144.
NEW CRITICAL PERIOD=   -33.046     0.050     0.043

*OPSUM
                  T1            SINGLE RESERVOIR WATER SUPPLY SYSTEM
                  T2            *OPTIMIZATION OF MONTHLY DIVERSION*      RUN 22
                  T3            MONTHLY FLOW 1927-1937 RECORD  (120 PERIODS)

                  J7  4.40    0.00    0.00    0.00    0.00    0.00    0.00    2.00    6.00    0.05
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LOCATION	TRIAL	ERROR RATIO	ERROR (ST6)	NUM. PERIODS	ROUTING ST PER	AVG INF.	AVG REL	AVG SPILL	TOP.CON STOR.	RATIO ST6/Q	DRAW ST PER	DRAW LENGTH	DRAW AV REL LOC=	ANNUAL DES Q 4	ANNUAL REQ Q 4	ANNUAL DIV 4
SINGLE RES	1	0.3489	-24247.	27	1929.10	159.	191.	191.	71500.	0.1731	1930.07	7.	106.	0.	0.	217.
SINGLE RES	2	0.1611	-11197.	27	1929.10	197.	221.	221.	71500.	0.1731	1930.07	7.	114.	0.	0.	179.
SINGLE RES	3	0.0819	-5691.	27	1929.10	213.	234.	234.	71500.	0.1731	1930.07	7.	117.	0.	0.	163.
SINGLE RES	4	0.0434	-3018.	27	1929.10	221.	240.	240.	71500.	0.1731	1930.07	7.	118.	0.	0.	156.
SINGLE RES	1	0.0434	-3018.	120	1927.10	398.	400.	391.	71500.	0.1731	1930.07	7.	118.	0.	0.	156.

RUN22 (CONTINUED)

SUMMARY BY PERIOD FLOOD= 5

LOC NO=					4.	4.	4.	4.	4.	4.	4.	4.	213.	213.
CODE=					4.110	4.130	4.120	4.240	4.090	4.100	4.300	4.030	213.030	213.040
PER	DY	MO	YR	DW	RES NO.4 EOP STOR	RES NO.4 LEVEL	RES NO.4 CASE	RES NO.4 LOCAL IN	RES NO.4 INFLOW	RES NO.4 OUTFLOW	RES NO.4 DIV REQU	RES NO.4 DIVERSIO	C.P. 213 DIVERSIO	C.P. 213 FLOW REG
1	1	10	27	1	571500.00	3.00	0.03	1222.00	1078.18	1077.27	143.82	143.82	-28.76	1106.03
2	1	11	27	1	571500.00	3.00	0.03	1268.00	1095.41	1100.16	172.59	172.59	-34.52	1134.68
3	1	12	27	1	571500.00	3.00	0.03	497.00	317.22	321.38	179.78	179.78	-35.96	357.34
4	1	1	28	1	571500.00	3.00	0.03	733.00	553.22	556.00	179.78	179.78	-35.96	591.96
5	1	2	28	1	571500.00	3.00	0.03	647.00	474.41	477.29	172.59	172.59	-34.52	511.81
6	1	3	28	1	571500.00	3.00	0.03	1385.00	1226.79	1230.34	158.21	158.21	-31.64	1261.98
7	1	4	28	1	571500.00	3.00	0.03	999.00	855.18	859.49	143.82	143.82	-28.76	888.26
8	1	5	28	1	571500.00	3.00	0.03	1365.00	1221.18	1222.09	143.82	143.82	-28.76	1250.85
9	1	6	28	1	571500.00	3.00	0.03	1308.00	1164.18	1164.83	143.82	143.82	-28.76	1193.59
10	1	7	28	1	571500.00	3.00	0.03	360.00	216.18	217.12	143.82	143.82	-28.76	245.88
11	1	8	28	1	571500.00	3.00	0.03	282.00	138.18	138.88	143.82	143.82	-28.76	167.64
12	1	9	28	1	566198.43	2.99	213.00	176.00	32.18	121.24	143.82	143.82	-28.76	150.00
13	1	10	28	1	561716.45	2.98	213.00	193.00	49.18	121.24	143.82	143.82	-28.76	150.00
14	1	11	28	1	560355.00	2.98	213.00	261.00	88.41	115.48	172.59	172.59	-34.52	150.00
15	1	12	28	1	571500.00	3.00	0.03	481.00	301.22	123.87	179.78	179.78	-35.96	159.82
16	1	1	29	1	571500.00	3.00	0.03	431.00	251.22	254.00	179.78	179.78	-35.96	289.96
17	1	2	29	1	571500.00	3.00	0.03	1130.00	957.41	960.39	172.59	172.59	-34.52	994.91
18	1	3	29	1	571500.00	3.00	0.03	1230.00	1071.79	1075.34	158.21	158.21	-31.64	1106.98
19	1	4	29	1	571500.00	3.00	0.03	810.00	666.18	670.49	143.82	143.82	-28.76	699.26
20	1	5	29	1	571500.00	3.00	0.03	283.00	139.18	140.09	143.82	143.82	-28.76	168.85
21	1	6	29	1	565464.35	2.99	213.00	163.00	19.18	121.24	143.82	143.82	-28.76	150.00
22	1	7	29	1	558441.34	2.98	213.00	150.00	6.18	121.24	143.82	143.82	-28.76	150.00
23	1	8	29	1	554968.67	2.97	213.00	208.00	64.18	121.24	143.82	143.82	-28.76	150.00
24	1	9	29	1	571500.00	3.00	0.03	608.00	464.18	186.33	143.82	143.82	-28.76	215.09
25	1	10	29	1	571500.00	3.00	0.03	614.00	470.18	469.27	143.82	143.82	-28.76	498.03
26	1	11	29	1	571500.00	3.00	0.03	553.00	380.41	385.16	172.59	172.59	-34.52	419.68
27	1	12	29	1	571500.00	3.00	0.03	524.00	344.22	348.38	179.78	179.78	-35.96	384.34
28	1	1	30	1	571500.00	3.00	0.03	475.00	295.22	298.00	179.78	179.78	-35.96	333.96
29	1	2	30	1	571500.00	3.00	0.03	760.00	587.41	590.39	172.59	172.59	-34.52	624.91
30	1	3	30	1	571500.00	3.00	0.03	891.00	732.79	736.34	158.21	158.21	-31.64	767.98
31	1	4	30	1	571500.00	3.00	0.03	491.00	347.18	351.49	143.82	143.82	-28.76	380.26
32	1	5	30	1	571500.00	3.00	0.03	575.00	431.18	432.09	143.82	143.82	-28.76	460.85
33	1	6	30	1	571500.00	3.00	0.03	317.00	173.18	173.83	143.82	143.82	-28.76	202.59
34	1	7	30	1	561713.05	2.98	213.00	105.00	-38.82	121.24	143.82	143.82	-28.76	150.00
35	1	8	30	1	551230.59	2.96	213.00	94.00	-49.82	121.24	143.82	143.82	-28.76	150.00
36	1	9	30	1	539919.56	2.94	213.00	75.00	-68.82	121.24	143.82	143.82	-28.76	150.00
37	1	10	30	1	528260.87	2.92	213.00	76.00	-67.82	121.24	143.82	143.82	-28.76	150.00
38	1	11	30	1	517321.91	2.91	213.00	102.00	-70.59	115.48	172.59	172.59	-34.52	150.00
39	1	12	30	1	506949.67	2.89	213.00	124.00	-55.78	114.04	179.78	179.78	-35.96	150.00
40	1	1	31	1	498981.54	2.87	213.00	164.00	-15.78	114.04	179.78	179.78	-35.96	150.00
41	1	2	31	1	520174.69	2.91	213.00	669.00	496.41	115.48	172.59	172.59	-34.52	150.00
42	1	3	31	1	557298.22	2.98	213.00	878.00	719.79	118.36	158.21	158.21	-31.64	150.00

RUN22 (CONTINUED)

LOC NO=					4.	4.	4.	4.	4.	4.	4.	4.	213.	213.
PER	DY	MO	YR	DW	RES NO.4 EOP STOR	RES NO.4 LEVEL	RES NO.4 CASE	RES NO.4 LOCAL IN	RES NO.4 INFLOW	RES NO.4 OUTFLOW	RES NO.4 DIV REQU	RES NO.4 DIVERSIO	C.P. 213 DIVERSIO	C.P. 213 FLOW REG
43	1	4	31	1	571500.00	3.00	0.03	804.00	660.18	425.48	143.82	143.82	-28.76	454.25
44	1	5	31	1	571500.00	3.00	0.03	367.00	223.18	224.09	143.82	143.82	-28.76	252.85
45	1	6	31	1	571500.00	3.00	0.03	420.00	276.18	276.83	143.82	143.82	-28.76	305.59
46	1	7	31	1	567925.42	2.99	213.00	206.00	62.18	121.24	143.82	143.82	-28.76	150.00
47	1	8	31	1	560582.65	2.98	213.00	145.00	1.18	121.24	143.82	143.82	-28.76	150.00
48	1	9	31	1	549211.91	2.96	213.00	74.00	-69.82	121.24	143.82	143.82	-28.76	150.00
49	1	10	31	1	537793.81	2.94	213.00	80.00	-63.82	121.24	143.82	143.82	-28.76	150.00
50	1	11	31	1	528734.06	2.93	213.00	133.00	-39.59	115.48	172.59	172.59	-34.52	150.00
51	1	12	31	1	540029.43	2.94	213.00	475.00	295.22	114.04	179.78	179.78	-35.96	150.00
52	1	1	32	1	548708.09	2.96	213.00	433.00	253.22	114.04	179.78	179.78	-35.96	150.00
53	1	2	32	1	562760.34	2.98	213.00	530.00	357.41	115.48	172.59	172.59	-34.52	150.00
54	1	3	32	1	571500.00	3.00	0.03	1106.00	947.79	809.03	158.21	158.21	-31.64	840.67
55	1	4	32	1	571500.00	3.00	0.03	506.00	362.18	366.49	143.82	143.82	-28.76	395.26
56	1	5	32	1	571500.00	3.00	0.03	513.00	369.18	370.09	143.82	143.82	-28.76	398.85
57	1	6	32	1	571500.00	3.00	0.03	276.00	132.18	132.83	143.82	143.82	-28.76	161.59
58	1	7	32	1	563250.77	2.99	213.00	130.00	-13.82	121.24	143.82	143.82	-28.76	150.00
59	1	8	32	1	551723.49	2.97	213.00	77.00	-66.82	121.24	143.82	143.82	-28.76	150.00
60	1	9	32	1	561476.99	2.98	213.00	429.00	285.18	121.24	143.82	143.82	-28.76	150.00
61	1	10	32	1	571500.00	3.00	0.03	1205.00	1061.18	897.31	143.82	143.82	-28.76	926.08
62	1	11	32	1	571500.00	3.00	0.03	400.00	227.41	232.16	172.59	172.59	-34.52	266.68
63	1	12	32	1	571500.00	3.00	0.03	438.00	258.22	262.38	179.78	179.78	-35.96	298.34
64	1	1	33	1	571500.00	3.00	0.03	526.00	346.22	349.00	179.78	179.78	-35.96	384.96
65	1	2	33	1	571500.00	3.00	0.03	909.00	736.41	739.39	172.59	172.59	-34.52	773.91
66	1	3	33	1	571500.00	3.00	0.03	1224.00	1065.79	1069.34	158.21	158.21	-31.64	1100.98
67	1	4	33	1	571500.00	3.00	0.03	655.00	511.18	515.49	143.82	143.82	-28.76	544.26
68	1	5	33	1	571500.00	3.00	0.03	348.00	204.18	205.09	143.82	143.82	-28.76	233.85
69	1	6	33	1	568380.73	2.99	213.00	212.00	68.18	121.24	143.82	143.82	-28.76	150.00
70	1	7	33	1	571500.00	3.00	0.03	1032.00	888.18	838.37	143.82	143.82	-28.76	867.14
71	1	8	33	1	571500.00	3.00	0.03	1237.00	1093.18	1093.88	143.82	143.82	-28.76	1122.64
72	1	9	33	1	571500.00	3.00	0.03	524.00	380.18	380.14	143.82	143.82	-28.76	408.90
73	1	10	33	1	571500.00	3.00	0.03	385.00	241.18	240.27	143.82	143.82	-28.76	269.03
74	1	11	33	1	571500.00	3.00	0.03	354.00	181.41	186.16	172.59	172.59	-34.52	220.68
75	1	12	33	1	571500.00	3.00	0.03	712.00	532.22	536.38	179.78	179.78	-35.96	572.34
76	1	1	34	1	562142.04	2.98	213.00	139.00	-40.78	114.04	179.78	179.78	-35.96	150.00
77	1	2	34	1	571500.00	3.00	0.03	459.00	286.41	120.74	172.59	172.59	-34.52	155.26
78	1	3	34	1	571500.00	3.00	0.03	1195.00	1036.79	1040.34	158.21	158.21	-31.64	1071.98
79	1	4	34	1	571500.00	3.00	0.03	550.00	406.18	410.49	143.82	143.82	-28.76	439.26
80	1	5	34	1	571500.00	3.00	0.03	307.00	163.18	164.09	143.82	143.82	-28.76	192.85
81	1	6	34	1	567309.41	2.99	213.00	194.00	50.18	121.24	143.82	143.82	-28.76	150.00
82	1	7	34	1	561579.28	2.98	213.00	171.00	27.18	121.24	143.82	143.82	-28.76	150.00
83	1	8	34	1	571500.00	3.00	0.03	513.00	369.18	208.49	143.82	143.82	-28.76	237.26
84	1	9	34	1	571500.00	3.00	0.03	424.00	280.18	280.14	143.82	143.82	-28.76	308.90
85	1	10	34	1	571500.00	3.00	0.03	620.00	476.18	475.27	143.82	143.82	-28.76	504.03
86	1	11	34	1	571500.00	3.00	0.03	1219.00	1046.41	1051.16	172.59	172.59	-34.52	1085.68
87	1	12	34	1	571500.00	3.00	0.03	566.00	386.22	390.38	179.78	179.78	-35.96	426.34
88	1	1	35	1	571500.00	3.00	0.03	354.00	174.22	177.00	179.78	179.78	-35.96	212.96

RUN22 (CONTINUED)

LOC NO=					4.	4.	4.	4.	4.	4.	4.	4.	213.	213.
PER	DY	MO	YR	DW	RES NO.4 EOP STOR	RES NO.4 LEVEL	RES NO.4 CASE	RES NO.4 LOCAL IN	RES NO.4 INFLOW	RES NO.4 OUTFLOW	RES NO.4 DIV REQU	RES NO.4 DIVERSIO	C.P. 213 DIVERSIO	C.P. 213 FLOW REQ
89	1	2	35	1	571500.00	3.00	0.03	1044.00	871.41	874.39	172.59	172.59	-34.52	908.91
90	1	3	35	1	571500.00	3.00	0.03	763.00	604.79	608.34	158.21	158.21	-31.64	639.98
91	1	4	35	1	571500.00	3.00	0.03	545.00	401.18	405.49	143.82	143.82	-28.76	434.26
92	1	5	35	1	571500.00	3.00	0.03	388.00	244.18	245.09	143.82	143.82	-28.76	273.85
93	1	6	35	1	571500.00	3.00	0.03	1177.00	1033.18	1033.83	143.82	143.82	-28.76	1062.59
94	1	7	35	1	570754.82	3.00	213.00	252.00	108.18	121.24	143.82	143.82	-28.76	150.00
95	1	8	35	1	565996.57	2.99	213.00	187.00	43.18	121.24	143.82	143.82	-28.76	150.00
96	1	9	35	1	560873.65	2.98	213.00	179.00	35.18	121.24	143.82	143.82	-28.76	150.00
97	1	10	35	1	571500.00	3.00	0.03	872.00	728.18	554.50	143.82	143.82	-28.76	583.27
98	1	11	35	1	571500.00	3.00	0.03	697.00	524.41	529.16	172.59	172.59	-34.52	563.68
99	1	12	35	1	571500.00	3.00	0.03	613.00	433.22	437.38	179.78	179.78	-35.96	473.34
100	1	1	36	1	571500.00	3.00	0.03	331.00	151.22	154.00	179.78	179.78	-35.96	189.96
101	1	2	36	1	571500.00	3.00	0.03	3094.00	2921.41	2924.29	172.59	172.59	-34.52	2958.81
102	1	3	36	1	571500.00	3.00	0.03	820.00	661.79	665.34	158.21	158.21	-31.64	696.98
103	1	4	36	1	571500.00	3.00	0.03	354.00	210.18	214.49	143.82	143.82	-28.76	243.26
104	1	5	36	1	571500.00	3.00	0.03	268.00	124.18	125.09	143.82	143.82	-28.76	153.85
105	1	6	36	1	563262.18	2.99	213.00	126.00	-17.82	121.24	143.82	143.82	-28.76	150.00
106	1	7	36	1	551009.49	2.96	213.00	65.00	-78.82	121.24	143.82	143.82	-28.76	150.00
107	1	8	36	1	537385.75	2.94	213.00	43.00	-100.82	121.24	143.82	143.82	-28.76	150.00
108	1	9	36	1	529942.80	2.93	213.00	140.00	-3.82	121.24	143.82	143.82	-28.76	150.00
109	1	10	36	1	524191.59	2.92	213.00	172.00	28.18	121.24	143.82	143.82	-28.76	150.00
110	1	11	36	1	540537.50	2.95	213.00	560.00	387.41	115.48	172.59	172.59	-34.52	150.00
111	1	12	36	1	571500.00	3.00	0.03	1004.00	824.22	324.11	179.78	179.78	-35.96	360.06
112	1	1	37	1	571500.00	3.00	0.03	859.00	679.22	682.00	179.78	179.78	-35.96	717.96
113	1	2	37	1	571500.00	3.00	0.03	679.00	506.41	509.39	172.59	172.59	-34.52	543.91
114	1	3	37	1	571500.00	3.00	0.03	1282.00	1123.79	1127.34	158.21	158.21	-31.64	1158.98
115	1	4	37	1	571500.00	3.00	0.03	793.00	649.18	653.49	143.82	143.82	-28.76	682.26
116	1	5	37	1	571500.00	3.00	0.03	364.00	220.18	221.09	143.82	143.82	-28.76	249.85
117	1	6	37	1	571500.00	3.00	0.03	270.00	126.18	126.83	143.82	143.82	-28.76	155.59
118	1	7	37	1	571500.00	3.00	0.03	319.00	175.18	176.12	143.82	143.82	-28.76	204.88
119	1	8	37	1	569017.73	3.00	213.00	224.00	80.18	121.24	143.82	143.82	-28.76	150.00
120	1	9	37	1	571500.00	3.00	0.03	753.00	609.18	567.42	143.82	143.82	-28.76	596.19
			SUM =		67713574.85	358.49	8522.40	66490.00	47792.85	47963.89	18697.15	18697.15	-3739.43	51703.32
			MAX =		571500.00	3.00	213.00	3094.00	2921.41	2924.29	179.78	179.78	-28.76	2958.81
			MIN =		498981.54	2.87	0.03	43.00	-100.82	114.04	143.82	143.82	-35.96	150.00
			PMAX=		1.00	1.00	12.00	101.00	101.00	101.00	3.00	3.00	1.00	101.00
			AVG =		564279.79	2.99	71.02	554.08	398.27	399.70	155.81	155.81	-31.16	430.86
			PMIN=		40.00	40.00	1.00	107.00	107.00	39.00	1.00	1.00	3.00	12.00

RUN23 - SUMMARY OUTPUT

YIELD DETERMINED BY OPTIMIZATION
RES-LOC TYPE-OPT OPT. VALUES
NEW CRITICAL PERIOD= -33.046 0.050 0.024

*OPSUM

T1 SINGLE RESERVOIR WATER SUPPLY SYSTEM
T2 *OPTIMIZATION OF ALL YIELDS* RUN 23
T3 MONTHLY FLOW 1927-1937 RECORD (120 PERIODS)

J7 4.90 0.00 0.00 0.00 0.00 0.00 0.00 2.00 6.00 0.05

LOCATION	TRIAL	ERROR RATIO	ERROR (STG)	NUM. PERIODS	ROUTING ST PER	AVG INF.	AVG REL	AVG SPILL	TOP.CON STOR.	RATIO STG/Q	DRAW ST PER	DRAW LENGTH	AV DRAW REL LOC=	ANNUAL DES Q 4	ANNUAL REQ Q 4	ANNUAL DIV 4
SINGLE RES	1	0.2303	-16399.	27	1929.10	159.	190.	190.	71500.	0.1774	1930.07	7.	92.	0.	0.	217.
SINGLE RES	2	0.1006	-7164.	27	1929.10	186.	212.	212.	71500.	0.1774	1930.07	7.	97.	0.	0.	190.
SINGLE RES	3	0.0638	-4540.	27	1929.10	197.	221.	221.	71500.	0.1774	1930.07	7.	102.	0.	0.	179.
SINGLE RES	4	0.0578	-4119.	27	1929.10	204.	226.	226.	71500.	0.1774	1930.07	7.	108.	0.	0.	173.
SINGLE RES	5	0.6599	46982.	27	1929.10	360.	361.	361.	71500.	0.1774	1930.07	6.	147.	0.	0.	17.
SINGLE RES	6	0.1357	9663.	27	1929.10	252.	267.	267.	71500.	0.1774	1930.07	7.	125.	0.	0.	124.
SINGLE RES	7	0.0239	1700.	27	1929.10	227.	245.	245.	71500.	0.1774	1930.07	7.	118.	0.	0.	150.
SINGLE RES	1	0.0239	1700.	120	1927.10	404.	406.	397.	71500.	0.1774	1930.07	7.	118.	0.	0.	150.

RUN23 (CONTINUED)

SUMMARY BY PERIOD FLOOD= 8

LOC NO=					4.	4.	4.	4.	4.	4.	4.	4.	213.	213.
CODE=					4.110	4.130	4.120	4.240	4.090	4.100	4.300	4.030	213.030	213.040
PER	DY	MO	YR	DW	RES NO.4 EOP STOR	RES NO.4 LEVEL	RES NO.4 CASE	RES NO.4 LOCAL IN	RES NO.4 INFLOW	RES NO.4 OUTFLOW	RES NO.4 DIV REQU	RES NO.4 DIVERSIO	C.P. 213 DIVERSIO	C.P. 213 FLOW REG
1	1	10	27	1	571500.00	3.00	0.03	1222.00	1083.77	1082.86	138.23	138.23	-27.65	1110.51
2	1	11	27	1	571500.00	3.00	0.03	1268.00	1102.12	1106.87	165.88	165.88	-33.18	1140.05
3	1	12	27	1	571500.00	3.00	0.03	497.00	324.21	328.37	172.79	172.79	-34.56	362.93
4	1	1	28	1	571500.00	3.00	0.03	733.00	560.21	562.99	172.79	172.79	-34.56	597.55
5	1	2	28	1	571500.00	3.00	0.03	647.00	481.12	484.00	165.88	165.88	-33.18	517.18
6	1	3	28	1	571500.00	3.00	0.03	1385.00	1232.95	1236.50	152.05	152.05	-30.41	1266.91
7	1	4	28	1	571500.00	3.00	0.03	999.00	860.77	865.09	138.23	138.23	-27.65	892.73
8	1	5	28	1	571500.00	3.00	0.03	1365.00	1226.77	1227.68	138.23	138.23	-27.65	1255.32
9	1	6	28	1	571500.00	3.00	0.03	1308.00	1169.77	1170.42	138.23	138.23	-27.65	1198.07
10	1	7	28	1	571500.00	3.00	0.03	360.00	221.77	222.71	138.23	138.23	-27.65	250.36
11	1	8	28	1	571500.00	3.00	0.03	282.00	143.77	144.47	138.23	138.23	-27.65	172.11
12	1	9	28	1	566464.66	2.93	213.00	176.00	37.77	122.35	138.23	138.23	-27.65	150.00
13	1	10	28	1	562257.52	2.87	213.00	193.00	54.77	122.35	138.23	138.23	-27.65	150.00
14	1	11	28	1	561217.79	2.85	213.00	261.00	95.12	116.82	165.88	165.88	-33.18	150.00
15	1	12	28	1	571500.00	3.00	0.03	481.00	308.21	144.91	172.79	172.79	-34.56	179.47
16	1	1	29	1	571500.00	3.00	0.03	431.00	258.21	260.99	172.79	172.79	-34.56	295.55
17	1	2	29	1	571500.00	3.00	0.03	1130.00	964.12	967.10	165.88	165.88	-33.18	1000.28
18	1	3	29	1	571500.00	3.00	0.03	1230.00	1077.95	1081.50	152.05	152.05	-30.41	1111.91
19	1	4	29	1	571500.00	3.00	0.03	810.00	671.77	676.09	138.23	138.23	-27.65	703.73
20	1	5	29	1	571500.00	3.00	0.03	283.00	144.77	145.68	138.23	138.23	-27.65	173.32
21	1	6	29	1	565730.64	2.92	213.00	163.00	24.77	122.35	138.23	138.23	-27.65	150.00
22	1	7	29	1	558982.99	2.82	213.00	150.00	11.77	122.35	138.23	138.23	-27.65	150.00
23	1	8	29	1	555785.76	2.77	213.00	208.00	69.77	122.35	138.23	138.23	-27.65	150.00
24	1	9	29	1	571500.00	3.00	0.03	608.00	469.77	205.65	138.23	138.23	-27.65	233.30
25	1	10	29	1	571500.00	3.00	0.03	614.00	475.77	474.86	138.23	138.23	-27.65	502.51
26	1	11	29	1	571500.00	3.00	0.03	553.00	387.12	391.87	165.88	165.88	-33.18	425.05
27	1	12	29	1	571500.00	3.00	0.03	524.00	351.21	355.37	172.79	172.79	-34.56	389.93
28	1	1	30	1	571500.00	3.00	0.03	475.00	302.21	304.99	172.79	172.79	-34.56	339.55
29	1	2	30	1	571500.00	3.00	0.03	760.00	594.12	597.10	165.88	165.88	-33.18	630.28
30	1	3	30	1	571500.00	3.00	0.03	891.00	738.95	742.50	152.05	152.05	-30.41	772.91
31	1	4	30	1	571500.00	3.00	0.03	491.00	352.77	357.09	138.23	138.23	-27.65	384.73
32	1	5	30	1	571500.00	3.00	0.03	575.00	436.77	437.68	138.23	138.23	-27.65	465.32
33	1	6	30	1	571500.00	3.00	0.03	317.00	178.77	179.42	138.23	138.23	-27.65	207.07
34	1	7	30	1	561988.24	2.86	213.00	105.00	-33.23	122.35	138.23	138.23	-27.65	150.00
35	1	8	30	1	551781.08	2.72	213.00	94.00	-44.23	122.35	138.23	138.23	-27.65	150.00
36	1	9	30	1	540736.26	2.56	213.00	75.00	-63.23	122.35	138.23	138.23	-27.65	150.00
37	1	10	30	1	529352.06	2.39	213.00	76.00	-62.23	122.35	138.23	138.23	-27.65	150.00
38	1	11	30	1	518736.70	2.24	213.00	102.00	-63.88	116.82	165.88	165.88	-33.18	150.00
39	1	12	30	1	508716.30	2.10	213.00	124.00	-48.79	115.44	172.79	172.79	-34.56	150.00
40	1	1	31	1	502000.00	2.00	213.00	164.00	-8.79	100.84	172.79	172.79	-34.56	135.39
41	1	2	31	1	523501.48	2.31	213.00	669.00	503.12	116.82	165.88	165.88	-33.18	150.00
42	1	3	31	1	560935.17	2.85	213.00	878.00	725.95	119.59	152.05	152.05	-30.41	150.00

RUN23 (CONTINUED)

LOC NO=					4.	4.	4.	4.	4.	4.	4.	4.	213.	213.
PER	DY	MO	YR	DW	RES NO.4 EOP STOR	RES NO.4 LEVEL	RES NO.4 CASE	RES NO.4 LOCAL IN	RES NO.4 INFLOW	RES NO.4 OUTFLOW	RES NO.4 DIV REQU	RES NO.4 DIVERSIO	C.P. 213 DIVERSIO	C.P. 213 FLOW REG
43	1	4	31	1	571500.00	3.00	0.03	804.00	665.77	492.28	138.23	138.23	-27.65	519.93
44	1	5	31	1	571500.00	3.00	0.03	367.00	228.77	229.68	138.23	138.23	-27.65	257.32
45	1	6	31	1	571500.00	3.00	0.03	420.00	281.77	282.42	138.23	138.23	-27.65	310.07
46	1	7	31	1	568200.62	2.95	213.00	206.00	67.77	122.35	138.23	138.23	-27.65	150.00
47	1	8	31	1	561133.15	2.85	213.00	145.00	6.77	122.35	138.23	138.23	-27.65	150.00
48	1	9	31	1	550028.62	2.69	213.00	74.00	-64.23	122.35	138.23	138.23	-27.65	150.00
49	1	10	31	1	538885.10	2.53	213.00	80.00	-58.23	122.35	138.23	138.23	-27.65	150.00
50	1	11	31	1	530148.95	2.41	213.00	133.00	-32.88	116.82	165.88	165.88	-33.18	150.00
51	1	12	31	1	541792.76	2.57	213.00	475.00	302.21	115.44	172.79	172.79	-34.56	150.00
52	1	1	32	1	550818.58	2.70	213.00	433.00	260.21	115.44	172.79	172.79	-34.56	150.00
53	1	2	32	1	565183.89	2.91	213.00	530.00	364.12	116.82	165.88	165.88	-33.18	150.00
54	1	3	32	1	571500.00	3.00	0.03	1106.00	953.95	854.65	152.05	152.05	-30.41	885.06
55	1	4	32	1	571500.00	3.00	0.03	506.00	367.77	372.09	138.23	138.23	-27.65	399.73
56	1	5	32	1	571500.00	3.00	0.03	513.00	374.77	375.68	138.23	138.23	-27.65	403.32
57	1	6	32	1	571500.00	3.00	0.03	276.00	137.77	138.42	138.23	138.23	-27.65	166.07
58	1	7	32	1	563525.96	2.89	213.00	130.00	-8.23	122.35	138.23	138.23	-27.65	150.00
59	1	8	32	1	552273.99	2.72	213.00	77.00	-61.23	122.35	138.23	138.23	-27.65	150.00
60	1	9	32	1	562293.70	2.87	213.00	429.00	290.77	122.35	138.23	138.23	-27.65	150.00
61	1	10	32	1	571500.00	3.00	0.03	1205.00	1066.77	916.18	138.23	138.23	-27.65	943.83
62	1	11	32	1	571500.00	3.00	0.03	400.00	234.12	238.87	165.88	165.88	-33.18	272.05
63	1	12	32	1	571500.00	3.00	0.03	438.00	265.21	269.37	172.79	172.79	-34.56	303.93
64	1	1	33	1	571500.00	3.00	0.03	526.00	353.21	355.99	172.79	172.79	-34.56	390.55
65	1	2	33	1	571500.00	3.00	0.03	909.00	743.12	746.10	165.88	165.88	-33.18	779.28
66	1	3	33	1	571500.00	3.00	0.03	1224.00	1071.95	1075.50	152.05	152.05	-30.41	1105.91
67	1	4	33	1	571500.00	3.00	0.03	655.00	516.77	521.09	138.23	138.23	-27.65	548.73
68	1	5	33	1	571500.00	3.00	0.03	348.00	209.77	210.68	138.23	138.23	-27.65	238.32
69	1	6	33	1	568647.02	2.96	213.00	212.00	73.77	122.35	138.23	138.23	-27.65	150.00
70	1	7	33	1	571500.00	3.00	0.03	1032.00	893.77	848.30	138.23	138.23	-27.65	875.95
71	1	8	33	1	571500.00	3.00	0.03	1237.00	1098.77	1099.47	138.23	138.23	-27.65	1127.11
72	1	9	33	1	571500.00	3.00	0.03	524.00	385.77	385.73	138.23	138.23	-27.65	413.38
73	1	10	33	1	571500.00	3.00	0.03	385.00	246.77	245.86	138.23	138.23	-27.65	273.51
74	1	11	33	1	571500.00	3.00	0.03	354.00	188.12	192.87	165.88	165.88	-33.18	226.05
75	1	12	33	1	571500.00	3.00	0.03	712.00	539.21	543.37	172.79	172.79	-34.56	577.93
76	1	1	34	1	562486.25	2.87	213.00	139.00	-33.79	115.44	172.79	172.79	-34.56	150.00
77	1	2	34	1	571500.00	3.00	0.03	459.00	293.12	133.65	165.88	165.88	-33.18	166.83
78	1	3	34	1	571500.00	3.00	0.03	1195.00	1042.95	1046.50	152.05	152.05	-30.41	1076.91
79	1	4	34	1	571500.00	3.00	0.03	550.00	411.77	416.09	138.23	138.23	-27.65	443.73
80	1	5	34	1	571500.00	3.00	0.03	307.00	168.77	169.68	138.23	138.23	-27.65	197.32
81	1	6	34	1	567575.69	2.94	213.00	194.00	55.77	122.35	138.23	138.23	-27.65	150.00
82	1	7	34	1	562120.94	2.87	213.00	171.00	32.77	122.35	138.23	138.23	-27.65	150.00
83	1	8	34	1	571500.00	3.00	0.03	513.00	374.77	222.90	138.23	138.23	-27.65	250.54
84	1	9	34	1	571500.00	3.00	0.03	424.00	285.77	285.73	138.23	138.23	-27.65	313.38
85	1	10	34	1	571500.00	3.00	0.03	620.00	481.77	480.86	138.23	138.23	-27.65	508.51
86	1	11	34	1	571500.00	3.00	0.03	1219.00	1053.12	1057.87	165.88	165.88	-33.18	1091.05
87	1	12	34	1	571500.00	3.00	0.03	566.00	393.21	397.37	172.79	172.79	-34.56	431.93
88	1	1	35	1	571500.00	3.00	0.03	354.00	181.21	183.99	172.79	172.79	-34.56	218.55

RUN23 (CONTINUED)

LOC NO=					4.	4.	4.	4.	4.	4.	4.	4.	213.	213.
PER	DY	MO	YR	DW	RES NO.4 EOP STOR	RES NO.4 LEVEL	RES NO.4 CASE	RES NO.4 LOCAL IN	RES NO.4 INFLOW	RES NO.4 OUTFLOW	RES NO.4 DIV REQU	RES NO.4 DIVERSIO	C.P. 213 DIVERSIO	C.P. 213 FLOW REG
89	1	2	35	1	571500.00	3.00	0.03	1044.00	878.12	881.10	165.88	165.88	-33.18	914.28
90	1	3	35	1	571500.00	3.00	0.03	763.00	610.95	614.50	152.05	152.05	-30.41	644.91
91	1	4	35	1	571500.00	3.00	0.03	545.00	406.77	411.09	138.23	138.23	-27.65	438.73
92	1	5	35	1	571500.00	3.00	0.03	388.00	249.77	250.68	138.23	138.23	-27.65	278.32
93	1	6	35	1	571500.00	3.00	0.03	1177.00	1038.77	1039.42	138.23	138.23	-27.65	1067.07
94	1	7	35	1	571030.02	2.99	213.00	252.00	113.77	122.35	138.23	138.23	-27.65	150.00
95	1	8	35	1	566547.06	2.93	213.00	187.00	48.77	122.35	138.23	138.23	-27.65	150.00
96	1	9	35	1	561690.35	2.86	213.00	179.00	40.77	122.35	138.23	138.23	-27.65	150.00
97	1	10	35	1	571500.00	3.00	0.03	872.00	733.77	573.37	138.23	138.23	-27.65	601.02
98	1	11	35	1	571500.00	3.00	0.03	697.00	531.12	535.87	165.88	165.88	-33.18	569.05
99	1	12	35	1	571500.00	3.00	0.03	613.00	440.21	444.37	172.79	172.79	-34.56	478.93
100	1	1	36	1	571500.00	3.00	0.03	331.00	158.21	160.99	172.79	172.79	-34.56	195.55
101	1	2	36	1	571500.00	3.00	0.03	3094.00	2928.12	2931.00	165.88	165.88	-33.18	2964.18
102	1	3	36	1	571500.00	3.00	0.03	820.00	667.95	671.50	152.05	152.05	-30.41	701.91
103	1	4	36	1	571500.00	3.00	0.03	354.00	215.77	220.09	138.23	138.23	-27.65	247.73
104	1	5	36	1	571500.00	3.00	0.03	268.00	129.77	130.68	138.23	138.23	-27.65	158.32
105	1	6	36	1	563528.47	2.89	213.00	126.00	-12.23	122.35	138.23	138.23	-27.65	150.00
106	1	7	36	1	551551.14	2.71	213.00	65.00	-73.23	122.35	138.23	138.23	-27.65	150.00
107	1	8	36	1	538202.79	2.52	213.00	43.00	-95.23	122.35	138.23	138.23	-27.65	150.00
108	1	9	36	1	531026.05	2.42	213.00	140.00	1.77	122.35	138.23	138.23	-27.65	150.00
109	1	10	36	1	525549.15	2.34	213.00	172.00	33.77	122.35	138.23	138.23	-27.65	150.00
110	1	11	36	1	542219.55	2.58	213.00	560.00	394.12	116.82	165.88	165.88	-33.18	150.00
111	1	12	36	1	571500.00	3.00	0.03	1004.00	831.21	358.49	172.79	172.79	-34.56	393.05
112	1	1	37	1	571500.00	3.00	0.03	859.00	686.21	688.99	172.79	172.79	-34.56	723.55
113	1	2	37	1	571500.00	3.00	0.03	679.00	513.12	516.10	165.88	165.88	-33.18	549.28
114	1	3	37	1	571500.00	3.00	0.03	1282.00	1129.95	1133.50	152.05	152.05	-30.41	1163.91
115	1	4	37	1	571500.00	3.00	0.03	793.00	654.77	659.09	138.23	138.23	-27.65	686.73
116	1	5	37	1	571500.00	3.00	0.03	364.00	225.77	226.68	138.23	138.23	-27.65	254.32
117	1	6	37	1	571500.00	3.00	0.03	270.00	131.77	132.42	138.23	138.23	-27.65	160.07
118	1	7	37	1	571500.00	3.00	0.03	319.00	180.77	181.71	138.23	138.23	-27.65	209.36
119	1	8	37	1	569292.90	2.97	213.00	224.00	85.77	122.35	138.23	138.23	-27.65	150.00
120	1	9	37	1	571500.00	3.00	0.03	753.00	614.77	577.64	138.23	138.23	-27.65	605.29
			SUM =		67753939.36	348.12	8522.40	66490.00	48519.88	48692.32	17970.12	17970.12	-3594.02	52286.34
			MAX =		571500.00	3.00	213.00	3094.00	2928.12	2931.00	172.79	172.79	-27.65	2964.18
			MIN =		502000.00	2.00	0.03	43.00	-95.23	100.84	138.23	138.23	-34.56	135.39
			PMAX=		1.00	1.00	12.00	101.00	101.00	101.00	3.00	3.00	1.00	101.00
			AVG =		564616.16	2.90	71.02	554.08	404.33	405.77	149.75	149.75	-29.95	435.72
			PMIN=		40.00	40.00	1.00	107.00	107.00	40.00	1.00	1.00	3.00	40.00

RUN24 - SUMMARY OUTPUT

RESERVOIR OPERATION BY PERIOD

CUM TIME= 1

*ROPER 1

RES NO=	1	2	3
TITLE=	RES1	RES2	RES3
DIV Q	0.	0.	0.
INFLOW	268.	305.	100.
OUTFLOW	171.	193.	54.
EOP STOR	3330000.	3760000.	1540000.
CASE=	0.03	0.03	0.03
LEVEL	5.000	5.000	5.000
PCT FC	0.00	0.00	0.00
EQ LEVEL	5.000	5.000	5.000

CUM TIME= 2

*ROPER 2

RES NO=	1	2	3
TITLE=	RES1	RES2	RES3
DIV Q	0.	0.	0.
INFLOW	230.	345.	78.
OUTFLOW	230.	345.	78.
EOP STOR	3330000.	3760000.	1540000.
CASE=	0.03	0.03	0.03
LEVEL	5.000	5.000	5.000
PCT FC	0.00	0.00	0.00
EQ LEVEL	5.000	5.000	5.000

CUM TIME= 3

*ROPER 3

RES NO=	1	2	3
TITLE=	RES1	RES2	RES3
DIV Q	0.	0.	0.
INFLOW	211.	317.	66.
OUTFLOW	211.	317.	66.
EOP STOR	3330000.	3760000.	1540000.
CASE=	0.03	0.03	0.03
LEVEL	5.000	5.000	5.000
PCT FC	0.00	0.00	0.00
EQ LEVEL	5.000	5.000	5.000

CUM TIME= 4

*ROPER 4

RES NO=	1	2	3
TITLE=	RES1	RES2	RES3
DIV Q	0.	9.	6.
INFLOW	20.	22.	20.
OUTFLOW	20.	71.	20.
EOP STOR	3330000.	3630400.	1540000.
CASE=	0.03	4.00	0.03
LEVEL	5.000	4.705	5.000
PCT FC	0.00	0.00	0.00
EQ LEVEL	5.000	4.705	5.000

CUM TIME= 5

*ROPER 5

RES NO=	1	2	3
TITLE=	RES1	RES2	RES3
DIV Q	0.	18.	7.
INFLOW	21.	13.	12.
OUTFLOW	21.	127.	12.
EOP STOR	3330000.	3322384.	1540000.
CASE=	0.03	4.00	0.03
LEVEL	5.000	4.005	5.000
PCT FC	0.00	0.00	0.00
EQ LEVEL	5.000	4.005	5.000

CUM TIME= 6

*ROPER 6

RES NO=	1	2	3
TITLE=	RES1	RES2	RES3
DIV Q	0.	28.	9.
INFLOW	7.	-19.	3.
OUTFLOW	7.	94.	58.
EOP STOR	3330000.	3021130.	1393961.
CASE=	0.03	4.00	4.00
LEVEL	5.000	3.321	3.321
PCT FC	0.00	0.00	0.00
EQ LEVEL	5.000	3.833	3.321

CUM TIME= 7

*ROPER 7

RES NO=	1	2	3
TITLE=	RES1	RES2	RES3
DIV Q	0.	21.	7.
INFLOW	4.	71.	4.
OUTFLOW	90.	114.	25.
EOP STOR	3104595.	2911368.	1340328.
CASE=	0.05	4.00	4.00
LEVEL	3.833	3.071	3.071
PCT FC	0.00	0.00	0.00
EQ LEVEL	3.833	3.646	3.071

CUM TIME= 8

*ROPER 8

RES NO=	1	2	3
TITLE=	RES1	RES2	RES3
DIV Q	0.	7.	2.
INFLOW	4.	93.	8.
OUTFLOW	98.	63.	11.
EOP STOR	2851816.	2992730.	1332292.
CASE=	0.05	4.00	0.00
LEVEL	3.646	3.256	3.034
PCT FC	0.00	0.00	0.00
EQ LEVEL	3.646	3.550	3.034

CUM TIME= 9

*ROPER 9

RES NO=	1	2	3
TITLE=	RES1	RES2	RES3
DIV Q	0.	0.	0.
INFLOW	4.	56.	11.
OUTFLOW	54.	52.	11.
EOP STOR	2722535.	3002779.	1332292.
CASE=	0.05	4.00	0.00
LEVEL	3.550	3.279	3.034
PCT FC	0.00	0.00	0.00
EQ LEVEL	3.550	3.483	3.034

CUM TIME= 10

*ROPER 10

RES NO=	1	2	3
TITLE=	RES1	RES2	RES3
DIV Q	0.	0.	0.
INFLOW	6.	43.	11.
OUTFLOW	40.	53.	11.
EOP STOR	2632611.	2974853.	1332292.
CASE=	0.05	4.00	0.00
LEVEL	3.483	3.216	3.034
PCT FC	0.00	0.00	0.00
EQ LEVEL	3.483	3.418	3.034

CUM TIME= 11

*ROPER 11

RES NO=	1	2	3
TITLE=	RES1	RES2	RES3
DIV Q	0.	0.	0.
INFLOW	17.	58.	20.
OUTFLOW	50.	15.	11.
EOP STOR	2543730.	3090518.	1355059.
CASE=	0.05	4.00	0.00
LEVEL	3.418	3.478	3.140
PCT FC	0.00	0.00	0.00
EQ LEVEL	3.418	3.433	3.140

CUM TIME= 12

*ROPER 12

RES NO=	1	2	3
TITLE=	RES1	RES2	RES3
DIV Q	0.	0.	0.
INFLOW	15.	8.	24.
OUTFLOW	0.	14.	11.
EOP STOR	2580018.	3074793.	1386508.
CASE=	0.00	0.00	0.00
LEVEL	3.444	3.443	3.286
PCT FC	0.00	0.00	0.00
EQ LEVEL	3.444	3.444	3.286

CUM TIME= 13

*ROPER 13

RES NO=	1	2	3
TITLE=	RES1	RES2	RES3
DIV Q	0.	0.	0.
INFLOW	47.	71.	34.
OUTFLOW	47.	44.	11.
EOP STOR	2579439.	3147689.	1448112.
CASE=	0.05	4.00	0.00
LEVEL	3.444	3.608	3.573
PCT FC	0.00	0.00	0.00
EQ LEVEL	3.444	3.484	3.573

CUM TIME= 14

*ROPER 14

RES NO=	1	2	3
TITLE=	RES1	RES2	RES3
DIV Q	0.	0.	0.
INFLOW	59.	30.	31.
OUTFLOW	0.	20.	22.
EOP STOR	2732367.	3174735.	1469018.
CASE=	0.00	4.00	4.00
LEVEL	3.557	3.670	3.670
PCT FC	0.00	0.00	0.00
EQ LEVEL	3.557	3.585	3.670