Documentation of a Finite-Element Two-Layer Model for Simulation of Ground-Water Flow

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CONVERSION FACTORS

The inch-pound system of units is used in this report. For readers who prefer the International System of units (SI), the conversion factors for the terms used in this report are listed below:

Multiply inch-pound unit	By	To obtain SI (metric) unit
ft (feet)	0.3048	m (meters)
ft^3/s (cubic feet per second)	0.02832	m^3/s (cubic meters per second)
ft^2/s (feet squared per second)	0.09290	m^2/s (meters squared per second)
mi (miles)	1.609	km (kilometers)

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ABSTRACT

This report documents a finite-element model for simulation of ground-water flow in a two-aquifer system where the two aquifers are coupled by a leakage term that represents flow through a confining layer separating the two aquifers. The model was developed by Timothy J. Durbin (U.S. Geological Survey) for use in ground-water investigations in southern California.

The documentation assumes that the reader is familiar with the physics of ground-water flow, numerical methods of solving partial-differential equations, and the FORTRAN IV computer language. It was prepared as part of the investigations made by the U.S. Geological Survey in cooperation with the San Bernardino Valley Municipal Water District.

THEORETICAL DEVELOPMENT

Much of the theoretical development presented in this report was taken from Durbin (1978). The model assumes that:

1. Ground-water movement in the two aquifers is horizontal.
2. Ground-water movement in the confining layers is vertical.
3. Confining layers have negligible storage.
4. Changes in ground-water storage in the aquifers occur instantaneously with changes in hydraulic head.
5. Physical parameters of the system do not change with time.
6. The aquifers are bounded by an impermeable boundary.
7. Recharge occurs instantaneously.
8. The aquifers are isotropic.
9. The barrier effect of faults can be represented by a zone of low transmissivity.

The mathematical model is based on the governing equations of ground-water flow, which are approximated numerically by a Galerkin finite-element method. The resulting system of simultaneous equations is solved by a point-successive over-relaxation procedure.

Ground-Water Flow Equation

The flow of ground water in a porous medium in two dimensions may be expressed as:

$$\frac{\partial}{\partial x}\left(T\frac{\partial h}{\partial x}\right) + \frac{\partial}{\partial y}\left(T\frac{\partial h}{\partial y}\right) - S\frac{\partial h}{\partial t} - W - \frac{K}{b}(h - h_a) = 0 \qquad (1)$$

where T is the transmissivity of the aquifer, h is the hydraulic head in the aquifer, S is the storage coefficient of the aquifer, W is the flux of a source or sink, K and b are the vertical hydraulic conductivity and the thickness of the confining layers, and h_a is the hydraulic head in the adjacent aquifer.

The Galerkin Finite-Element Concept

To solve the governing equations of ground-water flow numerically, the equations are first expressed by a finite number of parameters. Secondly, we transform the equations of ground-water flow into expressions relating these parameters. If the equations are linear, then the relations among the parameters expressing the solution are also linear, that is, we are led to a linear system of algebraic equations. In this process we cannot avoid dealing with a large system of equations. To ameloriate this situation, it is necessary to choose the parameters in such a way that the resulting coefficient matrix is sparse. One method reflecting this feature is the Galerkin finite-element method.

The Galerkin finite-element method was applied to the analysis of single-aquifer ground-water systems by Pinder and Frind (1972). Extension of the Galerkin finite-element method to the analysis of two-aquifer ground-water systems is presented herein. Development of the solution scheme for this system follows that presented by Pinder and Frind (1972). The difference between their approach and the approach used here results from the selection of a different element shape and the application of the method to a two-aquifer system.

The fundamental idea of the Galerkin finite-element method is to replace a continuous function by values of the function that are specified at a finite number of discrete points called nodes. Function values between these points are calculated using piecewise continuous interpolating functions defined over a finite number of subdomains called elements.

Consider a two-aquifer ground-water system. The first aquifer includes the domain Ω, which is surrounded by the boundary Γ. The second aquifer includes the domain Ω', which is surrounded by the boundary Γ'. Subdivision of this system into triangular elements is shown schematically in figure 1. Domains Ω and Ω' are not everywhere coincident. However, in the areas where these domains are coincident the elements are also coincident, that is, the nodes i, j, and k have the same locations in the x-y plane as the nodes p, q, and r. The development that follows is based in part on the above characteristics of the layout of nodes and elements.

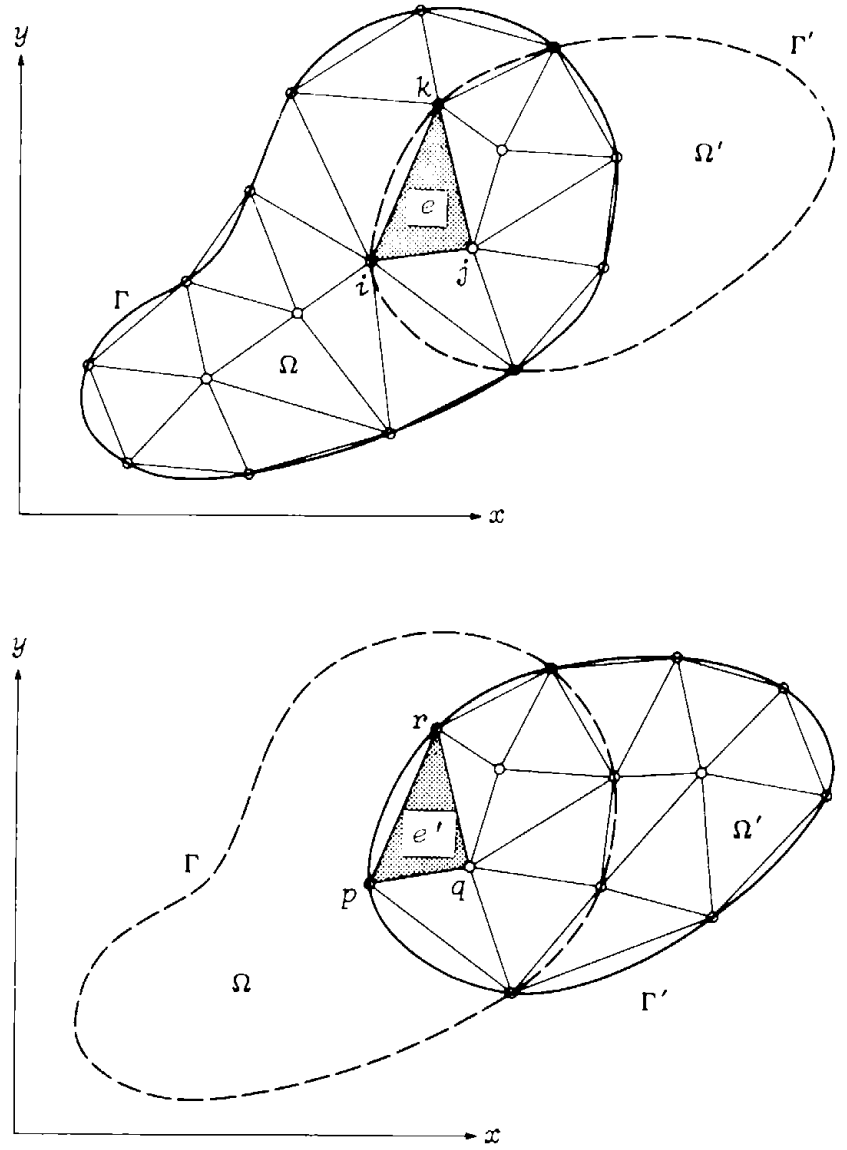

FIGURE 1.--Finite-element discretization scheme used in the mathematical model (from Durbin, 1978).

Galerkin Approximation

Let us define the linear operators L and L' as

$$L(h) \equiv \frac{\partial}{\partial x}\left(T\frac{\partial h}{\partial x}\right) + \frac{\partial}{\partial y}\left(T\frac{\partial h}{\partial y}\right) - S\frac{\partial h}{\partial t} - W - \frac{K}{b}(h-h') = 0 \qquad (2)$$

and

$$L'(h') \equiv \frac{\partial}{\partial x}\left(T'\frac{\partial h'}{\partial x}\right) + \frac{\partial}{\partial y}\left(T'\frac{\partial h'}{\partial y}\right) - S'\frac{\partial h'}{\partial t} - W' - \frac{K}{b}(h'-h) = 0 \qquad (3)$$

where x and y are cartesian coordinates,

T is the transmissivity of the first aquifer,
S is the storage coefficient of the first aquifer,
W is the flux of a source or sink in the first aquifer,
h is the head in the first aquifer,
K is the vertical hydraulic conductivity of the confining layer,
b is the thickness of the confining layer,
T' is the transmissivity of the second aquifer,
S' is the storage coefficient of the second aquifer,
W' is the flux of a source or sink in the second aquifer, and
h' is the head in the second aquifer.

Equations 2 and 3 are to be solved in domains Ω and Ω', which are enclosed by the boundaries Γ and Γ'. The boundary conditions are

$$\frac{\partial h}{\partial n} = 0 \qquad \text{on } \Gamma \qquad (4)$$

and

$$\frac{\partial h'}{\partial n} = 0 \qquad \text{on } \Gamma' \qquad (5)$$

where $\partial/\partial n$ is the outward-pointing normal derivative on Γ and Γ'.

To solve L(h) = 0 and L'(h') = 0, we assume trial solutions of the forms

$$h(x,y,t) \cong \hat{h}(x,y,t) = \sum_{i=1}^{n} C_i(t)\Phi_i(x,y) \tag{6}$$

and

$$h'(x,y,t) \cong \hat{h}'(x,y,t) = \sum_{i=1}^{n'} C_i'(t)\Phi_i'(x,y) \tag{7}$$

where $\hat{h}$ and $\hat{h}'$ are series approximations to h and h', Φ_i and Φ_i' are linearly independent trial functions that are defined over the domains Ω and Ω' and are chosen beforehand, C_i and C_i' are undetermined coefficients, and n and n' are the number of nodal points.

The Galerkin finite-element approximation to equation 2 only will be considered. (It will be shown later how the simultaneous solution to both equations 2 and 3 can be obtained.)

The series approximation to equation 2 will provide an exact representation as n approaches infinity (Forray, 1968, p. 191). For a finite series, the approximation will not exactly satisfy equation 2, and there will be a residual R. The residual is defined by

$$R(x,y,t) = L\left[\sum_{i=1}^{n} C_i(t)\phi_i(x,y)\right] \tag{8}$$

If the trial solution were the exact solution, the residual would vanish. We attempt to force this residual to zero, in an average sense, through our selection of the undetermined coefficients C_i.

The coefficients C_i are calculated by setting the weighted integrals of the residuals to zero. In the Galerkin method (Galerkin, 1915), trial functions are used as weighting functions, that is,

$$\iint_{\Omega} L\left[\sum_{j=1}^{n} C_j(t)\phi_j(x,y)\right]\phi_i(x,y)\,dx\,dy = 0 \tag{9}$$

$$i = 1, 2, \ldots n .$$

From equation 9 we obtain n linear equations, which can be solved for the n values of C_j.

First, equation 9 can be simplified. By expanding equation 9 we obtain

$$\iint_{\Omega}\left[\frac{\partial}{\partial x}\left(T\frac{\partial}{\partial x}\sum_{j=1}^{n} C_j \phi_j\right)+\frac{\partial}{\partial y}\left(T\frac{\partial}{\partial y}\sum_{j=1}^{n} C_j \phi_j\right)\right.$$

$$-\ S\frac{\partial}{\partial t}\sum_{j=1}^{n} C_j \phi_j\ -\ W$$

$$\left.-\ \frac{K}{b}\left(h'-\sum_{j=1}^{n} C_j \phi_j\right)\right]\phi_i\, dxdy = 0 \qquad (10)$$

$$i = 1,\ 2,\ldots\ n.$$

The quantity h', which occurs in the leakage term of equation 10 can be replaced by the trial solution for h'. By making this substitution into equation 10 we obtain

$$\iint_{\Omega}\left[\frac{\partial}{\partial x}\left(T\frac{\partial}{\partial x}\sum_{j=1}^{n} C_j \phi_j\right)+\frac{\partial}{\partial y}\left(T\frac{\partial}{\partial y}\sum_{j=1}^{n} C_j \phi_j\right)\right.$$

$$-\ S\frac{\partial}{\partial t}\sum_{j=1}^{n} C_j \phi_j\ -\ W$$

$$\left.-\ \frac{K}{b}\left(\sum_{j=1}^{n'} C'_j\ \phi'_j-\sum_{j=1}^{n} C_j \phi_j\right)\right]\phi_i\, dxdy = 0 \qquad (11)$$

$$i = 1,\ 2,\ldots\ n\ .$$

Equation 11 can be integrated by parts. By assuming transmissivity to be constant over each element, and recalling that C_j is a function of time only, we obtain from integration by parts of equation 8 (Pinder and Frind, 1972)

$$\iint_{\Omega} \sum_{j=1}^{n} \left(T\frac{\partial \phi_i}{\partial x}\frac{\partial \phi_j}{\partial x} + T\frac{\partial \phi_i}{\partial y}\frac{\partial \phi_j}{\partial y} + \frac{K}{b}\phi_i \phi_j \right) C_j \, dxdy$$

$$+\iint_{\Omega} S\phi_i \sum_{j=1}^{n} \phi_j \frac{dC_j}{\partial t} dxdy$$

$$+\iint_{\Omega} \phi_i W dxdy$$

$$-\iint_{\Omega} \phi_i \frac{K}{b} \sum_{j=1}^{n'} C'_j \phi_j \, dxdy$$

$$-\int_{\Gamma} \sum_{j=1}^{n} T\frac{\partial \phi}{\partial n} C_j \, d\Gamma = 0 \qquad (12)$$

$$i = 1, 2, \ldots \; n$$

where $\partial/\partial n$ is the outward-pointing normal derivative on the boundary. Recall that this derivative is everywhere defined to equal zero (equation 4); therefore, the term containing this derivative vanishes.

The n equations of equation 12 can be written in matrix form as

$$[A]\{C\} + [B]\{\frac{dC}{dt}\} + [D]\{C'\} + \{F\} = 0 \qquad (13)$$

where [A] and [B] are n × n dimensional matrices; [D] is a n × n' dimensional matrix; {C}, $\{\frac{dC}{dt}\}$ and {F} are n dimensional vectors; and {C'} is a n' dimensional vector. Using terminology from structural engineering, [A] is called the stiffness matrix, [B] is called the dynamic matrix, and {F} is called the force vector. The matrix [D] will be called the leakage matrix.

Typical elements of [A], [B], [D] and {F} are

$$A_{ij} = \iint_{\Omega} \left(T \frac{\partial \phi_i}{\partial x} \frac{\partial \phi_j}{\partial x} + T \frac{\partial \phi_i}{\partial y} \frac{\partial \phi_j}{\partial y} + \frac{K}{b} \phi_i \phi_j \right) dx dy \tag{14}$$

$$B_{ij} = \iint_{\Omega} S \phi_i \phi_j \, dx dy \tag{15}$$

$$D_{ij} = -\iint_{\Omega} \phi_i \phi_j \frac{K}{b} dx dy \tag{16}$$

$$F_i = \iint_{\Omega} \phi_i W dx dy \ . \tag{17}$$

Trial Functions

In order to generate the set of algebraic equations represented by equation 13, it is necessary to perform integrations of the trial functions of the form

$$\iint \frac{\partial \phi_i}{\partial x} \frac{\partial \phi_j}{\partial x} dx dy$$

and

$$\iint \phi_i \phi_j dx dy$$

$$\iint \phi_i dx dy \ .$$

The suitability of the Galerkin approximation for computer application depends on the selection of the trial functions, such that the computation effort for the integrations is minimized.

To facilitate these integrations, the trial functions are defined piecewise in the element sense to obtain global trial functions in the domain Ω. Within an element the approximate solution (equation 6) can be expressed as

$$\hat{h}(x,y) = \sum_{i=1}^{3} C_i(t)\omega_i^e(x,y) \tag{18}$$

where ω_i^e are local trial functions that are defined only within the element e.

The local trial functions used in this study are linear and are defined on triangular elements. The trial functions are defined such that ω_i^e are nonzero only over element e, equal to unity at the node i, and equal to zero at all other nodes. These functions for the node i (fig. 2) are given by

$$\omega_i^e(x,y) = \frac{1}{2A}[(y_j - y_k)x + (x_k - x_j)y$$

$$+ (x_j y_k - x_k y_j)] \qquad \text{for } (x,y) \text{ in element e,}$$

$$\omega_i^e(x,y) = 0 \qquad \text{otherwise,} \tag{19}$$

where A represents the area of the element. Subscripts i, j, k refer to the vertices of the triangular element, and the subscripts progress in counter-clockwise order around the element. The area of the element is given by

$$A = \frac{1}{2}\begin{vmatrix} x_i & y_i & 1 \\ x_j & y_j & 1 \\ x_k & y_k & 1 \end{vmatrix}. \tag{20}$$

The global trial function ϕ_i is the union of those values of ω_i^e that are found to be nonzero at node i. Thus, the global trial functions are given by

$$\phi_i(x,y) = \omega_i^1 \cup \omega_i^2 \cup \ldots \cup \omega_i^k \tag{21}$$

where $\{\omega_i^1, \omega_i^2, \ldots, \omega_i^k\}$ is the set of all local trial functions that are nonzero at the node i.

An examination of equation 12 indicates that about $4n^2$ integrations are required. Because the integrals have nonzero values only where two trial functions share the same element, the number of integrations that actually must be evaluated is much smaller.

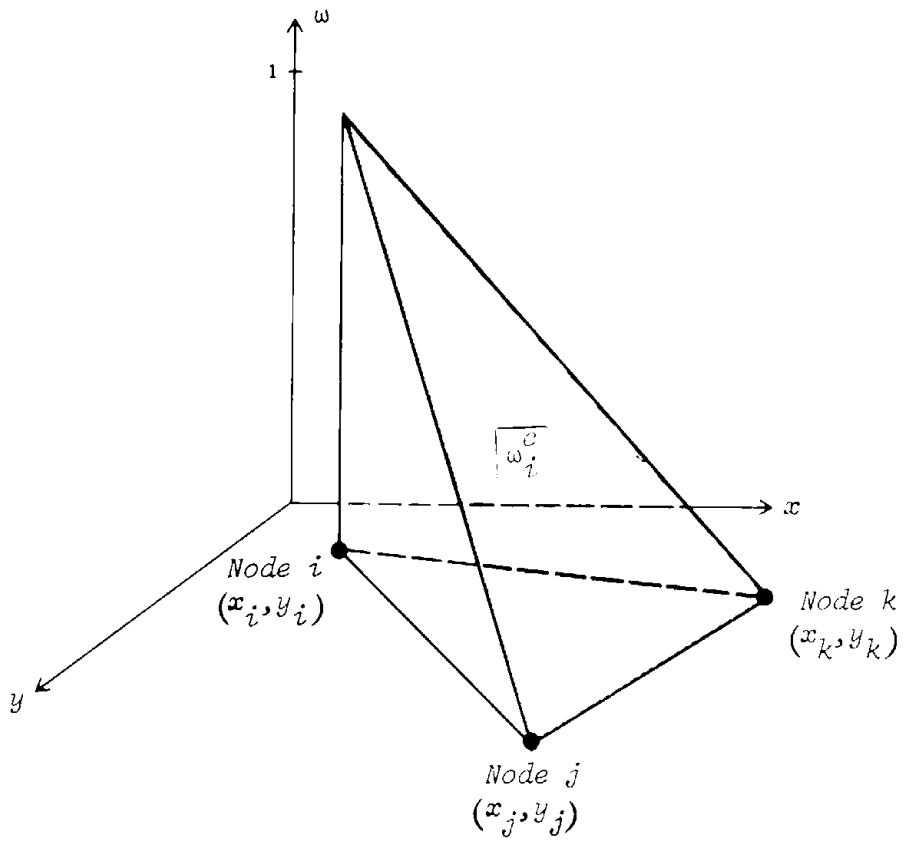

FIGURE 2.--Local trial function used in the mathematical model (from Durbin, 1978).

Integration of the Approximating Equations

The integrations in equations 14, 15, 16, and 17 are most easily performed on an element basis. Element matrices are generated, and the information is then transferred to the global matrix. Because there are three nodes in an element, each element matrix will be of order three.

Stiffness matrix.--A typical element stiffness matrix [a] will be of the form

$$[a] = T\iint \begin{bmatrix} \frac{\partial w_1}{\partial x}\frac{\partial w_1}{\partial x} & \frac{\partial w_1}{\partial x}\frac{\partial w_2}{\partial x} & \frac{\partial w_1}{\partial x}\frac{\partial w_3}{\partial x} \\ \frac{\partial w_2}{\partial x}\frac{\partial w_1}{\partial x} & \frac{\partial w_2}{\partial x}\frac{\partial w_2}{\partial x} & \frac{\partial w_2}{\partial x}\frac{\partial w_3}{\partial x} \\ \frac{\partial w_3}{\partial x}\frac{\partial w_1}{\partial x} & \frac{\partial w_3}{\partial x}\frac{\partial w_2}{\partial x} & \frac{\partial w_3}{\partial x}\frac{\partial w_3}{\partial x} \end{bmatrix} dxdy$$

$$+ T\iint \begin{bmatrix} \frac{\partial w_1}{\partial y}\frac{\partial w_1}{\partial y} & \frac{\partial w_1}{\partial y}\frac{\partial w_2}{\partial y} & \frac{\partial w_1}{\partial y}\frac{\partial w_3}{\partial y} \\ \frac{\partial w_2}{\partial y}\frac{\partial w_1}{\partial y} & \frac{\partial w_2}{\partial y}\frac{\partial w_2}{\partial y} & \frac{\partial w_2}{\partial y}\frac{\partial w_3}{\partial y} \\ \frac{\partial w_3}{\partial y}\frac{\partial w_1}{\partial y} & \frac{\partial w_3}{\partial y}\frac{\partial w_2}{\partial y} & \frac{\partial w_3}{\partial y}\frac{\partial w_3}{\partial y} \end{bmatrix} dxdy$$

$$+ \frac{K}{b}\iint \begin{bmatrix} w_1 w_1 & w_1 w_2 & w_1 w_3 \\ w_2 w_1 & w_2 w_2 & w_2 w_3 \\ w_3 w_1 & w_3 w_2 & w_3 w_3 \end{bmatrix} dxdy \qquad (22)$$

Aquifer parameters that appear in the stiffness matrix are assumed to be constant over an element. Because the integration is performed over an element, these parameters are moved from under the integration. The indices used in the element stiffness matrix are local, and they pertain to nodes numbered counterclockwise around the triangle.

The integrations in equation 22 are performed in the global coordinate system. The following integration formulas are used:

$$\iint \frac{\partial w_i}{\partial x}\frac{\partial w_r}{\partial x}\,dx\,dy = \frac{1}{4A}(y_{r+1}-y_{r+2})(y_j-y_k) \qquad (23)$$

$$r = i,j,k$$

$$\iint \frac{\partial w_i}{\partial y}\frac{\partial w_r}{\partial y}\,dx\,dy = \frac{1}{4A}(x_{r+2}-x_{r+1})(x_k-x_j) \qquad (24)$$

$$r = i,j,k$$

$$\iint w_i w_i\,dx\,dy = \frac{1}{6}A \qquad (25)$$

$$\iint w_i w_r\,dx\,dy = \frac{1}{12}A \qquad (26)$$

$$r = j,k$$

where x_i and y_i are the coordinates of the node i.

The global stiffness matrix is obtained by summing, for a given global node, the contribution to that node from each element stiffness matrix. For example, if nodes i and j in the element nodal system correspond to nodes p and q in the global nodal system, then a_{ij} in the element stiffness matrix is added to A_{pq} in the global stiffness matrix. This operational procedure is repeated for each node in an element and for all elements in the domain Ω.

Dynamic matrix.--A typical element dynamic matrix [b] will be of the form

$$[b] = S\iint \begin{bmatrix} w_1w_1 & w_1w_2 & w_1w_3 \\ w_2w_1 & w_2w_2 & w_2w_3 \\ w_3w_1 & w_3w_2 & w_3w_3 \end{bmatrix} dxdy \qquad (27)$$

The integrals are evaluated by using equations 25 and 26, and the global dynamic matrix is assembled according to the operation procedure described previously.

Leakage matrix.--A typical element leakage matrix [d] will be of the form

$$[d] = \frac{K}{b} \iint \begin{bmatrix} w_1 w_1 & w_1 w_2 & w_1 w_3 \\ w_2 w_1 & w_2 w_2 & w_2 w_3 \\ w_3 w_1 & w_3 w_2 & w_3 w_3 \end{bmatrix} dxdy \qquad (28)$$

As was done for the element dynamic matrix, the integrals in the element leakage matrix are evaluated using equations 25 and 26; however, the assembly of the global leakage matrix is somewhat different. The form of the leakage term arose in part from the introduction of the trial solution for the head in the second aquifer (equation 7) into equation 10. If nodes i and j in the element nodal system correspond not only to nodes p and q in the global nodal system for the first aquifer but also to nodes k and m in the global nodal system for the second aquifer, then a_{ij} in the element leakage matrix is added to D_{km} in the global leakage matrix.

Force vector.--The flux term in the force vector arises because of point sources and sinks and because of distributed sinks. Recharge and pumpage are represented mathematically by point sources and sinks. Evapotranspiration discharge is represented mathematically by distributed sinks. Accordingly, the force vector {E} is an aggregate of the effects of pumping and evapotranspiration, or

$$\{F\} = \{Q\} + \{E\} \qquad (29)$$

Equation 17 can be expanded to obtain these flux terms separately:

$$Q_i = \iint_{\Omega} \phi_i \sum_{k=1}^{m} Q_k \delta(x-x_k, y-y_k) dxdy \qquad (29a)$$

and

$$E_i = \iint_{\Omega} \phi_i E \, dxdy \qquad (29b)$$

where Q_k is the point volumetric recharge to or pumpage from the aquifer,

x_k and y_k are the coordinates of the location of the point source or sink,

δ is the Dirac delta function,

m is the number of point sources and sinks, and

E is the volumetric evapotranspiration discharge per unit area.

Because of the properties of the Dirac delta function (Korn and Korn, 1961, p. 876), the integral

$$\iint_{\Omega} \phi_i \sum_{k=1}^{m} Q_k \delta(x - x_k, y - y_k) dx dy \qquad (30)$$

is equal to Q_k, if x_k and y_k are the coordinates of a node. The global force vector is assembled simply by adding Q_k to F_i, where Q_k is located at the node i.

Distributed sinks are handled somewhat differently. The discharge per unit area is given by the relations

$$E(x,y) = E_0 - \frac{E_0 z(x,y)}{z_0} \quad \text{for } z \leqq z_0 \qquad (30a)$$

$$E(x,y) = 0 \quad \text{for } z > z_0 \qquad (30b)$$

where E is the volumetric discharge per unit area,
E_0 is the discharge when the water table is at the land surface,
z is the depth below the land surface to the water table, and
z_0 is the depth at which discharge ceases.

Letting

$$Z_{(x,y)} = L_{(x,y)} - h_{(x,y,t)} \qquad (30c)$$

where L is the elevation of land surface at point x,
h is the water table elevation at point x, y at line t.

Equation 30a can be rewritten as

$$E_{(x,y)} = \left(E_0 - \frac{E_0 L_{(x,y)}}{Z_0}\right) + \left(\frac{E_0 h_{(x,y,t)}}{Z_0}\right); \qquad (30d)$$

recalling that at a node $h_i = C_i$, the total discharge at node 0_i can be written as

$$E_i = \left\{A\left(E_0 - \frac{E_0 L}{Z_0}\right)\right\} + \left\{A \frac{E_0 Ci}{Z_0}\right\} \qquad (30e)$$

Finite-Difference Approximation of the Time Derivative

Although the matrices [A], [B], and [D] and the vector {F} can now be evaluated, we must still solve the set of ordinary differential equations

$$[A]\{C\} + [B]\left\{\frac{dC}{dt}\right\} + [D]\{C\} + \{F\} = 0. \quad (31)$$

To do this we approximate the time derivative using the first-order correct, implicit, finite-difference scheme

$$\left([A]\{C_{t+\Delta t}\}\right) + \frac{1}{\Delta t}[B]\{C_{t+\Delta t} - C_t\} + [D]\{C'_{t+\Delta t}\} + \{F\} = 0. \quad (32)$$

Equation 32 can be rearranged to obtain

$$\left([A] + \frac{1}{\Delta t}[B]\right)\{C_{t+\Delta t}\} + [D]\{C'_{t+\Delta t}\} = \frac{1}{\Delta t}[B]\{C_t\} - \{F\}. \quad (33)$$

Equation 33 applies to the first aquifer. The parallel expression for the second aquifer is

$$\left([A'] + \frac{1}{\Delta t}[B']\right)\{C'_{t+\Delta t}\} + [D']\{C_{t+\Delta t}\} = \frac{1}{\Delta t}[B']\{C'_t\} - \{F'\}. \quad (34)$$

Using equations 29, 29a, and 30e, equation 33 may be rearranged and rewritten as

$$\left([A] + \frac{1}{\Delta t}[B] + \left[\frac{AE_0}{z_0}\right]\right)C_{t+\Delta t} + [D]\{C'_{t+\Delta t}\} = \frac{1}{\Delta t}[B]\{C_t\} - \left\{A\left(E\frac{E_0 L}{z_0}\right)\right\}. \quad (33a)$$

Equation 34 is unchanged since evapotranspiration can occur only from the upper aquifer and therefore $F' = Q'$.

Assembly of the Two-Aquifer Solution

The simultaneous solution of equations 33 and 34 for $\{C_{t+\Delta t}\}$ and $\{C'_{t+\Delta t}\}$ can be obtained by first assembling the matrix equation

$$([\Pi] + \frac{1}{\Delta t}[\Upsilon])\{\chi_{t+\Delta t}\} = \frac{1}{\Delta t}[\Upsilon]\{\chi_t\} - \{\psi\} \qquad (35)$$

where

$$[\Pi] \equiv \begin{bmatrix} [A] & [D] \\ [D'] & [A'] \end{bmatrix}$$

$$[\Upsilon] \equiv \begin{bmatrix} [B] & 0 \\ 0 & [B'] \end{bmatrix}$$

$$\{\chi_t\} \equiv \begin{Bmatrix} \{C_t\} \\ \{C'_t\} \end{Bmatrix}$$

$$\{\chi_{t+\Delta t}\} \equiv \begin{Bmatrix} \{C_{t+\Delta t}\} \\ \{C'_{t+\Delta t}\} \end{Bmatrix}$$

$$\{\psi\} \equiv \begin{Bmatrix} \{F\} \\ \{F'\} \end{Bmatrix}.$$

Equation 35 can then be solved for $\{\chi_{t+\Delta t}\}$, which can be easily decomposed into $\{C_{t+\Delta t}\}$ and $\{C'_{t+\Delta t}\}$.

Recurrence Algorithm

To bring together the concepts outlined up to this point, the solution scheme for obtaining heads in the two-aquifer system at discrete points in space and time will be presented in a stepwise fashion.

Step 1.--Evaluate [A], [B], [D], [A'], [B'], and [D'] and assemble $[\Pi]$ and $[\Upsilon]$.
Step 2.--Assign the initial heads to $\{\chi_t\}$.
Step 3.--Evaluate

$$[\Pi] + \frac{1}{\Delta t}[\Upsilon].$$

Step 4.--Evaluate $\{F\}$ and $\{F'\}$ and assemble $\{\Psi\}$. The evapotranspiration discharge (equation 30e) depends on the head in the aquifer. Because this discharge is nonlinearly related to the head, equation 35 is only piecewise linear. To maintain the linearity of this equation, we can devise a numerical scheme wherein the evapotranspiration discharge is obtained by extrapolating head values from earlier known time levels to the current unknown level. An extropolation based on the latest two calculated heads provides satisfactory results. Notice, however, that we solve this nonlinear system of equations only approximately when using this quasi-linearization procedure.

Step 5.--Evaluate the vector

$$\frac{1}{\Delta t}[\Upsilon]\{\chi_t\} - \{\Psi\}.$$

Step 6.--Solve equation 35 for $\{\chi_{t+\Delta t}\}$ by the point iterative successive over-relaxation method (Varga, 1962). $\{\chi_{t+\Delta t}\}$ then can be easily decomposed into $\{C_{t+\Delta t}\}$ and $\{C_t'_{+\Delta t}\}$. Consequently, the previously undetermined coefficients in the trial solutions

$$\hat{h}(x,y,t) = \sum_{i=1}^{n} C_i(t)\phi_i(x,y) \tag{6}$$

and

$$\hat{h}'(x,y,t) = \sum_{i=1}^{n'} C'_i(t)\phi'_i(x,y) \tag{7}$$

are now known, and these solutions can be used to approximate the continuous distribution of heads in the aquifers. Recall that the trial functions were defined such that they are unity at the node for which they are defined and they are zero at every other node. Because of these characteristics of the trial functions, the trial solutions reduce at the nodal locations to

$$\hat{h}(x_k,y_k,t) = C_k(t) \tag{36}$$

and

$$\hat{h}'(x'_k,y'_k,t) = C'_k(t) \tag{37}$$

where x_k and y_k are the coordinates of node k in the first aquifer and x_k' and $y_{k'}$ are the coordinates of node k in the second aquifer. At the nodal locations, heads in the aquifers are the coefficients C_k and C_k'.

Step 7.--Replace $\{\chi_t\}$ with $\{\chi_{t+\Delta t}\}$.

Step 8.-Add Δt to the elapsed time. Then, if Δt has been changed, return to step 3; otherwise, return to step 4.

The above cycle is repeated until the desired period of simulation is covered.

MODEL DESCRIPTION

Computer Program

General Comments

The program documented here is written for a CDC[1] 7600 computer in a version of CDC FORTRAN which was modified by the Lawrence Berkeley Laboratory computer center. As written (1976), the program makes use of features that are not standard ANSI FORTRAN; the features include LEVEL 2 variables and ENCODE/DECODE statements. Another version of the model is compatible with the IBM[1] 370/155 system installed at the Geological Survey office in Reston, Va. That version differs slightly in features and options from the ones documented here.

Memory requirements and running time depend on the size and complexity of the physical situation being simulated. However, as an approximate guide it can be noted that for an application of the model to a field problem in the San Bernardino Valley (see attachments C, D, and E) which utilized 296 elements and 178 nodes, an average transient run simulating 26 time steps required 170K bytes of small-core memory, 254K bytes of large-core memory (LEVEL 2 variables), and 54.7 seconds of Central Processor time on the Lawrence Berkeley Laboratory's CDC 7600 computer.

[1]The use of brand names in this report is for identification purposes only and does not imply endorsement by the U.S. Geological Survey.

Main Program

The main program, called TRIAG, has two functions. The first part of the program dimensions and initializes variables for the simulation. Some input data describing the field problem being simulated is also read by this part of the main program.

The second part of the main program controls the sequence of computations performed by the subroutines. In general this sequence is as follows. After initializing variables and reading the preliminary data for the simulation, the main program calls subroutine INPUT to receive aquifer parameter data for the upper aquifer. After these data are read in, control is returned to the main program which makes a second call to INPUT, this time requesting aquifer parameter data for the lower aquifer. After return to the main program, the recharge and discharge for the simulation are read, and calculations for the simulations are started. First a call is made, once for each aquifer, to subroutine MATRIX where elements necessary for the integration of the approximating equations (see "Theoretical Development") are assembled in matrices. MATRIX in turn calls subroutine LOCATE to compress the resulting matrices for storage in the computer. Control is then returned, via MATRIX, to the main program. The main program then calls subroutine ORDER, once for each aquifer, to reorder the matrices generated by MATRIX for more efficient calculations.

The time step loop for the simulation now begins. The following iterative procedure is repeated for each time step. Main-program processing for each time step includes the following. First, the time step length is calculated and the B matrix is reconstructed to represent $\frac{1}{\Delta t}[B]$, and the program proceeds to solve the matrix equation given as equation 33 in the section "Theoretical Development". Solution of this equation requires the following steps. Subroutine ADD is called to add matrices A and B. The diagonal coefficient of the resulting matrix is then located by the main program. Subroutine MULT is then called to obtain the product of matrix B and the head coefficient vector C_t. The Force vector F is added to the resulting vector. This completes all the elements of equation 33 except for evapotranspiration.

If the evapotranspiration option has been specified, an iterative loop is begun which calls subroutine EVAP and adds the effects of evapotranspiration to the right and left sides of equation 33, and the final matrix equation is obtained. This equation is now solved by a call to subroutine SIMQRX.

The solution vector returned by SIMQRX is then disaggregated in the main program to give the heads at the end of the time step. If any maps or hydrographs have been requested, these heads are saved on logical unit TAPE 15 for later use by the appropriate plotting subroutines. The main program prints the generated heads, if requested, and the time step loop is repeated.

At the end of the simulation, if any maps or hydrographs have been specified the appropriate plot subroutines are called from the subroutine package consisting of PLOTS, MAP, GRAPH, and PRPLOT. The function of each subroutine is described below.

Subroutines

Subroutine MAP formats map size and scale data for a map plot of drawdown or heads. Plot data are translated into the format required by the generalized printer plot routine PRPLOT.

Subroutine GRAPH formats scale data for a hydrograph plot. Plot data are translated into the format required by the generalized printer plot routine PRPLOT.

Subroutine PRPLOT is a packaged program to produce plots of graphic data on a line-printer.

Subroutine INPUT reads the aquifer parameters necessary for the field problem. Subroutine input is called twice, once for each aquifer being simulated. Instructions for preparation of the necessary data deck are given in Attachment B of this report.

Subroutine MATRIX assembles the elements of the Stiffness and Dynamic matrices from the aquifer parameter data and input hydraulic heads. For a discussion of the form of these matrices, see "Integration of the Approximating Equations" in the "Theoretical Development" section of this report.

Subroutine LOCATE "packs" the Stiffness and Dynamic matrices for storage in the computer by storing only nonzero elements of these matrices. At each call to LOCATE, the incoming matrix element is stored in the next available storage location of the appropriate row of the storage matrix, and an integer index matrix records its position in the uncompressed Stiffness or Dynamic matrix.

Subroutine ORDER takes the assembled and compressed stiffness, dynamic, and Leakage matrices and sorts their rows by increasing column number.

Subroutine ADD adds two conformable matrices and returns the resulting vector to the calling program.

Subroutine MULT multiplies a matrix by a vector and returns the resulting vector to the calling program.

Subroutine EVAP assembles the contributions to elements of the Force Matrix caused by evaporation discharge. The resulting matrix is then summed into the force matrix in the main program. Evaporation discharge is calculated as a linear function that is assumed to be zero when the water level falls below a critical depth below land surface, specified by the variable DEPTH (see Attachment B, "Data Deck Instructions"). The variable RATE specifies the rate of evapotranspiration when the water level is at land surface. Evapotranspiration rates greater than that specified by RATE are possible when water levels rise above land surface. These rates correspond to the effects of surface seepage. Evapotranspiration is assumed to occur only from the upper aquifer.

Subroutine SIMQRX solves the fully assembled matrix equations, using a point-successive over-relaxation technique.

Subroutine PLOTS acts as control program for the following subroutines: MAP, GRAPH, and PRPLOT. As such it reads the appropriate plot data from logical unit TAPE 15, determines the type of plot requested, and prepares and passes plot data to the appropriate subroutines.

Practical Considerations for Application

A conceptual approach to ground-water modeling should be used in applying this model. First, a conceptual model of the ground-water system, which represents the reduction of the prototype to its essential elements, should be developed. Then a mathematical analog, or mathematical model, of the conceptual model should be constructed. The mathematical model should be a good approximation of the physical processes that were assumed to operate in the conceptual model, but it should be only an approximate representation of the prototype.

The conceptualization of the prototype must be simplified to the extent that an operational mathematical model can be constructed; however, simplification must not be so great that the essential characteristics of the prototype are not retained. In practice, our ability to construct mathematical models is limited, and this situation requires that we adjust our expectations of the model correspondingly. We would like a model that represents all characteristics of the prototype but must settle for a model that represents a few of its more important characteristics. It is important to emphasize that the model simulates on a megascopic scale.

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ATTACHMENTS

ATTACHMENT A

COMPUTER PROGRAM LISTING

```
      PROGRAM TRIAG (INPUT,OUTPUT,PUNCH,TAPE5=INPUT,TAPE6=OUTPUT,          TRG  10
     1    TAPE7=PUNCH,TAPE14,TAPE15)                                       TRG  20
      INTEGER INA(296,3),INB(296,3)                                        TRG  30
      INTEGER IA(356,24),IB(356,24),IG(356,24)                             TRG  40
      INTEGER LPA(178),LPB(178),LRA(178),LRB(178),LE1(178)                 TRG  50
      INTEGER LEAKA(296),LEAKB(296),INDEX(296)                             TRG  60
      INTEGER ICC(356)                                                     TRG  70
      REAL COND(296),AREAA(296),AREAB(296),TA(296),TB(296),SA(296),SB(29TRG  80
     16),THK(296),TOP(296),SAC(296),SAU(296),E1(296),E2(296),E3(296)      TRG  90
      REAL XA(178),XB(178),YA(178),YB(178),H2A(178),H2B(178),H3A(178),H3TRG 100
     1B(178),F1A(178),F1B(178),FPA(178),FPB(178),FRA(178),FRB(178),RHS(1TRG 110
     278),LHS(178),LAND(178),          ADJUST(178)                        TRG 120
      REAL BE(3,3)                                                         TRG 130
      REAL    TITLE(20),AQF(2)                                             TRG 140
      DOUBLE PRECISION C(356),F(356),H(356)                                TRG 150
      DOUBLE PRECISION A(356,24),B(356,24),G(356,24)                       TRG 160
C                                                                          TRG 170
C                                                                          TRG 180
      LEVEL 2,INA,INB,LEAKA,LEAKB                                          TRG 190
      COMMON /ONE/ INA,INB,LEAKA,LEAKB                                     TRG 200
      LEVEL 2,COND,AREAA,AREAB,TA,TB,SA,SB,THK,TOP,SAC,SAU                 TRG 210
      COMMON /TWO/ COND,AREAA,AREAB,TA,TB,SA,SB,THK,TOP,SAC,SAU            TRG 220
      LEVEL 2,XA,XB,YA,YB,H2A,H2B,H3A,H3B,F1A,F1B,FPA,FPB,FRA,FRB,RHS,LHTRG 230
     1S,LAND                                                               TRG 240
      COMMON /THREE/ XA,XB,YA,YB,H2A,H2B,H3A,H3B,F1A,F1B,FPA,FPB,FRA,FRBTRG 250
     1,RHS,LHS,LAND                                                        TRG 260
      COMMON /FOUR/ JMO,JDA,JYR,STM,KNS,DELT,MAXKNS,CHNG,ITMAX,EPS,RELAXTRG 270
     1,SDELT,HYDCON,NL,NNA,NEA,          NNB,NEB,TWLTH,SIXTH,KOD1,KOD2,TRG 280
     2KOD3,KOD4,KOD5,KOD6,KOD7,KOD8,KOD9,KOD10                            TRG 290
      COMMON /FIVE/ JNE,JNN,JN,JB                                          TRG 300
      LEVEL 2,A,B,C,F,G,IA,IB,IG,ICC,H                                     TRG 310
      COMMON /SEVEN/ A,B,C,F,H,IA,IB,ICC                                   TRG 320
      COMMON /EIGHT/ G,IG                                                  TRG 330
C                                                                          TRG 340
C                                                                          TRG 350
      DATA AQF(1),AQF(2)/'UPP','LOW'/                                      TRG 360
C                                                                          TRG 370
      JNE=296                                                              TRG 380
      JNN=178                                                              TRG 390
      JN=356                                                               TRG 400
      JB=24                                                                TRG 410
C                                                                          TRG 420
      STM=0.0                                                              TRG 430
      SIXTH=1.0/6.0                                                        TRG 440
      TWLTH=1.0/12.0                                                       TRG 450
      KNS=0                                                                TRG 460
C                                                                          TRG 470
C     NAME OF BASIN                                                        TRG 480
      READ (5,20) TITLE                                                    TRG 490
      WRITE (6,30) TITLE                                                   TRG 500
C                                                                          TRG 510
C     CALL JULDAT(JYR,JMO,JDA)                                             TRG 520
      JYR=0                                                                TRG 530
      JMO=0                                                                TRG 540
      JDA=0                                                                TRG 550
      WRITE (6,10) JMO,JDA,JYR                                             TRG 560
C                                                                          TRG 570
   10 FORMAT (1H0,10X,'DATE',2X,I2,'/',I2,'/',I2)                          TRG 580
   20 FORMAT (20A4)                                                        TRG 590
   30 FORMAT (1H1,26X,'GROUND-WATER FLOW ANALYSIS OF TWO-AQUIFER SYSTEM'TRG 600
```

```
     1/1H0,34X,'WITH TRIANGULAR LINEAR ELEMENTS'/1H0,10X,'**************TRG 610
     2*****************************************************************'TRG 620
     3/1H0,10X,20A4/1H0,10X,'*****************************************************TRG 630
     4*********************************'/////)                                    TRG 640
C                                                                                 TRG 650
C      TIME STEP, NUMBER OF TIME STEPS, MULTIPLIER FOR CHANGING TIME              TRG 660
C      STEP, PIVOT SELECTION                                                      TRG 670
C                                                                                 TRG 680
       READ (5,40) DELT,MAXKNS,CHNG,ITMAX,EPS,RELAX                              TRG 690
       WRITE (6,50) DELT,MAXKNS,CHNG,ITMAX,EPS,RELAX                             TRG 700
C                                                                                 TRG 710
   40  FORMAT (F12.0,I6,F6.0,I6,4F6.0)                                           TRG 720
   50  FORMAT (1H0,10X,'PROGRAM CONTROL'/1H ,10X,'---------------'/1H0,10TRG 730
     1X,'INITIAL TIME STEP',22X,F8.1/1H ,10X,'NUMBER OF TIME STEPS',19X,TRG 740
     2I8/1H ,10X,'MULTIPLIER FOR CHANGING TIME STEPS',5X,F8.3/                    TRG 750
     31H ,10X,'NUMBER OF ITERATIONS',19X,I8/                                      TRG 760
     41H ,10X,'CONVERGENCE CRITERION', 18X,F8.4/                                  TRG 770
     51H ,10X,'RELAXATION FACTOR',22X,F8.4)                                       TRG 780
C                                                                                 TRG 790
       DELT=DELT*3600.0*24.0                                                      TRG 800
       SDELT=DELT                                                                 TRG 810
C                                                                                 TRG 820
C      KODI PARAMETERS -- (1) EVAPOTRANSPIRATION, (2) PUMPING PERIODS,            TRG 830
C      (3) PLOT WATER LEVEL, (4) PLOT DRAWDOWN, (5) PLOT NODE LOCATIONS,          TRG 840
C      (6) PUMPAGE FROM UNIT 10, (7) PUNCH WATER LEVEL, (8) BLOCK                 TRG 850
C      PARAMETERS, (9) CONVERT STORAGE10) PRINT SCHEDULE                          TRG 860
C                                                                                 TRG 870
       READ (5,60) KOD1,KOD2,KOD3,KOD4,KOD5,KOD6,KOD7,KOD8,KOD9,KOD10            TRG 880
C                                                                                 TRG 890
       WRITE (6,70) KOD1,KOD2,KOD3,KOD4,KOD5,KOD6,KOD7,KOD8,KOD9,KOD10           TRG 900
C                                                                                 TRG 910
   60  FORMAT (12I6)                                                             TRG 920
   70  FORMAT (1H0,10X,'KODI PARAMETERS'/1H ,1X,10I10)                           TRG 930
   80  FORMAT (5F12.0,3I6)                                                       TRG 940
C                                                                                 TRG 950
C      CONFINING LAYER PARAMETERS                                                 TRG 960
C                                                                                 TRG 970
   81  READ (5,110) HYDCON,NL                                                    TRG 980
       READ (5,120) (THK(I),I=1,NL)                                              TRG 990
       DO 90 I=1,NL                                                              TRG1000
   90  COND(I)=HYDCON/THK(I)                                                     TRG1010
C                                                                                 TRG1020
C                                                                                 TRG1030
C      AQUIFER PARAMETERS                                                         TRG1040
C                                                                                 TRG1050
C                                                                                 TRG1060
       WRITE (6,100)                                                             TRG1070
       CALL INPUT(1,NNA,NEA,INA,LEAKA,AREAA,H2A,XA,YA,COND,LAND,TA,SA,SACTRG1080
     1,SAU,TOP,RATE,DEPTH,JNE,JNN,ADJUST,INDEX)                                  TRG1090
C                                                                                 TRG1100
       WRITE (6,100)                                                             TRG1110
       CALL INPUT(2,NNB,NEB,INB,LEAKB,AREAB,H2B,XB,YB,COND,LAND,TB,SB,SACTRG1120
     1,SAU,TOP,RATE,DEPTH,JNE,JNN,ADJUST,INDEX)                                  TRG1130
C                                                                                 TRG1140
       REWIND 14                                                                 TRG1150
       WRITE(14) (H2A(I),I=1,NNA),(H2B(I),I=1,NNB)                               TRG1160
C                                                                                 TRG1170
       WRITE (6,130) HYDCON,NL                                                   TRG1180
       WRITE (6,140) (LEAKA(I),LEAKB(I),THK(I),I=1,NL)                           TRG1190
C                                                                                 TRG1200
  100  FORMAT (1H1)                                                              TRG1210
```

```
  110 FORMAT (E12.0,I6)                                                  TRG1220
  120 FORMAT (10F6.0)                                                    TRG1230
  130 FORMAT (1H1,10X,'THICKNESS OF CONFINING LAYER'/1H ,10X,'----------TRG1240
     1----------'/1H0,10X,'HYDRAULIC CONDUCTIVITY',E10.3/1H ,10X,TRG1250
     2'NUMBER OF LEAKY ELEMENTS',I6/1H0,10X,4(4X,'ELE',8X,'VALUE',7X)/1HTRG1260
     3 ,10X,4('UPPER',2X,'LOWER',15X)/)                                  TRG1270
  140 FORMAT (/(10X,4(I4,3X,I4,2X,F9.1,5X)))                             TRG1280
C                                                                        TRG1290
C     SOURCE AND SINK DISCHARGE                                          TRG1300
C                                                                        TRG1310
      READ(5,700) NQ                                                     TRG1320
           DO 606 N=1,NQ                                                 TRG1330
      READ(5,700) NRA,NRB,NPA,NPB,IT1,IT2                                TRG1340
      WRITE(6,701) IT1,IT2                                               TRG1350
C                                                                        TRG1360
           DO 600 I=1,NNA                                                TRG1370
      FPA(I)=0.0                                                         TRG1380
  600 FRA(I)=0.0                                                         TRG1390
           DO 601 I=1,NNB                                                TRG1400
      FPB(I)=0.0                                                         TRG1410
  601 FRB(I)=0.0                                                         TRG1420
C                                                                        TRG1430
C     NATURAL RECHARGE (NEGATIVE VALUE INDICATES INFLOW)                 TRG1440
C                                                                        TRG1450
           IF(NRA.EQ.0) GO TO 6011                                       TRG1460
      READ(5,702) (LPA(I),FRA(LRA(I)),I=1,NRA)                           TRG1470
      SUM=0.0                                                            TRG1480
           DO 7051 I=1,NRA                                               TRG1490
 7051 SUM=SUM+FRA(LRA(I))                                                TRG1500
      WRITE(6,703) AQF(1),SUM                                            TRG1510
      WRITE(6,704) (LRA(I),FRA(LRA(I)),I=1,NRA)                          TRG1520
C                                                                        TRG1530
 6011      IF(NRB.EQ.0) GO TO 6012                                       TRG1540
      READ(5,702) (LRB(I),FRB(LRB(I)),I=1,NRB)                           TRG1550
      SUM=0.0                                                            TRG1560
           DO 7052 I=1,NRB                                               TRG1570
 7052 SUM=SUM+FRB(LRB(I))                                                TRG1580
      WRITE(6,703) AQF(2),SUM                                            TRG1590
      WRITE(6,704) (LRB(I),FRB(LRB(I)),I=1,NRB)                          TRG1600
C                                                                        TRG1610
C     PUMPAGE (POSITIVE VALUE INDICATES OUTFLOW)                         TRG1620
C                                                                        TRG1630
 6012      IF(NPA.EQ.0) GO TO 6013                                       TRG1640
      READ(5,702) (LPA(I),FPA(LPA(I)),I=1,NPA)                           TRG1650
      SUM=0.0                                                            TRG1660
           DO 7053 I=1,NPA                                               TRG1670
 7053 SUM=SUM+FPA(LPA(I))                                                TRG1680
      WRITE(6,705) AQF(1),SUM                                            TRG1690
      WRITE(6,704) (LPA(I),FPA(LPA(I)),I=1,NPA)                          TRG1700
C                                                                        TRG1710
 6013      IF(NPB.EQ.0) GO TO 6014                                       TRG1720
      READ(5,702) (LPB(I),FPB(LPB(I)),I=1,NPB)                           TRG1730
      SUM=0.0                                                            TRG1740
           DO 7054 I=1,NPB                                               TRG1750
 7054 SUM=SUM+FPB(LPB(I))                                                TRG1760
      WRITE(6,705) AQF(2),SUM                                            TRG1770
      WRITE(6,704) (LPB(I),FPB(LPB(I)),I=1,NPB)                          TRG1780
C                                                                        TRG1790
C     SOURCE AND SINK DISCHARGE ADJUSTMENT                               TRG1800
C                                                                        TRG1810
 6014 WRITE(6,706)                                                       TRG1820
```

```
C                                                                       TRG1830
      DO 605 IT=IT1,IT2                                                 TRG1840
      READ(5,707) FFRA,FFPA,FFRB,FFPB                                   TRG1850
      WRITE(6,708) IT,FFRA,FFPA,FFRB,FFPB                               TRG1860
C                                                                       TRG1870
      DO 603 I=1,NNA                                                    TRG1880
  603 F1A(I)=FRA(I)*FFRA+FPA(I)*FFPA                                    TRG1890
      DO 604 I=1,NNB                                                    TRG1900
  604 F1B(I)=FRB(I)*FFRB+FPB(I)*FFPB                                    TRG1910
C                                                                       TRG1920
      WRITE(15) (F1A(I),I=1,NNA),(F1B(I),I=1,NNB)                       TRG1930
  605 CONTINUE                                                          TRG1940
  606 CONTINUE                                                          TRG1950
      REWIND 15                                                         TRG1960
C                                                                       TRG1970
  700 FORMAT(6I6)                                                       TRG1980
  701 FORMAT(1H1,10X,'SOURCE AND SINK DISCHARGE FOR TIME STEPS',        TRG1990
     1   I5,' TO',I5/11X,53(1H-)/)                                      TRG2000
  702 FORMAT(5(I6,F6.0 ))                                               TRG2010
  703 FORMAT(///11X,'RECHARGE FOR ',A3,'ER AQUIFER'/11X,26(1H-)//       TRG2020
     1   11X,'TOTAL RECHARGE',1PE12.3/                                  TRG2030
     2   11X,5('NODE',4X,'VALUE',7X)/)                                  TRG2040
  704 FORMAT(/(10X,5(I3,3X,F9.4,5X)))                                   TRG2050
  705 FORMAT(///11X,'PUMPAGE FOR ',A3,'ER AQUIFER'/11X,25(1H-)//        TRG2060
     1   11X,'TOTAL PUMPAGE',1PE12.3/                                   TRG2070
     2   11X,5('NODE',4X,'VALUE',7X)/)                                  TRG2080
  706 FORMAT(///11X,'MULTIPLICATION FACTORS FOR SOURCE AND SINK DISCHARGTRG2090
     1E'/11X,52(1H-)//11X,'STEP',7X,'UPPER AQUIFER',9X,'LOWER AQUIFER'/ TRG2100
     2   15X,2(4X,'RECHARGE   PUMPAGE')/)                               TRG2110
  707 FORMAT(4F12.0)                                                    TRG2120
  708 FORMAT(11X,I4,2(F12.4,F10.4))                                     TRG2130
C                                                                       TRG2140
C     INITIALIZE ARRAYS                                                 TRG2150
C                                                                       TRG2160
      JJ=1                                                              TRG2170
      DO 190 I=1,NNA                                                    TRG2180
      H3A(I)=H2A(I)                                                     TRG2190
      H(JJ)=H2A(I)                                                      TRG2200
      JJ=JJ+1                                                           TRG2210
  190 CONTINUE                                                          TRG2220
      JJ=NNA+1                                                          TRG2230
      DO 200 I=1,NNB                                                    TRG2240
      H3B(I)=H2B(I)                                                     TRG2250
      H(JJ)=H2B(I)                                                      TRG2260
      JJ=JJ+1                                                           TRG2270
  200 CONTINUE                                                          TRG2280
      DO 220 I=1,JN                                                     TRG2290
      DO 210 J=1,JB                                                     TRG2300
      IA(I,J)=0                                                         TRG2310
      IB(I,J)=0                                                         TRG2320
      IG(I,J)=0.                                                        TRG2330
      A(I,J)=0.0                                                        TRG2340
      B(I,J)=0.0                                                        TRG2350
      G(I,J)=0.0                                                        TRG2360
  210 CONTINUE                                                          TRG2370
  220 CONTINUE                                                          TRG2380
C                                                                       TRG2390
C     GLOBAL STIFFNESS MATRIX (A) AND DYNAMIC MATRIX (B)                TRG2400
C                                                                       TRG2410
      N1=0                                                              TRG2420
      N2=NNA                                                            TRG2430
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```
      N3=NNA+NNB                                                        TRG2440
C                                                                       TRG2450
      CALL MATRIX(1,NNA,NEA,INA,INB,LEAKA,LEAKB,TA,SA,AREAA,XA,YA,COND,ITRG2460
     1A,A,IB,B,N1,N2,N3,JNE,JN,JB,JNN)                                  TRG2470
C                                                                       TRG2480
      N1=NNA                                                            TRG2490
      N2=0                                                              TRG2500
C                                                                       TRG2510
      CALL MATRIX(2,NNB,NEB,INB,INA,LEAKB,LEAKA,TB,SB,AREAB,XB,YB,COND,ITRG2520
     1A,A,IB,B,N1,N2,N3,JNE,JN,JB,JNN)                                  TRG2530
C                                                                       TRG2540
      MF=1                                                              TRG2550
      ML=N3                                                             TRG2560
      CALL ORDER(IA,A,MF,ML,NBA,JN,JB)                                  TRG2570
      CALL ORDER(IB,B,MF,ML,NBB,JN,JB)                                  TRG2580
C                                                                       TRG2590
      DO 230 JJ=1,N3                                                    TRG2600
      DO 230 I=1,NBB                                                    TRG2610
  230 B(JJ,I)=B(JJ,I)/DELT                                              TRG2620
C                                                                       TRG2630
C     BEGIN TIME STEP LOOP                                              TRG2640
C                                                                       TRG2650
  240 KNS=KNS+1                                                         TRG2660
      IF (KNS.GT.MAXKNS) GO TO 570                                      TRG2670
      IF(KOD9.NE.1) GO TO 62                                            TRG2680
      IFLGB=0                                                           TRG2690
      DO 241 I=1,NEA                                                    TRG2700
      HAVE=0.0                                                          TRG2710
      DO 242 II=1,3                                                     TRG2720
      III=INA(I,II)                                                     TRG2730
      HAVE=HAVE+H2A(III)                                                TRG2740
  242 CONTINUE                                                          TRG2750
      HAVE=HAVE/3.0                                                     TRG2760
C     WRITE(6,776) I,TOP(I),HAVE,SA(I),SAC(I),SAU(I)                    TRG2770
 7760FORMAT(' ELE=',I3,' TOP=',F8.2,' HAVE=',F8.2,' SA=',F9.7,' SAC=',FTRG2780
     19.7,' SAU=',F9.7)                                                 TRG2790
      DELS1=ABS(SA(I)-SAC(I))                                           TRG2800
      DELS2=ABS(SA(I)-SAU(I))                                           TRG2810
      IF(HAVE.GE.TOP(I).AND.DELS1.LT.0.1E-10) GO TO 241                 TRG2820
      IF(HAVE.LT.TOP(I).AND.DELS2.LT.0.1E-10) GO TO 241                 TRG2830
      IF(DELS1.LT.0.1E-10) GO TO 243                                    TRG2840
      SA(I)=SAC(I)                                                      TRG2850
      WRITE(6,777) I,KNS                                                TRG2860
  777 FORMAT(' ELEMENT # ',I3,' BECOMES CONFINED AT TIME STEP ',I4)     TRG2870
      GO TO 244                                                         TRG2880
  243 SA(I)=SAU(I)                                                      TRG2890
      WRITE(6,778)I,KNS                                                 TRG2900
  778 FORMAT(' ELEMENT # ',I3,' BECOMES UNCONFINED AT TIME STEP ',I4)   TRG2910
  244 IFLGB=1                                                           TRG2920
  241 CONTINUE                                                          TRG2930
      WRITE(6,773) IFLGB                                                TRG2940
  773 FORMAT('  IFLGB= ',I3)                                           TRG2950
      IF(IFLGB.NE.1) GO TO 62                                           TRG2960
C           RECONSTRUCT B MATRIX                                        TRG2970
      DO 32 I=1,NNA                                                     TRG2980
      DO 32 J=1,24                                                      TRG2990
      B(I,J)=0.0                                                        TRG3000
   32 CONTINUE                                                          TRG3010
      DO 61 L=1,NEA                                                     TRG3020
      DO 52 I=1,3                                                       TRG3030
      DO 42 J=1,3                                                       TRG3040
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      BE(I,J)=AREAA(L)*SA(L)*TWLTH                                      TRG3050
      IF(I.EQ.J) BE(I,J)=BE(I,J)*2.0                                    TRG3060
   42 CONTINUE                                                          TRG3070
   52 CONTINUE                                                          TRG3080
      DO 58 J=1,3                                                       TRG3090
      JJ=INA(L,J)                                                       TRG3100
      DO 56 I=1,3                                                       TRG3110
      II=INA(L,I)                                                       TRG3120
      CALL LOCATE(JJ,II,BE(I,J),IB,B,JN,JB)                             TRG3130
   56 CONTINUE                                                          TRG3140
   58 CONTINUE                                                          TRG3150
   61 CONTINUE                                                          TRG3160
   62 CONTINUE                                                          TRG3170
C                                                                       TRG3180
C     CHANGE TIME STEP LENGTH                                           TRG3190
C                                                                       TRG3200
           IF(CHNG.LT.1.01.OR.KNS.EQ.1) GO TO 400                       TRG3210
      DELT=DELT*CHNG                                                    TRG3220
      DO 390 JJ=1,N3                                                    TRG3230
      DO 390 I=1,NBB                                                    TRG3240
  390 B(JJ,I)=B(JJ,I)/CHNG                                              TRG3250
  400 STM=STM+DELT                                                      TRG3260
C                                                                       TRG3270
      IF (KOD10.EQ.0) GO TO 250                                         TRG3280
      IF (MOD(KNS,KOD10).EQ.0.OR.KNS.EQ.MAXKNS) GO TO 250               TRG3290
      GO TO 270                                                         TRG3300
  250 TSEC=STM                                                          TRG3310
      TMIN=TSEC/60.0                                                    TRG3320
      THRS=TMIN/60.0                                                    TRG3330
      TDAY=THRS/24.0                                                    TRG3340
      WRITE (6,260) KNS,TDAY,THRS,TMIN,TSEC                             TRG3350
C                                                                       TRG3360
  260 FORMAT (1H1,10X,'TIME STEP',1X,I3/1H ,10X,'-------------'/1H0,10X,TRG3370
     1'ELAPSED TIME',3X,E10.3,1X,'DAYS'/1H ,25X,E10.3,1X,'HOURS'/1H ,25XTRG3380
     2,E10.3,1X,'MINUTES'/1H ,25X,E10.3,1X,'SECONDS')                   TRG3390
C                                                                       TRG3400
C     PUMPING DISCHARGE VECTOR (F1)                                     TRG3410
C                                                                       TRG3420
 270  READ(15) (F1A(I),I=1,NNA),(F1B(I),I=1,NNB)                        TRG3430
C                                                                       TRG3440
C     GLOBAL FORCE VECTOR (F)                                           TRG3450
C                                                                       TRG3460
 350  JJ=1                                                              TRG3470
      DO 370 I=1,NNA                                                    TRG3480
      F(JJ)=-F1A(I)                                                     TRG3490
      JJ=JJ+1                                                           TRG3500
  370 CONTINUE                                                          TRG3510
      JJ=NNA+1                                                          TRG3520
      DO 380 I=1,NNB                                                    TRG3530
      F(JJ)=-F1B(I)                                                     TRG3540
      JJ=JJ+1                                                           TRG3550
  380 CONTINUE                                                          TRG3560
C                                                                       TRG3570
C     ADDITION OF MATRIX (A) AND (B)                                    TRG3580
C                                                                       TRG3590
        IF(KNS.NE.1.AND.CHNG.LT.1.01.AND.IFLGB.EQ.0) GO TO 4101         TRG3600
      CALL ADD(IA,IB,IG,A,B,G,N3,NBA,NBB,NBG,JN,JB)                     TRG3610
C                                                                       TRG3620
C     LOCATE DIAGONAL COEFFICIENT OF MATRIX (G)                         TRG3630
C                                                                       TRG3640
           IF(KNS.NE.1) GO TO 4101                                      TRG3650
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           DO 2009 JJ=1,N3                                                    TRG3660
           DO 1009 I=1,NBG                                                    TRG3670
            IF(IG(JJ,I).NE.JJ) GO TO 1009                                     TRG3680
            ICC(JJ)=I                                                         TRG3690
            GO TO 2009                                                        TRG3700
 1009     CONTINUE                                                           TRG3710
      WRITE(6,2019) JJ                                                       TRG3720
 2009 CONTINUE                                                               TRG3730
 4101 CONTINUE                                                               TRG3740
C                                                                            TRG3750
 2019 FORMAT(11X,' DIAGONAL NOT LOCATED FOR ROW',I4)                         TRG3760
C                                                                            TRG3770
C     MULTIPLICATION OF MATRIX (B) AND VECTOR (H)                            TRG3780
C                                                                            TRG3790
      CALL MULT(IB,B,C,H,N3,N8B,JN,JB)                                       TRG3800
C                                                                            TRG3810
C     ADDITION OF VECTOR (C) AND =ECTOR (F)                                  TRG3820
C                                                                            TRG3830
      DO 410 I=1,N3                                                          TRG3840
  410 F(I)=C(I)+F(I)                                                         TRG3850
C                                                                            TRG3860
C     BEGIN EVAPOTRANSPIRATION ITERATION LOOP                                TRG3870
C                                                                            TRG3880
      ITERMX=KOD1                                                            TRG3890
           IF(KOD1.EQ.0) ITERMX=1                                            TRG3900
           DO 4106 ITER8=1,ITERMX                                            TRG3910
           IF(KOD1.EQ.0) GO TO 4103                                          TRG3920
C                                                                            TRG3930
C     ADD EVAPOTRANSPIRATION TO DIAGONAL OF MATRIX (G) AND TO VECTOR (F)     TRG3940
C                                                                            TRG3950
      IOUT=0                                                                 TRG3960
      CALL    EVAP (H3A,RHS,LHS,INA,LAND,RATE,DEPTH,AREAA,NNA,NEA,IOUT,      TRG3970
     2   JNE,JNN,LE1,E1,E2,E3)                                               TRG3980
C                                                                            TRG3990
           DO 4102 I=1,NNA                                                   TRG4000
      F(I)=F(I)-RHS(I)                                                       TRG4010
      ICX=ICC(I)                                                             TRG4020
 4102 G(I,ICX)=G(I,ICX)+LHS(I)                                               TRG4030
 4103 CONTINUE                                                               TRG4040
C                                                                            TRG4050
C     SOLVE MATRIX EQUATION (G)*(H)=(F)                                      TRG4060
C                                                                            TRG4070
      CALL SIMQRX (IG,G,H,F,ICC,RELAX,ITMAX,EPS,ERMAX,N3,NBG,ITER,JN,JB)     TRG4080
           IF(KOD1.EQ.0) GO TO 4105                                          TRG4090
C                                                                            TRG4100
C     RESTORE MATRIX (G) AND VACTOR (F)                                      TRG4110
C                                                                            TRG4120
           DO 4104 I=1,NNA                                                   TRG4130
      F(I)=F(I)+RHS(I)                                                       TRG4140
      ICX=ICC(I)                                                             TRG4150
 4104 G(I,ICX)=G(I,ICX)-LHS(I)                                               TRG4160
 4105 CONTINUE                                                               TRG4170
C                                                                            TRG4180
C     DISAGGREGATE VECTOR (H) INTO VECTORS (H3A) AND (H3B)                   TRG4190
C                                                                            TRG4200
      JJ=1                                                                   TRG4210
      DO 420 I=1,NNA                                                         TRG4220
      H3A(I)=H(JJ)                                                           TRG4230
      JJ=JJ+1                                                                TRG4240
  420 CONTINUE                                                               TRG4250
      JJ=NNA+1                                                               TRG4260
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      DO 430 I=1,NNB                                                    TRG4270
      H3B(I)=H(JJ)                                                      TRG4280
      JJ=JJ+1                                                           TRG4290
  430 CONTINUE                                                          TRG4300
 4106 CONTINUE                                                          TRG4310
      IOUT=1                                                            TRG4320
           IF(KOD1.NE.0.AND.MOD(KNS,KOD10).EQ.0)                        TRG4330
     1    CALL EVAP (H3A,RHS,LHS,INA,LAND,RATE,DEPTH,AREAA,NNA,NEA,IOUT,  TRG4340
     2    JNE,JNN,LE1,E1,E2,E3)                                         TRG4350
      WRITE(14) (H3A(I),I=1,NNA),(H3B(I),I=1,NNB)                       TRG4360
C                                                                       TRG4370
C     PRINT WATER LEVELS                                                TRG4380
C                                                                       TRG4390
      IF (KOD10.EQ.0) GO TO 440                                         TRG4400
      IF (MOD(KNS,KOD10).EQ.0.OR.KNS.EQ.MAXKNS) GO TO 440               TRG4410
      GO TO 480                                                         TRG4420
  440 WRITE (6,450) ITER,ERMAX                                          TRG4430
      WRITE (6,460) AQF(1)                                              TRG4440
      WRITE (6,470) (I,H3A(I),I=1,NNA)                                  TRG4450
C                                                                       TRG4460
      WRITE (6,460) AQF(2)                                              TRG4470
      WRITE (6,470) (I,H3B(I),I=1,NNB)                                  TRG4480
C                                                                       TRG4490
      IF(KOD7.EQ.0) GO TO 480                                           TRG4500
      IF(MOD(KNS,KOD7).NE.0) GO TO 480                                  TRG4510
      WRITE(7,580) (H3A(I),I=1,NNA)                                     TRG4520
      WRITE(7,580) (H3B(I),I=1,NNB)                                     TRG4530
C                                                                       TRG4540
  450 FORMAT (1H0,10X,'COMPUTED WATER LEVELS'/1H ,10X,'-----------------TRG4550
     1----'/                                                            TRG4560
     2 1H0,10X,'ITERATIONS',I9/1H ,10X,'ERROR',6X,F8.4/)                TRG4570
  460 FORMAT (1H0,10X,A3,'ER AQUIFER'/1H0,10X,5('NODE',4X,'VALUE',7X)/) TRG4580
  470 FORMAT (/(10X,5(I3,3X,F9.1,5X)))                                  TRG4590
C                                                                       TRG4600
C                                                                       TRG4610
C     INTERCHANGE HEAD VALUES                                           TRG4620
C                                                                       TRG4630
 480  DO 550 I=1,NNA                                                    TRG4640
      H2A(I)=H3A(I)                                                     TRG4650
  550 CONTINUE                                                          TRG4660
      DO 560 I=1,NNB                                                    TRG4670
      H2B(I)=H3B(I)                                                     TRG4680
  560 CONTINUE                                                          TRG4690
C                                                                       TRG4700
      GO TO 240                                                         TRG4710
C                                                                       TRG4720
C     END TIME STEP LOOP                                                TRG4730
C                                                                       TRG4740
  570 IF (KOD7.NE.1) GO TO 590                                          TRG4750
      WRITE (7,580) (H3A(I),I=1,NNA)                                    TRG4760
      WRITE (7,580) (H3B(I),I=1,NNB)                                    TRG4770
C                                                                       TRG4780
  580 FORMAT (10F6.1)                                                   TRG4790
C                                                                       TRG4800
 590  WRITE(6,900)                                                      TRG4810
C                                                                       TRG4820
 900  FORMAT(1H0,10X,35('*'),' LAST TIME STEP ',35('*'))                TRG4830
C                                                                       TRG4840
C                                                                       TRG4850
C     PLOT WATER-LEVEL MAPS AND HYDROGRAPHS                             TRG4860
C                                                                       TRG4870
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      CALL PLOTS (H3A,H3B,XA,XB,YA,YB,NNA,NNB,MAXKNS,SDELT,CHNG,JNN)     TRG4880
      STOP                                                              TRG4890
      END                                                               TRG4900-
      SUBROUTINE ORDER(IV,V,MF,ML,NB,JN,JB)                             ORD  10
C                                                                       ORD  20
      LEVEL 2, IV,V                                                     ORD  30
      INTEGER   IV(JN,JB),DONE                                          ORD  40
      DOUBLE PRECISION V(JN,JB)                                         ORD  50
C                                                                       ORD  60
      NBMAX=0                                                           ORD  70
      DONE=1                                                            ORD  80
C                                                                       ORD  90
C     SORT ROWS OF MATRIX (V) BY INCREASING COLUMN NUMBER               ORD 100
C                                                                       ORD 110
      DO 50 JJ=MF,ML                                                    ORD 120
      DO 10 I=1,JB                                                      ORD 130
      IF (IV(JJ,I).EQ.0) GO TO 20                                       ORD 140
   10 CONTINUE                                                          ORD 150
   20 NB=I-1                                                            ORD 160
C                                                                       ORD 170
C     LENGTH OF LONGEST ROW                                             ORD 180
C                                                                       ORD 190
      NBMAX=AMAX0(NBMAX,NB)                                             ORD 200
      IK=0                                                              ORD 210
   30 DO 40 I=2,NB                                                      ORD 220
      IF (IV(JJ,I-1).LT.IV(JJ,I)) GO TO 40                              ORD 230
      ITEMP=IV(JJ,I)                                                    ORD 240
      IV(JJ,I)=IV(JJ,I-1)                                               ORD 250
      IV(JJ,I-1)=ITEMP                                                  ORD 260
C                                                                       ORD 270
      TEMP=V(JJ,I)                                                      ORD 280
      V(JJ,I)=V(JJ,I-1)                                                 ORD 290
      V(JJ,I-1)=TEMP                                                    ORD 300
      DONE=0                                                            ORD 310
   40 CONTINUE                                                          ORD 320
      IK=IK+1                                                           ORD 330
      IF (IK.GE.100) GO TO 60                                           ORD 340
      IF (DONE.EQ.1) GO TO 50                                           ORD 350
      DONE=1                                                            ORD 360
      GO TO 30                                                          ORD 370
   50 CONTINUE                                                          ORD 380
      NB=NBMAX                                                          ORD 390
      RETURN                                                            ORD 400
C                                                                       ORD 410
   60 WRITE (6,70) JJ                                                   ORD 420
   70 FORMAT (1H1,10X,'ORDER FAILS AT ROW',I4)                          ORD 430
      STOP                                                              ORD 440
      END                                                               ORD 450-
      SUBROUTINE LOCATE(JJ,II,COEF,IV,V,JN,JB)                          LOC  10
C                                                                       LOC  20
      LEVEL 2, IV,V                                                     LOC  30
      INTEGER   IV(JN,JB)                                               LOC  40
      DOUBLE PRECISION V(JN,JB)                                         LOC  50
C                                                                       LOC  60
C     PLACE COEFFICIENT (COEF) AT COLUMN (JJ) IN ROW (II) OF MATRIX (V) LOC  70
C                                                                       LOC  80
      DO 30 I=1,JB                                                      LOC  90
C                                                                       LOC 100
C     OPEN NEW COLUMN                                                   LOC 110
C                                                                       LOC 120
      IF (IV(JJ,I).EQ.0) GO TO 10                                       LOC 130
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C                                                                       LOC 140
C     USE COLUMN THAT HAS BEEN OPENED                                   LOC 150
C                                                                       LOC 160
      IF (IV(JJ,I).EQ.II) GO TO 20                                      LOC 170
      GO TO 30                                                          LOC 180
   10 IV(JJ,I)=II                                                       LOC 190
   20 V(JJ,I)=V(JJ,I)+COEF                                              LOC 200
      RETURN                                                            LOC 210
C                                                                       LOC 220
   30 CONTINUE                                                          LOC 230
C                                                                       LOC 240
      WRITE (6,40)                                                      LOC 250
   40 FORMAT (1H1,10X,'NEED MORE COLUMNS FOR COMPRESSED STORAGE')       LOC 260
      STOP                                                              LOC 270
      END                                                               LOC 280-
      SUBROUTINE ADD(IV1,IV2,IV3,V1,V2,V3,NN,NB1,NB2,NB3,JN,JB)         ADD  10
C                                                                       ADD  20
      LEVEL 2, IV1,IV2,IV3,V1,V2,V3                                     ADD  30
      INTEGER   IV1(JN,JB),IV2(JN,JB),IV3(JN,JB)                        ADD  40
      DOUBLE PRECISION V1(JN,JB),V2(JN,JB),V3(JN,JB)                    ADD  50
C                                                                       ADD  60
C     SUM OF MATRIX (V1) AND (V2) IS MATRIX (V3)                        ADD  70
C                                                                       ADD  80
      DO 10 JJ=1,NN                                                     ADD  90
      DO 10 I=1,JB                                                      ADD 100
   10 V3(JJ,I)=0.0                                                      ADD 110
C                                                                       ADD 120
      DO 50 JJ=1,NN                                                     ADD 130
      DO 20 I=1,NB1                                                     ADD 140
      IF (IV1(JJ,I).EQ.0) GO TO 30                                      ADD 150
      II=IV1(JJ,I)                                                      ADD 160
      V1SP=V1(JJ,I)                                                     ADD 170
      CALL LOCATE(JJ,II,V1SP,IV3,V3,JN,JB)                              ADD 180
   20 CONTINUE                                                          ADD 190
   30 DO 40 I=1,NB2                                                     ADD 200
      IF (IV2(JJ,I).EQ.0) GO TO 50                                      ADD 210
      II=IV2(JJ,I)                                                      ADD 220
      V2SP=V2(JJ,I)                                                     ADD 230
      CALL LOCATE(JJ,II,V2SP,IV3,V3,JN,JB)                              ADD 240
   40 CONTINUE                                                          ADD 250
   50 CONTINUE                                                          ADD 260
      MF=1                                                              ADD 270
      ML=NN                                                             ADD 280
      CALL ORDER(IV3,V3,MF,ML,NB3,JN,JB)                                ADD 290
      RETURN                                                            ADD 300
      END                                                               ADD 310-
      SUBROUTINE MULT(IV,V,F,H,NN,NB,JN,JB)                             MUL  10
C                                                                       MUL  20
      LEVEL 2, IV,V,F,H                                                 MUL  30
      INTEGER   IV(JN,JB)                                               MUL  40
      DOUBLE PRECISION V(JN,JB),F(JN),H(JN)                             MUL  50
C                                                                       MUL  60
C     PRODUCT OF MATRIX (V) AND VECTOR (H) IS VECTOR (F)                MUL  70
C                                                                       MUL  80
      DO 20 JJ=1,NN                                                     MUL  90
      F(JJ)=0.0                                                         MUL 100
      DO 10 I=1,NB                                                      MUL 110
      IF (IV(JJ,I).EQ.0) GO TO 20                                       MUL 120
      II=IV(JJ,I)                                                       MUL 130
      F(JJ)=F(JJ)+V(JJ,I)*H(II)                                         MUL 140
   10 CONTINUE                                                          MUL 150
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   20 CONTINUE                                                          MUL 160
      RETURN                                                            MUL 170
      END                                                               MUL 180-
      SUBROUTINE INPUT(LYR,NN,NE,IN,LEAK,AREA,H2,X,Y,COND,LAND,T,S,SC,SUINP  10
     1,TOP,RATE,DEPTH,JNE,JNN,ADJUST,INDEX)                             INP  20
C                                                                       INP  30
      LEVEL 2,IN,LEAK,AREA,X,Y,T,S,H2,COND,TOP,SC,SU,LAND               INP  40
      INTEGER IN(JNE,3)                                                 INP  50
      INTEGER LEAK(JNE),INDEX(JNE)                                      INP  60
      REAL COND(JNE),AREA(JNE),X(JNE),Y(JNE),T(JNE),S(JNE),SC(JNE),SU(JNINP  70
     1E),TOP(JNE)                                                       INP  80
      REAL H2(JNN),LAND(JNN),ADJUST(JNN)                                INP  90
      REAL AQF(2)                                                       INP 100
C                                                                       INP 110
      COMMON /FOUR/ JMO,JDA,JYR,STM,KNS,DELT,MAXKNS,CHNG,ITMAX,EPS,RELAXINP 120
     1,SDELT,HYDCON,NL,NNA,NEA,          NNB,NEB,TWLTH,SIXTH,KOD1,KOD2,INP 130
     2KOD3,KOD4,KOD5,KOD6,KOD7,KOD8,KOD9,KOD10                          INP 140
C                                                                       INP 150
      DATA AQF(1),AQF(2)/'UPP','LOW'/                                   INP 160
C                                                                       INP 170
C     AQUIFER PARAMETERS                                                INP 180
C                                                                       INP 190
      WRITE (6,10) AQF(LYR)                                             INP 200
C                                                                       INP 210
   10 FORMAT (1H0,10X,A3,'ER AQUIFER'/1H ,10X,'-------------'/)         INP 220
C                                                                       INP 230
C                                                                       INP 240
C     NUMBER OF NODES AND ELEMENTS                                      INP 250
C                                                                       INP 260
      READ (5,20) NN,NE                                                 INP 270
C                                                                       INP 280
      WRITE (6,30) NN,NE                                                INP 290
C                                                                       INP 300
   20 FORMAT (4I6)                                                      INP 310
   30 FORMAT (1H0,10X,'FINITE ELEMENT DATA'/1H ,10X,'-------------------INP 320
     1'/1H0,10X,'NUMBER OF - NODES',28X,I3/1H ,22X,'ELEMENTS',25X,I3)   INP 330
C                                                                       INP 340
C                                                                       INP 350
C     NODAL COORDINATES                                                 INP 360
C                                                                       INP 370
      READ (5,50) FACTXY                                                INP 380
      READ (5,60) (I,X(I),Y(I),K=1,NN)                                  INP 390
C                                                                       INP 400
      DO 40 I=1,NN                                                      INP 410
      X(I)=X(I)*FACTXY                                                  INP 420
      Y(I)=Y(I)*FACTXY                                                  INP 430
   40 CONTINUE                                                          INP 440
C                                                                       INP 450
      WRITE (6,70) FACTXY                                               INP 460
      WRITE (6,80) (I,X(I),Y(I),I=1,NN)                                 INP 470
C                                                                       INP 480
   50 FORMAT (E12.0)                                                    INP 490
   60 FORMAT (3(I5,2F10.0))                                             INP 500
   70 FORMAT (1H0,10X,'NODE COORDINATES'/1H ,10X,'----------------'/1H0,INP 510
     110X,'MULTIPLICATION FACTOR FOR X AND Y',3X,E7.1/1H0,10X,3('NODE',8INP 520
     2X,'X',11X,'Y',7X)/)                                               INP 530
   80 FORMAT (/(10X,3(I3,F12.1,F12.1,6X)))                              INP 540
C                                                                       INP 550
C                                                                       INP 560
C     ELEMENT INCIDENCES                                                INP 570
C                                                                       INP 580
```

```
      READ (5,90) (I,(IN(I,J),J=1,3),K=1,NE)                            INP 590
C                                                                       INP 600
      WRITE (6,100)                                                     INP 610
      WRITE (6,110) (I,(IN(I,J),J=1,3),I=1,NE)                          INP 620
C                                                                       INP 630
   90 FORMAT (3(4I5,5X))                                                INP 640
  100 FORMAT (1H0,10X,'ELEMENT INCIDENCES'/1H ,10X,'------------------'/INP 650
     11H0,10X,3('ELE',10X,'CORNERS',13X)/)                              INP 660
  110 FORMAT (/(10X,3(I3,2X,3I6,10X)))                                  INP 670
C                                                                       INP 680
C     ELEMENT TRANSMISSIVITY                                            INP 690
C                                                                       INP 700
      READ (5,170) FACT                                                 INP 710
      READ (5,180) (T(I),I=1,NE)                                        INP 720
      ADJUST(1)=1.0                                                     INP 730
      DO 120 I=1,NE                                                     INP 740
  120 INDEX(I)=1                                                        INP 750
C                                                                       INP 760
      IF (KOD8.NE.1) GO TO 140                                          INP 770
      READ (5,150) NF                                                   INP 780
      READ (5,180) (ADJUST(I),I=1,NF)                                   INP 790
      WRITE(6,990)                                                      INP 800
      WRITE(6,992) (ADJUST(I),I=1,NF)                                   INP 810
      READ (5,150) (INDEX(I),I=1,NE)                                    INP 820
  140 CONTINUE                                                          INP 830
C                                                                       INP 840
 990 0FORMAT(1H0,10X,'BLOCK ADJUSTMENT INDEX FOR TRANSMISSIVITY'/       INP 850
     11H ,10X,41('-')/)                                                 INP 860
 992  FORMAT(1H ,10X,10F10.3)                                           INP 870
  150 FORMAT (10I6)                                                     INP 880
C                                                                       INP 890
      DO 160 I=1,NE                                                     INP 900
      T(I)=T(I)*FACT*ADJUST(INDEX(I))                                   INP 910
  160 CONTINUE                                                          INP 920
C                                                                       INP 930
      WRITE (6,190) FACT                                                INP 940
      WRITE (6,200) (I,T(I),I=1,NE)                                     INP 950
C     WRITE (7,201) (T(I),I=1,NE)                                       INP 960
C                                                                       INP 970
  170 FORMAT (E12.0)                                                    INP 980
  180 FORMAT (10F6.0)                                                   INP 990
  190 FORMAT (1H0,10X,'ELEMENT TRANSMISSIVITY'/1H ,10X,'----------------INP1000
     1------'/1H0,10X,'MULTIPLICATION FACTOR FOR T',3X,E7.1/1H0,10X,5('EINP1010
     2LE',5X,'VALUE',7X)/)                                              INP1020
  200 FORMAT (/(10X,5(I3,3X,F9.4,5X)))                                  INP1030
  201 FORMAT (10(1X,F5.4))                                              INP1040
C                                                                       INP1050
C                                                                       INP1060
      IF(KOD9.NE.1) GO TO 219                                           INP1070
      IF(LYR.NE.1) GO TO 219                                            INP1080
      READ (5,240) FACS                                                 INP1090
      READ (5,250) (SC(I),I=1,NE)                                       INP1100
      IF (KOD8.NE.1) GO TO 211                                          INP1110
      READ (5,150) NF                                                   INP1120
      READ (5,180) (ADJUST(I),I=1,NF)                                   INP1130
      WRITE(6,993)                                                      INP1140
      WRITE(6,992) (ADJUST(I),I=1,NF)                                   INP1150
      READ (5,150) (INDEX(I),I=1,NE)                                    INP1160
 9930FORMAT(1H0,5X,'BLOCK ADJUSTMENT INDEX FOR CONFINED STORAGE COEFFICINP1170
     1IENT'/1H ,10X,46('-')/)                                           INP1180
  211 CONTINUE                                                          INP1190
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      DO 212 I=1,NE                                                     INP1200
      SC(I)=SC(I)*FACS*ADJUST(INDEX(I))                                 INP1210
  212 CONTINUE                                                          INP1220
      WRITE(6,261) FACS                                                 INP1230
 2610FORMAT(1H0,10X,'ELEMENT CONFINED STORAGE COEFFICIENT'/1H ,10X,37('INP1240
     1-')/1H0,10X,'MULTIPLICATION FACTOR FOR S CONFINED',3X,E7.1/1H0,10XINP1250
     2,5('ELE',5X,'VALUE',7X)/)                                         INP1260
      WRITE (6,270) (I,SC(I),I=1,NE)                                    INP1270
C                                                                       INP1280
      READ (5,240) FACS                                                 INP1290
      READ (5,250) (SU(I),I=1,NE)                                       INP1300
      IF(KOD8.NE.1) GO TO 213                                           INP1310
      READ (5,150) NF                                                   INP1320
      READ (5,180) (ADJUST(I),I=1,NF)                                   INP1330
      WRITE(6,994)                                                      INP1340
      WRITE(6,992) (ADJUST(I),I=1,NF)                                   INP1350
      READ (5,150) (INDEX(I),I=1,NE)                                    INP1360
 9940FORMAT(1H0,4X,'BLOCK ADJUSTMENT INDEX FOR UNCONFINED STORAGE COEFFINP1370
     1ICIENT'/1H ,10X,46('-')/)                                         INP1380
  213 CONTINUE                                                          INP1390
      WRITE(6,262) FACS                                                 INP1400
 2620FORMAT(1H0,10X,'ELEMENT UNCONFINED STORAGE COEFFICIENT'/1H ,10X,37INP1410
     1('-')/1H0,10X,'MULTIPLICATION FACTOR FOR S UNCONFINED',3X,E7.1/1H0INP1420
     2,10X,5('ELE',5X,'VALUE',7X)/)                                     INP1430
C                                                                       INP1440
      DO 214 I=1,NE                                                     INP1450
      SU(I)=SU(I)*FACS*ADJUST(INDEX(I))                                 INP1460
  214 CONTINUE                                                          INP1470
      WRITE(6,270) (I,SU(I),I=1,NE)                                     INP1480
C                                                                       INP1490
      READ (5,240) FACTOP                                               INP1500
      READ (5,250) (TOP(I),I=1,NE)                                      INP1510M
      DO 215 I=1,NE                                                     INP1520
      TOP(I)=TOP(I)*FACTOP                                              INP1530
  215 CONTINUE                                                          INP1540
      WRITE(6,995) FACTOP                                               INP1550
      WRITE(6,996) (I,TOP(I),I=1,NE)                                    INP1560
  995 FORMAT(1H0,10X,'ELEMENT  TOP  COEFFICIENT'/1H,10X,'---------------INP1570
     1---------------'/1H0,10X,'MULTIPLICATION FACTOR FOR TOP',3X,E7.1/INP1580
     21H0,10X,5('ELE',5X,'VALUE',7X)/)                                  INP1590
  996 FORMAT(/(10X,5(I3,F9.0,5X)))                                      INP1600
      GO TO 271                                                         INP1610
  219 CONTINUE                                                          INP1620
      READ (5,240) FACS                                                 INP1630
      READ (5,250) (S(I),I=1,NE)                                        INP1640
C                                                                       INP1650
      IF (KOD8.NE.1) GO TO 220                                          INP1660
      READ (5,150) NF                                                   INP1670
      READ (5,180) (ADJUST(I),I=1,NF)                                   INP1680
      WRITE(6,991)                                                      INP1690
      WRITE(6,992) (ADJUST(I),I=1,NF)                                   INP1700
      READ (5,150) (INDEX(I),I=1,NE)                                    INP1710
  220 CONTINUE                                                          INP1720
C                                                                       INP1730
      DO 230 I=1,NE                                                     INP1740
      S(I)=S(I)*FACS*ADJUST(INDEX(I))                                   INP1750
  230 CONTINUE                                                          INP1760
C                                                                       INP1770
      WRITE (6,260) FACS                                                INP1780
      WRITE (6,270) (I,S(I),I=1,NE)                                     INP1790
C                                                                       INP1800
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 991 0FORMAT(1H0,10X,'BLOCK ADJUSTMENT INDEX FOR STORAGE COEFFICIENT'/  INP1810
     11H ,10X,46('-')/)                                                INP1820
  240 FORMAT (E12.0)                                                   INP1830
  250 FORMAT (10F6.0)                                                  INP1840
  260 FORMAT (1H0,10X,'ELEMENT STORAGE COEFFICIENT'/1H ,10X,'----------INP1850
     1----------------'/1H0,10X,'MULTIPLICATION FACTOR FOR S',3X,E7.1/1HINP1860
     20,10X,5('ELE',5X,'VALUE',7X)/)                                   INP1870
  270 FORMAT (/(10X,5(I3,3X,F9.5,5X)))                                 INP1880
  271 CONTINUE                                                         INP1890
C                                                                      INP1900
      IF (NL.EQ.0) GO TO 310                                           INP1910
C                                                                      INP1920
C     LEAKY ELEMENTS                                                   INP1930
C                                                                      INP1940
      READ (5,280) (LEAK(I),I=1,NL)                                    INP1950
C                                                                      INP1960
      WRITE (6,290)                                                    INP1970
      WRITE (6,300) (LEAK(I),I=1,NL)                                   INP1980
C                                                                      INP1990
  280 FORMAT (10I6)                                                    INP2000
  290 FORMAT (1H0,10X,'LEAKY ELEMENTS'/1H ,10X,'--------------'/)      INP2010
  300 FORMAT (1H ,3X,10I10)                                            INP2020
C                                                                      INP2030
  310 CONTINUE                                                         INP2040
C                                                                      INP2050
      IF (KOD1.EQ.0.OR.LYR.NE.1) GO TO 360                             INP2060
C                                                                      INP2070
C     EVAPOTRANSPIRATION PARAMETERS                                    INP2080
C                                                                      INP2090
      READ (5,320) RATE,DEPTH                                          INP2100
      READ (5,340) (LAND(I),I=1,NN)                                    INP2110
C                                                                      INP2120
      WRITE (6,330) RATE,DEPTH                                         INP2130
      WRITE (6,350) (I,LAND(I),I=1,NN)                                 INP2140
C                                                                      INP2150
  320 FORMAT (E12.0,F6.0)                                              INP2160
  330 FORMAT (1H0,10X,'LAND SURFACE ELEVATION'/1H ,10X,'----------------INP2170
     1------'/1H0,10X,'EVAPOTRANSPIRATION RATE',7X,E9.3/1H ,10X,'EFFECTIINP2180
     2VE DEPTH OF ET',8X,F4.1/1H0,10X,5('NODE',4X,'VALUE',7X)/)        INP2190
  340 FORMAT (10F6.0)                                                  INP2200
  350 FORMAT (/(10X,5(I3,3X,F9.1,5X)))                                 INP2210
C                                                                      INP2220
  360 CONTINUE                                                         INP2230
C                                                                      INP2240
C                                                                      INP2250
C     INITIAL WATER LEVELS                                             INP2260
C                                                                      INP2270
      READ (5,370) (H2(I),I=1,NN)                                      INP2280
C                                                                      INP2290
      WRITE (6,380)                                                    INP2300
      WRITE (6,390) (I,H2(I),I=1,NN)                                   INP2310
C                                                                      INP2320
  370 FORMAT (10F6.0)                                                  INP2330
  380 FORMAT (1H0,10X,'INITIAL WATER LEVELS'/1H ,10X,'----------------INP2340
     1--'/1H0,10X,5('NODE',4X,'VALUE',7X)/)                            INP2350
  390 FORMAT (/(10X,5(I3,3X,F9.1,5X)))                                 INP2360
      IF(KOD9.NE.1) GO TO 501                                          INP2370
      IF(LYR.NE.1) GO TO 501                                           INP2380
      DO 499 I=1,NE                                                    INP2390
      HAVE=0.0                                                         INP2400
      DO 502 II=1,3                                                    INP2410
```

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      III=IN(I,II)                                                      INP2420
      HAVE=HAVE+H2(III)                                                 INP2430
  502 CONTINUE                                                          INP2440
      HAVE=HAVE/3.0                                                     INP2450
      IF(HAVE.LT.TOP(I)) GO TO 503                                      INP2460
      S(I)=SC(I)                                                        INP2470
      GO TO 499                                                         INP2480
  503 S(I)=SU(I)                                                        INP2490
  499 CONTINUE                                                          INP2500
  501 CONTINUE                                                          INP2510
      RETURN                                                            INP2520
      END                                                               INP2530-
      SUBROUTINE MATRIX (LYR,NN,NE,IN,IN2,LEAK,LEAK2,T,S,AREA,X,Y,COND, MAT  10
     1    IA,A,IB,B,N1,N2,N3,JNE,JN,JB,JNN)                             MAT  20
                                                                        MAT  30
C                                                                       MAT  40
      LEVEL 2, IN,IN2,LEAK,LEAK2,T,S,AREA,X,Y,COND,IA,IB,B              MAT  50
      INTEGER   IN(JNE,3),IN2(JNE,3),LEAK(JNE),LEAK2(JNE),IA(JN,JB),IB(JMAT  60
     1N,JB)                                                             MAT  70
      REAL    COND(JNE),AREA(JNE),X(JNN),Y(JNN),T(JNE),S(JNE)           MAT  80
      DOUBLE PRECISION A(JN,JB),B(JN,JB)                                MAT  90
      REAL    XE(3),YE(3),AE(3,3),BE(3,3),D(3),E(3)                     MAT 100
C                                                                       MAT 110
      COMMON /FOUR/ JMO,JDA,JYR,STM,KNS,DELT,MAXKNS,CHNG,ITMAX,EPS,RELAXMAT 120
     1,SDELT,HYDCON,NL,NNA,NEA,          NNB,NEB,TWLTH,SIXTH,KOD1,KOD2,MAT 130
     2KOD3,KOD4,KOD5,KOD6,KOD7,KOD8,KOD9,KOD10                          MAT 140
C                                                                       MAT 150
      DO 80 L=1,NE                                                      MAT 160
C                                                                       MAT 170
C     ELEMENT STIFFNESS MATRIX (AE) AND DYNAMIC MATRIX (BE) THIS AQUIFERMAT 180
C                                                                       MAT 190
      DO 10 I=1,3                                                       MAT 200
      II=IN(L,I)                                                        MAT 210
      XE(I)=X(II)                                                       MAT 220
      YE(I)=Y(II)                                                       MAT 230
   10 CONTINUE                                                          MAT 240
C                                                                       MAT 250
      D(1)=YE(2)-YE(3)                                                  MAT 260
      D(2)=YE(3)-YE(1)                                                  MAT 270
      D(3)=YE(1)-YE(2)                                                  MAT 280
      E(1)=XE(3)-XE(2)                                                  MAT 290
      E(2)=XE(1)-XE(3)                                                  MAT 300
      E(3)=XE(2)-XE(1)                                                  MAT 310
C                                                                       MAT 320
      AREA(L)=(D(1)*XE(1)+D(2)*XE(2)+D(3)*XE(3))/2.0                    MAT 330
C                                                                       MAT 340
      ILK=0                                                             MAT 350
      DO 20 KK=1,NL                                                     MAT 360
      JJ=LEAK(KK)                                                       MAT 370
      IF(JJ.NE.L) GO TO 20                                              MAT 380
      ILK=1                                                             MAT 390
      GO TO 21                                                          MAT 400
   20 CONTINUE                                                          MAT 410
   21 CONTINUE                                                          MAT 420
C                                                                       MAT 430
      DO 50 I=1,3                                                       MAT 440
C                                                                       MAT 450
      DO 40 J=1,3                                                       MAT 460
C                                                                       MAT 470
      AE(I,J)=T(L)*(D(I)*D(J)+E(I)*E(J))/(4.0*AREA(L))                  MAT 480
      IF (ILK.EQ.0) GO TO 30                                            MAT 490
      COEF=TWLTH
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      IF (I.EQ.J) COEF=SIXTH                                            MAT 500
      AE(I,J)=AE(I,J)+AREA(L)*COND(KK)*COEF                             MAT 510
C                                                                       MAT 520
   30 CONTINUE                                                          MAT 530
      BE(I,J)=AREA(L)*S(L)*TWLTH                                        MAT 540
      IF (I.EQ.J) BE(I,J)=BE(I,J)*2.0                                   MAT 550
C                                                                       MAT 560
   40 CONTINUE                                                          MAT 570
   50 CONTINUE                                                          MAT 580
C                                                                       MAT 590
C                                                                       MAT 600
C     GLOBAL STIFFNESS MATRIX (A) AND DYNAMIC MATRIX (B) THIS AQUIFER   MAT 610
C                                                                       MAT 620
      DO 70 J=1,3                                                       MAT 630
      JJ=IN(L,J)+N1                                                     MAT 640
C                                                                       MAT 650
      DO 60 I=1,3                                                       MAT 660
C                                                                       MAT 670
      II=IN(L,I)+N1                                                     MAT 680
      CALL LOCATE(JJ,II,AE(I,J),IA,A,JN,JB)                             MAT 690
      CALL LOCATE(JJ,II,BE(I,J),IB,B,JN,JB)                             MAT 700
C                                                                       MAT 710
   60 CONTINUE                                                          MAT 720
   70 CONTINUE                                                          MAT 730
   80 CONTINUE                                                          MAT 740
C                                                                       MAT 750
      DO 110 K=1,NL                                                     MAT 760
      L=LEAK(K)                                                         MAT 770
      L2=LEAK2(K)                                                       MAT 780
C                                                                       MAT 790
C     ELEMENT STIFFNESS MATRIX (AE) OTHER AQUIFER                       MAT 800
C                                                                       MAT 810
      DO 100 J=1,3                                                      MAT 820
      JJ=IN(L,J)+N1                                                     MAT 830
      DO 90 I=1,3                                                       MAT 840
      II=IN2(L2,I)+N2                                                   MAT 850
      COEF=TWLTH                                                        MAT 860
      IF (I.EQ.J) COEF=SIXTH                                            MAT 870
      FE3=-AREA(L)*COND(K)*COEF                                         MAT 880
C                                                                       MAT 890
C     GLOBAL STIFFNESS MATRIX(A) OTHER AQUIFER                          MAT 900
C                                                                       MAT 910
      CALL LOCATE(JJ,II,FE3,IA,A,JN,JB)                                 MAT 920
   90 CONTINUE                                                          MAT 930
  100 CONTINUE                                                          MAT 940
  110 CONTINUE                                                          MAT 950
C                                                                       MAT 960
      RETURN                                                            MAT 970
      END                                                               MAT 980-
      SUBROUTINE EVAP (H3,RHS,LHS,IN,LAND,RATE,DEPTH,AREA,NN,NE,IOUT,   EVA  10
     1   JNE,JNN,LE1,E1,E2,E3)                                          EVA  20
C                                                                       EVA  30
      LEVEL 2, H3,RHS,LHS,IN,LAND,AREA                                  EVA  40
      INTEGER   IN(JNE,3),LE1(JNN)                                      EVA  50
      REAL    AREA(JNE)                                                 EVA  60
      REAL    H3(JNN),LHS(JNN),RHS(JNN),LAND(JNN)                       EVA  70
      REAL    E1(JNN),E2(JNN),E3(JNN)                                   EVA  80
      REAL    FER(3),FEL(3)                                             EVA  90
C                                                                       EVA 100
      COMMON /FOUR/ JMO,JDA,JYR,STM,KNS,DELT,MAXKNS,CHNG,ITMAX,EPS,RELAXEVA 110
     1,SDELT,HYDCON,NL,NNA,NEA,          NNB,NEB,TWLTH,SIXTH,KOD1,KOD2,EVA 120
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     2KOD3,KOD4,KOD5,KOD6,KOD7,KOD8,KOD9,KOD10                          EVA 130
C                                                                       EVA 140
           IF(IOUT.EQ.1) GO TO 1000                                     EVA 150
C                                                                       EVA 160
      THIRD=1.0/3.0                                                     EVA 170
C                                                                       EVA 180
C     NODE EVAPOTRANSPIRATION RATE                                      EVA 190
C                                                                       EVA 200
      DO 30 I=1,NN                                                      EVA 210
      E1(I)=0.0                                                         EVA 220
      E2(I)=0.0                                                         EVA 230
      E3(I)=0.0                                                         EVA 240
      RHS(I)=0.0                                                        EVA 250
      LHS(I)=0.0                                                        EVA 260
      DELH=LAND(I)-H3(I)                                                EVA 270
           IF(DELH.GE.DEPTH) GO TO 30                                   EVA 280
      E1(I)=RATE                                                        EVA 290
      E2(I)=-RATE*LAND(I)/DEPTH                                         EVA 300
      E3(I)=RATE/DEPTH                                                  EVA 310
   30 CONTINUE                                                          EVA 320
C                                                                       EVA 330
C     GLOBAL FORCE VECTOR FOR ET DISCHARGE (F2)                         EVA 340
C                                                                       EVA 350
      DO 90 L=1,NE                                                      EVA 360
      DO 80 I=1,3                                                       EVA 370
      II=IN(L,I)                                                        EVA 380
      RHS(II)=RHS(II)+(E1(II)+E2(II))*AREA(L)*THIRD                     EVA 390
      LHS(II)=LHS(II)+E3(II)*AREA(L)*THIRD                              EVA 400
   80 CONTINUE                                                          EVA 410
   90 CONTINUE                                                          EVA 420
C                                                                       EVA 430
      RETURN                                                            EVA 440
C                                                                       EVA 450
1000  IF (KOD10.EQ.0) GO TO 100                                         EVA 460
      IF (MOD(KNS,KOD10).EQ.0.OR.KNS.EQ.MAXKNS) GO TO 100              EVA 470
      GO TO 130                                                         EVA 480
 100  JJ=1                                                              EVA 490
      SUM=0.0                                                           EVA 500
           DO 150 I=1,NN                                                EVA 510
      E1(I)=RHS(I)+LHS(I)*H3(I)                                         EVA 520
           IF(E1(I).LE.0.000001) GO TO 150                              EVA 530
      LE1(JJ)=I                                                         EVA 540
      JJ=JJ+1                                                           EVA 550
 150  SUM=SUM+E1(I)                                                     EVA 560
           IF(JJ.EQ.1) RETURN                                           EVA 570
      JJ=JJ-1                                                           EVA 580
      WRITE(6,110) SUM                                                  EVA 590
      WRITE(6,120) (LE1(I),E1(LE1(I)),I=1,JJ)                           EVA 600
C                                                                       EVA 610
  110 FORMAT (1H0,10X,'EVAPOTRANSPIRATION DISCHARGE'/1H ,10X,'----------EVA 620
     1----------'/1H0,10X,'TOTAL DISCHARGE',1PE12.3/                    EVA 630
     2                                                  1H0,10X,5('EEVA 640
     3LE',5X,'VALUE',7X)/)                                              EVA 650
  120 FORMAT (/(10X,5(I3,3X,F9.3,5X)))                                  EVA 660
C                                                                       EVA 670
  130 RETURN                                                            EVA 680
      END                                                               EVA 690-
      SUBROUTINE SIMQRX (IG,G,H,F,ICC,RELAX,ITMAX,EPS,ERMAX,NN,NBG,ITER,SQX  10
     1JN,JB)                                                            SQX  20
C                                                                       SQX  30
      LEVEL 2, IG,G,H,F,ICC                                             SQX  40
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      INTEGER   IG(JN,JB),ICC(JN)                                       SQX  50
      DOUBLE PRECISION G(JN,JB),F(JN),H(JN),HNEW,SUM                    SQX  60
C                                                                       SQX  70
C                                                                       SQX  80
      ITER=0                                                            SQX  90
  800 ITER=ITER+1                                                       SQX 100
      ERMAX=0.0                                                         SQX 110
C                                                                       SQX 120
      DO 600 JJ=1,NN                                                    SQX 130
         SUM=0.0                                                        SQX 140
         DO 300 I=1,NBG                                                 SQX 150
            II=IG(JJ,I)                                                 SQX 160
            IF(II.EQ.0) GO TO 400                                       SQX 170
            IF(II.EQ.JJ) GO TO 300                                      SQX 180
            SUM=SUM+G(JJ,I)*H(II)                                       SQX 190
  300    CONTINUE                                                       SQX 200
  400    CONTINUE                                                       SQX 210
C                                                                       SQX 220
         ICX=ICC(JJ)                                                    SQX 230
         HNEW=(F(JJ)-SUM)/G(JJ,ICX)                                     SQX 240
         RESID=HNEW-H(JJ)                                               SQX 250
         H(JJ)=H(JJ)+RELAX*RESID                                        SQX 260
         RESID=ABS(RESID)                                               SQX 270
         ERMAX=AMAX1(ERMAX,RESID)                                       SQX 280
C                                                                       SQX 290
  600 CONTINUE                                                          SQX 300
C                                                                       SQX 310
      IF(ITER.EQ.ITMAX.OR.ERMAX.LE.EPS) RETURN                          SQX 320
      GO TO 800                                                         SQX 330
C                                                                       SQX 340
      END                                                               SQX 350-
      SUBROUTINE PLOTS (H3A,H3B,XA,XB,YA,YB,NNA,NNB,ITMAX,              PLT  10
     1     SDELT,CHNG,JNN)                                              PLT  20
      LEVEL 2, H3A,H3B,XA,XB,YA,YB                                      PLT  30
      REAL H3A(JNN),H3B(JNN),XA(JNN),XB(JNN),YA(JNN),YB(JNN)            PLT  40
      INTEGER PTYPE                                                     PLT  50
      REAL HOA(178),HOB(178),XP(178),YP(178),FP(178)                    PLT  60
      REAL MO(500),DA(500),YR(500),WLM(500),TM(500),WLC(500),TC(500)    PLT  70
      REAL TITLE(20),FQAR(740)                                          PLT  80
      REAL MOX(4),DAX(4),YRX(4),WLMX(4),AQF(2)                          PLT  90
C                                                                       PLT 100
      DATA AQF /'UPP','LOW'/                                            PLT 110
C                                                                       PLT 120
      JPD=500                                                           PLT 130
C     CALL JULDAT(JYR,JMO,JDA)                                          PLT 140
      JMO=0                                                             PLT 150
      JDA=0                                                             PLT 160
      JYR=0                                                             PLT 170
  100 READ(5,900) PTYPE,IDPLT,IDPLT2,TITLE                              PLT 180
          IF(PTYPE.EQ.0) STOP                                           PLT 190
      IF (PTYPE.EQ.-1)GO TO 200                                         PLT 200
C                                                                       PLT 210
          IF(PTYPE.EQ.1) GO TO 200                                      PLT 220
          IF(PTYPE.EQ.3) GO TO 400                                      PLT 230
          GO TO 100                                                     PLT 240
C                                                                       PLT 250
C     PLOT MAP OF HEAD                                                  PLT 260
  200 READ(5,902) XMIN,XMAX,YMIN,YMAX,NXD,NSBX,NYD,NSBY,ND,SCALE        PLT 270
      COEF=0.0                                                          PLT 280
      IF (PTYPE.EQ.-1)COEF=1.0                                          PLT 290
C                                                                       PLT 300
```

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      IDPLT=IDPLT+1                                                     PLT 310
      REWIND 14                                                         PLT 320
      READ(14) (H3A(L),L=1,NNA),(H3B(L),L=1,NNB)                        PLT 330
      DO 1005 L=1,NNA                                                   PLT 340
 1005 HOA(L)=H3A(L)                                                     PLT 350
      DO 1006 L=1,NNB                                                   PLT 360
 1006 HOB(L)=H3B(L)                                                     PLT 370
      IF (IDPLT.LT.2) GO TO 2015                                        PLT 380
      DO 201 I=2,IDPLT                                                  PLT 390
      READ(14) (H3A(L),L=1,NNA),(H3B(L),L=1,NNB)                        PLT 400
 201  CONTINUE                                                          PLT 410
 2015 IDPLT=IDPLT-1                                                     PLT 420
C                                                                       PLT 430
           DO 203 J=1,2                                                 PLT 440
           IF(J.EQ.2) GO TO 2022                                        PLT 450
           DO 2021 I=1,NNA                                              PLT 460
      XP(I)=XA(I)                                                       PLT 470
      YP(I)=YA(I)                                                       PLT 480
 2021 FP(I)=(H3A(I)-HOA(I)*COEF)*SCALE                                  PLT 490
           GO TO 2024                                                   PLT 500
 2022      DO 2023 I=1,NNB                                             PLT 510
      XP(I)=XB(I)                                                       PLT 520
      YP(I)=YB(I)                                                       PLT 530
 2023 FP(I)=(H3B(I)-HOB(I)*COEF)*SCALE                                  PLT 540
 2024 CONTINUE                                                          PLT 550
      NDATA=NNA                                                         PLT 560
           IF(J.EQ.2) NDATA=NNB                                         PLT 570
C                                                                       PLT 580
      WRITE(6,801) TITLE,IDPLT                                          PLT 590
      WRITE(6,905) AQF(J)                                               PLT 600
      WRITE (6,99) JMO,JDA,JYR                                          PLT 610
      CALL MAP (XMIN,XMAX,YMIN,YMAX,NXD,NSBX,NYD,NSBY,ND,XP,YP,FP,      PLT 620
     1   NDATA,JNN)                                                     PLT 630
      WRITE(6,908)                                                      PLT 640
 203  CONTINUE                                                          PLT 650
           GO TO 100                                                    PLT 660
C                                                                       PLT 670
C     PLOT WATER-LEVEL HYDROGRAPHS                                      PLT 680
 400  READ(5,906) TMIN,TMAX,HMIN,HMAX,NTD,NSBT,NHD,NSBH,SCALEM,SCALEC   PLT 690
      READ(5,903) NMEAS,SMO,SDA,SYR,DATUM,WTH3A,WTH3B                   PLT 700
C                                                                       PLT 710
      STIME=SYR*12.0+SMO+SDA/30.0                                       PLT 720
      DELT=SDELT/(3600.0*24.0*365.0/12.0)                               PLT 730
C                                                                       PLT 740
           IF(NMEAS.EQ.0) GO TO 4061                                    PLT 750
      I=1                                                               PLT 760
 406  READ(5,904) (MOX(K),DAX(K),YRX(K),WLMX(K),K=1,4)                  PLT 770
           DO 407 K=1,4                                                 PLT 780
      MO(I)=MOX(K)                                                      PLT 790
      DA(I)=DAX(K)                                                      PLT 800
      YR(I)=YRX(K)                                                      PLT 810
      WLM(I)=WLMX(K)                                                    PLT 820
           IF(I.EQ.NMEAS) GO TO 408                                     PLT 830
 407  I=I+1                                                             PLT 840
           GO TO 406                                                    PLT 850
 408       DO 401 I=1,NMEAS                                            PLT 860
      WLM(I)=DATUM-WLM(I)*SCALEM                                        PLT 870
 401  TM(I)=YR(I)*12.0+MO(I)+DA(I)/30.0-STIME                           PLT 880
C                                                                       PLT 890
 4061 REWIND 14                                                         PLT 900
      TIME=-DELT                                                        PLT 910
```

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      ITLAST=ITMAX+1                                                    PLT 920
           DO 402 I=1,ITLAST                                            PLT 930
      READ(14) (H3A(L),L=1,NNA),(H3B(L),L=1,NNB)                        PLT 940
      TIME=TIME+DELT                                                    PLT 950
           IF(CHNG.NE.1.0)          DELT=DELT*CHNG                      PLT 960
      TC(I)=TIME                                                        PLT 970
      WLC(I)=H3A(IDPLT)*WTH3A+H3B(IDPLT2)*WTH3B                         PLT 980
      WLC(I)=WLC(I)*SCALEC                                              PLT 990
  402 CONTINUE                                                          PLT1000
      NCOMP=ITLAST                                                      PLT1010
      WRITE(6,800) TITLE                                                PLT1020
      WRITE (6,99) JMO,JDA,JYR                                          PLT1030
      CALL GRAPH(TMIN,TMAX,HMIN,HMAX,NTD,NSBT,NHD,NSBH,WLC,TC,NCOMP,    PLT1040
     1   WLM,TM,NMEAS,JPD)                                              PLT1050
           GO TO 100                                                    PLT1060
C                                                                       PLT1070
  900 FORMAT(3I6/20A4)                                                  PLT1080
  950 FORMAT(10I6)                                                      PLT1090
  960 FORMAT(1H1,'NO PLOTS PRODUCED BECAUSE ISTOP EQUALS',I5)           PLT1100
  902 FORMAT(4F10.0,5I5,F10.0)                                          PLT1110
  800 FORMAT(1H1,10X,20A4)                                              PLT1120
  801 FORMAT(1H1,10X,20A4,' TIME STEP',I4)                              PLT1130
  903 FORMAT(I5,3F5.0,3F10.0)                                           PLT1140
  904 FORMAT(19X,4(3F2.0,F7.2,1X))                                      PLT1150
  905 FORMAT(1H ,10X,A3,'ER AQUIFER')                                   PLT1160
  906 FORMAT(4F10.0,4I5,2F10.0)                                         PLT1170
  908 FORMAT(/////)                                                     PLT1180
   99 FORMAT (1H0,10X,'DATE',2X,I2,'/',I2,'/',I2/)                      PLT1190
      END                                                               PLT1200-
      SUBROUTINE MAP  (XMINO,XMAXO,YMINO,YMAXO,NXDO,NSBX,NYDO,NSBY,     MAP  10
     1   NDO,XO,YO,CC,NN,JNN)                                           MAP  20
C                                                                       MAP  30
      REAL IMAGE(9000)                                                  MAP  40
C                                                                       MAP  50
      REAL    XO(JNN),YO(JNN),CC(JNN)                                   MAP  60
      REAL    SYM(12),X(1),Y(1),XMAX(10),XMIN(10),YMAX(10),YMIN(10),    MAP  70
     1        LABEL(80),FOR3(5),ABNOS(26)                               MAP  80
      INTEGER   NSCALE(5),ISYM(12)                                      MAP  90
C                                                                       MAP 100
C                                                                       MAP 110
      DATA SYM/1H0,1H1,1H2,1H3,1H4,1H5,1H6,1H7,1H8,1H9,1H-,1H /         MAP 120
      DATA LABEL /24*1H ,1HX,1H ,1HC,1HO,1HO,1HR,1HD,1HI,1HN,1HA,1HT,   MAP 130
     1   1HE,44*1H /                                                    MAP 140
      EPS1=1.0                                                          MAP 150
C                                                                       MAP 160
C                                                                       MAP 170
C     MAP SCALES                                                        MAP 180
C                                                                       MAP 190
      SCALEX=NSBX*NXDO/(XMAXO-XMINO)/6.0                                MAP 200
      SCALEY=NSBY*NYDO/(YMAXO-YMINO)/10.0                               MAP 210
C                                                                       MAP 220
C     VERTICAL AND HORIZONTAL DISTANCE BETWEEN CHARACTERS (MAP SCALE)   MAP 230
C                                                                       MAP 240
      YSPACE=0.1/SCALEY                                                 MAP 250
      XSPACE=0.1666667/SCALEX                                           MAP 260
C                                                                       MAP 270
C     SIZE OF PLOT (INCHES)                                             MAP 280
C                                                                       MAP 290
      DX=(XMAXO-XMINO)*SCALEX                                           MAP 300
      DY=(YMAXO-YMINO)*SCALEY                                           MAP 310
C                                                                       MAP 320
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C     SPACE BETWEEN GRID LINES (INCHES)                                 MAP 330
C                                                                       MAP 340
      DELY=DY/NYDO                                                      MAP 350
      DELX=DX/NXDO                                                      MAP 360
C                                                                       MAP 370
C     WIDTH OF PLOT (PAGES)                                             MAP 380
C                                                                       MAP 390
      JCROSS=1                                                          MAP 400
      YMIN(1)=YMINO                                                     MAP 410
      YMAX(1)=YMAXO                                                     MAP 420
      IF (DY.LE.10.0) GO TO 20                                          MAP 430
C                                                                       MAP 440
      JCROSS=2                                                          MAP 450
      RANGEY=INT(10.0/DELY+0.5)*DELY/SCALEY                             MAP 460
      YMIN(1)=YMINO                                                     MAP 470
      YMAX(1)=YMIN(1)+RANGEY                                            MAP 480
      YMIN(2)=YMAX(1)-DELY/SCALEY                                       MAP 490
      YMAX(2)=YMAXO                                                     MAP 500
      DY2=(YMAX(2)-YMIN(2))*SCALEY                                      MAP 510
      IF (DY2.LE.10.0) GO TO 20                                         MAP 520
C                                                                       MAP 530
      WRITE (6,10)                                                      MAP 540
   10 FORMAT (1H1,'PLOT IS WIDER THAN TWO PAGES')                       MAP 550
      STOP                                                              MAP 560
C                                                                       MAP 570
C     LENGTH OF PLOT (PAGES)                                            MAP 580
C                                                                       MAP 590
   20 RANGEX=INT(10.0/DELX+0.5)*DELX/SCALEX                             MAP 600
      IDOWN=1                                                           MAP 610
      XMIN(1)=XMINO                                                     MAP 620
      XMAX(1)=XMIN(1)+RANGEX                                            MAP 630
C                                                                       MAP 640
 30   IF (XMAX(IDOWN).GE.(XMAXO-EPS1)) GO TO 40                         MAP 650
      IDOWN=IDOWN+1                                                     MAP 660
      XMIN(IDOWN)=XMAX(IDOWN-1)                                         MAP 670
      XMAX(IDOWN)=XMIN(IDOWN)+RANGEX                                    MAP 680
      GO TO 30                                                          MAP 690
   40 XMAX(IDOWN)=XMAXO                                                 MAP 700
C                                                                       MAP 710
C     PRPLOT CONTROL PARAMETERS                                         MAP 720
C                                                                       MAP 730
      NSCALE(1)=1                                                       MAP 740
      NSCALE(2)=0                                                       MAP 750
      NSCALE(3)=0                                                       MAP 760
      NSCALE(4)=0                                                       MAP 770
      NSCALE(5)=0                                                       MAP 780
      NNX=1                                                             MAP 790
      NNY=1                                                             MAP 800
C                                                                       MAP 810
C     SEGMENTS OF PLOT BY PAGES (DOWN THEN ACROSS)                      MAP 820
C                                                                       MAP 830
      J=0                                                               MAP 840
   50 J=J+1                                                             MAP 850
      NYD=(YMAX(J)-YMIN(J))/DELY*SCALEY+0.001                           MAP 860
      IF (J.GT.1) WRITE (6,60)                                          MAP 870
   60 FORMAT (1H1,//////)                                               MAP 880
      I=0                                                               MAP 890
   70 I=I+1                                                             MAP 900
C                                                                       MAP 910
C     GRID SPACING AND MAXIMUM DIMENSIONS OF SEGMENT                    MAP 920
C                                                                       MAP 930
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      NXD=(XMAX(I)-XMIN(I))/DELX*SCALEX+0.001                                MAP 940
      LSW=5                                                                 MAP 950
      CALL OMIT  (NSCALE,NXD,NSBX,NYD,NSBY,IMAGE,YMAX(J),YMIN(J),           MAP 960
     1   XMIN(I),XMAX(I),BCD,Y,X,N3,NL,LABEL,LSW,FOR3,ABNOS,NVP,NNX,NNY)MAP 970
      CALL PLOT1 (NSCALE,NXD,NSBX,NYD,NSBY,IMAGE,YMAX(J),YMIN(J),           MAP 980
     1   XMIN(I),XMAX(I),BCD,Y,X,N3,NL,LABEL,LSW,FOR3,ABNOS,NVP,NNX,NNY)MAP 990
      CALL PLOT2 (NSCALE,NXD,NSBX,NYD,NSBY,IMAGE,YMAX(J),YMIN(J),           MAP1000
     1   XMIN(I),XMAX(I),BCD,Y,X,N3,NL,LABEL,LSW,FOR3,ABNOS,NVP,NNX,NNY)MAP1010
C                                                                           MAP1020
C     PLOT SYMBOLS FOR DEPENDENT VARIABLE                                   MAP1030
C                                                                           MAP1040
      DO 120 K=1,NN                                                         MAP1050
C                                                                           MAP1060
      IF (XO(K).LT.XMIN(I).OR.XO(K).GT.XMAX(I).OR.YO(K).LT.YMIN(J).OR.YOMAP1070
     1(K).GT.YMAX(J)) GO TO 120                                             MAP1080
C                                                                           MAP1090
      IC=ABS(CC(K))+0.5                                                     MAP1100
      IC=IC-(IC/10**NDO)*10**NDO                                            MAP1110
C                                                                           MAP1120
      ND=1                                                                  MAP1130
      DO 80 N=1,NDO                                                         MAP1140
      IF (IC.GE.10**(N-1)) ND=N                                             MAP1150
   80 CONTINUE                                                              MAP1160
C                                                                           MAP1170
      DO 90 N=1,ND                                                          MAP1180
      NBK=ND+1-N                                                            MAP1190
      IP10=10**(NBK-1)                                                      MAP1200
      ISYM(NBK)=IC/IP10+1                                                   MAP1210
      IC=IC-(IC/IP10)*IP10                                                  MAP1220
   90 CONTINUE                                                              MAP1230
C                                                                           MAP1240
      IF (CC(K).GE.0.0) GO TO 100                                           MAP1250
      ND=ND+1                                                               MAP1260
      ISYM(ND)=11                                                           MAP1270
C                                                                           MAP1280
C                                                                           MAP1290
C     IF PLOT CHARACTER WILL BE LOST BECAUSE LSW=5, MOVE CHARACTER          MAP1300
C                                                                           MAP1310
  100 TEST=(XMAX(I)-XO(K))*2.0                                              MAP1320
      XCHNG=0.0                                                             MAP1330
           IF(TEST.LE.XSPACE) XCHNG=XSPACE                                  MAP1340
      X(1)=XO(K)-XCHNG                                                      MAP1350
      Y(1)=YO(K)                                                            MAP1360
      DO 110 N=1,ND                                                         MAP1370
      BCD=SYM(ISYM(N))                                                      MAP1380
      N3=1                                                                  MAP1390
      CALL PLOT3 (NSCALE,NXD,NSBX,NYD,NSBY,IMAGE,YMAX(J),YMIN(J),           MAP1400
     1   XMIN(I),XMAX(I),BCD,Y,X,N3,NL,LABEL,LSW,FOR3,ABNOS,NVP,NNX,NNY)MAP1410
      Y(1)=Y(1)-YSPACE                                                      MAP1420
  110 CONTINUE                                                              MAP1430
  120 CONTINUE                                                              MAP1440
C                                                                           MAP1450
C     PLOT LEFT Y-COORDINATE LABEL                                          MAP1460
C                                                                           MAP1470
      IF(.NOT.(I.EQ.1.AND.J.EQ.1)) GO TO 121                                MAP1480
      WRITE(6,150)                                                          MAP1490
      WRITE(6,FOR3) (ABNOS(K),K=1,NVP)                                      MAP1500
      GO TO 122                                                             MAP1510
  121 IF(.NOT.(I.EQ.1.AND.J.EQ.2)) GO TO 122                                MAP1520
      DYJ=(YMAX(J)-YMIN(J))*SCALEY                                          MAP1530
      IF(DYJ.GT.8.0) WRITE (6,150)                                          MAP1540
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      WRITE(6,FOR3) (ABNOS(K),K=1,NVP)                                  MAP1550
  122 CONTINUE                                                          MAP1560
C                                                                       MAP1570
C     PLOT GRAPH                                                        MAP1580
C                                                                       MAP1590
      IF (I.LT.IDOWN) GO TO 130                                         MAP1600
C                                                                       MAP1610
      LSW=-5                                                            MAP1620
      CALL OMIT  (NSCALE,NXD,NSBX,NYD,NSBY,IMAGE,YMAX(J),YMIN(J),       MAP1630
     1   XMIN(I),XMAX(I),BCD,Y,X,N3,NL,LABEL,LSW,FOR3,ABNOS,NVP,NNX,NNY)MAP1640
      DXI=(XMAX(I)-XMIN(I))*SCALEX                                      MAP1650
      IF (DXI.GT.8.0) GO TO 130                                         MAP1660
      NL=0                                                              MAP1670
      CALL PLOT4 (NSCALE,NXD,NSBX,NYD,NSBY,IMAGE,YMAX(J),YMIN(J),       MAP1680
     1   XMIN(I),XMAX(I),BCD,Y,X,N3,NL,LABEL,LSW,FOR3,ABNOS,NVP,NNX,NNY)MAP1690
      GO TO 140                                                         MAP1700
  130 NL=36                                                             MAP1710
      CALL PLOT4 (NSCALE,NXD,NSBX,NYD,NSBY,IMAGE,YMAX(J),YMIN(J),       MAP1720
     1   XMIN(I),XMAX(I),BCD,Y,X,N3,NL,LABEL,LSW,FOR3,ABNOS,NVP,NNX,NNY)MAP1730
      IF(I.LT.IDOWN) GO TO 70                                           MAP1740
C                                                                       MAP1750
  140 IF (J.EQ.JCROSS) GO TO 160                                        MAP1760
C                                                                       MAP1770
C     PLOT RIGHT Y-COORDINATE LABEL                                     MAP1780
C                                                                       MAP1790
      WRITE (6,150)                                                     MAP1800
  150 FORMAT (1H0,54X,'Y COORDINATE')                                   MAP1810
      GO TO 50                                                          MAP1820
C                                                                       MAP1830
  160 DYJ=(YMAX(J)-YMIN(J))*SCALEY                                      MAP1840
      IF (DYJ.GT.8.0) WRITE (6,150)                                     MAP1850
C                                                                       MAP1860
      RETURN                                                            MAP1870
      END                                                               MAP1880-
      SUBROUTINE GRAPH (XMINO,XMAXO,YMINO,YMAXO,NXDO,NSBX,NYDO,NSBY,     GRA  10
     1   COMP,TCOMP,NCOMP,MEAS,TMEAS,NMEAS,JPD)                         GRA  20
C                                                                       GRA  30
      REAL IMAGE(9000)                                                  GRA  40
      REAL COMP(JPD),TCOMP(JPD),MEAS(JPD),TMEAS(JPD),                   GRA  50
     1   FOR3(3),ABNOS(26) ,LABEL(80),FOR2(3)                           GRA  60
      INTEGER NSCALE(5)                                                 GRA  70
      REAL XMAX(10),XMIN(10)                                            GRA  80
C                                                                       GRA  90
      DATA BCDC,BCDM /1HC,1HM/                                          GRA 100
      DATA LABEL /20*1H ,1HT,1HI,1HM,1HE,56*1H /                        GRA 110
      NNX=500                                                           GRA 120
      NNY=500                                                           GRA 130
      NYD=NYDO                                                          GRA 140
C                                                                       GRA 150
C     CENTER Y-COORDINATE LABEL                                         GRA 160
C                                                                       GRA 170
      NSY=(NYDO*NSBY)/2+5                                               GRA 180
      ENCODE(30,901,FOR2) NSY                                           GRA 190
  901 FORMAT(5H(1H0,I2,21HX,11HWATER LEVEL/)    )                     GRA 200
C                                                                       GRA 210
C     SPACE BETWEEN GRID LINES (INCHES)                                 GRA 220
C                                                                       GRA 230
      DELX=NSBX/6.0                                                     GRA 240
      DELY=NSBY/10.0                                                    GRA 250
C                                                                       GRA 260
C     GRAPH SCALES                                                      GRA 270
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C                                                                       GRA 280
      SCALEX=DELX*NXDO/(XMAXO-XMINO)                                    GRA 290
      SCALEY=DELY*NYDO/(YMAXO-YMINO)                                    GRA 300
C                                                                       GRA 310
C     LENGTH OF PLOT (PAGES)                                            GRA 320
C                                                                       GRA 330
      RANGEX=INT(10.0/DELX+0.5)*DELX/SCALEX                             GRA 340
      IDOWN=1                                                           GRA 350
      XMIN(1)=XMINO                                                     GRA 360
      XMAX(1)=XMIN(1)+RANGEX                                            GRA 370
C                                                                       GRA 380
   30 IF(XMAX(IDOWN).GE.XMAXO) GO TO 40                                 GRA 390
      IDOWN=IDOWN+1                                                     GRA 400
      XMIN(IDOWN)=XMAX(IDOWN-1)                                         GRA 410
      XMAX(IDOWN)=XMIN(IDOWN)+RANGEX                                    GRA 420
      GO TO 30                                                          GRA 430
   40 XMAX(IDOWN)=XMAXO                                                 GRA 440
C                                                                       GRA 450
C     PRPLOT CONTROL PARAMETERS                                         GRA 460
C                                                                       GRA 470
      NSCALE(1)=1                                                       GRA 480
      NSCALE(2)=0                                                       GRA 490
      NSCALE(3)=0                                                       GRA 500
      NSCALE(4)=0                                                       GRA 510
      NSCALE(5)=0                                                       GRA 520
C                                                                       GRA 530
C     SEGMENTS OF PLOT BY PAGES                                         GRA 540
C                                                                       GRA 550
      I=0                                                               GRA 560
   70 I=I+1                                                             GRA 570
      NXD=(XMAX(I)-XMIN(I))/DELX*SCALEX+0.001                           GRA 580
      LSW=5                                                             GRA 590
      CALL OMIT  (NSCALE,NYD,NSBY,NXD,NSBX,IMAGE,YMAXO,YMINO,           GRA 600
     1   XMIN(I),XMAX(I),BCD,COMP,TCOMP,N3,NL,LABEL,LSW,FOR3,ABNOS,NVP, GRA 610
     2   NNX,NNY)                                                       GRA 620
      CALL PLOT1 (NSCALE,NXD,NSBX,NYD,NSBY,IMAGE,YMAXO,YMINO,           GRA 630
     1   XMIN(I),XMAX(I),BCD,COMP,TCOMP,N3,NL,LABEL,LSW,FOR3,ABNOS,NVP, GRA 640
     2   NNX,NNY)                                                       GRA 650
      CALL PLOT2 (NSCALE,NXD,NSBX,NYD,NSBY,IMAGE,YMAXO,YMINO,           GRA 660
     1   XMIN(I),XMAX(I),BCD,COMP,TCOMP,N3,NL,LABEL,LSW,FOR3,ABNOS,NVP, GRA 670
     2   NNX,NNY)                                                       GRA 680
C                                                                       GRA 690
C     PLOT MEASURED WATER LEVELS                                        GRA 700
C                                                                       GRA 710
          IF(NMEAS.EQ.0) GO TO 200                                      GRA 720
      BCD=BCDM                                                          GRA 730
      N3=NMEAS                                                          GRA 740
      CALL PLOT3 (NSCALE,NYD,NSBY,NXD,NSBX,IMAGE,YMAXO,YMINO,           GRA 750
     1   XMIN(I),XMAX(I),BCD,MEAS,TMEAS,N3,NL,LABEL,LSW,FOR3,ABNOS,NVP, GRA 760
     2   NNX,NNY)                                                       GRA 770
C     PLOT COMPUTED WATER LEVELS                                        GRA 780
C                                                                       GRA 790
  200 BCD=BCDC                                                          GRA 800
      N3=NCOMP                                                          GRA 810
      CALL PLOT3 (NSCALE,NYD,NSBY,NXD,NSBX,IMAGE,YMAXO,YMINO,           GRA 820
     1   XMIN(I),XMAX(I),BCD,COMP,TCOMP,N3,NL,LABEL,LSW,FOR3,ABNOS,NVP, GRA 830
     2   NNX,NNY)                                                       GRA 840
C                                                                       GRA 850
C     PLOT LEFT Y-COORDINATE LABEL                                      GRA 860
C                                                                       GRA 870
      IF(I.NE.1) GO TO 120                                              GRA 880
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      WRITE(6,FOR2)                                                     GRA 890
      WRITE(6,FOR3) (ABNOS(K),K=1,NVP)                                  GRA 900
  120 CONTINUE                                                          GRA 910
C                                                                       GRA 920
C     PLOT GRAPH                                                        GRA 930
C                                                                       GRA 940
      IF(I.LT.IDOWN) GO TO 130                                          GRA 950
C                                                                       GRA 960
      LSW=-5                                                            GRA 970
      CALL OMIT  (NSCALE,NXD,NSBX,NYD,NSBY,IMAGE,YMAXO,YMINO,           GRA 980
     1   XMIN(I),XMAX(I),BCD,COMP,TCOMP,N3,NL,LABEL,LSW,FOR3,ABNOS,NVP, GRA 990
     2   NNX,NNY)                                                       GRA1000
      DXI=(XMAX(I)-XMIN(I))*SCALEX                                      GRA1010
      IF(DXI.GT.8.0) GO TO 130                                          GRA1020
      NL=0                                                              GRA1030
      CALL PLOT4 (NSCALE,NYD,NSBY,NXD,NSBX,IMAGE,YMAXO,YMINO,           GRA1040
     1   XMIN(I),XMAX(I),BCD,COMP,TCOMP,N3,NL,LABEL,LSW,FOR3,ABNOS,NVP, GRA1050
     2   NNX,NNY)                                                       GRA1060
C                                                                       GRA1070
      GO TO 140                                                         GRA1080
  130 NL=36                                                             GRA1090
      CALL PLOT4 (NSCALE,NYD,NSBY,NXD,NSBX,IMAGE,YMAXO,YMINO,           GRA1100
     1   XMIN(I),XMAX(I),BCD,COMP,TCOMP,N3,NL,LABEL,LSW,FOR3,ABNOS,NVP, GRA1110
     2   NNX,NNY)                                                       GRA1120
      IF(I.LT.IDOWN) GO TO 70                                           GRA1130
  140 CONTINUE                                                          GRA1140
C                                                                       GRA1150
C     PLOT RIGHT Y-COORDINATE LABEL                                     GRA1160
C                                                                       GRA1170
      WRITE(6,FOR2)                                                     GRA1180
      RETURN                                                            GRA1190
      END                                                               GRA1200-
      SUBROUTINE PRPLOT (NSCALE,NHL,NSBH,NVL,NSBV,IMAGE,XMAX,XMIN,YMAX, PRP  10
     1   YMIN,CH,X,Y,N3,NL,LABEL,LSW,FOR3,ABNOS,NVP,NNX,NNY)            PRP  20
      IMPLICIT LOGICAL (K)                                              PRP  30
      DIMENSION NSCALE(5),ABNOS(26),NOS(10),FOR1(3),FOR2(3),FOR3(3)     PRP  40
      REAL X(NNX),Y(NNY)                                                PRP  50
      REAL IMAGE(9000),LABEL(80),NC                                     PRP  60
      DATA VC/1H /,HC/1H-/,NC/1H+/,BL/1H /                              PRP  70
      DATA KPLOT1/.FALSE./,KPLOT2/.FALSE./                              PRP  80
      DATA KABSC,KORD,KBOTGL/3*.FALSE./                                 PRP  90
C                                                                       PRP 100
      ENTRY PLOT1                                                       PRP 110
      KPLOT1=.TRUE.                                                     PRP 120
      KPLOT2=.FALSE.                                                    PRP 130
      NH=IABS(NHL)                                                      PRP 140
      NSH=IABS(NSBH)                                                    PRP 150
      NV=IABS(NVL)                                                      PRP 160
      NSV=IABS(NSBV)                                                    PRP 170
      NSCL=NSCALE(1)                                                    PRP 180
      IF (NH*NSH*NV*NSV.NE.0) GO TO 2                                   PRP 190
      WRITE (6,1)                                                       PRP 200
    1 FORMAT (T5,'SOME PLOT1 ARG. ILLEGALLY 0')                         PRP 210
      KPLOT=.FALSE.                                                     PRP 220
      RETURN                                                            PRP 230
    2 KPLOT=.TRUE.                                                      PRP 240
      IF (NV.LE.25) GO TO 4                                             PRP 250
      WRITE (6,3)                                                       PRP 260
      KPLOT=.FALSE.                                                     PRP 270
    3 FORMAT (T5,'NO. OF VERTICAL LINES >25')                           PRP 280
      RETURN                                                            PRP 290
```

```
    4 CONTINUE                                                          PRP 300
      NVM=NV-1                                                          PRP 310
      NVP=NV+1                                                          PRP 320
      NDH=NH*NSH                                                        PRP 330
      NDHP=NDH+1                                                        PRP 340
      NDV=NV*NSV                                                        PRP 350
      NDVP=NDV+1                                                        PRP 360
      NIMG=(NDHP*NDVP)                                                  PRP 370
      IF (NDV.LE.120) GO TO 6                                           PRP 380
      KPLOT=.FALSE.                                                     PRP 390
      WRITE (6,5)                                                       PRP 400
    5 FORMAT (T5,'WIDTH OF GRAPH >121')                                 PRP 410
      RETURN                                                            PRP 420
    6 CONTINUE                                                          PRP 430
      IF (NSCL.EQ.0) GO TO 7                                            PRP 440
      FSY=10.**NSCALE(2)                                                PRP 450
      FSX=10.**NSCALE(4)                                                PRP 460
      IY=MIN0(IABS(NSCALE(3)),7)+1                                      PRP 470
      IX=MIN0(IABS(NSCALE(5)),9)+1                                      PRP 480
      GO TO 8                                                           PRP 490
    7 FSY=1.                                                            PRP 500
      FSX=1.                                                            PRP 510
      IY=4                                                              PRP 520
      IX=4                                                              PRP 530
C                                                                       PRP 540
  8   IYM1=IY-1                                                         PRP 550
      ENCODE(18,900,FOR1) IYM1                                          PRP 560
900   FORMAT(10H(1X,A1,F9.,I1,7H,121A1))                                PRP 570
C                                                                       PRP 580
      ENCODE (16,901,FOR2)                                              PRP 590
901   FORMAT(16H(1X,A1,9X,121A1))                                       PRP 600
C                                                                       PRP 610
      NA=MIN0(IX,NSV)-1                                                 PRP 620
      NS=NA-MIN0(NA,120-NDV)                                            PRP 630
      NB=11-NS+NA                                                       PRP 640
      I1=NB/10                                                          PRP 650
      I2=NB-I1*10                                                       PRP 660
      IFOR1=I1                                                          PRP 670
      IFOR2=I2                                                          PRP 680
      IFOR3=NA                                                          PRP 690
      IFOR4=NV                                                          PRP 700
      I1=NSV/100                                                        PRP 710
      I3=NSV-I1*100                                                     PRP 720
      I2=I3/10                                                          PRP 730
      I3=I3-I2*10                                                       PRP 740
      IFOR5=I2                                                          PRP 750
      IFOR6=I3                                                          PRP 760
      IFOR7=NA                                                          PRP 770
C                                                                       PRP 780
      IF(IFOR1.NE.0.AND.IFOR5.NE.0)                                     PRP 790
     1   ENCODE(19,902,FOR3) IFOR1,IFOR2,IFOR3,IFOR4,IFOR5,IFOR6,IFOR7  PRP 800
902   FORMAT(6H(1H ,F,2I1,1H.,I1,1H,,I2,1HF,2I1,1H.,I1,1H))             PRP 810
C                                                                       PRP 820
      IF(IFOR1.EQ.0.AND.IFOR5.NE.0)                                     PRP 830
     1   ENCODE(18,903,FOR3) IFOR2,IFOR3,IFOR4,IFOR5,IFOR6,IFOR7        PRP 840
903   FORMAT(6H(1H ,F,I1,1H.,I1,1H,,I2,1HF,2I1,1H.,I1,1H))              PRP 850
C                                                                       PRP 860
      IF(IFOR1.NE.0.AND.IFOR5.EQ.0)                                     PRP 870
     1   ENCODE(18,904,FOR3) IFOR1,IFOR2,IFOR3,IFOR4,IFOR6,IFOR7        PRP 880
904   FORMAT(6H(1H ,F,I2,1H.,I1,1H,,I2,1HF,I1,1H.,I1,1H))               PRP 890
C                                                                       PRP 900
```

```
      IF(IFOR1.EQ.0.AND.IFOR5.EQ.0)                                     PRP 910
     1   ENCODE(17,905,FOR3)                                            PRP 920
 905  FORMAT(6H(1H ,F,I1,1H.,I1,1H.,I2,1HF,I1,1H.,I1,1H))               PRP 930
C                                                                       PRP 940
   11 IF (KPLOT1) RETURN                                                PRP 950
      KPLOT1=.TRUE.                                                     PRP 960
C                                                                       PRP 970
      ENTRY PLOT2                                                       PRP 980
      KPLOT2=.TRUE.                                                     PRP 990
      IF (KPLOT1) GO TO 12                                              PRP1000
      NSCL=0                                                            PRP1010
      NH=5                                                              PRP1020
      NSH=10                                                            PRP1030
      NV=10                                                             PRP1040
      NSV=10                                                            PRP1050
      GO TO 2                                                           PRP1060
   12 CONTINUE                                                          PRP1070
      IF (.NOT.KPLOT) RETURN                                            PRP1080
      YMX=YMAX                                                          PRP1090
      DH=(YMAX-YMIN)/FLOAT(NDH)                                         PRP1100
      DV=   (XMAX-XMIN)/FLOAT(NDV)                                      PRP1110
      DO 13 I=1,NVP                                                     PRP1120
   13 ABNOS(I)=(XMIN+FLOAT((I-1)*NSV)*DV)*FSX                           PRP1130
      DO 14 I=1,NIMG                                                    PRP1140
   14 IMAGE(I)=BL                                                       PRP1150
      DO 18 I=1,NDHP                                                    PRP1160
      I2=I*NDVP                                                         PRP1170
      I1=I2-NDV                                                         PRP1180
      KNHOR=MOD(I-1,NSH).NE.0                                           PRP1190
      IF (KNHOR) GO TO 16                                               PRP1200
      DO 15 J=I1,I2                                                     PRP1210
   15 IMAGE(J)=HC                                                       PRP1220
   16 CONTINUE                                                          PRP1230
      DO 18 J=I1,I2,NSV                                                 PRP1240
      IF (KNHOR) GO TO 17                                               PRP1250
      IMAGE(J)=NC                                                       PRP1260
      GO TO 18                                                          PRP1270
   17 IMAGE(J)=VC                                                       PRP1280
   18 CONTINUE                                                          PRP1290
      XMIN1=XMIN-DV/2.                                                  PRP1300
      YMIN1=YMIN-DH/2.                                                  PRP1310
      RETURN                                                            PRP1320
C                                                                       PRP1330
      ENTRY PLOT3                                                       PRP1340
      IF (KPLOT2) GO TO 21                                              PRP1350
   19 WRITE (6,20)                                                      PRP1360
   20 FORMAT (T5,'PLOT2 MUST BE CALLED')                                PRP1370
   21 CONTINUE                                                          PRP1380
      IF (.NOT.KPLOT) RETURN                                            PRP1390
      IF (N3.GT.0) GO TO 23                                             PRP1400
      KPLOT=.FALSE.                                                     PRP1410
      WRITE (6,22)                                                      PRP1420
   22 FORMAT (T5,'PLOT3, ARG2 ) 0')                                     PRP1430
      RETURN                                                            PRP1440
   23 DO 24 I=1,N3                                                      PRP1450
      IF(DV) 28,29,28                                                   PRP1460
 29   DUM1=0                                                            PRP1470
      GO TO 32                                                          PRP1480
 28   CONTINUE                                                          PRP1490
      DUM1=(X(I)-XMIN1)/DV                                              PRP1500
   32 CONTINUE                                                          PRP1510
```

```
      IF(DH) 30,31,30                                                   PRP1520
31    DUM2=0                                                            PRP1530
      GO TO 33                                                          PRP1540
30    CONTINUE                                                          PRP1550
      DUM2=(Y(I)-YMIN1)/DH                                              PRP1560
   33 CONTINUE                                                          PRP1570
      IF (DUM1.LT.0..OR.DUM2.LT.0.) GO TO 24                            PRP1580
      IF (DUM1.GE.NDVP.OR.DUM2.GE.NDHP) GO TO 24                        PRP1590
      NX=1+INT(DUM1)                                                    PRP1600
      NY=1+INT(DUM2)                                                    PRP1610
      J=(NDHP-NY)*NDVP+NX                                               PRP1620
      IMAGE(J)=CH                                                       PRP1630
   24 CONTINUE                                                          PRP1640
      RETURN                                                            PRP1650
C                                                                       PRP1660
      ENTRY PLOT4                                                       PRP1670
      IF (.NOT.KPLOT) RETURN                                            PRP1680
      IF (.NOT.KPLOT2) GO TO 19                                         PRP1690
      DO 26 I=1,NDHP                                                    PRP1700
      IF (I.EQ.NDHP.AND.KBOTGL) GO TO 26                                PRP1710
      WL=BL                                                             PRP1720
      IF (I.LE.NL) WL=LABEL(I)                                          PRP1730
      I2=I*NDVP                                                         PRP1740
      I1=I2-NDV                                                         PRP1750
      IF (MOD(I-1,NSH).EQ.0.AND..NOT.KORD) GO TO 25                     PRP1760
      WRITE (6,FOR2) WL,(IMAGE(J),J=I1,I2)                             PRP1770
      GO TO 26                                                          PRP1780
   25 CONTINUE                                                          PRP1790
      ORDNO=(YMX-FLOAT(I-1)*DH)*FSY                                     PRP1800
      IF (I.EQ.NDHP) ORDNO=YMIN                                         PRP1810
      WRITE (6,FOR1) WL,ORDNO,(IMAGE(J),J=I1,I2)                        PRP1820
   26 CONTINUE                                                          PRP1830
      IF (KABSC) GO TO 27                                               PRP1840
      WRITE (6,FOR3) (ABNOS(J),J=1,NVP)                                 PRP1850
   27 RETURN                                                            PRP1860
C                                                                       PRP1870
      ENTRY OMIT                                                        PRP1880
      KABSC=MOD(LSW,2).EQ.1                                             PRP1890
      KORD=MOD(LSW,4).GE.2                                              PRP1900
      KBOTGL=LSW.GE.4                                                   PRP1910
      RETURN                                                            PRP1920
      END                                                               PRP1930-
```

ATTACHMENT B

DATA DECK INSTRUCTIONS

Group I: Title and Simulation Options

This group of cards is read by the main program.

CARD	COLUMNS	FORMAT	VARIABLE	DESCRIPTION
1	1-80	20A4	TITLE	Any title the user wishes on one line at the start of the output.
2	1-12	F12.0	DELT	Length of initial time step in days.
	13-18	I6	MAXKNS	Total number of time steps to be simulated.
	19-24	F6.0	CHNG	Multiplying factor for DELT.
	25-30	I6	ITMAX	Maximum number of iterations permitted for solution per time step.
	31-36	F6.0	EPS	Error criteria for closure, in feet.
	37-42	F6.0	RELAX	Relaxation factor (1.7 is normally used).
3	1-6	I6	K0D1	Evapotranspiration option. Enter the maximum number of iterations for evapotranspiration calculations (usually 4 or less). Enter zero for no evapotranspiration.
	37-42	I6	K0D7	Enter 1 to punch generated water levels.
	43-48	I6	K0D8	Enter 1 to allow use of block factors. (see p. 56)

DATA DECK INSTRUCTIONS--Continued

CARD	COLUMNS	FORMAT	VARIABLE	DESCRIPTIONS
3 (Continued)	49-54	I6	K0D9	Enter 1 to allow conversion of storage coefficient value to correspond to change from confined to unconfined conditions. (see p. 56)
	55-60	61	K0D10	Number of time steps between printouts.
4	1-12	E21.0	HYDCON	Vertical hydraulic conductivity of confining layer.
	13-18	I6	NL	Number of leaky elements.
Card Set I	160	10F6.0	THK (I)	Confining-layer thickness at element I. Ten values per card. Use as many cards as necessary to compl e the data set.

Group II: Aquifer parameters for the upper aquifer

This group of cards is read by the first call to subroutine INPUT.

CARD	COLUMNS	FORMAT	VARIABLE	DESCRIPTION
1	1-6	I6	NN	Number of nodes in upper aquifer.
	7-12	I6	NE	Number of elements in upper aquifer.
2	E12.0		FACTXY	Multiplication factor for X and Y coordinates of nodes.

Card Set II

This card set specifies the X and Y coordinates of each node. Three nodes are described on each card using a format of (3(15, 2F10.0)). Use as many cards as necessary to complete the data set.

COLUMNS	FORMAT	VARIABLE	DESCRIPTION
1-5	I5	I	Node number.
6-15	F10.0	X (I)	X coordinate of node (I), in feet.
16-25	F10.0	Y (I)	Y coordinate of node (I), in feet.

Card Set III

This card set specifies the three nodes which bound each element. Three elements are entered per card using a format of (3(4I5, 5X)). Nodes must be specified counterclockwise around the element. Use as many cards as necessary to complete the data set.

1-5	I5	I	Element number.
6-10	I5	IN(I,1)	Node 1 of element (I).
11-15	I5	IN(I,2)	Node 2 of element (I).
16-20	I5	IN(I,3)	Node 3 of element (I).

Card				
3	1-12	E12.0	FACT	Global multiplying factor for transmissivity of the upper aquifer.

Card Set				
IV	1-60	10F6.0	T(I)	Transmissivity, in feet squared per second, of element (I), 10 values per card. Use as many cards as necessary to complete the data set.

NOTE: Card 4 and card sets V and VI are read only if KOD8 has been set to 1 on card 3 of Group I. If KOD8 was not set to 1, omit these cards.

CARD	COLUMNS	FORMAT	VARIABLE	DESCRIPTION
4	1-6	I6	NF	Number of transmissivity blocks. (Parameters are divided into distinct blocks, each with an associated block multiplier, to facilitate parameter adjustment of geohydrologically distinct areas of the model by simply manipulating the block multiplier.)
Card Set V	1-60	10F6.0	ADJUST(I)	Block multiplier for block I. Enter NF values, ten to a card. Use as many cards as necessary to complete the data set.
VI	1-60	10I6	INDEX(I)	Block number to which element I is to be assigned. Enter NE values, 10 to a card. Use as many cards as necessary to complete the data set.

NOTE: Cards 5, 6, 7, 8, and 9 and card sets VII, VIII, IX, X, XI, XII, and XIII are read only if KOD9 has been set to 1 on card 3 of Group I. If KOD9 was not set to 1, omit these cards.

Card				
5	1-12	E12.0	FACS	Global multiplying factor for confined storage coefficient of the upper aquifer.

DATA DECK INSTRUCTIONS--Continued

CARD	COLUMNS	FORMAT	VARIABLE	DESCRIPTION
Card Set VII	1-60	10F6.0	SC(I)	Confined storage coefficient of element I. Enter NE values, 10 to a card. Use as many cards as necessary to complete the data set.

NOTE: Cards 6 and 8 and card sets VIII, IX, XI, and XII are read only if both KOD8 and KOD9 are set to 1 on card 3 of Group I. If both KOD8 and KOD9 are not set to 1, omit these cards.

Card 6	1-6	I6	NF	Number of confined storage coefficient blocks.
Card Set VIII	1-60	10F6.0	ADJUST(I)	Block multiplier for block 1. Enter NF values, 10 to a card. Use as many cards as necessary to complete the data set.
IX	1-60	10I6	INDEX(I)	Block number to which element I is to be assigned. Enter NE values, 10 to a card. Use as many as necessary to complete the data set.
Card 7	1-12	E12.0	FACS	Global multiplying factor for unconfined storage coefficient of the upper aquifer.

DATA DECK INSTRUCTIONS--Continued

CARD	COLUMNS	FORMAT	VARIABLE	DESCRIPTION
Card Set X	1-60	10F6.0	SU(I)	Unconfined storage coefficient of element I. Enter NE, values 10 to a card. Use as many cards as necessary to complete the data set.
Card 8	1-6	I6	NF	Number of unconfined storage coefficient blocks.
Card Set XI	1-60	10F6.0	ADJUST(I)	Block multiplier for block I. Enter NF values, 10 to a card.
XII	1-60	10I6	INDEX(I)	Block number to which element I is to be assigned. Enter NE values, 10 to a card.
Card 9	1-12	E12.0	FACTOP	Multiplying factor for aquifer top values.
Card Set XIII	1-60	10F6.0	TOP(I)	Elevation of the top of the upper aquifer at the approximate center of element (I). Ten values are entered per card.
Card 10	1-12	E12.0	FACS	Global multiplying factor storage coefficient.

DATA DECK INSTRUCTIONS--Continued

CARD	COLUMNS	FORMAT	VARIABLE	DESCRIPTION
Card Set XIV	1-60	10F6.0	S(I)	Storage coefficient value for element I. If KOD9 has been specified, this set of values represents the initial set of storage coefficients to be used. If KOD9 was not specified, this is the only set of storage coeffici- values read for the upper aquifer.

NOTE: Card 11 and card sets XV and XVI are read only if KOD8 has been set to 1 on card 3 of Group I. If KOD8 was not set to 1, omit these cards.

Card 11	1-6	I6	NF	Number of storage coefficient blocks.
Card Set XV	1-60	10F6.0	ADJUST(I)	Block multiplier for block I. Enter NF values, 10 to a card.
XVI	1-60	10I6	INDEX(I)	Block number to which element I is to be assigned. Enter NE values, 10 to a card.

NOTE: Card set XVII is read only if NL, number of leaky elements, was given a non-zero value on card 4, Group I. If NL was left equal to zero on card 4, Group I, omit these cards.

Card Set XVII	1-60	10I6	LEAK(I)	Element number of the I'th leaky element. Enter NL values, 10 to a card.

NOTE: Card 12 and card set XVIII are read only if KOD1 is set to a non-zero value on card 3, Group I. If KOD1 on card 3, Group I, was left equal to zero, omit these cards.

Card 12	1-12	E12.0	RATE	Evapotranspiration rate when water level is at land surface, in feet per second.

DATA DECK INSTRUCTIONS--Continued

CARD	COLUMNS	FORMAT	VARIABLE	DESCRIPTION
12	13-18	F6.0	DEPTH	Depth, in feet, below land surface at which evapotranspiration ceases.
Card Set XVIII	1-60	10F6.0	LAND(I)	Land surface elevation, in feet above mean sea level, at node (I). Enter 10 per card.
XIX	1-60	10F6.0	H2(I)	Initial water level, in feet above mean sea level, at node I. Enter 10 per card.

Group III: Aquifer parameters for the lower aquifer

This group of cards is read by the second call to subroutine INPUT. This group of cards is quite similar to Group II with the exceptions that no evapotranspiration or storage coefficient conversion is possible in the lower aquifer and, consequently, these card sets are not read.

CARD	COLUMNS	FORMAT	VARIABLE	DESCRIPTION
1	1-6	I6	NN	Number of nodes in lower aquifer.
	7-12	I16	NE	Number of elements in lower aquifer.
2	1-12	E12.0	FACTXY	Multiplication factor for X and Y coordinates of nodes.

Card Set II This card set specifies the X and Y coordinates of each node. Three nodes are described on each card using a format of (3(I5, 2F10.0)). Use as many cards as necessary to complete the data set.

1-5	I5	I	Node number.
6-15	F10.0	X(I)	X coordinate of node (I), in feet.
16-25	F01.0	Y(I)	Y coordinate of node (I), in feet.

Card Set III This card set specifies the three nodes which bound each element. Three elements are entered per card using a format of (3(4I5, 5X)). Nodes must be specified counterclockwise around the element. Use as many cards as necessary to complete the data set.

CARD	COLUMNS	FORMAT	VARIABLE	DESCRIPTION
Card Set III				
	1-5	I5	I	Element number.
	6-10	I5	IN(I,1)	Node of element (I).
	11-15	I5	IN(I,2)	Node 2 of element (I).
	16-20	I5	IN(I,3)	Node 3 of element (I).
Card 3	1-12	E12.0	FACT	Global multiplying factor for transmissivity.
Card Set IV	1-60	10F6.0	T(I)	Transmissivity of element (I) 10 values per card. Use as many cards as necessary to complete the data set.

NOTE: Card 4 and card sets V and VI are read only if KOD8 has been set to 1 on card 3, of Group I. If KOD8 was not set to 1, omit these cards.

CARD	COLUMNS	FORMAT	VARIABLE	DESCRIPTION
4	1-6	I6	NF	Number of transmissivity blocks
Card Set V	1-60	10F6.0	ADJUST(I)	Block multiplier for block I. Enter NF values, 10 to a card. Use as many cards as necessary to complete the data set.

DATA DECK INSTRUCTION--Continued

CARD	COLUMNS	FORMAT	VARIABLE	DESCRIPTION
Card Set VI	1-60	10I6	INDEX(I)	Block number to which element I is to be assigned. Enter NE values, 10 to a card. Use as many cards as necessary to Card.
Card 6	1-12	E12.0	FACS	Global multiplying factor for storage coefficient of the lower aquifer.
Card Set VII	1-60	10F6.0	S(I)	Storage coefficient value for element I. Enter NE values, 10 to a card. Use as many cards as necessary to complete the data set.

NOTE: Card 7 and card sets VIII and IX are read only if KOD8 has been set to 1 on card 3 of Group I. If KOD8 was not set to I, omit these cards.

CARD	COLUMNS	FORMAT	VARIABLE	DESCRIPTION
7	1-6	I6	NF	Number of storage coefficient blocks.
Card Set VIII	1-60	10F6.0	ADJUST(I)	Block multiplier for block I. Enter NF values, 10 to a card.
IX	1-60	10I6	INDEX(I)	Block number to which element I is to be assigned Enter NE values, 10 to a card.

NOTE: Card set X is read only if NL, number of leaky elements, was given a non-zero value on card 4, Group I. If NL was left equal to zero on card 4, Group I, omit these cards.

Card Set X	1-60	10I6	LEAK(I)	Element number of the I'th leaky element.

DATA DECK INSTRUCTIONS--Continued

CARD	COLUMNS	FORMAT	VARIABLE	DESCRIPTION
Card Set XI	1-60	10F6.0	H2(I)	Initial water level, in feet above mean sea level, at Node I. Enter 10 values per card.

Group IV: Pumpage and recharge

CARD	COLUMNS	FORMAT	VARIABLE	
1	1-6	I6	NQ	Number of pumpage and/or recharge data sets.

NOTE: Card 2, a set of card 3's and card sets I through IV are repeated for each set of pumpage/recharge data. A total of NQ sets of pumpage/recharge data are read.

Card				
2	1-6	I6	NRA	Number of nodes receiving recharge in the upper aquifer.
	7-12	I6	NRB	Number of nodes receiving recharge in the lower aquifer.
	13-18	I6	NPA	Number of nodes pumping in the upper aquifer.
	19-24	I6	NPB	Number of nodes pumping in the lower aquifer.
	25-30	I6	ITI	Number of time step when these pumpages/recharge begins.
	31-36	I6	IT2	Number of time step when these pumpages/recharge end.
Card Set I	1-60	5(I6,F6.0)	LRA(I), FRA(LRA(I))	LRA(I)- node number of I'th node receiving recharge in the upper aquifer.

CARD	COLUMNS	FORMAT	VARIABLE	DESCRIPTION
Card Set I (continued)				FRA(LAR(I))- recharge rate in cubic feet per second received by node LRA (I). Enter NRA pairs of values for LRA (I) and FRA (LRA(I)), if NRA equaled zero, no cards are entered. Five pairs of LRA (I) and FRA (LRA(I)) values are read per card.
Card Set II	1-60	5(I6,F6.0)	LRB(I), FRB(LRB(I))	LRB(I)- Node number of I'th node receiving recharge in the lower aquifer. FRB(LRB(I))- recharge rate in cubic feet per second received by node LRB (I). Enter NRB pairs of values; if NRB equals zero, no cards are read. Five pairs of values are read per card.
III	1-60	5(I6,F6.0)	LPA(I), FPA(LPA(I))	LPA (I)- Node number of I'th pumping node in the upper aquifer. FPA(LPA(I))- pumpage rate at node LPA (I) of the upper aquifer, in cubic feet per second. Enter NPA pairs of values; if NPA equals zero, no cards are read. Five pairs of values are read per card.
IV	1-60	(I6,F6.0)	LPB(I), FPB(LPB(I))	LPB (I)- Node numbers of the I'th pumping node in the lower aquifer. FPB (LPB(I))- Pumpage rate at node (LPB(I) of the lower aquifer, in cubic feet per second. Enter NPB pairs of values; if NPB equals zero, no cards are read. Five pairs of values are read per card.

DATA DECK INSTRUCTIONS--Continued

CARD	COLUMNS	FORMAT	VARIABLE	DESCRIPTION
3	1-12	F12.0	FFRA	Multiplication factor for upper aquifer recharge for current time step. Recharge is considered as a negative outflow by the model; therefore, the multiplication factor is negative.
	13-24	F12.0	FFPA	Multiplication factor for upper aquifer pumpage for current time step.
	25-36	F12.0	FFRB	Multiplication factor for lower aquifer recharge for current time step. Recharge is considered as a negative outflow from the model; therefore, the multiplication factor is negative.
	37-48	F12.0	FFPB	Multiplication factor for lower aquifer pumpage for current time step.

NOTE: Card 3 is repeated once for each time step in the range indicated by ITI and IT2 on card 2. The multiplication factors may vary for each time step.

Group V: Maps and plots data

NOTE: Following last plot or if no plots are desired, 2 blank cards should be included for cards 1 and 2 to insure normal program termination.

CARD	COLUMNS	FORMAT	VARIABLE	DESCRIPTION
1	1-6	I6	PTYPE	Type of plot. One for water-level map, minus one for drawdown map, three for hydrographs.
	6-12	I6	IDPLT	For maps--time step at which map is to be plotted. For hydrographs--node in upper aquifer for which hydrograph is to be plotted.

DATA DECK INSTRUCTIONS--Continued

CARD	COLUMNS	FORMAT	VARIABLE	DESCRIPTION
1 (continued)	13-18	I6	IDPLTZ	Node in lower aquifer for which hydrograph is to be plotted. Not used for map formats.
2	1-80	20A4	TITLE	Any 80-character title desired for the plot.
NOTE: For plot type 1 or -1, only card 3A is read. For plot type 3, cards 3, cards 3B and 4 are read.				
3A	1-10	F10.0	XMIN	Minimum value of X to be plotted, in feet from the origin.
	11-20	F10.0	XMAX	Maximum value of X to be plotted, in feet from the origin.
	21-30	F10.0	YMIN	Minimum value of Y to be plotted, in feet from the origin.
	31-40	F10.0	YMAX	Maximum value of Y to be plotted, in feet from the origin.
	41-45	I5	NXD	Number of divisions on the X axis.
	46-50	I5	NSBX	Number of characters (vertical bars) per division on the X axis.
	51-55	I5	NYD	Number of divisions on the X axis.
	56-60	I5	NSBY	Number of characters (dashes) per division on the Y axis.
	61-65	I5	ND	Number of characters to be plotted for each value.
	66-75	F10.0	SCALE	Multiplier for drawdown or head values.

DATA DECK INSTRUCTIONS--Continued

CARD	COLUMNS	FORMAT	VARIABLE	DESCRIPTION
3B	1-10	F10.0	TMIN	Time, in months from start of simulation, at which hydrograph is to begin.
	11-20	F10.0	TMAX	Time, in months from start of simulation, at which hydrograph is to end.
	21-30	F10.0	HMIN	Minimum water-level elevation to be plotted, in feet above mean sea level.
	31-40	F10.0	HMAX	Maximum water-level elevation to be plotted, in feet above mean sea level.
	41-45	I5	NTD	Number of divisions on the time axis of the hydrograph. TMAX/12 will produce 1-year divisions.
	46-50	I5	NSBT	Number of characters (dashes) per division on the time axis.
	51-55	I5	NHD	Number of divisions on the vertical axis of the hydrograph. (HMAX-HMIN)/100 will produce 100-foot divisions.
	56-60	I5	NSBH	Number of characters (vertical bars) per division on the vertical axis.
	61-70	F10.0	SCALEM	Multiplier for measured water-level data to be plotted.
	71-80	F10.0	SCALEC	Multiplier for computed water-level data to be plotted.
4	1-5	I5	NMEAS	Number of measured water levels to be plotted.
	6-10	F5.0	SMO	Starting month for measured water levels.

DATA DECK INSTRUCTIONS--Continued

CARD	COLUMNS	FORMAT	VARIABLE	DESCRIPTION
4 (continued)	11-15	F5.0	SDA	Starting day for measured water levels.
	16-20	F5.0	SYR	Starting year for measured water levels.
	21-30	F10.0	DATUM	Land surface elevation at this node.
	31-40	F10.0	WTH3A	Percent of influence on composite water level at this node caused by upper aquifer.
	41-50	F10.0	WTH3B	Percent of influence on composite water level at this node caused by lower aquifer.

NOTE: Card Set 1 can consist of up to 125 cards (500 water-level measurements The format of the measured water levels is that of the U.S. Geological Survey's punched card storage and retrieval system (ABC cards).

CARD	COLUMNS	FORMAT	VARIABLE	DESCRIPTION
Card set 1	20-75	4(3F2.0,	(MOX(I), DAX(I)	MOX(I)- month of the I'th measured water level. DAX(I)- day of the I'th measured water level.
		F7.2,	YRX(I),	YRX(I) - year of the I'th measured water level.
		1X)	WLMX(I),I=1,4)	WLMX(I)- I'th measured water level, in feet below land-surface elevation (DATUM).

ATTACHMENT C

APPLICATION TO A FIELD PROBLEM--THE SAN BERNARDINO VALLEY AQUIFER MODEL

The following pages illustrate the job control language, data input, and results of an application of the model to a field problem in the San Bernardino Valley area, California. The study from which these results were taken was made by Hardt and Hutchinson (written commun., 1978). The example on the following pages illustrates many of the options available in the program.

The San Bernardino Valley lies in a northwest-pointing wedge formed by the San Andreas and San Jacinto faults. The valley is filled with alluvium which contains numerous clay layers in the southwestern part of the valley, adjacent to the San Jacinto fault. These clay layers act as slightly permeable members creating artesian conditions in the southwestern part of the valley. The maximum depth to impermeable bedrock is about 1,200 feet below land surface.

For purposes of the mathematical model, the basin was generalized into a two-aquifer system. The upper layer represents the aquifer from land surface to a depth of about one-third of the total aquifer thickness. The lower layer represents the bottom two-thirds of the water-bearing sediments. The model layers are separated by an extensive clay layer which is as much as 325 ft thick in the confined area and which is assumed to be 1 ft thick in the unconfined area. The mathematics of the model program require a separation between model layers, even in the unconfined areas where none is present. By assuming a minimal thickness of 1 ft, however, the head differential between the layers is minimal and the water table can be represented as a single surface.

The Hardt and Hutchinson investigation consisted of three stages: (1) Calibration of aquifer parameters by matching the historical water levels for a near-steady-state condition; (2) verification of the calibrated parameters by simulating the transient water levels from 1945 to 1975 and comparing these water levels with historical water-level data for this period; and (3) prediction of water levels for the basin for the period 1975-2000.

Attachment D illustrates the Job Control Language (JCL) and data decks for one of the predictive runs made by Hardt and Hutchinson. The JCL illustrated in Attachment D is for a Control Data Corporation Cyber 7600 computer as installed at the Lawrence Berkeley Laboratories. Most of the features described in the Data Deck Instructions are illustrated in these attachments, with the exceptions that the storage coefficient conversion option is not utilized, and measured water levels are not read or plotted.

Attachment E illustrates the program output generated by the data deck illustrated in attachment D.

ATTACHMENT D--Sample Input Data Deck for San Bernardino Field Problem

```
SAN BERNARDINO TRANSIENT-STATE MODEL
       365.0     26     1.0     75     0.1     1.7
     5     0      0      0      0      0       0       1       0       1
       3.5E-07   296
       1     1      1      1      1      1       1       1       1       1
       1     1      1      1      1      1       1       1       1       1
       1     1      1      1      1      1       1       1       1       1
       1     1      1      1      1      1       1       1       1       1
      25    25     25      1      1      1       1       1       1       1
       1    25     50     25     50     25       1       1       1       1
       1   100    100    150    150    150     150     150     100     100
      25    50     25      1      1      1     200     200     200     200
     200   200    225    250    225    150     150      75       1       1
       1   250    250    250    250    250     250     300     300     275
     150    25      1      1      1      1     250     250     250     250
     250   325    300    300    275    275     275     275     275     200
     125    50      1      1      1      1     200     200     200     325
     275   250    275    275    200    150     125     100      50       1
       1   200    200    300    300    250     225     175     175     125
     125    75     75     25     25     25       1       1       1       1
       1     1      1      1    150    150     150     150     275     300
     275   250    175    125     75     75      50      25      25      25
       1     1      1    250    250    225     175     125     125      75
      25     1      1      1      1      1       1     250     200     175
     150   125    100     50     50     50      25      25       1       1
       1     1      1      1      1      1       1       1       1       1
       1     1      1      1      1      1       1       1       1       1
       1     1      1      1      1      1       1       1       1       1
       1     1      1      1      1      1       1       1       1       1
       1     1      1      1      1      1       1       1       1       1
       1     1      1      1      1      1       1       1       1       1
       1     1      1      1      1      1       1       1       1       1
       1     1      1      1      1      1       1       1       1       1
       1     1      1      1      1      1
     178   296
             1.0
       1    1524.    29339.    2     4852.    32946.    3     8904.    42419.    1
       4    9704.    26249.    5    12952.    29447.    6    16452.    32878.    2
       7   14164.    36385.    8    14076.    37582.    9    12492.    44818.    3
      10   16640.    49241.   11    18860.    25032.   12    20292.    33714.    4
      13   20644.    34465.   15    26512.    48654.   14    19276.    41134.    5
      16   24140.    24228.   17    24108.    28137.   18    26920.    30684.    6
      19   27304.    31488.   20    24240.    35067.   21    27088.    42030.    7
      22   29344.    45633.   23    31116.    48345.   24    31292.    23164.    8
      25   31436.    24831.   26    35352.    27033.   27    35688.    27772.    9
      28   33640.    33384.   29    32659.    36731.   30    32135.    39772.   10
      31   32912.    41921.   32    33100.    45653.   33    34772.    46838.   11
      34   39688.    19371.   35    40484.    20898.   36    42016.    23987.   12
      37   42400.    24703.   38    44616.    29399.   39    41440.    34051.   13
      40   37048.    39527.   41    37044.    41917.   42    35848.    44601.   14
      43   37268.    45862.   44    39240.    47791.   45    44468.    36823.   15
      46   46568.    40672.   47    46608.    41680.   48    42292.    44235.   16
      49   49400.    47622.   50    45620.    16692.   51    47996.    19781.   17
      52   48252.    21223.   53    48496.    21939.   54    50312.    26836.   18
      55   50104.    33722.   56    53752.    40648.   57    53700.    41628.   19
      58   57948.    47369.   59    50488.    14394.   60    51512.    16957.   20
      61   53088.    18994.   62    53408.    19729.   63    55548.    24956.   21
      64   55840.    32585.   65    55320.    35694.   66    56096.    17620.   22
      67   56304.    18468.   68    58716.    25024.   69    60300.    28246.   23
      70   57952.    35051.   71    60148.    37570.   72    60068.    38253.   24
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 73    59708.    40921.   74    59600.    41672.   75    66604.    41813.   25
 76    64359.    47144.   77    60152.    10015.   78    57572.    14534.   26
 79    62620.    22268.   80    63044.    26896.   81    63520.    33617.   27
 82    68348.    37948.   83    68340.    38655.   84    66648.    41037.   28
 85    61820.    13084.   86    62916.    14623.   87    63240.    15322.   29
 88    64308.    16925.   89    67100.    20171.   90    67704.    24582.   30
 91    69736.    28788.   92    71008.    32002.   93    78184.    42078.   31
 94    71156.    44605.   95    76236.    47658.   96    66768.     6974.   32
 97    69616.    11562.   98    69904.    12313.   99    68724.    15784.   33
100    72836.    20946.  101    76608.    25454.  102    77244.    29700.   34
103    76984.    35168.  104    78156.    38342.  105    78168.    39001.   35
106    78176.    41250.  107    88944.    41491.  108    88916.    42287.   36
109    83476.    48096.  110    72720.     6934.  111    72956.    13687.   37
112    78820.    20079.  113    80760.    23501.  114    83676.    28555.   38
115    82512.    34389.  116    76484.     8573.  117    76748.     9256.   39
118    78540.    13546.  119    81852.    18206.  120    84432.    21850.   40
121    86512.    26273.  122    90004.    32034.  123    91456.    37273.   41
124    91876.    41817.  125    92508.    48574.  126    83336.     7584.   42
127    84564.    11706.  128    85684.    15748.  129    88468.    19910.   43
130    91216.    24020.  131    95532.    30423.  132    97956.    39346.   44
133    99180.    43155.  134    84248.     7536.  135    85448.    11738.   45
136    86648.    15575.  137    89248.    19536.  138    92084.    23682.   46
139    96380.    30186.  140    98772.    39246.  141    99956.    43126.   47
142   101112.    49293.  143    90008.     9007.  144    94128.    13610.   48
145    97412.    19608.  146   100920.    26386.  147   101132.    31657.   49
148   100512.    37398.  149    91392.     9256.  150    94976.    13136.   50
151    98280.    19195.  152   101780.    26438.  153   102008.    31673.   51
154   101420.    37494.  155   100920.    43203.  156   105224.    43982.   52
157   105720.    46497.  158   105888.    47361.  159   106288.    49602.   53
160    95684.    10188.  161   100532.    15049.  162   105796.    21111.   54
163   102612.    25562.  164   108828.    25269.  165   107256.    30861.   55
166   106636.    31580.  167   111416.    31191.  168   111296.    35409.   56
169   111232.    36526.  170   111164.    43837.  171   112224.    37381.   57
172   112144.    43576.  173   112144.    44320.  174   120388.    44749.   58
175   121528.    45798.  176   123872.    47863.  177   122012.    50615.   59
178   125484.    54054.    0       0.        0.    0       0.        0.   60
  1     1   4    2         2    4   5    2         3    5   6    2        EI 1
  4     8   9    3         5    4  11    5         6    5  11    6        EI 2
  7    11  17    6         8   17  12    6         9    6  12    7        EI 3
 10    12  13    7        11    7  13    8        12    8  13   14        EI 4
 13     8  14    9        14   14  15    9        15    9  15   10        EI 5
 16    11  16   17        17   17  18   12        18   18  19   13        EI 6
 19    12  18   13        20   13  19   20        21   13  20   14        EI 7
 22    20  29   14        23   29  30   14        24   14  21   15        EI 8
 25    21  22   15        26   22  23   15        27   24  25   16        EI 9
 28    16  25   17        29   17  25   18        30   25  26   18        EI10
 31    26  27   18        32   18  27   19        33   19  27   28        EI11
 34    19  28   29        35   19  29   20        36   21  31   22        EI12
 37    22  31   32        38   22  32   23        39   32  33   23        EI13
 40    33  44   23        41   24  34   25        42   34  35   26        EI14
 43    25  34   26        44   27  39   28        45   29  40   30        EI15
 46    30  40   31        47   40  41   31        48   31  41   42        EI16
 49    31  42   32        50   41  43   42        51   43  44   33        EI17
 52    35  36   26        53   36  37   27        54   26  36   27        EI18
 55    37  38   27        56   27  38   39        57   40  47   41        EI19
 58    41  47   48        59   41  48   43        60   43  48   44        EI20
 61    48  49   44        62   34  50   35        63   35  50   36        EI21
 64    36  50   51        65   36  51   52        66   36  52   53        EI22
 67    36  53   37        68   37  53   54        69   37  54   38        EI23
 70    38  54   55        71   39  38   45        72   38  55   45        EI24
 73    45  55   56        74   45  56   46        75   46  56   47        EI25
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76	48	47	49	77	50	59	60	78	50	60	51	EI26
79	51	60	61	80	51	61	52	81	61	62	53	EI27
82	52	61	53	83	53	62	54	84	62	63	54	EI28
85	54	63	64	86	54	64	55	87	55	64	65	EI29
88	55	65	56	89	47	56	57	90	47	57	49	EI30
91	57	58	49	92	59	77	78	93	59	78	60	EI31
94	60	78	66	95	60	66	61	96	61	66	67	EI32
97	61	67	62	98	62	67	63	99	67	68	63	EI33
100	63	68	64	101	64	70	65	102	65	72	56	EI34
103	56	72	73	104	56	73	74	105	56	74	57	EI35
106	57	74	58	107	78	77	85	108	78	85	86	EI36
109	66	78	86	110	86	87	67	111	66	86	67	EI37
112	67	87	88	113	67	88	79	114	67	79	68	EI38
115	68	79	69	116	79	80	69	117	68	69	64	EI39
118	69	80	81	119	64	69	81	120	64	81	70	EI40
121	70	81	71	122	71	83	72	123	72	84	73	EI41
124	73	84	74	125	74	75	58	126	75	76	58	EI42
127	77	96	85	128	85	97	86	129	86	98	87	EI43
130	87	98	88	131	88	89	79	132	79	89	90	EI44
133	79	90	80	134	80	90	81	135	81	90	91	EI45
136	81	91	92	137	81	92	82	138	81	82	71	EI46
139	71	82	83	140	72	83	84	141	74	84	75	EI47
142	85	96	97	143	86	97	98	144	88	98	99	EI48
145	88	99	89	146	89	99	100	147	89	100	90	EI49
148	90	100	101	149	90	101	91	150	91	101	102	EI50
151	91	102	92	152	92	102	103	153	92	103	82	EI51
154	82	103	104	155	82	104	83	156	83	104	105	EI52
157	83	105	84	158	84	105	106	159	84	93	75	EI53
160	84	106	93	161	75	93	94	162	76	75	94	EI54
163	76	94	95	164	94	93	95	165	96	110	97	EI55
166	97	110	116	167	98	116	117	168	97	116	98	EI56
169	98	117	111	170	99	98	111	171	99	111	100	EI57
172	111	112	100	173	100	112	101	174	112	113	101	EI58
175	101	113	114	176	101	114	102	177	102	114	115	EI59
178	102	115	103	179	103	115	104	180	104	115	105	EI60
181	105	107	106	182	106	107	93	183	93	109	95	EI61
184	116	126	117	185	117	118	111	186	111	118	112	EI62
187	118	119	112	188	112	119	120	189	112	120	113	EI63
190	113	120	114	191	114	122	115	192	115	122	123	EI64
193	115	123	107	194	105	115	107	195	93	107	108	EI65
196	93	108	109	197	109	108	125	198	117	126	118	EI66
199	118	126	127	200	118	127	128	201	118	128	119	EI67
202	119	128	120	203	120	128	129	204	120	129	130	EI68
205	120	130	121	206	120	121	114	207	121	130	122	EI69
208	114	121	122	209	122	131	123	210	123	124	107	EI70
211	107	124	108	212	108	124	125	213	126	134	135	EI71
214	126	135	127	215	127	135	128	216	135	136	128	EI72
217	128	136	137	218	128	137	129	219	129	137	130	EI73
220	137	138	130	221	130	138	139	222	130	139	131	EI74
223	130	131	122	224	131	139	132	225	139	140	132	EI75
226	131	132	123	227	123	132	124	228	132	140	141	EI76
229	132	141	133	230	124	132	133	231	124	133	125	EI77
232	125	133	142	233	133	141	142	234	134	143	135	EI78
235	135	143	144	236	135	144	136	237	136	144	137	EI79
238	137	144	145	239	137	145	138	240	138	145	146	EI80
241	138	146	139	242	139	146	147	243	139	147	148	EI81
244	139	148	140	245	140	148	141	246	143	149	144	EI82
247	149	150	144	248	144	150	151	249	144	151	145	EI83
250	145	151	152	251	145	152	146	252	146	152	147	EI84
253	152	153	147	254	147	153	154	255	147	154	148	EI85
256	148	154	141	257	154	155	141	258	141	155	142	EI86

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259  149  160  150
262  151  161  162
265  152  166  153
268  154  169  156
271  162  164  163
274  152  165  166
277  165  168  169
280  156  170  157
283  142  158  159
286  170  172  173
289  171  174  172
292  158  173  177
295  175  176  177
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260  150  160  161
263  151  162  163
266  153  166  154
269  154  156  155
272  163  164  165
275  164  167  165
278  166  165  169
281  156  157  142
284  169  171  172
287  170  173  157
290  172  174  173
293  158  177  159
296  178  177  176
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261  150  161  151
264  151  163  152
267  154  166  169
270  155  156  142
273  152  163  165
276  165  167  168
279  169  170  156
282  142  157  158
285  169  172  170
288  157  173  158
291  173  174  175
294  173  175  177
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EI87
EI88
EI89
EI90
EI91
EI92
EI93
EI94
EI95
EI96
EI97
EI98
EI99
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.0053 .0755 .0102 .0102 .0988 .0988 .0575 .0264 .0264 .0053
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.1274 .0972 .0972 .0937 .0937 .0600 .1286 .2300 .2300 .2300
.2300 .2143 .2143 .2767 .2571 .2571 .2571 .2571 .2571 .2143
.0936 .1295 .0972 .0937 .0198 .0185 .1286 .1542 .1714 .1714
.1714 .1714 .1714 .1714 .1714 .1402 .1404 .0936 .1295 .0972
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.0936 .0936 .1404 .1404 .1295 .1295 .1295 .1295 .0937 .0937
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.1639 .1404 .0936 .0936 .0469 .0200 .0200 .0400 .0400 .0400
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.0120 .0056 .0028 .0021 .0021 .0056 .0056 .0056 .0063 .0056
.0056 .0143 .0020 .0143 .0143 .0143
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1-10 TU
11-20 TU
21-30 TU
31-40 TU
41-50 TU
51-60 TU
61-70 TU
71- 80TU
81-90 TU
91-100TU
101-110TU
111-120TU
121-130TU
131-140TU
141-150TU
151-160TU
161-170TU
171-180TU
181-190TU
191-200TU
201-210TU
211-220TU
221-230TU
231-240TU
241-250TU
251-260TU
261-270TU
271-280TU
281-290TU
291-296TU
```

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17
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1.000 1.000 1.000 1.000 1.000 1.000 1.000
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  13    13    13    12    12    12    11    11    11    11
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  12    11     1     1    13    13     2    12    12    12
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  13    16    16    16     2    12    15    15    15    15
  15    15    15    15    15    15    15    16     2    12
  12    15    15    15    15    15    15    15    15    15
  15    16    16     2     2    12    15    15    15    15
  15    15    15    15    15    15    15    15    15    15
  17    14    16     2    12    12    15    15    15    15
  15    15    15    15    15    17    17    17    14    16
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15    15    15    17    17    17    17    17    17    17
17     2    12    17    15    15    17    17    17    17
17    17    17    17     2    12    12    17    17    17
17    17    17    17    17    17    17    17    17    17
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 3     3    17     3     3    17    17     8     8    17
12    12     8    10    10    10    10    10    10    10
10    10    10    10     8     5     5     5     5     5
 4     4     4     4     4     8     8     8     9     9
 9     9     9     5     8     8     8     8     8     8
 9     9     5     5     9     9     5     5     8     8
 8     6     7     8     8     6     6     6     8     6
 6     7     7     7     7     7
 1.0E-02
10    10    10    10    10    10    10    10    10    10      1-10 S U
10    10    10    10    10    10    10    10    10    10     11-20 S U
10    10    10    10    10    10    10    10    10    10     21-30 S U
10    10    10    10    10    10    10    10    10    10     31-40 S U
10    10    10    10    10    10    10    10    10    10     41-50 S U
10    10    10    10    10    10    10    10    10    10     51-60 S U
10    10    10    10    10    10    10    10    10    10     61-70 S U
10    10    10    10    10    10    10    10    10    10     71-80 S U
10    10    10    10    10    10    10    10    10    10     81-90 S U
10    10    10    10    10    10    10    10    10    10    91-100S U
10    10    10    10    10    10    10    10    10    10   101-110S U
10    10    10    10    10    10    10    10    10    10   111-120S U
10    10    10    10    10    10    10    10    10    10   121-130S U
10    10    10    10    10    10    10    10    10    10   131-140S U
10    10    10    10    10    10    10    10    10    10   141-150S U
10    10    10    10    10    10    10    10    10    10   151-160S U
10    10    10    10    10    10    10    10    10    10   161-170S U
10    10    10    10    10    10    10    10    10    10   171-180S U
10    10    10    10    10    10    10    10    10    10   181-190S U
10    10    10    10    10    10    10    10    10    10   191-200S U
10    10    10    10    10    10    10    10    10    10   201-210S U
10    10    10    10    10    10    10    10    10    10   211-220S U
10    10    10    10    10    10    10    10    10    10   221-230S U
10    10    10    10    10    10    10    10    10    10   231-240S U
10    10    10    10    10    10    10    10    10    10   241-250S U
10    10    10    10    10    10    10    10    10    10   251-260S U
10    10    10    10    10    10    10    10    10    10   261-270S U
10    10    10    10    10    10    10    10    10    10   271-280S U
10    10    10    10    10    10    10    10    10    10   281-290S U
10    10    10    10    10    10                           291-296S U
 6
1.5   1.0    .8    .5    .5 .0001
 1     1     1     1     2     2     2     2     1     1      1-10 BFL
 1     1     1     1     1     5     2     2     2     2     11-20 BFU
 2     2     2     2     2     2     5     5     5     5
 2     2     2     2     2     2     2     2     2     2     31-40 BFL
 5     5     5     3     3     3     3     3     2     3     41-50 BFL
 2     5     5     5     5     5     3     3     3     2     51-60 BFL
 2     5     5     5     5     5     5     5     5     5     61-70 BFL
 5     5     5     3     3     3     5     5     6     6     71-80 BFU
 6     6     6     6     6     5     5     5     3     3     81-90 BFL
 3     6     6     6     6     6     6     6     6     6    91-100BFL
 5     5     4     4     4     3     6     6     6     6   101-110BFL
 6     6     6     6     6     6     6     6     6     5   111-120BFL
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    5      4      4      4      3      3      6      6      6      6    121-130BFL
    6      6      6      6      5      5      5      5      4      4    131-140BFL
    4      6      6      6      6      6      6      6      6      5    141-150BFL
    5      5      5      4      4      4      4      3      3      3    151-160BFL
    3      3      2      2      5      5      5      5      5      6    161-170BFL
    6      5      5      5      5      5      5      5      4      3    171-180BFL
    3      3      2      5      5      5      5      5      5      5    181-190BFL
    3      3      3      3      2      2      2      5      5      5    191-200BFL
    2      2      3      3      3      3      3      3      3      2    201-210BFL
    2      2      2      2      2      2      2      2      2      2    211-220BFL
    2      2      3      2      2      2      2      2      2      2    221-230BFL
    2      1      1      2      2      2      2      2      2      2    231-240BFU
    2      2      2      2      2      2      2      2      2      2    241-250BFL
    2      2      2      2      2      2      2      1      1      1    251-260BFU
    1      1      1      1      1      1      1      1      1      1    261-270BFU
    1      1      1      1      1      1      1      1      1      1    271-280BFL
    1      1      1      1      1      1      1      1      1      1    281-290BFL
    1      1      1      1      1      1                              291-296BFL
    1      2      3      4      5      6      7      8      9     10       CARD 14
   11     12     13     14     15     16     17     18     19     20       CARD 14
   21     22     23     24     25     26     27     28     29     30       CARD 14
   31     32     33     34     35     36     37     38     39     40       CARD 14
   41     42     43     44     45     46     47     48     49     50       CARD 14
   51     52     53     54     55     56     57     58     59     60       CARD 14
   61     62     63     64     65     66     67     68     69     70       CARD 14
   71     72     73     74     75     76     77     78     79     80       CARD 14
   81     82     83     84     85     86     87     88     89     90       CARD 14
   91     92     93     94     95     96     97     98     99    100       CARD 14
  101    102    103    104    105    106    107    108    109    110       CARD 14
  111    112    113    114    115    116    117    118    119    120       CARD 14
  121    122    123    124    125    126    127    128    129    130       CARD 14
  131    132    133    134    135    136    137    138    139    140       CARD 14
  141    142    143    144    145    146    147    148    149    150       CARD 14
  151    152    153    154    155    156    157    158    159    160       CARD 14
  161    162    163    164    165    166    167    168    169    170       CARD 14
  171    172    173    174    175    176    177    178    179    180       CARD 14
  181    182    183    184    185    186    187    188    189    190       CARD 14
  191    192    193    194    195    196    197    198    199    200       CARD 14
  201    202    203    204    205    206    207    208    209    210       CARD 14
  211    212    213    214    215    216    217    218    219    220       CARD 14
  221    222    223    224    225    226    227    228    229    230       CARD 14
  231    232    233    234    235    236    237    238    239    240       CARD 14
  241    242    243    244    245    246    247    248    249    250       CARD 14
  251    252    253    254    255    256    257    258    259    260       CARD 14
  261    262    263    264    265    266    267    268    269    270       CARD 14
  271    272    273    274    275    276    277    278    279    280       CARD 14
  281    282    283    284    285    286    287    288    289    290       CARD 14
  291    292    293    294    295    296                                  CARD 14
    1.00E-07  10.
 2065   1980   1970   1820   1735   1670   1790   1790   1880   2400    LSD  1- 10
 1570   1625   1635   1740   2080   1475   1460   1465   1470   1570    LSD 11- 20
 1615   1680   1960   1319   1325   1300   1305   1395   1455   1495    LSD 21- 30
 1490   1580   1720   1240   1170   1190   1190   1180   1250   1415    LSD 31- 40
 1420   1450   1560   1760   1220   1280   1290   1360   1470   1110    LSD 41- 50
 1095   1105   1105   1100   1185   1260   1275   1520   1055   1055    LSD 51- 60
 1040   1040   1050   1125   1170   1005   1000   1025   1040   1130    LSD 61- 70
 1165   1175   1225   1240   1260   1560    960    975   1032   1080    LSD 71- 80
 1090   1148   1160   1250    985   1003   1007   1023   1050   1080    LSD 81- 90
 1110   1140   1310   1390   1480   1030   1060   1065   1055   1110    LSD 91-100
 1165   1175   1195   1230   1240   1290   1375   1380   1700   1300    LSD101-110
 1100   1165   1205   1275   1240   1245   1370   1160   1190   1250    LSD111-120
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1310  1385  1440  1470  1750  1460  1235  1250  1285  1370        LSD121-130
1475  1545  1650  1460  1250  1280  1305  1385  1490  1565        LSD131-140
1660  2240  1500  1525  1540  1570  1590  1610  1450  1600        LSD141-150
1580  1600  1610  1640  1670  1760  1870  2045  2100  1475        LSD151-160
1780  1730  1635  1920  1720  1700  1920  1900  1920  2090        LSD161-170
1980  2125  2150  2640  2550  2610  2690  2925                    LSD171-178
1950  1910  1810  1600  1500  1420  1500  1650  1750  1700
1400  1400  1475  1575  1550  1330  1330  1300  1275  1375
1450  1475  1500  1210  1210  1150  1025  1150  1225  1325
1330  1380  1340  1050  1050  1050  1015  1015  1035  1250
1255  1300  1285  1285  1040  1060  1085  1200  1205  1000
1000  1000   990   995   995  1020  1025  1180   970   980
 980   980   990   995  1000   970   970   970   970   995
 995  1000  1025  1030  1025  1125   930   950   965   970
 985  1010  1015  1020   950   955   955   960   965   970
 975   980  1050  1060  1175   960   975   975   975  1015
1025  1020  1025  1040  1040  1045  1220  1225  1260   980
 995  1070  1085  1120  1070  1000  1005  1035  1080  1115
1140  1170  1225  1275  1300  1050  1070  1095  1130  1140
1210  1350  1450  1060  1100  1150  1180  1190  1260  1390
1460  1575  1200  1210  1225  1290  1320  1400  1300  1325
1425  1350  1410  1450  1500  1620  1710  1750  1850  1475
1520  1560  1480  1590  1580  1520  1650  1670  1830  2010
1910  2025  2030  2320  2360  2440  2420  2600
 178   296
       1.0
   1    1524.    29339.    2     4852.    32946.    3     8904.    42419.    1
   4    9704.    26249.    5    12952.    29447.    6    16452.    32878.    2
   7   14164.    36385.    8    14076.    37582.    9    12492.    44818.    3
  10   16640.    49241.   11    18860.    25032.   12    20292.    33714.    4
  13   20644.    34465.   15    26512.    48654.   14    19276.    41134.    5
  16   24140.    24228.   17    24108.    28137.   18    26920.    30684.    6
  19   27304.    31488.   20    24240.    35067.   21    27088.    42030.    7
  22   29344.    45633.   23    31116.    48345.   24    31292.    23164.    8
  25   31436.    24831.   26    35352.    27033.   27    35688.    27772.    9
  28   33640.    33384.   29    32659.    36731.   30    32135.    39772.   10
  31   32912.    41921.   32    33100.    45653.   33    34772.    46838.   11
  34   39688.    19371.   35    40484.    20898.   36    42016.    23987.   12
  37   42400.    24703.   38    44616.    29399.   39    41440.    34051.   13
  40   37048.    39527.   41    37044.    41917.   42    35848.    44601.   14
  43   37268.    45862.   44    39240.    47791.   45    44468.    36823.   15
  46   46568.    40672.   47    46608.    41680.   48    42292.    44235.   16
  49   49400.    47622.   50    45620.    16692.   51    47996.    19781.   17
  52   48252.    21223.   53    48496.    21939.   54    50312.    26836.   18
  55   50104.    33722.   56    53752.    40648.   57    53700.    41628.   19
  58   57948.    47369.   59    50488.    14394.   60    51512.    16957.   20
  61   53088.    18994.   62    53408.    19729.   63    55548.    24956.   21
  64   55840.    32585.   65    55320.    35694.   66    56096.    17620.   22
  67   56304.    18468.   68    58716.    25024.   69    60300.    28246.   23
  70   57952.    35051.   71    60148.    37570.   72    60068.    38253.   24
  73   59708.    40921.   74    59600.    41672.   75    66604.    41813.   25
  76   64359.    47144.   77    60152.    10015.   78    57572.    14534.   26
  79   62620.    22268.   80    63044.    26896.   81    63520.    33617.   27
  82   68348.    37948.   83    68340.    38655.   84    66648.    41037.   28
  85   61820.    13084.   86    62916.    14623.   87    63240.    15322.   29
  88   64308.    16925.   89    67100.    20171.   90    67704.    24582.   30
  91   69736.    28788.   92    71008.    32002.   93    78184.    42078.   31
  94   71156.    44605.   95    76236.    47658.   96    66768.     6974.   32
  97   69616.    11562.   98    69904.    12313.   99    68724.    15784.   33
 100   72836.    20946.  101    76608.    25454.  102    77244.    29700.   34
 103   76984.    35168.  104    78156.    38342.  105    78168.    39001.   35
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106     78176.     41250.  107     88944.     41491.  108     88916.     42287.    36
109     83476.     48096.  110     72720.      6934.  111     72956.     13687.    37
112     78820.     20079.  113     80760.     23501.  114     83676.     28555.    38
115     82512.     34389.  116     76484.      8573.  117     76748.      9256.    39
118     78540.     13546.  119     81852.     18206.  120     84432.     21850.    40
121     86512.     26273.  122     90004.     32034.  123     91456.     37273.    41
124     91876.     41817.  125     92508.     48574.  126     83336.      7584.    42
127     84564.     11706.  128     85684.     15748.  129     88468.     19910.    43
130     91216.     24020.  131     95532.     30423.  132     97956.     39346.    44
133     99180.     43155.  134     84248.      7536.  135     85448.     11738.    45
136     86648.     15575.  137     89248.     19536.  138     92084.     23682.    46
139     96380.     30186.  140     98772.     39246.  141     99956.     43126.    47
142    101112.     49293.  143     90008.      9007.  144     94128.     13610.    48
145     97412.     19608.  146    100920.     26386.  147    101132.     31657.    49
148    100512.     37398.  149     91392.      9256.  150     94976.     13136.    50
151     98280.     19195.  152    101780.     26438.  153    102008.     31673.    51
154    101420.     37494.  155    100920.     43203.  156    105224.     43982.    52
157    105720.     46497.  158    105888.     47361.  159    106288.     49602.    53
160     95684.     10188.  161    100532.     15049.  162    105796.     21111.    54
163    102612.     25562.  164    108828.     25269.  165    107256.     30861.    55
166    106636.     31580.  167    111416.     31191.  168    111296.     35409.    56
169    111232.     36526.  170    111164.     43837.  171    112224.     37381.    57
172    112144.     43576.  173    112144.     44320.  174    120388.     44749.    58
175    121528.     45798.  176    123872.     47863.  177    122012.     50615.    59
178    125484.     54054.    0         0.          0.    0         0.         0.    60
  1     1   4     2          2   4   5     2          3   5   6     2        EI 1
  4     8   9     3          5   4  11     5          6   5  11     6        EI 2
  7    11  17     6          8  17  12     6          9   6  12     7        EI 3
 10    12  13     7         11   7  13     8         12   8  13    14        EI 4
 13     8  14     9         14  14  15     9         15   9  15    10        EI 5
 16    11  16    17         17  17  18    12         18  18  19    13        EI 6
 19    12  18    13         20  13  19    20         21  13  20    14        EI 7
 22    20  29    14         23  29  30    14         24  14  21    15        EI 8
 25    21  22    15         26  22  23    15         27  24  25    16        EI 9
 28    16  25    17         29  17  25    18         30  25  26    18        EI10
 31    26  27    18         32  18  27    19         33  19  27    28        EI11
 34    19  28    29         35  19  29    20         36  21  31    22        EI12
 37    22  31    32         38  22  32    23         39  32  33    23        EI13
 40    33  44    23         41  24  34    25         42  34  35    26        EI14
 43    25  34    26         44  27  39    28         45  29  40    30        EI15
 46    30  40    31         47  40  41    31         48  31  41    42        EI16
 49    31  42    32         50  41  43    42         51  43  44    33        EI17
 52    35  36    26         53  36  37    27         54  26  36    27        EI18
 55    37  38    27         56  27  38    39         57  40  47    41        EI19
 58    41  47    48         59  41  48    43         60  43  48    44        EI20
 61    48  49    44         62  34  50    35         63  35  50    36        EI21
 64    36  50    51         65  36  51    52         66  36  52    53        EI22
 67    36  53    37         68  37  53    54         69  37  54    38        EI23
 70    38  54    55         71  39  38    45         72  38  55    45        EI24
 73    45  55    56         74  45  56    46         75  46  56    47        EI25
 76    48  47    49         77  50  59    60         78  50  60    51        EI26
 79    51  60    61         80  51  61    52         81  61  62    53        EI27
 82    52  61    53         83  53  62    54         84  62  63    54        EI28
 85    54  63    64         86  54  64    55         87  55  64    65        EI29
 88    55  65    56         89  47  56    57         90  47  57    49        EI30
 91    57  58    49         92  59  77    78         93  59  78    60        EI31
 94    60  78    66         95  60  66    61         96  61  66    67        EI32
 97    61  67    62         98  62  67    63         99  67  68    63        EI33
100    63  68    64        101  64  70    65        102  65  72    56        EI34
103    56  72    73        104  56  73    74        105  56  74    57        EI35
106    57  74    58        107  78  77    85        108  78  85    86        EI36
```

109	66	78	86	110	86	87	67	111	66	86	67	EI37
112	67	87	88	113	67	88	79	114	67	79	68	EI38
115	68	79	69	116	79	80	69	117	68	69	64	EI39
118	69	80	81	119	64	69	81	120	64	81	70	EI40
121	70	81	71	122	71	83	72	123	72	84	73	EI41
124	73	84	74	125	74	75	58	126	75	76	58	EI42
127	77	96	85	128	85	97	86	129	86	98	87	EI43
130	87	98	88	131	88	89	79	132	79	89	90	EI44
133	79	90	80	134	80	90	81	135	81	90	91	EI45
136	81	91	92	137	81	92	82	138	81	82	71	EI46
139	71	82	83	140	72	83	84	141	74	84	75	EI47
142	85	96	97	143	86	97	98	144	88	98	99	EI48
145	88	99	89	146	89	99	100	147	89	100	90	EI49
148	90	100	101	149	90	101	91	150	91	101	102	EI50
151	91	102	92	152	92	102	103	153	92	103	82	EI51
154	82	103	104	155	82	104	83	156	83	104	105	EI52
157	83	105	84	158	84	105	106	159	84	93	75	EI53
160	84	106	93	161	75	93	94	162	76	75	94	EI54
163	76	94	95	164	94	93	95	165	96	110	97	EI55
166	97	110	116	167	98	116	117	168	97	116	98	EI56
169	98	117	111	170	99	98	111	171	99	111	100	EI57
172	111	112	100	173	100	112	101	174	112	113	101	EI58
175	101	113	114	176	101	114	102	177	102	114	115	EI59
178	102	115	103	179	103	115	104	180	104	115	105	EI60
181	105	107	106	182	106	107	93	183	93	109	95	EI61
184	116	126	117	185	117	118	111	186	111	118	112	EI62
187	118	119	112	188	112	119	120	189	112	120	113	EI63
190	113	120	114	191	114	122	115	192	115	122	123	EI64
193	115	123	107	194	105	115	107	195	93	107	108	EI65
196	93	108	109	197	109	108	125	198	117	126	118	EI66
199	118	126	127	200	118	127	128	201	118	128	119	EI67
202	119	128	120	203	120	128	129	204	120	129	130	EI68
205	120	130	121	206	120	121	114	207	121	130	122	EI69
208	114	121	122	209	122	131	123	210	123	124	107	EI70
211	107	124	108	212	108	124	125	213	126	134	135	EI71
214	126	135	127	215	127	135	128	216	135	136	128	EI72
217	128	136	137	218	128	137	129	219	129	137	130	EI73
220	137	138	130	221	130	138	139	222	130	139	131	EI74
223	130	131	122	224	131	139	132	225	139	140	132	EI75
226	131	132	123	227	123	132	124	228	132	140	141	EI76
229	132	141	133	230	124	132	133	231	124	133	125	EI77
232	125	133	142	233	133	141	142	234	134	143	135	EI78
235	135	143	144	236	135	144	136	237	136	144	137	EI79
238	137	144	145	239	137	145	138	240	138	145	146	EI80
241	138	146	139	242	139	146	147	243	139	147	148	EI81
244	139	148	140	245	140	148	141	246	143	149	144	EI82
247	149	150	144	248	144	150	151	249	144	151	145	EI83
250	145	151	152	251	145	152	146	252	146	152	147	EI84
253	152	153	147	254	147	153	154	255	147	154	148	EI85
256	148	154	141	257	154	155	141	258	141	155	142	EI86
259	149	160	150	260	150	160	161	261	150	161	151	EI87
262	151	161	162	263	151	162	163	264	151	163	152	EI88
265	152	166	153	266	153	166	154	267	154	166	169	EI89
268	154	169	156	269	154	156	155	270	155	156	142	EI90
271	162	164	163	272	163	164	165	273	152	163	165	EI91
274	152	165	166	275	164	167	165	276	165	167	168	EI92
277	165	168	169	278	166	165	169	279	169	170	156	EI93
280	156	170	157	281	156	157	142	282	142	157	158	EI94
283	142	158	159	284	169	171	172	285	169	172	170	EI95
286	170	172	173	287	170	173	157	288	157	173	158	EI96
289	171	174	172	290	172	174	173	291	173	174	175	EI97

```
  292  158  173  177          293  158  177  159          294  173  175  177
  295  175  176  177          296  178  177  176
         1.0
.0222 .0222 .0222 .0149 .0333 .0444 .0444 .1110 .0222 .0003
.0003 .0345 .0149 .0068 .0027 .0333 .1110 .0003 .0003 .0689
.0689 .0689 .0230 .0068 .0068 .0055 .0666 .0666 .1110 .0555
.0003 .0003 .0689 .0689 .0689 .0137 .0137 .0055 .0055 .0055
.0222 .0222 .0222 .0580 .0230 .0509 .0575 .0273 .0273 .0273
.0055 .0222 .0052 .0052 .0919 .0919 .0575 .0273 .0273 .0055
.0055 .0414 .0414 .0414 .0414 .0500 .0500 .2767 .2767 .2767
.0690 .0901 .1442 .1802 .0077 .0273 .0414 .0414 .0750 .0750
.0750 .0750 .5124 .5124 .5124 .3075 .1538 .1442 .0077 .0600
.0600 .0331 .0331 .0750 .0750 .1000 .1000 .4400 .4400 .4100
.1281 .1442 .1442 .0077 .0077 .0600 .0331 .0750 .0750 .1000
.1000 .4400 .4400 .4400 .4100 .4100 .4100 .4100 .4100 .2300
.0935 .0284 .1442 .0077 .0205 .0273 .0331 .0750 .0750 .4100
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.0077 .0331 .0750 .3587 .4100 .4100 .4100 .4100 .4100 .2103
.1869 .1402 .1367 .1168 .0284 .0284 .1442 .1442 .0077 .0077
.0341 .0205 .0205 .0205 .0250 .0250 .0500 .0500 .0768 .2400
.3075 .2562 .3070 .1869 .2300 .2300 .1869 .1168 .0935 .0935
.0935 .0077 .0200 .0350 .0768 .2050 .0818 .1168 .1402 .1402
.1636 .1402 .0935 .0935 .0077 .0200 .0200 .0400 .0400 .0400
.0700 .0935 .0935 .0935 .0935 .0935 .0935 .0935 .0700 .0700
.0700 .0200 .0055 .0055 .0055 .0055 .0062 .0062 .0062 .0062
.0062 .0062 .0700 .0062 .0062 .0701 .0700 .0289 .0289 .0701
.0200 .0200 .0200 .0230 .0230 .0522 .0697 .0697 .0870 .0870
.0870 .0870 .1044 .1044 .0283 .0010 .0010 .0006 .0006 .0006
.0007 .0041 .0041 .0077 .0077 .0283 .0289 .0289 .1080 .0126
.0090 .0090 .0090 .0012 .0113 .0113 .0225 .0270 .0270 .0180
.0090 .0090 .0015 .0015 .0090 .0090 .0008 .0008 .0180 .0180
.0180 .0050 .0019 .0009 .0009 .0008 .0008 .0008 .0068 .0050
.0050 .0120 .0017 .0120 .0120 .0120
  17
1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000
1.000 1.000 1.000 1.000 1.000 1.000 1.000
  11   11   11   13   11   11   11   11   11    1
   1   13   13   12   12   11   11    1    1   13
  13   13   13   12   12   12   11   11   11   11
   1    1   13   13   13   12   12   12   12   12
  11   11   11   13   13    2    2   12   12   12
  12   11    1    1   13   13    2   12   12   12
  12   11   11   15   15   15   15   15   15   15
  13   16   16   16    2   12   15   15   15   15
  15   15   15   15   15   15   15   16    2   12
  12   15   15   15   15   15   15   15   15   15
  15   16   16    2    2   12   15   15   15   15
  15   15   15   15   15   15   15   15   15   15
  17   14   16    2   12   12   15   15   15   15
  15   15   15   15   15   17   17   17   14   16
   2   15   15   15   15   15   15   15   15   17
  17   17   17   17   14   14   16   16    2    2
  12   12   12   12   15   15   15   15   15   15
  15   15   15   17   17   17   17   17   17   17
  17    2   12   17   15   15   17   17   17   17
  17   17   17   17    2   12   12   17   17   17
  17   17   17   17   17   17   17   17   17   17
  17   12    3    3    3    3    3    3    3    3
   3    3   17    3    3   17   17    8    8   17
  12   12    8   10   10   10   10   10   10   10
  10   10   10   10    8    5    5    5    5    5
```

```
EI98
EI99

  1- 10TL
 11- 20TL
 21- 30TL
 31- 40TL
 41- 50TL
 51- 60TL
 61- 70TL
 71- 80TL
 81- 90TL
 91-100TL
101-110TL
111-120TL
121-130TL
131-140TL
141-150TL
151-160TL
161-170TL
171-180TL
181-190TL
190-200TL
201-210TL
211-220TL
221-230TL
231-240TL
241-250TL
251-260TL
261-270TL
271-280TL
281-290TL
291-296TL
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 4     4     4     4     4     8     8     8     9     9
 9     9     9     5     8     8     8     8     8     8
 9     9     5     5     9     9     5     5     8     8
 8     6     7     8     8     6     6     6     8     6
 6     7     7     7     7     7
 1.0E-04
10    10    10    10    10    10    10    10    10    10      1-10 S L
10    10    10    10    10    10    10    10    10    10     11-20 S L
10    10    10    10    10    10    10    10    10    10     21-30 S L
10    10    10    10    10    10    10    10    10    10     31-40 S L
10    10    10    10    10    10    10    10    10    10     41-50 S L
10    10    10    10    10    10    10    10    10    10     51-60 S L
10    10    10    10    10    10    10    10    10    10     61-70 S L
10    10    10    10    10    10    10    10    10    10     71-80 S L
10    10    10    10    10    10    10    10    10    10     81-90 S L
10    10    10    10    10    10    10    10    10    10    91-100S L
10    10    10    10    10    10    10    10    10    10   101-110S L
10    10    10    10    10    10    10    10    10    10   111-120S L
10    10    10    10    10    10    10    10    10    10   121-130S L
10    10    10    10    10    10    10    10    10    10   131-140S L
10    10    10    10    10    10    10    10    10    10   141-150S L
10    10    10    10    10    10    10    10    10    10   151-160S L
10    10    10    10    10    10    10    10    10    10   161-170S L
10    10    10    10    10    10    10    10    10    10   171-180S L
10    10    10    10    10    10    10    10    10    10   181-190S L
10    10    10    10    10    10    10    10    10    10   191-200S L
10    10    10    10    10    10    10    10    10    10   201-210S L
10    10    10    10    10    10    10    10    10    10   211-220S L
10    10    10    10    10    10    10    10    10    10   221-230S L
10    10    10    10    10    10    10    10    10    10   231-240S L
10    10    10    10    10    10    10    10    10    10   241-250S L
10    10    10    10    10    10    10    10    10    10   251-260S L
10    10    10    10    10    10    10    10    10    10   261-270S L
10    10    10    10    10    10    10    10    10    10   271-280S L
10    10    10    10    10    10    10    10    10    10   281-290S L
10    10    10    10    10    10                           291-296S L
 6
100    10     1     1   .01   .001
 1     1     1     1     2     2     2     2     1     1      1-10 BFL
 1     1     1     1     1     5     2     2     2     2     11-20 BFL
 2     2     2     2     2     2     5     5     5     5     21-30 BFL
 3     3     3     3     2     2     2     2     2     2     31-40 BFL
 5     5     5     3     3     3     3     3     2     3     41-50 BFL
 2     5     5     5     5     5     3     3     3     2     51-60 BFL
 2     5     5     5     5     5     5     5     5     5     61-70 BFL
 5     5     5     3     3     3     5     5     6     6     71-80 BFL
 6     6     6     6     6     5     5     5     3     3     81-90 BFL
 3     6     6     6     6     6     6     6     6     6    91-100BFL
 5     5     4     4     4     3     6     6     6     6   101-110BFL
 6     6     6     6     6     6     6     6     6     5   111-120BFL
 5     4     4     4     3     3     6     6     6     6   121-130BFL
 6     6     6     6     5     5     5     5     4     4   131-140BFL
 4     6     6     6     6     6     6     6     6     5   141-150BFL
 5     5     5     4     4     4     4     3     3     3   151-160BFL
 3     3     2     2     5     5     5     5     5     6   161-170BFL
 6     5     5     5     5     5     4     4     4     3   171-180BFL
 3     3     2     5     5     5     5     5     5     5   181-190BFL
 3     3     3     3     2     2     2     5     5     5   191-200BFL
 2     2     3     3     3     3     3     3     3     2   201-210BFL
 2     2     2     2     2     2     2     2     2     2   211-220BFL
 2     2     3     2     2     2     2     2     2     2   221-230BFL
```

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  2     1     1     2     2     2     2     2     2     2     231-240BFL
  2     2     2     2     2     2     2     2     2     2     241-250BFL
  2     2     2     2     2     2     2     1     1     1     251-260BFL
  1     1     1     1     1     1     1     1     1     1     261-270BFL
  1     1     1     1     1     1     1     1     1     1     271-280BFL
  1     1     1     1     1     1     1     1     1     1     281-290BFL
  1     1     1     1     1     1                             291-296BFL
  1     2     3     4     5     6     7     8     9    10       CARD 14
 11    12    13    14    15    16    17    18    19    20       CARD 14
 21    22    23    24    25    26    27    28    29    30       CARD 14
 31    32    33    34    35    36    37    38    39    40       CARD 14
 41    42    43    44    45    46    47    48    49    50       CARD 14
 51    52    53    54    55    56    57    58    59    60       CARD 14
 61    62    63    64    65    66    67    68    69    70       CARD 14
 71    72    73    74    75    76    77    78    79    80       CARD 14
 81    82    83    84    85    86    87    88    89    90       CARD 14
 91    92    93    94    95    96    97    98    99   100       CARD 14
101   102   103   104   105   106   107   108   109   110       CARD 14
111   112   113   114   115   116   117   118   119   120       CARD 14
121   122   123   124   125   126   127   128   129   130       CARD 14
131   132   133   134   135   136   137   138   139   140       CARD 14
141   142   143   144   145   146   147   148   149   150       CARD 14
151   152   153   154   155   156   157   158   159   160       CARD 14
161   162   163   164   165   166   167   168   169   170       CARD 14
171   172   173   174   175   176   177   178   179   180       CARD 14
181   182   183   184   185   186   187   188   189   190       CARD 14
191   192   193   194   195   196   197   198   199   200       CARD 14
201   202   203   204   205   206   207   208   209   210       CARD 14
211   212   213   214   215   216   217   218   219   220       CARD 14
221   222   223   224   225   226   227   228   229   230       CARD 14
231   232   233   234   235   236   237   238   239   240       CARD 14
241   242   243   244   245   246   247   248   249   250       CARD 14
251   252   253   254   255   256   257   258   259   260       CARD 14
261   262   263   264   265   266   267   268   269   270       CARD 14
271   272   273   274   275   276   277   278   279   280       CARD 14
281   282   283   284   285   286   287   288   289   290       CARD 14
291   292   293   294   295   296                               CARD 14
1950  1910  1810  1600  1500  1420  1500  1650  1750  1700
1400  1400  1475  1575  1550  1330  1330  1300  1275  1375
1450  1475  1500  1210  1210  1150  1025  1150  1225  1325
1450  1475  1500  1190  1190  1135  1010  1140  1225  1325
1330  1380  1340  1050  1050  1050  1015  1015  1035   975
 990   990   995   990   985  1020  1025  1180  1210  1000
 980   980   985   985   945   970  1025   960   960   985
 995  1000  1025  1030  1025  1125   960   960   970  1000
 975  1010  1015  1020   960   960   960   960   965   970
 970   980  1050  1060  1175   980   975   975   975  1005
1015  1020  1025  1040  1040  1045  1220  1225  1260   970
 990  1055  1085  1120  1070   990   995  1025  1080  1115
1140  1170  1225  1275  1300  1050  1070  1095  1130  1140
1210  1350  1450  1060  1100  1150  1180  1190  1260  1390
1460  1575  1200  1210  1225  1290  1320  1400  1300  1325
1425  1350  1410  1450  1500  1620  1710  1750  1850  1475
1520  1560  1480  1590  1580  1520  1650  1670  1830  2010
1910  2025  2030  2320  2360  2440  2420  2600
  17
 178     0   178   178     1     1
   1  2.74     2  2.77     3  1.92     4  0.0      5  0.38
   6  0.0      7  1.15     8  2.00     9  2.46    10  0.0
  11  5.77    12  0.0     13  0.77    14  1.08    15  3.39
  16  5.54    17  4.62    18  0.0     19  0.0     20  0.77
```

21	3.19	22	6.04	23	0.43	24	0.31	25	0.15
26	0.0	27	0.0	28	0.0	29	0.0	30	0.12
31	2.54	32	0.0	33	1.08	34	1.15	35	0.23
36	1.62	37	1.54	38	1.08	39	0.77	40	0.87
41	1.59	42	1.08	43	1.08	44	0.69	45	0.77
46	0.23	47	0.77	48	0.98	49	7.40	50	1.15
51	0.38	52	0.0	53	0.31	54	0.0	55	2.00
56	1.49	57	3.11	58	2.31	59	-2.00	60	0.0
61	0.0	62	0.0	63	0.0	64	0.0	65	1.13
66	0.0	67	0.0	68	0.0	69	0.0	70	0.0
71	0.0	72	0.0	73	0.0	74	0.77	75	2.57
76	2.69	77	-16.50	78	0.0	79	0.0	80	0.0
81	0.38	82	0.0	83	0.54	84	1.26	85	0.0
86	0.0	87	0.0	88	0.0	89	0.0	90	0.0
91	1.15	92	0.0	93	1.62	94	0.62	95	5.39
96	-2.50	97	0.0	98	0.0	99	0.0	100	0.0
101	0.38	102	0.0	103	0.72	104	1.80	105	3.60
106	1.08	107	0.0	108	0.77	109	4.23	110	0.62
111	0.0	112	0.69	113	0.0	114	1.92	115	1.80
116	0.31	117	0.31	118	0.77	119	0.77	120	3.08
121	2.93	122	1.46	123	5.63	124	0.0	125	3.85
126	0.31	127	0.15	128	1.92	129	1.92	130	1.54
131	0.77	132	5.40	133	3.60	134	0.38	135	0.0
136	0.38	137	0.38	138	0.0	139	0.0	140	0.0
141	3.60	142	2.23	143	1.15	144	0.92	145	1.15
146	0.0	147	0.0	148	0.38	149	0.0	150	0.69
151	1.77	152	0.0	153	0.15	154	0.0	155	7.20
156	6.29	157	2.34	158	4.03	159	3.88	160	0.0
161	4.31	162	2.36	163	0.0	164	2.34	165	0.23
166	1.62	167	3.46	168	0.77	169	2.16	170	3.54
171	0.31	172	0.0	173	0.31	174	0.31	175	0.0
176	1.08	177	2.69	178	1.85				
1	-.09	2	0.00	3	-.26	4	0.00	5	0.00
6	0.00	7	0.00	8	0.00	9	0.00	10	0.00
11	2.45	12	0.00	13	0.00	14	-.01	15	.02
16	1.08	17	2.13	18	0.00	19	0.00	20	0.00
21	.25	22	0.00	23	0.00	24	0.00	25	1.33
26	0.00	27	.06	28	0.00	29	0.00	30	0.00
31	0.00	32	0.00	33	0.00	34	-.25	35	0.00
36	.04	37	.15	38	0.00	39	0.00	40	0.00
41	.79	42	0.00	43	0.00	44	0.00	45	-.59
46	0.00	47	0.00	48	0.00	49	0.00	50	1.12
51	0.00	52	.01	53	0.00	54	0.00	55	-.28
56	3.77	57	.01	58	.03	59	0.00	60	.32
61	0.00	62	.04	63	-.52	64	-.17	65	-.09
66	.07	67	.31	68	-1.84	69	-.67	70	-.12
71	0.00	72	0.00	73	-.16	74	.28	75	.51
76	0.00	77	.21	78	.27	79	.01	80	1.87
81	-.16	82	.87	83	0.00	84	.04	85	2.90
86	-.48	87	-.31	88	-.62	89	6.86	90	4.63
91	0.00	92	0.00	93	0.00	94	.03	95	.20
96	0.00	97	-.50	98	1.02	99	1.92	100	-.51
101	2.18	102	0.00	103	.14	104	0.00	105	0.00
106	.33	107	.79	108	.37	109	0.00	110	0.00
111	.58	112	-.34	113	1.51	114	1.62	115	.12
116	-.00	117	0.00	118	.58	119	.19	120	1.21
121	2.75	122	.17	123	0.00	124	0.00	125	.21
126	0.00	127	.11	128	.07	129	1.01	130	0.00
131	1.72	132	0.00	133	0.00	134	0.00	135	.26
136	.30	137	.22	138	0.00	139	1.16	140	0.00
141	0.00	142	.17	143	0.00	144	0.00	145	0.00

146	0.00	147	0.00	148	.03	149	0.00	150	0.00
151	1.34	152	.27	153	0.00	154	.54	155	0.00
156	0.00	157	0.00	158	.03	159	0.00	160	0.00
161	.15	162	0.00	163	0.00	164	.05	165	.33
166	-.10	167	-.10	168	0.00	169	-.08	170	0.00
171	.03	172	.04	173	.07	174	0.00	175	.04
176	0.00	177	.11	178	.10				
1	.42	2	0.00	3	1.18	4	0.00	5	0.00
6	0.00	7	0.00	8	0.00	9	0.00	10	0.00
11	3.06	12	0.00	13	0.00	14	.06	15	.04
16	.71	17	2.72	18	0.00	19	0.00	20	0.00
21	.52	22	0.00	23	0.00	24	0.00	25	1.82
26	0.00	27	1.78	28	0.00	29	0.00	30	0.00
31	0.00	32	0.00	33	0.00	34	1.75	35	.52
36	.93	37	.73	38	0.00	39	0.00	40	0.00
41	6.75	42	0.00	43	0.00	44	0.00	45	2.64
46	0.00	47	.51	48	0.00	49	0.00	50	2.81
51	0.00	52	.04	53	0.00	54	0.00	55	1.84
56	2.59	57	0.00	58	.06	59	0.00	60	.57
61	0.00	62	.02	63	2.31	64	1.12	65	.71
66	0.00	67	.04	68	6.14	69	7.79	70	.53
71	0.00	72	0.00	73	.75	74	1.73	75	.57
76	0.00	77	.49	78	3.39	79	.03	80	1.04
81	.54	82	2.17	83	0.00	84	.02	85	.32
86	5.52	87	2.46	88	3.39	89	1.59	90	.88
91	0.00	92	0.00	93	0.00	94	.38	95	.27
96	0.00	97	1.99	98	1.32	99	5.56	100	2.76
101	.82	102	0.00	103	1.59	104	0.00	105	0.00
106	.54	107	.62	108	.56	109	0.00	110	0.00
111	1.59	112	3.22	113	.44	114	.75	115	.09
116	.01	117	0.00	118	.28	119	.10	120	.11
121	.57	122	1.92	123	0.00	124	0.00	125	.28
126	0.00	127	.48	128	.57	129	.75	130	0.00
131	.88	132	0.00	133	0.00	134	0.00	135	.06
136	.37	137	.53	138	0.00	139	1.18	140	0.00
141	0.00	142	.02	143	0.00	144	0.00	145	0.00
146	0.00	147	0.00	148	.06	149	0.00	150	0.00
151	.60	152	.15	153	0.00	154	.32	155	0.00
156	0.00	157	0.00	158	0.00	159	0.00	160	0.00
161	.08	162	0.00	163	0.00	164	.12	165	.12
166	1.43	167	1.06	168	0.00	169	.40	170	0.00
171	.22	172	.09	173	1.00	174	0.00	175	.10
176	0.00	177	.78	178	.24				
	-1.0		1.0		-1.0		1.0		
178	0	178	178	2	2				
1	2.74	2	2.77	3	1.92	4	0.0	5	0.38
6	0.0	7	1.15	8	2.00	9	2.46	10	0.0
11	5.77	12	0.0	13	0.77	14	1.08	15	3.51
16	5.54	17	4.62	18	0.0	19	0.0	20	0.77
21	3.35	22	6.32	23	0.43	24	0.31	25	0.15
26	0.0	27	0.0	28	0.0	29	0.0	30	0.12
31	2.66	32	0.0	33	1.14	34	1.15	35	0.23
36	1.62	37	1.54	38	1.08	39	0.77	40	0.91
41	1.67	42	1.14	43	1.14	44	0.69	45	0.77
46	0.23	47	0.77	48	1.00	49	7.64	50	1.15
51	0.38	52	0.0	53	0.31	54	0.0	55	2.00
56	1.53	57	3.21	58	2.31	59	-2.00	60	0.0
61	0.0	62	0.0	63	0.0	64	0.0	65	1.15
66	0.0	67	0.0	68	0.0	69	0.0	70	0.0
71	0.0	72	0.0	73	0.0	74	0.77	75	2.67
76	2.69	77	-16.50	78	0.0	79	0.0	80	0.0

81	0.38	82	0.0	83	0.57	84	1.33	85	0.0
86	0.0	87	0.0	88	0.0	89	0.0	90	0.0
91	1.15	92	0.0	93	1.62	94	0.62	95	5.39
96	-2.50	97	0.0	98	0.0	99	0.0	100	0.0
101	0.38	102	0.0	103	0.76	104	1.90	105	3.80
106	1.14	107	0.0	108	0.77	109	4.23	110	0.62
111	0.0	112	0.69	113	0.0	114	1.92	115	1.90
116	0.31	117	0.31	118	0.77	119	0.77	120	3.08
121	2.93	122	1.46	123	5.93	124	0.0	125	3.85
126	0.31	127	0.15	128	1.92	129	1.92	130	1.54
131	0.77	132	5.70	133	3.80	134	0.38	135	0.0
136	0.38	137	0.38	138	0.0	139	0.0	140	0.0
141	3.80	142	2.23	143	1.15	144	0.92	145	1.15
146	0.0	147	0.0	148	0.38	149	0.0	150	0.69
151	1.77	152	0.0	153	0.15	154	0.0	155	7.60
156	6.49	157	2.44	158	4.13	159	3.98	160	0.0
161	4.31	162	2.36	163	0.0	164	2.34	165	0.23
166	1.62	167	3.46	168	0.77	169	2.16	170	3.54
171	0.31	172	0.0	173	0.31	174	0.31	175	0.0
176	1.08	177	2.69	178	1.85				
1	-.09	2	0.00	3	-.26	4	0.00	5	0.00
6	0.00	7	0.00	8	0.00	9	0.00	10	0.00
11	2.45	12	0.00	13	0.00	14	-.01	15	.02
16	1.08	17	2.13	18	0.00	19	0.00	20	0.00
21	.25	22	0.00	23	0.00	24	0.00	25	1.33
26	0.00	27	.06	28	0.00	29	0.00	30	0.00
31	0.00	32	0.00	33	0.00	34	-.25	35	0.00
36	.04	37	.15	38	0.00	39	0.00	40	0.00
41	.79	42	0.00	43	0.00	44	0.00	45	-.59
46	0.00	47	0.00	48	0.00	49	0.00	50	1.12
51	0.00	52	.01	53	0.00	54	0.00	55	-.28
56	3.77	57	.01	58	.03	59	0.00	60	.32
61	0.00	62	.04	63	-.52	64	-.17	65	-.09
66	.07	67	.31	68	-1.84	69	-.67	70	-.12
71	0.00	72	0.00	73	-.16	74	.28	75	.51
76	0.00	77	.21	78	.27	79	.01	80	1.87
81	-.16	82	.87	83	0.00	84	.04	85	2.90
86	-.48	87	-.31	88	-.62	89	6.86	90	4.63
91	0.00	92	0.00	93	0.00	94	.03	95	.20
96	0.00	97	-.50	98	1.02	99	1.92	100	-.51
101	2.18	102	0.00	103	.14	104	0.00	105	0.00
106	.33	107	.79	108	.37	109	0.00	110	0.00
111	.58	112	-.34	113	1.51	114	1.62	115	.12
116	-.00	117	0.00	118	.58	119	.19	120	1.21
121	2.75	122	.17	123	0.00	124	0.00	125	.21
126	0.00	127	.11	128	.07	129	1.01	130	0.00
131	1.72	132	0.00	133	0.00	134	0.00	135	.26
136	.30	137	.22	138	0.00	139	1.16	140	0.00
141	0.00	142	.17	143	0.00	144	0.00	145	0.00
146	0.00	147	0.00	148	.03	149	0.00	150	0.00
151	1.34	152	.27	153	0.00	154	.54	155	0.00
156	0.00	157	0.00	158	.03	159	0.00	160	0.00
161	.15	162	0.00	163	0.00	164	.05	165	.33
166	-.10	167	-.10	168	0.00	169	-.08	170	0.00
171	.03	172	.04	173	.07	174	0.00	175	.04
176	0.00	177	.11	178	.10				
1	.42	2	0.00	3	1.18	4	0.00	5	0.00
6	0.00	7	0.00	8	0.00	9	0.00	10	0.00
11	3.06	12	0.00	13	0.00	14	.06	15	.04
16	.71	17	2.72	18	0.00	19	0.00	20	0.00
21	.52	22	0.00	23	0.00	24	0.00	25	1.82

26	0.00	27	1.78	28	0.00	29	0.00	30	0.00
31	0.00	32	0.00	33	0.00	34	1.75	35	.52
36	.93	37	.73	38	0.00	39	0.00	40	0.00
41	6.75	42	0.00	43	0.00	44	0.00	45	2.64
46	0.00	47	.51	48	0.00	49	0.00	50	2.81
51	0.00	52	.04	53	0.00	54	0.00	55	1.84
56	2.59	57	0.00	58	.06	59	0.00	60	.57
61	0.00	62	.02	63	2.31	64	1.12	65	.71
66	0.00	67	.04	68	6.14	69	7.79	70	.53
71	0.00	72	0.00	73	.75	74	1.73	75	.57
76	0.00	77	.49	78	3.39	79	.03	80	1.04
81	.54	82	2.17	83	0.00	84	.02	85	.32
86	5.52	87	2.46	88	3.39	89	1.59	90	.88
91	0.00	92	0.00	93	0.00	94	.38	95	.27
96	0.00	97	1.99	98	1.32	99	5.56	100	2.76
101	.82	102	0.00	103	1.59	104	0.00	105	0.00
106	.54	107	.62	108	.56	109	0.00	110	0.00
111	1.59	112	3.22	113	.44	114	.75	115	.09
116	.01	117	0.00	118	.28	119	.10	120	.11
121	.57	122	1.92	123	0.00	124	0.00	125	.28
126	0.00	127	.48	128	.57	129	.75	130	0.00
131	.88	132	0.00	133	0.00	134	0.00	135	.06
136	.37	137	.53	138	0.00	139	1.18	140	0.00
141	0.00	142	.02	143	0.00	144	0.00	145	0.00
146	0.00	147	0.00	148	.06	149	0.00	150	0.00
151	.60	152	.15	153	0.00	154	.32	155	0.00
156	0.00	157	0.00	158	0.00	159	0.00	160	0.00
161	.08	162	0.00	163	0.00	164	.12	165	.12
166	1.43	167	1.06	168	0.00	169	.40	170	0.00
171	.22	172	.09	173	1.00	174	0.00	175	.10
176	0.00	177	.78	178	.24				
	-1.0		1.0		-1.0		1.0		
178	0	178	178	3	3				
1	2.74	2	2.77	3	1.92	4	0.0	5	0.38
6	0.0	7	1.15	8	2.00	9	2.46	10	0.0
11	5.77	12	0.0	13	0.77	14	1.08	15	3.60
16	5.54	17	4.62	18	0.0	19	0.0	20	0.77
21	3.47	22	6.53	23	0.43	24	0.31	25	0.15
26	0.0	27	0.0	28	0.0	29	0.0	30	0.12
31	2.75	32	0.0	33	1.18	34	1.15	35	0.23
36	1.62	37	1.54	38	1.08	39	0.77	40	0.94
41	1.73	42	1.18	43	1.18	44	0.69	45	0.77
46	0.23	47	0.77	48	1.01	49	7.82	50	1.15
51	0.38	52	0.0	53	0.31	54	0.0	55	2.00
56	1.56	57	3.28	58	2.31	59	-2.00	60	0.0
61	0.0	62	0.0	63	0.0	64	0.0	65	1.16
66	0.0	67	0.0	68	0.0	69	0.0	70	0.0
71	0.0	72	0.0	73	0.0	74	0.77	75	2.74
76	2.69	77	-16.50	78	0.0	79	0.0	80	0.0
81	0.38	82	0.0	83	0.59	84	1.38	85	0.0
86	0.0	87	0.0	88	0.0	89	0.0	90	0.0
91	1.15	92	0.0	93	1.62	94	0.62	95	5.39
96	-2.50	97	0.0	98	0.0	99	0.0	100	0.0
101	0.38	102	0.0	103	0.79	104	1.97	105	3.95
106	1.18	107	0.0	108	0.77	109	4.23	110	0.62
111	0.0	112	0.69	113	0.0	114	1.92	115	1.97
116	0.31	117	0.31	118	0.77	119	0.77	120	3.08
121	2.93	122	1.46	123	6.15	124	0.0	125	3.85
126	0.31	127	0.15	128	1.92	129	1.92	130	1.54
131	0.77	132	5.92	133	3.95	134	0.38	135	0.0
136	0.38	137	0.38	138	0.0	139	0.0	140	0.0

141	3.95	142	2.23	143	1.15	144	0.92	145	1.15
146	0.0	147	0.0	148	0.38	149	0.0	150	0.69
151	1.77	152	0.0	153	0.15	154	0.0	155	7.90
156	6.64	157	2.51	158	4.20	159	4.05	160	0.0
161	4.31	162	2.36	163	0.0	164	2.34	165	0.23
166	1.62	167	3.46	168	0.77	169	2.16	170	3.54
171	0.31	172	0.0	173	0.31	174	0.31	175	0.0
176	1.08	177	2.69	178	1.85				
1	-.09	2	0.00	3	-.26	4	0.00	5	0.00
6	0.00	7	0.00	8	0.00	9	0.00	10	0.00
11	2.45	12	0.00	13	0.00	14	-.01	15	.02
16	1.08	17	2.13	18	0.00	19	0.00	20	0.00
21	.25	22	0.00	23	0.00	24	0.00	25	1.33
26	0.00	27	.06	28	0.00	29	0.00	30	0.00
31	0.00	32	0.00	33	0.00	34	-.25	35	0.00
36	.04	37	.15	38	0.00	39	0.00	40	0.00
41	.79	42	0.00	43	0.00	44	0.00	45	-.59
46	0.00	47	0.00	48	0.00	49	0.00	50	1.12
51	0.00	52	.01	53	0.00	54	0.00	55	-.28
56	3.77	57	.01	58	.03	59	0.00	60	.32
61	0.00	62	.04	63	-.52	64	-.17	65	-.09
66	.07	67	.31	68	-1.84	69	-.67	70	-.12
71	0.00	72	0.00	73	-.16	74	.28	75	.51
76	0.00	77	.21	78	.27	79	.01	80	1.87
81	-.16	82	.87	83	0.00	84	.04	85	2.90
86	-.48	87	-.31	88	-.62	89	6.86	90	4.63
91	0.00	92	0.00	93	0.00	94	.03	95	.20
96	0.00	97	-.50	98	1.02	99	1.92	100	-.51
101	2.18	102	0.00	103	.14	104	0.00	105	0.00
106	.33	107	.79	108	.37	109	0.00	110	0.00
111	.58	112	-.34	113	1.51	114	1.62	115	.12
116	-.00	117	0.00	118	.58	119	.19	120	1.21
121	2.75	122	.17	123	0.00	124	0.00	125	.21
126	0.00	127	.11	128	.07	129	1.01	130	0.00
131	1.72	132	0.00	133	0.00	134	0.00	135	.26
136	.30	137	.22	138	0.00	139	1.16	140	0.00
141	0.00	142	.17	143	0.00	144	0.00	145	0.00
146	0.00	147	0.00	148	.03	149	0.00	150	0.00
151	1.34	152	.27	153	0.00	154	.54	155	0.00
156	0.00	157	0.00	158	.03	159	0.00	160	0.00
161	.15	162	0.00	163	0.00	164	.05	165	.33
166	-.10	167	-.10	168	0.00	169	-.08	170	0.00
171	.03	172	.04	173	.07	174	0.00	175	.04
176	0.00	177	.11	178	.10				
1	.42	2	0.00	3	1.18	4	0.00	5	0.00
6	0.00	7	0.00	8	0.00	9	0.00	10	0.00
11	3.06	12	0.00	13	0.00	14	.06	15	.04
16	.71	17	2.72	18	0.00	19	0.00	20	0.00
21	.52	22	0.00	23	0.00	24	0.00	25	1.82
26	0.00	27	1.78	28	0.00	29	0.00	30	0.00
31	0.00	32	0.00	33	0.00	34	1.75	35	.52
36	.93	37	.73	38	0.00	39	0.00	40	0.00
41	6.75	42	0.00	43	0.00	44	0.00	45	2.64
46	0.00	47	.51	48	0.00	49	0.00	50	2.81
51	0.00	52	.04	53	0.00	54	0.00	55	1.84
56	2.59	57	0.00	58	.06	59	0.00	60	.57
61	0.00	62	.02	63	2.31	64	1.12	65	.71
66	0.00	67	.04	68	6.14	69	7.79	70	.53
71	0.00	72	0.00	73	.75	74	1.73	75	.57
76	0.00	77	.49	78	3.39	79	.03	80	1.04
81	.54	82	2.17	83	0.00	84	.02	85	.32

86	5.52	87	2.46	88	3.39	89	1.59	90	.88
91	0.00	92	0.00	93	0.00	94	.38	95	.27
96	0.00	97	1.99	98	1.32	99	5.56	100	2.76
101	.82	102	0.00	103	1.59	104	0.00	105	0.00
106	.54	107	.62	108	.56	109	0.00	110	0.00
111	1.59	112	3.22	113	.44	114	.75	115	.09
116	.01	117	0.00	118	.28	119	.10	120	.11
121	.57	122	1.92	123	0.00	124	0.00	125	.28
126	0.00	127	.48	128	.57	129	.75	130	0.00
131	.88	132	0.00	133	0.00	134	0.00	135	.06
136	.37	137	.53	138	0.00	139	1.18	140	0.00
141	0.00	142	.02	143	0.00	144	0.00	145	0.00
146	0.00	147	0.00	148	.06	149	0.00	150	0.00
151	.60	152	.15	153	0.00	154	.32	155	0.00
156	0.00	157	0.00	158	0.00	159	0.00	160	0.00
161	.08	162	0.00	163	0.00	164	.12	165	.12
166	1.43	167	1.06	168	0.00	169	.40	170	0.00
171	.22	172	.09	173	1.00	174	0.00	175	.10
176	0.00	177	.78	178	.24				
	-1.0		1.0		-1.0		1.0		
178	0	178	178	4	4				
1	2.74	2	2.77	3	1.92	4	0.0	5	0.38
6	0.0	7	1.15	8	2.00	9	2.46	10	0.0
11	5.77	12	0.0	13	0.77	14	1.08	15	3.69
16	5.54	17	4.62	18	0.0	19	0.0	20	0.77
21	3.59	22	6.74	23	0.43	24	0.31	25	0.15
26	0.0	27	0.0	28	0.0	29	0.0	30	0.12
31	2.84	32	0.0	33	1.23	34	1.15	35	0.23
36	1.62	37	1.54	38	1.08	39	0.77	40	0.97
41	1.79	42	1.23	43	1.23	44	0.69	45	0.77
46	0.23	47	0.77	48	1.03	49	8.00	50	1.15
51	0.38	52	0.0	53	0.31	54	0.0	55	2.00
56	1.59	57	3.36	58	2.31	59	-2.00	60	0.0
61	0.0	62	0.0	63	0.0	64	0.0	65	1.18
66	0.0	67	0.0	68	0.0	69	0.0	70	0.0
71	0.0	72	0.0	73	0.0	74	0.77	75	2.82
76	2.69	77	-16.50	78	0.0	79	0.0	80	0.0
81	0.38	82	0.0	83	0.61	84	1.43	85	0.0
86	0.0	87	0.0	88	0.0	89	0.0	90	0.0
91	1.15	92	0.0	93	1.62	94	0.62	95	5.39
96	-2.50	97	0.0	98	0.0	99	0.0	100	0.0
101	0.38	102	0.0	103	0.82	104	2.05	105	4.10
106	1.23	107	0.0	108	0.77	109	4.23	110	0.62
111	0.0	112	0.69	113	0.0	114	1.92	115	2.05
116	0.31	117	0.31	118	0.77	119	0.77	120	3.08
121	2.93	122	1.46	123	6.38	124	0.0	125	3.85
126	0.31	127	0.15	128	1.92	129	1.92	130	1.54
131	0.77	132	6.15	133	4.10	134	0.38	135	0.0
136	0.38	137	0.38	138	0.0	139	0.0	140	0.0
141	4.10	142	2.23	143	1.15	144	0.92	145	1.15
146	0.0	147	0.0	148	0.38	149	0.0	150	0.69
151	1.77	152	0.0	153	0.15	154	0.0	155	8.20
156	6.79	157	2.59	158	4.28	159	4.13	160	0.0
161	4.31	162	2.36	163	0.0	164	2.34	165	0.23
166	1.62	167	3.46	168	0.77	169	2.16	170	3.54
171	0.31	172	0.0	173	0.31	174	0.31	175	0.0
176	1.08	177	2.69	178	1.85				
1	-.09	2	0.00	3	-.26	4	0.00	5	0.00
6	0.00	7	0.00	8	0.00	9	0.00	10	0.00
11	2.45	12	0.00	13	0.00	14	-.01	15	.02
16	1.08	17	2.13	18	0.00	19	0.00	20	0.00

21	.25	22	0.00	23	0.00	24	0.00	25	1.33
26	0.00	27	.06	28	0.00	29	0.00	30	0.00
31	0.00	32	0.00	33	0.00	34	-.25	35	0.00
36	.04	37	.15	38	0.00	39	0.00	40	0.00
41	.79	42	0.00	43	0.00	44	0.00	45	-.59
46	0.00	47	0.00	48	0.00	49	0.00	50	1.12
51	0.00	52	.01	53	0.00	54	0.00	55	-.28
56	3.77	57	.01	58	.03	59	0.00	60	.32
61	0.00	62	.04	63	-.52	64	-.17	65	-.09
66	.07	67	.31	68	-1.84	69	-.67	70	-.12
71	0.00	72	0.00	73	-.16	74	.28	75	.51
76	0.00	77	.21	78	.27	79	.01	80	1.87
81	-.16	82	.87	83	0.00	84	.04	85	2.90
86	-.48	87	-.31	88	-.62	89	6.86	90	4.63
91	0.00	92	0.00	93	0.00	94	.03	95	.20
96	0.00	97	-.50	98	1.02	99	1.92	100	-.51
101	2.18	102	0.00	103	.14	104	0.00	105	0.00
106	.33	107	.79	108	.37	109	0.00	110	0.00
111	.58	112	-.34	113	1.51	114	1.62	115	.12
116	-.00	117	0.00	118	.58	119	.19	120	1.21
121	2.75	122	.17	123	0.00	124	0.00	125	.21
126	0.00	127	.11	128	.07	129	1.01	130	0.00
131	1.72	132	0.00	133	0.00	134	0.00	135	.26
136	.30	137	.22	138	0.00	139	1.16	140	0.00
141	0.00	142	.17	143	0.00	144	0.00	145	0.00
146	0.00	147	0.00	148	.03	149	0.00	150	0.00
151	1.34	152	.27	153	0.00	154	.54	155	0.00
156	0.00	157	0.00	158	.03	159	0.00	160	0.00
161	.15	162	0.00	163	0.00	164	.05	165	.33
166	-.10	167	-.10	168	0.00	169	-.08	170	0.00
171	.03	172	.04	173	.07	174	0.00	175	.04
176	0.00	177	.11	178	.10				
1	.42	2	0.00	3	1.18	4	0.00	5	0.00
6	0.00	7	0.00	8	0.00	9	0.00	10	0.00
11	3.06	12	0.00	13	0.00	14	.06	15	.04
16	.71	17	2.72	18	0.00	19	0.00	20	0.00
21	.52	22	0.00	23	0.00	24	0.00	25	1.82
26	0.00	27	1.78	28	0.00	29	0.00	30	0.00
31	0.00	32	0.00	33	0.00	34	1.75	35	.52
36	.93	37	.73	38	0.00	39	0.00	40	0.00
41	6.75	42	0.00	43	0.00	44	0.00	45	2.64
46	0.00	47	.51	48	0.00	49	0.00	50	2.81
51	0.00	52	.04	53	0.00	54	0.00	55	1.84
56	2.59	57	0.00	58	.06	59	0.00	60	.57
61	0.00	62	.02	63	2.31	64	1.12	65	.71
66	0.00	67	.04	68	6.14	69	7.79	70	.53
71	0.00	72	0.00	73	.75	74	1.73	75	.57
76	0.00	77	.49	78	3.39	79	.03	80	1.04
81	.54	82	2.17	83	0.00	84	.02	85	.32
86	5.52	87	2.46	88	3.39	89	1.59	90	.88
91	0.00	92	0.00	93	0.00	94	.38	95	.27
96	0.00	97	1.99	98	1.32	99	5.56	100	2.76
101	.82	102	0.00	103	1.59	104	0.00	105	0.00
106	.54	107	.62	108	.56	109	0.00	110	0.00
111	1.59	112	3.22	113	.44	114	.75	115	.09
116	.01	117	0.00	118	.28	119	.10	120	.11
121	.57	122	1.92	123	0.00	124	0.00	125	.28
126	0.00	127	.48	128	.57	129	.75	130	0.00
131	.88	132	0.00	133	0.00	134	0.00	135	.06
136	.37	137	.53	138	0.00	139	1.18	140	0.00
141	0.00	142	.02	143	0.00	144	0.00	145	0.00

146	0.00	147	0.00	148	.06	149	0.00	150	0.00
151	.60	152	.15	153	0.00	154	.32	155	0.00
156	0.00	157	0.00	158	0.00	159	0.00	160	0.00
161	.08	162	0.00	163	0.00	164	.12	165	.12
166	1.43	167	1.06	168	0.00	169	.40	170	0.00
171	.22	172	.09	173	1.00	174	0.00	175	.10
176	0.00	177	.78	178	.24				
	-1.0		1.0		-1.0		1.0		
178	0	178	178	5	5				
1	2.74	2	2.77	3	1.92	4	0.0	5	0.38
6	0.0	7	1.15	8	2.00	9	2.46	10	0.0
11	5.77	12	0.0	13	0.77	14	1.08	15	3.81
16	5.54	17	4.62	18	0.0	19	0.0	20	0.77
21	3.75	22	7.02	23	0.43	24	0.31	25	0.15
26	0.0	27	0.0	28	0.0	29	0.0	30	0.12
31	2.96	32	0.0	33	1.29	34	1.15	35	0.23
36	1.62	37	1.54	38	1.08	39	0.77	40	1.01
41	1.87	42	1.29	43	1.29	44	0.69	45	0.77
46	0.23	47	0.77	48	1.05	49	8.24	50	1.15
51	0.38	52	0.0	53	0.31	54	0.0	55	2.00
56	1.63	57	3.46	58	2.31	59	-2.00	60	0.0
61	0.0	62	0.0	63	0.0	64	0.0	65	1.20
66	0.0	67	0.0	68	0.0	69	0.0	70	0.0
71	0.0	72	0.0	73	0.0	74	0.77	75	2.92
76	2.69	77	-16.50	78	0.0	79	0.0	80	0.0
81	0.38	82	0.0	83	0.64	84	1.50	85	0.0
86	0.0	87	0.0	88	0.0	89	0.0	90	0.0
91	1.15	92	0.0	93	1.62	94	0.62	95	5.39
96	-2.50	97	0.0	98	0.0	99	0.0	100	0.0
101	0.38	102	0.0	103	0.86	104	2.15	105	4.30
106	1.29	107	0.0	108	0.77	109	4.23	110	0.62
111	0.0	112	0.69	113	0.0	114	1.92	115	2.15
116	0.31	117	0.31	118	0.77	119	0.77	120	3.08
121	2.93	122	1.46	123	6.68	124	0.0	125	3.85
126	0.31	127	0.15	128	1.92	129	1.92	130	1.54
131	0.77	132	6.45	133	4.30	134	0.38	135	0.0
136	0.38	137	0.38	138	0.0	139	0.0	140	0.0
141	4.30	142	2.23	143	1.15	144	0.92	145	1.15
146	0.0	147	0.0	148	0.38	149	0.0	150	0.69
151	1.77	152	0.0	153	0.15	154	0.0	155	8.60
156	6.99	157	2.69	158	4.38	159	4.23	160	0.0
161	4.31	162	2.36	163	0.0	164	2.34	165	0.23
166	1.62	167	3.46	168	0.77	169	2.16	170	3.54
171	0.31	172	0.0	173	0.31	174	0.31	175	0.0
176	1.08	177	2.69	178	1.85				
1	-.09	2	0.00	3	-.26	4	0.00	5	0.00
6	0.00	7	0.00	8	0.00	9	0.00	10	0.00
11	2.45	12	0.00	13	0.00	14	-.01	15	.02
16	1.08	17	2.13	18	0.00	19	0.00	20	0.00
21	.25	22	0.00	23	0.00	24	0.00	25	1.33
26	0.00	27	.06	28	0.00	29	0.00	30	0.00
31	0.00	32	0.00	33	0.00	34	-.25	35	0.00
36	.04	37	.15	38	0.00	39	0.00	40	0.00
41	.79	42	0.00	43	0.00	44	0.00	45	-.59
46	0.00	47	0.00	48	0.00	49	0.00	50	1.12
51	0.00	52	.01	53	0.00	54	0.00	55	-.28
56	3.77	57	.01	58	.03	59	0.00	60	.32
61	0.00	62	.04	63	-.52	64	-.17	65	-.09
66	.07	67	.31	68	-1.84	69	-.67	70	-.12
71	0.00	72	0.00	73	-.16	74	.28	75	.51
76	0.00	77	.21	78	.27	79	.01	80	1.87

81	-.16	82	.87	83	0.00	84	.04	85	2.90
86	-.48	87	-.31	88	-.62	89	6.86	90	4.63
91	0.00	92	0.00	93	0.00	94	.03	95	.20
96	0.00	97	-.50	98	1.02	99	1.92	100	-.51
101	2.18	102	0.00	103	.14	104	0.00	105	0.00
106	.33	107	.79	108	.37	109	0.00	110	0.00
111	.58	112	-.34	113	1.51	114	1.62	115	.12
116	-.00	117	0.00	118	.58	119	.19	120	1.21
121	2.75	122	.17	123	0.00	124	0.00	125	.21
126	0.00	127	.11	128	.07	129	1.01	130	0.00
131	1.72	132	0.00	133	0.00	134	0.00	135	.26
136	.30	137	.22	138	0.00	139	1.16	140	0.00
141	0.00	142	.17	143	0.00	144	0.00	145	0.00
146	0.00	147	0.00	148	.03	149	0.00	150	0.00
151	1.34	152	.27	153	0.00	154	.54	155	0.00
156	0.00	157	0.00	158	.03	159	0.00	160	0.00
161	.15	162	0.00	163	0.00	164	.05	165	.33
166	-.10	167	-.10	168	0.00	169	-.08	170	0.00
171	.03	172	.04	173	.07	174	0.00	175	.04
176	0.00	177	.11	178	.10				
1	.42	2	0.00	3	1.18	4	0.00	5	0.00
6	0.00	7	0.00	8	0.00	9	0.00	10	0.00
11	3.06	12	0.00	13	0.00	14	.06	15	.04
16	.71	17	2.72	18	0.00	19	0.00	20	0.00
21	.52	22	0.00	23	0.00	24	0.00	25	1.82
26	0.00	27	1.78	28	0.00	29	0.00	30	0.00
31	0.00	32	0.00	33	0.00	34	1.75	35	.52
36	.93	37	.73	38	0.00	39	0.00	40	0.00
41	6.75	42	0.00	43	0.00	44	0.00	45	2.64
46	0.00	47	.51	48	0.00	49	0.00	50	2.81
51	0.00	52	.04	53	0.00	54	0.00	55	1.84
56	2.59	57	0.00	58	.06	59	0.00	60	.57
61	0.00	62	.02	63	2.31	64	1.12	65	.71
66	0.00	67	.04	68	6.14	69	7.79	70	.53
71	0.00	72	0.00	73	.75	74	1.73	75	.57
76	0.00	77	.49	78	3.39	79	.03	80	1.04
81	.54	82	2.17	83	0.00	84	.02	85	.32
86	5.52	87	2.46	88	3.39	89	1.59	90	.88
91	0.00	92	0.00	93	0.00	94	.38	95	.27
96	0.00	97	1.99	98	1.32	99	5.56	100	2.76
101	.82	102	0.00	103	1.59	104	0.00	105	0.00
106	.54	107	.62	108	.56	109	0.00	110	0.00
111	1.59	112	3.22	113	.44	114	.75	115	.09
116	.01	117	0.00	118	.28	119	.10	120	.11
121	.57	122	1.92	123	0.00	124	0.00	125	.28
126	0.00	127	.48	128	.57	129	.75	130	0.00
131	.88	132	0.00	133	0.00	134	0.00	135	.06
136	.37	137	.53	138	0.00	139	1.18	140	0.00
141	0.00	142	.02	143	0.00	144	0.00	145	0.00
146	0.00	147	0.00	148	.06	149	0.00	150	0.00
151	.60	152	.15	153	0.00	154	.32	155	0.00
156	0.00	157	0.00	158	0.00	159	0.00	160	0.00
161	.08	162	0.00	163	0.00	164	.12	165	.12
166	1.43	167	1.06	168	0.00	169	.40	170	0.00
171	.22	172	.09	173	1.00	174	0.00	175	.10
176	0.00	177	.78	178	.24				
	-1.0		1.0		-1.0		1.0		
178	0	178	178	6	6				
1	2.74	2	2.77	3	1.92	4	0.0	5	0.38
6	0.0	7	1.15	8	2.00	9	2.46	10	0.0
11	5.77	12	0.0	13	0.77	14	1.08	15	3.93

16	5.54	17	4.62	18	0.0	19	0.0	20	0.77
21	3.91	22	7.30	23	0.43	24	0.31	25	0.15
26	0.0	27	0.0	28	0.0	29	0.0	30	0.12
31	3.08	32	0.0	33	1.35	34	1.15	35	0.23
36	1.62	37	1.54	38	1.08	39	0.77	40	1.05
41	1.95	42	1.35	43	1.35	44	0.69	45	0.77
46	0.23	47	0.77	48	1.07	49	8.48	50	1.15
51	0.38	52	0.0	53	0.31	54	0.0	55	2.00
56	1.67	57	3.56	58	2.31	59	-2.00	60	0.0
61	0.0	62	0.0	63	0.0	64	0.0	65	1.22
66	0.0	67	0.0	68	0.0	69	0.0	70	0.0
71	0.0	72	0.0	73	0.0	74	0.77	75	3.02
76	2.69	77	-16.50	78	0.0	79	0.0	80	0.0
81	0.38	82	0.0	83	0.67	84	1.57	85	0.0
86	0.0	87	0.0	88	0.0	89	0.0	90	0.0
91	1.15	92	0.0	93	1.62	94	0.62	95	5.39
96	-2.50	97	0.0	98	0.0	99	0.0	100	0.0
101	0.38	102	0.0	103	0.90	104	2.25	105	4.50
106	1.35	107	0.0	108	0.77	109	4.23	110	0.62
111	0.0	112	0.69	113	0.0	114	1.92	115	2.25
116	0.31	117	0.31	118	0.77	119	0.77	120	3.08
121	2.93	122	1.46	123	6.98	124	0.0	125	3.85
126	0.31	127	0.15	128	1.92	129	1.92	130	1.54
131	0.77	132	6.75	133	4.50	134	0.38	135	0.0
136	0.38	137	0.38	138	0.0	139	0.0	140	0.0
141	4.50	142	2.23	143	1.15	144	0.92	145	1.15
146	0.0	147	0.0	148	0.38	149	0.0	150	0.69
151	1.77	152	0.0	153	0.15	154	0.0	155	9.00
156	7.19	157	2.79	158	4.48	159	4.33	160	0.0
161	4.31	162	2.36	163	0.0	164	2.34	165	0.23
166	1.62	167	3.46	168	0.77	169	2.16	170	3.54
171	0.31	172	0.0	173	0.31	174	0.31	175	0.0
176	1.08	177	2.69	178	1.85				
1	-.09	2	0.00	3	-.26	4	0.00	5	0.00
6	0.00	7	0.00	8	0.00	9	0.00	10	0.00
11	2.45	12	0.00	13	0.00	14	-.01	15	.02
16	1.08	17	2.13	18	0.00	19	0.00	20	0.00
21	.25	22	0.00	23	0.00	24	0.00	25	1.33
26	0.00	27	.06	28	0.00	29	0.00	30	0.00
31	0.00	32	0.00	33	0.00	34	-.25	35	0.00
36	.04	37	.15	38	0.00	39	0.00	40	0.00
41	.79	42	0.00	43	0.00	44	0.00	45	-.59
46	0.00	47	0.00	48	0.00	49	0.00	50	1.12
51	0.00	52	.01	53	0.00	54	0.00	55	-.28
56	3.77	57	.01	58	.03	59	0.00	60	.32
61	0.00	62	.04	63	-.52	64	-.17	65	-.09
66	.07	67	.31	68	-1.84	69	-.67	70	-.12
71	0.00	72	0.00	73	-.16	74	.28	75	.51
76	0.00	77	.21	78	.27	79	.01	80	1.87
81	-.16	82	.87	83	0.00	84	.04	85	2.90
86	-.48	87	-.31	88	-.62	89	6.86	90	4.63
91	0.00	92	0.00	93	0.00	94	.03	95	.20
96	0.00	97	-.50	98	1.02	99	1.92	100	-.51
101	2.18	102	0.00	103	.14	104	0.00	105	0.00
106	.33	107	.79	108	.37	109	0.00	110	0.00
111	.58	112	-.34	113	1.51	114	1.62	115	.12
116	-.00	117	0.00	118	.58	119	.19	120	1.21
121	2.75	122	.17	123	0.00	124	0.00	125	.21
126	0.00	127	.11	128	.07	129	1.01	130	0.00
131	1.72	132	0.00	133	0.00	134	0.00	135	.26
136	.30	137	.22	138	0.00	139	1.16	140	0.00

141	0.00	142	.17	143	0.00	144	0.00	145	0.00
146	0.00	147	0.00	148	.03	149	0.00	150	0.00
151	1.34	152	.27	153	0.00	154	.54	155	0.00
156	0.00	157	0.00	158	.03	159	0.00	160	0.00
161	.15	162	0.00	163	0.00	164	.05	165	.33
166	-.10	167	-.10	168	0.00	169	-.08	170	0.00
171	.03	172	.04	173	.07	174	0.00	175	.04
176	0.00	177	.11	178	.10				
1	.42	2	0.00	3	1.18	4	0.00	5	0.00
6	0.00	7	0.00	8	0.00	9	0.00	10	0.00
11	3.06	12	0.00	13	0.00	14	.06	15	.04
16	.71	17	2.72	18	0.00	19	0.00	20	0.00
21	.52	22	0.00	23	0.00	24	0.00	25	1.82
26	0.00	27	1.78	28	0.00	29	0.00	30	0.00
31	0.00	32	0.00	33	0.00	34	1.75	35	.52
36	.93	37	.73	38	0.00	39	0.00	40	0.00
41	6.75	42	0.00	43	0.00	44	0.00	45	2.64
46	0.00	47	.51	48	0.00	49	0.00	50	2.81
51	0.00	52	.04	53	0.00	54	0.00	55	1.84
56	2.59	57	0.00	58	.06	59	0.00	60	.57
61	0.00	62	.02	63	2.31	64	1.12	65	.71
66	0.00	67	.04	68	6.14	69	7.79	70	.53
71	0.00	72	0.00	73	.75	74	1.73	75	.57
76	0.00	77	.49	78	3.39	79	.03	80	1.04
81	.54	82	2.17	83	0.00	84	.02	85	.32
86	5.52	87	2.46	88	3.39	89	1.59	90	.88
91	0.00	92	0.00	93	0.00	94	.38	95	.27
96	0.00	97	1.99	98	1.32	99	5.56	100	2.76
101	.82	102	0.00	103	1.59	104	0.00	105	0.00
106	.54	107	.62	108	.56	109	0.00	110	0.00
111	1.59	112	3.22	113	.44	114	.75	115	.09
116	.01	117	0.00	118	.28	119	.10	120	.11
121	.57	122	1.92	123	0.00	124	0.00	125	.28
126	0.00	127	.48	128	.57	129	.75	130	0.00
131	.88	132	0.00	133	0.00	134	0.00	135	.06
136	.37	137	.53	138	0.00	139	1.18	140	0.00
141	0.00	142	.02	143	0.00	144	0.00	145	0.00
146	0.00	147	0.00	148	.06	149	0.00	150	0.00
151	.60	152	.15	153	0.00	154	.32	155	0.00
156	0.00	157	0.00	158	0.00	159	0.00	160	0.00
161	.08	162	0.00	163	0.00	164	.12	165	.12
166	1.43	167	1.06	168	0.00	169	.40	170	0.00
171	.22	172	.09	173	1.00	174	0.00	175	.10
176	0.00	177	.78	178	.24				
	-1.0		1.0		-1.0		1.0		
178	0	178	178	7	7				
1	2.74	2	2.77	3	1.92	4	0.0	5	0.38
6	0.0	7	1.15	8	2.00	9	2.46	10	0.0
11	5.77	12	0.0	13	0.77	14	1.08	15	4.05
16	5.54	17	4.62	18	0.0	19	0.0	20	0.77
21	4.07	22	7.58	23	0.43	24	0.31	25	0.15
26	0.0	27	0.0	28	0.0	29	0.0	30	0.12
31	3.20	32	0.0	33	1.41	34	1.15	35	0.23
36	1.62	37	1.54	38	1.08	39	0.77	40	1.09
41	2.03	42	1.41	43	1.41	44	0.69	45	0.77
46	0.23	47	0.77	48	1.09	49	8.72	50	1.15
51	0.38	52	0.0	53	0.31	54	0.0	55	2.00
56	1.71	57	3.66	58	2.31	59	-2.00	60	0.0
61	0.0	62	0.0	63	0.0	64	0.0	65	1.24
66	0.0	67	0.0	68	0.0	69	0.0	70	0.0
71	0.0	72	0.0	73	0.0	74	0.77	75	3.12

76	2.69	77	-16.50	78	0.0	79	0.0	80	0.0
81	0.38	82	0.0	83	0.70	84	1.64	85	0.0
86	0.0	87	0.0	88	0.0	89	0.0	90	0.0
91	1.15	92	0.0	93	1.62	94	0.62	95	5.39
96	-2.50	97	0.0	98	0.0	99	0.0	100	0.0
101	0.38	102	0.0	103	0.94	104	2.35	105	4.70
106	1.41	107	0.0	108	0.77	109	4.23	110	0.62
111	0.0	112	0.69	113	0.0	114	1.92	115	2.35
116	0.31	117	0.31	118	0.77	119	0.77	120	3.08
121	2.93	122	1.46	123	7.28	124	0.0	125	3.85
126	0.31	127	0.15	128	1.92	129	1.92	130	1.54
131	0.77	132	7.05	133	4.70	134	0.38	135	0.0
136	0.38	137	0.38	138	0.0	139	0.0	140	0.0
141	4.70	142	2.23	143	1.15	144	0.92	145	1.15
146	0.0	147	0.0	148	0.38	149	0.0	150	0.69
151	1.77	152	0.0	153	0.15	154	0.0	155	9.40
156	7.39	157	2.89	158	4.58	159	4.43	160	0.0
161	4.31	162	2.36	163	0.0	164	2.34	165	0.23
166	1.62	167	3.46	168	0.77	169	2.16	170	3.54
171	0.31	172	0.0	173	0.31	174	0.31	175	0.0
176	1.08	177	2.69	178	1.85				
1	-.09	2	0.00	3	-.26	4	0.00	5	0.00
6	0.00	7	0.00	8	0.00	9	0.00	10	0.00
11	2.45	12	0.00	13	0.00	14	-.01	15	.02
16	1.08	17	2.13	18	0.00	19	0.00	20	0.00
21	.25	22	0.00	23	0.00	24	0.00	25	1.33
26	0.00	27	.06	28	0.00	29	0.00	30	0.00
31	0.00	32	0.00	33	0.00	34	-.25	35	0.00
36	.04	37	.15	38	0.00	39	0.00	40	0.00
41	.79	42	0.00	43	0.00	44	0.00	45	-.59
46	0.00	47	0.00	48	0.00	49	0.00	50	1.12
51	0.00	52	.01	53	0.00	54	0.00	55	-.28
56	3.77	57	.01	58	.03	59	0.00	60	.32
61	0.00	62	.04	63	-.52	64	-.17	65	-.09
66	.07	67	.31	68	-1.84	69	-.67	70	-.12
71	0.00	72	0.00	73	-.16	74	.28	75	.51
76	0.00	77	.21	78	.27	79	.01	80	1.87
81	-.16	82	.87	83	0.00	84	.04	85	2.90
86	-.48	87	-.31	88	-.62	89	6.86	90	4.63
91	0.00	92	0.00	93	0.00	94	.03	95	.20
96	0.00	97	-.50	98	1.02	99	1.92	100	-.51
101	2.18	102	0.00	103	.14	104	0.00	105	0.00
106	.33	107	.79	108	.37	109	0.00	110	0.00
111	.58	112	-.34	113	1.51	114	1.62	115	.12
116	-.00	117	0.00	118	.58	119	.19	120	1.21
121	2.75	122	.17	123	0.00	124	0.00	125	.21
126	0.00	127	.11	128	.07	129	1.01	130	0.00
131	1.72	132	0.00	133	0.00	134	0.00	135	.26
136	.30	137	.22	138	0.00	139	1.16	140	0.00
141	0.00	142	.17	143	0.00	144	0.00	145	0.00
146	0.00	147	0.00	148	.03	149	0.00	150	0.00
151	1.34	152	.27	153	0.00	154	.54	155	0.00
156	0.00	157	0.00	158	.03	159	0.00	160	0.00
161	.15	162	0.00	163	0.00	164	.05	165	.33
166	-.10	167	-.10	168	0.00	169	-.08	170	0.00
171	.03	172	.04	173	.07	174	0.00	175	.04
176	0.00	177	.11	178	.10				
1	.42	2	0.00	3	1.18	4	0.00	5	0.00
6	0.00	7	0.00	8	0.00	9	0.00	10	0.00
11	3.06	12	0.00	13	0.00	14	.06	15	.04
16	.71	17	2.72	18	0.00	19	0.00	20	0.00

21	.52	22	0.00	23	0.00	24	0.00	25	1.82
26	0.00	27	1.78	28	0.00	29	0.00	30	0.00
31	0.00	32	0.00	33	0.00	34	1.75	35	.52
36	.93	37	.73	38	0.00	39	0.00	40	0.00
41	6.75	42	0.00	43	0.00	44	0.00	45	2.64
46	0.00	47	.51	48	0.00	49	0.00	50	2.81
51	0.00	52	.04	53	0.00	54	0.00	55	1.84
56	2.59	57	0.00	58	.06	59	0.00	60	.57
61	0.00	62	.02	63	2.31	64	1.12	65	.71
66	0.00	67	.04	68	6.14	69	7.79	70	.53
71	0.00	72	0.00	73	.75	74	1.73	75	.57
76	0.00	77	.49	78	3.39	79	.03	80	1.04
81	.54	82	2.17	83	0.00	84	.02	85	.32
86	5.52	87	2.46	88	3.39	89	1.59	90	.88
91	0.00	92	0.00	93	0.00	94	.38	95	.27
96	0.00	97	1.99	98	1.32	99	5.56	100	2.76
101	.82	102	0.00	103	1.59	104	0.00	105	0.00
106	.54	107	.62	108	.56	109	0.00	110	0.00
111	1.59	112	3.22	113	.44	114	.75	115	.09
116	.01	117	0.00	118	.28	119	.10	120	.11
121	.57	122	1.92	123	0.00	124	0.00	125	.28
126	0.00	127	.48	128	.57	129	.75	130	0.00
131	.88	132	0.00	133	0.00	134	0.00	135	.06
136	.37	137	.53	138	0.00	139	1.18	140	0.00
141	0.00	142	.02	143	0.00	144	0.00	145	0.00
146	0.00	147	0.00	148	.06	149	0.00	150	0.00
151	.60	152	.15	153	0.00	154	.32	155	0.00
156	0.00	157	0.00	158	0.00	159	0.00	160	0.00
161	.08	162	0.00	163	0.00	164	.12	165	.12
166	1.43	167	1.06	168	0.00	169	.40	170	0.00
171	.22	172	.09	173	1.00	174	0.00	175	.10
176	0.00	177	.78	178	.24				
	-1.0		1.0		-1.0		1.0		
178	0	178	178	8	8				
1	2.74	2	2.77	3	1.92	4	0.0	5	0.38
6	0.0	7	1.15	8	2.00	9	2.46	10	0.0
11	5.77	12	0.0	13	0.77	14	1.08	15	4.17
16	5.54	17	4.62	18	0.0	19	0.0	20	0.77
21	4.23	22	7.86	23	0.43	24	0.31	25	0.15
26	0.0	27	0.0	28	0.0	29	0.0	30	0.12
31	3.32	32	0.0	33	1.47	34	1.15	35	0.23
36	1.62	37	1.54	38	1.08	39	0.77	40	1.13
41	2.11	42	1.47	43	1.47	44	0.69	45	0.77
46	0.23	47	0.77	48	1.11	49	8.96	50	1.15
51	0.38	52	0.0	53	0.31	54	0.0	55	2.00
56	1.75	57	3.76	58	2.31	59	-2.00	60	0.0
61	0.0	62	0.0	63	0.0	64	0.0	65	1.26
66	0.0	67	0.0	68	0.0	69	0.0	70	0.0
71	0.0	72	0.0	73	0.0	74	0.77	75	3.22
76	2.69	77	-16.50	78	0.0	79	0.0	80	0.0
81	0.38	82	0.0	83	0.73	84	1.71	85	0.0
86	0.0	87	0.0	88	0.0	89	0.0	90	0.0
91	1.15	92	0.0	93	1.62	94	0.62	95	5.39
96	-2.50	97	0.0	98	0.0	99	0.0	100	0.0
101	0.38	102	0.0	103	0.98	104	2.45	105	4.90
106	1.47	107	0.0	108	0.77	109	4.23	110	0.62
111	0.0	112	0.69	113	0.0	114	1.92	115	2.45
116	0.31	117	0.31	118	0.77	119	0.77	120	3.08
121	2.93	122	1.46	123	7.58	124	0.0	125	3.85
126	0.31	127	0.15	128	1.92	129	1.92	130	1.54
131	0.77	132	7.35	133	4.90	134	0.38	135	0.0

136	0.38	137	0.38	138	0.0	139	0.0	140	0.0
141	4.90	142	2.23	143	1.15	144	0.92	145	1.15
146	0.0	147	0.0	148	0.38	149	0.0	150	0.69
151	1.77	152	0.0	153	0.15	154	0.0	155	9.80
156	7.59	157	2.99	158	4.68	159	4.53	160	0.0
161	4.31	162	2.36	163	0.0	164	2.34	165	0.23
166	1.62	167	3.46	168	0.77	169	2.16	170	3.54
171	0.31	172	0.0	173	0.31	174	0.31	175	0.0
176	1.08	177	2.69	178	1.85				
1	-.09	2	0.00	3	-.26	4	0.00	5	0.00
6	0.00	7	0.00	8	0.00	9	0.00	10	0.00
11	2.45	12	0.00	13	0.00	14	-.01	15	.02
16	1.08	17	2.13	18	0.00	19	0.00	20	0.00
21	.25	22	0.00	23	0.00	24	0.00	25	1.33
26	0.00	27	.06	28	0.00	29	0.00	30	0.00
31	0.00	32	0.00	33	0.00	34	-.25	35	0.00
36	.04	37	.15	38	0.00	39	0.00	40	0.00
41	.79	42	0.00	43	0.00	44	0.00	45	-.59
46	0.00	47	0.00	48	0.00	49	0.00	50	1.12
51	0.00	52	.01	53	0.00	54	0.00	55	-.28
56	3.77	57	.01	58	.03	59	0.00	60	.32
61	0.00	62	.04	63	-.52	64	-.17	65	-.09
66	.07	67	.31	68	-1.84	69	-.67	70	-.12
71	0.00	72	0.00	73	-.16	74	.28	75	.51
76	0.00	77	.21	78	.27	79	.01	80	1.87
81	-.16	82	.87	83	0.00	84	.04	85	2.90
86	-.48	87	-.31	88	-.62	89	6.86	90	4.63
91	0.00	92	0.00	93	0.00	94	.03	95	.20
96	0.00	97	-.50	98	1.02	99	1.92	100	-.51
101	2.18	102	0.00	103	.14	104	0.00	105	0.00
106	.33	107	.79	108	.37	109	0.00	110	0.00
111	.58	112	-.34	113	1.51	114	1.62	115	.12
116	-.00	117	0.00	118	.58	119	.19	120	1.21
121	2.75	122	.17	123	0.00	124	0.00	125	.21
126	0.00	127	.11	128	.07	129	1.01	130	0.00
131	1.72	132	0.00	133	0.00	134	0.00	135	.26
136	.30	137	.22	138	0.00	139	1.16	140	0.00
141	0.00	142	.17	143	0.00	144	0.00	145	0.00
146	0.00	147	0.00	148	.03	149	0.00	150	0.00
151	1.34	152	.27	153	0.00	154	.54	155	0.00
156	0.00	157	0.00	158	.03	159	0.00	160	0.00
161	.15	162	0.00	163	0.00	164	.05	165	.33
166	-.10	167	-.10	168	0.00	169	-.08	170	0.00
171	.03	172	.04	173	.07	174	0.00	175	.04
176	0.00	177	.11	178	.10				
1	.42	2	0.00	3	1.18	4	0.00	5	0.00
6	0.00	7	0.00	8	0.00	9	0.00	10	0.00
11	3.06	12	0.00	13	0.00	14	.06	15	.04
16	.71	17	2.72	18	0.00	19	0.00	20	0.00
21	.52	22	0.00	23	0.00	24	0.00	25	1.82
26	0.00	27	1.78	28	0.00	29	0.00	30	0.00
31	0.00	32	0.00	33	0.00	34	1.75	35	.52
36	.93	37	.73	38	0.00	39	0.00	40	0.00
41	6.75	42	0.00	43	0.00	44	0.00	45	2.64
46	0.00	47	.51	48	0.00	49	0.00	50	2.81
51	0.00	52	.04	53	0.00	54	0.00	55	1.84
56	2.59	57	0.00	58	.06	59	0.00	60	.57
61	0.00	62	.02	63	2.31	64	1.12	65	.71
66	0.00	67	.04	68	6.14	69	7.79	70	.53
71	0.00	72	0.00	73	.75	74	1.73	75	.57
76	0.00	77	.49	78	3.39	79	.03	80	1.04

81	.54	82	2.17	83	0.00	84	.02	85	.32
86	5.52	87	2.46	88	3.39	89	1.59	90	.88
91	0.00	92	0.00	93	0.00	94	.38	95	.27
96	0.00	97	1.99	98	1.32	99	5.56	100	2.76
101	.82	102	0.00	103	1.59	104	0.00	105	0.00
106	.54	107	.62	108	.56	109	0.00	110	0.00
111	1.59	112	3.22	113	.44	114	.75	115	.09
116	.01	117	0.00	118	.28	119	.10	120	.11
121	.57	122	1.92	123	0.00	124	0.00	125	.28
126	0.00	127	.48	128	.57	129	.75	130	0.00
131	.88	132	0.00	133	0.00	134	0.00	135	.06
136	.37	137	.53	138	0.00	139	1.18	140	0.00
141	0.00	142	.02	143	0.00	144	0.00	145	0.00
146	0.00	147	0.00	148	.06	149	0.00	150	0.00
151	.60	152	.15	153	0.00	154	.32	155	0.00
156	0.00	157	0.00	158	0.00	159	0.00	160	0.00
161	.08	162	0.00	163	0.00	164	.12	165	.12
166	1.43	167	1.06	168	0.00	169	.40	170	0.00
171	.22	172	.09	173	1.00	174	0.00	175	.10
176	0.00	177	.78	178	.24				
	-1.0		1.0		-1.0		1.0		
178	0	178	178	9	9				
1	2.74	2	2.77	3	1.92	4	0.0	5	0.38
6	0.0	7	1.15	8	2.00	9	2.46	10	0.0
11	5.77	12	0.0	13	0.77	14	1.08	15	4.29
16	5.54	17	4.62	18	0.0	19	0.0	20	0.77
21	4.39	22	8.14	23	0.43	24	0.31	25	0.15
26	0.0	27	0.0	28	0.0	29	0.0	30	0.12
31	3.44	32	0.0	33	1.53	34	1.15	35	0.23
36	1.62	37	1.54	38	1.08	39	0.77	40	1.17
41	2.19	42	1.53	43	1.53	44	0.69	45	0.77
46	0.23	47	0.77	48	1.13	49	9.20	50	1.15
51	0.38	52	0.0	53	0.31	54	0.0	55	2.00
56	1.79	57	3.86	58	2.31	59	-2.00	60	0.0
61	0.0	62	0.0	63	0.0	64	0.0	65	1.28
66	0.0	67	0.0	68	0.0	69	0.0	70	0.0
71	0.0	72	0.0	73	0.0	74	0.77	75	3.32
76	2.69	77	-16.50	78	0.0	79	0.0	80	0.0
81	0.38	82	0.0	83	0.76	84	1.78	85	0.0
86	0.0	87	0.0	88	0.0	89	0.0	90	0.0
91	1.15	92	0.0	93	1.62	94	0.62	95	5.39
96	-2.50	97	0.0	98	0.0	99	0.0	100	0.0
101	0.38	102	0.0	103	1.02	104	2.55	105	5.10
106	1.53	107	0.0	108	0.77	109	4.23	110	0.62
111	0.0	112	0.69	113	0.0	114	1.92	115	2.55
116	0.31	117	0.31	118	0.77	119	0.77	120	3.08
121	2.93	122	1.46	123	7.88	124	0.0	125	3.85
126	0.31	127	0.15	128	1.92	129	1.92	130	1.54
131	0.77	132	7.65	133	5.10	134	0.38	135	0.0
136	0.38	137	0.38	138	0.0	139	0.0	140	0.0
141	5.10	142	2.23	143	1.15	144	0.92	145	1.15
146	0.0	147	0.0	148	0.38	149	0.0	150	0.69
151	1.77	152	0.0	153	0.15	154	0.0	155	10.20
156	7.79	157	3.09	158	4.78	159	4.63	160	0.0
161	4.31	162	2.36	163	0.0	164	2.34	165	0.23
166	1.62	167	3.46	168	0.77	169	2.16	170	3.54
171	0.31	172	0.0	173	0.31	174	0.31	175	0.0
176	1.08	177	2.69	178	1.85				
1	-.09	2	0.00	3	-.26	4	0.00	5	0.00
6	0.00	7	0.00	8	0.00	9	0.00	10	0.00
11	2.45	12	0.00	13	0.00	14	-.01	15	.02

16	1.08	17	2.13	18	0.00	19	0.00	20	0.00
21	.25	22	0.00	23	0.00	24	0.00	25	1.33
26	0.00	27	.06	28	0.00	29	0.00	30	0.00
31	0.00	32	0.00	33	0.00	34	-.25	35	0.00
36	.04	37	.15	38	0.00	39	0.00	40	0.00
41	.79	42	0.00	43	0.00	44	0.00	45	-.59
46	0.00	47	0.00	48	0.00	49	0.00	50	1.12
51	0.00	52	.01	53	0.00	54	0.00	55	-.28
56	3.77	57	.01	58	.03	59	0.00	60	.32
61	0.00	62	.04	63	-.52	64	-.17	65	-.09
66	.07	67	.31	68	-1.84	69	-.67	70	-.12
71	0.00	72	0.00	73	-.16	74	.28	75	.51
76	0.00	77	.21	78	.27	79	.01	80	1.87
81	-.16	82	.87	83	0.00	84	.04	85	2.90
86	-.48	87	-.31	88	-.62	89	6.86	90	4.63
91	0.00	92	0.00	93	0.00	94	.03	95	.20
96	0.00	97	-.50	98	1.02	99	1.92	100	-.51
101	2.18	102	0.00	103	.14	104	0.00	105	0.00
106	.33	107	.79	108	.37	109	0.00	110	0.00
111	.58	112	-.34	113	1.51	114	1.62	115	.12
116	-.00	117	0.00	118	.58	119	.19	120	1.21
121	2.75	122	.17	123	0.00	124	0.00	125	.21
126	0.00	127	.11	128	.07	129	1.01	130	0.00
131	1.72	132	0.00	133	0.00	134	0.00	135	.26
136	.30	137	.22	138	0.00	139	1.16	140	0.00
141	0.00	142	.17	143	0.00	144	0.00	145	0.00
146	0.00	147	0.00	148	.03	149	0.00	150	0.00
151	1.34	152	.27	153	0.00	154	.54	155	0.00
156	0.00	157	0.00	158	.03	159	0.00	160	0.00
161	.15	162	0.00	163	0.00	164	.05	165	.33
166	-.10	167	-.10	168	0.00	169	-.08	170	0.00
171	.03	172	.04	173	.07	174	0.00	175	.04
176	0.00	177	.11	178	.10				
1	.42	2	0.00	3	1.18	4	0.00	5	0.00
6	0.00	7	0.00	8	0.00	9	0.00	10	0.00
11	3.06	12	0.00	13	0.00	14	.06	15	.04
16	.71	17	2.72	18	0.00	19	0.00	20	0.00
21	.52	22	0.00	23	0.00	24	0.00	25	1.82
26	0.00	27	1.78	28	0.00	29	0.00	30	0.00
31	0.00	32	0.00	33	0.00	34	1.75	35	.52
36	.93	37	.73	38	0.00	39	0.00	40	0.00
41	6.75	42	0.00	43	0.00	44	0.00	45	2.64
46	0.00	47	.51	48	0.00	49	0.00	50	2.81
51	0.00	52	.04	53	0.00	54	0.00	55	1.84
56	2.59	57	0.00	58	.06	59	0.00	60	.57
61	0.00	62	.02	63	2.31	64	1.12	65	.71
66	0.00	67	.04	68	6.14	69	7.79	70	.53
71	0.00	72	0.00	73	.75	74	1.73	75	.57
76	0.00	77	.49	78	3.39	79	.03	80	1.04
81	.54	82	2.17	83	0.00	84	.02	85	.32
86	5.52	87	2.46	88	3.39	89	1.59	90	.88
91	0.00	92	0.00	93	0.00	94	.38	95	.27
96	0.00	97	1.99	98	1.32	99	5.56	100	2.76
101	.82	102	0.00	103	1.59	104	0.00	105	0.00
106	.54	107	.62	108	.56	109	0.00	110	0.00
111	1.59	112	3.22	113	.44	114	.75	115	.09
116	.01	117	0.00	118	.28	119	.10	120	.11
121	.57	122	1.92	123	0.00	124	0.00	125	.28
126	0.00	127	.48	128	.57	129	.75	130	0.00
131	.88	132	0.00	133	0.00	134	0.00	135	.06
136	.37	137	.53	138	0.00	139	1.18	140	0.00

141	0.00	142	.02	143	0.00	144	0.00	145	0.00
146	0.00	147	0.00	148	.06	149	0.00	150	0.00
151	.60	152	.15	153	0.00	154	.32	155	0.00
156	0.00	157	0.00	158	0.00	159	0.00	160	0.00
161	.08	162	0.00	163	0.00	164	.12	165	.12
166	1.43	167	1.06	168	0.00	169	.40	170	0.00
171	.22	172	.09	173	1.00	174	0.00	175	.10
176	0.00	177	.78	178	.24				
	-1.0		1.0		-1.0		1.0		
178	0	178	178	10	10				
1	2.74	2	2.77	3	1.92	4	0.0	5	0.38
6	0.0	7	1.15	8	2.00	9	2.46	10	0.0
11	5.77	12	0.0	13	0.77	14	1.08	15	4.44
16	5.54	17	4.62	18	0.0	19	0.0	20	0.77
21	4.59	22	8.49	23	0.43	24	0.31	25	0.15
26	0.0	27	0.0	28	0.0	29	0.0	30	0.12
31	3.59	32	0.0	33	1.60	34	1.15	35	0.23
36	1.62	37	1.54	38	1.08	39	0.77	40	1.22
41	2.29	42	1.60	43	1.60	44	0.69	45	0.77
46	0.23	47	0.77	48	1.15	49	9.50	50	1.15
51	0.38	52	0.0	53	0.31	54	0.0	55	2.00
56	1.84	57	3.98	58	2.31	59	-2.00	60	0.0
61	0.0	62	0.0	63	0.0	64	0.0	65	1.30
66	0.0	67	0.0	68	0.0	69	0.0	70	0.0
71	0.0	72	0.0	73	0.0	74	0.77	75	3.44
76	2.69	77	-16.50	78	0.0	79	0.0	80	0.0
81	0.38	82	0.0	83	0.80	84	1.87	85	0.0
86	0.0	87	0.0	88	0.0	89	0.0	90	0.0
91	1.15	92	0.0	93	1.62	94	0.62	95	5.39
96	-2.50	97	0.0	98	0.0	99	0.0	100	0.0
101	0.38	102	0.0	103	1.07	104	2.67	105	5.35
106	1.60	107	0.0	108	0.77	109	4.23	110	0.62
111	0.0	112	0.69	113	0.0	114	1.92	115	2.67
116	0.31	117	0.31	118	0.77	119	0.77	120	3.08
121	2.93	122	1.46	123	8.25	124	0.0	125	3.85
126	0.31	127	0.15	128	1.92	129	1.92	130	1.54
131	0.77	132	8.02	133	5.35	134	0.38	135	0.0
136	0.38	137	0.38	138	0.0	139	0.0	140	0.0
141	5.35	142	2.23	143	1.15	144	0.92	145	1.15
146	0.0	147	0.0	148	0.38	149	0.0	150	0.69
151	1.77	152	0.0	153	0.15	154	0.0	155	10.70
156	8.04	157	3.21	158	4.90	159	4.75	160	0.0
161	4.31	162	2.36	163	0.0	164	2.34	165	0.23
166	1.62	167	3.46	168	0.77	169	2.16	170	3.54
171	0.31	172	0.0	173	0.31	174	0.31	175	0.0
176	1.08	177	2.69	178	1.85				
1	-.09	2	0.00	3	-.26	4	0.00	5	0.00
6	0.00	7	0.00	8	0.00	9	0.00	10	0.00
11	2.45	12	0.00	13	0.00	14	-.01	15	.02
16	1.08	17	2.13	18	0.00	19	0.00	20	0.00
21	.25	22	0.00	23	0.00	24	0.00	25	1.33
26	0.00	27	.06	28	0.00	29	0.00	30	0.00
31	0.00	32	0.00	33	0.00	34	-.25	35	0.00
36	.04	37	.15	38	0.00	39	0.00	40	0.00
41	.79	42	0.00	43	0.00	44	0.00	45	-.59
46	0.00	47	0.00	48	0.00	49	0.00	50	1.12
51	0.00	52	.01	53	0.00	54	0.00	55	-.28
56	3.77	57	.01	58	.03	59	0.00	60	.32
61	0.00	62	.04	63	-.52	64	-.17	65	-.09
66	.07	67	.31	68	-1.84	69	-.67	70	-.12
71	0.00	72	0.00	73	-.16	74	.28	75	.51

76	0.00	77	.21	78	.27	79	.01	80	1.87
81	-.16	82	.87	83	0.00	84	.04	85	2.90
86	-.48	87	-.31	88	-.62	89	6.86	90	4.63
91	0.00	92	0.00	93	0.00	94	.03	95	.20
96	0.00	97	-.50	98	1.02	99	1.92	100	-.51
101	2.18	102	0.00	103	.14	104	0.00	105	0.00
106	.33	107	.79	108	.37	109	0.00	110	0.00
111	.58	112	-.34	113	1.51	114	1.62	115	.12
116	-.00	117	0.00	118	.58	119	.19	120	1.21
121	2.75	122	.17	123	0.00	124	0.00	125	.21
126	0.00	127	.11	128	.07	129	1.01	130	0.00
131	1.72	132	0.00	133	0.00	134	0.00	135	.26
136	.30	137	.22	138	0.00	139	1.16	140	0.00
141	0.00	142	.17	143	0.00	144	0.00	145	0.00
146	0.00	147	0.00	148	.03	149	0.00	150	0.00
151	1.34	152	.27	153	0.00	154	.54	155	0.00
156	0.00	157	0.00	158	.03	159	0.00	160	0.00
161	.15	162	0.00	163	0.00	164	.05	165	.33
166	-.10	167	-.10	168	0.00	169	-.08	170	0.00
171	.03	172	.04	173	.07	174	0.00	175	.04
176	0.00	177	.11	178	.10				
1	.42	2	0.00	3	1.18	4	0.00	5	0.00
6	0.00	7	0.00	8	0.00	9	0.00	10	0.00
11	3.06	12	0.00	13	0.00	14	.06	15	.04
16	.71	17	2.72	18	0.00	19	0.00	20	0.00
21	.52	22	0.00	23	0.00	24	0.00	25	1.82
26	0.00	27	1.78	28	0.00	29	0.00	30	0.00
31	0.00	32	0.00	33	0.00	34	1.75	35	.52
36	.93	37	.73	38	0.00	39	0.00	40	0.00
41	6.75	42	0.00	43	0.00	44	0.00	45	2.64
46	0.00	47	.51	48	0.00	49	0.00	50	2.81
51	0.00	52	.04	53	0.00	54	0.00	55	1.84
56	2.59	57	0.00	58	.06	59	0.00	60	.57
61	0.00	62	.02	63	2.31	64	1.12	65	.71
66	0.00	67	.04	68	6.14	69	7.79	70	.53
71	0.00	72	0.00	73	.75	74	1.73	75	.57
76	0.00	77	.49	78	3.39	79	.03	80	1.04
81	.54	82	2.17	83	0.00	84	.02	85	.32
86	5.52	87	2.46	88	3.39	89	1.59	90	.88
91	0.00	92	0.00	93	0.00	94	.38	95	.27
96	0.00	97	1.99	98	1.32	99	5.56	100	2.76
101	.82	102	0.00	103	1.59	104	0.00	105	0.00
106	.54	107	.62	108	.56	109	0.00	110	0.00
111	1.59	112	3.22	113	.44	114	.75	115	.09
116	.01	117	0.00	118	.28	119	.10	120	.11
121	.57	122	1.92	123	0.00	124	0.00	125	.28
126	0.00	127	.48	128	.57	129	.75	130	0.00
131	.88	132	0.00	133	0.00	134	0.00	135	.06
136	.37	137	.53	138	0.00	139	1.18	140	0.00
141	0.00	142	.02	143	0.00	144	0.00	145	0.00
146	0.00	147	0.00	148	.06	149	0.00	150	0.00
151	.60	152	.15	153	0.00	154	.32	155	0.00
156	0.00	157	0.00	158	0.00	159	0.00	160	0.00
161	.08	162	0.00	163	0.00	164	.12	165	.12
166	1.43	167	1.06	168	0.00	169	.40	170	0.00
171	.22	172	.09	173	1.00	174	0.00	175	.10
176	0.00	177	.78	178	.24				
	-1.0		1.0		-1.0		1.0		
178	0	178	178	11	11				
1	2.74	2	2.77	3	1.92	4	0.0	5	0.38
6	0.0	7	1.15	8	2.00	9	2.46	10	0.0

11	5.77	12	0.0	13	0.77	14	1.08	15	4.59
16	5.54	17	4.62	18	0.0	19	0.0	20	0.77
21	4.79	22	8.84	23	0.43	24	0.31	25	0.15
26	0.0	27	0.0	28	0.0	29	0.0	30	0.12
31	3.74	32	0.0	33	1.68	34	1.15	35	0.23
36	1.62	37	1.54	38	1.08	39	0.77	40	1.27
41	2.39	42	1.68	43	1.68	44	0.69	45	0.77
46	0.23	47	0.77	48	1.18	49	9.80	50	1.15
51	0.38	52	0.0	53	0.31	54	0.0	55	2.00
56	1.89	57	4.11	58	2.31	59	-2.00	60	0.0
61	0.0	62	0.0	63	0.0	64	0.0	65	1.33
66	0.0	67	0.0	68	0.0	69	0.0	70	0.0
71	0.0	72	0.0	73	0.0	74	0.77	75	3.57
76	2.69	77	-16.50	78	0.0	79	0.0	80	0.0
81	0.38	82	0.0	83	0.84	84	1.96	85	0.0
86	0.0	87	0.0	88	0.0	89	0.0	90	0.0
91	1.15	92	0.0	93	1.62	94	0.62	95	5.39
96	-2.50	97	0.0	98	0.0	99	0.0	100	0.0
101	0.38	102	0.0	103	1.12	104	2.80	105	5.60
106	1.68	107	0.0	108	0.77	109	4.23	110	0.62
111	0.0	112	0.69	113	0.0	114	1.92	115	2.80
116	0.31	117	0.31	118	0.77	119	0.77	120	3.08
121	2.93	122	1.46	123	8.63	124	0.0	125	3.85
126	0.31	127	0.15	128	1.92	129	1.92	130	1.54
131	0.77	132	8.40	133	5.60	134	0.38	135	0.0
136	0.38	137	0.38	138	0.0	139	0.0	140	0.0
141	5.60	142	2.23	143	1.15	144	0.92	145	1.15
146	0.0	147	0.0	148	0.38	149	0.0	150	0.69
151	1.77	152	0.0	153	0.15	154	0.0	155	11.20
156	8.29	157	3.34	158	5.03	159	4.88	160	0.0
161	4.31	162	2.36	163	0.0	164	2.34	165	0.23
166	1.62	167	3.46	168	0.77	169	2.16	170	3.54
171	0.31	172	0.0	173	0.31	174	0.31	175	0.0
176	1.08	177	2.69	178	1.85				
1	-.09	2	0.00	3	-.26	4	0.00	5	0.00
6	0.00	7	0.00	8	0.00	9	0.00	10	0.00
11	2.45	12	0.00	13	0.00	14	-.01	15	.02
16	1.08	17	2.13	18	0.00	19	0.00	20	0.00
21	.25	22	0.00	23	0.00	24	0.00	25	1.33
26	0.00	27	.06	28	0.00	29	0.00	30	0.00
31	0.00	32	0.00	33	0.00	34	-.25	35	0.00
36	.04	37	.15	38	0.00	39	0.00	40	0.00
41	.79	42	0.00	43	0.00	44	0.00	45	-.59
46	0.00	47	0.00	48	0.00	49	0.00	50	1.12
51	0.00	52	.01	53	0.00	54	0.00	55	-.28
56	3.77	57	.01	58	.03	59	0.00	60	.32
61	0.00	62	.04	63	-.52	64	-.17	65	-.09
66	.07	67	.31	68	-1.84	69	-.67	70	-.12
71	0.00	72	0.00	73	-.16	74	.28	75	.51
76	0.00	77	.21	78	.27	79	.01	80	1.87
81	-.16	82	.87	83	0.00	84	.04	85	2.90
86	-.48	87	-.31	88	-.62	89	6.86	90	4.63
91	0.00	92	0.00	93	0.00	94	.03	95	.20
96	0.00	97	-.50	98	1.02	99	1.92	100	-.51
101	2.18	102	0.00	103	.14	104	0.00	105	0.00
106	.33	107	.79	108	.37	109	0.00	110	0.00
111	.58	112	-.34	113	1.51	114	1.62	115	.12
116	-.00	117	0.00	118	.58	119	.19	120	1.21
121	2.75	122	.17	123	0.00	124	0.00	125	.21
126	0.00	127	.11	128	.07	129	1.01	130	0.00
131	1.72	132	0.00	133	0.00	134	0.00	135	.26

136	.30	137	.22	138	0.00	139	1.16	140	0.00
141	0.00	142	.17	143	0.00	144	0.00	145	0.00
146	0.00	147	0.00	148	.03	149	0.00	150	0.00
151	1.34	152	.27	153	0.00	154	.54	155	0.00
156	0.00	157	0.00	158	.03	159	0.00	160	0.00
161	.15	162	0.00	163	0.00	164	.05	165	.33
166	-.10	167	-.10	168	0.00	169	-.08	170	0.00
171	.03	172	.04	173	.07	174	0.00	175	.04
176	0.00	177	.11	178	.10				
1	.42	2	0.00	3	1.18	4	0.00	5	0.00
6	0.00	7	0.00	8	0.00	9	0.00	10	0.00
11	3.06	12	0.00	13	0.00	14	.06	15	.04
16	.71	17	2.72	18	0.00	19	0.00	20	0.00
21	.52	22	0.00	23	0.00	24	0.00	25	1.82
26	0.00	27	1.78	28	0.00	29	0.00	30	0.00
31	0.00	32	0.00	33	0.00	34	1.75	35	.52
36	.93	37	.73	38	0.00	39	0.00	40	0.00
41	6.75	42	0.00	43	0.00	44	0.00	45	2.64
46	0.00	47	.51	48	0.00	49	0.00	50	2.81
51	0.00	52	.04	53	0.00	54	0.00	55	1.84
56	2.59	57	0.00	58	.06	59	0.00	60	.57
61	0.00	62	.02	63	2.31	64	1.12	65	.71
66	0.00	67	.04	68	6.14	69	7.79	70	.53
71	0.00	72	0.00	73	.75	74	1.73	75	.57
76	0.00	77	.49	78	3.39	79	.03	80	1.04
81	.54	82	2.17	83	0.00	84	.02	85	.32
86	5.52	87	2.46	88	3.39	89	1.59	90	.88
91	0.00	92	0.00	93	0.00	94	.38	95	.27
96	0.00	97	1.99	98	1.32	99	5.56	100	2.76
101	.82	102	0.00	103	1.59	104	0.00	105	0.00
106	.54	107	.62	108	.56	109	0.00	110	0.00
111	1.59	112	3.22	113	.44	114	.75	115	.09
116	.01	117	0.00	118	.28	119	.10	120	.11
121	.57	122	1.92	123	0.00	124	0.00	125	.28
126	0.00	127	.48	128	.57	129	.75	130	0.00
131	.88	132	0.00	133	0.00	134	0.00	135	.06
136	.37	137	.53	138	0.00	139	1.18	140	0.00
141	0.00	142	.02	143	0.00	144	0.00	145	0.00
146	0.00	147	0.00	148	.06	149	0.00	150	0.00
151	.60	152	.15	153	0.00	154	.32	155	0.00
156	0.00	157	0.00	158	0.00	159	0.00	160	0.00
161	.08	162	0.00	163	0.00	164	.12	165	.12
166	1.43	167	1.06	168	0.00	169	.40	170	0.00
171	.22	172	.09	173	1.00	174	0.00	175	.10
176	0.00	177	.78	178	.24				
	-1.0		1.0		-1.0		1.0		
178	0	178	178	12	12				
1	2.74	2	2.77	3	1.92	4	0.0	5	0.38
6	0.0	7	1.15	8	2.00	9	2.46	10	0.0
11	5.77	12	0.0	13	0.77	14	1.08	15	4.74
16	5.54	17	4.62	18	0.0	19	0.0	20	0.77
21	4.99	22	9.19	23	0.43	24	0.31	25	0.15
26	0.0	27	0.0	28	0.0	29	0.0	30	0.12
31	3.89	32	0.0	33	1.75	34	1.15	35	0.23
36	1.62	37	1.54	38	1.08	39	0.77	40	1.32
41	2.49	42	1.75	43	1.75	44	0.69	45	0.77
46	0.23	47	0.77	48	1.20	49	10.10	50	1.15
51	0.38	52	0.0	53	0.31	54	0.0	55	2.00
56	1.94	57	4.23	58	2.31	59	-2.00	60	0.0
61	0.0	62	0.0	63	0.0	64	0.0	65	1.35
66	0.0	67	0.0	68	0.0	69	0.0	70	0.0

71	0.0	72	0.0	73	0.0	74	0.77	75	3.69		
76	2.69	77	-16.50	78	0.0	79	0.0	80	0.0		
81	0.38	82	0.0	83	0.88	84	2.05	85	0.0		
86	0.0	87	0.0	88	0.0	89	0.0	90	0.0		
91	1.15	92	0.0	93	1.62	94	0.62	95	5.39		
96	-2.50	97	0.0	98	0.0	99	0.0	100	0.0		
101	0.38	102	0.0	103	1.17	104	2.92	105	5.85		
106	1.75	107	0.0	108	0.77	109	4.23	110	0.62		
111	0.0	112	0.69	113	0.0	114	1.92	115	2.92		
116	0.31	117	0.31	118	0.77	119	0.77	120	3.08		
121	2.93	122	1.46	123	9.00	124	0.0	125	3.85		
126	0.31	127	0.15	128	1.92	129	1.92	130	1.54		
131	0.77	132	8.77	133	5.85	134	0.38	135	0.0		
136	0.38	137	0.38	138	0.0	139	0.0	140	0.0		
141	5.85	142	2.23	143	1.15	144	0.92	145	1.15		
146	0.0	147	0.0	148	0.38	149	0.0	150	0.69		
151	1.77	152	0.0	153	0.15	154	0.0	155	11.70		
156	8.54	157	3.46	158	5.15	159	5.00	160	0.0		
161	4.31	162	2.36	163	0.0	164	2.34	165	0.23		
166	1.62	167	3.46	168	0.77	169	2.16	170	3.54		
171	0.31	172	0.0	173	0.31	174	0.31	175	0.0		
176	1.08	177	2.69	178	1.85						
1	-.09	2	0.00	3	-.26	4	0.00	5	0.00		
6	0.00	7	0.00	8	0.00	9	0.00	10	0.00		
11	2.45	12	0.00	13	0.00	14	-.01	15	.02		
16	1.08	17	2.13	18	0.00	19	0.00	20	0.00		
21	.25	22	0.00	23	0.00	24	0.00	25	1.33		
26	0.00	27	.06	28	0.00	29	0.00	30	0.00		
31	0.00	32	0.00	33	0.00	34	-.25	35	0.00		
36	.04	37	.15	38	0.00	39	0.00	40	0.00		
41	.79	42	0.00	43	0.00	44	0.00	45	-.59		
46	0.00	47	0.00	48	0.00	49	0.00	50	1.12		
51	0.00	52	.01	53	0.00	54	0.00	55	-.28		
56	3.77	57	.01	58	.03	59	0.00	60	.32		
61	0.00	62	.04	63	-.52	64	-.17	65	-.09		
66	.07	67	.31	68	-1.84	69	-.67	70	-.12		
71	0.00	72	0.00	73	-.16	74	.28	75	.51		
76	0.00	77	.21	78	.27	79	.01	80	1.87		
81	-.16	82	.87	83	0.00	84	.04	85	2.90		
86	-.48	87	-.31	88	-.62	89	6.86	90	4.63		
91	0.00	92	0.00	93	0.00	94	.03	95	.20		
96	0.00	97	-.50	98	1.02	99	1.92	100	-.51		
101	2.18	102	0.00	103	.14	104	0.00	105	0.00		
106	.33	107	.79	108	.37	109	0.00	110	0.00		
111	.58	112	-.34	113	1.51	114	1.62	115	.12		
116	-.00	117	0.00	118	.58	119	.19	120	1.21		
121	2.75	122	.17	123	0.00	124	0.00	125	.21		
126	0.00	127	.11	128	.07	129	1.01	130	0.00		
131	1.72	132	0.00	133	0.00	134	0.00	135	.26		
136	.30	137	.22	138	0.00	139	1.16	140	0.00		
141	0.00	142	.17	143	0.00	144	0.00	145	0.00		
146	0.00	147	0.00	148	.03	149	0.00	150	0.00		
151	1.34	152	.27	153	0.00	154	.54	155	0.00		
156	0.00	157	0.00	158	.03	159	0.00	160	0.00		
161	.15	162	0.00	163	0.00	164	.05	165	.33		
166	-.10	167	-.10	168	0.00	169	-.08	170	0.00		
171	.03	172	.04	173	.07	174	0.00	175	.04		
176	0.00	177	.11	178	.10						
1	.42	2	0.00	3	1.18	4	0.00	5	0.00		
6	0.00	7	0.00	8	0.00	9	0.00	10	0.00		
11	3.06	12	0.00	13	0.00	14	.06	15	.04		

16	.71	17	2.72	18	0.00	19	0.00	20	0.00
21	.52	22	0.00	23	0.00	24	0.00	25	1.82
26	0.00	27	1.78	28	0.00	29	0.00	30	0.00
31	0.00	32	0.00	33	0.00	34	1.75	35	.52
36	.93	37	.73	38	0.00	39	0.00	40	0.00
41	6.75	42	0.00	43	0.00	44	0.00	45	2.64
46	0.00	47	.51	48	0.00	49	0.00	50	2.81
51	0.00	52	.04	53	0.00	54	0.00	55	1.84
56	2.59	57	0.00	58	.06	59	0.00	60	.57
61	0.00	62	.02	63	2.31	64	1.12	65	.71
66	0.00	67	.04	68	6.14	69	7.79	70	.53
71	0.00	72	0.00	73	.75	74	1.73	75	.57
76	0.00	77	.49	78	3.39	79	.03	80	1.04
81	.54	82	2.17	83	0.00	84	.02	85	.32
86	5.52	87	2.46	88	3.39	89	1.59	90	.88
91	0.00	92	0.00	93	0.00	94	.38	95	.27
96	0.00	97	1.99	98	1.32	99	5.56	100	2.76
101	.82	102	0.00	103	1.59	104	0.00	105	0.00
106	.54	107	.62	108	.56	109	0.00	110	0.00
111	1.59	112	3.22	113	.44	114	.75	115	.09
116	.01	117	0.00	118	.28	119	.10	120	.11
121	.57	122	1.92	123	0.00	124	0.00	125	.28
126	0.00	127	.48	128	.57	129	.75	130	0.00
131	.88	132	0.00	133	0.00	134	0.00	135	.06
136	.37	137	.53	138	0.00	139	1.18	140	0.00
141	0.00	142	.02	143	0.00	144	0.00	145	0.00
146	0.00	147	0.00	148	.06	149	0.00	150	0.00
151	.60	152	.15	153	0.00	154	.32	155	0.00
156	0.00	157	0.00	158	0.00	159	0.00	160	0.00
161	.08	162	0.00	163	0.00	164	.12	165	.12
166	1.43	167	1.06	168	0.00	169	.40	170	0.00
171	.22	172	.09	173	1.00	174	0.00	175	.10
176	0.00	177	.78	178	.24				
	-1.0		1.0		-1.0		1.0		
178	0	178	178	13	13				
1	2.74	2	2.77	3	1.92	4	0.0	5	0.38
6	0.0	7	1.15	8	2.00	9	2.46	10	0.0
11	5.77	12	0.0	13	0.77	14	1.08	15	4.89
16	5.54	17	4.62	18	0.0	19	0.0	20	0.77
21	5.19	22	9.54	23	0.43	24	0.31	25	0.15
26	0.0	27	0.0	28	0.0	29	0.0	30	0.12
31	4.04	32	0.0	33	1.83	34	1.15	35	0.23
36	1.62	37	1.54	38	1.08	39	0.77	40	1.37
41	2.59	42	1.83	43	1.83	44	0.69	45	0.77
46	0.23	47	0.77	48	1.23	49	10.40	50	1.15
51	0.38	52	0.0	53	0.31	54	0.0	55	2.00
56	1.99	57	4.36	58	2.31	59	-2.00	60	0.0
61	0.0	62	0.0	63	0.0	64	0.0	65	1.38
66	0.0	67	0.0	68	0.0	69	0.0	70	0.0
71	0.0	72	0.0	73	0.0	74	0.77	75	3.82
76	2.69	77	-16.50	78	0.0	79	0.0	80	0.0
81	0.38	82	0.0	83	0.91	84	2.13	85	0.0
86	0.0	87	0.0	88	0.0	89	0.0	90	0.0
91	1.15	92	0.0	93	1.62	94	0.62	95	5.39
96	-2.50	97	0.0	98	0.0	99	0.0	100	0.0
101	0.38	102	0.0	103	1.22	104	3.05	105	6.10
106	1.83	107	0.0	108	0.77	109	4.23	110	0.62
111	0.0	112	0.69	113	0.0	114	1.92	115	3.05
116	0.31	117	0.31	118	0.77	119	0.77	120	3.08
121	2.93	122	1.46	123	9.38	124	0.0	125	3.85
126	0.31	127	0.15	128	1.92	129	1.92	130	1.54

131	0.77	132	9.15	133	6.10	134	0.38	135	0.0
136	0.38	137	0.38	138	0.0	139	0.0	140	0.0
141	6.10	142	2.23	143	1.15	144	0.92	145	1.15
146	0.0	147	0.0	148	0.38	149	0.0	150	0.69
151	1.77	152	0.0	153	0.15	154	0.0	155	12.20
156	8.79	157	3.59	158	5.28	159	5.13	160	0.0
161	4.31	162	2.36	163	0.0	164	2.34	165	0.23
166	1.62	167	3.46	168	0.77	169	2.16	170	3.54
171	0.31	172	0.0	173	0.31	174	0.31	175	0.0
176	1.08	177	2.69	178	1.85				
1	-.09	2	0.00	3	-.26	4	0.00	5	0.00
6	0.00	7	0.00	8	0.00	9	0.00	10	0.00
11	2.45	12	0.00	13	0.00	14	-.01	15	.02
16	1.08	17	2.13	18	0.00	19	0.00	20	0.00
21	.25	22	0.00	23	0.00	24	0.00	25	1.33
26	0.00	27	.06	28	0.00	29	0.00	30	0.00
31	0.00	32	0.00	33	0.00	34	-.25	35	0.00
36	.04	37	.15	38	0.00	39	0.00	40	0.00
41	.79	42	0.00	43	0.00	44	0.00	45	-.59
46	0.00	47	0.00	48	0.00	49	0.00	50	1.12
51	0.00	52	.01	53	0.00	54	0.00	55	-.28
56	3.77	57	.01	58	.03	59	0.00	60	.32
61	0.00	62	.04	63	-.52	64	-.17	65	-.09
66	.07	67	.31	68	-1.84	69	-.67	70	-.12
71	0.00	72	0.00	73	-.16	74	.28	75	.51
76	0.00	77	.21	78	.27	79	.01	80	1.87
81	-.16	82	.87	83	0.00	84	.04	85	2.90
86	-.48	87	-.31	88	-.62	89	6.86	90	4.63
91	0.00	92	0.00	93	0.00	94	.03	95	.20
96	0.00	97	-.50	98	1.02	99	1.92	100	-.51
101	2.18	102	0.00	103	.14	104	0.00	105	0.00
106	.33	107	.79	108	.37	109	0.00	110	0.00
111	.58	112	-.34	113	1.51	114	1.62	115	.12
116	-.00	117	0.00	118	.58	119	.19	120	1.21
121	2.75	122	.17	123	0.00	124	0.00	125	.21
126	0.00	127	.11	128	.07	129	1.01	130	0.00
131	1.72	132	0.00	133	0.00	134	0.00	135	.26
136	.30	137	.22	138	0.00	139	1.16	140	0.00
141	0.00	142	.17	143	0.00	144	0.00	145	0.00
146	0.00	147	0.00	148	.03	149	0.00	150	0.00
151	1.34	152	.27	153	0.00	154	.54	155	0.00
156	0.00	157	0.00	158	.03	159	0.00	160	0.00
161	.15	162	0.00	163	0.00	164	.05	165	.33
166	-.10	167	-.10	168	0.00	169	-.08	170	0.00
171	.03	172	.04	173	.07	174	0.00	175	.04
176	0.00	177	.11	178	.10				
1	.42	2	0.00	3	1.18	4	0.00	5	0.00
6	0.00	7	0.00	8	0.00	9	0.00	10	0.00
11	3.06	12	0.00	13	0.00	14	.06	15	.04
16	.71	17	2.72	18	0.00	19	0.00	20	0.00
21	.52	22	0.00	23	0.00	24	0.00	25	1.82
26	0.00	27	1.78	28	0.00	29	0.00	30	0.00
31	0.00	32	0.00	33	0.00	34	1.75	35	.52
36	.93	37	.73	38	0.00	39	0.00	40	0.00
41	6.75	42	0.00	43	0.00	44	0.00	45	2.64
46	0.00	47	.51	48	0.00	49	0.00	50	2.81
51	0.00	52	.04	53	0.00	54	0.00	55	1.84
56	2.59	57	0.00	58	.06	59	0.00	60	.57
61	0.00	62	.02	63	2.31	64	1.12	65	.71
66	0.00	67	.04	68	6.14	69	7.79	70	.53
71	0.00	72	0.00	73	.75	74	1.73	75	.57

76	0.00	77	.49	78	3.39	79	.03	80	1.04
81	.54	82	2.17	83	0.00	84	.02	85	.32
86	5.52	87	2.46	88	3.39	89	1.59	90	.88
91	0.00	92	0.00	93	0.00	94	.38	95	.27
96	0.00	97	1.99	98	1.32	99	5.56	100	2.76
101	.82	102	0.00	103	1.59	104	0.00	105	0.00
106	.54	107	.62	108	.56	109	0.00	110	0.00
111	1.59	112	3.22	113	.44	114	.75	115	.09
116	.01	117	0.00	118	.28	119	.10	120	.11
121	.57	122	1.92	123	0.00	124	0.00	125	.28
126	0.00	127	.48	128	.57	129	.75	130	0.00
131	.88	132	0.00	133	0.00	134	0.00	135	.06
136	.37	137	.53	138	0.00	139	1.18	140	0.00
141	0.00	142	.02	143	0.00	144	0.00	145	0.00
146	0.00	147	0.00	148	.06	149	0.00	150	0.00
151	.60	152	.15	153	0.00	154	.32	155	0.00
156	0.00	157	0.00	158	0.00	159	0.00	160	0.00
161	.08	162	0.00	163	0.00	164	.12	165	.12
166	1.43	167	1.06	168	0.00	169	.40	170	0.00
171	.22	172	.09	173	1.00	174	0.00	175	.10
176	0.00	177	.78	178	.24				
	-1.0		1.0		-1.0		1.0		
178	0	178	178	14	14				
1	2.74	2	2.77	3	1.92	4	0.0	5	0.38
6	0.0	7	1.15	8	2.00	9	2.46	10	0.0
11	5.77	12	0.0	13	0.77	14	1.08	15	5.07
16	5.54	17	4.62	18	0.0	19	0.0	20	0.77
21	5.43	22	9.96	23	0.43	24	0.31	25	0.15
26	0.0	27	0.0	28	0.0	29	0.0	30	0.12
31	4.22	32	0.0	33	1.92	34	1.15	35	0.23
36	1.62	37	1.54	38	1.08	39	0.77	40	1.43
41	2.71	42	1.92	43	1.92	44	0.69	45	0.77
46	0.23	47	0.77	48	1.26	49	10.76	50	1.15
51	0.38	52	0.0	53	0.31	54	0.0	55	2.00
56	2.05	57	4.51	58	2.31	59	-2.00	60	0.0
61	0.0	62	0.0	63	0.0	64	0.0	65	1.41
66	0.0	67	0.0	68	0.0	69	0.0	70	0.0
71	0.0	72	0.0	73	0.0	74	0.77	75	3.97
76	2.69	77	-16.50	78	0.0	79	0.0	80	0.0
81	0.38	82	0.0	83	0.96	84	2.24	85	0.0
86	0.0	87	0.0	88	0.0	89	0.0	90	0.0
91	1.15	92	0.0	93	1.62	94	0.62	95	5.39
96	-2.50	97	0.0	98	0.0	99	0.0	100	0.0
101	0.38	102	0.0	103	1.28	104	3.20	105	6.40
106	1.92	107	0.0	108	0.77	109	4.23	110	0.62
111	0.0	112	0.69	113	0.0	114	1.92	115	3.20
116	0.31	117	0.31	118	0.77	119	0.77	120	3.08
121	2.93	122	1.46	123	9.83	124	0.0	125	3.85
126	0.31	127	0.15	128	1.92	129	1.92	130	1.54
131	0.77	132	9.60	133	6.40	134	0.38	135	0.0
136	0.38	137	0.38	138	0.0	139	0.0	140	0.0
141	6.40	142	2.23	143	1.15	144	0.92	145	1.15
146	0.0	147	0.0	148	0.38	149	0.0	150	0.69
151	1.77	152	0.0	153	0.15	154	0.0	155	12.80
156	9.09	157	3.74	158	5.43	159	5.28	160	0.0
161	4.31	162	2.36	163	0.0	164	2.34	165	0.23
166	1.62	167	3.46	168	0.77	169	2.16	170	3.54
171	0.31	172	0.0	173	0.31	174	0.31	175	0.0
176	1.08	177	2.69	178	1.85				
1	-.09	2	0.00	3	-.26	4	0.00	5	0.00
6	0.00	7	0.00	8	0.00	9	0.00	10	0.00

11	2.45	12	0.00	13	0.00	14	-.01	15	.02
16	1.08	17	2.13	18	0.00	19	0.00	20	0.00
21	.25	22	0.00	23	0.00	24	0.00	25	1.33
26	0.00	27	.06	28	0.00	29	0.00	30	0.00
31	0.00	32	0.00	33	0.00	34	-.25	35	0.00
36	.04	37	.15	38	0.00	39	0.00	40	0.00
41	.79	42	0.00	43	0.00	44	0.00	45	-.59
46	0.00	47	0.00	48	0.00	49	0.00	50	1.12
51	0.00	52	.01	53	0.00	54	0.00	55	-.28
56	3.77	57	.01	58	.03	59	0.00	60	.32
61	0.00	62	.04	63	-.52	64	-.17	65	-.09
66	.07	67	.31	68	-1.84	69	-.67	70	-.12
71	0.00	72	0.00	73	-.16	74	.28	75	.51
76	0.00	77	.21	78	.27	79	.01	80	1.87
81	-.16	82	.87	83	0.00	84	.04	85	2.90
86	-.48	87	-.31	88	-.62	89	6.86	90	4.63
91	0.00	92	0.00	93	0.00	94	.03	95	.20
96	0.00	97	-.50	98	1.02	99	1.92	100	-.51
101	2.18	102	0.00	103	.14	104	0.00	105	0.00
106	.33	107	.79	108	.37	109	0.00	110	0.00
111	.58	112	-.34	113	1.51	114	1.62	115	.12
116	-.00	117	0.00	118	.58	119	.19	120	1.21
121	2.75	122	.17	123	0.00	124	0.00	125	.21
126	0.00	127	.11	128	.07	129	1.01	130	0.00
131	1.72	132	0.00	133	0.00	134	0.00	135	.26
136	.30	137	.22	138	0.00	139	1.16	140	0.00
141	0.00	142	.17	143	0.00	144	0.00	145	0.00
146	0.00	147	0.00	148	.03	149	0.00	150	0.00
151	1.34	152	.27	153	0.00	154	.54	155	0.00
156	0.00	157	0.00	158	.03	159	0.00	160	0.00
161	.15	162	0.00	163	0.00	164	.05	165	.33
166	-.10	167	-.10	168	0.00	169	-.08	170	0.00
171	.03	172	.04	173	.07	174	0.00	175	.04
176	0.00	177	.11	178	.10				
1	.42	2	0.00	3	1.18	4	0.00	5	0.00
6	0.00	7	0.00	8	0.00	9	0.00	10	0.00
11	3.06	12	0.00	13	0.00	14	.06	15	.04
16	.71	17	2.72	18	0.00	19	0.00	20	0.00
21	.52	22	0.00	23	0.00	24	0.00	25	1.82
26	0.00	27	1.78	28	0.00	29	0.00	30	0.00
31	0.00	32	0.00	33	0.00	34	1.75	35	.52
36	.93	37	.73	38	0.00	39	0.00	40	0.00
41	6.75	42	0.00	43	0.00	44	0.00	45	2.64
46	0.00	47	.51	48	0.00	49	0.00	50	2.81
51	0.00	52	.04	53	0.00	54	0.00	55	1.84
56	2.59	57	0.00	58	.06	59	0.00	60	.57
61	0.00	62	.02	63	2.31	64	1.12	65	.71
66	0.00	67	.04	68	6.14	69	7.79	70	.53
71	0.00	72	0.00	73	.75	74	1.73	75	.57
76	0.00	77	.49	78	3.39	79	.03	80	1.04
81	.54	82	2.17	83	0.00	84	.02	85	.32
86	5.52	87	2.46	88	3.39	89	1.59	90	.88
91	0.00	92	0.00	93	0.00	94	.38	95	.27
96	0.00	97	1.99	98	1.32	99	5.56	100	2.76
101	.82	102	0.00	103	1.59	104	0.00	105	0.00
106	.54	107	.62	108	.56	109	0.00	110	0.00
111	1.59	112	3.22	113	.44	114	.75	115	.09
116	.01	117	0.00	118	.28	119	.10	120	.11
121	.57	122	1.92	123	0.00	124	0.00	125	.28
126	0.00	127	.48	128	.57	129	.75	130	0.00
131	.88	132	0.00	133	0.00	134	0.00	135	.06

136	.37	137	.53	138	0.00	139	1.18	140	0.00
141	0.00	142	.02	143	0.00	144	0.00	145	0.00
146	0.00	147	0.00	148	.06	149	0.00	150	0.00
151	.60	152	.15	153	0.00	154	.32	155	0.00
156	0.00	157	0.00	158	0.00	159	0.00	160	0.00
161	.08	162	0.00	163	0.00	164	.12	165	.12
166	1.43	167	1.06	168	0.00	169	.40	170	0.00
171	.22	172	.09	173	1.00	174	0.00	175	.10
176	0.00	177	.78	178	.24				
	-1.0		1.0		-1.0		1.0		
178	0	178	178	15	15				
1	2.74	2	2.77	3	1.92	4	0.0	5	0.38
6	0.0	7	1.15	8	2.00	9	2.46	10	0.0
11	5.77	12	0.0	13	0.77	14	1.08	15	5.25
16	5.54	17	4.62	18	0.0	19	0.0	20	0.77
21	5.67	22	10.38	23	0.43	24	0.31	25	0.15
26	0.0	27	0.0	28	0.0	29	0.0	30	0.12
31	4.40	32	0.0	33	2.01	34	1.15	35	0.23
36	1.62	37	1.54	38	1.08	39	0.77	40	1.49
41	2.83	42	2.01	43	2.01	44	0.69	45	0.77
46	0.23	47	0.77	48	1.29	49	11.12	50	1.15
51	0.38	52	0.0	53	0.31	54	0.0	55	2.00
56	2.11	57	4.66	58	2.31	59	-2.00	60	0.0
61	0.0	62	0.0	63	0.0	64	0.0	65	1.44
66	0.0	67	0.0	68	0.0	69	0.0	70	0.0
71	0.0	72	0.0	73	0.0	74	0.77	75	4.12
76	2.69	77	-16.50	78	0.0	79	0.0	80	0.0
81	0.38	82	0.0	83	1.00	84	2.34	85	0.0
86	0.0	87	0.0	88	0.0	89	0.0	90	0.0
91	1.15	92	0.0	93	1.62	94	0.62	95	5.39
96	-2.50	97	0.0	98	0.0	99	0.0	100	0.0
101	0.38	102	0.0	103	1.34	104	3.35	105	6.70
106	2.01	107	0.0	108	0.77	109	4.23	110	0.62
111	0.0	112	0.69	113	0.0	114	1.92	115	3.35
116	0.31	117	0.31	118	0.77	119	0.77	120	3.08
121	2.93	122	1.46	123	10.28	124	0.0	125	3.85
126	0.31	127	0.15	128	1.92	129	1.92	130	1.54
131	0.77	132	10.05	133	6.70	134	0.38	135	0.0
136	0.38	137	0.38	138	0.0	139	0.0	140	0.0
141	6.70	142	2.23	143	1.15	144	0.92	145	1.15
146	0.0	147	0.0	148	0.38	149	0.0	150	0.69
151	1.77	152	0.0	153	0.15	154	0.0	155	13.40
156	9.39	157	3.89	158	5.58	159	5.43	160	0.0
161	4.31	162	2.36	163	0.0	164	2.34	165	0.23
166	1.62	167	3.46	168	0.77	169	2.16	170	3.54
171	0.31	172	0.0	173	0.31	174	0.31	175	0.0
176	1.08	177	2.69	178	1.85				
1	-.09	2	0.00	3	-.26	4	0.00	5	0.00
6	0.00	7	0.00	8	0.00	9	0.00	10	0.00
11	2.45	12	0.00	13	0.00	14	-.01	15	.02
16	1.08	17	2.13	18	0.00	19	0.00	20	0.00
21	.25	22	0.00	23	0.00	24	0.00	25	1.33
26	0.00	27	.06	28	0.00	29	0.00	30	0.00
31	0.00	32	0.00	33	0.00	34	-.25	35	0.00
36	.04	37	.15	38	0.00	39	0.00	40	0.00
41	.79	42	0.00	43	0.00	44	0.00	45	-.59
46	0.00	47	0.00	48	0.00	49	0.00	50	1.12
51	0.00	52	.01	53	0.00	54	0.00	55	-.28
56	3.77	57	.01	58	.03	59	0.00	60	.32
61	0.00	62	.04	63	-.52	64	-.17	65	-.09
66	.07	67	.31	68	-1.84	69	-.67	70	-.12

71	0.00	72	0.00	73	-.16	74	.28	75	.51
76	0.00	77	.21	78	.27	79	.01	80	1.87
81	-.16	82	.87	83	0.00	84	.04	85	2.90
86	-.48	87	-.31	88	-.62	89	6.86	90	4.63
91	0.00	92	0.00	93	0.00	94	.03	95	.20
96	0.00	97	-.50	98	1.02	99	1.92	100	-.51
101	2.18	102	0.00	103	.14	104	0.00	105	0.00
106	.33	107	.79	108	.37	109	0.00	110	0.00
111	.58	112	-.34	113	1.51	114	1.62	115	.12
116	-.00	117	0.00	118	.58	119	.19	120	1.21
121	2.75	122	.17	123	0.00	124	0.00	125	.21
126	0.00	127	.11	128	.07	129	1.01	130	0.00
131	1.72	132	0.00	133	0.00	134	0.00	135	.26
136	.30	137	.22	138	0.00	139	1.16	140	0.00
141	0.00	142	.17	143	0.00	144	0.00	145	0.00
146	0.00	147	0.00	148	.03	149	0.00	150	0.00
151	1.34	152	.27	153	0.00	154	.54	155	0.00
156	0.00	157	0.00	158	.03	159	0.00	160	0.00
161	.15	162	0.00	163	0.00	164	.05	165	.33
166	-.10	167	-.10	168	0.00	169	-.08	170	0.00
171	.03	172	.04	173	.07	174	0.00	175	.04
176	0.00	177	.11	178	.10				
1	.42	2	0.00	3	1.18	4	0.00	5	0.00
6	0.00	7	0.00	8	0.00	9	0.00	10	0.00
11	3.06	12	0.00	13	0.00	14	.06	15	.04
16	.71	17	2.72	18	0.00	19	0.00	20	0.00
21	.52	22	0.00	23	0.00	24	0.00	25	1.82
26	0.00	27	1.78	28	0.00	29	0.00	30	0.00
31	0.00	32	0.00	33	0.00	34	1.75	35	.52
36	.93	37	.73	38	0.00	39	0.00	40	0.00
41	6.75	42	0.00	43	0.00	44	0.00	45	2.64
46	0.00	47	.51	48	0.00	49	0.00	50	2.81
51	0.00	52	.04	53	0.00	54	0.00	55	1.84
56	2.59	57	0.00	58	.06	59	0.00	60	.57
61	0.00	62	.02	63	2.31	64	1.12	65	.71
66	0.00	67	.04	68	6.14	69	7.79	70	.53
71	0.00	72	0.00	73	.75	74	1.73	75	.57
76	0.00	77	.49	78	3.39	79	.03	80	1.04
81	.54	82	2.17	83	0.00	84	.02	85	.32
86	5.52	87	2.46	88	3.39	89	1.59	90	.88
91	0.00	92	0.00	93	0.00	94	.38	95	.27
96	0.00	97	1.99	98	1.32	99	5.56	100	2.76
101	.82	102	0.00	103	1.59	104	0.00	105	0.00
106	.54	107	.62	108	.56	109	0.00	110	0.00
111	1.59	112	3.22	113	.44	114	.75	115	.09
116	.01	117	0.00	118	.28	119	.10	120	.11
121	.57	122	1.92	123	0.00	124	0.00	125	.28
126	0.00	127	.48	128	.57	129	.75	130	0.00
131	.88	132	0.00	133	0.00	134	0.00	135	.06
136	.37	137	.53	138	0.00	139	1.18	140	0.00
141	0.00	142	.02	143	0.00	144	0.00	145	0.00
146	0.00	147	0.00	148	.06	149	0.00	150	0.00
151	.60	152	.15	153	0.00	154	.32	155	0.00
156	0.00	157	0.00	158	0.00	159	0.00	160	0.00
161	.08	162	0.00	163	0.00	164	.12	165	.12
166	1.43	167	1.06	168	0.00	169	.40	170	0.00
171	.22	172	.09	173	1.00	174	0.00	175	.10
176	0.00	177	.78	178	.24				
	-1.0		1.0		-1.0		1.0		
178	0	178	178	16	16				
1	2.74	2	2.77	3	1.92	4	0.0	5	0.38

6	0.0	7	1.15	8	2.00	9	2.46	10	0.0
11	5.77	12	0.0	13	0.77	14	1.08	15	5.43
16	5.54	17	4.62	18	0.0	19	0.0	20	0.77
21	5.91	22	10.80	23	0.43	24	0.31	25	0.15
26	0.0	27	0.0	28	0.0	29	0.0	30	0.12
31	4.58	32	0.0	33	2.10	34	1.15	35	0.23
36	1.62	37	1.54	38	1.08	39	0.77	40	1.55
41	2.95	42	2.10	43	2.10	44	0.69	45	0.77
46	0.23	47	0.77	48	1.32	49	11.48	50	1.15
51	0.38	52	0.0	53	0.31	54	0.0	55	2.00
56	2.17	57	4.81	58	2.31	59	-2.00	60	0.0
61	0.0	62	0.0	63	0.0	64	0.0	65	1.47
66	0.0	67	0.0	68	0.0	69	0.0	70	0.0
71	0.0	72	0.0	73	0.0	74	0.77	75	4.27
76	2.69	77	-16.50	78	0.0	79	0.0	80	0.0
81	0.38	82	0.0	83	1.05	84	2.45	85	0.0
86	0.0	87	0.0	88	0.0	89	0.0	90	0.0
91	1.15	92	0.0	93	1.62	94	0.62	95	5.39
96	-2.50	97	0.0	98	0.0	99	0.0	100	0.0
101	0.38	102	0.0	103	1.40	104	3.50	105	7.00
106	2.10	107	0.0	108	0.77	109	4.23	110	0.62
111	0.0	112	0.69	113	0.0	114	1.92	115	3.50
116	0.31	117	0.31	118	0.77	119	0.77	120	3.08
121	2.93	122	1.46	123	10.73	124	0.0	125	3.85
126	0.31	127	0.15	128	1.92	129	1.92	130	1.54
131	0.77	132	10.50	133	7.00	134	0.38	135	0.0
136	0.38	137	0.38	138	0.0	139	0.0	140	0.0
141	7.00	142	2.23	143	1.15	144	0.92	145	1.15
146	0.0	147	0.0	148	0.38	149	0.0	150	0.69
151	1.77	152	0.0	153	0.15	154	0.0	155	14.00
156	9.69	157	4.04	158	5.73	159	5.58	160	0.0
161	4.31	162	2.36	163	0.0	164	2.34	165	0.23
166	1.62	167	3.46	168	0.77	169	2.16	170	3.54
171	0.31	172	0.0	173	0.31	174	0.31	175	0.0
176	1.08	177	2.69	178	1.85				
1	-.09	2	0.00	3	-.26	4	0.00	5	0.00
6	0.00	7	0.00	8	0.00	9	0.00	10	0.00
11	2.45	12	0.00	13	0.00	14	-.01	15	.02
16	1.08	17	2.13	18	0.00	19	0.00	20	0.00
21	.25	22	0.00	23	0.00	24	0.00	25	1.33
26	0.00	27	.06	28	0.00	29	0.00	30	0.00
31	0.00	32	0.00	33	0.00	34	-.25	35	0.00
36	.04	37	.15	38	0.00	39	0.00	40	0.00
41	.79	42	0.00	43	0.00	44	0.00	45	-.59
46	0.00	47	0.00	48	0.00	49	0.00	50	1.12
51	0.00	52	.01	53	0.00	54	0.00	55	-.28
56	3.77	57	.01	58	.03	59	0.00	60	.32
61	0.00	62	.04	63	-.52	64	-.17	65	-.09
66	.07	67	.31	68	-1.84	69	-.67	70	-.12
71	0.00	72	0.00	73	-.16	74	.28	75	.51
76	0.00	77	.21	78	.27	79	.01	80	1.87
81	-.16	82	.87	83	0.00	84	.04	85	2.90
86	-.48	87	-.31	88	-.62	89	6.86	90	4.63
91	0.00	92	0.00	93	0.00	94	.03	95	.20
96	0.00	97	-.50	98	1.02	99	1.92	100	-.51
101	2.18	102	0.00	103	.14	104	0.00	105	0.00
106	.33	107	.79	108	.37	109	0.00	110	0.00
111	.58	112	-.34	113	1.51	114	1.62	115	.12
116	-.00	117	0.00	118	.58	119	.19	120	1.21
121	2.75	122	.17	123	0.00	124	0.00	125	.21
126	0.00	127	.11	128	.07	129	1.01	130	0.00

131	1.72	132	0.00	133	0.00	134	0.00	135	.26
136	.30	137	.22	138	0.00	139	1.16	140	0.00
141	0.00	142	.17	143	0.00	144	0.00	145	0.00
146	0.00	147	0.00	148	.03	149	0.00	150	0.00
151	1.34	152	.27	153	0.00	154	.54	155	0.00
156	0.00	157	0.00	158	.03	159	0.00	160	0.00
161	.15	162	0.00	163	0.00	164	.05	165	.33
166	-.10	167	-.10	168	0.00	169	-.08	170	0.00
171	.03	172	.04	173	.07	174	0.00	175	.04
176	0.00	177	.11	178	.10				
1	.42	2	0.00	3	1.18	4	0.00	5	0.00
6	0.00	7	0.00	8	0.00	9	0.00	10	0.00
11	3.06	12	0.00	13	0.00	14	.06	15	.04
16	.71	17	2.72	18	0.00	19	0.00	20	0.00
21	.52	22	0.00	23	0.00	24	0.00	25	1.82
26	0.00	27	1.78	28	0.00	29	0.00	30	0.00
31	0.00	32	0.00	33	0.00	34	1.75	35	.52
36	.93	37	.73	38	0.00	39	0.00	40	0.00
41	6.75	42	0.00	43	0.00	44	0.00	45	2.64
46	0.00	47	.51	48	0.00	49	0.00	50	2.81
51	0.00	52	.04	53	0.00	54	0.00	55	1.84
56	2.59	57	0.00	58	.06	59	0.00	60	.57
61	0.00	62	.02	63	2.31	64	1.12	65	.71
66	0.00	67	.04	68	6.14	69	7.79	70	.53
71	0.00	72	0.00	73	.75	74	1.73	75	.57
76	0.00	77	.49	78	3.39	79	.03	80	1.04
81	.54	82	2.17	83	0.00	84	.02	85	.32
86	5.52	87	2.46	88	3.39	89	1.59	90	.88
91	0.00	92	0.00	93	0.00	94	.38	95	.27
96	0.00	97	1.99	98	1.32	99	5.56	100	2.76
101	.82	102	0.00	103	1.59	104	0.00	105	0.00
106	.54	107	.62	108	.56	109	0.00	110	0.00
111	1.59	112	3.22	113	.44	114	.75	115	.09
116	.01	117	0.00	118	.28	119	.10	120	.11
121	.57	122	1.92	123	0.00	124	0.00	125	.28
126	0.00	127	.48	128	.57	129	.75	130	0.00
131	.88	132	0.00	133	0.00	134	0.00	135	.06
136	.37	137	.53	138	0.00	139	1.18	140	0.00
141	0.00	142	.02	143	0.00	144	0.00	145	0.00
146	0.00	147	0.00	148	.06	149	0.00	150	0.00
151	.60	152	.15	153	0.00	154	.32	155	0.00
156	0.00	157	0.00	158	0.00	159	0.00	160	0.00
161	.08	162	0.00	163	0.00	164	.12	165	.12
166	1.43	167	1.06	168	0.00	169	.40	170	0.00
171	.22	172	.09	173	1.00	174	0.00	175	.10
176	0.00	177	.78	178	.24				
	-1.0		1.0		-1.0		1.0		
178	0	178	178	17	26				
1	2.74	2	2.77	3	1.92	4	0.0	5	0.38
6	0.0	7	1.15	8	2.00	9	2.46	10	0.0
11	5.77	12	0.0	13	0.77	14	1.08	15	5.46
16	5.54	17	4.62	18	0.0	19	0.0	20	0.77
21	5.95	22	10.87	23	0.43	24	0.31	25	0.15
26	0.0	27	0.0	28	0.0	29	0.0	30	0.12
31	4.61	32	0.0	33	2.11	34	1.15	35	0.23
36	1.62	37	1.54	38	1.08	39	0.77	40	1.56
41	2.97	42	2.11	43	2.11	44	0.69	45	0.77
46	0.23	47	0.77	48	1.32	49	11.54	50	1.15
51	0.38	52	0.0	53	0.31	54	0.0	55	2.00
56	2.18	57	4.83	58	2.31	59	-2.00	60	0.0
61	0.0	62	0.0	63	0.0	64	0.0	65	1.47

66	0.0	67	0.0	68	0.0	69	0.0	70	0.0
71	0.0	72	0.0	73	0.0	74	0.77	75	4.29
76	2.69	77	-16.50	78	0.0	79	0.0	80	0.0
81	0.38	82	0.0	83	1.06	84	2.47	85	0.0
86	0.0	87	0.0	88	0.0	89	0.0	90	0.0
91	1.15	92	0.0	93	1.62	94	0.62	95	5.39
96	-2.50	97	0.0	98	0.0	99	0.0	100	0.0
101	0.38	102	0.0	103	1.41	104	3.52	105	7.05
106	2.11	107	0.0	108	0.77	109	4.23	110	0.62
111	0.0	112	0.69	113	0.0	114	1.92	115	3.52
116	0.31	117	0.31	118	0.77	119	0.77	120	3.08
121	2.93	122	1.46	123	10.80	124	0.0	125	3.85
126	0.31	127	0.15	128	1.92	129	1.92	130	1.54
131	0.77	132	10.57	133	7.05	134	0.38	135	0.0
136	0.38	137	0.38	138	0.0	139	0.0	140	0.0
141	7.05	142	2.23	143	1.15	144	0.92	145	1.15
146	0.0	147	0.0	148	0.38	149	0.0	150	0.69
151	1.77	152	0.0	153	0.15	154	0.0	155	14.10
156	9.74	157	4.06	158	5.75	159	5.60	160	0.0
161	4.31	162	2.36	163	0.0	164	2.34	165	0.23
166	1.62	167	3.46	168	0.77	169	2.16	170	3.54
171	0.31	172	0.0	173	0.31	174	0.31	175	0.0
176	1.08	177	2.69	178	1.85				
1	-.09	2	0.00	3	-.26	4	0.00	5	0.00
6	0.00	7	0.00	8	0.00	9	0.00	10	0.00
11	2.45	12	0.00	13	0.00	14	-.01	15	.02
16	1.08	17	2.13	18	0.00	19	0.00	20	0.00
21	.25	22	0.00	23	0.00	24	0.00	25	1.33
26	0.00	27	.06	28	0.00	29	0.00	30	0.00
31	0.00	32	0.00	33	0.00	34	-.25	35	0.00
36	.04	37	.15	38	0.00	39	0.00	40	0.00
41	.79	42	0.00	43	0.00	44	0.00	45	-.59
46	0.00	47	0.00	48	0.00	49	0.00	50	1.12
51	0.00	52	.01	53	0.00	54	0.00	55	-.28
56	3.77	57	.01	58	.03	59	0.00	60	.32
61	0.00	62	.04	63	-.52	64	-.17	65	-.09
66	.07	67	.31	68	-1.84	69	-.67	70	-.12
71	0.00	72	0.00	73	-.16	74	.28	75	.51
76	0.00	77	.21	78	.27	79	.01	80	1.87
81	-.16	82	.87	83	0.00	84	.04	85	2.90
86	-.48	87	-.31	88	-.62	89	6.86	90	4.63
91	0.00	92	0.00	93	0.00	94	.03	95	.20
96	0.00	97	-.50	98	1.02	99	1.92	100	-.51
101	2.18	102	0.00	103	.14	104	0.00	105	0.00
106	.33	107	.79	108	.37	109	0.00	110	0.00
111	.58	112	-.34	113	1.51	114	1.62	115	.12
116	-.00	117	0.00	118	.58	119	.19	120	1.21
121	2.75	122	.17	123	0.00	124	0.00	125	.21
126	0.00	127	.11	128	.07	129	1.01	130	0.00
131	1.72	132	0.00	133	0.00	134	0.00	135	.26
136	.30	137	.22	138	0.00	139	1.16	140	0.00
141	0.00	142	.17	143	0.00	144	0.00	145	0.00
146	0.00	147	0.00	148	.03	149	0.00	150	0.00
151	1.34	152	.27	153	0.00	154	.54	155	0.00
156	0.00	157	0.00	158	.03	159	0.00	160	0.00
161	.15	162	0.00	163	0.00	164	.05	165	.33
166	-.10	167	-.10	168	0.00	169	-.08	170	0.00
171	.03	172	.04	173	.07	174	0.00	175	.04
176	0.00	177	.11	178	.10				
1	.42	2	0.00	3	1.18	4	0.00	5	0.00
6	0.00	7	0.00	8	0.00	9	0.00	10	0.00

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  11   3.06     12   0.00     13   0.00     14    .06     15    .04
  16    .71     17   2.72     18   0.00     19   0.00     20   0.00
  21    .52     22   0.00     23   0.00     24   0.00     25   1.82
  26   0.00     27   1.78     28   0.00     29   0.00     30   0.00
  31   0.00     32   0.00     33   0.00     34   1.75     35    .52
  36    .93     37    .73     38   0.00     39   0.00     40   0.00
  41   6.75     42   0.00     43   0.00     44   0.00     45   2.64
  46   0.00     47    .51     48   0.00     49   0.00     50   2.81
  51   0.00     52    .04     53   0.00     54   0.00     55   1.84
  56   2.59     57   0.00     58    .06     59   0.00     60    .57
  61   0.00     62    .02     63   2.31     64   1.12     65    .71
  66   0.00     67    .04     68   6.14     69   7.79     70    .53
  71   0.00     72   0.00     73    .75     74   1.73     75    .57
  76   0.00     77    .49     78   3.39     79    .03     80   1.04
  81    .54     82   2.17     83   0.00     84    .02     85    .32
  86   5.52     87   2.46     88   3.39     89   1.59     90    .88
  91   0.00     92   0.00     93   0.00     94    .38     95    .27
  96   0.00     97   1.99     98   1.32     99   5.56    100   2.76
 101    .82    102   0.00    103   1.59    104   0.00    105   0.00
 106    .54    107    .62    108    .56    109   0.00    110   0.00
 111   1.59    112   3.22    113    .44    114    .75    115    .09
 116    .01    117   0.00    118    .28    119    .10    120    .11
 121    .57    122   1.92    123   0.00    124   0.00    125    .28
 126   0.00    127    .48    128    .57    129    .75    130   0.00
 131    .88    132   0.00    133   0.00    134   0.00    135    .06
 136    .37    137    .53    138   0.00    139   1.18    140   0.00
 141   0.00    142    .02    143   0.00    144   0.00    145   0.00
 146   0.00    147   0.00    148    .06    149   0.00    150   0.00
 151    .60    152    .15    153   0.00    154    .32    155   0.00
 156   0.00    157   0.00    158   0.00    159   0.00    160   0.00
 161    .08    162   0.00    163   0.00    164    .12    165    .12
 166   1.43    167   1.06    168   0.00    169    .40    170   0.00
 171    .22    172    .09    173   1.00    174   0.00    175    .10
 176   0.00    177    .78    178    .24
       -1.0           1.0          -1.0          1.0
       -1.0           1.0          -1.0          1.0
       -1.0           1.0          -1.0          1.0
       -1.0           1.0          -1.0          1.0
       -1.0           1.0          -1.0          1.0
       -1.0           1.0          -1.0          1.0
       -1.0           1.0          -1.0          1.0
       -1.0           1.0          -1.0          1.0
       -1.0           1.0          -1.0          1.0
       -1.0           1.0          -1.0          1.0
    3    16    16
WELL 01N/05W-23P04 NODE 16 PERF 200-630 40 PCT UPPER AQUIFER LSD=1470
       0.0      312.0     1250.0     1550.0    26    12     6    15      1.0     1.0
    0    1    1   75     1470.0        0.4        0.6
    3    41    41
WELL 01N/04W-16E01 NODE 41 PERF 186-406 30 PCT UPPER AQ LSD=1420
       0.0      312.0     1150.0     1450.0    26    12     6    15      1.0     1.0
    0    1    1   75     1420.0        0.3        0.7
    3    50    50
WELL 01S/04W-08F10 NODE 50 PERF 226-758 100 PCT LOWER AQ LSD=1099
       0.0      312.0      850.0     1150.0    26    12     6    15      1.0     1.0
    0    1    1   76     1099.0        0.0        1.0
    3    51    51
WELL 01S/04W-08A01 NODE 51 PERF 101-482 59 PCT UPPER AQ LSD=1094
       0.0      312.0      850.0     1150.0    26    12     6    15      1.0     1.0
    0    1    1   75     1094.0         .59        .41
    3    54    54
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WELL 01S/04W-03D01 NODE 54 PERF 135-460 53 PCT UPPER AQ LSD=1096
       0.0      312.0      850.0     1150.0    26    12     6    15      1.0     1.0
    0     1     1    75     1096.0        .53        .47
     3     69     69
WELL 01S/04W-02K01 NODE 69  PERF TO TD=581 85 PCT UPPER AQ LSD=1054
       0.0      312.0      800.0     1100.0    26    12     6    15      1.0     1.0
    0     1     1    75     1054.2        .85        .15
     3     75     75
WELL 01N/03W-29M01 NODE 75 PERF 238-396 100 PCT UPPER AQ LSD=1345
       0.0      312.0      950.0     1250.0    26    12     6    15      1.0     1.0
    0     1     1    75     1345.2         1.0         0
     3     78     78
WELL 01S/04W-15M02 NODE 78 PERF 24-572 63 PCT UPPER AQ LSD=985
       0.0      312.0      750.0     1050.0    26    12     6    15      1.0     1.0
    0     1     1    75      984.6        .85        .15
     3     81     81
WELL 01N/04W-36Q01 NODE 81 PERF TO TD=696 40 PCT UPPER AQ LSD=1097
       0.0      312.0      850.0     1150.0    26    12     6    15      1.0     1.0
    0     1     1    75     1097.0         0.7        0.3
     3     84     84
WELL 01N/03W-31B01 NODE 84 PERF 178-381 95 PCT UPPER AQ LSD=1228
       0.0      312.0      950.0     1250.0    26    12     6    15      1.0     1.0
    0     1     1    75     1227.6        .95        .05
     3     88     88
WELL 01S/04W-14P02 NODE 88 PERF UNK TD 580 70 PCT UPPER AQ LSD=1023
       0.0      312.0      800.0     1100.0    26    12     6    15      1.0     1.0
    0     1     1    75     1023.0         0.7        0.3
     3    108    108
WELL 01S/03W-02J01 NODE 108 PERF 118-232 100 PCT UPPER AQ LSD=1397
       0.0      312.0     1100.0     1400.0    26    12     6    15      1.0     1.0
    0     1     1    75     1397.0         1.0         0.0
     3    121    121
WELL 01S/03W-21H01 NODE 121 PERF TO TD=426 75 PCT UPPER AQ LSD=1318
       0.0      312.0     1050.0     1350.0    26    12     6    15      1.0     1.0
    0     1     1    75     1317.8        .75        .25
     3    135    135
WELL 01S/03W-32J01 NODE 135 PERF TO TD=420 80 PCT UPPER AQ LSD=1213
       0.0      312.0     1000.0     1300.0    26    12     6    15      1.0     1.0
    0     1     1    75     1263.3         0.8        0.2
     3    166    166
WELL 01S/02W-30B03 NODE 166 PERF 124-228  75 PCT LOWER AQ LSD=1709
       0.0      312.0     1400.0     1700.0    26    12     6    15      1.0     1.0
    0     1     1    75     1709.0        .25        .75
    -1     26
SAN BERNARDINO YEAR 2000 DRAWDOWN (FEET + OR- 1975 WATER LEVELS)
0.0       130000.0  0.0       60000.0       13    15     6    25     4     1.0
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ATTACHMENT E

Sample Model Output for San Bernardino Field Problem

GROUND-WATER FLOW ANALYSIS OF TWO-AQUIFER SYSTEM

WITH TRIANGULAR LINEAR ELEMENTS

****

SAN BERNARDINO TRANSIENT-STATE MODEL

****

DATE 0/ 0/ 0

PROGRAM CONTROL

INITIAL TIME STEP	365.0
NUMBER OF TIME STEPS	26
MULTIPLIER FOR CHANGING TIME STEPS	1.000
NUMBER OF ITERATIONS	75
CONVERGENCE CRITERION	.1000
RELAXATION FACTOR	1.7000

KODI PARAMETERS

5	0	0	0	0	0	0	1	0	1

UPPER AQUIFER

FINITE ELEMENT DATA

NUMBER OF -	NODES	178
	ELEMENTS	296

NODE COORDINATES

MULTIPLICATION FACTOR FOR X AND Y .1E+01

NODE	X	Y	NODE	X	Y	NODE	X	Y
1	1524.0	29339.0	2	4852.0	32946.0	3	8904.0	42419.0
4	9704.0	26249.0	5	12952.0	29447.0	6	16452.0	32878.0
7	14164.0	36385.0	8	14076.0	37582.0	9	12492.0	44818.0
10	16640.0	49241.0	11	18860.0	25032.0	12	20292.0	33714.0
13	20644.0	34465.0	14	19276.0	41134.0	15	26512.0	48654.0
16	24140.0	24228.0	17	24108.0	28137.0	18	26920.0	30684.0
19	27304.0	31488.0	20	24240.0	35067.0	21	27088.0	42030.0
22	29344.0	45633.0	23	31116.0	48345.0	24	31292.0	23164.0
25	31436.0	24331.0	26	35352.0	27033.0	27	35688.0	27772.0
28	33640.0	33384.0	29	32659.0	36731.0	30	32135.0	39772.0
31	32912.0	41921.0	32	33100.0	45653.0	33	34772.0	46838.0
34	39688.0	19371.0	35	40484.0	20898.0	36	42016.0	23987.0
37	42400.0	24703.0	38	44616.0	29399.0	39	41440.0	34051.0
40	37048.0	39527.0	41	37044.0	41917.0	42	35848.0	44601.0
43	37268.0	45862.0	44	39240.0	47791.0	45	44468.0	36823.0
46	46568.0	40672.0	47	46608.0	41680.0	48	42292.0	44235.0
49	49400.0	47622.0	50	45620.0	16692.0	51	47996.0	19781.0
52	48252.0	21223.0	53	48496.0	21939.0	54	50312.0	26836.0
55	50104.0	33722.0	56	53752.0	40648.0	57	53700.0	41628.0
58	57948.0	47369.0	59	50488.0	14394.0	60	51512.0	16957.0
61	53088.0	18994.0	62	53408.0	19729.0	63	55548.0	24956.0
64	55840.0	32585.0	65	55320.0	35694.0	66	56096.0	17620.0
67	56304.0	18468.0	68	58716.0	25024.0	69	60300.0	28246.0
70	57952.0	35051.0	71	60148.0	37570.0	72	60068.0	38253.0
73	59708.0	40921.0	74	59600.0	41672.0	75	66604.0	41813.0
76	64359.0	47144.0	77	60152.0	10015.0	78	57572.0	14534.0
79	62620.0	22268.0	80	63044.0	26896.0	81	63520.0	33617.0
82	68348.0	37948.0	83	68340.0	38655.0	84	66648.0	41037.0
85	61820.0	13084.0	86	62916.0	14623.0	87	63240.0	15322.0
88	64308.0	16925.0	89	67100.0	20171.0	90	67704.0	24582.0
91	69736.0	28788.0	92	71008.0	32002.0	93	78184.0	42078.0
94	71156.0	44605.0	95	76236.0	47658.0	96	66768.0	6974.0
97	69616.0	11562.0	98	69904.0	12313.0	99	68724.0	15784.0
100	72836.0	20946.0	101	76608.0	25454.0	102	77244.0	29700.0
103	76984.0	35168.0	104	78156.0	38342.0	105	78168.0	39001.0
106	78176.0	41250.0	107	88944.0	41491.0	108	88916.0	42287.0
109	83476.0	48096.0	110	72720.0	6934.0	111	72956.0	13687.0
112	78820.0	20079.0	113	80760.0	23501.0	114	83676.0	28555.0
115	82512.0	34389.0	116	76484.0	8573.0	117	76748.0	9256.0
118	78540.0	13546.0	119	81852.0	18206.0	120	84432.0	21850.0
121	86512.0	26273.0	122	90004.0	32034.0	123	91456.0	37273.0
124	91876.0	41817.0	125	92508.0	48574.0	126	83336.0	7584.0
127	84564.0	11706.0	128	85684.0	15748.0	129	88468.0	19910.0
130	91216.0	24020.0	131	95532.0	30423.0	132	97956.0	39346.0

133	99180.0	43155.0	134	84248.0	7536.0	135	85448.0	11738.0
136	86648.0	15575.0	137	89248.0	19536.0	138	92084.0	23682.0
139	96380.0	30186.0	140	98772.0	39246.0	141	99956.0	43126.0
142	101112.0	49293.0	143	90008.0	9007.0	144	94128.0	13610.0
145	97412.0	19608.0	146	100920.0	26386.0	147	101132.0	31657.0
148	100512.0	37398.0	149	91392.0	9256.0	150	94976.0	13136.0
151	98280.0	19195.0	152	101780.0	26438.0	153	102008.0	31673.0
154	101420.0	37494.0	155	100920.0	43203.0	156	105224.0	43982.0
157	105720.0	46497.0	158	105888.0	47361.0	159	106288.0	49602.0
160	95684.0	10188.0	161	100532.0	15049.0	162	105796.0	21111.0
163	102612.0	25562.0	164	108828.0	25269.0	165	107256.0	30861.0
166	106636.0	31580.0	167	111416.0	31191.0	168	111296.0	35409.0
169	111232.0	36526.0	170	111164.0	43837.0	171	112224.0	37381.0
172	112144.0	43576.0	173	112144.0	44320.0	174	120388.0	44749.0
175	121528.0	45798.0	176	123872.0	47863.0	177	122012.0	50615.0
178	125484.0	54054.0						

ELEMENT INCIDENCES

ELE	CORNERS			ELE	CORNERS			ELE	CORNERS		
1	1	4	2	2	4	5	2	3	5	6	2
4	8	9	3	5	4	11	5	6	5	11	6
7	11	17	6	8	17	12	6	9	6	12	7
10	12	13	7	11	7	13	8	12	8	13	14
13	8	14	9	14	14	15	9	15	9	15	10
16	11	16	17	17	17	18	12	18	18	19	13
19	12	18	13	20	13	19	20	21	13	20	14
22	20	29	14	23	29	30	14	24	14	21	15
25	21	22	15	26	22	23	15	27	24	25	16
28	16	25	17	29	17	25	18	30	25	26	18
31	26	27	18	32	18	27	19	33	19	27	28
34	19	28	29	35	19	29	20	36	21	31	22
37	22	31	32	38	22	32	23	39	32	33	23
40	33	44	23	41	24	34	25	42	34	35	26
43	25	34	26	44	27	39	28	45	29	40	30
46	30	40	31	47	40	41	31	48	31	41	42
49	31	42	32	50	41	43	42	51	43	44	33
52	35	36	26	53	36	37	27	54	26	36	27
55	37	38	27	56	27	38	39	57	40	47	41
58	41	47	48	59	41	48	43	60	43	48	44
61	48	49	44	62	34	50	35	63	35	50	36
64	36	50	51	65	36	51	52	66	36	52	53
67	36	53	37	68	37	53	54	69	37	54	38
70	38	54	55	71	39	38	45	72	38	55	45
73	45	55	56	74	45	56	46	75	46	56	47
76	48	47	49	77	50	59	60	78	50	60	51
79	51	60	61	80	51	61	52	81	61	62	53
82	52	61	53	83	53	62	54	84	62	63	54
85	54	63	64	86	54	64	55	87	55	64	65

88	55	65	56	89	47	56	57	90	47	57	49
91	57	58	49	92	59	77	78	93	59	78	60
94	60	78	66	95	60	66	61	96	61	66	67
97	61	67	62	98	62	67	63	99	67	68	63
100	63	68	64	101	64	70	65	102	65	72	56
103	56	72	73	104	56	73	74	105	56	74	57
106	57	74	58	107	78	77	85	108	78	85	86
109	66	78	86	110	86	87	67	111	66	86	67
112	67	87	88	113	67	88	79	114	67	79	68
115	68	79	69	116	79	80	69	117	68	69	64
118	69	80	81	119	64	69	81	120	64	81	70
121	70	81	71	122	71	83	72	123	72	84	73
124	73	84	74	125	74	75	58	126	75	76	58
127	77	96	85	128	85	97	86	129	86	98	87
130	87	98	88	131	88	89	79	132	79	89	90
133	79	90	80	134	80	90	81	135	81	90	91
136	81	91	92	137	81	92	82	138	81	82	71
139	71	82	83	140	72	83	84	141	74	84	75
142	85	96	97	143	86	97	98	144	88	98	99
145	88	99	89	146	89	99	100	147	89	100	90
148	90	100	101	149	90	101	91	150	91	101	102
151	91	102	92	152	92	102	103	153	92	103	82
154	82	103	104	155	82	104	83	156	83	104	105
157	83	105	84	158	84	105	106	159	84	93	75
160	84	106	93	161	75	93	94	162	76	75	94
163	76	94	95	164	94	93	95	165	96	110	97
166	97	110	116	167	98	116	117	168	97	116	98
169	98	117	111	170	99	98	111	171	99	111	100
172	111	112	100	173	100	112	101	174	112	113	101
175	101	113	114	176	101	114	102	177	102	114	115
178	102	115	103	179	103	115	104	180	104	115	105
181	105	107	106	182	106	107	93	183	93	109	95
184	116	126	117	185	117	118	111	186	111	118	112
187	118	119	112	188	112	119	120	189	112	120	113
190	113	120	114	191	114	122	115	192	115	122	123
193	115	123	107	194	105	115	107	195	93	107	108
196	93	108	109	197	109	108	125	198	117	126	118
199	118	126	127	200	118	127	128	201	118	128	119
202	119	128	120	203	120	128	129	204	120	129	130
205	120	130	121	206	120	121	114	207	121	130	122
208	114	121	122	209	122	131	123	210	123	124	107
211	107	124	108	212	108	124	125	213	126	134	135
214	126	135	127	215	127	135	128	216	135	136	128
217	128	136	137	218	128	137	129	219	129	137	130
220	137	138	130	221	130	138	139	222	130	139	131
223	130	131	122	224	131	139	132	225	139	140	132
226	131	132	123	227	123	132	124	228	132	140	141
229	132	141	133	230	124	132	133	231	124	133	125
232	125	133	142	233	133	141	142	234	134	143	135
235	135	143	144	236	135	144	136	237	136	144	137
238	137	144	145	239	137	145	138	240	138	145	146
241	138	146	139	242	139	146	147	243	139	147	148

244	139	148	140	245	140	148	141	246	143	149	144
247	149	150	144	248	144	150	151	249	144	151	145
250	145	151	152	251	145	152	146	252	146	152	147
253	152	153	147	254	147	153	154	255	147	154	148
256	148	154	141	257	154	155	141	258	141	155	142
259	149	160	150	260	150	160	161	261	150	161	151
262	151	161	162	263	151	162	163	264	151	163	152
265	152	166	153	266	153	166	154	267	154	166	169
268	154	169	156	269	154	156	155	270	155	156	142
271	162	164	163	272	163	164	165	273	152	163	165
274	152	165	166	275	164	167	165	276	165	167	168
277	165	168	169	278	166	165	169	279	169	170	156
280	156	170	157	281	156	157	142	282	142	157	158
283	142	158	159	284	169	171	172	285	169	172	170
286	170	172	173	287	170	173	157	288	157	173	158
289	171	174	172	290	172	174	173	291	173	174	175
292	158	173	177	293	158	177	159	294	173	175	177
295	175	176	177	296	178	177	176				

BLOCK ADJUSTMENT INDEX FOR TRANSMISSIVITY

1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1.000	1.000	1.000	1.000	1.000	1.000	1.000			

ELEMENT TRANSMISSIVITY

MULTIPLICATION FACTOR FOR T .1E+01

ELE	VALUE	ELE	VALUE	ELE	VALUE	ELE	VALUE	ELE	VALUE
1	.0189	2	.0189	3	.0189	4	.0160	5	.0283
6	.0378	7	.0378	8	.0944	9	.0189	10	.0003
11	.0003	12	.0370	13	.0160	14	.0066	15	.0026
16	.0283	17	.0944	18	.0003	19	.0003	20	.0741
21	.0741	22	.0741	23	.0247	24	.0066	25	.0066
26	.0053	27	.0567	28	.0567	29	.0944	30	.1015
31	.0003	32	.0003	33	.0741	34	.0741	35	.0741
36	.0132	37	.0132	38	.0053	39	.0053	40	.0053
41	.1015	42	.0755	43	.0755	44	.0741	45	.0247
46	.0469	47	.0575	48	.0264	49	.0264	50	.0264
51	.0053	52	.0755	53	.0102	54	.0102	55	.0988
56	.0988	57	.0575	58	.0264	59	.0264	60	.0053
61	.0106	62	.0414	63	.0414	64	.0414	65	.0414
66	.1072	67	.1072	68	.1714	69	.1714	70	.1286
71	.0742	72	.0607	73	.0972	74	.1215	75	.0937
76	.0237	77	.0414	78	.0414	79	.0383	80	.0414
81	.2143	82	.2143	83	.2571	84	.2571	85	.2571
86	.2143	87	.1286	88	.0972	89	.0937	90	.0600
91	.0600	92	.0858	93	.0858	94	.2143	95	.1714

96	.2143	97	.2143	98	.2767	99	.2767	100	.2571
101	.1274	102	.0972	103	.0972	104	.0937	105	.0937
106	.0600	107	.1286	108	.2300	109	.2300	110	.2300
111	.2300	112	.2143	113	.2143	114	.2767	115	.2571
116	.2571	117	.2571	118	.2571	119	.2571	120	.2143
121	.0936	122	.1295	123	.0972	124	.0937	125	.0198
126	.0185	127	.1286	128	.1542	129	.1714	130	.1714
131	.1714	132	.1714	133	.1714	134	.1714	135	.1714
136	.1402	137	.1404	138	.0936	139	.1295	140	.0972
141	.0937	142	.1286	143	.1714	144	.1714	145	.1714
146	.1714	147	.1714	148	.1714	149	.1714	150	.1170
151	.0936	152	.0936	153	.1404	154	.1404	155	.1295
156	.1295	157	.1295	158	.1295	159	.0937	160	.0937
161	.0296	162	.0198	163	.0138	164	.0138	165	.0250
166	.0250	167	.0429	168	.0429	169	.0277	170	.1242
171	.1286	172	.1286	173	.1972	174	.1873	175	.2300
176	.2300	177	.1873	178	.1170	179	.0936	180	.0936
181	.0936	182	.0469	183	.0200	184	.0234	185	.0350
186	.1286	187	.0819	188	.1170	189	.1404	190	.1404
191	.1639	192	.1404	193	.0936	194	.0936	195	.0469
196	.0200	197	.0200	198	.0400	199	.0400	200	.0400
201	.0702	202	.0936	203	.0936	204	.0936	205	.0936
206	.0936	207	.0936	208	.1364	209	.0702	210	.0702
211	.0702	212	.0200	213	.0090	214	.0090	215	.0090
216	.0090	217	.0253	218	.0253	219	.0181	220	.0181
221	.0181	222	.0181	223	.0702	224	.0181	225	.0181
226	.0702	227	.0702	228	.0289	229	.0289	230	.0702
231	.0200	232	.0200	233	.0200	234	.0230	235	.0230
236	.0230	237	.0307	238	.0307	239	.0384	240	.0384
241	.0384	242	.0384	243	.0460	244	.0460	245	.0263
246	.0010	247	.0010	248	.0010	249	.0010	250	.0012
251	.0018	252	.0054	253	.0054	254	.0108	255	.0108
256	.0289	257	.0289	258	.0200	259	.1080	260	.0126
261	.0090	262	.0090	263	.0090	264	.0012	265	.0113
266	.0113	267	.0225	268	.0270	269	.0270	270	.0180
271	.0090	272	.0090	273	.0014	274	.0014	275	.0090
276	.0090	277	.0056	278	.0056	279	.0120	280	.0120
281	.0120	282	.0056	283	.0028	284	.0021	285	.0021
286	.0056	287	.0056	288	.0056	289	.0063	290	.0056
291	.0056	292	.0143	293	.0020	294	.0143	295	.0143
296	.0143								

BLOCK ADJUSTMENT INDEX FOR STORAGE COEFFICIENT

1.500 1.000 .800 .500 .500 .000

ELEMENT STORAGE COEFFICIENT

MULTIPLICATION FACTOR FOR S .1E-01

ELE	VALUE	ELE	VALUE	ELE	VALUE	ELE	VALUE	ELE	VALUE
1	.15000	2	.15000	3	.15000	4	.15000	5	.10000
6	.10000	7	.10000	8	.10000	9	.15000	10	.15000
11	.15000	12	.15000	13	.15000	14	.15000	15	.15000
16	.05000	17	.10000	18	.10000	19	.10000	20	.10000
21	.10000	22	.10000	23	.10000	24	.10000	25	.10000
26	.10000	27	.05000	28	.05000	29	.05000	30	.05000
31	.10000	32	.10000	33	.10000	34	.10000	35	.10000
36	.10000	37	.10000	38	.10000	39	.10000	40	.10000
41	.05000	42	.05000	43	.05000	44	.08000	45	.08000
46	.08000	47	.08000	48	.08000	49	.10000	50	.08000
51	.10000	52	.05000	53	.05000	54	.05000	55	.05000
56	.05000	57	.08000	58	.08000	59	.08000	60	.10000
61	.10000	62	.05000	63	.05000	64	.05000	65	.05000
66	.05000	67	.05000	68	.05000	69	.05000	70	.05000
71	.05000	72	.05000	73	.05000	74	.08000	75	.08000
76	.08000	77	.05000	78	.05000	79	.00001	80	.00001
81	.00001	82	.00001	83	.00001	84	.00001	85	.00001
86	.05000	87	.05000	88	.05000	89	.08000	90	.08000
91	.08000	92	.00001	93	.00001	94	.00001	95	.00001
96	.00001	97	.00001	98	.00001	99	.00001	100	.00001
101	.05000	102	.05000	103	.05000	104	.05000	105	.05000
106	.08000	107	.00001	108	.00001	109	.00001	110	.00001
111	.00001	112	.00001	113	.00001	114	.00001	115	.00001
116	.00001	117	.00001	118	.00001	119	.00001	120	.05000
121	.05000	122	.05000	123	.05000	124	.05000	125	.08000
126	.08000	127	.00001	128	.00001	129	.00001	130	.00001
131	.00001	132	.00001	133	.00001	134	.00001	135	.05000
136	.05000	137	.05000	138	.05000	139	.05000	140	.05000
141	.05000	142	.00001	143	.00001	144	.00001	145	.00001
146	.00001	147	.00001	148	.00001	149	.00001	150	.05000
151	.05000	152	.05000	153	.05000	154	.05000	155	.05000
156	.05000	157	.05000	158	.08000	159	.08000	160	.08000
161	.08000	162	.08000	163	.10000	164	.10000	165	.05000
166	.05000	167	.05000	168	.05000	169	.05000	170	.00001
171	.00001	172	.05000	173	.05000	174	.05000	175	.05000
176	.05000	177	.05000	178	.05000	179	.05000	180	.08000
181	.08000	182	.08000	183	.10000	184	.05000	185	.05000
186	.05000	187	.05000	188	.05000	189	.05000	190	.05000
191	.08000	192	.08000	193	.08000	194	.08000	195	.10000
196	.10000	197	.10000	198	.05000	199	.05000	200	.05000
201	.10000	202	.10000	203	.08000	204	.08000	205	.08000
206	.08000	207	.08000	208	.08000	209	.08000	210	.10000
211	.10000	212	.10000	213	.10000	214	.10000	215	.10000
216	.10000	217	.10000	218	.10000	219	.10000	220	.10000

221	.10000	222	.10000	223	.08000	224	.10000	225	.10000
226	.10000	227	.10000	228	.10000	229	.10000	230	.10000
231	.10000	232	.15000	233	.15000	234	.10000	235	.10000
236	.10000	237	.10000	238	.10000	239	.10000	240	.10000
241	.10000	242	.10000	243	.10000	244	.10000	245	.10000
246	.10000	247	.10000	248	.10000	249	.10000	250	.10000
251	.10000	252	.10000	253	.10000	254	.10000	255	.10000
256	.10000	257	.10000	258	.15000	259	.15000	260	.15000
261	.15000	262	.15000	263	.15000	264	.15000	265	.15000
266	.15000	267	.15000	268	.15000	269	.15000	270	.15000
271	.15000	272	.15000	273	.15000	274	.15000	275	.15000
276	.15000	277	.15000	278	.15000	279	.15000	280	.15000
281	.15000	282	.15000	283	.15000	284	.15000	285	.15000
286	.15000	287	.15000	288	.15000	289	.15000	290	.15000
291	.15000	292	.15000	293	.15000	294	.15000	295	.15000
296	.15000								

LEAKY ELEMENTS

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100
101	102	103	104	105	106	107	108	109	110
111	112	113	114	115	116	117	118	119	120
121	122	123	124	125	126	127	128	129	130
131	132	133	134	135	136	137	138	139	140
141	142	143	144	145	146	147	148	149	150
151	152	153	154	155	156	157	158	159	160
161	162	163	164	165	166	167	168	169	170
171	172	173	174	175	176	177	178	179	180
181	182	183	184	185	186	187	188	189	190
191	192	193	194	195	196	197	198	199	200
201	202	203	204	205	206	207	208	209	210
211	212	213	214	215	216	217	218	219	220
221	222	223	224	225	226	227	228	229	230
231	232	233	234	235	236	237	238	239	240
241	242	243	244	245	246	247	248	249	250
251	252	253	254	255	256	257	258	259	260
261	262	263	264	265	266	267	268	269	270
271	272	273	274	275	276	277	278	279	280
281	282	283	284	285	286	287	288	289	290
291	292	293	294	295	296				

LAND SURFACE ELEVATION

EVAPOTRANSPIRATION RATE .100E-06
EFFECTIVE DEPTH OF ET 10.0

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	2065.0	2	1980.0	3	1970.0	4	1820.0	5	1735.0
6	1670.0	7	1790.0	8	1790.0	9	1880.0	10	2400.0
11	1570.0	12	1625.0	13	1635.0	14	1740.0	15	2080.0
16	1475.0	17	1460.0	18	1465.0	19	1470.0	20	1570.0
21	1615.0	22	1680.0	23	1960.0	24	1319.0	25	1325.0
26	1300.0	27	1305.0	28	1395.0	29	1455.0	30	1495.0
31	1490.0	32	1580.0	33	1720.0	34	1240.0	35	1170.0
36	1190.0	37	1190.0	38	1180.0	39	1250.0	40	1415.0
41	1420.0	42	1450.0	43	1560.0	44	1760.0	45	1220.0
46	1280.0	47	1290.0	48	1360.0	49	1470.0	50	1110.0
51	1095.0	52	1105.0	53	1105.0	54	1100.0	55	1185.0
56	1260.0	57	1275.0	58	1520.0	59	1055.0	60	1055.0
61	1040.0	62	1040.0	63	1050.0	64	1125.0	65	1170.0
66	1005.0	67	1000.0	68	1025.0	69	1040.0	70	1130.0
71	1165.0	72	1175.0	73	1225.0	74	1240.0	75	1260.0
76	1560.0	77	960.0	78	975.0	79	1032.0	80	1080.0
81	1090.0	82	1148.0	83	1160.0	84	1250.0	85	985.0
86	1003.0	87	1007.0	88	1023.0	89	1050.0	90	1080.0
91	1110.0	92	1140.0	93	1310.0	94	1390.0	95	1480.0
96	1030.0	97	1060.0	98	1065.0	99	1055.0	100	1110.0
101	1165.0	102	1175.0	103	1195.0	104	1230.0	105	1240.0
106	1290.0	107	1375.0	108	1380.0	109	1700.0	110	1300.0
111	1100.0	112	1165.0	113	1205.0	114	1275.0	115	1240.0
116	1245.0	117	1370.0	118	1160.0	119	1190.0	120	1250.0
121	1310.0	122	1385.0	123	1440.0	124	1470.0	125	1750.0
126	1460.0	127	1235.0	128	1250.0	129	1285.0	130	1370.0
131	1475.0	132	1545.0	133	1650.0	134	1460.0	135	1250.0
136	1280.0	137	1305.0	138	1385.0	139	1490.0	140	1565.0
141	1660.0	142	2240.0	143	1500.0	144	1525.0	145	1540.0
146	1570.0	147	1590.0	148	1610.0	149	1450.0	150	1600.0
151	1580.0	152	1600.0	153	1610.0	154	1640.0	155	1670.0
156	1760.0	157	1870.0	158	2045.0	159	2100.0	160	1475.0
161	1780.0	162	1730.0	163	1635.0	164	1920.0	165	1720.0
166	1700.0	167	1920.0	168	1900.0	169	1920.0	170	2090.0
171	1980.0	172	2125.0	173	2150.0	174	2640.0	175	2550.0
176	2610.0	177	2690.0	178	2925.0				

INITIAL WATER LEVELS

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	1950.0	2	1910.0	3	1810.0	4	1600.0	5	1500.0
6	1420.0	7	1500.0	8	1650.0	9	1750.0	10	1700.0
11	1400.0	12	1400.0	13	1475.0	14	1575.0	15	1550.0
16	1330.0	17	1330.0	18	1300.0	19	1275.0	20	1375.0
21	1450.0	22	1475.0	23	1500.0	24	1210.0	25	1210.0
26	1150.0	27	1025.0	28	1150.0	29	1225.0	30	1325.0
31	1330.0	32	1380.0	33	1340.0	34	1050.0	35	1050.0
36	1050.0	37	1015.0	38	1015.0	39	1035.0	40	1250.0
41	1255.0	42	1300.0	43	1285.0	44	1285.0	45	1040.0
46	1060.0	47	1085.0	48	1200.0	49	1205.0	50	1000.0
51	1000.0	52	1000.0	53	990.0	54	995.0	55	995.0
56	1020.0	57	1025.0	58	1180.0	59	970.0	60	980.0
61	980.0	62	980.0	63	990.0	64	995.0	65	1000.0
66	970.0	67	970.0	68	970.0	69	970.0	70	995.0
71	995.0	72	1000.0	73	1025.0	74	1030.0	75	1025.0
76	1125.0	77	930.0	78	950.0	79	965.0	80	970.0
81	985.0	82	1010.0	83	1015.0	84	1020.0	85	950.0
86	955.0	87	955.0	88	960.0	89	965.0	90	970.0
91	975.0	92	980.0	93	1050.0	94	1060.0	95	1175.0
96	960.0	97	975.0	98	975.0	99	975.0	100	1015.0
101	1025.0	102	1020.0	103	1025.0	104	1040.0	105	1040.0
106	1045.0	107	1220.0	108	1225.0	109	1260.0	110	980.0
111	995.0	112	1070.0	113	1085.0	114	1120.0	115	1070.0
116	1000.0	117	1005.0	118	1035.0	119	1080.0	120	1115.0
121	1140.0	122	1170.0	123	1225.0	124	1275.0	125	1300.0
126	1050.0	127	1070.0	128	1095.0	129	1130.0	130	1140.0
131	1210.0	132	1350.0	133	1450.0	134	1060.0	135	1100.0
136	1150.0	137	1180.0	138	1190.0	139	1260.0	140	1390.0
141	1460.0	142	1575.0	143	1200.0	144	1210.0	145	1225.0
146	1290.0	147	1320.0	148	1400.0	149	1300.0	150	1325.0
151	1425.0	152	1350.0	153	1410.0	154	1450.0	155	1500.0
156	1620.0	157	1710.0	158	1750.0	159	1850.0	160	1475.0
161	1520.0	162	1560.0	163	1480.0	164	1590.0	165	1580.0
166	1520.0	167	1650.0	168	1670.0	169	1830.0	170	2010.0
171	1910.0	172	2025.0	173	2030.0	174	2320.0	175	2360.0
176	2440.0	177	2420.0	178	2600.0				

LOWER AQUIFER

FINITE ELEMENT DATA

NUMBER OF - NODES 178
ELEMENTS 296

NODE COORDINATES

MULTIPLICATION FACTOR FOR X AND Y .1E+01

NODE	X	Y	NODE	X	Y	NODE	X	Y
1	1524.0	29339.0	2	4852.0	32946.0	3	8904.0	42419.0
4	9704.0	26249.0	5	12952.0	29447.0	6	16452.0	32878.0
7	14164.0	36385.0	8	14076.0	37582.0	9	12492.0	44818.0
10	16640.0	49241.0	11	18860.0	25032.0	12	20292.0	33714.0
13	20644.0	34465.0	14	19276.0	41134.0	15	26512.0	48654.0
16	24140.0	24228.0	17	24108.0	28137.0	18	26920.0	30684.0
19	27304.0	31488.0	20	24240.0	35067.0	21	27088.0	42030.0
22	29344.0	45633.0	23	31116.0	48345.0	24	31292.0	23164.0
25	31436.0	24831.0	26	35352.0	27033.0	27	35688.0	27772.0
28	33640.0	33384.0	29	32659.0	36731.0	30	32135.0	39772.0
31	32912.0	41921.0	32	33100.0	45653.0	33	34772.0	46838.0
34	39688.0	19371.0	35	40484.0	20898.0	36	42016.0	23987.0
37	42400.0	24703.0	38	44616.0	29399.0	39	41440.0	34051.0
40	37048.0	39527.0	41	37044.0	41917.0	42	35848.0	44601.0
43	37268.0	45862.0	44	39240.0	47791.0	45	44468.0	36823.0
46	46568.0	40672.0	47	46608.0	41680.0	48	42292.0	44235.0
49	49400.0	47622.0	50	45620.0	16692.0	51	47996.0	19781.0
52	48252.0	21223.0	53	48496.0	21939.0	54	50312.0	26836.0
55	50104.0	33722.0	56	53752.0	40648.0	57	53700.0	41628.0
58	57948.0	47369.0	59	50488.0	14394.0	60	51512.0	16957.0
61	53088.0	18994.0	62	53408.0	19729.0	63	55548.0	24956.0
64	55840.0	32585.0	65	55320.0	35694.0	66	56096.0	17620.0
67	56304.0	18468.0	68	58716.0	25024.0	69	60300.0	28246.0
70	57952.0	35051.0	71	60148.0	37570.0	72	60068.0	38253.0
73	59708.0	40921.0	74	59600.0	41672.0	75	66604.0	41813.0
76	64359.0	47144.0	77	60152.0	10015.0	78	57572.0	14534.0
79	62620.0	22268.0	80	63044.0	26896.0	81	63520.0	33617.0
82	68348.0	37948.0	83	68340.0	38655.0	84	66648.0	41037.0
85	61820.0	13084.0	86	62916.0	14623.0	87	63240.0	15322.0
88	64308.0	16925.0	89	67100.0	20171.0	90	67704.0	24582.0
91	69736.0	28788.0	92	71008.0	32002.0	93	78184.0	42078.0
94	71156.0	44605.0	95	76236.0	47658.0	96	66768.0	6974.0
97	69616.0	11562.0	98	69904.0	12313.0	99	68724.0	15784.0
100	72836.0	20946.0	101	76608.0	25454.0	102	77244.0	29700.0

103	76984.0	35168.0	104	78156.0	38342.0	105	78168.0	39001.0
106	78176.0	41250.0	107	88944.0	41491.0	108	88916.0	42287.0
109	83476.0	48096.0	110	72720.0	6934.0	111	72956.0	13687.0
112	78820.0	20079.0	113	80760.0	23501.0	114	83676.0	28555.0
115	82512.0	34389.0	116	76484.0	8573.0	117	76748.0	9256.0
118	78540.0	13546.0	119	81852.0	18206.0	120	84432.0	21850.0
121	86512.0	26273.0	122	90004.0	32034.0	123	91456.0	37273.0
124	91876.0	41817.0	125	92508.0	48574.0	126	83336.0	7584.0
127	84564.0	11706.0	128	85684.0	15748.0	129	88468.0	19910.0
130	91216.0	24020.0	131	95532.0	30423.0	132	97956.0	39346.0
133	99180.0	43155.0	134	84248.0	7536.0	135	85448.0	11738.0
136	86648.0	15575.0	137	89248.0	19536.0	138	92084.0	23682.0
139	96380.0	30186.0	140	98772.0	39246.0	141	99956.0	43126.0
142	101112.0	49293.0	143	90008.0	9007.0	144	94128.0	13610.0
145	97412.0	19608.0	146	100920.0	26386.0	147	101132.0	31657.0
148	100512.0	37398.0	149	91392.0	9256.0	150	94976.0	13136.0
151	98280.0	19195.0	152	101780.0	26438.0	153	102008.0	31673.0
154	101420.0	37494.0	155	100920.0	43203.0	156	105224.0	43982.0
157	105720.0	46497.0	158	105888.0	47361.0	159	106288.0	49602.0
160	95684.0	10188.0	161	100532.0	15049.0	162	105796.0	21111.0
163	102612.0	25562.0	164	108828.0	25269.0	165	107256.0	30861.0
166	106636.0	31580.0	167	111416.0	31191.0	168	111296.0	35409.0
169	111232.0	36526.0	170	111164.0	43837.0	171	112224.0	37381.0
172	112144.0	43576.0	173	112144.0	44320.0	174	120388.0	44749.0
175	121528.0	45798.0	176	123872.0	47863.0	177	122012.0	50615.0
178	125484.0	54054.0						

ELEMENT INCIDENCES

ELE	CORNERS			ELE	CORNERS			ELE	CORNERS		
1	1	4	2	2	4	5	2	3	5	6	2
4	8	9	3	5	4	11	5	6	5	11	6
7	11	17	6	8	17	12	6	9	6	12	7
10	12	13	7	11	7	13	8	12	8	13	14
13	8	14	9	14	14	15	9	15	9	15	10
16	11	16	17	17	17	18	12	18	18	19	13
19	12	18	13	20	13	19	20	21	13	20	14
22	20	29	14	23	29	30	14	24	14	21	15
25	21	22	15	26	22	23	15	27	24	25	16
28	16	25	17	29	17	25	18	30	25	26	18
31	26	27	18	32	18	27	19	33	19	27	28
34	19	28	29	35	19	29	20	36	21	31	22
37	22	31	32	38	22	32	23	39	32	33	23
40	33	44	23	41	24	34	25	42	34	35	26
43	25	34	26	44	27	39	28	45	29	40	30
46	30	40	31	47	40	41	31	48	31	41	42
49	31	42	32	50	41	43	42	51	43	44	33
52	35	36	26	53	36	37	27	54	26	36	27
55	37	38	27	56	27	38	39	57	40	47	41

58	41	47	48
61	48	49	44
64	36	50	51
67	36	53	37
70	38	54	55
73	45	55	56
76	48	47	49
79	51	60	61
82	52	61	53
85	54	63	64
88	55	65	56
91	57	58	49
94	60	78	66
97	61	67	62
100	63	68	64
103	56	72	73
106	57	74	58
109	66	78	86
112	67	87	88
115	68	79	69
118	69	80	81
121	70	81	71
124	73	84	74
127	77	96	85
130	87	98	88
133	79	90	80
136	81	91	92
139	71	82	83
142	85	96	97
145	88	99	89
148	90	100	101
151	91	102	92
154	82	103	104
157	83	105	84
160	84	106	93
163	76	94	95
166	97	110	116
169	98	117	111
172	111	112	100
175	101	113	114
178	102	115	103
181	105	107	106
184	116	126	117
187	118	119	112
190	113	120	114
193	115	123	107
196	93	108	109
199	118	126	127
202	119	128	120
205	120	130	121
208	114	121	122
211	107	124	108

59	41	48	43
62	34	50	35
65	36	51	52
68	37	53	54
71	39	38	45
74	45	56	46
77	50	59	60
80	51	61	52
83	53	62	54
86	54	64	55
89	47	56	57
92	59	77	78
95	60	66	61
98	62	67	63
101	64	70	65
104	56	73	74
107	78	77	85
110	86	87	67
113	67	88	79
116	79	80	69
119	64	69	81
122	71	83	72
125	74	75	58
128	85	97	86
131	88	89	79
134	80	90	81
137	81	92	82
140	72	83	84
143	86	97	98
146	89	99	100
149	90	101	91
152	92	102	103
155	82	104	83
158	84	105	106
161	75	93	94
164	94	93	95
167	98	116	117
170	99	98	111
173	100	112	101
176	101	114	102
179	103	115	104
182	106	107	93
185	117	118	111
188	112	119	120
191	114	122	115
194	105	115	107
197	109	108	125
200	118	127	128
203	120	128	129
206	120	121	114
209	122	131	123
212	108	124	125

60	43	48	44
63	35	50	36
66	36	52	53
69	37	54	38
72	38	55	45
75	46	56	47
78	50	60	51
81	61	62	53
84	62	63	54
87	55	64	65
90	47	57	49
93	59	78	60
96	61	66	67
99	67	68	63
102	65	72	56
105	56	74	57
108	78	85	86
111	66	86	67
114	67	79	68
117	68	69	64
120	64	81	70
123	72	84	73
126	75	76	58
129	86	98	87
132	79	89	90
135	81	90	91
138	81	82	71
141	74	84	75
144	88	98	99
147	89	100	90
150	91	101	102
153	92	103	82
156	83	104	105
159	84	93	75
162	76	75	94
165	96	110	97
168	97	116	98
171	99	111	100
174	112	113	101
177	102	114	115
180	104	115	105
183	93	109	95
186	111	118	112
189	112	120	113
192	115	122	123
195	93	107	108
198	117	126	118
201	118	128	119
204	120	129	130
207	121	130	122
210	123	124	107
213	126	144	135

214	126	135	127	215	127	135	128	216	135	136	128
217	128	136	137	218	128	137	129	219	129	137	130
220	137	138	130	221	130	138	139	222	130	139	131
223	130	131	122	224	131	139	132	225	139	140	132
226	131	132	123	227	123	132	124	228	132	140	141
229	132	141	133	230	124	132	133	231	124	133	125
232	125	133	142	233	133	141	142	234	134	143	135
235	135	143	144	236	135	144	136	237	136	144	137
238	137	144	145	239	137	145	138	240	138	145	146
241	138	146	139	242	139	146	147	243	139	147	148
244	139	148	140	245	140	148	141	246	143	149	144
247	149	150	144	248	144	150	151	249	144	151	145
250	145	151	152	251	145	152	146	252	146	152	147
253	152	153	147	254	147	153	154	255	147	154	148
256	148	154	141	257	154	155	141	258	141	155	142
259	149	160	150	260	150	160	161	261	150	161	151
262	151	161	162	263	151	162	163	264	151	163	152
265	152	166	153	266	153	166	154	267	154	166	169
268	154	169	156	269	154	156	155	270	155	156	142
271	162	164	163	272	163	164	165	273	152	163	165
274	152	165	166	275	164	167	165	276	165	167	168
277	165	168	169	278	166	165	169	279	169	170	156
280	156	170	157	281	156	157	142	282	142	157	158
283	142	158	159	284	169	171	172	285	169	172	170
286	170	172	173	287	170	173	157	288	157	173	158
289	171	174	172	290	172	174	173	291	173	174	175
292	158	173	177	293	158	177	159	294	173	175	177
295	175	176	177	296	178	177	176				

BLOCK ADJUSTMENT INDEX FOR TRANSMISSIVITY

1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1.000	1.000	1.000	1.000	1.000	1.000	1.000			

ELEMENT TRANSMISSIVITY

MULTIPLICATION FACTOR FOR T .1E+01

ELE	VALUE	ELE	VALUE	ELE	VALUE	ELE	VALUE	ELE	VALUE
1	.0222	2	.0222	3	.0222	4	.0149	5	.0333
6	.0444	7	.0444	8	.1110	9	.0222	10	.0003
11	.0003	12	.0345	13	.0149	14	.0068	15	.0027
16	.0333	17	.1110	18	.0003	19	.0003	20	.0689
21	.0689	22	.0689	23	.0230	24	.0068	25	.0068
26	.0055	27	.0666	28	.0666	29	.1110	30	.0555
31	.0003	32	.0003	33	.0689	34	.0689	35	.0689
36	.0137	37	.0137	38	.0055	39	.0055	40	.0055
41	.0222	42	.0222	43	.0222	44	.0580	45	.0230

46	.0509	47	.0575	48	.0273	49	.0273	50	.0273
51	.0055	52	.0222	53	.0052	54	.0052	55	.0919
56	.0919	57	.0575	58	.0273	59	.0273	60	.0055
61	.0055	62	.0414	63	.0414	64	.0414	65	.0414
66	.0500	67	.0500	68	.2767	69	.2767	70	.2767
71	.0690	72	.0901	73	.1442	74	.1802	75	.0077
76	.0273	77	.0414	78	.0414	79	.0750	80	.0750
81	.0750	82	.0750	83	.5124	84	.5124	85	.5124
86	.3075	87	.1538	88	.1442	89	.0077	90	.0600
91	.0600	92	.0331	93	.0331	94	.0750	95	.0750
96	.1000	97	.1000	98	.4400	99	.4400	100	.4100
101	.1281	102	.1442	103	.1442	104	.0077	105	.0077
106	.0600	107	.0331	108	.0750	109	.0750	110	.1000
111	.1000	112	.4400	113	.4400	114	.4400	115	.4100
116	.4100	117	.4100	118	.4100	119	.4100	120	.2300
121	.0935	122	.0284	123	.1442	124	.0077	125	.0205
126	.0273	127	.0331	128	.0750	129	.0750	130	.4100
131	.4100	132	.4100	133	.4100	134	.4100	135	.4100
136	.1869	137	.1869	138	.0935	139	.0284	140	.1442
141	.0077	142	.0331	143	.0750	144	.3587	145	.4100
146	.4100	147	.4100	148	.4100	149	.4100	150	.2103
151	.1869	152	.1402	153	.1367	154	.1168	155	.0284
156	.0284	157	.1442	158	.1442	159	.0077	160	.0077
161	.0341	162	.0205	163	.0205	164	.0205	165	.0250
166	.0250	167	.0500	168	.0500	169	.0768	170	.2400
171	.3075	172	.2562	173	.3070	174	.1869	175	.2300
176	.2300	177	.1869	178	.1168	179	.0935	180	.0935
181	.0935	182	.0077	183	.0200	184	.0350	185	.0768
186	.2050	187	.0818	188	.1168	189	.1402	190	.1402
191	.1636	192	.1402	193	.0935	194	.0935	195	.0077
196	.0200	197	.0200	198	.0400	199	.0400	200	.0400
201	.0700	202	.0935	203	.0935	204	.0935	205	.0935
206	.0935	207	.0935	208	.0935	209	.0700	210	.0700
211	.0700	212	.0200	213	.0055	214	.0055	215	.0055
216	.0055	217	.0062	218	.0062	219	.0062	220	.0062
221	.0062	222	.0062	223	.0700	224	.0062	225	.0062
226	.0701	227	.0700	228	.0289	229	.0289	230	.0701
231	.0200	232	.0200	233	.0200	234	.0230	235	.0230
236	.0522	237	.0697	238	.0697	239	.0870	240	.0870
241	.0870	242	.0870	243	.1044	244	.1044	245	.0283
246	.0010	247	.0010	248	.0006	249	.0006	250	.0006
251	.0007	252	.0041	253	.0041	254	.0077	255	.0077
256	.0283	257	.0289	258	.0289	259	.1080	260	.0126
261	.0090	262	.0090	263	.0090	264	.0012	265	.0113
266	.0113	267	.0225	268	.0270	269	.0270	270	.0180
271	.0090	272	.0090	273	.0015	274	.0015	275	.0090
276	.0090	277	.0008	278	.0008	279	.0180	280	.0180
281	.0180	282	.0050	283	.0019	284	.0009	285	.0009
286	.0008	287	.0008	288	.0008	289	.0068	290	.0050
291	.0050	292	.0120	293	.0017	294	.0120	295	.0120
296	.0120								

BLOCK ADJUSTMENT INDEX FOR STORAGE COEFFICIENT

100.000 10.000 1.000 1.000 .010 .001

ELEMENT STORAGE COEFFICIENT

MULTIPLICATION FACTOR FOR S .1E-03

ELE	VALUE	ELE	VALUE	ELE	VALUE	ELE	VALUE	ELE	VALUE
1	.10000	2	.10000	3	.10000	4	.10000	5	.01000
6	.01000	7	.01000	8	.01000	9	.10000	10	.10000
11	.10000	12	.10000	13	.10000	14	.10000	15	.10000
16	.00001	17	.01000	18	.01000	19	.01000	20	.01000
21	.01000	22	.01000	23	.01000	24	.01000	25	.01000
26	.01000	27	.00001	28	.00001	29	.00001	30	.00001
31	.00100	32	.00100	33	.00100	34	.00100	35	.01000
36	.01000	37	.01000	38	.01000	39	.01000	40	.01000
41	.00001	42	.00001	43	.00001	44	.00100	45	.00100
46	.00100	47	.00100	48	.00100	49	.01000	50	.00100
51	.01000	52	.00001	53	.00001	54	.00001	55	.00001
56	.00001	57	.00100	58	.00100	59	.00100	60	.01000
61	.01000	62	.00001	63	.00001	64	.00001	65	.00001
66	.00001	67	.00001	68	.00001	69	.00001	70	.00001
71	.00001	72	.00001	73	.00001	74	.00100	75	.00100
76	.00100	77	.00001	78	.00001	79	.00000	80	.00000
81	.00000	82	.00000	83	.00000	84	.00000	85	.00000
86	.00001	87	.00001	88	.00001	89	.00100	90	.00100
91	.00100	92	.00000	93	.00000	94	.00000	95	.00000
96	.00000	97	.00000	98	.00000	99	.00000	100	.00000
101	.00001	102	.00001	103	.00100	104	.00100	105	.00100
106	.00100	107	.00000	108	.00000	109	.00000	110	.00000
111	.00000	112	.00000	113	.00000	114	.00000	115	.00000
116	.00000	117	.00000	118	.00000	119	.00000	120	.00001
121	.00001	122	.00100	123	.00100	124	.00100	125	.00100
126	.00100	127	.00000	128	.00000	129	.00000	130	.00000
131	.00000	132	.00000	133	.00000	134	.00000	135	.00001
136	.00001	137	.00001	138	.00001	139	.00100	140	.00100
141	.00100	142	.00000	143	.00000	144	.00000	145	.00000
146	.00000	147	.00000	148	.00000	149	.00000	150	.00001
151	.00001	152	.00001	153	.00001	154	.00100	155	.00100
156	.00100	157	.00100	158	.00100	159	.00100	160	.00100
161	.00100	162	.00100	163	.01000	164	.01000	165	.00001
166	.00001	167	.00001	168	.00001	169	.00001	170	.00000
171	.00000	172	.00001	173	.00001	174	.00001	175	.00001
176	.00001	177	.00100	178	.00100	179	.00100	180	.00100
181	.00100	182	.00100	183	.01000	184	.00001	185	.00001
186	.00001	187	.00001	188	.00001	189	.00001	190	.00001
191	.00100	192	.00100	193	.00100	194	.00100	195	.01000
196	.01000	197	.01000	198	.00001	199	.00001	200	.00001

201	.01000	202	.01000	203	.00100	204	.00100	205	.00100
206	.00100	207	.00100	208	.00100	209	.00100	210	.01000
211	.01000	212	.01000	213	.01000	214	.01000	215	.01000
216	.01000	217	.01000	218	.01000	219	.01000	220	.01000
221	.01000	222	.01000	223	.00100	224	.01000	225	.01000
226	.01000	227	.01000	228	.01000	229	.01000	230	.01000
231	.01000	232	.10000	233	.10000	234	.01000	235	.01000
236	.01000	237	.01000	238	.01000	239	.01000	240	.01000
241	.01000	242	.01000	243	.01000	244	.01000	245	.01000
246	.01000	247	.01000	248	.01000	249	.01000	250	.01000
251	.01000	252	.01000	253	.01000	254	.01000	255	.01000
256	.01000	257	.01000	258	.10000	259	.10000	260	.10000
261	.10000	262	.10000	263	.10000	264	.10000	265	.10000
266	.10000	267	.10000	268	.10000	269	.10000	270	.10000
271	.10000	272	.10000	273	.10000	274	.10000	275	.10000
276	.10000	277	.10000	278	.10000	279	.10000	280	.10000
281	.10000	282	.10000	283	.10000	284	.10000	285	.10000
286	.10000	287	.10000	288	.10000	289	.10000	290	.10000
291	.10000	292	.10000	293	.10000	294	.10000	295	.10000
296	.10000								

LEAKY ELEMENTS

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100
101	102	103	104	105	106	107	108	109	110
111	112	113	114	115	116	117	118	119	120
121	122	123	124	125	126	127	128	129	130
131	132	133	134	135	136	137	138	139	140
141	142	143	144	145	146	147	148	149	150
151	152	153	154	155	156	157	158	159	160
161	162	163	164	165	166	167	168	169	170
171	172	173	174	175	176	177	178	179	180
181	182	183	184	185	186	187	188	189	190
191	192	193	194	195	196	197	198	199	200
201	202	203	204	205	206	207	208	209	210
211	212	213	214	215	216	217	218	219	220
221	222	223	224	225	226	227	228	229	230
231	232	233	234	235	236	237	238	239	240
241	242	243	244	245	246	247	248	249	250
251	252	253	254	255	256	257	258	259	260
261	262	263	264	265	266	267	268	269	270
271	272	273	274	275	276	277	278	279	280
281	282	283	284	285	286	287	288	289	290
291	292	293	294	295	296				

INITIAL WATER LEVELS

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	1950.0	2	1910.0	3	1810.0	4	1600.0	5	1500.0
6	1420.0	7	1500.0	8	1650.0	9	1750.0	10	1700.0
11	1400.0	12	1400.0	13	1475.0	14	1575.0	15	1550.0
16	1330.0	17	1330.0	18	1300.0	19	1275.0	20	1375.0
21	1450.0	22	1475.0	23	1500.0	24	1210.0	25	1210.0
26	1150.0	27	1025.0	28	1150.0	29	1225.0	30	1325.0
31	1450.0	32	1475.0	33	1500.0	34	1190.0	35	1190.0
36	1135.0	37	1010.0	38	1140.0	39	1225.0	40	1325.0
41	1330.0	42	1380.0	43	1340.0	44	1050.0	45	1050.0
46	1050.0	47	1015.0	48	1015.0	49	1035.0	50	975.0
51	990.0	52	990.0	53	995.0	54	990.0	55	985.0
56	1020.0	57	1025.0	58	1180.0	59	1210.0	60	1000.0
61	980.0	62	980.0	63	985.0	64	985.0	65	945.0
66	970.0	67	1025.0	68	960.0	69	960.0	70	985.0
71	995.0	72	1000.0	73	1025.0	74	1030.0	75	1025.0
76	1125.0	77	960.0	78	960.0	79	970.0	80	1000.0
81	975.0	82	1010.0	83	1015.0	84	1020.0	85	960.0
86	960.0	87	960.0	88	960.0	89	965.0	90	970.0
91	970.0	92	980.0	93	1050.0	94	1060.0	95	1175.0
96	980.0	97	975.0	98	975.0	99	975.0	100	1005.0
101	1015.0	102	1020.0	103	1025.0	104	1040.0	105	1040.0
106	1045.0	107	1220.0	108	1225.0	109	1260.0	110	970.0
111	990.0	112	1055.0	113	1085.0	114	1120.0	115	1070.0
116	990.0	117	995.0	118	1025.0	119	1080.0	120	1115.0
121	1140.0	122	1170.0	123	1225.0	124	1275.0	125	1300.0
126	1050.0	127	1070.0	128	1095.0	129	1130.0	130	1140.0
131	1210.0	132	1350.0	133	1450.0	134	1060.0	135	1100.0
136	1150.0	137	1180.0	138	1190.0	139	1260.0	140	1390.0
141	1460.0	142	1575.0	143	1200.0	144	1210.0	145	1225.0
146	1290.0	147	1320.0	148	1400.0	149	1300.0	150	1325.0
151	1425.0	152	1350.0	153	1410.0	154	1450.0	155	1500.0
156	1620.0	157	1710.0	158	1750.0	159	1850.0	160	1475.0
161	1520.0	162	1560.0	163	1480.0	164	1590.0	165	1580.0
166	1520.0	167	1650.0	168	1670.0	169	1830.0	170	2010.0
171	1910.0	172	2025.0	173	2030.0	174	2320.0	175	2360.0
176	2440.0	177	2420.0	178	2600.0				

THICKNESS OF CONFINING LAYER

HYDRAULIC CONDUCTIVITY .350E-06
NUMBER OF LEAKY ELEMENTS 296

ELE UPPER	ELE LOWER	VALUE	ELE UPPER	ELE LOWER	VALUE	ELE UPPER	ELE LOWER	VALUE	ELE UPPER	ELE LOWER	VALUE
1	1	1.0	2	2	1.0	3	3	1.0	4	4	1.0
5	5	1.0	6	6	1.0	7	7	1.0	8	8	1.0
9	9	1.0	10	10	1.0	11	11	1.0	12	12	1.0
13	13	1.0	14	14	1.0	15	15	1.0	16	16	1.0
17	17	1.0	18	18	1.0	19	19	1.0	20	20	1.0
21	21	1.0	22	22	1.0	23	23	1.0	24	24	1.0
25	25	1.0	26	26	1.0	27	27	1.0	28	28	1.0
29	29	1.0	30	30	1.0	31	31	1.0	32	32	1.0
33	33	1.0	34	34	1.0	35	35	1.0	36	36	1.0
37	37	1.0	38	38	1.0	39	39	1.0	40	40	1.0
41	41	25.0	42	42	25.0	43	43	25.0	44	44	1.0
45	45	1.0	46	46	1.0	47	47	1.0	48	48	1.0
49	49	1.0	50	50	1.0	51	51	1.0	52	52	25.0
53	53	50.0	54	54	25.0	55	55	50.0	56	56	25.0
57	57	1.0	58	58	1.0	59	59	1.0	60	60	1.0
61	61	1.0	62	62	100.0	63	63	100.0	64	64	150.0
65	65	150.0	66	66	150.0	67	67	150.0	68	68	150.0
69	69	100.0	70	70	100.0	71	71	25.0	72	72	50.0
73	73	25.0	74	74	1.0	75	75	1.0	76	76	1.0
77	77	200.0	78	78	200.0	79	79	200.0	80	80	200.0
81	81	200.0	82	82	200.0	83	83	225.0	84	84	250.0
85	85	225.0	86	86	150.0	87	87	150.0	88	88	75.0
89	89	1.0	90	90	1.0	91	91	1.0	92	92	250.0
93	93	250.0	94	94	250.0	95	95	250.0	96	96	250.0
97	97	250.0	98	98	300.0	99	99	300.0	100	100	275.0
101	101	150.0	102	102	25.0	103	103	1.0	104	104	1.0
105	105	1.0	106	106	1.0	107	107	250.0	108	108	250.0
109	109	250.0	110	110	250.0	111	111	250.0	112	112	325.0
113	113	300.0	114	114	300.0	115	115	275.0	116	116	275.0
117	117	275.0	118	118	275.0	119	119	275.0	120	120	200.0
121	121	125.0	122	122	50.0	123	123	1.0	124	124	1.0
125	125	1.0	126	126	1.0	127	127	200.0	128	128	200.0
129	129	200.0	130	130	325.0	131	131	275.0	132	132	250.0
133	133	275.0	134	134	275.0	135	135	200.0	136	136	150.0
137	137	125.0	138	138	100.0	139	139	50.0	140	140	1.0
141	141	1.0	142	142	200.0	143	143	200.0	144	144	300.0
145	145	300.0	146	146	250.0	147	147	225.0	148	148	175.0
149	149	175.0	150	150	125.0	151	151	125.0	152	152	75.0
153	153	75.0	154	154	25.0	155	155	25.0	156	156	25.0
157	157	1.0	158	158	1.0	159	159	1.0	160	160	1.0
161	161	1.0	162	162	1.0	163	163	1.0	164	164	1.0
165	165	150.0	166	166	150.0	167	167	150.0	168	168	150.0

169	169	275.0	170	170	300.0	171	171	275.0	172	172	250.0
173	173	175.0	174	174	125.0	175	175	75.0	176	176	75.0
177	177	50.0	178	178	25.0	179	179	25.0	180	180	25.0
181	181	1.0	182	182	1.0	183	183	1.0	184	184	250.0
185	185	250.0	186	186	225.0	187	187	175.0	188	188	125.0
189	189	125.0	190	190	75.0	191	191	25.0	192	192	1.0
193	193	1.0	194	194	1.0	195	195	1.0	196	196	1.0
197	197	1.0	198	198	250.0	199	199	200.0	200	200	175.0
201	201	150.0	202	202	125.0	203	203	100.0	204	204	50.0
205	205	50.0	206	206	50.0	207	207	25.0	208	208	25.0
209	209	1.0	210	210	1.0	211	211	1.0	212	212	1.0
213	213	1.0	214	214	1.0	215	215	1.0	216	216	1.0
217	217	1.0	218	218	1.0	219	219	1.0	220	220	1.0
221	221	1.0	222	222	1.0	223	223	1.0	224	224	1.0
225	225	1.0	226	226	1.0	227	227	1.0	228	228	1.0
229	229	1.0	230	230	1.0	231	231	1.0	232	232	1.0
233	233	1.0	234	234	1.0	235	235	1.0	236	236	1.0
237	237	1.0	238	238	1.0	239	239	1.0	240	240	1.0
241	241	1.0	242	242	1.0	243	243	1.0	244	244	1.0
245	245	1.0	246	246	1.0	247	247	1.0	248	248	1.0
249	249	1.0	250	250	1.0	251	251	1.0	252	252	1.0
253	253	1.0	254	254	1.0	255	255	1.0	256	256	1.0
257	257	1.0	258	258	1.0	259	259	1.0	260	260	1.0
261	261	1.0	262	262	1.0	263	263	1.0	264	264	1.0
265	265	1.0	266	266	1.0	267	267	1.0	268	268	1.0
269	269	1.0	270	270	1.0	271	271	1.0	272	272	1.0
273	273	1.0	274	274	1.0	275	275	1.0	276	276	1.0
277	277	1.0	278	278	1.0	279	279	1.0	280	280	1.0
281	281	1.0	282	282	1.0	283	283	1.0	284	284	1.0
285	285	1.0	286	286	1.0	287	287	1.0	288	288	1.0
289	289	1.0	290	290	1.0	291	291	1.0	292	292	1.0
293	293	1.0	294	294	1.0	295	295	1.0	296	296	1.0

SOURCE AND SINK DISCHARGE FOR TIME STEPS 1 TO 1

RECHARGE FOR UPPER AQUIFER

TOTAL RECHARGE 1.955E+02

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	2.7400	2	2.7700	3	1.9200	4	0.	5	.3800
6	0.	7	1.1500	8	2.0000	9	2.4600	10	0.
11	5.7700	12	0.	13	.7700	14	1.0800	15	3.3900
16	5.5400	17	4.6200	18	0.	19	0.	20	.7700
21	3.1900	22	6.0400	23	.4300	24	.3100	25	.1500
26	0.	27	0.	28	0.	29	0.	30	.1200
31	2.5400	32	0.	33	1.0800	34	1.1500	35	.2300
36	1.6200	37	1.5400	38	1.0800	39	.7700	40	.8700
41	1.5900	42	1.0800	43	1.0800	44	.6900	45	.7700
46	.2300	47	.7700	48	.9800	49	7.4000	50	1.1500
51	.3800	52	0.	53	.3100	54	0.	55	2.0000
56	1.4900	57	3.1100	58	2.3100	59	-2.0000	60	0.
61	0.	62	0.	63	0.	64	0.	65	1.1300
66	0.	67	0.	68	0.	69	0.	70	0.
71	0.	72	0.	73	0.	74	.7700	75	2.5700
76	2.6900	77	-16.5000	78	0.	79	0.	80	0.
81	.3800	82	0.	83	.5400	84	1.2600	85	0.
86	0.	87	0.	88	0.	89	0.	90	0.
91	1.1500	92	0.	93	1.6200	94	.6200	95	5.3900
96	-2.5000	97	0.	98	0.	99	0.	100	0.
101	.3800	102	0.	103	.7200	104	1.8000	105	3.6000
106	1.0800	107	0.	108	.7700	109	4.2300	110	.6200
111	0.	112	.6900	113	0.	114	1.9200	115	1.8000
116	.3100	117	.3100	118	.7700	119	.7700	120	3.0800
121	2.9300	122	1.4600	123	5.6300	124	0.	125	3.8500
126	.3100	127	.1500	128	1.9200	129	1.9200	130	1.5400
131	.7700	132	5.4000	133	3.6000	134	.3800	135	0.
136	.3800	137	.3800	138	0.	139	0.	140	0.
141	3.6000	142	2.2300	143	1.1500	144	.9200	145	1.1500
146	0.	147	0.	148	.3800	149	0.	150	.6900
151	1.7700	152	0.	153	.1500	154	0.	155	7.2000
156	6.2900	157	2.3400	158	4.0300	159	3.8800	160	0.
161	4.3100	162	2.3600	163	0.	164	2.3400	165	.2300
166	1.6200	167	3.4600	168	.7700	169	2.1600	170	3.5400
171	.3100	172	0.	173	.3100	174	.3100	175	0.
176	1.0800	177	2.6900	178	1.8500				

PUMPAGE FOR UPPER AQUIFER

TOTAL PUMPAGE 4.825E+01

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	-.0900	2	0.	3	-.2600	4	0.	5	0.
6	0.	7	0.	8	0.	9	0.	10	0.
11	2.4500	12	0.	13	0.	14	-.0100	15	.0200
16	1.0800	17	2.1300	18	0.	19	0.	20	0.
21	.2500	22	0.	23	0.	24	0.	25	1.3300
26	0.	27	.0600	28	0.	29	0.	30	0.
31	0.	32	0.	33	0.	34	-.2500	35	0.
36	.0400	37	.1500	38	0.	39	0.	40	0.
41	.7900	42	0.	43	0.	44	0.	45	-.5900
46	0.	47	0.	48	0.	49	0.	50	1.1200
51	0.	52	.0100	53	0.	54	0.	55	-.2800
56	3.7700	57	.0100	58	.0300	59	0.	60	.3200
61	0.	62	.0400	63	-.5200	64	-.1700	65	-.0900
66	.0700	67	.3100	68	-1.8400	69	-.6700	70	-.1200
71	0.	72	0.	73	-.1600	74	.2800	75	.5100
76	0.	77	.2100	78	.2700	79	.0100	80	1.8700
81	-.1600	82	.8700	83	0.	84	.0400	85	2.9000
86	-.4800	87	-.3100	88	-.6200	89	6.8600	90	4.6300
91	0.	92	0.	93	0.	94	.0300	95	.2000
96	0.	97	-.5000	98	1.0200	99	1.9200	100	-.5100
101	2.1800	102	0.	103	.1400	104	0.	105	0.
106	.3300	107	.7900	108	.3700	109	0.	110	0.
111	.5800	112	-.3400	113	1.5100	114	1.6200	115	.1200
116	-0.	117	0.	118	.5800	119	.1900	120	1.2100
121	2.7500	122	.1700	123	0.	124	0.	125	.2100
126	0.	127	.1100	128	.0700	129	1.0100	130	0.
131	1.7200	132	0.	133	0.	134	0.	135	.2600
136	.3000	137	.2200	138	0.	139	1.1600	140	0.
141	0.	142	.1700	143	0.	144	0.	145	0.
146	0.	147	0.	148	.0300	149	0.	150	0.
151	1.3400	152	.2700	153	0.	154	.5400	155	0.
156	0.	157	0.	158	.0300	159	0.	160	0.
161	.1500	162	0.	163	0.	164	.0500	165	.3300
166	-.1000	167	-.1000	168	0.	169	-.0800	170	0.
171	.0300	172	.0400	173	.0700	174	0.	175	.0400
176	0.	177	.1100	178	.1000				

PUMPAGE FOR LOWER AQUIFER

TOTAL PUMPAGE 1.150E+02

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	.4200	2	0.	3	1.1800	4	0.	5	0.
6	0.	7	0.	8	0.	9	0.	10	0.
11	3.0600	12	0.	13	0.	14	.0600	15	.0400
16	.7100	17	2.7200	18	0.	19	0.	20	0.
21	.5200	22	0.	23	0.	24	0.	25	1.8200
26	0.	27	1.7800	28	0.	29	0.	30	0.
31	0.	32	0.	33	0.	34	1.7500	35	.5200
36	.9300	37	.7300	38	0.	39	0.	40	0.
41	6.7500	42	0.	43	0.	44	0.	45	2.6400
46	0.	47	.5100	48	0.	49	0.	50	2.8100
51	0.	52	.0400	53	0.	54	0.	55	1.8400
56	2.5900	57	0.	58	.0600	59	0.	60	.5700
61	0.	62	.0200	63	2.3100	64	1.1200	65	.7100
66	0.	67	.0400	68	6.1400	69	7.7900	70	.5300
71	0.	72	0.	73	.7500	74	1.7300	75	.5700
76	0.	77	.4900	78	3.3900	79	.0300	80	1.0400
81	.5400	82	2.1700	83	0.	84	.0200	85	.3200
86	5.5200	87	2.4600	88	3.3900	89	1.5900	90	.8800
91	0.	92	0.	93	0.	94	.3800	95	.2700
96	0.	97	1.9900	98	1.3200	99	5.5600	100	2.7600
101	.8200	102	0.	103	1.5900	104	0.	105	0.
106	.5400	107	.6200	108	.5600	109	0.	110	0.
111	1.5900	112	3.2200	113	.4400	114	.7500	115	.0900
116	.0100	117	0.	118	.2800	119	.1000	120	.1100
121	.5700	122	1.9200	123	0.	124	0.	125	.2800
126	0.	127	.4800	128	.5700	129	.7500	130	0.
131	.8800	132	0.	133	0.	134	0.	135	.0600
136	.3700	137	.5300	138	0.	139	1.1800	140	0.
141	0.	142	.0200	143	0.	144	0.	145	0.
146	0.	147	0.	148	.0600	149	0.	150	0.
151	.6000	152	.1500	153	0.	154	.3200	155	0.
156	0.	157	0.	158	0.	159	0.	160	0.
161	.0800	162	0.	163	0.	164	.1200	165	.1200
166	1.4300	167	1.0600	168	0.	169	.4000	170	0.
171	.2200	172	.0900	173	1.0000	174	0.	175	.1000
176	0.	177	.7800	178	.2400				

MULTIPLICATION FACTORS FOR SOURCE AND SINK DISCHARGE

STEP	UPPER AQUIFER		LOWER AQUIFER	
	RECHARGE	PUMPAGE	RECHARGE	PUMPAGE
1	-1.0000	1.0000	-1.0000	1.0000

SOURCE AND SINK DISCHARGE FOR TIME STEPS 2 TO 2

RECHARGE FOR UPPER AQUIFER

TOTAL RECHARGE 1.995E+02

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	2.7400	2	2.7700	3	1.9200	4	0.	5	.3800
6	0.	7	1.1500	8	2.0000	9	2.4600	10	0.
11	5.7700	12	0.	13	.7700	14	1.0800	15	3.5100
16	5.5400	17	4.6200	18	0.	19	0.	20	.7700
21	3.3500	22	6.3200	23	.4300	24	.3100	25	.1500
26	0.	27	0.	28	0.	29	0.	30	.1200
31	2.6600	32	0.	33	1.1400	34	1.1500	35	.2300
36	1.6200	37	1.5400	38	1.0800	39	.7700	40	.9100
41	1.6700	42	1.1400	43	1.1400	44	.6900	45	.7700
46	.2300	47	.7700	48	1.0000	49	7.6400	50	1.1500
51	.3800	52	0.	53	.3100	54	0.	55	2.0000
56	1.5300	57	3.2100	58	2.3100	59	-2.0000	60	0.
61	0.	62	0.	63	0.	64	0.	65	1.1500
66	0.	67	0.	68	0.	69	0.	70	0.
71	0.	72	0.	73	0.	74	.7700	75	2.6700
76	2.6900	77	-16.5000	78	0.	79	0.	80	0.
81	.3800	82	0.	83	.5700	84	1.3300	85	0.
86	0.	87	0.	88	0.	89	0.	90	0.
91	1.1500	92	0.	93	1.6200	94	.6200	95	5.3900
96	-2.5000	97	0.	98	0.	99	0.	100	0.
101	.3800	102	0.	103	.7600	104	1.9000	105	3.8000
106	1.1400	107	0.	108	.7700	109	4.2300	110	.6200
111	0.	112	.6900	113	0.	114	1.9200	115	1.9000
116	.3100	117	.3100	118	.7700	119	.7700	120	3.0800
121	2.9300	122	1.4600	123	5.9300	124	0.	125	3.8500
126	.3100	127	.1500	128	1.9200	129	1.9200	130	1.5400
131	.7700	132	5.7000	133	3.8000	134	.3800	135	0.
136	.3800	137	.3800	138	0.	139	0.	140	0.
141	3.8000	142	2.2300	143	1.1500	144	.9200	145	1.1500
146	0.	147	0.	148	.3800	149	0.	150	.6900
151	1.7700	152	0.	153	.1500	154	0.	155	7.6000
156	6.4900	157	2.4400	158	4.1300	159	3.9800	160	0.
161	4.3100	162	2.3600	163	0.	164	2.3400	165	.2300
166	1.6200	167	3.4600	168	.7700	169	2.1600	170	3.5400
171	.3100	172	0.	173	.3100	174	.3100	175	0.
176	1.0800	177	2.6900	178	1.8500				

PUMPAGE FOR UPPER AQUIFER

TOTAL PUMPAGE 4.825E+01

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	-.0900	2	0.	3	-.2600	4	0.	5	0.
6	0.	7	0.	8	0.	9	0.	10	0.
11	2.4500	12	0.	13	0.	14	-.0100	15	.0200
16	1.0800	17	2.1300	18	0.	19	0.	20	0.
21	.2500	22	0.	23	0.	24	0.	25	1.3300
26	0.	27	.0600	28	0.	29	0.	30	0.
31	0.	32	0.	33	0.	34	-.2500	35	0.
36	.0400	37	.1500	38	0.	39	0.	40	0.
41	.7900	42	0.	43	0.	44	0.	45	-.5900
46	0.	47	0.	48	0.	49	0.	50	1.1200
51	0.	52	.0100	53	0.	54	0.	55	-.2800
56	3.7700	57	.0100	58	.0300	59	0.	60	.3200
61	0.	62	.0400	63	-.5200	64	-.1700	65	-.0900
66	.0700	67	.3100	68	-1.8400	69	-.6700	70	-.1200
71	0.	72	0.	73	-.1600	74	.2800	75	.5100
76	0.	77	.2100	78	.2700	79	.0100	80	1.8700
81	-.1600	82	.8700	83	0.	84	.0400	85	2.9000
86	-.4800	87	-.3100	88	-.6200	89	6.8600	90	4.6300
91	0.	92	0.	93	0.	94	.0300	95	.2000
96	0.	97	-.5000	98	1.0200	99	1.9200	100	-.5100
101	2.1800	102	0.	103	.1400	104	0.	105	0.
106	.3300	107	.7900	108	.3700	109	0.	110	0.
111	.5800	112	-.3400	113	1.5100	114	1.6200	115	.1200
116	-0.	117	0.	118	.5800	119	.1900	120	1.2100
121	2.7500	122	.1700	123	0.	124	0.	125	.2100
126	0.	127	.1100	128	.0700	129	1.0100	130	0.
131	1.7200	132	0.	133	0.	134	0.	135	.2600
136	.3000	137	.2200	138	0.	139	1.1600	140	0.
141	0.	142	.1700	143	0.	144	0.	145	0.
146	0.	147	0.	148	.0300	149	0.	150	0.
151	1.3400	152	.2700	153	0.	154	.5400	155	0.
156	0.	157	0.	158	.0300	159	0.	160	0.
161	.1500	162	0.	163	0.	164	.0500	165	.3300
166	-.1000	167	-.1000	168	0.	169	-.0800	170	0.
171	.0300	172	.0400	173	.0700	174	0.	175	.0400
176	0.	177	.1100	178	.1000				

PUMPAGE FOR LOWER AQUIFER

TOTAL PUMPAGE 1.150E+02

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	.4200	2	0.	3	1.1800	4	0.	5	0.
6	0.	7	0.	8	0.	9	0.	10	0.
11	3.0600	12	0.	13	0.	14	.0600	15	.0400
16	.7100	17	2.7200	18	0.	19	0.	20	0.
21	.5200	22	0.	23	0.	24	0.	25	1.8200
26	0.	27	1.7800	28	0.	29	0.	30	0.
31	0.	32	0.	33	0.	34	1.7500	35	.5200
36	.9300	37	.7300	38	0.	39	0.	40	0.
41	6.7500	42	0.	43	0.	44	0.	45	2.6400
46	0.	47	.5100	48	0.	49	0.	50	2.8100
51	0.	52	.0400	53	0.	54	0.	55	1.8400
56	2.5900	57	0.	58	.0600	59	0.	60	.5700
61	0.	62	.0200	63	2.3100	64	1.1200	65	.7100
66	0.	67	.0400	68	6.1400	69	7.7900	70	.5300
71	0.	72	0.	73	.7500	74	1.7300	75	.5700
76	0.	77	.4900	78	3.3900	79	.0300	80	1.0400
81	.5400	82	2.1700	83	0.	84	.0200	85	.3200
86	5.5200	87	2.4600	88	3.3900	89	1.5900	90	.8800
91	0.	92	0.	93	0.	94	.3800	95	.2700
96	0.	97	1.9900	98	1.3200	99	5.5600	100	2.7600
101	.8200	102	0.	103	1.5900	104	0.	105	0.
106	.5400	107	.6200	108	.5600	109	0.	110	0.
111	1.5900	112	3.2200	113	.4400	114	.7500	115	.0900
116	.0100	117	0.	118	.2800	119	.1000	120	.1100
121	.5700	122	1.9200	123	0.	124	0.	125	.2800
126	0.	127	.4800	128	.5700	129	.7500	130	0.
131	.9800	132	0.	133	0.	134	0.	135	.0600
136	.3700	137	.5300	138	0.	139	1.1800	140	0.
141	0.	142	.0200	143	0.	144	0.	145	0.
146	0.	147	0.	148	.0600	149	0.	150	0.
151	.6000	152	.1500	153	0.	154	.3200	155	0.
156	0.	157	0.	158	0.	159	0.	160	0.
161	.0800	162	0.	163	0.	164	.1200	165	.1200
166	1.4300	167	1.0600	168	0.	169	.4000	170	0.
171	.2200	172	.0900	173	1.0000	174	0.	175	.1000
176	0.	177	.7800	178	.2400				

MULTIPLICATION FACTORS FOR SOURCE AND SINK DISCHARGE

STEP	UPPER AQUIFER		LOWER AQUIFER	
	RECHARGE	PUMPAGE	RECHARGE	PUMPAGE
2	-1.0000	1.0000	-1.0000	1.0000

SOURCE AND SINK DISCHARGE FOR TIME STEPS 3 TO 3

RECHARGE FOR UPPER AQUIFER

TOTAL RECHARGE 2.024E+02

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	2.7400	2	2.7700	3	1.9200	4	0.	5	.3800
6	0.	7	1.1500	8	2.0000	9	2.4600	10	0.
11	5.7700	12	0.	13	.7700	14	1.0800	15	3.6000
16	5.5400	17	4.6200	18	0.	19	0.	20	.7700
21	3.4700	22	6.5300	23	.4300	24	.3100	25	.1500
26	0.	27	0.	28	0.	29	0.	30	.1200
31	2.7500	32	0.	33	1.1800	34	1.1500	35	.2300
36	1.6200	37	1.5400	38	1.0800	39	.7700	40	.9400
41	1.7300	42	1.1800	43	1.1800	44	.6900	45	.7700
46	.2300	47	.7700	48	1.0100	49	7.8200	50	1.1500
51	.3800	52	0.	53	.3100	54	0.	55	2.0000
56	1.5600	57	3.2800	58	2.3100	59	-2.0000	60	0.
61	0.	62	0.	63	0.	64	0.	65	1.1600
66	0.	67	0.	68	0.	69	0.	70	0.
71	0.	72	0.	73	0.	74	.7700	75	2.7400
76	2.6900	77	-16.5000	78	0.	79	0.	80	0.
81	.3800	82	0.	83	.5900	84	1.3800	85	0.
86	0.	87	0.	88	0.	89	0.	90	0.
91	1.1500	92	0.	93	1.6200	94	.6200	95	5.3900
96	-2.5000	97	0.	98	0.	99	0.	100	0.
101	.3800	102	0.	103	.7900	104	1.9700	105	3.9500
106	1.1800	107	0.	108	.7700	109	4.2300	110	.6200
111	0.	112	.6900	113	0.	114	1.9200	115	1.9700
116	.3100	117	.3100	118	.7700	119	.7700	120	3.0800
121	2.9300	122	1.4600	123	6.1500	124	0.	125	3.8500
126	.3100	127	.1500	128	1.9200	129	1.9200	130	1.5400
131	.7700	132	5.9200	133	3.9500	134	.3800	135	0.
136	.3800	137	.3800	138	0.	139	0.	140	0.
141	3.9500	142	2.2300	143	1.1500	144	.9200	145	1.1500
146	0.	147	0.	148	.3800	149	0.	150	.6900
151	1.7700	152	0.	153	.1500	154	0.	155	7.9000
156	6.6400	157	2.5100	158	4.2000	159	4.0500	160	0.
161	4.3100	162	2.3600	163	0.	164	2.3400	165	.2300
166	1.6200	167	3.4600	168	.7700	169	2.1600	170	3.5400
171	.3100	172	0.	173	.3100	174	.3100	175	0.
176	1.0800	177	2.6900	178	1.8500				

PUMPAGE FOR UPPER AQUIFER

TOTAL PUMPAGE 4.825E+01

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	-.0900	2	0.	3	-.2600	4	0.	5	0.
6	0.	7	0.	8	0.	9	0.	10	0.
11	2.4500	12	0.	13	0.	14	-.0100	15	.0200
16	1.0800	17	2.1300	18	0.	19	0.	20	0.
21	.2500	22	0.	23	0.	24	0.	25	1.3300
26	0.	27	.0600	28	0.	29	0.	30	0.
31	0.	32	0.	33	0.	34	-.2500	35	0.
36	.0400	37	.1500	38	0.	39	0.	40	0.
41	.7900	42	0.	43	0.	44	0.	45	-.5900
46	0.	47	0.	48	0.	49	0.	50	1.1200
51	0.	52	.0100	53	0.	54	0.	55	-.2800
56	3.7700	57	.0100	58	.0300	59	0.	60	.3200
61	0.	62	.0400	63	-.5200	64	-.1700	65	-.0900
66	.0700	67	.3100	68	-1.8400	69	-.6700	70	-.1200
71	0.	72	0.	73	-.1600	74	.2800	75	.5100
76	0.	77	.2100	78	.2700	79	.0100	80	1.8700
81	-.1600	82	.8700	83	0.	84	.0400	85	2.9000
86	-.4800	87	-.3100	88	-.6200	89	6.8600	90	4.6300
91	0.	92	0.	93	0.	94	.0300	95	.2000
96	0.	97	-.5000	98	1.0200	99	1.9200	100	-.5100
101	2.1800	102	0.	103	.1400	104	0.	105	0.
106	.3300	107	.7900	108	.3700	109	0.	110	0.
111	.5800	112	-.3400	113	1.5100	114	1.6200	115	.1200
116	-0.	117	0.	118	.5800	119	.1900	120	1.2100
121	2.7500	122	.1700	123	0.	124	0.	125	.2100
126	0.	127	.1100	128	.0700	129	1.0100	130	0.
131	1.7200	132	0.	133	0.	134	0.	135	.2600
136	.3000	137	.2200	138	0.	139	1.1600	140	0.
141	0.	142	.1700	143	0.	144	0.	145	0.
146	0.	147	0.	148	.0300	149	0.	150	0.
151	1.3400	152	.2700	153	0.	154	.5400	155	0.
156	0.	157	0.	158	.0300	159	0.	160	0.
161	.1500	162	0.	163	0.	164	.0500	165	.3300
166	-.1000	167	-.1000	168	0.	169	-.0800	170	0.
171	.0300	172	.0400	173	.0700	174	0.	175	.0400
176	0.	177	.1100	178	.1000				

PUMPAGE FOR LOWER AQUIFER

TOTAL PUMPAGE 1.150E+02

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	.4200	2	0.	3	1.1800	4	0.	5	0.
6	0.	7	0.	8	0.	9	0.	10	0.
11	3.0600	12	0.	13	0.	14	.0600	15	.0400
16	.7100	17	2.7200	18	0.	19	0.	20	0.
21	.5200	22	0.	23	0.	24	0.	25	1.8200
26	0.	27	1.7800	28	0.	29	0.	30	0.
31	0.	32	0.	33	0.	34	1.7500	35	.5200
36	.9300	37	.7300	38	0.	39	0.	40	0.
41	6.7500	42	0.	43	0.	44	0.	45	2.6400
46	0.	47	.5100	48	0.	49	0.	50	2.8100
51	0.	52	.0400	53	0.	54	0.	55	1.8400
56	2.5900	57	0.	58	.0600	59	0.	60	.5700
61	0.	62	.0200	63	2.3100	64	1.1200	65	.7100
66	0.	67	.0400	68	6.1400	69	7.7900	70	.5300
71	0.	72	0.	73	.7500	74	1.7300	75	.5700
76	0.	77	.4900	78	3.3900	79	.0300	80	1.0400
81	.5400	82	2.1700	83	0.	84	.0200	85	.3200
86	5.5200	87	2.4600	88	3.3900	89	1.5900	90	.8800
91	0.	92	0.	93	0.	94	.3800	95	.2700
96	0.	97	1.9900	98	1.3200	99	5.5600	100	2.7600
101	.8200	102	0.	103	1.5900	104	0.	105	0.
106	.5400	107	.6200	108	.5600	109	0.	110	0.
111	1.5900	112	3.2200	113	.4400	114	.7500	115	.0900
116	.0100	117	0.	118	.2800	119	.1000	120	.1100
121	.5700	122	1.9200	123	0.	124	0.	125	.2800
126	0.	127	.4800	128	.5700	129	.7500	130	0.
131	.8800	132	0.	133	0.	134	0.	135	.0600
136	.3700	137	.5300	138	0.	139	1.1800	140	0.
141	0.	142	.0200	143	0.	144	0.	145	0.
146	0.	147	0.	148	.0600	149	0.	150	0.
151	.6000	152	.1500	153	0.	154	.3200	155	0.
156	0.	157	0.	158	0.	159	0.	160	0.
161	.0800	162	0.	163	0.	164	.1200	165	.1200
166	1.4300	167	1.0600	168	0.	169	.4000	170	0.
171	.2200	172	.0900	173	1.0000	174	0.	175	.1000
176	0.	177	.7800	178	.2400				

MULTIPLICATION FACTORS FOR SOURCE AND SINK DISCHARGE

STEP	UPPER AQUIFER		LOWER AQUIFER	
	RECHARGE	PUMPAGE	RECHARGE	PUMPAGE
3	-1.0000	1.0000	-1.0000	1.0000

SOURCE AND SINK DISCHARGE FOR TIME STEPS 4 TO 4

RECHARGE FOR UPPER AQUIFER

TOTAL RECHARGE 2.055E+02

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	2.7400	2	2.7700	3	1.9200	4	0.	5	.3800
6	0.	7	1.1500	8	2.0000	9	2.4600	10	0.
11	5.7700	12	0.	13	.7700	14	1.0800	15	3.6900
16	5.5400	17	4.6200	18	0.	19	0.	20	.7700
21	3.5900	22	6.7400	23	.4300	24	.3100	25	.1500
26	0.	27	0.	28	0.	29	0.	30	.1200
31	2.8400	32	0.	33	1.2300	34	1.1500	35	.2300
36	1.6200	37	1.5400	38	1.0800	39	.7700	40	.9700
41	1.7900	42	1.2300	43	1.2300	44	.6900	45	.7700
46	.2300	47	.7700	48	1.0300	49	8.0000	50	1.1500
51	.3800	52	0.	53	.3100	54	0.	55	2.0000
56	1.5900	57	3.3600	58	2.3100	59	-2.0000	60	0.
61	0.	62	0.	63	0.	64	0.	65	1.1800
66	0.	67	0.	68	0.	69	0.	70	0.
71	0.	72	0.	73	0.	74	.7700	75	2.8200
76	2.6900	77	-16.5000	78	0.	79	0.	80	0.
81	.3800	82	0.	83	.6100	84	1.4300	85	0.
86	0.	87	0.	88	0.	89	0.	90	0.
91	1.1500	92	0.	93	1.6200	94	.6200	95	5.3900
96	-2.5000	97	0.	98	0.	99	0.	100	0.
101	.3800	102	0.	103	.8200	104	2.0500	105	4.1000
106	1.2300	107	0.	108	.7700	109	4.2300	110	.6200
111	0.	112	.6900	113	0.	114	1.9200	115	2.0500
116	.3100	117	.3100	118	.7700	119	.7700	120	3.0800
121	2.9300	122	1.4600	123	6.3800	124	0.	125	3.8500
126	.3100	127	.1500	128	1.9200	129	1.9200	130	1.5400
131	.7700	132	6.1500	133	4.1000	134	.3800	135	0.
136	.3800	137	.3800	138	0.	139	0.	140	0.
141	4.1000	142	2.2300	143	1.1500	144	.9200	145	1.1500
146	0.	147	0.	148	.3800	149	0.	150	.6900
151	1.7700	152	0.	153	.1500	154	0.	155	8.2000
156	6.7900	157	2.5900	158	4.2800	159	4.1300	160	0.
161	4.3100	162	2.3600	163	0.	164	2.3400	165	.2300
166	1.6200	167	3.4600	168	.7700	169	2.1600	170	3.5400
171	.3100	172	0.	173	.3100	174	.3100	175	0.
176	1.0800	177	2.6900	178	1.8500				

PUMPAGE FOR UPPER AQUIFER

TOTAL PUMPAGE 4.825E+01

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	-.0900	2	0.	3	-.2600	4	0.	5	0.
6	0.	7	0.	8	0.	9	0.	10	0.
11	2.4500	12	0.	13	0.	14	-.0100	15	.0200
16	1.0800	17	2.1300	18	0.	19	0.	20	0.
21	.2500	22	0.	23	0.	24	0.	25	1.3300
26	0.	27	.0600	28	0.	29	0.	30	0.
31	0.	32	0.	33	0.	34	-.2500	35	0.
36	.0400	37	.1500	38	0.	39	0.	40	0.
41	.7900	42	0.	43	0.	44	0.	45	-.5900
46	0.	47	0.	48	0.	49	0.	50	1.1200
51	0.	52	.0100	53	0.	54	0.	55	-.2800
56	3.7700	57	.0100	58	.0300	59	0.	60	.3200
61	0.	62	.0400	63	-.5200	64	-.1700	65	-.0900
66	.0700	67	.3100	68	-1.8400	69	-.6700	70	-.1200
71	0.	72	0.	73	-.1600	74	.2800	75	.5100
76	0.	77	.2100	78	.2700	79	.0100	80	1.8700
81	-.1600	82	.8700	83	0.	84	.0400	85	2.9000
86	-.4800	87	-.3100	88	-.6200	89	6.8600	90	4.6300
91	0.	92	0.	93	0.	94	.0300	95	.2000
96	0.	97	-.5000	98	1.0200	99	1.9200	100	-.5100
101	2.1800	102	0.	103	.1400	104	0.	105	0.
106	.3300	107	.7900	108	.3700	109	0.	110	0.
111	.5800	112	-.3400	113	1.5100	114	1.6200	115	.1200
116	-0.	117	0.	118	.5800	119	.1900	120	1.2100
121	2.7500	122	.1700	123	0.	124	0.	125	.2100
126	0.	127	.1100	128	.0700	129	1.0100	130	0.
131	1.7200	132	0.	133	0.	134	0.	135	.2600
136	.3000	137	.2200	138	0.	139	1.1600	140	0.
141	0.	142	.1700	143	0.	144	0.	145	0.
146	0.	147	0.	148	.0300	149	0.	150	0.
151	1.3400	152	.2700	153	0.	154	.5400	155	0.
156	0.	157	0.	158	.0300	159	0.	160	0.
161	.1500	162	0.	163	0.	164	.0500	165	.3300
166	-.1000	167	-.1000	168	0.	169	-.0800	170	0.
171	.0300	172	.0400	173	.0700	174	0.	175	.0400
176	0.	177	.1100	178	.1000				

PUMPAGE FOR LOWER AQUIFER

TOTAL PUMPAGE 1.150F+02

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	.4200	2	0.	3	1.1800	4	0.	5	0.
6	0.	7	0.	8	0.	9	0.	10	0.
11	3.0600	12	0.	13	0.	14	.0600	15	.0400
16	.7100	17	2.7200	18	0.	19	0.	20	0.
21	.5200	22	0.	23	0.	24	0.	25	1.8200
26	0.	27	1.7800	28	0.	29	0.	30	0.
31	0.	32	0.	33	0.	34	1.7500	35	.5200
36	.9300	37	.7300	38	0.	39	0.	40	0.
41	6.7500	42	0.	43	0.	44	0.	45	2.6400
46	0.	47	.5100	48	0.	49	0.	50	2.8100
51	0.	52	.0400	53	0.	54	0.	55	1.8400
56	2.5900	57	0.	58	.0600	59	0.	60	.5700
61	0.	62	.0200	63	2.3100	64	1.1200	65	.7100
66	0.	67	.0400	68	6.1400	69	7.7900	70	.5300
71	0.	72	0.	73	.7500	74	1.7300	75	.5700
76	0.	77	.4900	78	3.3900	79	.0300	80	1.0400
81	.5400	82	2.1700	83	0.	84	.0200	85	.3200
86	5.5200	87	2.4600	88	3.3900	89	1.5900	90	.8800
91	0.	92	0.	93	0.	94	.3800	95	.2700
96	0.	97	1.9900	98	1.3200	99	5.5600	100	2.7600
101	.8200	102	0.	103	1.5900	104	0.	105	0.
106	.5400	107	.6200	108	.5600	109	0.	110	0.
111	1.5900	112	3.2200	113	.4400	114	.7500	115	.0900
116	.0100	117	0.	118	.2800	119	.1000	120	.1100
121	.5700	122	1.9200	123	0.	124	0.	125	.2800
126	0.	127	.4800	128	.5700	129	.7500	130	0.
131	.8800	132	0.	133	0.	134	0.	135	.0600
136	.3700	137	.5300	138	0.	139	1.1800	140	0.
141	0.	142	.0200	143	0.	144	0.	145	0.
146	0.	147	0.	148	.0600	149	0.	150	0.
151	.6000	152	.1500	153	0.	154	.3200	155	0.
156	0.	157	0.	158	0.	159	0.	160	0.
161	.0800	162	0.	163	0.	164	.1200	165	.1200
166	1.4300	167	1.0600	168	0.	169	.4000	170	0.
171	.2200	172	.0900	173	1.0000	174	0.	175	.1000
176	0.	177	.7800	178	.2400				

MULTIPLICATION FACTORS FOR SOURCE AND SINK DISCHARGE

STEP	UPPER AQUIFER		LOWER AQUIFER	
	RECHARGE	PUMPAGE	RECHARGE	PUMPAGE
	-1.0000	1.0000	-1.0000	1.0000

SOURCE AND SINK DISCHARGE FOR TIME STEPS 5 TO 5

RECHARGE FOR UPPER AQUIFER

TOTAL RECHARGE 2.095E+02

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	2.7400	2	2.7700	3	1.9200	4	0.	5	.3800
6	0.	7	1.1500	8	2.0000	9	2.4600	10	0.
11	5.7700	12	0.	13	.7700	14	1.0800	15	3.8100
16	5.5400	17	4.6200	18	0.	19	0.	20	.7700
21	3.7500	22	7.0200	23	.4300	24	.3100	25	.1500
26	0.	27	0.	28	0.	29	0.	30	.1200
31	2.9600	32	0.	33	1.2900	34	1.1500	35	.2300
36	1.6200	37	1.5400	38	1.0800	39	.7700	40	1.0100
41	1.8700	42	1.2900	43	1.2900	44	.6900	45	.7700
46	.2300	47	.7700	48	1.0500	49	8.2400	50	1.1500
51	.3800	52	0.	53	.3100	54	0.	55	2.0000
56	1.6300	57	3.4600	58	2.3100	59	-2.0000	60	0.
61	0.	62	0.	63	0.	64	0.	65	1.2000
66	0.	67	0.	68	0.	69	0.	70	0.
71	0.	72	0.	73	0.	74	.7700	75	2.9200
76	2.6900	77	-16.5000	78	0.	79	0.	80	0.
81	.3800	82	0.	83	.6400	84	1.5000	85	0.
86	0.	87	0.	88	0.	89	0.	90	0.
91	1.1500	92	0.	93	1.6200	94	.6200	95	5.3900
96	-2.5000	97	0.	98	0.	99	0.	100	0.
101	.3800	102	0.	103	.8600	104	2.1500	105	4.3000
106	1.2900	107	0.	108	.7700	109	4.2300	110	.6200
111	0.	112	.6900	113	0.	114	1.9200	115	2.1500
116	.3100	117	.3100	118	.7700	119	.7700	120	3.0800
121	2.9300	122	1.4600	123	6.6800	124	0.	125	3.8500
126	.3100	127	.1500	128	1.9200	129	1.9200	130	1.5400
131	.7700	132	6.4500	133	4.3000	134	.3800	135	0.
136	.3800	137	.3800	138	0.	139	0.	140	0.
141	4.3000	142	2.2300	143	1.1500	144	.9200	145	1.1500
146	0.	147	0.	148	.3800	149	0.	150	.6900
151	1.7700	152	0.	153	.1500	154	0.	155	8.6000
156	6.9900	157	2.6900	158	4.3800	159	4.2300	160	0.
161	4.3100	162	2.3600	163	0.	164	2.3400	165	.2300
166	1.6200	167	3.4600	168	.7700	169	2.1600	170	3.5400
171	.3100	172	0.	173	.3100	174	.3100	175	0.
176	1.0800	177	2.6900	178	1.8500				

PUMPAGE FOR UPPER AQUIFER

TOTAL PUMPAGE 4.825E+01

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	-.0900	2	0.	3	-.2600	4	0.	5	0.
6	0.	7	0.	8	0.	9	0.	10	0.
11	2.4500	12	0.	13	0.	14	-.0100	15	.0200
16	1.0800	17	2.1300	18	0.	19	0.	20	0.
21	.2500	22	0.	23	0.	24	0.	25	1.3300
26	0.	27	.0600	28	0.	29	0.	30	0.
31	0.	32	0.	33	0.	34	-.2500	35	0.
36	.0400	37	.1500	38	0.	39	0.	40	0.
41	.7900	42	0.	43	0.	44	0.	45	-.5900
46	0.	47	0.	48	0.	49	0.	50	1.1200
51	0.	52	.0100	53	0.	54	0.	55	-.2800
56	3.7700	57	.0100	58	.0300	59	0.	60	.3200
61	0.	62	.0400	63	-.5200	64	-.1700	65	-.0900
66	.0700	67	.3100	68	-1.8400	69	-.6700	70	-.1200
71	0.	72	0.	73	-.1600	74	.2800	75	.5100
76	0.	77	.2100	78	.2700	79	.0100	80	1.8700
81	-.1600	82	.8700	83	0.	84	.0400	85	2.9000
86	-.4800	87	-.3100	88	-.6200	89	6.8600	90	4.6300
91	0.	92	0.	93	0.	94	.0300	95	.2000
96	0.	97	-.5000	98	1.0200	99	1.9200	100	-.5100
101	2.1800	102	0.	103	.1400	104	0.	105	0.
106	.3300	107	.7900	108	.3700	109	0.	110	0.
111	.5800	112	-.3400	113	1.5100	114	1.6200	115	.1200
116	-0.	117	0.	118	.5800	119	.1900	120	1.2100
121	2.7500	122	.1700	123	0.	124	0.	125	.2100
126	0.	127	.1100	128	.0700	129	1.0100	130	0.
131	1.7200	132	0.	133	0.	134	0.	135	.2600
136	.3000	137	.2200	138	0.	139	1.1600	140	0.
141	0.	142	.1700	143	0.	144	0.	145	0.
146	0.	147	0.	148	.0300	149	0.	150	0.
151	1.3400	152	.2700	153	0.	154	.5400	155	0.
156	0.	157	0.	158	.0300	159	0.	160	0.
161	.1500	162	0.	163	0.	164	.0500	165	.3300
166	-.1000	167	-.1000	168	0.	169	-.0800	170	0.
171	.0300	172	.0400	173	.0700	174	0.	175	.0400
176	0.	177	.1100	178	.1000				

PUMPAGE FOR LOWER AQUIFER

TOTAL PUMPAGE 1.150E+02

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	.4200	2	0.	3	1.1800	4	0.	5	0.
6	0.	7	0.	8	0.	9	0.	10	0.
11	3.0600	12	0.	13	0.	14	.0600	15	.0400
16	.7100	17	2.7200	18	0.	19	0.	20	0.
21	.5200	22	0.	23	0.	24	0.	25	1.8200
26	0.	27	1.7800	28	0.	29	0.	30	0.
31	0.	32	0.	33	0.	34	1.7500	35	.5200
36	.9300	37	.7300	38	0.	39	0.	40	0.
41	6.7500	42	0.	43	0.	44	0.	45	2.6400
46	0.	47	.5100	48	0.	49	0.	50	2.8100
51	0.	52	.0400	53	0.	54	0.	55	1.8400
56	2.5900	57	0.	58	.0600	59	0.	60	.5700
61	0.	62	.0200	63	2.3100	64	1.1200	65	.7100
66	0.	67	.0400	68	6.1400	69	7.7900	70	.5300
71	0.	72	0.	73	.7500	74	1.7300	75	.5700
76	0.	77	.4900	78	3.3900	79	.0300	80	1.0400
81	.5400	82	2.1700	83	0.	84	.0200	85	.3200
86	5.5200	87	2.4600	88	3.3900	89	1.5900	90	.8800
91	0.	92	0.	93	0.	94	.3800	95	.2700
96	0.	97	1.9900	98	1.3200	99	5.5600	100	2.7600
101	.8200	102	0.	103	1.5900	104	0.	105	0.
106	.5400	107	.6200	108	.5600	109	0.	110	0.
111	1.5900	112	3.2200	113	.4400	114	.7500	115	.0900
116	.0100	117	0.	118	.2800	119	.1000	120	.1100
121	.5700	122	1.9200	123	0.	124	0.	125	.2800
126	0.	127	.4800	128	.5700	129	.7500	130	0.
131	.8800	132	0.	133	0.	134	0.	135	.0600
136	.3700	137	.5300	138	0.	139	1.1800	140	0.
141	0.	142	.0200	143	0.	144	0.	145	0.
146	0.	147	0.	148	.0600	149	0.	150	0.
151	.6000	152	.1500	153	0.	154	.3200	155	0.
156	0.	157	0.	158	0.	159	0.	160	0.
161	.0800	162	0.	163	0.	164	.1200	165	.1200
166	1.4300	167	1.0600	168	0.	169	.4000	170	0.
171	.2200	172	.0900	173	1.0000	174	0.	175	.1000
176	0.	177	.7800	178	.2400				

MULTIPLICATION FACTORS FOR SOURCE AND SINK DISCHARGE

STEP	UPPER AQUIFER		LOWER AQUIFER	
	RECHARGE	PUMPAGE	RECHARGE	PUMPAGE
5	-1.0000	1.0000	-1.0000	1.0000

SOURCE AND SINK DISCHARGE FOR TIME STEPS 6 TO 6

RECHARGE FOR UPPER AQUIFER

TOTAL RECHARGE 2.135E+02

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	2.7400	2	2.7700	3	1.9200	4	0.	5	.3800
6	0.	7	1.1500	8	2.0000	9	2.4600	10	0.
11	5.7700	12	0.	13	.7700	14	1.0800	15	3.9300
16	5.5400	17	4.6200	18	0.	19	0.	20	.7700
21	3.9100	22	7.3000	23	.4300	24	.3100	25	.1500
26	0.	27	0.	28	0.	29	0.	30	.1200
31	3.0800	32	0.	33	1.3500	34	1.1500	35	.2300
36	1.6200	37	1.5400	38	1.0800	39	.7700	40	1.0500
41	1.9500	42	1.3500	43	1.3500	44	.6900	45	.7700
46	.2300	47	.7700	48	1.0700	49	8.4800	50	1.1500
51	.3800	52	0.	53	.3100	54	0.	55	2.0000
56	1.6700	57	3.5600	58	2.3100	59	-2.0000	60	0.
61	0.	62	0.	63	0.	64	0.	65	1.2200
66	0.	67	0.	68	0.	69	0.	70	0.
71	0.	72	0.	73	0.	74	.7700	75	3.0200
76	2.6900	77	-16.5000	78	0.	79	0.	80	0.
81	.3800	82	0.	83	.6700	84	1.5700	85	0.
86	0.	87	0.	88	0.	89	0.	90	0.
91	1.1500	92	0.	93	1.6200	94	.6200	95	5.3900
96	-2.5000	97	0.	98	0.	99	0.	100	0.
101	.3800	102	0.	103	.9000	104	2.2500	105	4.5000
106	1.3500	107	0.	108	.7700	109	4.2300	110	.6200
111	0.	112	.6900	113	0.	114	1.9200	115	2.2500
116	.3100	117	.3100	118	.7700	119	.7700	120	3.0800
121	2.9300	122	1.4600	123	6.9800	124	0.	125	3.8500
126	.3100	127	.1500	128	1.9200	129	1.9200	130	1.5400
131	.7700	132	6.7500	133	4.5000	134	.3800	135	0.
136	.3800	137	.3800	138	0.	139	0.	140	0.
141	4.5000	142	2.2300	143	1.1500	144	.9200	145	1.1500
146	0.	147	0.	148	.3800	149	0.	150	.6900
151	1.7700	152	0.	153	.1500	154	0.	155	9.0000
156	7.1900	157	2.7900	158	4.4800	159	4.3300	160	0.
161	4.3100	162	2.3600	163	0.	164	2.3400	165	.2300
166	1.6200	167	3.4600	168	.7700	169	2.1600	170	3.5400
171	.3100	172	0.	173	.3100	174	.3100	175	0.
176	1.0800	177	2.6900	178	1.8500				

PUMPAGE FOR UPPER AQUIFER

TOTAL PUMPAGE 4.825E+01

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	-.0900	2	0.	3	-.2600	4	0.	5	0.
6	0.	7	0.	8	0.	9	0.	10	0.
11	2.4500	12	0.	13	0.	14	-.0100	15	.0200
16	1.0800	17	2.1300	18	0.	19	0.	20	0.
21	.2500	22	0.	23	0.	24	0.	25	1.3300
26	0.	27	.0600	28	0.	29	0.	30	0.
31	0.	32	0.	33	0.	34	-.2500	35	0.
36	.0400	37	.1500	38	0.	39	0.	40	0.
41	.7900	42	0.	43	0.	44	0.	45	-.5900
46	0.	47	0.	48	0.	49	0.	50	1.1200
51	0.	52	.0100	53	0.	54	0.	55	-.2800
56	3.7700	57	.0100	58	.0300	59	0.	60	.3200
61	0.	62	.0400	63	-.5200	64	-.1700	65	-.0900
66	.0700	67	.3100	68	-1.8400	69	-.6700	70	-.1200
71	0.	72	0.	73	-.1600	74	.2800	75	.5100
76	0.	77	.2100	78	.2700	79	.0100	80	1.8700
81	-.1600	82	.8700	83	0.	84	.0400	85	2.9000
86	-.4800	87	-.3100	88	-.6200	89	6.8600	90	4.6300
91	0.	92	0.	93	0.	94	.0300	95	.2000
96	0.	97	-.5000	98	1.0200	99	1.9200	100	-.5100
101	2.1800	102	0.	103	.1400	104	0.	105	0.
106	.3300	107	.7900	108	.3700	109	0.	110	0.
111	.5800	112	-.3400	113	1.5100	114	1.6200	115	.1200
116	-0.	117	0.	118	.5800	119	.1900	120	1.2100
121	2.7500	122	.1700	123	0.	124	0.	125	.2100
126	0.	127	.1100	128	.0700	129	1.0100	130	0.
131	1.7200	132	0.	133	0.	134	0.	135	.2600
136	.3000	137	.2200	138	0.	139	1.1600	140	0.
141	0.	142	.1700	143	0.	144	0.	145	0.
146	0.	147	0.	148	.0300	149	0.	150	0.
151	1.3400	152	.2700	153	0.	154	.5400	155	0.
156	0.	157	0.	158	.0300	159	0.	160	0.
161	.1500	162	0.	163	0.	164	.0500	165	.3300
166	-.1000	167	-.1000	168	0.	169	-.0800	170	0.
171	.0300	172	.0400	173	.0700	174	0.	175	.0400
176	0.	177	.1100	178	.1000				

PUMPAGE FOR LOWER AQUIFER

TOTAL PUMPAGE 1.150E+02

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	.4200	2	0.	3	1.1800	4	0.	5	0.
6	0.	7	0.	8	0.	9	0.	10	0.
11	3.0600	12	0.	13	0.	14	.0600	15	.0400
16	.7100	17	2.7200	18	0.	19	0.	20	0.
21	.5200	22	0.	23	0.	24	0.	25	1.8200
26	0.	27	1.7800	28	0.	29	0.	30	0.
31	0.	32	0.	33	0.	34	1.7500	35	.5200
36	.9300	37	.7300	38	0.	39	0.	40	0.
41	6.7500	42	0.	43	0.	44	0.	45	2.6400
46	0.	47	.5100	48	0.	49	0.	50	2.8100
51	0.	52	.0400	53	0.	54	0.	55	1.8400
56	2.5900	57	0.	58	.0600	59	0.	60	.5700
61	0.	62	.0200	63	2.3100	64	1.1200	65	.7100
66	0.	67	.0400	68	6.1400	69	7.7900	70	.5300
71	0.	72	0.	73	.7500	74	1.7300	75	.5700
76	0.	77	.4900	78	3.3900	79	.0300	80	1.0400
81	.5400	82	2.1700	83	0.	84	.0200	85	.3200
86	5.5200	87	2.4600	88	3.3900	89	1.5900	90	.8800
91	0.	92	0.	93	0.	94	.3800	95	.2700
96	0.	97	1.9900	98	1.3200	99	5.5600	100	2.7600
101	.8200	102	0.	103	1.5900	104	0.	105	0.
106	.5400	107	.6200	108	.5600	109	0.	110	0.
111	1.5900	112	3.2200	113	.4400	114	.7500	115	.0900
116	.0100	117	0.	118	.2800	119	.1000	120	.1100
121	.5700	122	1.9200	123	0.	124	0.	125	.2800
126	0.	127	.4800	128	.5700	129	.7500	130	0.
131	.8800	132	0.	133	0.	134	0.	135	.0600
136	.3700	137	.5300	138	0.	139	1.1800	140	0.
141	0.	142	.0200	143	0.	144	0.	145	0.
146	0.	147	0.	148	.0600	149	0.	150	0.
151	.6000	152	.1500	153	0.	154	.3200	155	0.
156	0.	157	0.	158	0.	159	0.	160	0.
161	.0800	162	0.	163	0.	164	.1200	165	.1200
166	1.4300	167	1.0600	168	0.	169	.4000	170	0.
171	.2200	172	.0900	173	1.0000	174	0.	175	.1000
176	0.	177	.7800	178	.2400				

MULTIPLICATION FACTORS FOR SOURCE AND SINK DISCHARGE

STEP	UPPER AQUIFER RECHARGE	UPPER AQUIFER PUMPAGE	LOWER AQUIFER RECHARGE	LOWER AQUIFER PUMPAGE
6	-1.0000	1.0000	-1.0000	1.0000

SOURCE AND SINK DISCHARGE FOR TIME STEPS 7 TO 7

RECHARGE FOR UPPER AQUIFER

TOTAL RECHARGE 2.175E+02

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	2.7400	2	2.7700	3	1.9200	4	0.	5	.3800
6	0.	7	1.1500	8	2.0000	9	2.4600	10	0.
11	5.7700	12	0.	13	.7700	14	1.0800	15	4.0500
16	5.5400	17	4.6200	18	0.	19	0.	20	.7700
21	4.0700	22	7.5800	23	.4300	24	.3100	25	.1500
26	0.	27	0.	28	0.	29	0.	30	.1200
31	3.2000	32	0.	33	1.4100	34	1.1500	35	.2300
36	1.6200	37	1.5400	38	1.0800	39	.7700	40	1.0900
41	2.0300	42	1.4100	43	1.4100	44	.6900	45	.7700
46	.2300	47	.7700	48	1.0900	49	8.7200	50	1.1500
51	.3800	52	0.	53	.3100	54	0.	55	2.0000
56	1.7100	57	3.6600	58	2.3100	59	-2.0000	60	0.
61	0.	62	0.	63	0.	64	0.	65	1.2400
66	0.	67	0.	68	0.	69	0.	70	0.
71	0.	72	0.	73	0.	74	.7700	75	3.1200
76	2.6900	77	-16.5000	78	0.	79	0.	80	0.
81	.3800	82	0.	83	.7000	84	1.6400	85	0.
86	0.	87	0.	88	0.	89	0.	90	0.
91	1.1500	92	0.	93	1.6200	94	.6200	95	5.3900
96	-2.5000	97	0.	98	0.	99	0.	100	0.
101	.3800	102	0.	103	.9400	104	2.3500	105	4.7000
106	1.4100	107	0.	108	.7700	109	4.2300	110	.6200
111	0.	112	.6900	113	0.	114	1.9200	115	2.3500
116	.3100	117	.3100	118	.7700	119	.7700	120	3.0800
121	2.9300	122	1.4600	123	7.2800	124	0.	125	3.8500
126	.3100	127	.1500	128	1.9200	129	1.9200	130	1.5400
131	.7700	132	7.0500	133	4.7000	134	.3800	135	0.
136	.3800	137	.3800	138	0.	139	0.	140	0.
141	4.7000	142	2.2300	143	1.1500	144	.9200	145	1.1500
146	0.	147	0.	148	.3800	149	0.	150	.6900
151	1.7700	152	0.	153	.1500	154	0.	155	9.4000
156	7.3900	157	2.8900	158	4.5800	159	4.4300	160	0.
161	4.3100	162	2.3600	163	0.	164	2.3400	165	.2300
166	1.6200	167	3.4600	168	.7700	169	2.1600	170	3.5400
171	.3100	172	0.	173	.3100	174	.3100	175	0.
176	1.0800	177	2.6900	178	1.8500				

PUMPAGE FOR UPPER AQUIFER

TOTAL PUMPAGE 4.825E+01

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	-.0900	2	0.	3	-.2600	4	0.	5	0.
6	0.	7	0.	8	0.	9	0.	10	0.
11	2.4500	12	0.	13	0.	14	-.0100	15	.0200
16	1.0800	17	2.1300	18	0.	19	0.	20	0.
21	.2500	22	0.	23	0.	24	0.	25	1.3300
26	0.	27	.0600	28	0.	29	0.	30	0.
31	0.	32	0.	33	0.	34	-.2500	35	0.
36	.0400	37	.1500	38	0.	39	0.	40	0.
41	.7900	42	0.	43	0.	44	0.	45	-.5900
46	0.	47	0.	48	0.	49	0.	50	1.1200
51	0.	52	.0100	53	0.	54	0.	55	-.2800
56	3.7700	57	.0100	58	.0300	59	0.	60	.3200
61	0.	62	.0400	63	-.5200	64	-.1700	65	-.0900
66	.0700	67	.3100	68	-1.8400	69	-.6700	70	-.1200
71	0.	72	0.	73	-.1600	74	.2800	75	.5100
76	0.	77	.2100	78	.2700	79	.0100	80	1.8700
81	-.1600	82	.8700	83	0.	84	.0400	85	2.9000
86	-.4800	87	-.3100	88	-.6200	89	6.8600	90	4.6300
91	0.	92	0.	93	0.	94	.0300	95	.2000
96	0.	97	-.5000	98	1.0200	99	1.9200	100	-.5100
101	2.1800	102	0.	103	.1400	104	0.	105	0.
106	.3300	107	.7900	108	.3700	109	0.	110	0.
111	.5800	112	-.3400	113	1.5100	114	1.6200	115	.1200
116	-0.	117	0.	118	.5800	119	.1900	120	1.2100
121	2.7500	122	.1700	123	0.	124	0.	125	.2100
126	0.	127	.1100	128	.0700	129	1.0100	130	0.
131	1.7200	132	0.	133	0.	134	0.	135	.2600
136	.3000	137	.2200	138	0.	139	1.1600	140	0.
141	0.	142	.1700	143	0.	144	0.	145	0.
146	0.	147	0.	148	.0300	149	0.	150	0.
151	1.3400	152	.2700	153	0.	154	.5400	155	0.
156	0.	157	0.	158	.0300	159	0.	160	0.
161	.1500	162	0.	163	0.	164	.0500	165	.3300
166	-.1000	167	-.1000	168	0.	169	-.0800	170	0.
171	.0300	172	.0400	173	.0700	174	0.	175	.0400
176	0.	177	.1100	178	.1000				

PUMPAGE FOR LOWER AQUIFER

TOTAL PUMPAGE 1.150E+02

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	.4200	2	0.	3	1.1800	4	0.	5	0.
6	0.	7	0.	8	0.	9	0.	10	0.
11	3.0600	12	0.	13	0.	14	.0600	15	.0400
16	.7100	17	2.7200	18	0.	19	0.	20	0.
21	.5200	22	0.	23	0.	24	0.	25	1.8200
26	0.	27	1.7800	28	0.	29	0.	30	0.
31	0.	32	0.	33	0.	34	1.7500	35	.5200
36	.9300	37	.7300	38	0.	39	0.	40	0.
41	6.7500	42	0.	43	0.	44	0.	45	2.6400
46	0.	47	.5100	48	0.	49	0.	50	2.8100
51	0.	52	.0400	53	0.	54	0.	55	1.8400
56	2.5900	57	0.	58	.0600	59	0.	60	.5700
61	0.	62	.0200	63	2.3100	64	1.1200	65	.7100
66	0.	67	.0400	68	6.1400	69	7.7900	70	.5300
71	0.	72	0.	73	.7500	74	1.7300	75	.5700
76	0.	77	.4900	78	3.3900	79	.0300	80	1.0400
81	.5400	82	2.1700	83	0.	84	.0200	85	.3200
86	5.5200	87	2.4600	88	3.3900	89	1.5900	90	.8800
91	0.	92	0.	93	0.	94	.3800	95	.2700
96	0.	97	1.9900	98	1.3200	99	5.5600	100	2.7600
101	.8200	102	0.	103	1.5900	104	0.	105	0.
106	.5400	107	.6200	108	.5600	109	0.	110	0.
111	1.5900	112	3.2200	113	.4400	114	.7500	115	.0900
116	.0100	117	0.	118	.2800	119	.1000	120	.1100
121	.5700	122	1.9200	123	0.	124	0.	125	.2800
126	0.	127	.4800	128	.5700	129	.7500	130	0.
131	.8800	132	0.	133	0.	134	0.	135	.0600
136	.3700	137	.5300	138	0.	139	1.1800	140	0.
141	0.	142	.0200	143	0.	144	0.	145	0.
146	0.	147	0.	148	.0600	149	0.	150	0.
151	.6000	152	.1500	153	0.	154	.3200	155	0.
156	0.	157	0.	158	0.	159	0.	160	0.
161	.0800	162	0.	163	0.	164	.1200	165	.1200
166	1.4300	167	1.0600	168	0.	169	.4000	170	0.
171	.2200	172	.0900	173	1.0000	174	0.	175	.1000
176	0.	177	.7800	178	.2400				

MULTIPLICATION FACTORS FOR SOURCE AND SINK DISCHARGE

STEP	UPPER AQUIFER		LOWER AQUIFER	
	RECHARGE	PUMPAGE	RECHARGE	PUMPAGE
7	-1.0000	1.0000	-1.0000	1.0000

SOURCE AND SINK DISCHARGE FOR TIME STEPS 8 TO 8

RECHARGE FOR UPPER AQUIFER

TOTAL RECHARGE 2.215E+02

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	2.7400	2	2.7700	3	1.9200	4	0.	5	.3800
6	0.	7	1.1500	8	2.0000	9	2.4600	10	0.
11	5.7700	12	0.	13	.7700	14	1.0800	15	4.1700
16	5.5400	17	4.6200	18	0.	19	0.	20	.7700
21	4.2300	22	7.8600	23	.4300	24	.3100	25	.1500
26	0.	27	0.	28	0.	29	0.	30	.1200
31	3.3200	32	0.	33	1.4700	34	1.1500	35	.2300
36	1.6200	37	1.5400	38	1.0800	39	.7700	40	1.1300
41	2.1100	42	1.4700	43	1.4700	44	.6900	45	.7700
46	.2300	47	.7700	48	1.1100	49	8.9600	50	1.1500
51	.3800	52	0.	53	.3100	54	0.	55	2.0000
56	1.7500	57	3.7600	58	2.3100	59	-2.0000	60	0.
61	0.	62	0.	63	0.	64	0.	65	1.2600
66	0.	67	0.	68	0.	69	0.	70	0.
71	0.	72	0.	73	0.	74	.7700	75	3.2200
76	2.6900	77	-16.5000	78	0.	79	0.	80	0.
81	.3800	82	0.	83	.7300	84	1.7100	85	0.
86	0.	87	0.	88	0.	89	0.	90	0.
91	1.1500	92	0.	93	1.6200	94	.6200	95	5.3900
96	-2.5000	97	0.	98	0.	99	0.	100	0.
101	.3800	102	0.	103	.9800	104	2.4500	105	4.9000
106	1.4700	107	0.	108	.7700	109	4.2300	110	.6200
111	0.	112	.6900	113	0.	114	1.9200	115	2.4500
116	.3100	117	.3100	118	.7700	119	.7700	120	3.0800
121	2.9300	122	1.4600	123	7.5800	124	0.	125	3.8500
126	.3100	127	.1500	128	1.9200	129	1.9200	130	1.5400
131	.7700	132	7.3500	133	4.9000	134	.3800	135	0.
136	.3800	137	.3800	138	0.	139	0.	140	0.
141	4.9000	142	2.2300	143	1.1500	144	.9200	145	1.1500
146	0.	147	0.	148	.3800	149	0.	150	.6900
151	1.7700	152	0.	153	.1500	154	0.	155	9.8000
156	7.5900	157	2.9900	158	4.6800	159	4.5300	160	0.
161	4.3100	162	2.3600	163	0.	164	2.3400	165	.2300
166	1.6200	167	3.4600	168	.7700	169	2.1600	170	3.5400
171	.3100	172	0.	173	.3100	174	.3100	175	0.
176	1.0800	177	2.6900	178	1.8500				

PUMPAGE FOR UPPER AQUIFER

TOTAL PUMPAGE 4.625E+01

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	-.0900	2	0.	3	-.2600	4	0.	5	0.
6	0.	7	0.	8	0.	9	0.	10	0.
11	2.4500	12	0.	13	0.	14	-.0100	15	.0200
16	1.0800	17	2.1300	18	0.	19	0.	20	0.
21	.2500	22	0.	23	0.	24	0.	25	1.3300
26	0.	27	.0600	28	0.	29	0.	30	0.
31	0.	32	0.	33	0.	34	-.2500	35	0.
36	.0400	37	.1500	38	0.	39	0.	40	0.
41	.7900	42	0.	43	0.	44	0.	45	-.5900
46	0.	47	0.	48	0.	49	0.	50	1.1200
51	0.	52	.0100	53	0.	54	0.	55	-.2800
56	3.7700	57	.0100	58	.0300	59	0.	60	.3200
61	0.	62	.0400	63	-.5200	64	-.1700	65	-.0900
66	.0700	67	.3100	68	-1.8400	69	-.6700	70	-.1200
71	0.	72	0.	73	-.1600	74	.2800	75	.5100
76	0.	77	.2100	78	.2700	79	.0100	80	1.8700
81	-.1600	82	.8700	83	0.	84	.0400	85	2.9000
86	-.4800	87	-.3100	88	-.6200	89	6.8600	90	4.6300
91	0.	92	0.	93	0.	94	.0300	95	.2000
96	0.	97	-.5000	98	1.0200	99	1.9200	100	-.5100
101	2.1800	102	0.	103	.1400	104	0.	105	0.
106	.3300	107	.7900	108	.3700	109	0.	110	0.
111	.5800	112	-.3400	113	1.5100	114	1.6200	115	.1200
116	-0.	117	0.	118	.5800	119	.1900	120	1.2100
121	2.7500	122	.1700	123	0.	124	0.	125	.2100
126	0.	127	.1100	128	.0700	129	1.0100	130	0.
131	1.7200	132	0.	133	0.	134	0.	135	.2600
136	.3000	137	.2200	138	0.	139	1.1600	140	0.
141	0.	142	.1700	143	0.	144	0.	145	0.
146	0.	147	0.	148	.0300	149	0.	150	0.
151	1.3400	152	.2700	153	0.	154	.5400	155	0.
156	0.	157	0.	158	.0300	159	0.	160	0.
161	.1500	162	0.	163	0.	164	.0500	165	.3300
166	-.1000	167	-.1000	168	0.	169	-.0800	170	0.
171	.0300	172	.0400	173	.0700	174	0.	175	.0400
176	0.	177	.1100	178	.1000				

PUMPAGE FOR LOWER AQUIFER

TOTAL PUMPAGE 1.150E+02

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	.4200	2	0.	3	1.1800	4	0.	5	0.
6	0.	7	0.	8	0.	9	0.	10	0.
11	3.0600	12	0.	13	0.	14	.0600	15	.0400
16	.7100	17	2.7200	18	0.	19	0.	20	0.
21	.5200	22	0.	23	0.	24	0.	25	1.8200
26	0.	27	1.7800	28	0.	29	0.	30	0.
31	0.	32	0.	33	0.	34	1.7500	35	.5200
36	.9300	37	.7300	38	0.	39	0.	40	0.
41	6.7500	42	0.	43	0.	44	0.	45	2.6400
46	0.	47	.5100	48	0.	49	0.	50	2.8100
51	0.	52	.0400	53	0.	54	0.	55	1.8400
56	2.5900	57	0.	58	.0600	59	0.	60	.5700
61	0.	62	.0200	63	2.3100	64	1.1200	65	.7100
66	0.	67	.0400	68	6.1400	69	7.7900	70	.5300
71	0.	72	0.	73	.7500	74	1.7300	75	.5700
76	0.	77	.4900	78	3.3900	79	.0300	80	1.0400
81	.5400	82	2.1700	83	0.	84	.0200	85	.3200
86	5.5200	87	2.4600	88	3.3900	89	1.5900	90	.8800
91	0.	92	0.	93	0.	94	.3800	95	.2700
96	0.	97	1.9900	98	1.3200	99	5.5600	100	2.7600
101	.8200	102	0.	103	1.5900	104	0.	105	0.
106	.5400	107	.6200	108	.5600	109	0.	110	0.
111	1.5900	112	3.2200	113	.4400	114	.7500	115	.0900
116	.0100	117	0.	118	.2800	119	.1000	120	.1100
121	.5700	122	1.9200	123	0.	124	0.	125	.2800
126	0.	127	.4800	128	.5700	129	.7500	130	0.
131	.8800	132	0.	133	0.	134	0.	135	.0600
136	.3700	137	.5300	138	0.	139	1.1800	140	0.
141	0.	142	.0200	143	0.	144	0.	145	0.
146	0.	147	0.	148	.0600	149	0.	150	0.
151	.6000	152	.1500	153	0.	154	.3200	155	0.
156	0.	157	0.	158	0.	159	0.	160	0.
161	.0800	162	0.	163	0.	164	.1200	165	.1200
166	1.4300	167	1.0600	168	0.	169	.4000	170	0.
171	.2200	172	.0900	173	1.0000	174	0.	175	.1000
176	0.	177	.7800	178	.2400				

MULTIPLICATION FACTORS FOR SOURCE AND SINK DISCHARGE

STEP	UPPER AQUIFER		LOWER AQUIFER	
	RECHARGE	PUMPAGE	RECHARGE	PUMPAGE
8	-1.0000	1.0000	-1.0000	1.0000

SOURCE AND SINK DISCHARGE FOR TIME STEPS 9 TO 9

RECHARGE FOR UPPER AQUIFER

TOTAL RECHARGE 2.255E+02

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	2.7400	2	2.7700	3	1.9200	4	0.	5	.3800
6	0.	7	1.1500	8	2.0000	9	2.4600	10	0.
11	5.7700	12	0.	13	.7700	14	1.0800	15	4.2900
16	5.5400	17	4.6200	18	0.	19	0.	20	.7700
21	4.3900	22	8.1400	23	.4300	24	.3100	25	.1500
26	0.	27	0.	28	0.	29	0.	30	.1200
31	3.4400	32	0.	33	1.5300	34	1.1500	35	.2300
36	1.6200	37	1.5400	38	1.0800	39	.7700	40	1.1700
41	2.1900	42	1.5300	43	1.5300	44	.6900	45	.7700
46	.2300	47	.7700	48	1.1300	49	9.2000	50	1.1500
51	.3800	52	0.	53	.3100	54	0.	55	2.0000
56	1.7900	57	3.8600	58	2.3100	59	-2.0000	60	0.
61	0.	62	0.	63	0.	64	0.	65	1.2800
66	0.	67	0.	68	0.	69	0.	70	0.
71	0.	72	0.	73	0.	74	.7700	75	3.3200
76	2.6900	77	-16.5000	78	0.	79	0.	80	0.
81	.3800	82	0.	83	.7600	84	1.7800	85	0.
86	0.	87	0.	88	0.	89	0.	90	0.
91	1.1500	92	0.	93	1.6200	94	.6200	95	5.3900
96	-2.5000	97	0.	98	0.	99	0.	100	0.
101	.3800	102	0.	103	1.0200	104	2.5500	105	5.1000
106	1.5300	107	0.	108	.7700	109	4.2300	110	.6200
111	0.	112	.6900	113	0.	114	1.9200	115	2.5500
116	.3100	117	.3100	118	.7700	119	.7700	120	3.0800
121	2.9300	122	1.4600	123	7.8800	124	0.	125	3.8500
126	.3100	127	.1500	128	1.9200	129	1.9200	130	1.5400
131	.7700	132	7.6500	133	5.1000	134	.3800	135	0.
136	.3800	137	.3800	138	0.	139	0.	140	0.
141	5.1000	142	2.2300	143	1.1500	144	.9200	145	1.1500
146	0.	147	0.	148	.3800	149	0.	150	.6900
151	1.7700	152	0.	153	.1500	154	0.	155	10.2000
156	7.7900	157	3.0900	158	4.7800	159	4.6300	160	0.
161	4.3100	162	2.3600	163	0.	164	2.3400	165	.2300
166	1.6200	167	3.4600	168	.7700	169	2.1600	170	3.5400
171	.3100	172	0.	173	.3100	174	.3100	175	0.
176	1.0800	177	2.6900	178	1.8500				

PUMPAGE FOR UPPER AQUIFER

TOTAL PUMPAGE 4.825E+01

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	-.0900	2	0.	3	-.2600	4	0.	5	0.
6	0.	7	0.	8	0.	9	0.	10	0.
11	2.4500	12	0.	13	0.	14	-.0100	15	.0200
16	1.0800	17	2.1300	18	0.	19	0.	20	0.
21	.2500	22	0.	23	0.	24	0.	25	1.3300
26	0.	27	.0600	28	0.	29	0.	30	0.
31	0.	32	0.	33	0.	34	-.2500	35	0.
36	.0400	37	.1500	38	0.	39	0.	40	0.
41	.7900	42	0.	43	0.	44	0.	45	-.5900
46	0.	47	0.	48	0.	49	0.	50	1.1200
51	0.	52	.0100	53	0.	54	0.	55	-.2800
56	3.7700	57	.0100	58	.0300	59	0.	60	.3200
61	0.	62	.0400	63	-.5200	64	-.1700	65	-.0900
66	.0700	67	.3100	68	-1.8400	69	-.6700	70	-.1200
71	0.	72	0.	73	-.1600	74	.2800	75	.5100
76	0.	77	.2100	78	.2700	79	.0100	80	1.8700
81	-.1600	82	.8700	83	0.	84	.0400	85	2.9000
86	-.4800	87	-.3100	88	-.6200	89	6.8600	90	4.6300
91	0.	92	0.	93	0.	94	.0300	95	.2000
96	0.	97	-.5000	98	1.0200	99	1.9200	100	-.5100
101	2.1800	102	0.	103	.1400	104	0.	105	0.
106	.3300	107	.7900	108	.3700	109	0.	110	0.
111	.5800	112	-.3400	113	1.5100	114	1.6200	115	.1200
116	-0.	117	0.	118	.5800	119	.1900	120	1.2100
121	2.7500	122	.1700	123	0.	124	0.	125	.2100
126	0.	127	.1100	128	.0700	129	1.0100	130	0.
131	1.7200	132	0.	133	0.	134	0.	135	.2600
136	.3000	137	.2200	138	0.	139	1.1600	140	0.
141	0.	142	.1700	143	0.	144	0.	145	0.
146	0.	147	0.	148	.0300	149	0.	150	0.
151	1.3400	152	.2700	153	0.	154	.5400	155	0.
156	0.	157	0.	158	.0300	159	0.	160	0.
161	.1500	162	0.	163	0.	164	.0500	165	.3300
166	-.1000	167	-.1000	168	0.	169	-.0800	170	0.
171	.0300	172	.0400	173	.0700	174	0.	175	.0400
176	0.	177	.1100	178	.1000				

PUMPAGE FOR LOWER AQUIFER

TOTAL PUMPAGE 1.150E+02

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	.4200	2	0.	3	1.1800	4	0.	5	0.
6	0.	7	0.	8	0.	9	0.	10	0.
11	3.0600	12	0.	13	0.	14	.0600	15	.0400
16	.7100	17	2.7200	18	0.	19	0.	20	0.
21	.5200	22	0.	23	0.	24	0.	25	1.8200
26	0.	27	1.7800	28	0.	29	0.	30	0.
31	0.	32	0.	33	0.	34	1.7500	35	.5200
36	.9300	37	.7300	38	0.	39	0.	40	0.
41	6.7500	42	0.	43	0.	44	0.	45	2.6400
46	0.	47	.5100	48	0.	49	0.	50	2.8100
51	0.	52	.0400	53	0.	54	0.	55	1.8400
56	2.5900	57	0.	58	.0600	59	0.	60	.5700
61	0.	62	.0200	63	2.3100	64	1.1200	65	.7100
66	0.	67	.0400	68	6.1400	69	7.7900	70	.5300
71	0.	72	0.	73	.7500	74	1.7300	75	.5700
76	0.	77	.4900	78	3.3900	79	.0300	80	1.0400
81	.5400	82	2.1700	83	0.	84	.0200	85	.3200
86	5.5200	87	2.4600	88	3.3900	89	1.5900	90	.8800
91	0.	92	0.	93	0.	94	.3800	95	.2700
96	0.	97	1.9900	98	1.3200	99	5.5600	100	2.7600
101	.8200	102	0.	103	1.5900	104	0.	105	0.
106	.5400	107	.6200	108	.5600	109	0.	110	0.
111	1.5900	112	3.2200	113	.4400	114	.7500	115	.0900
116	.0100	117	0.	118	.2800	119	.1000	120	.1100
121	.5700	122	1.9200	123	0.	124	0.	125	.2800
126	0.	127	.4800	128	.5700	129	.7500	130	0.
131	.6800	132	0.	133	0.	134	0.	135	.0600
136	.3700	137	.5300	138	0.	139	1.1800	140	0.
141	0.	142	.0200	143	0.	144	0.	145	0.
146	0.	147	0.	148	.0600	149	0.	150	0.
151	.6000	152	.1500	153	0.	154	.3200	155	0.
156	0.	157	0.	158	0.	159	0.	160	0.
161	.0800	162	0.	163	0.	164	.1200	165	.1200
166	1.4300	167	1.0600	168	0.	169	.4000	170	0.
171	.2200	172	.0900	173	1.0000	174	0.	175	.1000
176	0.	177	.7800	178	.2400				

MULTIPLICATION FACTORS FOR SOURCE AND SINK DISCHARGE

STEP	UPPER AQUIFER RECHARGE	UPPER AQUIFER PUMPAGE	LOWER AQUIFER RECHARGE	LOWER AQUIFER PUMPAGE
9	-1.0000	1.0000	-1.0000	1.0000

SOURCE AND SINK DISCHARGE FOR TIME STEPS 10 TO 10

RECHARGE FOR UPPER AQUIFER

TOTAL RECHARGE 2.304E+02

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	2.7400	2	2.7700	3	1.9200	4	0.	5	.3800
6	0.	7	1.1500	8	2.0000	9	2.4600	10	0.
11	5.7700	12	0.	13	.7700	14	1.0800	15	4.4400
16	5.5400	17	4.6200	18	0.	19	0.	20	.7700
21	4.5900	22	8.4900	23	.4300	24	.3100	25	.1500
26	0.	27	0.	28	0.	29	0.	30	.1200
31	3.5900	32	0.	33	1.6000	34	1.1500	35	.2300
36	1.6200	37	1.5400	38	1.0800	39	.7700	40	1.2200
41	2.2900	42	1.6000	43	1.6000	44	.6900	45	.7700
46	.2300	47	.7700	48	1.1500	49	9.5000	50	1.1500
51	.3800	52	0.	53	.3100	54	0.	55	2.0000
56	1.8400	57	3.9800	58	2.3100	59	-2.0000	60	0.
61	0.	62	0.	63	0.	64	0.	65	1.3000
66	0.	67	0.	68	0.	69	0.	70	0.
71	0.	72	0.	73	0.	74	.7700	75	3.4400
76	2.6900	77	-16.5000	78	0.	79	0.	80	0.
81	.3800	82	0.	83	.8000	84	1.8700	85	0.
86	0.	87	0.	88	0.	89	0.	90	0.
91	1.1500	92	0.	93	1.6200	94	.6200	95	5.3900
96	-2.5000	97	0.	98	0.	99	0.	100	0.
101	.3800	102	0.	103	1.0700	104	2.6700	105	5.3500
106	1.6000	107	0.	108	.7700	109	4.2300	110	.6200
111	0.	112	.6900	113	0.	114	1.9200	115	2.6700
116	.3100	117	.3100	118	.7700	119	.7700	120	3.0800
121	2.9300	122	1.4600	123	8.2500	124	0.	125	3.8500
126	.3100	127	.1500	128	1.9200	129	1.9200	130	1.5400
131	.7700	132	8.0200	133	5.3500	134	.3800	135	0.
136	.3800	137	.3800	138	0.	139	0.	140	0.
141	5.3500	142	2.2300	143	1.1500	144	.9200	145	1.1500
146	0.	147	0.	148	.3800	149	0.	150	.6900
151	1.7700	152	0.	153	.1500	154	0.	155	10.7000
156	8.0400	157	3.2100	158	4.9000	159	4.7500	160	0.
161	4.3100	162	2.3600	163	0.	164	2.3400	165	.2300
166	1.6200	167	3.4600	168	.7700	169	2.1600	170	3.5400
171	.3100	172	0.	173	.3100	174	.3100	175	0.
176	1.0800	177	2.6900	178	1.8500				

PUMPAGE FOR UPPER AQUIFER

TOTAL PUMPAGE 4.325E+01

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	-.0400	2	0.	3	-.2600	4	0.	5	0.
6	0.	7	0.	8	0.	9	0.	10	0.
11	2.4500	12	0.	13	0.	14	-.0100	15	.0200
16	1.0800	17	2.1300	18	0.	19	0.	20	0.
21	.2500	22	0.	23	0.	24	0.	25	1.3300
26	0.	27	.0600	28	0.	29	0.	30	0.
31	0.	32	0.	33	0.	34	-.2500	35	0.
36	.0400	37	.1500	38	0.	39	0.	40	0.
41	.7900	42	0.	43	0.	44	0.	45	-.5900
46	0.	47	0.	48	0.	49	0.	50	1.1200
51	0.	52	.0100	53	0.	54	0.	55	-.2800
56	3.7700	57	.0100	58	.0300	59	0.	60	.3200
61	0.	62	.0400	63	-.5200	64	-.1700	65	-.0900
66	.0700	67	.3100	68	-1.8400	69	-.6700	70	-.1200
71	0.	72	0.	73	-.1600	74	.2800	75	.5100
76	0.	77	.2100	78	.2700	79	.0100	80	1.8700
81	-.1600	82	.8700	83	0.	84	.0400	85	2.9000
86	-.4800	87	-.3100	88	-.6200	89	6.8600	90	4.6300
91	0.	92	0.	93	0.	94	.0300	95	.2000
96	0.	97	-.5000	98	1.0200	99	1.9200	100	-.5100
101	2.1800	102	0.	103	.1400	104	0.	105	0.
106	.3300	107	.7900	108	.3700	109	0.	110	0.
111	.5800	112	-.3400	113	1.5100	114	1.6200	115	.1200
116	-0.	117	0.	118	.5800	119	.1900	120	1.2100
121	2.7500	122	.1700	123	0.	124	0.	125	.2100
126	0.	127	.1100	128	.0700	129	1.0100	130	0.
131	1.7200	132	0.	133	0.	134	0.	135	.2600
136	.3000	137	.2200	138	0.	139	1.1600	140	0.
141	0.	142	.1700	143	0.	144	0.	145	0.
146	0.	147	0.	148	.0300	149	0.	150	0.
151	1.3400	152	.2700	153	0.	154	.5400	155	0.
156	0.	157	0.	158	.0300	159	0.	160	0.
161	.1500	162	0.	163	0.	164	.0500	165	.3300
166	-.1000	167	-.1000	168	0.	169	-.0800	170	0.
171	.0300	172	.0400	173	.0700	174	0.	175	.0400
176	0.	177	.1100	178	.1000				

PUMPAGE FOR LOWER AQUIFER

TOTAL PUMPAGE 1.150E+02

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	.4200	2	0.	3	1.1800	4	0.	5	0.
6	0.	7	0.	8	0.	9	0.	10	0.
11	3.0600	12	0.	13	0.	14	.0600	15	.0400
16	.7100	17	2.7200	18	0.	19	0.	20	0.
21	.5200	22	0.	23	0.	24	0.	25	1.8200
26	0.	27	1.7800	28	0.	29	0.	30	0.
31	0.	32	0.	33	0.	34	1.7500	35	.5200
36	.9300	37	.7300	38	0.	39	0.	40	0.
41	6.7500	42	0.	43	0.	44	0.	45	2.6400
46	0.	47	.5100	48	0.	49	0.	50	2.8100
51	0.	52	.0400	53	0.	54	0.	55	1.8400
56	2.5900	57	0.	58	.0600	59	0.	60	.5700
61	0.	62	.0200	63	2.3100	64	1.1200	65	.7100
66	0.	67	.0400	68	6.1400	69	7.7900	70	.5300
71	0.	72	0.	73	.7500	74	1.7300	75	.5700
76	0.	77	.4900	78	3.3900	79	.0300	80	1.0400
81	.5400	82	2.1700	83	0.	84	.0200	85	.3200
86	5.5200	87	2.4600	88	3.3900	89	1.5900	90	.8800
91	0.	92	0.	93	0.	94	.3800	95	.2700
96	0.	97	1.9900	98	1.3200	99	5.5600	100	2.7600
101	.8200	102	0.	103	1.5900	104	0.	105	0.
106	.5400	107	.6200	108	.5600	109	0.	110	0.
111	1.5900	112	3.2200	113	.4400	114	.7500	115	.0900
116	.0100	117	0.	118	.2800	119	.1000	120	.1100
121	.5700	122	1.9200	123	0.	124	0.	125	.2800
126	0.	127	.4800	128	.5700	129	.7500	130	0.
131	.5800	132	0.	133	0.	134	0.	135	.0600
136	.3700	137	.5300	138	0.	139	1.1800	140	0.
141	0.	142	.0200	143	0.	144	0.	145	0.
146	0.	147	0.	148	.0600	149	0.	150	0.
151	.6000	152	.1500	153	0.	154	.3200	155	0.
156	0.	157	0.	158	0.	159	0.	160	0.
161	.0800	162	0.	163	0.	164	.1200	165	.1200
166	1.4300	167	1.0600	168	0.	169	.4000	170	0.
171	.2200	172	.0900	173	1.0000	174	0.	175	.1000
176	0.	177	.7800	178	.2400				

MULTIPLICATION FACTORS FOR SOURCE AND SINK DISCHARGE

STEP	UPPER AQUIFER		LOWER AQUIFER	
	RECHARGE	PUMPAGE	RECHARGE	PUMPAGE
10	-1.0000	1.0000	-1.0000	1.0000

SOURCE AND SINK DISCHARGE FOR TIME STEPS 11 TO 11

RECHARGE FOR UPPER AQUIFER

TOTAL RECHARGE 2.355E+02

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	2.7400	2	2.7700	3	1.9200	4	0.	5	.3800
6	0.	7	1.1500	8	2.0000	9	2.4600	10	0.
11	5.7700	12	0.	13	.7700	14	1.0800	15	4.5900
16	5.5400	17	4.6200	18	0.	19	0.	20	.7700
21	4.7900	22	8.8400	23	.4300	24	.3100	25	.1500
26	0.	27	0.	28	0.	29	0.	30	.1200
31	3.7400	32	0.	33	1.6800	34	1.1500	35	.2300
36	1.6200	37	1.5400	38	1.0800	39	.7700	40	1.2700
41	2.3900	42	1.6800	43	1.6800	44	.6900	45	.7700
46	.2300	47	.7700	48	1.1800	49	9.8000	50	1.1500
51	.3800	52	0.	53	.3100	54	0.	55	2.0000
56	1.8900	57	4.1100	58	2.3100	59	2.0000	60	0.
61	0.	62	0.	63	0.	64	0.	65	1.3300
66	0.	67	0.	68	0.	69	0.	70	0.
71	0.	72	0.	73	0.	74	.7700	75	3.5700
76	2.6900	77	-16.5000	78	0.	79	0.	80	0.
81	.3800	82	0.	83	.8400	84	1.9600	85	0.
86	0.	87	0.	88	0.	89	0.	90	0.
91	1.1500	92	0.	93	1.6200	94	.6200	95	5.3900
96	-2.5000	97	0.	98	0.	99	0.	100	0.
101	.3800	102	0.	103	1.1200	104	2.8000	105	5.6000
106	1.6800	107	0.	108	.7700	109	4.2300	110	.6200
111	0.	112	.6900	113	0.	114	1.9200	115	2.8000
116	.3100	117	.3100	118	.7700	119	.7700	120	3.0800
121	2.9300	122	1.4600	123	8.6300	124	0.	125	3.8500
126	.3100	127	.1500	128	1.9200	129	1.9200	130	1.5400
131	.7700	132	8.4000	133	5.6000	134	.3800	135	0.
136	.3800	137	.3800	138	0.	139	0.	140	0.
141	5.6000	142	2.2300	143	1.1500	144	.9200	145	1.1500
146	0.	147	0.	148	.3800	149	0.	150	.6900
151	1.7700	152	0.	153	.1500	154	0.	155	11.2000
156	8.2900	157	3.3400	158	5.0300	159	4.8800	160	0.
161	4.3100	162	2.3600	163	0.	164	2.3400	165	.2300
166	1.6200	167	3.4600	168	.7700	169	2.1600	170	3.5400
171	.3100	172	0.	173	.3100	174	.3100	175	0.
176	1.0800	177	2.6900	178	1.8500				

PUMPAGE FOR UPPER AQUIFER

TOTAL PUMPAGE 4.825E+01

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	-.0900	2	0.	3	-.2600	4	0.	5	0.
6	0.	7	0.	8	0.	9	0.	10	0.
11	2.4500	12	0.	13	0.	14	-.0100	15	.0200
16	1.0800	17	2.1300	18	0.	19	0.	20	0.
21	.2500	22	0.	23	0.	24	0.	25	1.3300
26	0.	27	.0600	28	0.	29	0.	30	0.
31	0.	32	0.	33	0.	34	-.2500	35	0.
36	.0400	37	.1500	38	0.	39	0.	40	0.
41	.7900	42	0.	43	0.	44	0.	45	-.5900
46	0.	47	0.	48	0.	49	0.	50	1.1200
51	0.	52	.0100	53	0.	54	0.	55	-.2800
56	3.7700	57	.0100	58	.0300	59	0.	60	.3200
61	0.	62	.0400	63	-.5200	64	-.1700	65	-.0900
66	.0700	67	.3100	68	-1.8400	69	-.6700	70	-.1200
71	0.	72	0.	73	-.1600	74	.2800	75	.5100
76	0.	77	.2100	78	.2700	79	.0100	80	1.8700
81	-.1600	82	.8700	83	0.	84	.0400	85	2.9000
86	-.4800	87	-.3100	88	-.6200	89	6.8600	90	4.6300
91	0.	92	0.	93	0.	94	.0300	95	.2000
96	0.	97	-.5000	98	1.0200	99	1.9200	100	-.5100
101	2.1800	102	0.	103	.1400	104	0.	105	0.
106	.3300	107	.7900	108	.3700	109	0.	110	0.
111	.5800	112	-.3400	113	1.5100	114	1.6200	115	.1200
116	-0.	117	0.	118	.5800	119	.1900	120	1.2100
121	2.7500	122	.1700	123	0.	124	0.	125	.2100
126	0.	127	.1100	128	.0700	129	1.0100	130	0.
131	1.7200	132	0.	133	0.	134	0.	135	.2600
136	.3000	137	.2200	138	0.	139	1.1600	140	0.
141	0.	142	.1700	143	0.	144	0.	145	0.
146	0.	147	0.	148	.0300	149	0.	150	0.
151	1.3400	152	.2700	153	0.	154	.5400	155	0.
156	0.	157	0.	158	.0300	159	0.	160	0.
161	.1500	162	0.	163	0.	164	.0500	165	.3300
166	-.1000	167	-.1000	168	0.	169	-.0800	170	0.
171	.0300	172	.0400	173	.0700	174	0.	175	.0400
176	0.	177	.1100	178	.1000				

PUMPAGE FOR LOWER AQUIFER

TOTAL PUMPAGE 1.130E+02

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	.4200	2	0.	3	1.1800	4	0.	5	0.
6	0.	7	0.	8	0.	9	0.	10	0.
11	3.0600	12	0.	13	0.	14	.0600	15	.0400
16	.7100	17	2.7200	18	0.	19	0.	20	0.
21	.5200	22	0.	23	0.	24	0.	25	1.8200
26	0.	27	1.7800	28	0.	29	0.	30	0.
31	0.	32	0.	33	0.	34	1.7500	35	.5200
36	.9300	37	.7300	38	0.	39	0.	40	0.
41	6.7500	42	0.	43	0.	44	0.	45	2.6400
46	0.	47	.5100	48	0.	49	0.	50	2.8100
51	0.	52	.0400	53	0.	54	0.	55	1.8400
56	2.5900	57	0.	58	.0600	59	0.	60	.5700
61	0.	62	.0200	63	2.3100	64	1.1200	65	.7100
66	0.	67	.0400	68	6.1400	69	7.7900	70	.5300
71	0.	72	0.	73	.7500	74	1.7300	75	.5700
76	0.	77	.4900	78	3.3900	79	.0300	80	1.0400
81	.5400	82	2.1700	83	0.	84	.0200	85	.3200
86	5.5200	87	2.4600	88	3.3900	89	1.5900	90	.8800
91	0.	92	0.	93	0.	94	.3800	95	.2700
96	0.	97	1.9900	98	1.3200	99	5.5600	100	2.7600
101	.8200	102	0.	103	1.5900	104	0.	105	0.
106	.5400	107	.6200	108	.5600	109	0.	110	0.
111	1.5900	112	3.2200	113	.4400	114	.7500	115	.0900
116	.0100	117	0.	118	.2800	119	.1000	120	.1100
121	.5700	122	1.9200	123	0.	124	0.	125	.2800
126	0.	127	.4800	128	.5700	129	.7500	130	0.
131	.8800	132	0.	133	0.	134	0.	135	.0600
136	.3700	137	.5300	138	0.	139	1.1800	140	0.
141	0.	142	.0200	143	0.	144	0.	145	0.
146	0.	147	0.	148	.0600	149	0.	150	0.
151	.6000	152	.1500	153	0.	154	.3200	155	0.
156	0.	157	0.	158	0.	159	0.	160	0.
161	.0800	162	0.	163	0.	164	.1200	165	.1200
166	1.4300	167	1.0600	168	0.	169	.4000	170	0.
171	.2200	172	.0900	173	1.0000	174	0.	175	.1000
176	0.	177	.7800	178	.2400				

MULTIPLICATION FACTORS FOR SOURCE AND SINK DISCHARGE

STEP	UPPER AQUIFER		LOWER AQUIFER	
	RECHARGE	PUMPAGE	RECHARGE	PUMPAGE
11	-1.0000	1.0000	-1.0000	1.0000

SOURCE AND SINK DISCHARGE FOR TIME STEPS 12 TO 12

RECHARGE FOR UPPER AQUIFER

TOTAL RECHARGE 2.405E+02

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	2.7400	2	2.7700	3	1.9200	4	0.	5	.3800
6	0.	7	1.1500	8	2.0000	9	2.4600	10	0.
11	5.7700	12	0.	13	.7700	14	1.0800	15	4.7400
16	5.5400	17	4.6200	18	0.	19	0.	20	.7700
21	4.9900	22	9.1900	23	.4300	24	.3100	25	.1500
26	0.	27	0.	28	0.	29	0.	30	.1200
31	3.8900	32	0.	33	1.7500	34	1.1500	35	.2300
36	1.6200	37	1.5400	38	1.0800	39	.7700	40	1.3200
41	2.4600	42	1.7500	43	1.7500	44	.6900	45	.7700
46	.2300	47	.7700	48	1.2000	49	10.1000	50	1.1500
51	.3800	52	0.	53	.3100	54	0.	55	2.0000
56	1.9400	57	4.2300	58	2.3100	59	-2.0000	60	0.
61	0.	62	0.	63	0.	64	0.	65	1.3500
66	0.	67	0.	68	0.	69	0.	70	0.
71	0.	72	0.	73	0.	74	.7700	75	3.6900
76	2.6900	77	-16.5000	78	0.	79	0.	80	0.
81	.3800	82	0.	83	.8800	84	2.0500	85	0.
86	0.	87	0.	88	0.	89	0.	90	0.
91	1.1500	92	0.	93	1.6200	94	.6200	95	5.3900
96	-2.5000	97	0.	98	0.	99	0.	100	0.
101	.3800	102	0.	103	1.1700	104	2.9200	105	5.8500
106	1.7500	107	0.	108	.7700	109	4.2300	110	.6200
111	0.	112	.6900	113	0.	114	1.9200	115	2.9200
116	.3100	117	.3100	118	.7700	119	.7700	120	3.0800
121	2.9300	122	1.4600	123	9.0000	124	0.	125	3.8500
126	.3100	127	.1500	128	1.9200	129	1.9200	130	1.5400
131	.7700	132	8.7700	133	5.8500	134	.3800	135	0.
136	.3800	137	.3800	138	0.	139	0.	140	0.
141	5.8500	142	2.2300	143	1.1500	144	.9200	145	1.1500
146	0.	147	0.	148	.3800	149	0.	150	.6900
151	1.7700	152	0.	153	.1500	154	0.	155	11.7000
156	8.5400	157	3.4600	158	5.1500	159	5.0000	160	0.
161	4.3100	162	2.3600	163	0.	164	2.3400	165	.2300
166	1.6200	167	3.4600	168	.7700	169	2.1600	170	3.5400
171	.3100	172	0.	173	.3100	174	.3100	175	0.
176	1.0800	177	2.6900	178	1.8500				

PUMPAGE FOR UPPER AQUIFER

TOTAL PUMPAGE 4.825E+01

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	-.0900	2	0.	3	-.2600	4	0.	5	0.
6	0.	7	0.	8	0.	9	0.	10	0.
11	2.4500	12	0.	13	0.	14	-.0100	15	.0200
16	1.0800	17	2.1300	18	0.	19	0.	20	0.
21	.2500	22	0.	23	0.	24	0.	25	1.3300
26	0.	27	.0600	28	0.	29	0.	30	0.
31	0.	32	0.	33	0.	34	-.2500	35	0.
36	.0400	37	.1500	38	0.	39	0.	40	0.
41	.7900	42	0.	43	0.	44	0.	45	-.5900
46	0.	47	0.	48	0.	49	0.	50	1.1200
51	0.	52	.0100	53	0.	54	0.	55	-.2800
56	3.7700	57	.0100	58	.0300	59	0.	60	.3200
61	0.	62	.0400	63	-.5200	64	-.1700	65	-.0900
66	.0700	67	.3100	68	-1.8400	69	-.6700	70	-.1200
71	0.	72	0.	73	-.1600	74	.2800	75	.5100
76	0.	77	.2100	78	.2700	79	.0100	80	1.8700
81	-.1600	82	.8700	83	0.	84	.0400	85	2.9000
86	-.4800	87	-.3100	88	-.6200	89	6.8600	90	4.6300
91	0.	92	0.	93	0.	94	.0300	95	.2000
96	0.	97	-.5000	98	1.0200	99	1.9200	100	-.5100
101	2.1800	102	0.	103	.1400	104	0.	105	0.
106	.3300	107	.7900	108	.3700	109	0.	110	0.
111	.5800	112	-.3400	113	1.5100	114	1.6200	115	.1200
116	-0.	117	0.	118	.5800	119	.1900	120	1.2100
121	2.7500	122	.1700	123	0.	124	0.	125	.2100
126	0.	127	.1100	128	.0700	129	1.0100	130	0.
131	1.7200	132	0.	133	0.	134	0.	135	.2600
136	.3000	137	.2200	138	0.	139	1.1600	140	0.
141	0.	142	.1700	143	0.	144	0.	145	0.
146	0.	147	0.	148	.0300	149	0.	150	0.
151	1.3400	152	.2700	153	0.	154	.5400	155	0.
156	0.	157	0.	158	.0300	159	0.	160	0.
161	.1500	162	0.	163	0.	164	.0500	165	.3300
166	-.1000	167	-.1000	168	0.	169	-.0800	170	0.
171	.0300	172	.0400	173	.0700	174	0.	175	.0400
176	0.	177	.1100	178	.1000				

PUMPAGE FOR LOWER AQUIFER

TOTAL PUMPAGE 1.15DE+02

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	.4200	2	0.	3	1.1800	4	0.	5	0.
6	0.	7	0.	8	0.	9	0.	10	0.
11	3.0600	12	0.	13	0.	14	.0600	15	.0400
16	.7100	17	2.7200	18	0.	19	0.	20	0.
21	.5200	22	0.	23	0.	24	0.	25	1.8200
26	0.	27	1.7800	28	0.	29	0.	30	0.
31	0.	32	0.	33	0.	34	1.7500	35	.5200
36	.9300	37	.7300	38	0.	39	0.	40	0.
41	6.7500	42	0.	43	0.	44	0.	45	2.6400
46	0.	47	.5100	48	0.	49	0.	50	2.8100
51	0.	52	.0400	53	0.	54	0.	55	1.8400
56	2.5900	57	0.	58	.0600	59	0.	60	.5700
61	0.	62	.0200	63	2.3100	64	1.1200	65	.7100
66	0.	67	.0400	68	6.1400	69	7.7900	70	.5300
71	0.	72	0.	73	.7500	74	1.7300	75	.5700
76	0.	77	.4900	78	4.3900	79	.0300	80	1.0400
81	.5400	82	2.1700	83	0.	84	.0200	85	.3200
86	5.5200	87	2.4600	88	3.3900	89	1.5900	90	.8800
91	0.	92	0.	93	0.	94	.3800	95	.2700
96	0.	97	1.9900	98	1.3200	99	5.5600	100	2.7600
101	.8200	102	0.	103	1.5900	104	0.	105	0.
106	.5400	107	.6200	108	.5600	109	0.	110	0.
111	1.5900	112	3.2200	113	.4400	114	.7500	115	.0900
116	.0100	117	0.	118	.2800	119	.1000	120	.1100
121	.5700	122	1.9200	123	0.	124	0.	125	.2800
126	0.	127	.4800	128	.5700	129	.7500	130	0.
131	.8800	132	0.	133	0.	134	0.	135	.0600
136	.3700	137	.5300	138	0.	139	1.1800	140	0.
141	0.	142	.0200	143	0.	144	0.	145	0.
146	0.	147	0.	148	.0600	149	0.	150	0.
151	.6000	152	.1500	153	0.	154	.3200	155	0.
156	0.	157	0.	158	0.	159	0.	160	0.
161	.0400	162	0.	163	0.	164	.1200	165	.1200
166	1.4300	167	1.0600	168	0.	169	.4000	170	0.
171	.2200	172	.0900	173	1.0000	174	0.	175	.1000
176	0.	177	.7800	178	.2400				

MULTIPLICATION FACTORS FOR SOURCE AND SINK DISCHARGE

STEP	UPPER AQUIFER		LOWER AQUIFER	
	RECHARGE	PUMPAGE	RECHARGE	PUMPAGE
12	-1.0000	1.0000	-1.0000	1.0000

SOURCE AND SINK DISCHARGE FOR TIME STEPS 13 TO 13

RECHARGE FOR UPPER AQUIFER

TOTAL RECHARGE 2.455E+02

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	2.7400	2	2.7700	3	1.9200	4	0.	5	.3800
6	0.	7	1.1500	8	2.0000	9	2.4600	10	0.
11	5.7700	12	0.	13	.7700	14	1.0800	15	4.8900
16	5.5400	17	4.6200	18	0.	19	0.	20	.7700
21	5.1900	22	4.5400	23	.4300	24	.3100	25	.1500
26	0.	27	0.	28	0.	29	0.	30	.1200
31	4.0400	32	0.	33	1.8300	34	1.1500	35	.2300
36	1.6200	37	1.5400	38	1.0800	39	.7700	40	1.3700
41	2.5900	42	1.8300	43	1.8300	44	.6900	45	.7700
46	.2300	47	.7700	48	1.2300	49	10.4000	50	1.1500
51	.3800	52	0.	53	.3100	54	0.	55	2.0000
56	1.9900	57	4.3600	58	2.3100	59	-2.0000	60	0.
61	0.	62	0.	63	0.	64	0.	65	1.3800
66	0.	67	0.	68	0.	69	0.	70	0.
71	0.	72	0.	73	0.	74	.7700	75	3.8200
76	2.6900	77	-16.5000	78	0.	79	0.	80	0.
81	.3800	82	0.	83	.9100	84	2.1300	85	0.
86	0.	87	0.	88	0.	89	0.	90	0.
91	1.1500	92	0.	93	1.6200	94	.6200	95	5.3900
96	-2.5000	97	0.	98	0.	99	0.	100	0.
101	.3800	102	0.	103	1.2200	104	3.0500	105	6.1000
106	1.8300	107	0.	108	.7700	109	4.2300	110	.6200
111	0.	112	.6900	113	0.	114	1.9200	115	3.0500
116	.3100	117	.3100	118	.7700	119	.7700	120	3.0800
121	2.9300	122	1.4600	123	9.3800	124	0.	125	3.8500
126	.3100	127	.1500	128	1.9200	129	1.9200	130	1.5400
131	.7700	132	9.1500	133	6.1000	134	.3800	135	0.
136	.3800	137	.3800	138	0.	139	0.	140	0.
141	6.1000	142	2.2300	143	1.1500	144	.9200	145	1.1500
146	0.	147	0.	148	.3800	149	0.	150	.6900
151	1.7700	152	0.	153	.1500	154	0.	155	12.2000
156	8.7900	157	3.5900	158	5.2800	159	5.1300	160	0.
161	4.3100	162	2.3600	163	0.	164	2.3400	165	.2300
166	1.6200	167	3.4600	168	.7700	169	2.1600	170	3.5400
171	.3100	172	0.	173	.3100	174	.3100	175	0.
176	1.0800	177	2.6900	178	1.8500				

PUMPAGE FOR UPPER AQUIFER

TOTAL PUMPAGE 4.425E+01

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	-.0900	2	0.	3	-.2600	4	0.	5	0.
6	0.	7	0.	8	0.	9	0.	10	0.
11	2.4500	12	0.	13	0.	14	-.0100	15	.0200
16	1.0800	17	2.1300	18	0.	19	0.	20	0.
21	.2500	22	0.	23	0.	24	0.	25	1.3300
26	0.	27	.0600	28	0.	29	0.	30	0.
31	0.	32	0.	33	0.	34	-.2500	35	0.
36	.0400	37	.1500	38	0.	39	0.	40	0.
41	.7900	42	0.	43	0.	44	0.	45	-.5900
46	0.	47	0.	48	0.	49	0.	50	1.1200
51	0.	52	.0100	53	0.	54	0.	55	-.2800
56	3.7700	57	.0100	58	.0300	59	0.	60	.3200
61	0.	62	.0400	63	-.5200	64	-.1700	65	-.0900
66	.0700	67	.3100	68	-1.8400	69	-.6700	70	-.1200
71	0.	72	0.	73	-.1600	74	.2800	75	.5100
76	0.	77	.2100	78	.2700	79	.0100	80	1.8700
81	-.1600	82	.8700	83	0.	84	.0400	85	2.9000
86	-.4800	87	-.3100	88	-.6200	89	6.8600	90	4.6300
91	0.	92	0.	93	0.	94	.0300	95	.2000
96	0.	97	-.5000	98	1.0200	99	1.9200	100	-.5100
101	2.1800	102	0.	103	.1400	104	0.	105	0.
106	.3300	107	.7900	108	.3700	109	0.	110	0.
111	.5800	112	-.3400	113	1.5100	114	1.6200	115	.1200
116	-0.	117	0.	118	.5800	119	.1900	120	1.2100
121	2.7500	122	.1700	123	0.	124	0.	125	.2100
126	0.	127	.1100	128	.0700	129	1.0100	130	0.
131	1.7200	132	0.	133	0.	134	0.	135	.2600
136	.3000	137	.2200	138	0.	139	1.1600	140	0.
141	0.	142	.1700	143	0.	144	0.	145	0.
146	0.	147	0.	148	.0300	149	0.	150	0.
151	1.3400	152	.2700	153	0.	154	.5400	155	0.
156	0.	157	0.	158	.0300	159	0.	160	0.
161	.1500	162	0.	163	0.	164	.0500	165	.3300
166	-.1000	167	-.1000	168	0.	169	-.0800	170	0.
171	.0300	172	.0400	173	.0700	174	0.	175	.0400
176	0.	177	.1100	178	.1000				

PUMPAGE FOR LOWER AQUIFER

TOTAL PUMPAGE 1.150E+02

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	.4200	2	0.	3	1.1800	4	0.	5	0.
6	0.	7	0.	8	0.	9	0.	10	0.
11	3.0600	12	0.	13	0.	14	.0600	15	.0400
16	.7100	17	2.7200	18	0.	19	0.	20	0.
21	.5200	22	0.	23	0.	24	0.	25	1.8200
26	0.	27	1.7800	28	0.	29	0.	30	0.
31	0.	32	0.	33	0.	34	1.7500	35	.5200
36	.9300	37	.7300	38	0.	39	0.	40	0.
41	6.7500	42	0.	43	0.	44	0.	45	2.6400
46	0.	47	.5100	48	0.	49	0.	50	2.8100
51	0.	52	.0400	53	0.	54	0.	55	1.8400
56	2.5900	57	0.	58	.0600	59	0.	60	.5700
61	0.	62	.0200	63	2.3100	64	1.1200	65	.7100
66	0.	67	.0400	68	6.1400	69	7.7900	70	.5300
71	0.	72	0.	73	.7500	74	1.7300	75	.5700
76	0.	77	.4900	78	3.3900	79	.0300	80	1.0400
81	.5400	82	2.1700	83	0.	84	.0200	85	.3200
86	5.5200	87	2.4600	88	3.3900	89	1.5900	90	.8800
91	0.	92	0.	93	0.	94	.3800	95	.2700
96	0.	97	1.9900	98	1.3200	99	5.5600	100	2.7600
101	.8200	102	0.	103	1.5900	104	0.	105	0.
106	.5400	107	.6200	108	.5600	109	0.	110	0.
111	1.5900	112	3.2200	113	.4400	114	.7500	115	.0900
116	.0100	117	0.	118	.2800	119	.1000	120	.1100
121	.5700	122	1.9200	123	0.	124	0.	125	.2800
126	0.	127	.4800	128	.5700	129	.7500	130	0.
131	.8800	132	0.	133	0.	134	0.	135	.0600
136	.3700	137	.5300	138	0.	139	1.1800	140	0.
141	0.	142	.0200	143	0.	144	0.	145	0.
146	0.	147	0.	148	.0600	149	0.	150	0.
151	.6000	152	.1500	153	0.	154	.3200	155	0.
156	0.	157	0.	158	0.	159	0.	160	0.
161	.0800	162	0.	163	0.	164	.1200	165	.1200
166	1.4300	167	1.0600	168	0.	169	.4000	170	0.
171	.2200	172	.0900	173	1.0000	174	0.	175	.1000
176	0.	177	.7800	178	.2400				

MULTIPLICATION FACTORS FOR SOURCE AND SINK DISCHARGE

STEP	UPPER AQUIFER RECHARGE	UPPER AQUIFER PUMPAGE	LOWER AQUIFER RECHARGE	LOWER AQUIFER PUMPAGE
13	-1.0000	1.0000	-1.0000	1.0000

SOURCE AND SINK DISCHARGE FOR TIME STEPS 14 TO 14

RECHARGE FOR UPPER AQUIFER

TOTAL RECHARGE 2.515E+02

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	2.7400	2	2.7700	3	1.9200	4	0.	5	.3800
6	0.	7	1.1500	8	2.0000	9	2.4600	10	0.
11	5.7700	12	0.	13	.7700	14	1.0800	15	5.0700
16	5.5400	17	4.6200	18	0.	19	0.	20	.7700
21	5.4300	22	9.9600	23	.4300	24	.3100	25	.1500
26	0.	27	0.	28	0.	29	0.	30	.1200
31	4.2200	32	0.	33	1.9200	34	1.1500	35	.2300
36	1.6200	37	1.5400	38	1.0800	39	.7700	40	1.4300
41	2.7100	42	1.9200	43	1.9200	44	.6900	45	.7700
46	.2300	47	.7700	48	1.2600	49	10.7600	50	1.1500
51	.3800	52	0.	53	.3100	54	0.	55	2.0000
56	2.0500	57	4.5100	58	2.3100	59	-2.0000	60	0.
61	0.	62	0.	63	0.	64	0.	65	1.4100
66	0.	67	0.	68	0.	69	0.	70	0.
71	0.	72	0.	73	0.	74	.7700	75	3.9700
76	2.6900	77	-16.5000	78	0.	79	0.	80	0.
81	.3800	82	0.	83	.9600	84	2.2400	85	0.
86	0.	87	0.	88	0.	89	0.	90	0.
91	1.1500	92	0.	93	1.6200	94	.6200	95	5.3900
96	-2.5000	97	0.	98	0.	99	0.	100	0.
101	.3800	102	0.	103	1.2800	104	3.2000	105	6.4000
106	1.9200	107	0.	108	.7700	109	4.2300	110	.6200
111	0.	112	.6900	113	0.	114	1.9200	115	3.2000
116	.3100	117	.3100	118	.7700	119	.7700	120	3.0800
121	2.9300	122	1.4600	123	9.8300	124	0.	125	3.8500
126	.3100	127	.1500	128	1.9200	129	1.9200	130	1.5400
131	.7700	132	9.6000	133	6.4000	134	.3800	135	0.
136	.3800	137	.3800	138	0.	139	0.	140	0.
141	6.4000	142	2.2300	143	1.1500	144	.9200	145	1.1500
146	0.	147	0.	148	.3800	149	0.	150	.6900
151	1.7700	152	0.	153	.1500	154	0.	155	12.8000
156	9.0900	157	3.7400	158	5.4300	159	5.2800	160	0.
161	4.3100	162	2.3600	163	0.	164	2.3400	165	.2300
166	1.6200	167	3.4600	168	.7700	169	2.1600	170	3.5400
171	.3100	172	0.	173	.3100	174	.3100	175	0.
176	1.0800	177	2.6900	178	1.8500				

PUMPAGE FOR UPPER AQUIFER

TOTAL PUMPAGE 4.825E+01

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	-.0900	2	0.	3	-.2600	4	0.	5	0.
6	0.	7	0.	8	0.	9	0.	10	0.
11	2.4500	12	0.	13	0.	14	-.0100	15	.0200
16	1.0800	17	2.1300	18	0.	19	0.	20	0.
21	.2500	22	0.	23	0.	24	0.	25	1.3300
26	0.	27	.0600	28	0.	29	0.	30	0.
31	0.	32	0.	33	0.	34	-.2500	35	0.
36	.0400	37	.1500	38	0.	39	0.	40	0.
41	.7900	42	0.	43	0.	44	0.	45	-.5900
46	0.	47	0.	48	0.	49	0.	50	1.1200
51	0.	52	.0100	53	0.	54	0.	55	-.2800
56	3.7700	57	.0100	58	.0300	59	0.	60	.3200
61	0.	62	.0400	63	-.5200	64	-.1700	65	-.0900
66	.0700	67	.3100	68	-1.8400	69	-.6700	70	-.1200
71	0.	72	0.	73	-.1600	74	.2800	75	.5100
76	0.	77	.2100	78	.2700	79	.0100	80	1.8700
81	-.1600	82	.8700	83	0.	84	.0400	85	2.9000
86	-.4800	87	-.3100	88	-.6200	89	6.8600	90	4.6300
91	0.	92	0.	93	0.	94	.0300	95	.2000
96	0.	97	-.5000	98	1.0200	99	1.9200	100	-.5100
101	2.1800	102	0.	103	.1400	104	0.	105	0.
106	.3300	107	.7900	108	.3700	109	0.	110	0.
111	.5800	112	-.3400	113	1.5100	114	1.6200	115	.1200
116	-0.	117	0.	118	.5800	119	.1900	120	1.2100
121	2.7500	122	.1700	123	0.	124	0.	125	.2100
126	0.	127	.1100	128	.0700	129	1.0100	130	0.
131	1.7200	132	0.	133	0.	134	0.	135	.2600
136	.3000	137	.2200	138	0.	139	1.1600	140	0.
141	0.	142	.1700	143	0.	144	0.	145	0.
146	0.	147	0.	148	.0300	149	0.	150	0.
151	1.3400	152	.2700	153	0.	154	.5400	155	0.
156	0.	157	0.	158	.0300	159	0.	160	0.
161	.1500	162	0.	163	0.	164	.0500	165	.3300
166	-.1000	167	-.1000	168	0.	169	-.0800	170	0.
171	.0300	172	.0400	173	.0700	174	0.	175	.0400
176	0.	177	.1100	178	.1000				

PUMPAGE FOR LOWER AQUIFER

TOTAL PUMPAGE 1.150E+02

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	.4200	2	0.	3	1.1800	4	0.	5	0.
6	0.	7	0.	8	0.	9	0.	10	0.
11	3.0600	12	0.	13	0.	14	.0600	15	.0400
16	.7100	17	2.7200	18	0.	19	0.	20	0.
21	.5200	22	0.	23	0.	24	0.	25	1.8200
26	0.	27	1.7800	28	0.	29	0.	30	0.
31	0.	32	0.	33	0.	34	1.7500	35	.5200
36	.9300	37	.7300	38	0.	39	0.	40	0.
41	6.7500	42	0.	43	0.	44	0.	45	2.6400
46	0.	47	.5100	48	0.	49	0.	50	2.8100
51	0.	52	.0400	53	0.	54	0.	55	1.8400
56	2.5900	57	0.	58	.0600	59	0.	60	.5700
61	0.	62	.0200	63	2.3100	64	1.1200	65	.7100
66	0.	67	.0400	68	6.1400	69	7.7900	70	.5300
71	0.	72	0.	73	.7500	74	1.7300	75	.5700
76	0.	77	.4900	78	3.3900	79	.0300	80	1.0400
81	.5400	82	2.1700	83	0.	84	.0200	85	.3200
86	5.5200	87	2.4600	88	3.3900	89	1.5900	90	.8800
91	0.	92	0.	93	0.	94	.3800	95	.2700
96	0.	97	1.9900	98	1.3200	99	5.5600	100	2.7600
101	.8200	102	0.	103	1.5900	104	0.	105	0.
106	.5400	107	.6200	108	.5600	109	0.	110	0.
111	1.5900	112	3.2200	113	.4400	114	.7500	115	.0900
116	.0100	117	0.	118	.2800	119	.1000	120	.1100
121	.5700	122	1.9200	123	0.	124	0.	125	.2800
126	0.	127	.4800	128	.5700	129	.7500	130	0.
131	.8800	132	0.	133	0.	134	0.	135	.0600
136	.3700	137	.5300	138	0.	139	1.1800	140	0.
141	0.	142	.0200	143	0.	144	0.	145	0.
146	0.	147	0.	148	.0600	149	0.	150	0.
151	.6000	152	.1500	153	0.	154	.3200	155	0.
156	0.	157	0.	158	0.	159	0.	160	0.
161	.0800	162	0.	163	0.	164	.1200	165	.1200
166	1.4300	167	1.0600	168	0.	169	.4000	170	0.
171	.2200	172	.0900	173	1.0000	174	0.	175	.1000
176	0.	177	.7800	178	.2400				

MULTIPLICATION FACTORS FOR SOURCE AND SINK DISCHARGE

STEP	UPPER AQUIFER		LOWER AQUIFER	
	RECHARGE	PUMPAGE	RECHARGE	PUMPAGE
14	-1.0000	1.0000	-1.0000	1.0000

SOURCE AND SINK DISCHARGE FOR TIME STEPS 15 TO 15

RECHARGE FOR UPPER AQUIFER

TOTAL RECHARGE 2.575E+02

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	2.7400	2	2.7700	3	1.9200	4	0.	5	.3800
6	0.	7	1.1500	8	2.0000	9	2.4600	10	0.
11	5.7700	12	0.	13	.7700	14	1.0800	15	5.2500
16	5.5400	17	4.6200	18	0.	19	0.	20	.7700
21	5.6700	22	10.3800	23	.4300	24	.3100	25	.1500
26	0.	27	0.	28	0.	29	0.	30	.1200
31	4.4000	32	0.	33	2.0100	34	1.1500	35	.2300
36	1.6200	37	1.5400	38	1.0800	39	.7700	40	1.4900
41	2.8300	42	2.0100	43	2.0100	44	.6900	45	.7700
46	.2300	47	.7700	48	1.2900	49	11.1200	50	1.1500
51	.3800	52	0.	53	.3100	54	0.	55	2.0000
56	2.1100	57	4.6600	58	2.3100	59	-2.0000	60	0.
61	0.	62	0.	63	0.	64	0.	65	1.4400
66	0.	67	0.	68	0.	69	0.	70	0.
71	0.	72	0.	73	0.	74	.7700	75	4.1200
76	2.6900	77	-16.5000	78	0.	79	0.	80	0.
81	.3800	82	0.	83	1.0000	84	2.3400	85	0.
86	0.	87	0.	88	0.	89	0.	90	0.
91	1.1500	92	0.	93	1.6200	94	.6200	95	5.3900
96	-2.5000	97	0.	98	0.	99	0.	100	0.
101	.3800	102	0.	103	1.3400	104	3.3500	105	6.7000
106	2.0100	107	0.	108	.7700	109	4.2300	110	.6200
111	0.	112	.6900	113	0.	114	1.9200	115	3.3500
116	.3100	117	.3100	118	.7700	119	.7700	120	3.0800
121	2.9300	122	1.4600	123	10.2800	124	0.	125	3.8500
126	.3100	127	.1500	128	1.9200	129	1.9200	130	1.5400
131	.7700	132	10.0500	133	6.7000	134	.3800	135	0.
136	.3800	137	.3800	138	0.	139	0.	140	0.
141	6.7000	142	2.2300	143	1.1500	144	.9200	145	1.1500
146	0.	147	0.	148	.3800	149	0.	150	.6900
151	1.7700	152	0.	153	.1500	154	0.	155	13.4000
156	4.3900	157	3.8900	158	5.5800	159	5.4300	160	0.
161	4.3100	162	2.3600	163	0.	164	2.3400	165	.2300
166	1.6200	167	3.4600	168	.7700	169	2.1600	170	3.5400
171	.3100	172	0.	173	.3100	174	.3100	175	0.
176	1.0800	177	2.6900	178	1.8500				

PUMPAGE FOR UPPER AQUIFER

TOTAL PUMPAGE 4.825E+01

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	-.0900	2	0.	3	-.2400	4	0.	5	0.
6	0.	7	0.	8	0.	9	0.	10	0.
11	2.4500	12	0.	13	0.	14	-.0100	15	.0200
16	1.0800	17	2.1300	18	0.	19	0.	20	0.
21	.2500	22	0.	23	0.	24	0.	25	1.3300
26	0.	27	.0600	28	0.	29	0.	30	0.
31	0.	32	0.	33	0.	34	-.2500	35	0.
36	.0400	37	.1500	38	0.	39	0.	40	0.
41	.7900	42	0.	43	0.	44	0.	45	-.5900
46	0.	47	0.	48	0.	49	0.	50	1.1200
51	0.	52	.0100	53	0.	54	0.	55	-.2800
56	3.7700	57	.0100	58	.0300	59	0.	60	.3200
61	0.	62	.0400	63	-.5200	64	-.1700	65	-.0900
66	.0700	67	.3100	68	-1.8400	69	-.6700	70	-.1200
71	0.	72	0.	73	-.1600	74	.2800	75	.5100
76	0.	77	.2100	78	.2700	79	.0100	80	1.8700
81	-.1600	82	.8700	83	0.	84	.0400	85	2.9000
86	-.4800	87	-.3100	88	-.6200	89	6.8600	90	4.6300
91	0.	92	0.	93	0.	94	.0300	95	.2000
96	0.	97	-.5000	98	1.0200	99	1.9200	100	-.5100
101	2.1800	102	0.	103	.1400	104	0.	105	0.
106	.3300	107	.7900	108	.3700	109	0.	110	0.
111	.5800	112	-.3400	113	1.5100	114	1.6200	115	.1200
116	-0.	117	0.	118	.5800	119	.1900	120	1.2100
121	2.7500	122	.1700	123	0.	124	0.	125	.2100
126	0.	127	.1100	128	.0700	129	1.0100	130	0.
131	1.7200	132	0.	133	0.	134	0.	135	.2600
136	.3000	137	.2200	138	0.	139	1.1600	140	0.
141	0.	142	.1700	143	0.	144	0.	145	0.
146	0.	147	0.	148	.0300	149	0.	150	0.
151	1.3400	152	.2700	153	0.	154	.5400	155	0.
156	0.	157	0.	158	.0300	159	0.	160	0.
161	.1500	162	0.	163	0.	164	.0500	165	.3300
166	-.1000	167	-.1000	168	0.	169	-.0800	170	0.
171	.0300	172	.0400	173	.0700	174	0.	175	.0400
176	0.	177	.1100	178	.1000				

PUMPAGE FOR LOWER AQUIFER

TOTAL PUMPAGE 1.150E+02

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	.4200	2	0.	3	1.1800	4	0.	5	0.
6	0.	7	0.	8	0.	9	0.	10	0.
11	3.0600	12	0.	13	0.	14	.0600	15	.0400
16	.7100	17	2.7200	18	0.	19	0.	20	0.
21	.5200	22	0.	23	0.	24	0.	25	1.8200
26	0.	27	1.7800	28	0.	29	0.	30	0.
31	0.	32	0.	33	0.	34	1.7500	35	.5200
36	.9300	37	.7300	38	0.	39	0.	40	0.
41	6.7500	42	0.	43	0.	44	0.	45	2.6400
46	0.	47	.5100	48	0.	49	0.	50	2.8100
51	0.	52	.0400	53	0.	54	0.	55	1.8400
56	2.5900	57	0.	58	.0600	59	0.	60	.5700
61	0.	62	.0200	63	2.3100	64	1.1200	65	.7100
66	0.	67	.0400	68	6.1400	69	7.7900	70	.5300
71	0.	72	0.	73	.7500	74	1.7300	75	.5700
76	0.	77	.4900	78	3.3900	79	.0300	80	1.0400
81	.5400	82	2.1700	83	0.	84	.0200	85	.3200
86	5.5200	87	2.4600	88	3.3900	89	1.5900	90	.8800
91	0.	92	0.	93	0.	94	.3800	95	.2700
96	0.	97	1.9900	98	1.3200	99	5.5600	100	2.7600
101	.8200	102	0.	103	1.5900	104	0.	105	0.
106	.5400	107	.6200	108	.5600	109	0.	110	0.
111	1.5900	112	3.2200	113	.4400	114	.7500	115	.0900
116	.0100	117	0.	118	.2800	119	.1000	120	.1100
121	.5700	122	1.9200	123	0.	124	0.	125	.2800
126	0.	127	.4800	128	.5700	129	.7500	130	0.
131	.8800	132	0.	133	0.	134	0.	135	.0600
136	.3700	137	.5300	138	0.	139	1.1800	140	0.
141	0.	142	.0200	143	0.	144	0.	145	0.
146	0.	147	0.	148	.0600	149	0.	150	0.
151	.6000	152	.1500	153	0.	154	.3200	155	0.
156	0.	157	0.	158	0.	159	0.	160	0.
161	.0800	162	0.	163	0.	164	.1200	165	.1200
166	1.4300	167	1.0600	168	0.	169	.4000	170	0.
171	.2200	172	.0900	173	1.0000	174	0.	175	.1000
176	0.	177	.7800	178	.2400				

MULTIPLICATION FACTORS FOR SOURCE AND SINK DISCHARGE

STEP	UPPER AQUIFER		LOWER AQUIFER	
	RECHARGE	PUMPAGE	RECHARGE	PUMPAGE
15	-1.0000	1.0000	-1.0000	1.0000

SOURCE AND SINK DISCHARGE FOR TIME STEPS 16 TO 16

RECHARGE FOR UPPER AQUIFER

TOTAL RECHARGE 2.635E+02

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	2.7400	2	2.7700	3	1.9200	4	0.	5	.3800
6	0.	7	1.1500	8	2.0000	9	2.4600	10	0.
11	5.7700	12	0.	13	.7700	14	1.0800	15	5.4300
16	5.5400	17	4.6200	18	0.	19	0.	20	.7700
21	5.9100	22	10.8000	23	.4300	24	.3100	25	.1500
26	0.	27	0.	28	0.	29	0.	30	.1200
31	4.5800	32	0.	33	2.1000	34	1.1500	35	.2300
36	1.6200	37	1.5400	38	1.0800	39	.7700	40	1.5500
41	2.4500	42	2.1000	43	2.1000	44	.6900	45	.7700
46	.2300	47	.7700	48	1.3200	49	11.4800	50	1.1500
51	.3800	52	0.	53	.3100	54	0.	55	2.0000
56	2.1700	57	4.8100	58	2.3100	59	-2.0000	60	0.
61	0.	62	0.	63	0.	64	0.	65	1.4700
66	0.	67	0.	68	0.	69	0.	70	0.
71	0.	72	0.	73	0.	74	.7700	75	4.2700
76	2.6900	77	-16.5000	78	0.	79	0.	80	0.
81	.3800	82	0.	83	1.0500	84	2.4500	85	0.
86	0.	87	0.	88	0.	89	0.	90	0.
91	1.1500	92	0.	93	1.6200	94	.6200	95	5.3900
96	-2.5000	97	0.	98	0.	99	0.	100	0.
101	.3800	102	0.	103	1.4000	104	3.5000	105	7.0000
106	2.1000	107	0.	108	.7700	109	4.2300	110	.6200
111	0.	112	.6900	113	0.	114	1.9200	115	3.5000
116	.3100	117	.3100	118	.7700	119	.7700	120	3.0800
121	2.9300	122	1.4600	123	10.7300	124	0.	125	3.8500
126	.3100	127	.1500	128	1.9200	129	1.9200	130	1.5400
131	.7700	132	10.5000	133	7.0000	134	.3800	135	0.
136	.3800	137	.3800	138	0.	139	0.	140	0.
141	7.0000	142	2.2300	143	1.1500	144	.9200	145	1.1500
146	0.	147	0.	148	.3800	149	0.	150	.6900
151	1.7700	152	0.	153	.1500	154	0.	155	14.0000
156	9.6900	157	4.0400	158	5.7300	159	5.5800	160	0.
161	4.3100	162	2.3600	163	0.	164	2.3400	165	.2300
166	1.6200	167	3.4600	168	.7700	169	2.1600	170	3.5400
171	.3100	172	0.	173	.3100	174	.3100	175	0.
176	1.0800	177	2.6900	178	1.8500				

PUMPAGE FOR UPPER AQUIFER

TOTAL PUMPAGE 4.625E+01

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	-.0900	2	0.	3	-.2600	4	0.	5	0.
6	0.	7	0.	8	0.	9	0.	10	0.
11	2.4500	12	0.	13	0.	14	-.0100	15	.0200
16	1.0800	17	2.1300	18	0.	19	0.	20	0.
21	.2500	22	0.	23	0.	24	0.	25	1.3300
26	0.	27	.0600	28	0.	29	0.	30	0.
31	0.	32	0.	33	0.	34	-.2500	35	0.
36	.0400	37	.1500	38	0.	39	0.	40	0.
41	.7900	42	0.	43	0.	44	0.	45	-.5900
46	0.	47	0.	48	0.	49	0.	50	1.1200
51	0.	52	.0100	53	0.	54	0.	55	-.2800
56	3.7700	57	.0100	58	.0300	59	0.	60	.3200
61	0.	62	.0400	63	-.5200	64	-.1700	65	-.0900
66	.0700	67	.3100	68	-1.8400	69	-.6700	70	-.1200
71	0.	72	0.	73	-.1600	74	.2800	75	.5100
76	0.	77	.2100	78	.2700	79	.0100	80	1.8700
81	-.1600	82	.8700	83	0.	84	.0400	85	2.9000
86	-.4800	87	-.3100	88	-.6200	89	6.8600	90	4.6300
91	0.	92	0.	93	0.	94	.0300	95	.2000
96	0.	97	-.5000	98	1.0200	99	1.9200	100	-.5100
101	2.1800	102	0.	103	.1400	104	0.	105	0.
106	.3300	107	.7900	108	.3700	109	0.	110	0.
111	.5800	112	-.3400	113	1.5100	114	1.6200	115	.1200
116	-0.	117	0.	118	.5800	119	.1900	120	1.2100
121	2.7500	122	.1700	123	0.	124	0.	125	.2100
126	0.	127	.1100	128	.0700	129	1.0100	130	0.
131	1.7200	132	0.	133	0.	134	0.	135	.2600
136	.3000	137	.2200	138	0.	139	1.1600	140	0.
141	0.	142	.1700	143	0.	144	0.	145	0.
146	0.	147	0.	148	.0300	149	0.	150	0.
151	1.3400	152	.2700	153	0.	154	.5400	155	0.
156	0.	157	0.	158	.0300	159	0.	160	0.
161	.1500	162	0.	163	0.	164	.0500	165	.3300
166	-.1000	167	-.1000	168	0.	169	-.0800	170	0.
171	.0300	172	.0400	173	.0700	174	0.	175	.0400
176	0.	177	.1100	178	.1000				

PUMPAGE FOR LOWER AQUIFER

TOTAL PUMPAGE 1.150E+02

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	.4200	2	0.	3	1.1800	4	0.	5	0.
6	0.	7	0.	8	0.	9	0.	10	0.
11	3.0600	12	0.	13	0.	14	.0600	15	.0400
16	.7100	17	2.7200	18	0.	19	0.	20	0.
21	.5200	22	0.	23	0.	24	0.	25	1.8200
26	0.	27	1.7800	28	0.	29	0.	30	0.
31	0.	32	0.	33	0.	34	1.7500	35	.5200
36	.9300	37	.7300	38	0.	39	0.	40	0.
41	6.7500	42	0.	43	0.	44	0.	45	2.6400
46	0.	47	.5100	48	0.	49	0.	50	2.8100
51	0.	52	.0400	53	0.	54	0.	55	1.8400
56	2.5900	57	0.	58	.0600	59	0.	60	.5700
61	0.	62	.0200	63	2.3100	64	1.1200	65	.7100
66	0.	67	.0400	68	6.1400	69	7.7900	70	.5300
71	0.	72	0.	73	.7500	74	1.7300	75	.5700
76	0.	77	.4900	78	3.3900	79	.0300	80	1.0400
81	.5400	82	2.1700	83	0.	84	.0200	85	.3200
86	5.5200	87	2.4600	88	3.3900	89	1.5900	90	.8800
91	0.	92	0.	93	0.	94	.3800	95	.2700
96	0.	97	1.9900	98	1.3200	99	5.5600	100	2.7600
101	.8200	102	0.	103	1.5900	104	0.	105	0.
106	.5400	107	.6200	108	.5600	109	0.	110	0.
111	1.5900	112	3.2200	113	.4400	114	.7500	115	.0900
116	.0100	117	0.	118	.2800	119	.1000	120	.1100
121	.5700	122	1.9200	123	0.	124	0.	125	.2800
126	0.	127	.4800	128	.5700	129	.7500	130	0.
131	.8800	132	0.	133	0.	134	0.	135	.0600
136	.3700	137	.5300	138	0.	139	1.1800	140	0.
141	0.	142	.0200	143	0.	144	0.	145	0.
146	0.	147	0.	148	.0600	149	0.	150	0.
151	.6000	152	.1500	153	0.	154	.3200	155	0.
156	0.	157	0.	158	0.	159	0.	160	0.
161	.0800	162	0.	163	0.	164	.1200	165	.1200
166	1.4300	167	1.0600	168	0.	169	.4000	170	0.
171	.2200	172	.0900	173	1.0000	174	0.	175	.1000
176	0.	177	.7800	178	.2400				

MULTIPLICATION FACTORS FOR SOURCE AND SINK DISCHARGE

STEP	UPPER AQUIFER		LOWER AQUIFER	
	RECHARGE	PUMPAGE	RECHARGE	PUMPAGE
16	-1.0000	1.0000	-1.0000	1.0000

SOURCE AND SINK DISCHARGE FOR TIME STEPS 17 TO 26

RECHARGE FOR UPPER AQUIFER

TOTAL RECHARGE 2.645E+02

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	2.7400	2	2.7700	3	1.9200	4	0.	5	.3800
6	0.	7	1.1500	8	2.0000	9	2.4600	10	0.
11	5.7700	12	0.	13	.7700	14	1.0800	15	5.4600
16	5.5400	17	4.6200	18	0.	19	0.	20	.7700
21	5.9500	22	10.8700	23	.4300	24	.3100	25	.1500
26	0.	27	0.	28	0.	29	0.	30	.1200
31	4.6100	32	0.	33	2.1100	34	1.1500	35	.2300
36	1.6200	37	1.5400	38	1.0800	39	.7700	40	1.5600
41	2.9700	42	2.1100	43	2.1100	44	.6900	45	.7700
46	.2300	47	.7700	48	1.3200	49	11.5400	50	1.1500
51	.3800	52	0.	53	.3100	54	0.	55	2.0000
56	2.1800	57	4.8300	58	2.3100	59	-2.0000	60	0.
61	0.	62	0.	63	0.	64	0.	65	1.4700
66	0.	67	0.	68	0.	69	0.	70	0.
71	0.	72	0.	73	0.	74	.7700	75	4.2900
76	2.6900	77	-16.5000	78	0.	79	0.	80	0.
81	.3800	82	0.	83	1.0600	84	2.4700	85	0.
86	0.	87	0.	88	0.	89	0.	90	0.
91	1.1500	92	0.	93	1.6200	94	.6200	95	5.3900
96	-2.5000	97	0.	98	0.	99	0.	100	0.
101	.3800	102	0.	103	1.4100	104	3.5200	105	7.0500
106	2.1100	107	0.	108	.7700	109	4.2300	110	.6200
111	0.	112	.6900	113	0.	114	1.9200	115	3.5200
116	.3100	117	.3100	118	.7700	119	.7700	120	3.0800
121	2.9300	122	1.4600	123	10.8000	124	0.	125	3.8500
126	.3100	127	.1500	128	1.9200	129	1.9200	130	1.5400
131	.7700	132	10.5700	133	7.0500	134	.3800	135	0.
136	.3800	137	.3800	138	0.	139	0.	140	0.
141	7.0500	142	2.2300	143	1.1500	144	.9200	145	1.1500
146	0.	147	0.	148	.3800	149	0.	150	.6900
151	1.7700	152	0.	153	.1500	154	0.	155	14.1000
156	9.7400	157	4.0600	158	5.7500	159	5.6000	160	0.
161	4.3100	162	2.3600	163	0.	164	2.3400	165	.2300
166	1.6200	167	3.4600	168	.7700	169	2.1600	170	3.5400
171	.3100	172	0.	173	.3100	174	.3100	175	0.
176	1.0800	177	2.6900	178	1.8500				

PUMPAGE FOR UPPER AQUIFER

TOTAL PUMPAGE 4.825E+01

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	-.0900	2	0.	3	-.2600	4	0.	5	0.
6	0.	7	0.	8	0.	9	0.	10	0.
11	2.4500	12	0.	13	0.	14	-.0100	15	.0200
16	1.0800	17	2.1300	18	0.	19	0.	20	0.
21	.2500	22	0.	23	0.	24	0.	25	1.3300
26	0.	27	.0600	28	0.	29	0.	30	0.
31	0.	32	0.	33	0.	34	-.2500	35	0.
36	.0400	37	.1500	38	0.	39	0.	40	0.
41	.7900	42	0.	43	0.	44	0.	45	-.5900
46	0.	47	0.	48	0.	49	0.	50	1.1200
51	0.	52	.0100	53	0.	54	0.	55	-.2800
56	3.7700	57	.0100	58	.0300	59	0.	60	.3200
61	0.	62	.0400	63	-.5200	64	-.1700	65	-.0900
66	.0700	67	.3100	68	-1.8400	69	-.6700	70	-.1200
71	0.	72	0.	73	-.1600	74	.2800	75	.5100
76	0.	77	.2100	78	.2700	79	.0100	80	1.8700
81	-.1600	82	.8700	83	0.	84	.0400	85	2.9000
86	-.4800	87	-.3100	88	-.6200	89	6.8600	90	4.6300
91	0.	92	0.	93	0.	94	.0300	95	.2000
96	0.	97	-.5000	98	1.0200	99	1.9200	100	-.5100
101	2.1800	102	0.	103	.1400	104	0.	105	0.
106	.3300	107	.7900	108	.3700	109	0.	110	0.
111	.5800	112	-.3400	113	1.5100	114	1.6200	115	.1200
116	-0.	117	0.	118	.5800	119	.1900	120	1.2100
121	2.7500	122	.1700	123	0.	124	0.	125	.2100
126	0.	127	.1100	128	.0700	129	1.0100	130	0.
131	1.7200	132	0.	133	0.	134	0.	135	.2600
136	.3000	137	.2200	138	0.	139	1.1600	140	0.
141	0.	142	.1700	143	0.	144	0.	145	0.
146	0.	147	0.	148	.0300	149	0.	150	0.
151	1.3400	152	.2700	153	0.	154	.5400	155	0.
156	0.	157	0.	158	.0300	159	0.	160	0.
161	.1500	162	0.	163	0.	164	.0500	165	.3300
166	-.1000	167	-.1000	168	0.	169	-.0800	170	0.
171	.0300	172	.0400	173	.0700	174	0.	175	.0400
176	0.	177	.1100	178	.1000				

PUMPAGE FOR LOWER AQUIFER

TOTAL PUMPAGE 1.150E+02

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	.4200	2	0.	3	1.1800	4	0.	5	0.
6	0.	7	0.	8	0.	9	0.	10	0.
11	3.0600	12	0.	13	0.	14	.0600	15	.0400
16	.7100	17	2.7200	18	0.	19	0.	20	0.
21	.5200	22	0.	23	0.	24	0.	25	1.8200
26	0.	27	1.7800	28	0.	29	0.	30	0.
31	0.	32	0.	33	0.	34	1.7500	35	.5200
36	.9300	37	.7300	38	0.	39	0.	40	0.
41	6.7500	42	0.	43	0.	44	0.	45	2.6400
46	0.	47	.5100	48	0.	49	0.	50	2.8100
51	0.	52	.0400	53	0.	54	0.	55	1.8400
56	2.5900	57	0.	58	.0600	59	0.	60	.5700
61	0.	62	.0200	63	2.3100	64	1.1200	65	.7100
66	0.	67	.0400	68	6.1400	69	7.7900	70	.5300
71	0.	72	0.	73	.7500	74	1.7300	75	.5700
76	0.	77	.4900	78	3.3900	79	.0300	80	1.0400
81	.5400	82	2.1700	83	0.	84	.0200	85	.3200
86	5.5200	87	2.4600	88	3.3900	89	1.5900	90	.8800
91	0.	92	0.	93	0.	94	.3800	95	.2700
96	0.	97	1.9900	98	1.3200	99	5.5600	100	2.7600
101	.8200	102	0.	103	1.5900	104	0.	105	0.
106	.5400	107	.6200	108	.5600	109	0.	110	0.
111	1.5900	112	3.2200	113	.4400	114	.7500	115	.0900
116	.0100	117	0.	118	.2800	119	.1000	120	.1100
121	.5700	122	1.9200	123	0.	124	0.	125	.2800
126	0.	127	.4800	128	.5700	129	.7500	130	0.
131	.8800	132	0.	133	0.	134	0.	135	.0600
136	.3700	137	.5300	138	0.	139	1.1800	140	0.
141	0.	142	.0200	143	0.	144	0.	145	0.
146	0.	147	0.	148	.0600	149	0.	150	0.
151	.6000	152	.1500	153	0.	154	.3200	155	0.
156	0.	157	0.	158	0.	159	0.	160	0.
161	.0800	162	0.	163	0.	164	.1200	165	.1200
166	1.4300	167	1.0600	168	0.	169	.4000	170	0.
171	.2200	172	.0900	173	1.0000	174	0.	175	.1000
176	0.	177	.7800	178	.2400				

MULTIPLICATION FACTORS FOR SOURCE AND SINK DISCHARGE

STEP	UPPER AQUIFER		LOWER AQUIFER	
	RECHARGE	PUMPAGE	RECHARGE	PUMPAGE
17	-1.0000	1.0000	-1.0000	1.0000
18	-1.0000	1.0000	-1.0000	1.0000
19	-1.0000	1.0000	-1.0000	1.0000
20	-1.0000	1.0000	-1.0000	1.0000
21	-1.0000	1.0000	-1.0000	1.0000
22	-1.0000	1.0000	-1.0000	1.0000
23	-1.0000	1.0000	-1.0000	1.0000
24	-1.0000	1.0000	-1.0000	1.0000
25	-1.0000	1.0000	-1.0000	1.0000
26	-1.0000	1.0000	-1.0000	1.0000

TIME STEP 1

ELAPSED TIME .365E+03 DAYS
.876E+04 HOURS
.526E+06 MINUTES
.315E+08 SECONDS

COMPUTED WATER LEVELS

ITERATIONS 18
ERROR .0990

UPPER AQUIFER

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	1929.6	2	1857.4	3	1784.5	4	1605.4	5	1522.9
6	1429.4	7	1510.8	8	1636.0	9	1749.1	10	1688.1
11	1402.4	12	1389.3	13	1449.0	14	1535.8	15	1572.5
16	1330.2	17	1329.7	18	1308.3	19	1295.6	20	1389.1
21	1526.6	22	1535.0	23	1489.7	24	1205.8	25	1211.5
26	1160.3	27	1110.6	28	1192.7	29	1256.8	30	1294.5
31	1319.9	32	1374.5	33	1392.3	34	1064.3	35	1060.9
36	1050.8	37	1045.3	38	1034.8	39	1060.7	40	1258.9
41	1253.1	42	1302.3	43	1288.9	44	1264.0	45	1047.3
46	1065.8	47	1091.5	48	1182.5	49	1143.0	50	1003.8
51	1003.8	52	1006.4	53	1006.9	54	1009.6	55	1025.0
56	1046.0	57	1062.2	58	1097.9	59	973.9	60	979.7
61	984.9	62	986.7	63	998.2	64	1012.1	65	1025.6
66	970.7	67	974.9	68	995.8	69	1001.4	70	1014.8
71	1025.7	72	1028.7	73	1037.7	74	1042.5	75	1047.3
76	1093.3	77	882.4	78	950.7	79	983.4	80	995.1
81	1012.9	82	1037.0	83	1040.3	84	1042.8	85	931.9
86	947.2	87	951.8	88	961.1	89	971.6	90	990.4
91	1011.7	92	1026.8	93	1100.8	94	1088.5	95	1166.6
96	931.4	97	964.3	98	966.6	99	970.3	100	1012.1
101	1042.2	102	1057.8	103	1069.6	104	1088.4	105	1090.4
106	1095.8	107	1208.8	108	1215.7	109	1239.3	110	997.6
111	994.7	112	1048.9	113	1064.9	114	1097.9	115	1109.9
116	1022.8	117	1024.0	118	1033.4	119	1071.3	120	1094.9
121	1119.3	122	1167.6	123	1224.3	124	1261.9	125	1337.1
126	1068.1	127	1077.6	128	1098.3	129	1125.4	130	1154.2
131	1217.6	132	1367.9	133	1460.3	134	1096.1	135	1112.5
136	1129.4	137	1156.2	138	1188.9	139	1254.2	140	1395.5
141	1499.1	142	1553.5	143	1172.1	144	1201.1	145	1225.7
146	1273.7	147	1322.2	148	1398.4	149	1346.6	150	1367.1

151	1424.0	152	1339.8	153	1384.8	154	1447.5	155	1534.7
156	1674.8	157	1731.0	158	1792.8	159	1900.5	160	1366.8
161	1521.3	162	1563.0	163	1480.8	164	1600.7	165	1576.5
166	1549.4	167	1672.0	168	1728.2	169	1770.6	170	1943.0
171	1909.9	172	2022.6	173	2018.9	174	2301.8	175	2349.5
176	2418.9	177	2420.4	178	2600.2				

LOWER AQUIFER

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	1928.0	2	1856.8	3	1782.6	4	1605.9	5	1523.1
6	1429.7	7	1509.9	8	1635.9	9	1749.0	10	1688.2
11	1401.7	12	1389.4	13	1448.9	14	1535.7	15	1572.4
16	1328.5	17	1329.3	18	1308.3	19	1295.8	20	1389.0
21	1526.5	22	1533.9	23	1489.9	24	1208.2	25	1212.3
26	1161.1	27	1110.6	28	1193.2	29	1256.9	30	1294.4
31	1319.9	32	1374.9	33	1391.5	34	1045.9	35	1045.7
36	1036.9	37	1031.7	38	1028.7	39	1060.6	40	1258.8
41	1251.4	42	1302.1	43	1289.0	44	1264.2	45	1047.6
46	1062.1	47	1093.1	48	1182.5	49	1141.3	50	980.6
51	996.6	52	1001.3	53	1003.0	54	1005.5	55	1019.2
56	1044.4	57	1063.4	58	1097.2	59	979.7	60	984.2
61	988.5	62	990.5	63	992.6	64	1003.6	65	1020.7
66	977.9	67	982.8	68	986.8	69	990.7	70	1006.9
71	1019.7	72	1029.9	73	1036.2	74	1042.7	75	1047.8
76	1092.7	77	936.3	78	952.6	79	985.1	80	992.8
81	1005.5	82	1030.5	83	1040.9	84	1042.0	85	950.8
86	956.9	87	965.6	88	970.4	89	985.1	90	997.4
91	1010.5	92	1025.7	93	1101.6	94	1088.8	95	1165.6
96	953.6	97	970.3	98	974.7	99	976.6	100	1004.6
101	1031.7	102	1052.3	103	1067.0	104	1086.9	105	1090.5
106	1095.0	107	1208.7	108	1215.9	109	1238.7	110	987.5
111	991.2	112	1028.4	113	1055.7	114	1093.4	115	1110.0
116	1012.8	117	1014.0	118	1020.5	119	1058.2	120	1085.2
121	1115.6	122	1167.6	123	1224.0	124	1262.2	125	1336.9
126	1067.5	127	1075.8	128	1094.2	129	1118.8	130	1153.2
131	1217.6	132	1367.0	133	1459.9	134	1096.0	135	1113.2
136	1129.9	137	1157.1	138	1189.6	139	1255.5	140	1397.0
141	1498.3	142	1553.9	143	1171.6	144	1200.5	145	1225.0
146	1273.0	147	1321.4	148	1396.8	149	1346.8	150	1367.3
151	1424.3	152	1340.1	153	1385.1	154	1448.0	155	1532.4
156	1675.1	157	1729.4	158	1792.7	159	1899.4	160	1366.8
161	1520.3	162	1562.7	163	1480.7	164	1600.4	165	1577.2
166	1548.7	167	1670.0	168	1727.8	169	1770.4	170	1941.5
171	1909.9	172	2022.9	173	2019.0	174	2301.5	175	2349.5
176	2418.9	177	2420.3	178	2598.3				

TIME STEP 2

ELAPSED TIME .730E+03 DAYS
.175E+05 HOURS
.105E+07 MINUTES
.631E+08 SECONDS

COMPUTED WATER LEVELS

ITERATIONS 1
ERROR .092

UPPER AQUIFER

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	1901.6	2	1826.4	3	1768.0	4	1603.4	5	1526.3
6	1434.7	7	1513.8	8	1616.2	9	1738.0	10	1687.9
11	1409.5	12	1394.0	13	1441.0	14	1519.6	15	1599.2
16	1337.3	17	1336.2	18	1315.7	19	1309.6	20	1390.3
21	1568.6	22	1566.1	23	1498.6	24	1216.4	25	1222.1
26	1174.5	27	1136.2	28	1214.3	29	1271.4	30	1300.8
31	1324.3	32	1379.3	33	1399.1	34	1078.1	35	1075.0
36	1066.6	37	1062.1	38	1052.1	39	1079.8	40	1261.1
41	1254.8	42	1304.6	43	1290.4	44	1262.1	45	1060.4
46	1074.6	47	1096.6	48	1182.9	49	1136.8	50	1014.7
51	1016.5	52	1020.2	53	1020.9	54	1024.2	55	1039.5
56	1054.7	57	1068.1	58	1086.8	59	986.1	60	992.2
61	997.9	62	999.8	63	1011.9	64	1026.2	65	1038.8
66	983.2	67	987.6	68	1009.3	69	1015.3	70	1029.1
71	1038.4	72	1040.6	73	1046.8	74	1049.8	75	1061.4
76	1091.1	77	893.7	78	962.8	79	996.2	80	1008.8
81	1028.3	82	1053.6	83	1056.6	84	1057.6	85	943.2
86	958.5	87	963.2	88	972.5	89	983.0	90	1003.5
91	1026.8	92	1044.1	93	1121.4	94	1102.8	95	1179.6
96	940.3	97	973.2	98	975.5	99	980.2	100	1021.1
101	1051.7	102	1070.6	103	1088.1	104	1108.3	105	1110.6
106	1116.3	107	1216.6	108	1222.9	109	1241.9	110	1005.6
111	1002.1	112	1053.8	113	1070.5	114	1105.1	115	1122.9
116	1031.0	117	1032.1	118	1038.5	119	1073.7	120	1096.5
121	1122.9	122	1174.1	123	1231.6	124	1268.7	125	1351.3
126	1075.5	127	1081.8	128	1099.4	129	1125.4	130	1156.1
131	1220.7	132	1376.9	133	1473.8	134	1103.1	135	1114.2
136	1127.1	137	1152.5	138	1187.5	139	1253.8	140	1403.1
141	1515.7	142	1556.3	143	1169.0	144	1195.2	145	1221.9
146	1269.2	147	1321.3	148	1403.0	149	1343.7	150	1365.3
151	1427.2	152	1333.5	153	1381.2	154	1451.6	155	1553.7

156	1696.5	157	1752.9	158	1822.8	159	1946.6	160	1359.0
161	1521.9	162	1564.4	163	1479.2	164	1606.9	165	1583.9
166	1552.5	167	1689.6	168	1731.1	169	1741.9	170	1919.5
171	1903.3	172	2014.9	173	2014.5	174	2289.7	175	2338.9
176	2409.3	177	2416.1	178	2597.2				

LOWER AQUIFER

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	1900.0	2	1825.9	3	1766.1	4	1603.9	5	1526.3
6	1435.0	7	1512.9	8	1616.2	9	1737.9	10	1687.9
11	1408.9	12	1394.2	13	1440.9	14	1519.5	15	1599.2
16	1335.5	17	1335.9	18	1315.7	19	1309.7	20	1390.2
21	1568.6	22	1564.8	23	1499.0	24	1218.8	25	1222.9
26	1175.3	27	1135.9	28	1214.7	29	1271.5	30	1300.9
31	1324.3	32	1379.8	33	1398.0	34	1059.9	35	1060.0
36	1052.4	37	1047.6	38	1044.5	39	1079.5	40	1260.9
41	1253.2	42	1304.3	43	1290.4	44	1262.4	45	1060.3
46	1071.5	47	1098.0	48	1182.9	49	1135.4	50	993.6
51	1010.1	52	1015.0	53	1016.9	54	1019.3	55	1032.5
56	1053.3	57	1069.0	58	1086.5	59	992.5	60	997.2
61	1001.6	62	1003.7	63	1005.8	64	1016.7	65	1032.6
66	990.6	67	995.5	68	999.7	69	1003.7	70	1019.9
71	1032.2	72	1041.4	73	1045.8	74	1049.8	75	1061.7
76	1090.6	77	947.8	78	964.8	79	997.4	80	1005.5
81	1018.9	82	1046.1	83	1057.0	84	1057.0	85	962.5
86	968.6	87	977.3	88	982.1	89	996.7	90	1009.5
91	1023.1	92	1039.7	93	1122.0	94	1103.0	95	1178.6
96	963.5	97	980.5	98	985.0	99	987.5	100	1015.2
101	1042.2	102	1064.2	103	1083.4	104	1105.9	105	1110.4
106	1115.3	107	1216.7	108	1223.1	109	1241.4	110	996.5
111	1001.0	112	1036.8	113	1063.7	114	1102.0	115	1122.9
116	1021.1	117	1022.3	118	1028.3	119	1063.5	120	1089.6
121	1120.7	122	1174.1	123	1231.3	124	1269.1	125	1351.0
126	1074.6	127	1080.1	128	1095.7	129	1119.6	130	1155.1
131	1220.7	132	1376.0	133	1473.4	134	1103.0	135	1114.9
136	1127.7	137	1153.4	138	1188.1	139	1255.0	140	1404.5
141	1514.8	142	1556.8	143	1168.6	144	1194.6	145	1221.3
146	1268.7	147	1320.6	148	1401.4	149	1343.7	150	1365.4
151	1427.6	152	1333.8	153	1381.5	154	1452.1	155	1551.2
156	1696.6	157	1751.1	158	1822.7	159	1945.4	160	1359.2
161	1520.9	162	1564.2	163	1479.2	164	1606.6	165	1584.5
166	1551.7	167	1687.5	168	1731.3	169	1741.7	170	1918.0
171	1903.3	172	2015.2	173	2014.7	174	2289.4	175	2338.9
176	2409.3	177	2415.9	178	2595.2				

TIME STEP 3

ELAPSED TIME .110E+04 DAYS
.263E+05 HOURS
.158E+07 MINUTES
.946E+08 SECONDS

EVAPOTRANSPIRATION DISCHARGE

TOTAL DISCHARGE 1.959E+00

ELE	VALUE	ELE	VALUE	ELE	VALUE	ELE	VALUE	ELE	VALUE
67	.910	68	.420	78	.629				

COMPUTED WATER LEVELS

ITERATIONS 1
ERROR .0944

UPPER AQUIFER

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	1876.2	2	1805.2	3	1753.9	4	1600.3	5	1526.9
6	1439.2	7	1516.2	8	1601.6	9	1727.7	10	1687.7
11	1413.7	12	1398.8	13	1436.7	14	1509.5	15	1617.6
16	1343.1	17	1341.4	18	1321.4	19	1316.1	20	1390.1
21	1598.5	22	1593.1	23	1515.8	24	1224.9	25	1230.4
26	1184.6	27	1149.1	28	1225.4	29	1280.1	30	1308.4
31	1333.8	32	1391.0	33	1408.6	34	1089.4	35	1086.3
36	1078.1	37	1073.6	38	1063.4	39	1091.5	40	1267.4
41	1261.0	42	1311.8	43	1295.8	44	1262.5	45	1070.0
46	1082.5	47	1103.1	48	1187.0	49	1140.8	50	1024.9
51	1026.0	52	1029.6	53	1030.3	54	1033.8	55	1049.4
56	1062.4	57	1075.1	58	1090.3	59	993.5	60	999.7
61	1005.4	62	1007.3	63	1020.2	64	1035.5	65	1048.0
66	989.5	67	993.8	68	1017.2	69	1024.0	70	1038.6
71	1047.6	72	1049.7	73	1055.2	74	1057.7	75	1072.1
76	1097.9	77	900.2	78	968.6	79	1004.0	80	1017.4
81	1038.0	82	1064.6	83	1067.6	84	1068.5	85	950.0
86	965.4	87	970.2	88	979.8	89	990.8	90	1012.1
91	1036.3	92	1054.5	93	1134.0	94	1114.2	95	1191.7
96	947.6	97	980.6	98	982.9	99	987.7	100	1028.9
101	1059.8	102	1079.6	103	1099.2	104	1120.2	105	1122.7
106	1128.7	107	1225.3	108	1231.3	109	1249.9	110	1013.1
111	1009.3	112	1060.6	113	1077.4	114	1112.7	115	1132.3
116	1038.0	117	1039.0	118	1044.8	119	1079.1	120	1101.7

121	1128.9	122	1181.2	123	1239.8	124	1277.4	125	1362.6
126	1080.2	127	1085.7	128	1102.9	129	1128.4	130	1159.5
131	1225.3	132	1386.4	133	1486.5	134	1106.3	135	1115.8
136	1128.2	137	1152.9	138	1188.2	139	1256.3	140	1411.6
141	1529.3	142	1567.4	143	1168.5	144	1192.9	145	1221.0
146	1269.6	147	1323.9	148	1409.6	149	1339.9	150	1361.7
151	1429.1	152	1332.5	153	1382.4	154	1457.9	155	1567.9
156	1709.1	157	1769.7	158	1845.8	159	1986.1	160	1355.1
161	1524.0	162	1567.3	163	1480.3	164	1613.4	165	1590.2
166	1551.3	167	1699.2	168	1724.9	169	1724.1	170	1910.3
171	1891.1	172	2008.5	173	2013.0	174	2281.3	175	2330.8
176	2402.4	177	2410.8	178	2592.7				

LOWER AQUIFER

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	1874.6	2	1804.7	3	1752.0	4	1600.8	5	1526.9
6	1439.6	7	1515.3	8	1601.6	9	1727.6	10	1687.9
11	1413.1	12	1399.0	13	1436.6	14	1509.5	15	1617.6
16	1341.4	17	1341.1	18	1321.4	19	1316.1	20	1390.0
21	1598.2	22	1591.6	23	1516.2	24	1227.2	25	1231.2
26	1185.4	27	1148.8	28	1225.8	29	1280.1	30	1308.5
31	1333.8	32	1391.6	33	1407.5	34	1071.0	35	1071.0
36	1063.2	37	1058.3	38	1054.9	39	1091.2	40	1267.3
41	1259.4	42	1311.4	43	1295.8	44	1262.9	45	1069.7
46	1079.6	47	1104.4	48	1187.1	49	1139.4	50	1003.4
51	1019.5	52	1024.5	53	1026.3	54	1028.8	55	1041.9
56	1061.1	57	1075.9	58	1090.1	59	1001.1	60	1006.0
61	1010.5	62	1012.6	63	1014.8	64	1025.8	65	1041.4
66	999.1	67	1004.2	68	1008.6	69	1012.6	70	1029.0
71	1041.3	72	1050.4	73	1054.3	74	1057.7	75	1072.4
76	1097.4	77	955.5	78	973.0	79	1006.0	80	1014.3
81	1028.1	82	1056.5	83	1067.9	84	1067.8	85	970.4
86	976.7	87	985.5	88	990.4	89	1005.0	90	1018.1
91	1031.9	92	1049.1	93	1134.6	94	1114.4	95	1190.8
96	971.0	97	988.3	98	992.9	99	995.5	100	1023.2
101	1050.3	102	1072.9	103	1093.9	104	1117.6	105	1122.5
106	1127.6	107	1225.5	108	1231.6	109	1249.4	110	1003.8
111	1008.6	112	1044.1	113	1071.0	114	1109.8	115	1132.2
116	1028.0	117	1029.2	118	1035.2	119	1069.5	120	1095.3
121	1126.8	122	1181.2	123	1239.5	124	1277.9	125	1362.3
126	1079.3	127	1084.0	128	1099.4	129	1123.1	130	1158.6
131	1225.3	132	1385.5	133	1486.1	134	1106.2	135	1116.4
136	1128.7	137	1153.8	138	1188.8	139	1257.5	140	1412.9
141	1528.4	142	1567.9	143	1168.1	144	1192.4	145	1220.4
146	1269.1	147	1323.1	148	1408.0	149	1340.0	150	1361.9
151	1429.4	152	1332.8	153	1382.7	154	1458.4	155	1565.4
156	1709.3	157	1767.9	158	1845.7	159	1984.8	160	1355.3
161	1522.9	162	1567.0	163	1480.3	164	1613.1	165	1590.9
166	1550.5	167	1697.0	168	1725.2	169	1723.9	170	1908.8
171	1891.2	172	2008.8	173	2013.2	174	2281.0	175	2330.7
176	2402.4	177	2410.6	178	2590.7				

TIME STEP 4

ELAPSED TIME .146E+04 DAYS
.350E+05 HOURS
.210E+07 MINUTES
.126E+09 SECONDS

EVAPOTRANSPIRATION DISCHARGE

TOTAL DISCHARGE 5.124E+00

ELE	VALUE	ELE	VALUE	ELE	VALUE	ELE	VALUE	ELE	VALUE
21	.770	67	1.785	68	1.331	78	1.238		

COMPUTED WATER LEVELS

ITERATIONS 1
ERROR .0946

UPPER AQUIFER

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	1856.4	2	1787.4	3	1739.4	4	1593.7	5	1524.8
6	1441.8	7	1517.5	8	1588.9	9	1712.6	10	1689.3
11	1418.4	12	1403.1	13	1434.6	14	1504.5	15	1642.9
16	1350.1	17	1348.2	18	1328.6	19	1321.0	20	1391.1
21	1610.1	22	1612.6	23	1531.2	24	1233.2	25	1238.7
26	1193.2	27	1157.9	28	1233.1	29	1287.4	30	1315.9
31	1342.9	32	1402.1	33	1418.8	34	1097.9	35	1094.8
36	1086.4	37	1081.8	38	1071.4	39	1099.8	40	1275.3
41	1268.9	42	1320.4	43	1303.2	44	1265.8	45	1077.8
46	1089.9	47	1110.3	48	1193.5	49	1148.3	50	1032.4
51	1032.8	52	1036.2	53	1036.8	54	1040.5	55	1056.8
56	1069.8	57	1082.4	58	1096.7	59	998.3	60	1004.6
61	1010.2	62	1012.1	63	1025.5	64	1042.3	65	1055.3
66	993.2	67	997.5	68	1021.9	69	1029.9	70	1045.7
71	1055.1	72	1057.2	73	1062.6	74	1065.1	75	1080.9
76	1105.6	77	904.6	78	972.0	79	1009.2	80	1023.4
81	1045.2	82	1073.1	83	1076.2	84	1077.1	85	954.6
86	970.3	87	975.1	88	984.9	89	996.7	90	1018.4
91	1043.4	92	1062.4	93	1144.1	94	1124.2	95	1203.3
96	953.2	97	986.4	98	988.8	99	993.4	100	1035.3
101	1066.8	102	1087.2	103	1108.1	104	1129.8	105	1132.4
106	1138.6	107	1234.5	108	1240.7	109	1260.0	110	1019.4
111	1015.4	112	1066.9	113	1084.0	114	1119.9	115	1140.5
116	1044.2	117	1045.1	118	1050.7	119	1084.8	120	1107.5

121	1135.2	122	1188.5	123	1248.3	124	1286.7	125	1372.8
126	1084.7	127	1089.9	128	1107.3	129	1132.8	130	1164.3
131	1230.7	132	1395.5	133	1497.9	134	1109.7	135	1118.5
136	1131.1	137	1155.8	138	1191.3	139	1260.1	140	1419.5
141	1541.2	142	1579.8	143	1169.5	144	1193.4	145	1222.4
146	1271.4	147	1327.2	148	1415.5	149	1337.5	150	1359.6
151	1430.1	152	1332.6	153	1384.1	154	1462.7	155	1580.0
156	1718.8	157	1784.3	158	1865.3	159	2020.0	160	1352.6
161	1524.1	162	1569.5	163	1481.7	164	1619.1	165	1594.6
166	1550.2	167	1705.7	168	1720.6	169	1714.5	170	1908.1
171	1881.4	172	2005.1	173	2013.6	174	2272.9	175	2322.9
176	2395.6	177	2404.6	178	2587.8				

LOWER AQUIFER

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	1854.8	2	1786.9	3	1737.5	4	1594.2	5	1524.8
6	1442.1	7	1516.6	8	1588.9	9	1712.4	10	1689.4
11	1417.6	12	1403.2	13	1434.5	14	1504.5	15	1642.9
16	1348.4	17	1347.9	18	1328.6	19	1321.0	20	1391.0
21	1610.0	22	1611.2	23	1531.7	24	1235.5	25	1239.5
26	1194.0	27	1157.6	28	1233.5	29	1287.4	30	1316.0
31	1342.9	32	1402.7	33	1417.7	34	1079.3	35	1079.3
36	1071.1	37	1066.0	38	1062.5	39	1099.4	40	1275.2
41	1267.3	42	1320.1	43	1303.2	44	1266.2	45	1077.4
46	1087.1	47	1111.6	48	1193.7	49	1146.9	50	1010.6
51	1026.4	52	1031.4	53	1033.3	54	1035.8	55	1049.3
56	1068.4	57	1083.2	58	1096.5	59	1007.3	60	1012.4
61	1017.0	62	1019.3	63	1021.6	64	1032.8	65	1048.7
66	1005.5	67	1010.7	68	1015.4	69	1019.5	70	1036.1
71	1048.7	72	1057.9	73	1061.8	74	1065.0	75	1081.1
76	1105.2	77	961.2	78	979.0	79	1012.6	80	1021.1
81	1035.3	82	1064.7	83	1076.5	84	1076.4	85	976.5
86	983.0	87	991.9	88	996.8	89	1011.5	90	1024.9
91	1039.0	92	1056.7	93	1144.7	94	1124.3	95	1202.4
96	976.8	97	994.6	98	999.2	99	1001.9	100	1029.8
101	1057.2	102	1080.3	103	1102.5	104	1126.9	105	1132.1
106	1137.4	107	1234.7	108	1241.0	109	1259.6	110	1009.9
111	1014.9	112	1050.5	113	1077.5	114	1116.9	115	1140.5
116	1034.0	117	1035.2	118	1041.2	119	1075.2	120	1101.2
121	1133.1	122	1188.5	123	1248.0	124	1287.2	125	1372.4
126	1083.8	127	1088.3	128	1103.9	129	1127.8	130	1163.4
131	1230.7	132	1394.6	133	1497.4	134	1109.6	135	1119.1
136	1131.6	137	1156.6	138	1191.9	139	1261.3	140	1420.7
141	1540.2	142	1580.3	143	1169.1	144	1192.9	145	1221.8
146	1270.9	147	1326.5	148	1414.0	149	1337.5	150	1359.7
151	1430.4	152	1332.9	153	1384.5	154	1463.2	155	1577.4
156	1719.0	157	1782.3	158	1865.2	159	2018.7	160	1352.8
161	1523.0	162	1569.2	163	1481.6	164	1618.8	165	1595.3
166	1549.4	167	1703.5	168	1721.0	169	1714.3	170	1906.7
171	1881.4	172	2005.4	173	2013.9	174	2272.7	175	2322.9
176	2395.6	177	2404.5	178	2585.9				

TIME STEP 5

ELAPSED TIME .183E+04 DAYS
.438E+05 HOURS
.263E+07 MINUTES
.158E+09 SECONDS

EVAPOTRANSPIRATION DISCHARGE

TOTAL DISCHARGE 8.382E+00

ELE	VALUE	ELE	VALUE	ELE	VALUE	ELE	VALUE	ELE	VALUE
21	1.480	66	.084	67	2.445	68	1.989	69	.671
78	1.714								

COMPUTED WATER LEVELS

ITERATIONS 1
ERROR .0925

UPPER AQUIFER

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	1839.2	2	1773.7	3	1726.5	4	1588.9	5	1523.2
6	1443.8	7	1518.6	8	1581.0	9	1700.5	10	1686.7
11	1420.1	12	1405.8	13	1432.9	14	1499.2	15	1661.4
16	1353.9	17	1351.8	18	1332.5	19	1323.8	20	1391.1
21	1614.8	22	1630.4	23	1549.8	24	1238.7	25	1244.2
26	1199.3	27	1164.2	28	1238.5	29	1292.5	30	1322.5
31	1352.8	32	1415.1	33	1432.8	34	1104.5	35	1101.3
36	1092.7	37	1088.0	38	1077.5	39	1106.2	40	1284.7
41	1278.4	42	1331.0	43	1313.1	44	1271.8	45	1084.3
46	1096.6	47	1117.2	48	1200.7	49	1156.3	50	1038.1
51	1037.9	52	1041.2	53	1041.8	54	1045.6	55	1062.9
56	1076.8	57	1089.6	58	1104.3	59	1002.0	60	1008.3
61	1013.8	62	1015.8	63	1029.5	64	1047.6	65	1061.5
66	996.0	67	1000.3	68	1025.4	69	1033.7	70	1051.3
71	1061.8	72	1064.0	73	1069.7	74	1072.3	75	1088.9
76	1113.9	77	908.2	78	974.7	79	1013.2	80	1027.7
81	1050.9	82	1080.6	83	1083.8	84	1084.9	85	958.4
86	974.2	87	979.1	88	989.2	89	1001.4	90	1023.6
91	1049.4	92	1069.1	93	1153.0	94	1132.9	95	1212.8
96	957.8	97	991.3	98	993.7	99	998.3	100	1040.9
101	1073.0	102	1093.9	103	1115.9	104	1138.3	105	1140.9
106	1147.4	107	1243.2	108	1249.4	109	1269.4	110	1024.9
111	1020.7	112	1072.8	113	1090.2	114	1126.7	115	1148.2

116	1049.8	117	1050.7	118	1056.2	119	1090.3	120	1113.2
121	1141.5	122	1195.8	123	1256.8	124	1295.7	125	1383.3
126	1089.3	127	1094.5	128	1112.2	129	1137.8	130	1169.6
131	1236.8	132	1405.2	133	1509.9	134	1113.6	135	1122.3
136	1135.0	137	1159.7	138	1195.4	139	1265.1	140	1428.2
141	1553.6	142	1592.9	143	1172.2	144	1195.5	145	1225.3
146	1275.1	147	1332.0	148	1422.5	149	1335.7	150	1357.8
151	1432.0	152	1335.1	153	1387.3	154	1468.9	155	1592.5
156	1728.0	157	1797.2	158	1881.9	159	2049.2	160	1350.8
161	1525.2	162	1572.3	163	1483.9	164	1623.8	165	1597.5
166	1549.4	167	1709.1	168	1716.9	169	1707.4	170	1908.1
171	1870.5	172	2002.4	173	2014.6	174	2267.0	175	2316.8
176	2389.6	177	2399.0	178	2582.4				

LOWER AQUIFER

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	1837.6	2	1773.2	3	1724.5	4	1589.4	5	1523.2
6	1444.1	7	1517.8	8	1580.9	9	1700.5	10	1686.9
11	1419.3	12	1405.9	13	1432.8	14	1499.3	15	1661.3
16	1352.2	17	1351.5	18	1332.5	19	1323.8	20	1391.0
21	1614.8	22	1628.7	23	1550.2	24	1241.0	25	1244.9
26	1200.1	27	1163.8	28	1238.9	29	1292.5	30	1322.5
31	1352.7	32	1415.7	33	1431.6	34	1085.7	35	1085.6
36	1077.2	37	1072.0	38	1068.6	39	1105.8	40	1284.6
41	1276.8	42	1330.7	43	1313.1	44	1272.2	45	1083.9
46	1093.9	47	1118.5	48	1200.8	49	1154.9	50	1016.2
51	1031.9	52	1037.0	53	1038.9	54	1041.5	55	1055.3
56	1075.4	57	1090.5	58	1104.1	59	1012.3	60	1017.5
61	1022.4	62	1024.7	63	1027.2	64	1038.7	65	1055.0
66	1010.8	67	1016.1	68	1021.0	69	1025.3	70	1042.1
71	1055.2	72	1064.8	73	1068.9	74	1072.2	75	1089.2
76	1113.5	77	966.0	78	983.9	79	1018.2	80	1026.9
81	1041.4	82	1071.9	83	1084.2	84	1084.2	85	981.6
86	988.2	87	997.3	88	1002.2	89	1017.1	90	1030.7
91	1045.0	92	1063.2	93	1153.6	94	1133.1	95	1211.8
96	981.7	97	1000.0	98	1004.6	99	1007.4	100	1035.6
101	1063.3	102	1086.9	103	1110.0	104	1135.3	105	1140.7
106	1146.2	107	1243.3	108	1249.7	109	1268.9	110	1015.2
111	1020.4	112	1056.3	113	1083.6	114	1123.7	115	1148.1
116	1039.4	117	1040.6	118	1046.7	119	1080.8	120	1107.0
121	1139.3	122	1195.7	123	1256.5	124	1296.2	125	1383.0
126	1088.4	127	1092.9	128	1108.8	129	1132.8	130	1168.8
131	1236.9	132	1404.3	133	1509.4	134	1113.4	135	1122.8
136	1135.5	137	1160.5	138	1195.9	139	1266.2	140	1429.3
141	1552.5	142	1593.5	143	1171.8	144	1195.0	145	1224.8
146	1274.6	147	1331.3	148	1421.1	149	1335.8	150	1357.9
151	1432.3	152	1335.4	153	1387.7	154	1469.5	155	1589.8
156	1728.1	157	1795.2	158	1881.9	159	2047.9	160	1351.0
161	1524.2	162	1572.1	163	1483.9	164	1623.5	165	1598.1
166	1548.5	167	1706.9	168	1717.3	169	1707.2	170	1906.7
171	1870.5	172	2002.7	173	2014.9	174	2266.7	175	2316.7
176	2389.6	177	2398.9	178	2580.5				

TIME STEP 6

ELAPSED TIME .219E+04 DAYS
.526E+05 HOURS
.315E+07 MINUTES
.189E+09 SECONDS

EVAPOTRANSPIRATION DISCHARGE

TOTAL DISCHARGE 1.125E+01

ELE	VALUE	ELE	VALUE	ELE	VALUE	ELE	VALUE	ELE	VALUE
21	2.036	66	.270	67	2.990	68	2.559	69	1.281
78	2.115								

COMPUTED WATER LEVELS

ITERATIONS 1
ERROR .0937

UPPER AQUIFER

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	1825.3	2	1762.0	3	1714.8	4	1583.9	5	1521.0
6	1444.8	7	1519.3	8	1574.1	9	1688.8	10	1684.1
11	1421.5	12	1407.6	13	1431.6	14	1495.5	15	1678.5
16	1357.1	17	1354.8	18	1335.9	19	1326.3	20	1391.4
21	1618.5	22	1646.5	23	1567.0	24	1243.1	25	1248.5
26	1204.1	27	1169.3	28	1243.0	29	1297.3	30	1328.9
31	1362.3	32	1427.5	33	1446.7	34	1109.6	35	1106.4
36	1097.8	37	1093.0	38	1082.7	39	1111.6	40	1294.3
41	1288.2	42	1341.8	43	1323.5	44	1279.7	45	1090.1
46	1103.0	47	1124.0	48	1208.6	49	1164.6	50	1042.8
51	1042.1	52	1045.3	53	1046.0	54	1050.0	55	1068.1
56	1083.3	57	1096.5	58	1111.5	59	1005.0	60	1011.3
61	1016.8	62	1018.9	63	1033.0	64	1052.2	65	1067.0
66	998.3	67	1002.5	68	1028.3	69	1037.1	70	1056.3
71	1067.8	72	1070.2	73	1076.1	74	1078.8	75	1096.1
76	1121.5	77	911.3	78	977.0	79	1016.8	80	1031.6
81	1055.9	82	1087.3	83	1090.7	84	1092.0	85	961.7
86	977.7	87	982.6	88	992.9	89	1005.7	90	1028.2
91	1054.7	92	1075.2	93	1161.3	94	1141.0	95	1221.6
96	961.9	97	995.8	98	998.1	99	1002.6	100	1046.0
101	1078.8	102	1100.2	103	1123.1	104	1146.2	105	1149.0
106	1155.5	107	1251.8	108	1258.2	109	1278.5	110	1029.8
111	1025.5	112	1078.3	113	1096.0	114	1133.2	115	1155.5

116	1054.9	117	1055.8	118	1061.4	119	1095.7	120	1118.9
121	1147.7	122	1203.0	123	1265.4	124	1304.8	125	1393.6
126	1094.0	127	1099.2	128	1117.2	129	1143.0	130	1175.2
131	1243.2	132	1415.1	133	1522.1	134	1117.8	135	1126.5
136	1139.4	137	1164.3	138	1200.2	139	1270.6	140	1437.1
141	1566.2	142	1605.8	143	1175.5	144	1198.7	145	1229.2
146	1279.5	147	1337.3	148	1429.9	149	1334.9	150	1357.0
151	1433.8	152	1338.3	153	1391.1	154	1475.4	155	1605.2
156	1737.3	157	1809.7	158	1897.1	159	2075.0	160	1349.9
161	1526.0	162	1575.1	163	1486.5	164	1627.8	165	1599.6
166	1549.5	167	1711.4	168	1714.6	169	1703.3	170	1909.8
171	1861.6	172	2001.0	173	2016.3	174	2261.7	175	2311.3
176	2383.9	177	2393.6	178	2576.9				

LOWER AQUIFER

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	1823.7	2	1761.5	3	1712.9	4	1584.4	5	1521.0
6	1445.1	7	1518.5	8	1574.1	9	1688.8	10	1684.3
11	1420.8	12	1407.8	13	1431.6	14	1495.5	15	1678.4
16	1355.4	17	1354.5	18	1335.8	19	1326.4	20	1391.3
21	1618.6	22	1644.7	23	1567.5	24	1245.4	25	1249.3
26	1204.9	27	1168.9	28	1243.3	29	1297.3	30	1328.9
31	1362.2	32	1428.2	33	1445.4	34	1090.8	35	1090.6
36	1082.2	37	1077.0	38	1073.7	39	1111.2	40	1294.2
41	1286.6	42	1341.4	43	1323.5	44	1280.2	45	1089.8
46	1100.2	47	1125.4	48	1208.8	49	1163.1	50	1020.8
51	1036.6	52	1041.8	53	1043.8	54	1046.5	55	1060.7
56	1081.8	57	1097.3	58	1111.3	59	1016.6	60	1022.0
61	1027.0	62	1029.5	63	1032.2	64	1044.0	65	1060.7
66	1015.4	67	1020.8	68	1026.0	69	1030.4	70	1047.5
71	1061.0	72	1071.0	73	1075.3	74	1078.8	75	1096.4
76	1121.1	77	970.2	78	988.3	79	1023.1	80	1032.1
81	1046.8	82	1078.4	83	1091.1	84	1091.2	85	986.1
86	993.0	87	1002.1	88	1007.1	89	1022.2	90	1035.9
91	1050.6	92	1069.2	93	1161.9	94	1141.2	95	1220.6
96	986.1	97	1004.9	98	1009.6	99	1012.4	100	1040.9
101	1069.1	102	1093.1	103	1117.1	104	1143.1	105	1148.7
106	1154.3	107	1252.0	108	1258.4	109	1278.0	110	1020.1
111	1025.5	112	1061.8	113	1089.4	114	1130.2	115	1155.4
116	1044.5	117	1045.6	118	1051.9	119	1086.2	120	1112.6
121	1145.5	122	1203.0	123	1265.0	124	1305.3	125	1393.3
126	1093.1	127	1097.7	128	1113.9	129	1138.1	130	1174.4
131	1243.3	132	1414.2	133	1521.5	134	1117.7	135	1127.0
136	1139.9	137	1165.1	138	1200.7	139	1271.7	140	1438.2
141	1565.1	142	1606.5	143	1175.1	144	1198.2	145	1228.6
146	1279.1	147	1336.6	148	1428.5	149	1335.0	150	1357.1
151	1434.1	152	1338.6	153	1391.5	154	1475.9	155	1602.4
156	1737.5	157	1807.5	158	1897.0	159	2073.6	160	1350.1
161	1525.0	162	1574.8	163	1486.5	164	1627.5	165	1600.3
166	1548.6	167	1709.2	168	1715.0	169	1703.1	170	1908.4
171	1861.6	172	2001.3	173	2016.6	174	2261.4	175	2311.2
176	2383.9	177	2393.4	178	2575.0				

TIME STEP 7

ELAPSED TIME .256E+04 DAYS
.613E+05 HOURS
.368E+07 MINUTES
.221E+09 SECONDS

EVAPOTRANSPIRATION DISCHARGE

TOTAL DISCHARGE 1.429E+01

ELE	VALUE	ELE	VALUE	ELE	VALUE	ELE	VALUE	ELE	VALUE
21	2.697	66	.441	67	3.492	68	3.086	69	1.845
78	2.487	159	.239						

COMPUTED WATER LEVELS

ITERATIONS 1
ERROR .0917

UPPER AQUIFER

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	1815.2	2	1753.6	3	1704.4	4	1578.7	5	1517.7
6	1443.9	7	1519.0	8	1568.8	9	1675.0	10	1676.7
11	1420.9	12	1407.9	13	1430.2	14	1490.7	15	1695.9
16	1359.3	17	1357.0	18	1338.4	19	1328.6	20	1391.5
21	1622.9	22	1663.7	23	1584.7	24	1247.4	25	1252.8
26	1208.8	27	1174.0	28	1247.3	29	1302.3	30	1335.5
31	1372.1	32	1439.8	33	1460.1	34	1114.3	35	1111.0
36	1102.4	37	1097.6	38	1087.3	39	1116.5	40	1304.1
41	1298.1	42	1352.6	43	1333.9	44	1287.8	45	1095.6
46	1109.3	47	1130.9	48	1217.2	49	1173.5	50	1046.8
51	1045.9	52	1049.1	53	1049.7	54	1053.9	55	1073.0
56	1089.6	57	1103.2	58	1118.3	59	1007.7	60	1014.1
61	1019.6	62	1021.7	63	1036.1	64	1056.5	65	1072.2
66	1000.4	67	1004.7	68	1031.1	69	1040.2	70	1060.9
71	1073.3	72	1075.8	73	1082.1	74	1084.9	75	1102.7
76	1128.3	77	914.3	78	979.1	79	1020.1	80	1035.2
81	1060.5	82	1093.5	83	1097.0	84	1098.5	85	964.8
86	980.9	87	985.9	88	996.4	89	1009.8	90	1032.6
91	1059.7	92	1080.8	93	1168.7	94	1148.0	95	1229.0
96	965.7	97	999.9	98	1002.3	99	1006.7	100	1050.8
101	1084.3	102	1106.2	103	1129.9	104	1153.5	105	1156.3
106	1162.9	107	1260.3	108	1266.7	109	1287.9	110	1034.4
111	1030.1	112	1083.6	113	1101.7	114	1139.5	115	1162.5

116	1059.9	117	1060.8	118	1066.4	119	1101.0	120	1124.5
121	1153.9	122	1210.3	123	1274.1	124	1314.1	125	1404.6
126	1099.0	127	1104.1	128	1122.3	129	1148.2	130	1181.0
131	1250.0	132	1425.0	133	1534.0	134	1122.9	135	1131.0
136	1144.0	137	1168.9	138	1205.4	139	1276.6	140	1446.0
141	1578.6	142	1618.3	143	1178.6	144	1201.7	145	1233.7
146	1284.6	147	1343.0	148	1437.1	149	1335.1	150	1357.5
151	1436.5	152	1341.9	153	1395.3	154	1481.5	155	1617.7
156	1745.2	157	1821.2	158	1910.5	159	2093.1	160	1350.2
161	1526.5	162	1576.7	163	1488.7	164	1631.0	165	1600.9
166	1549.6	167	1713.1	168	1713.7	169	1701.3	170	1913.4
171	1854.0	172	2002.3	173	2019.2	174	2259.1	175	2307.0
176	2378.6	177	2388.9	178	2572.0				

LOWER AQUIFER

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	1813.6	2	1753.2	3	1702.5	4	1579.2	5	1517.7
6	1444.2	7	1518.1	8	1568.8	9	1675.0	10	1676.9
11	1420.2	12	1408.0	13	1430.1	14	1490.7	15	1695.6
16	1357.6	17	1356.6	18	1338.4	19	1328.7	20	1391.4
21	1623.1	22	1661.8	23	1585.2	24	1249.6	25	1253.5
26	1209.6	27	1173.6	28	1247.7	29	1302.3	30	1335.6
31	1372.0	32	1440.5	33	1458.8	34	1095.4	35	1095.2
36	1086.8	37	1081.6	38	1078.4	39	1116.2	40	1303.9
41	1296.4	42	1352.2	43	1333.8	44	1288.2	45	1095.4
46	1106.4	47	1132.3	48	1217.4	49	1172.0	50	1025.0
51	1041.0	52	1046.3	53	1048.3	54	1051.1	55	1065.8
56	1088.1	57	1104.0	58	1118.1	59	1020.5	60	1026.1
61	1031.4	62	1033.9	63	1036.7	64	1048.9	65	1066.1
66	1019.7	67	1025.2	68	1030.6	69	1035.2	70	1052.6
71	1066.4	72	1076.7	73	1081.2	74	1084.9	75	1103.0
76	1127.9	77	974.2	78	992.4	79	1027.8	80	1036.9
81	1052.0	82	1084.4	83	1097.4	84	1097.7	85	990.3
86	997.4	87	1006.6	88	1011.7	89	1027.0	90	1040.9
91	1055.8	92	1074.8	93	1169.3	94	1148.1	95	1228.0
96	990.3	97	1009.5	98	1014.3	99	1017.2	100	1046.0
101	1074.5	102	1099.1	103	1123.7	104	1150.2	105	1156.0
106	1161.7	107	1260.5	108	1267.0	109	1287.4	110	1024.7
111	1030.4	112	1067.1	113	1095.0	114	1136.5	115	1162.4
116	1049.3	117	1050.5	118	1056.9	119	1091.4	120	1118.2
121	1151.7	122	1210.3	123	1273.7	124	1314.6	125	1404.3
126	1098.1	127	1102.6	128	1119.0	129	1143.4	130	1180.2
131	1250.1	132	1424.1	133	1533.5	134	1122.8	135	1131.6
136	1144.5	137	1169.7	138	1205.9	139	1277.7	140	1447.0
141	1577.4	142	1618.9	143	1178.2	144	1201.3	145	1233.1
146	1284.2	147	1342.4	148	1435.8	149	1335.1	150	1357.6
151	1436.8	152	1342.2	153	1395.6	154	1482.1	155	1614.7
156	1746.4	157	1819.0	158	1910.4	159	2091.8	160	1350.4
161	1525.5	162	1576.4	163	1488.6	164	1630.7	165	1601.6
166	1548.7	167	1710.8	168	1714.1	169	1701.1	170	1911.9
171	1853.9	172	2002.5	173	2019.4	174	2258.8	175	2306.9
176	2378.6	177	2388.8	178	2570.0				

TIME STEP 8

ELAPSED TIME .292E+04 DAYS
.701E+05 HOURS
.420E+07 MINUTES
.252E+09 SECONDS

EVAPOTRANSPIRATION DISCHARGE

TOTAL DISCHARGE 1.88OE+01

ELE	VALUE	ELE	VALUE	ELE	VALUE	ELE	VALUE	ELE	VALUE
21	3.181	22	.423	66	.596	67	3.942	68	3.554
69	2.361	78	2.825	79	.232	156	.887	159	.800

COMPUTED WATER LEVELS

ITERATIONS 1
ERROR .0906

UPPER AQUIFER

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	1806.6	2	1745.7	3	1693.6	4	1573.6	5	1514.6
6	1442.9	7	1517.9	8	1563.2	9	1662.3	10	1670.9
11	1420.7	12	1407.9	13	1429.2	14	1487.5	15	1711.9
16	1361.0	17	1358.5	18	1340.3	19	1330.8	20	1391.9
21	1626.1	22	1673.4	23	1598.5	24	1250.5	25	1255.9
26	1212.4	27	1178.1	28	1251.1	29	1306.7	30	1341.5
31	1380.9	32	1450.7	33	1473.4	34	1118.3	35	1115.1
36	1106.4	37	1101.7	38	1091.5	39	1121.1	40	1313.7
41	1307.9	42	1363.4	43	1344.9	44	1297.9	45	1100.8
46	1115.3	47	1137.6	48	1225.7	49	1181.7	50	1050.5
51	1049.4	52	1052.5	53	1053.1	54	1057.6	55	1077.6
56	1095.6	57	1109.5	58	1124.9	59	1010.2	60	1016.6
61	1022.1	62	1024.2	63	1039.0	64	1060.4	65	1077.0
66	1002.3	67	1006.5	68	1033.5	69	1043.1	70	1065.3
71	1078.5	72	1081.2	73	1087.8	74	1090.7	75	1108.9
76	1134.6	77	916.9	78	981.0	79	1022.8	80	1038.4
81	1064.8	82	1099.4	83	1103.0	84	1104.6	85	967.6
86	983.9	87	988.9	88	999.5	89	1013.4	90	1036.6
91	1064.4	92	1086.2	93	1176.0	94	1154.7	95	1236.4
96	969.3	97	1003.7	98	1006.2	99	1010.4	100	1055.4
101	1089.7	102	1112.1	103	1136.5	104	1160.7	105	1163.5
106	1170.2	107	1268.9	108	1275.4	109	1296.8	110	1038.8
111	1034.5	112	1088.8	113	1107.2	114	1145.7	115	1169.5

116	1064.6	117	1065.5	118	1071.2	119	1106.2	120	1130.0
121	1160.0	122	1217.6	123	1282.7	124	1323.3	125	1415.0
126	1103.9	127	1108.9	128	1127.3	129	1153.6	130	1187.0
131	1256.9	132	1435.1	133	1546.0	134	1127.7	135	1135.6
136	1148.7	137	1174.0	138	1211.0	139	1282.9	140	1455.2
141	1590.9	142	1631.0	143	1182.3	144	1205.6	145	1238.5
146	1290.0	147	1349.1	148	1445.0	149	1336.1	150	1358.5
151	1439.0	152	1346.3	153	1400.2	154	1488.8	155	1629.9
156	1752.8	157	1831.7	158	1923.0	159	2100.4	160	1351.1
161	1527.2	162	1578.4	163	1491.0	164	1633.6	165	1602.0
166	1550.6	167	1714.0	168	1713.4	169	1700.7	170	1917.4
171	1851.1	172	2004.5	173	2023.0	174	2255.5	175	2303.2
176	2374.8	177	2384.9	178	2565.9				

LOWER AQUIFER

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	1805.0	2	1745.2	3	1691.6	4	1574.2	5	1514.6
6	1443.3	7	1517.0	8	1563.2	9	1662.4	10	1671.1
11	1420.0	12	1408.1	13	1429.1	14	1487.5	15	1711.6
16	1359.3	17	1358.2	18	1340.3	19	1330.8	20	1391.8
21	1626.4	22	1671.5	23	1599.0	24	1252.7	25	1256.6
26	1213.2	27	1177.7	28	1251.5	29	1306.7	30	1341.6
31	1380.8	32	1451.4	33	1472.0	34	1099.4	35	1099.2
36	1090.9	37	1085.8	38	1082.7	39	1120.7	40	1313.6
41	1306.3	42	1362.9	43	1344.8	44	1298.4	45	1100.6
46	1112.3	47	1139.0	48	1225.9	49	1180.1	50	1028.8
51	1044.9	52	1050.3	53	1052.4	54	1055.4	55	1070.5
56	1094.0	57	1110.4	58	1124.7	59	1024.1	60	1029.9
61	1035.4	62	1038.0	63	1041.0	64	1053.4	65	1071.2
66	1023.7	67	1029.3	68	1034.9	69	1039.7	70	1057.3
71	1071.6	72	1082.1	73	1086.9	74	1090.7	75	1109.2
76	1134.2	77	977.9	78	996.2	79	1032.2	80	1041.6
81	1056.8	82	1090.1	83	1103.4	84	1103.7	85	994.3
86	1001.6	87	1010.9	88	1016.0	89	1031.5	90	1045.5
91	1060.7	92	1080.1	93	1176.6	94	1154.8	95	1235.4
96	994.2	97	1013.9	98	1018.7	99	1021.6	100	1050.8
101	1079.8	102	1104.8	103	1130.2	104	1157.3	105	1163.2
106	1169.0	107	1269.0	108	1275.7	109	1296.3	110	1029.0
111	1035.0	112	1072.2	113	1100.5	114	1142.7	115	1169.4
116	1054.0	117	1055.2	118	1061.8	119	1096.6	120	1123.7
121	1157.8	122	1217.6	123	1282.3	124	1323.8	125	1414.7
126	1103.0	127	1107.4	128	1124.1	129	1148.8	130	1186.1
131	1257.1	132	1434.1	133	1545.4	134	1127.6	135	1136.2
136	1149.2	137	1174.8	138	1211.4	139	1284.0	140	1456.2
141	1589.7	142	1631.7	143	1181.9	144	1205.2	145	1238.0
146	1289.6	147	1348.5	148	1443.7	149	1336.1	150	1358.6
151	1439.3	152	1346.6	153	1400.6	154	1489.4	155	1626.8
156	1753.1	157	1829.4	158	1922.9	159	2099.2	160	1351.3
161	1526.2	162	1578.2	163	1491.0	164	1633.2	165	1602.7
166	1549.7	167	1711.8	168	1713.8	169	1700.5	170	1916.0
171	1851.1	172	2004.7	173	2023.2	174	2255.3	175	2303.1
176	2374.8	177	2384.7	178	2564.0				

TIME STEP 9

ELAPSED TIME .329E+04 DAYS
.788E+05 HOURS
.473E+07 MINUTES
.284E+09 SECONDS

EVAPOTRANSPIRATION DISCHARGE

TOTAL DISCHARGE 2.343E+01

ELE	VALUE	ELE	VALUE	ELE	VALUE	ELE	VALUE	ELE	VALUE
21	3.551	22	1.058	63	.256	66	.722	67	4.306
68	3.915	69	2.799	78	3.109	79	.751	156	2.222
159	1.140								

COMPUTED WATER LEVELS

ITERATIONS 1
ERROR .0930

UPPER AQUIFER

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	1798.8	2	1738.3	3	1662.6	4	1568.9	5	1511.6
6	1441.9	7	1516.4	8	1557.5	9	1650.2	10	1666.6
11	1420.5	12	1407.9	13	1428.7	14	1485.4	15	1727.3
16	1362.5	17	1359.8	18	1341.9	19	1333.2	20	1392.8
21	1628.5	22	1678.4	23	1610.3	24	1253.1	25	1258.4
26	1215.4	27	1181.8	28	1254.8	29	1311.1	30	1347.3
31	1389.3	32	1460.1	33	1485.2	34	1121.8	35	1118.6
36	1110.0	37	1105.3	38	1095.3	39	1125.2	40	1322.8
41	1317.2	42	1373.2	43	1355.0	44	1307.1	45	1105.6
46	1120.9	47	1143.8	48	1233.7	49	1189.9	50	1053.7
51	1052.3	52	1055.4	53	1056.1	54	1060.7	55	1081.7
56	1101.2	57	1115.6	58	1131.2	59	1012.2	60	1018.7
61	1024.1	62	1026.3	63	1041.1	64	1063.9	65	1081.4
66	1003.8	67	1008.1	68	1035.4	69	1045.5	70	1069.1
71	1083.4	72	1086.2	73	1093.1	74	1096.1	75	1114.7
76	1140.5	77	919.2	78	982.6	79	1024.7	80	1041.1
81	1068.8	82	1104.9	83	1108.6	84	1110.3	85	970.0
86	986.4	87	991.5	88	1002.2	89	1016.6	90	1040.1
91	1068.7	92	1091.2	93	1183.1	94	1161.1	95	1243.8
96	972.5	97	1007.2	98	1009.7	99	1013.8	100	1059.6
101	1094.7	102	1117.6	103	1142.8	104	1167.7	105	1170.5
106	1177.3	107	1277.3	108	1284.0	109	1305.4	110	1042.8
111	1038.4	112	1093.6	113	1112.4	114	1151.8	115	1176.2

116	1069.1	117	1070.0	118	1075.8	119	1111.2	120	1135.4
121	1166.0	122	1224.6	123	1291.1	124	1332.3	125	1425.1
126	1108.4	127	1113.5	128	1132.2	129	1158.8	130	1192.7
131	1263.7	132	1445.2	133	1557.8	134	1132.1	135	1140.0
136	1153.4	137	1178.9	138	1216.2	139	1289.2	140	1464.5
141	1602.9	142	1643.4	143	1186.3	144	1209.9	145	1243.5
146	1295.7	147	1355.4	148	1453.0	149	1337.4	150	1359.8
151	1440.9	152	1350.5	153	1405.1	154	1496.0	155	1641.7
156	1757.0	157	1840.6	158	1933.8	159	2104.8	160	1352.4
161	1528.6	162	1580.3	163	1493.8	164	1636.2	165	1604.0
166	1553.4	167	1715.3	168	1714.3	169	1702.6	170	1921.4
171	1849.3	172	2006.3	173	2026.6	174	2252.7	175	2300.0
176	2370.9	177	2381.1	178	2560.6				

LOWER AQUIFER

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	1797.2	2	1737.8	3	1680.7	4	1569.4	5	1511.6
6	1442.3	7	1515.5	8	1557.5	9	1650.2	10	1666.8
11	1419.7	12	1408.0	13	1428.7	14	1485.4	15	1727.0
16	1360.8	17	1359.4	18	1341.8	19	1333.3	20	1392.7
21	1628.8	22	1676.7	23	1610.8	24	1255.3	25	1259.1
26	1216.2	27	1181.4	28	1255.2	29	1311.1	30	1347.5
31	1389.1	32	1460.8	33	1483.8	34	1102.9	35	1102.7
36	1094.5	37	1089.5	38	1086.6	39	1124.8	40	1322.7
41	1315.5	42	1372.8	43	1354.9	44	1307.6	45	1105.4
46	1117.8	47	1145.3	48	1233.9	49	1188.3	50	1032.2
51	1048.5	52	1054.0	53	1056.1	54	1059.2	55	1074.8
56	1099.6	57	1116.5	58	1131.0	59	1027.3	60	1033.2
61	1039.0	62	1041.7	63	1044.9	64	1057.6	65	1075.9
66	1027.3	67	1033.0	68	1038.9	69	1043.8	70	1061.7
71	1076.3	72	1087.2	73	1092.2	74	1096.2	75	1115.0
76	1140.1	77	981.2	78	999.6	79	1036.2	80	1045.6
81	1061.2	82	1095.5	83	1109.1	84	1109.4	85	997.9
86	1005.4	87	1014.8	88	1019.9	89	1035.7	90	1049.8
91	1065.3	92	1085.1	93	1183.8	94	1161.3	95	1242.7
96	997.7	97	1017.9	98	1022.8	99	1025.7	100	1055.3
101	1084.7	102	1110.2	103	1136.3	104	1164.1	105	1170.2
106	1176.1	107	1277.5	108	1284.2	109	1304.9	110	1033.1
111	1039.2	112	1076.9	113	1105.7	114	1148.6	115	1176.1
116	1058.4	117	1059.6	118	1066.3	119	1101.5	120	1129.0
121	1163.7	122	1224.6	123	1290.7	124	1332.8	125	1424.8
126	1107.5	127	1112.0	128	1129.0	129	1154.1	130	1191.8
131	1263.8	132	1444.2	133	1557.2	134	1132.0	135	1140.6
136	1153.8	137	1179.6	138	1216.7	139	1290.2	140	1465.5
141	1601.6	142	1644.1	143	1186.0	144	1209.5	145	1243.0
146	1295.3	147	1354.8	148	1451.8	149	1337.5	150	1359.9
151	1441.2	152	1350.8	153	1405.4	154	1496.5	155	1638.5
156	1757.4	157	1838.2	158	1933.6	159	2103.7	160	1352.6
161	1527.6	162	1580.0	163	1493.8	164	1635.9	165	1604.7
166	1552.5	167	1713.1	168	1714.7	169	1702.3	170	1920.0
171	1849.3	172	2006.5	173	2026.9	174	2252.4	175	2299.9
176	2371.0	177	2380.9	178	2558.7				

TIME STEP 10

ELAPSED TIME .365E+04 DAYS
.876E+05 HOURS
.526E+07 MINUTES
.315E+09 SECONDS

EVAPOTRANSPIRATION DISCHARGE

TOTAL DISCHARGE 2.854E+01

ELE	VALUE	ELE	VALUE	ELE	VALUE	ELE	VALUE	ELE	VALUE
21	3.921	22	1.666	63	.646	66	.835	67	4.630
68	4.228	69	3.194	78	3.368	79	1.225	156	3.385
159	1.445								

COMPUTED WATER LEVELS

ITERATIONS 1
ERROR .0937

UPPER AQUIFER

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	1792.2	2	1730.7	3	1671.0	4	1563.0	5	1507.9
6	1440.7	7	1514.5	8	1551.4	9	1637.2	10	1664.7
11	1421.0	12	1408.0	13	1428.9	14	1484.4	15	1744.9
16	1364.7	17	1361.9	18	1344.2	19	1336.0	20	1394.3
21	1631.0	22	1683.2	23	1618.8	24	1255.9	25	1261.1
26	1218.4	27	1185.4	28	1258.5	29	1315.6	30	1353.3
31	1397.4	32	1468.2	33	1495.0	34	1125.0	35	1121.8
36	1113.3	37	1108.6	38	1098.8	39	1129.0	40	1332.1
41	1326.7	42	1382.9	43	1365.0	44	1317.4	45	1110.2
46	1126.4	47	1150.3	48	1242.5	49	1198.1	50	1056.6
51	1055.0	52	1058.0	53	1058.7	54	1063.4	55	1085.4
56	1106.4	57	1121.0	58	1136.1	59	1014.1	60	1020.5
61	1025.9	62	1028.1	63	1042.9	64	1067.1	65	1085.5
66	1005.2	67	1009.4	68	1037.0	69	1047.7	70	1072.6
71	1087.7	72	1090.7	73	1097.7	74	1100.8	75	1120.0
76	1144.9	77	921.4	78	984.1	79	1026.4	80	1043.6
81	1072.4	82	1110.1	83	1113.9	84	1115.5	85	972.2
86	988.7	87	993.8	88	1004.6	89	1019.6	90	1043.4
91	1072.7	92	1095.9	93	1190.2	94	1167.3	95	1252.2
96	975.5	97	1010.4	98	1012.9	99	1016.9	100	1063.6
101	1099.6	102	1123.0	103	1149.1	104	1174.6	105	1177.6
106	1184.4	107	1286.0	108	1292.8	109	1314.7	110	1046.6
111	1042.2	112	1098.3	113	1117.5	114	1157.7	115	1182.9

116	1073.2	117	1074.2	118	1080.1	119	1115.9	120	1140.5
121	1171.8	122	1231.8	123	1299.8	124	1341.4	125	1434.3
126	1112.4	127	1117.5	128	1136.8	129	1163.9	130	1198.5
131	1270.4	132	1455.3	133	1569.7	134	1135.6	135	1143.0
136	1157.4	137	1183.7	138	1221.9	139	1295.3	140	1473.8
141	1615.1	142	1655.2	143	1189.4	144	1215.1	145	1249.0
146	1301.1	147	1361.5	148	1460.9	149	1339.8	150	1361.9
151	1442.0	152	1354.5	153	1410.2	154	1503.1	155	1653.6
156	1760.7	157	1848.7	158	1943.7	159	2108.7	160	1354.4
161	1528.8	162	1582.2	163	1496.8	164	1638.4	165	1606.1
166	1556.9	167	1717.4	168	1716.9	169	1705.8	170	1925.7
171	1852.0	172	2009.5	173	2030.9	174	2248.7	175	2296.3
176	2367.2	177	2377.2	178	2555.6				

LOWER AQUIFER

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	1790.7	2	1730.3	3	1669.1	4	1563.6	5	1508.0
6	1441.0	7	1513.6	8	1551.4	9	1637.2	10	1664.8
11	1420.3	12	1408.1	13	1428.8	14	1484.3	15	1744.6
16	1363.0	17	1361.6	18	1344.1	19	1336.1	20	1394.2
21	1631.4	22	1681.6	23	1619.3	24	1258.0	25	1261.9
26	1219.2	27	1185.0	28	1258.8	29	1315.6	30	1353.4
31	1397.2	32	1468.9	33	1493.5	34	1106.1	35	1105.9
36	1097.9	37	1092.9	38	1090.2	39	1128.6	40	1331.9
41	1325.0	42	1382.4	43	1364.9	44	1317.9	45	1110.1
46	1123.1	47	1151.8	48	1242.6	49	1196.4	50	1035.3
51	1051.7	52	1057.3	53	1059.5	54	1062.8	55	1078.8
56	1104.6	57	1122.0	58	1135.9	59	1030.2	60	1036.3
61	1042.3	62	1045.1	63	1048.4	64	1061.4	65	1080.1
66	1030.6	67	1036.4	68	1042.5	69	1047.6	70	1065.6
71	1080.6	72	1091.6	73	1096.8	74	1100.8	75	1120.3
76	1144.5	77	984.3	78	1002.8	79	1039.9	80	1049.5
81	1065.3	82	1100.5	83	1114.4	84	1114.6	85	1001.3
86	1008.9	87	1018.4	88	1023.6	89	1039.5	90	1053.9
91	1069.6	92	1089.9	93	1190.8	94	1167.4	95	1251.1
96	1001.0	97	1021.7	98	1026.7	99	1029.6	100	1059.6
101	1089.5	102	1115.5	103	1142.4	104	1170.9	105	1177.2
106	1183.1	107	1286.1	108	1293.1	109	1314.2	110	1036.9
111	1043.3	112	1081.5	113	1110.7	114	1154.5	115	1182.8
116	1062.4	117	1063.7	118	1070.6	119	1106.2	120	1134.2
121	1169.5	122	1231.8	123	1299.3	124	1342.0	125	1434.0
126	1111.5	127	1115.9	128	1133.5	129	1159.2	130	1197.7
131	1270.6	132	1454.3	133	1569.0	134	1135.5	135	1143.6
136	1157.9	137	1184.5	138	1222.4	139	1296.4	140	1474.7
141	1613.7	142	1655.9	143	1189.0	144	1214.6	145	1248.5
146	1300.7	147	1360.9	148	1459.7	149	1339.8	150	1362.0
151	1442.4	152	1354.8	153	1410.6	154	1503.6	155	1650.2
156	1761.2	157	1846.1	158	1943.5	159	2107.7	160	1354.6
161	1527.8	162	1581.9	163	1496.7	164	1638.1	165	1606.8
166	1556.1	167	1715.2	168	1717.3	169	1705.4	170	1924.2
171	1851.9	172	2009.8	173	2031.2	174	2248.5	175	2296.3
176	2367.3	177	2377.1	178	2553.7				

TIME STEP 11

ELAPSED TIME .402E+04 DAYS
.964E+05 HOURS
.578E+07 MINUTES
.347E+09 SECONDS

EVAPOTRANSPIRATION DISCHARGE

TOTAL DISCHARGE 3.340E+01

ELE	VALUE	ELE	VALUE	ELE	VALUE	ELE	VALUE	ELE	VALUE
21	4.250	22	2.221	63	1.023	66	.944	67	4.944
68	4.533	69	3.580	78	3.619	79	1.687	155	.404
156	4.484	159	1.708						

COMPUTED WATER LEVELS

ITERATIONS 1
ERROR .0872

UPPER AQUIFER

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	1784.8	2	1723.2	3	1659.7	4	1558.4	5	1505.2
6	1440.1	7	1512.8	8	1546.2	9	1626.7	10	1664.0
11	1421.3	12	1408.2	13	1429.5	14	1483.8	15	1760.3
16	1366.3	17	1363.2	18	1345.7	19	1338.7	20	1395.9
21	1633.2	22	1687.7	23	1626.7	24	1257.9	25	1263.2
26	1220.8	27	1188.6	28	1261.9	29	1319.8	30	1358.9
31	1405.4	32	1476.4	33	1505.7	34	1127.9	35	1124.7
36	1116.4	37	1111.7	38	1102.0	39	1132.6	40	1341.3
41	1336.1	42	1392.8	43	1375.5	44	1328.2	45	1114.5
46	1131.6	47	1156.3	48	1250.8	49	1205.6	50	1059.2
51	1057.5	52	1060.5	53	1061.1	54	1066.0	55	1089.1
56	1111.4	57	1126.4	58	1141.1	59	1015.9	60	1022.3
61	1027.7	62	1029.8	63	1044.6	64	1070.1	65	1089.4
66	1006.5	67	1010.7	68	1038.6	69	1049.8	70	1076.1
71	1092.0	72	1095.1	73	1102.4	74	1105.5	75	1125.5
76	1150.1	77	923.5	78	985.5	79	1028.1	80	1046.1
81	1075.9	82	1115.3	83	1119.2	84	1120.9	85	974.4
86	991.0	87	996.1	88	1007.0	89	1022.4	90	1046.6
91	1076.7	92	1100.6	93	1197.5	94	1173.8	95	1260.1
96	978.4	97	1013.6	98	1016.1	99	1019.9	100	1067.5
101	1104.4	102	1128.4	103	1155.4	104	1181.7	105	1184.7
106	1191.6	107	1294.3	108	1301.2	109	1323.1	110	1050.2
111	1045.8	112	1102.9	113	1122.6	114	1163.6	115	1189.6

116	1077.3	117	1078.2	118	1084.3	119	1120.6	120	1145.7
121	1177.7	122	1238.8	123	1308.2	124	1350.2	125	1443.3
126	1116.3	127	1121.6	128	1141.4	129	1169.1	130	1204.3
131	1277.1	132	1465.3	133	1580.9	134	1139.1	135	1146.8
136	1162.0	137	1188.9	138	1227.5	139	1301.6	140	1483.0
141	1626.2	142	1666.6	143	1193.3	144	1220.2	145	1254.3
146	1306.7	147	1367.9	148	1468.9	149	1342.2	150	1364.0
151	1443.2	152	1358.9	153	1415.8	154	1510.4	155	1663.9
156	1764.2	157	1856.3	158	1952.6	159	2112.1	160	1356.6
161	1529.3	162	1584.4	163	1499.7	164	1640.5	165	1608.8
166	1561.0	167	1720.0	168	1720.0	169	1709.6	170	1929.7
171	1854.8	172	2012.1	173	2034.4	174	2245.6	175	2293.1
176	2363.7	177	2373.7	178	2551.2				

LOWER AQUIFER

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	1783.2	2	1722.8	3	1657.8	4	1558.9	5	1505.2
6	1440.4	7	1511.9	8	1546.2	9	1626.7	10	1664.1
11	1420.5	12	1408.4	13	1429.4	14	1483.8	15	1759.9
16	1364.6	17	1362.9	18	1345.6	19	1338.7	20	1395.8
21	1633.6	22	1686.0	23	1627.3	24	1260.1	25	1263.9
26	1221.5	27	1188.2	28	1262.2	29	1319.8	30	1359.0
31	1405.2	32	1477.1	33	1504.1	34	1109.0	35	1108.9
36	1101.0	37	1096.2	38	1093.6	39	1132.2	40	1341.1
41	1334.4	42	1392.3	43	1375.4	44	1328.7	45	1114.5
46	1128.2	47	1157.9	48	1250.9	49	1204.0	50	1038.2
51	1054.8	52	1060.5	53	1062.8	54	1066.2	55	1082.6
56	1109.6	57	1127.3	58	1140.9	59	1033.0	60	1039.3
61	1045.5	62	1048.4	63	1051.9	64	1065.2	65	1084.3
66	1033.9	67	1039.7	68	1046.1	69	1051.4	70	1069.5
71	1084.8	72	1096.1	73	1101.4	74	1105.5	75	1125.7
76	1149.7	77	987.3	78	1005.9	79	1043.5	80	1053.3
81	1069.4	82	1105.6	83	1119.8	84	1120.0	85	1004.6
86	1012.4	87	1021.9	88	1027.2	89	1043.4	90	1057.9
91	1073.9	92	1094.6	93	1198.1	94	1173.9	95	1259.1
96	1004.3	97	1025.4	98	1030.5	99	1033.4	100	1063.8
101	1094.2	102	1120.7	103	1148.5	104	1177.8	105	1184.2
106	1190.3	107	1294.5	108	1301.5	109	1322.6	110	1040.5
111	1047.2	112	1086.1	113	1115.7	114	1160.4	115	1189.4
116	1066.4	117	1067.7	118	1074.8	119	1110.8	120	1139.3
121	1175.4	122	1238.8	123	1307.7	124	1350.8	125	1443.0
126	1115.4	127	1120.0	128	1138.1	129	1164.4	130	1203.4
131	1277.3	132	1464.2	133	1580.2	134	1139.0	135	1147.4
136	1162.4	137	1189.7	138	1228.0	139	1302.7	140	1483.8
141	1624.7	142	1667.3	143	1192.9	144	1219.8	145	1253.8
146	1306.4	147	1367.3	148	1467.7	149	1342.2	150	1364.2
151	1443.5	152	1359.2	153	1416.1	154	1510.9	155	1660.4
156	1764.8	157	1853.6	158	1952.4	159	2111.2	160	1356.8
161	1528.3	162	1584.1	163	1499.6	164	1640.2	165	1609.5
166	1560.2	167	1717.7	168	1720.4	169	1709.2	170	1928.2
171	1854.7	172	2012.4	173	2034.8	174	2245.4	175	2293.1
176	2363.7	177	2373.6	178	2549.2				

TIME STEP 12

ELAPSED TIME .438E+04 DAYS
.105E+06 HOURS
.631E+07 MINUTES
.378E+09 SECONDS

EVAPOTRANSPIRATION DISCHARGE

TOTAL DISCHARGE 3.978E+01

ELE	VALUE	ELE	VALUE	ELE	VALUE	ELE	VALUE	ELE	VALUE
21	4.567	22	2.755	62	.161	63	1.363	66	1.033
67	5.201	68	4.814	69	3.947	78	3.817	79	2.109
85	.162	87	.059	155	1.239	156	5.450	157	.151
159	1.951								

COMPUTED WATER LEVELS

ITERATIONS 1
ERROR .0891

UPPER AQUIFER

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	1777.4	2	1716.1	3	1649.8	4	1554.4	5	1502.9
6	1439.6	7	1511.5	8	1541.9	9	1618.1	10	1664.1
11	1421.3	12	1408.4	13	1430.2	14	1483.5	15	1773.9
16	1367.2	17	1364.0	18	1346.7	19	1341.2	20	1397.4
21	1635.3	22	1691.9	23	1634.4	24	1259.5	25	1264.8
26	1222.9	27	1191.6	28	1265.1	29	1323.7	30	1364.4
31	1413.3	32	1484.4	33	1516.2	34	1130.6	35	1127.4
36	1119.2	37	1114.6	38	1105.1	39	1136.0	40	1350.3
41	1345.2	42	1402.4	43	1385.7	44	1338.8	45	1118.6
46	1136.5	47	1161.9	48	1258.6	49	1212.8	50	1061.7
51	1059.7	52	1062.7	53	1063.3	54	1068.4	55	1092.5
56	1116.2	57	1131.5	58	1146.1	59	1017.4	60	1023.8
61	1029.0	62	1031.1	63	1046.1	64	1073.1	65	1093.2
66	1007.6	67	1011.8	68	1040.1	69	1051.8	70	1079.4
71	1096.2	72	1099.4	73	1107.0	74	1110.2	75	1131.0
76	1155.5	77	925.0	78	986.7	79	1029.6	80	1048.4
81	1079.4	82	1120.6	83	1124.6	84	1126.3	85	975.9
86	992.7	87	997.9	88	1009.0	89	1025.1	90	1049.7
91	1080.6	92	1105.3	93	1204.7	94	1180.3	95	1267.9
96	980.9	97	1016.5	98	1019.1	99	1022.7	100	1071.3

101	1109.1	102	1133.7	103	1161.5	104	1188.6	105	1191.7
106	1198.7	107	1302.5	108	1309.6	109	1331.2	110	1053.7
111	1049.3	112	1107.4	113	1127.5	114	1169.4	115	1196.1
116	1081.2	117	1082.1	118	1088.4	119	1125.2	120	1150.8
121	1183.5	122	1245.8	123	1316.7	124	1359.0	125	1452.9
126	1120.3	127	1125.8	128	1146.1	129	1174.3	130	1210.1
131	1284.0	132	1475.1	133	1591.3	134	1142.8	135	1151.0
136	1166.8	137	1194.2	138	1233.2	139	1308.1	140	1491.9
141	1635.9	142	1677.3	143	1197.8	144	1225.5	145	1259.6
146	1312.5	147	1374.4	148	1476.9	149	1344.7	150	1366.1
151	1444.5	152	1363.7	153	1421.7	154	1517.7	155	1671.9
156	1767.2	157	1862.1	158	1960.4	159	2115.3	160	1358.7
161	1530.2	162	1586.8	163	1502.5	164	1642.6	165	1611.9
166	1565.5	167	1722.9	168	1723.5	169	1713.6	170	1933.4
171	1857.6	172	2014.6	173	2037.8	174	2243.0	175	2290.3
176	2360.5	177	2370.5	178	2546.9				

LOWER AQUIFER

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	1775.8	2	1715.7	3	1647.9	4	1554.9	5	1502.9
6	1439.9	7	1510.6	8	1541.9	9	1618.2	10	1664.2
11	1420.5	12	1408.5	13	1430.2	14	1483.5	15	1773.5
16	1365.5	17	1363.7	18	1346.6	19	1341.2	20	1397.4
21	1635.7	22	1690.3	23	1635.0	24	1261.7	25	1265.5
26	1223.7	27	1191.2	28	1265.4	29	1323.7	30	1364.5
31	1412.9	32	1485.1	33	1514.6	34	1111.7	35	1111.6
36	1103.9	37	1099.2	38	1096.8	39	1135.6	40	1350.1
41	1343.5	42	1401.9	43	1385.6	44	1339.3	45	1118.7
46	1133.0	47	1163.6	48	1258.7	49	1211.1	50	1040.9
51	1057.7	52	1063.6	53	1065.9	54	1069.5	55	1086.2
56	1114.3	57	1132.5	58	1146.0	59	1035.6	60	1042.1
61	1048.5	62	1051.5	63	1055.2	64	1068.8	65	1088.3
66	1036.9	67	1042.9	68	1049.5	69	1055.0	70	1073.3
71	1089.0	72	1100.5	73	1106.0	74	1110.3	75	1131.3
76	1155.1	77	990.0	78	1008.8	79	1047.0	80	1057.0
81	1073.3	82	1110.6	83	1125.1	84	1125.3	85	1007.6
86	1015.7	87	1025.3	88	1030.7	89	1047.1	90	1061.8
91	1078.1	92	1099.3	93	1205.3	94	1180.5	95	1266.8
96	1007.2	97	1029.0	98	1034.1	99	1037.0	100	1067.9
101	1098.8	102	1125.9	103	1154.5	104	1184.6	105	1191.2
106	1197.4	107	1302.7	108	1309.8	109	1330.7	110	1044.1
111	1051.0	112	1090.5	113	1120.7	114	1166.2	115	1196.0
116	1070.3	117	1071.6	118	1078.9	119	1115.5	120	1144.4
121	1181.2	122	1245.8	123	1316.1	124	1359.6	125	1452.6
126	1119.5	127	1124.3	128	1142.9	129	1169.6	130	1209.2
131	1284.2	132	1474.0	133	1590.6	134	1142.7	135	1151.6
136	1167.2	137	1195.0	138	1233.7	139	1309.1	140	1492.7
141	1634.3	142	1678.0	143	1197.4	144	1225.0	145	1259.1
146	1312.2	147	1373.9	148	1475.7	149	1344.7	150	1366.3
151	1444.9	152	1364.0	153	1422.0	154	1518.2	155	1668.5

156	1767.9	157	1859.3	158	1960.2	159	2114.4	160	1359.0
161	1529.2	162	1586.5	163	1502.4	164	1642.3	165	1612.5
166	1564.6	167	1720.6	168	1723.9	169	1713.2	170	1931.9
171	1857.6	172	2014.8	173	2038.1	174	2242.8	175	2290.3
176	2360.5	177	2370.3	178	2545.0				

TIME STEP 13

ELAPSED TIME .475E+04 DAYS
.114E+06 HOURS
.683E+07 MINUTES
.410E+09 SECONDS

EVAPOTRANSPIRATION DISCHARGE

TOTAL DISCHARGE 4.455E+01

ELE	VALUE	ELE	VALUE	ELE	VALUE	ELE	VALUE	ELE	VALUE
21	4.871	22	3.269	61	.008	62	.316	63	1.654
66	1.105	67	5.413	68	5.045	69	4.236	78	3.970
79	2.463	81	.638	85	.344	86	.098	87	.145
155	2.027	156	6.330	157	.455	159	2.163		

COMPUTED WATER LEVELS

ITERATIONS 1
ERROR .0921

UPPER AQUIFER

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	1770.3	2	1709.5	3	1641.3	4	1550.8	5	1500.8
6	1439.1	7	1510.4	8	1538.4	9	1611.1	10	1665.0
11	1421.2	12	1408.3	13	1431.2	14	1483.6	15	1786.2
16	1367.9	17	1364.5	18	1347.3	19	1343.6	20	1399.1
21	1637.3	22	1696.0	23	1641.9	24	1260.9	25	1266.1
26	1224.7	27	1194.4	28	1268.2	29	1327.6	30	1369.7
31	1420.9	32	1492.3	33	1526.7	34	1133.0	35	1129.9
36	1121.8	37	1117.2	38	1107.9	39	1139.2	40	1359.1
41	1354.2	42	1411.9	43	1395.9	44	1349.1	45	1122.4
46	1141.1	47	1167.2	48	1266.1	49	1219.7	50	1063.9
51	1061.7	52	1064.6	53	1065.3	54	1070.6	55	1095.6
56	1120.7	57	1136.4	58	1151.1	59	1018.7	60	1025.1

61	1030.1	62	1032.3	63	1047.4	64	1075.6	65	1096.6
66	1008.5	67	1012.7	68	1041.3	69	1053.4	70	1082.1
71	1099.9	72	1103.4	73	1111.3	74	1114.7	75	1136.4
76	1161.2	77	926.2	78	987.5	79	1030.9	80	1050.3
81	1081.5	82	1125.5	83	1129.6	84	1131.5	85	977.0
86	993.9	87	999.2	88	1010.6	89	1027.5	90	1052.6
91	1084.1	92	1109.6	93	1211.8	94	1186.9	95	1275.5
96	983.1	97	1019.0	98	1021.7	99	1025.2	100	1074.8
101	1113.6	102	1138.8	103	1167.6	104	1195.4	105	1198.6
106	1205.8	107	1310.6	108	1317.7	109	1339.1	110	1056.9
111	1052.5	112	1111.7	113	1132.4	114	1175.1	115	1202.6
116	1085.0	117	1085.9	118	1092.3	119	1129.8	120	1155.9
121	1189.3	122	1252.7	123	1325.0	124	1367.5	125	1462.3
126	1124.3	127	1130.1	128	1150.9	129	1179.6	130	1215.8
131	1290.9	132	1484.7	133	1601.3	134	1146.7	135	1155.5
136	1171.8	137	1199.6	138	1238.8	139	1314.6	140	1500.8
141	1645.2	142	1687.3	143	1202.8	144	1230.9	145	1264.8
146	1318.4	147	1381.1	148	1484.8	149	1347.1	150	1368.2
151	1446.1	152	1368.8	153	1427.9	154	1525.0	155	1679.5
156	1770.0	157	1866.3	158	1967.0	159	2118.0	160	1360.9
161	1531.5	162	1589.3	163	1505.3	164	1644.8	165	1615.4
166	1570.3	167	1726.1	168	1727.1	169	1717.7	170	1936.6
171	1860.2	172	2016.6	173	2040.4	174	2241.2	175	2288.0
176	2357.7	177	2367.6	178	2543.2				

LOWER AQUIFER

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	1768.8	2	1709.1	3	1639.4	4	1551.4	5	1500.6
6	1439.4	7	1509.5	8	1538.4	9	1611.1	10	1665.1
11	1420.4	12	1408.5	13	1431.1	14	1483.6	15	1785.8
16	1366.2	17	1364.2	18	1347.3	19	1343.7	20	1399.0
21	1637.7	22	1694.5	23	1642.5	24	1263.1	25	1266.8
26	1225.5	27	1194.0	28	1268.5	29	1327.6	30	1369.9
31	1420.5	32	1493.0	33	1525.0	34	1114.1	35	1114.1
36	1106.6	37	1102.0	38	1099.7	39	1138.8	40	1358.8
41	1352.4	42	1411.3	43	1395.7	44	1349.6	45	1122.5
46	1137.5	47	1168.9	48	1266.2	49	1218.0	50	1043.3
51	1060.3	52	1066.3	53	1068.7	54	1072.4	55	1089.6
56	1118.8	57	1137.4	58	1150.9	59	1038.0	60	1044.6
61	1051.3	62	1054.3	63	1058.2	64	1072.0	65	1092.0
66	1039.7	67	1045.7	68	1052.6	69	1058.2	70	1076.7
71	1092.7	72	1104.5	73	1110.3	74	1114.7	75	1136.6
76	1160.8	77	992.5	78	1011.3	79	1050.2	80	1060.4
81	1076.9	82	1115.3	83	1130.2	84	1130.5	85	1010.3
86	1018.6	87	1028.4	88	1033.8	89	1050.5	90	1065.3
91	1082.0	92	1103.6	93	1212.5	94	1187.0	95	1274.5
96	1009.9	97	1032.2	98	1037.4	99	1040.4	100	1071.7
101	1103.2	102	1130.9	103	1160.4	104	1191.2	105	1198.1
106	1204.4	107	1310.8	108	1317.9	109	1338.6	110	1047.3
111	1054.6	112	1094.8	113	1125.4	114	1171.8	115	1202.5

116	1074.1	117	1075.4	118	1082.9	119	1120.0	120	1149.4
121	1186.9	122	1252.7	123	1324.4	124	1368.1	125	1462.0
126	1123.5	127	1128.6	128	1147.6	129	1174.8	130	1215.0
131	1291.1	132	1483.5	133	1600.5	134	1146.6	135	1156.0
136	1172.2	137	1200.3	138	1239.3	139	1315.6	140	1501.5
141	1643.4	142	1688.0	143	1202.3	144	1230.4	145	1264.3
146	1318.0	147	1380.5	148	1483.6	149	1347.2	150	1368.4
151	1446.4	152	1369.0	153	1428.2	154	1525.5	155	1676.1
156	1770.8	157	1863.6	158	1966.7	159	2117.2	160	1361.1
161	1530.5	162	1589.0	163	1505.3	164	1644.5	165	1616.1
166	1569.5	167	1723.9	168	1727.5	169	1717.4	170	1935.1
171	1860.2	172	2016.9	173	2040.7	174	2241.0	175	2287.9
176	2357.7	177	2367.5	178	2541.3				

TIME STEP 14

ELAPSED TIME .511E+04 DAYS
.123E+06 HOURS
.736E+07 MINUTES
.442E+09 SECONDS

EVAPOTRANSPIRATION DISCHARGE

TOTAL DISCHARGE .054E+01

ELE	VALUE	ELE	VALUE	ELE	VALUE	ELE	VALUE	ELE	VALUE
21	5.209	22	3.822	61	.073	62	.451	63	1.921
66	1.171	67	5.603	68	5.256	69	4.496	78	4.109
79	2.791	81	1.372	85	.510	86	.214	87	.225
141	.237	155	2.800	156	7.172	157	.732	159	2.376

COMPUTED WATER LEVELS

ITERATIONS 1
ERROR .0905

UPPER AQUIFER

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	1763.8	2	1703.6	3	1634.3	4	1547.6	5	1498.9
6	1438.5	7	1509.4	8	1535.7	9	1605.2	10	1666.1
11	1420.8	12	1408.1	13	1432.2	14	1483.7	15	1797.8
16	1368.3	17	1364.8	18	1347.8	19	1346.1	20	1400.8

21	1639.5	22	1700.4	23	1649.7	24	1262.2	25	1267.3
26	1226.4	27	1197.1	28	1271.2	29	1331.4	30	1375.2
31	1428.8	32	1500.3	33	1537.5	34	1135.3	35	1132.1
36	1124.2	37	1119.6	38	1110.5	39	1142.2	40	1368.0
41	1363.3	42	1421.6	43	1406.2	44	1359.1	45	1126.1
46	1145.6	47	1172.4	48	1273.4	49	1226.9	50	1065.9
51	1063.6	52	1066.4	53	1067.1	54	1072.6	55	1098.6
56	1125.2	57	1141.3	58	1156.1	59	1019.9	60	1026.2
61	1031.1	62	1033.2	63	1048.6	64	1077.9	65	1099.9
66	1009.3	67	1013.5	68	1042.4	69	1054.9	70	1084.6
71	1103.5	72	1107.2	73	1115.5	74	1118.9	75	1141.5
76	1166.4	77	927.3	78	988.3	79	1032.1	80	1051.9
81	1083.2	82	1130.1	83	1134.5	84	1136.4	85	978.0
86	995.1	87	1000.4	88	1012.0	89	1029.7	90	1055.2
91	1087.4	92	1113.6	93	1218.7	94	1193.1	95	1282.9
96	985.2	97	1021.4	98	1024.1	99	1027.5	100	1078.2
101	1118.0	102	1143.7	103	1173.4	104	1202.1	105	1205.4
106	1212.6	107	1318.5	108	1325.7	109	1347.1	110	1060.0
111	1055.6	112	1116.0	113	1137.1	114	1180.7	115	1209.0
116	1088.6	117	1089.6	118	1096.2	119	1134.3	120	1160.8
121	1194.9	122	1259.6	123	1333.3	124	1375.9	125	1471.4
126	1128.4	127	1134.4	128	1155.6	129	1184.7	130	1221.5
131	1297.6	132	1494.3	133	1611.0	134	1150.8	135	1160.1
136	1176.7	137	1204.8	138	1244.3	139	1321.0	140	1509.5
141	1653.9	142	1696.8	143	1207.8	144	1236.0	145	1269.9
146	1324.3	147	1387.8	148	1492.7	149	1349.6	150	1370.4
151	1448.1	152	1374.0	153	1434.2	154	1532.3	155	1686.9
156	1772.7	157	1870.1	158	1972.9	159	2120.8	160	1363.1
161	1533.2	162	1591.9	163	1508.2	164	1647.3	165	1619.3
166	1575.4	167	1729.6	168	1730.9	169	1721.9	170	1939.6
171	1862.7	172	2018.6	173	2042.7	174	2239.8	175	2286.0
176	2355.1	177	2365.0	178	2539.7				

LOWER AQUIFER

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	1762.2	2	1703.2	3	1632.4	4	1548.1	5	1498.9
6	1438.8	7	1508.6	8	1535.7	9	1605.2	10	1666.2
11	1420.0	12	1408.3	13	1432.1	14	1483.7	15	1797.3
16	1366.6	17	1364.5	18	1347.7	19	1346.1	20	1400.8
21	1640.0	22	1698.9	23	1650.2	24	1264.3	25	1268.0
26	1227.2	27	1196.7	28	1271.6	29	1331.4	30	1375.3
31	1428.4	32	1501.0	33	1535.7	34	1116.4	35	1116.3
36	1109.1	37	1104.6	38	1102.5	39	1141.8	40	1367.8
41	1361.5	42	1421.0	43	1406.0	44	1359.7	45	1126.3
46	1141.9	47	1174.2	48	1273.6	49	1225.1	50	1045.5
51	1062.7	52	1068.9	53	1071.4	54	1075.2	55	1092.8
56	1123.2	57	1142.4	58	1155.9	59	1040.2	60	1047.0
61	1053.8	62	1057.0	63	1061.0	64	1075.1	65	1095.5
66	1042.3	67	1048.4	68	1055.5	69	1061.3	70	1080.0
71	1096.3	72	1108.4	73	1114.4	74	1119.0	75	1141.7

76	1165.9	77	994.8	78	1013.7	79	1053.2	80	1063.5
81	1080.3	82	1119.8	83	1135.1	84	1135.4	85	1012.9
86	1021.5	87	1031.3	88	1036.8	89	1053.7	90	1068.8
91	1085.7	92	1107.8	93	1219.3	94	1193.2	95	1281.8
96	1012.4	97	1035.3	98	1040.6	99	1043.6	100	1075.4
101	1107.4	102	1135.7	103	1166.0	104	1197.7	105	1204.8
106	1211.2	107	1318.7	108	1325.9	109	1346.6	110	1050.5
111	1058.1	112	1098.9	113	1130.0	114	1177.4	115	1208.8
116	1077.7	117	1079.0	118	1086.7	119	1124.4	120	1154.3
121	1192.4	122	1259.6	123	1332.6	124	1376.5	125	1471.2
126	1127.6	127	1132.9	128	1152.3	129	1179.9	130	1220.6
131	1297.9	132	1493.1	133	1610.2	134	1150.7	135	1160.7
136	1177.2	137	1205.6	138	1244.8	139	1322.1	140	1510.2
141	1652.1	142	1697.5	143	1207.3	144	1235.6	145	1269.4
146	1324.0	147	1387.2	148	1491.6	149	1349.7	150	1370.5
151	1448.4	152	1374.3	153	1434.5	154	1532.7	155	1683.6
156	1773.5	157	1867.4	158	1972.6	159	2120.0	160	1363.3
161	1532.2	162	1591.6	163	1508.1	164	1647.0	165	1620.0
166	1574.6	167	1727.4	168	1731.3	169	1721.6	170	1938.1
171	1862.7	172	2018.9	173	2043.1	174	2239.5	175	2285.9
176	2355.2	177	2364.8	178	2537.8				

TIME STEP 15

ELAPSED TIME .548E+04 DAYS
.131E+06 HOURS
.788E+07 MINUTES
.473E+09 SECONDS

EVAPOTRANSPIRATION DISCHARGE

TOTAL DISCHARGE 5.657E+01

ELE	VALUE	ELE	VALUE	ELE	VALUE	ELE	VALUE	ELE	VALUE
21	5.551	22	4.382	61	.135	62	.581	63	2.179
66	1.233	67	5.786	68	5.459	69	4.748	78	4.241
79	3.103	81	2.086	85	.665	86	.320	87	.297
88	.070	141	.700	155	3.502	156	7.962	157	.969
159	2.583								

COMPUTED WATER LEVELS

ITERATIONS 1
ERROR .0866

UPPER AQUIFER

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	1757.9	2	1698.3	3	1628.5	4	1544.7	5	1497.0
6	1437.7	7	1508.5	8	1533.7	9	1600.2	10	1667.1
11	1420.2	12	1407.8	13	1433.4	14	1484.0	15	1808.7
16	1368.6	17	1365.0	18	1348.1	19	1348.6	20	1402.7
21	1641.8	22	1704.8	23	1657.7	24	1263.4	25	1268.5
26	1228.1	27	1199.7	28	1274.2	29	1335.3	30	1380.6
31	1436.8	32	1508.5	33	1548.3	34	1137.4	35	1134.3
36	1126.5	37	1122.0	38	1113.1	39	1145.2	40	1377.0
41	1372.5	42	1431.4	43	1416.5	44	1368.8	45	1129.7
46	1150.1	47	1177.7	48	1280.9	49	1234.3	50	1067.8
51	1065.3	52	1068.2	53	1068.8	54	1074.5	55	1101.5
56	1129.7	57	1146.3	58	1161.0	59	1021.0	60	1027.3
61	1032.0	62	1034.1	63	1049.7	64	1080.2	65	1103.1
66	1010.0	67	1014.3	68	1043.4	69	1056.3	70	1087.0
71	1106.9	72	1110.9	73	1119.6	74	1123.2	75	1146.5
76	1171.5	77	928.3	78	989.1	79	1033.2	80	1053.6
81	1084.8	82	1134.6	83	1139.2	84	1141.3	85	978.9
86	996.1	87	1001.5	88	1013.4	89	1031.9	90	1057.8
91	1090.6	92	1117.6	93	1225.5	94	1199.1	95	1289.9
96	987.1	97	1023.7	98	1026.5	99	1029.7	100	1081.5
101	1122.3	102	1148.6	103	1179.2	104	1208.8	105	1212.1
106	1219.4	107	1326.5	108	1333.7	109	1354.8	110	1062.9
111	1058.6	112	1120.1	113	1141.7	114	1186.2	115	1215.3
116	1092.2	117	1093.2	118	1100.0	119	1138.7	120	1165.7
121	1200.5	122	1266.4	123	1341.6	124	1384.4	125	1480.7
126	1132.6	127	1138.8	128	1160.2	129	1189.8	130	1227.1
131	1304.4	132	1503.6	133	1619.9	134	1155.2	135	1164.7
136	1181.6	137	1210.0	138	1249.8	139	1327.6	140	1518.0
141	1661.4	142	1705.3	143	1212.5	144	1241.0	145	1275.1
146	1330.3	147	1394.5	148	1500.3	149	1352.2	150	1372.7
151	1450.4	152	1379.3	153	1440.5	154	1539.3	155	1693.7
156	1775.2	157	1873.6	158	1978.3	159	2123.5	160	1365.4
161	1535.1	162	1594.4	163	1511.1	164	1650.0	165	1623.4
166	1580.5	167	1733.3	168	1734.9	169	1726.1	170	1942.4
171	1865.2	172	2020.6	173	2044.9	174	2238.6	175	2284.3
176	2352.8	177	2362.5	178	2536.6				

LOWER AQUIFER

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	1756.3	2	1697.9	3	1626.6	4	1545.2	5	1497.0
6	1438.0	7	1507.6	8	1533.7	9	1600.2	10	1667.2
11	1419.5	12	1407.9	13	1433.3	14	1484.0	15	1808.2
16	1367.0	17	1364.7	18	1348.1	19	1348.6	20	1402.6
21	1642.3	22	1703.4	23	1658.3	24	1265.5	25	1269.2
26	1228.9	27	1199.3	28	1274.6	29	1335.3	30	1380.8
31	1436.3	32	1509.2	33	1546.5	34	1118.6	35	1118.6
36	1111.5	37	1107.1	38	1105.2	39	1144.8	40	1376.7
41	1370.7	42	1430.7	43	1416.2	44	1369.5	45	1129.9
46	1146.2	47	1179.5	48	1281.0	49	1232.4	50	1047.7
51	1065.1	52	1071.4	53	1074.0	54	1077.9	55	1095.9
56	1127.6	57	1147.3	58	1160.8	59	1042.3	60	1049.3
61	1056.3	62	1059.6	63	1063.8	64	1078.2	65	1099.0
66	1044.8	67	1051.1	68	1058.4	69	1064.3	70	1083.1
71	1099.8	72	1112.2	73	1118.4	74	1123.3	75	1146.7
76	1171.1	77	997.0	78	1016.1	79	1056.2	80	1066.7
81	1083.6	82	1124.3	83	1139.9	84	1140.2	85	1015.5
86	1024.2	87	1034.2	88	1039.8	89	1056.9	90	1072.1
91	1089.3	92	1111.9	93	1226.2	94	1199.2	95	1288.8
96	1014.8	97	1038.4	98	1043.8	99	1046.8	100	1079.0
101	1111.6	102	1140.4	103	1171.7	104	1204.2	105	1211.5
106	1218.0	107	1326.7	108	1334.0	109	1354.3	110	1053.5
111	1061.5	112	1103.0	113	1134.6	114	1182.9	115	1215.2
116	1081.2	117	1082.6	118	1090.5	119	1128.8	120	1159.2
121	1198.0	122	1266.4	123	1340.9	124	1385.1	125	1480.4
126	1131.7	127	1137.2	128	1156.9	129	1185.0	130	1226.2
131	1304.7	132	1502.4	133	1619.0	134	1155.1	135	1165.3
136	1182.0	137	1210.8	138	1250.3	139	1328.6	140	1518.6
141	1659.7	142	1705.9	143	1212.0	144	1240.5	145	1274.6
146	1330.0	147	1393.9	148	1499.2	149	1352.2	150	1372.9
151	1450.7	152	1379.6	153	1440.8	154	1539.7	155	1690.4
156	1776.0	157	1871.0	158	1978.0	159	2122.7	160	1365.7
161	1534.1	162	1594.1	163	1511.1	164	1649.7	165	1624.0
166	1579.7	167	1731.1	168	1735.3	169	1725.8	170	1940.9
171	1865.2	172	2020.8	173	2045.3	174	2238.4	175	2284.2
176	2352.8	177	2362.4	178	2534.7				

TIME STEP 16

ELAPSED TIME .584E+04 DAYS
.140E+06 HOURS
.841E+07 MINUTES
.505E+09 SECONDS

EVAPOTRANSPIRATION DISCHARGE

TOTAL DISCHARGE 6.272E+01

ELE	VALUE	ELE	VALUE	ELE	VALUE	ELE	VALUE	ELE	VALUE
21	5.889	22	4.933	42	.040	61	.195	62	.705
63	2.427	66	1.292	67	5.957	68	5.653	69	4.990
78	4.361	79	3.391	81	2.766	82	.211	85	.800
86	.410	87	.356	88	.277	141	1.148	155	4.181
156	8.725	157	1.234	159	2.783				

COMPUTED WATER LEVELS

ITERATIONS 1
ERROR .0874

UPPER AQUIFER

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	1752.5	2	1693.6	3	1623.7	4	1541.9	5	1495.2
6	1437.0	7	1507.5	8	1532.2	9	1596.0	10	1668.2
11	1419.6	12	1407.4	13	1434.7	14	1484.6	15	1819.2
16	1368.9	17	1365.2	18	1348.5	19	1351.2	20	1404.6
21	1644.0	22	1709.2	23	1665.9	24	1264.6	25	1269.6
26	1229.8	27	1202.3	28	1277.3	29	1339.2	30	1386.1
31	1444.7	32	1516.7	33	1559.2	34	1139.5	35	1136.4
36	1128.7	37	1124.3	38	1115.6	39	1148.1	40	1386.0
41	1381.6	42	1440.9	43	1426.7	44	1378.6	45	1133.2
46	1154.5	47	1182.9	48	1288.4	49	1241.6	50	1069.6
51	1067.0	52	1069.9	53	1070.5	54	1076.4	55	1104.3
56	1134.1	57	1151.1	58	1165.9	59	1022.1	60	1028.3
61	1032.8	62	1035.0	63	1050.8	64	1082.4	65	1106.2
66	1010.7	67	1015.0	68	1044.4	69	1057.6	70	1089.3
71	1110.3	72	1114.4	73	1123.5	74	1127.3	75	1151.3
76	1176.8	77	929.2	78	989.8	79	1034.2	80	1055.1
81	1086.4	82	1138.8	83	1143.6	84	1145.9	85	979.7
86	996.9	87	1002.4	88	1014.4	89	1033.8	90	1060.3
91	1093.6	92	1121.4	93	1232.3	94	1205.0	95	1296.6

96	989.0	97	1025.9	98	1028.7	99	1031.7	100	1084.7
101	1126.5	102	1153.4	103	1184.9	104	1215.3	105	1218.7
106	1226.1	107	1334.3	108	1341.7	109	1362.4	110	1065.8
111	1061.4	112	1124.1	113	1146.2	114	1191.6	115	1221.5
116	1095.7	117	1096.7	118	1103.6	119	1143.0	120	1170.5
121	1205.9	122	1273.2	123	1349.7	124	1392.8	125	1489.6
126	1136.7	127	1143.0	128	1164.8	129	1194.7	130	1232.7
131	1311.2	132	1512.7	133	1628.5	134	1159.5	135	1169.3
136	1186.3	137	1215.1	138	1255.3	139	1334.0	140	1526.3
141	1668.8	142	1713.2	143	1217.1	144	1245.8	145	1280.3
146	1336.3	147	1401.1	148	1507.8	149	1354.9	150	1375.3
151	1452.9	152	1384.7	153	1446.8	154	1546.2	155	1700.2
156	1777.6	157	1877.0	158	1983.4	159	2126.1	160	1368.0
161	1537.3	162	1596.9	163	1514.3	164	1652.9	165	1627.5
166	1585.7	167	1737.1	168	1738.9	169	1730.3	170	1945.1
171	1867.8	172	2022.5	173	2047.1	174	2237.7	175	2282.8
176	2350.6	177	2360.3	178	2533.8				

LOWER AQUIFER

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	1751.0	2	1693.2	3	1621.8	4	1542.5	5	1495.2
6	1437.3	7	1506.6	8	1532.1	9	1596.0	10	1668.3
11	1418.9	12	1407.5	13	1434.7	14	1484.6	15	1818.7
16	1367.2	17	1364.8	18	1348.4	19	1351.2	20	1404.5
21	1644.6	22	1707.8	23	1666.4	24	1266.7	25	1270.3
26	1230.6	27	1201.9	28	1277.6	29	1339.2	30	1386.3
31	1444.2	32	1517.4	33	1557.3	34	1120.7	35	1120.7
36	1113.8	37	1109.6	38	1107.8	39	1147.7	40	1385.7
41	1379.8	42	1440.2	43	1426.4	44	1379.3	45	1133.5
46	1150.6	47	1184.8	48	1288.6	49	1239.7	50	1049.8
51	1067.4	52	1073.8	53	1076.5	54	1080.6	55	1099.0
56	1132.0	57	1152.2	58	1165.7	59	1044.3	60	1051.5
61	1058.8	62	1062.1	63	1066.5	64	1081.1	65	1102.5
66	1047.3	67	1053.6	68	1061.1	69	1067.2	70	1086.2
71	1103.2	72	1115.8	73	1122.4	74	1127.4	75	1151.5
76	1176.3	77	999.1	78	1018.4	79	1059.0	80	1069.7
81	1086.7	82	1128.4	83	1144.3	84	1144.7	85	1017.9
86	1026.9	87	1036.9	88	1042.6	89	1059.9	90	1075.3
91	1092.8	92	1115.8	93	1233.0	94	1205.1	95	1295.5
96	1017.1	97	1041.3	98	1046.8	99	1049.8	100	1082.5
101	1115.7	102	1145.1	103	1177.2	104	1210.5	105	1218.1
106	1224.7	107	1334.6	108	1341.9	109	1361.9	110	1056.5
111	1064.7	112	1106.9	113	1139.1	114	1188.3	115	1221.4
116	1084.6	117	1086.1	118	1094.2	119	1133.1	120	1163.9
121	1203.4	122	1273.2	123	1349.1	124	1393.4	125	1489.3
126	1135.8	127	1141.5	128	1161.5	129	1190.0	130	1231.8
131	1311.5	132	1511.4	133	1627.6	134	1159.3	135	1169.9
136	1186.8	137	1215.8	138	1255.7	139	1335.0	140	1526.8
141	1667.1	142	1713.9	143	1216.6	144	1245.3	145	1279.8
146	1336.0	147	1400.5	148	1506.7	149	1354.9	150	1375.4

151	1453.3	152	1385.0	153	1447.1	154	1546.6	155	1696.9
156	1778.5	157	1874.3	158	1983.0	159	2125.3	160	1368.2
161	1536.3	162	1596.6	163	1514.2	164	1652.6	165	1628.2
166	1584.9	167	1734.9	168	1739.2	169	1730.0	170	1943.6
171	1867.8	172	2022.8	173	2047.4	174	2237.5	175	2282.7
176	2350.6	177	2360.1	178	2531.9				

TIME STEP 17

ELAPSED TIME .621E+04 DAYS
.149E+06 HOURS
.894E+07 MINUTES
.536E+09 SECONDS

EVAPOTRANSPIRATION DISCHARGE

TOTAL DISCHARGE .844E+01

ELE	VALUE	ELE	VALUE	ELE	VALUE	ELE	VALUE	ELE	VALUE
21	6.056	22	5.242	42	.269	61	.244	62	.808
63	2.631	66	1.340	67	6.098	68	5.809	69	5.181
78	4.460	79	3.622	81	3.267	82	.809	85	.911
86	.483	87	.406	88	.446	103	.731	141	1.452
155	4.617	156	9.266	157	1.402	159	2.889		

COMPUTED WATER LEVELS

ITERATIONS 1
ERROR .0892

UPPER AQUIFER

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	1747.7	2	1689.2	3	1619.8	4	1539.4	5	1493.5
6	1436.2	7	1506.5	8	1531.1	9	1593.2	10	1670.0
11	1419.1	12	1407.0	13	1436.3	14	1485.7	15	1827.6
16	1369.1	17	1365.3	18	1348.8	19	1353.8	20	1406.7
21	1645.1	22	1711.7	23	1672.8	24	1265.6	25	1270.7
26	1231.3	27	1204.7	28	1280.1	29	1342.7	30	1390.5
31	1450.4	32	1522.6	33	1567.1	34	1141.4	35	1138.3
36	1130.7	37	1126.3	38	1117.8	39	1150.6	40	1392.3
41	1388.0	42	1446.0	43	1433.4	44	1386.7	45	1136.3
46	1158.3	47	1187.3	48	1294.5	49	1247.2	50	1071.3

51	1068.5	52	1071.3	53	1072.0	54	1078.0	55	1106.7
56	1137.8	57	1155.1	58	1170.4	59	1023.0	60	1029.2
61	1033.6	62	1035.8	63	1051.7	64	1084.3	65	1108.8
66	1011.3	67	1015.6	68	1045.3	69	1058.7	70	1091.1
71	1112.9	72	1117.3	73	1126.7	74	1130.6	75	1154.3
76	1180.8	77	929.9	78	990.3	79	1035.0	80	1056.3
81	1087.6	82	1141.0	83	1146.1	84	1148.8	85	980.3
86	997.7	87	1003.1	88	1015.2	89	1035.4	90	1062.2
91	1096.0	92	1124.0	93	1237.2	94	1209.8	95	1302.8
96	990.6	97	1027.8	98	1030.6	99	1033.4	100	1087.4
101	1129.9	102	1157.1	103	1187.8	104	1219.5	105	1223.1
106	1230.8	107	1341.3	108	1348.8	109	1370.0	110	1068.4
111	1063.9	112	1127.6	113	1150.1	114	1196.2	115	1226.4
116	1098.8	117	1099.9	118	1106.9	119	1146.9	120	1174.7
121	1210.8	122	1279.0	123	1356.6	124	1400.1	125	1498.3
126	1140.5	127	1147.0	128	1169.0	129	1199.3	130	1237.8
131	1317.5	132	1519.9	133	1634.7	134	1163.6	135	1173.7
136	1190.9	137	1219.9	138	1260.5	139	1340.3	140	1533.1
141	1673.7	142	1720.8	143	1221.8	144	1250.6	145	1285.5
146	1342.3	147	1407.4	148	1514.4	149	1357.7	150	1377.9
151	1455.7	152	1390.2	153	1453.0	154	1552.4	155	1704.4
156	1779.3	157	1879.3	158	1987.1	159	2127.4	160	1370.6
161	1539.8	162	1599.6	163	1517.5	164	1656.1	165	1631.8
166	1590.9	167	1741.0	168	1742.9	169	1734.6	170	1947.7
171	1870.3	172	2024.3	173	2048.9	174	2237.0	175	2281.5
176	2348.7	177	2358.5	178	2531.4				

LOWER AQUIFER

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	1746.2	2	1688.8	3	1617.9	4	1540.0	5	1493.5
6	1436.5	7	1505.6	8	1531.1	9	1593.3	10	1670.1
11	1418.3	12	1407.2	13	1436.3	14	1485.7	15	1827.1
16	1367.5	17	1365.0	18	1348.7	19	1353.8	20	1406.6
21	1645.7	22	1710.3	23	1673.4	24	1267.7	25	1271.4
26	1232.1	27	1204.3	28	1280.5	29	1342.7	30	1390.7
31	1449.8	32	1523.3	33	1565.2	34	1122.6	35	1122.6
36	1115.9	37	1111.7	38	1110.1	39	1150.3	40	1392.1
41	1386.2	42	1445.5	43	1433.1	44	1387.4	45	1136.7
46	1154.2	47	1189.2	48	1294.6	49	1245.2	50	1051.6
51	1069.3	52	1075.8	53	1078.6	54	1082.7	55	1101.5
56	1135.5	57	1156.2	58	1170.2	59	1046.0	60	1053.3
61	1060.7	62	1064.2	63	1068.6	64	1083.5	65	1105.2
66	1049.3	67	1055.6	68	1063.3	69	1069.5	70	1088.6
71	1105.8	72	1118.7	73	1125.5	74	1130.8	75	1154.6
76	1180.3	77	1000.8	78	1020.2	79	1061.3	80	1072.0
81	1089.1	82	1131.0	83	1147.0	84	1147.5	85	1019.8
86	1029.0	87	1039.1	88	1044.8	89	1062.4	90	1077.8
91	1095.4	92	1118.6	93	1237.9	94	1209.8	95	1301.7
96	1019.0	97	1043.7	98	1049.2	99	1052.2	100	1085.3
101	1118.9	102	1148.6	103	1180.8	104	1214.8	105	1222.5

106	1229.4	107	1341.6	108	1349.1	109	1369.5	110	1059.0
111	1067.4	112	1110.2	113	1142.8	114	1192.7	115	1226.2
116	1087.6	117	1089.1	118	1097.3	119	1136.8	120	1168.1
121	1208.2	122	1279.0	123	1355.9	124	1400.8	125	1498.1
126	1139.6	127	1145.4	128	1165.6	129	1194.5	130	1236.9
131	1317.8	132	1518.6	133	1633.8	134	1163.4	135	1174.3
136	1191.3	137	1220.7	138	1261.0	139	1341.3	140	1533.6
141	1672.1	142	1721.5	143	1221.3	144	1250.1	145	1285.0
146	1341.9	147	1406.8	148	1513.3	149	1357.7	150	1378.0
151	1456.0	152	1390.4	153	1453.3	154	1552.8	155	1701.2
156	1780.3	157	1876.7	158	1986.8	159	2126.7	160	1370.9
161	1538.7	162	1599.3	163	1517.5	164	1655.7	165	1632.5
166	1590.1	167	1738.8	168	1743.3	169	1734.2	170	1946.1
171	1870.3	172	2024.5	173	2049.3	174	2236.8	175	2281.5
176	2348.7	177	2358.3	178	2529.4				

TIME STEP 18

ELAPSED TIME .657E+04 DAYS
.158E+06 HOURS
.946E+07 MINUTES
.568E+09 SECONDS

EVAPOTRANSPIRATION DISCHARGE

TOTAL DISCHARGE /.319E+01

ELE	VALUE	ELE	VALUE	ELE	VALUE	ELE	VALUE	ELE	VALUE
21	6.103	22	5.348	42	.440	61	.288	62	.898
63	2.807	66	1.382	67	6.221	68	5.943	69	5.342
78	4.547	79	3.820	81	3.676	82	1.299	85	1.010
86	.549	87	.449	88	.594	103	1.279	104	.281
115	.101	141	1.686	155	4.939	156	9.720	157	1.534
159	2.938								

COMPUTED WATER LEVELS

ITERATIONS 1
ERROR .0932

UPPER AQUIFER

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	1742.3	2	1684.3	3	1617.2	4	1537.3	5	1492.4
6	1435.9	7	1505.6	8	1530.2	9	1592.4	10	1673.3
11	1418.9	12	1406.8	13	1438.1	14	1487.5	15	1833.0
16	1369.2	17	1365.2	18	1348.8	19	1356.3	20	1409.0
21	1645.5	22	1712.5	23	1677.9	24	1266.5	25	1271.5
26	1232.6	27	1207.0	28	1282.8	29	1345.8	30	1394.0
31	1454.3	32	1527.4	33	1574.5	34	1143.1	35	1140.0
36	1132.5	37	1128.1	38	1119.7	39	1152.9	40	1396.8
41	1392.5	42	1449.8	43	1438.7	44	1393.6	45	1138.8
46	1161.2	47	1190.5	48	1298.8	49	1250.9	50	1072.7
51	1069.8	52	1072.6	53	1073.2	54	1079.4	55	1108.7
56	1140.7	57	1158.2	58	1174.3	59	1023.7	60	1029.9
61	1034.2	62	1036.4	63	1052.5	64	1085.8	65	1110.8
66	1011.8	67	1016.1	68	1046.0	69	1059.5	70	1092.7
71	1115.1	72	1119.7	73	1129.5	74	1133.6	75	1157.1
76	1185.6	77	930.6	78	990.8	79	1035.8	80	1057.3
81	1088.5	82	1142.8	83	1148.2	84	1151.3	85	980.9
86	998.3	87	1003.8	88	1016.0	89	1036.8	90	1063.8
91	1097.8	92	1126.0	93	1241.5	94	1214.5	95	1307.9
96	991.9	97	1029.4	98	1032.3	99	1034.9	100	1089.7
101	1132.8	102	1160.1	103	1189.9	104	1222.6	105	1226.4
106	1234.6	107	1347.3	108	1355.1	109	1376.4	110	1070.7
111	1066.1	112	1130.7	113	1153.5	114	1200.0	115	1230.2
116	1101.8	117	1102.8	118	1110.0	119	1150.4	120	1178.6
121	1214.9	122	1283.9	123	1362.2	124	1406.4	125	1506.8
126	1144.3	127	1151.4	128	1173.2	129	1203.6	130	1242.3
131	1323.2	132	1525.9	133	1639.8	134	1168.1	135	1179.6
136	1196.1	137	1224.6	138	1265.0	139	1346.2	140	1539.0
141	1677.6	142	1727.2	143	1228.7	144	1255.4	145	1290.4
146	1348.8	147	1413.7	148	1520.5	149	1359.8	150	1379.7
151	1459.1	152	1396.3	153	1459.0	154	1558.2	155	1707.5
156	1780.7	157	1881.1	158	1989.9	159	2128.1	160	1372.6
161	1544.0	162	1602.1	163	1520.9	164	1660.4	165	1636.5
166	1596.1	167	1744.5	168	1746.6	169	1739.1	170	1949.8
171	1872.7	172	2025.4	173	2050.2	174	2236.3	175	2280.3
176	2346.6	177	2356.6	178	2529.5				

LOWER AQUIFER

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	1740.8	2	1683.9	3	1615.2	4	1537.8	5	1492.4
6	1436.2	7	1504.8	8	1530.2	9	1592.5	10	1673.5
11	1418.1	12	1407.0	13	1438.1	14	1487.5	15	1832.5
16	1367.5	17	1364.9	18	1348.8	19	1356.3	20	1408.9
21	1646.0	22	1711.2	23	1678.4	24	1268.6	25	1272.2
26	1233.4	27	1206.5	28	1283.1	29	1345.8	30	1394.2
31	1453.7	32	1528.0	33	1572.5	34	1124.2	35	1124.3
36	1117.7	37	1113.6	38	1112.0	39	1152.5	40	1396.5
41	1390.6	42	1449.4	43	1438.4	44	1394.3	45	1139.2
46	1157.1	47	1192.4	48	1299.0	49	1248.9	50	1053.2
51	1071.0	52	1077.6	53	1080.4	54	1084.6	55	1103.6
56	1138.4	57	1159.3	58	1174.0	59	1047.5	60	1054.8
61	1062.5	62	1065.9	63	1070.5	64	1085.4	65	1107.5
66	1051.0	67	1057.4	68	1065.2	69	1071.5	70	1090.6
71	1108.0	72	1121.1	73	1128.2	74	1133.7	75	1157.4
76	1185.2	77	1002.3	78	1021.8	79	1063.2	80	1074.0
81	1091.1	82	1133.1	83	1149.2	84	1150.0	85	1021.5
86	1030.8	87	1041.1	88	1046.8	89	1064.5	90	1080.0
91	1097.7	92	1120.9	93	1242.2	94	1214.6	95	1306.8
96	1020.7	97	1045.9	98	1051.4	99	1054.4	100	1087.8
101	1121.7	102	1151.5	103	1183.6	104	1218.0	105	1225.8
106	1233.1	107	1347.6	108	1355.4	109	1375.8	110	1061.3
111	1069.8	112	1113.1	113	1146.0	114	1196.4	115	1230.1
116	1090.4	117	1091.8	118	1100.2	119	1140.2	120	1171.8
121	1212.3	122	1283.9	123	1361.6	124	1407.1	125	1506.6
126	1143.4	127	1149.7	128	1169.8	129	1198.7	130	1241.4
131	1323.5	132	1524.6	133	1638.9	134	1167.9	135	1180.2
136	1196.6	137	1225.4	138	1265.5	139	1347.2	140	1539.5
141	1676.1	142	1727.9	143	1228.2	144	1255.0	145	1289.9
146	1348.4	147	1413.1	148	1519.4	149	1359.9	150	1379.9
151	1459.3	152	1396.6	153	1459.3	154	1558.6	155	1704.4
156	1781.7	157	1878.6	158	1989.6	159	2127.4	160	1372.8
161	1542.9	162	1601.8	163	1520.8	164	1660.0	165	1637.2
166	1595.4	167	1742.3	168	1747.0	169	1738.7	170	1948.2
171	1872.7	172	2025.7	173	2050.5	174	2236.1	175	2280.2
176	2346.6	177	2356.5	178	2527.5				

TIME STEP 19

ELAPSED TIME .694E+04 DAYS
.166E+06 HOURS
.999E+07 MINUTES
.599E+09 SECONDS

EVAPOTRANSPIRATION DISCHARGE

TOTAL DISCHARGE 7.803E+01

ELE	VALUE	ELE	VALUE	ELE	VALUE	ELE	VALUE	ELE	VALUE
21	6.168	22	5.473	42	.566	61	.321	62	.968
63	2.942	66	1.414	67	6.314	68	6.044	69	5.465
78	4.613	79	3.970	81	3.985	82	1.648	85	1.084
86	.598	87	.482	88	.706	103	1.618	104	.468
115	.955	133	.572	141	1.832	155	5.158	156	10.074
157	1.631	159	2.969						

COMPUTED WATER LEVELS

ITERATIONS 1
ERROR .0848

UPPER AQUIFER

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	1737.4	2	1680.1	3	1615.6	4	1535.3	5	1491.1
6	1435.4	7	1504.8	8	1530.2	9	1592.1	10	1675.6
11	1418.5	12	1406.6	13	1440.0	14	1489.0	15	1837.1
16	1369.5	17	1365.4	18	1349.2	19	1358.6	20	1411.0
21	1645.9	22	1713.5	23	1682.7	24	1267.5	25	1272.5
26	1233.9	27	1208.9	28	1285.0	29	1348.3	30	1396.8
31	1457.4	32	1530.9	33	1579.6	34	1144.5	35	1141.4
36	1134.0	37	1129.6	38	1121.2	39	1154.7	40	1400.2
41	1395.9	42	1452.6	43	1442.5	44	1398.6	45	1140.8
46	1163.7	47	1193.4	48	1302.5	49	1254.3	50	1073.9
51	1070.8	52	1073.6	53	1074.2	54	1080.5	55	1110.3
56	1143.0	57	1160.8	58	1177.4	59	1024.4	60	1030.5
61	1034.7	62	1036.9	63	1053.1	64	1087.0	65	1112.5
66	1012.2	67	1016.5	68	1046.5	69	1060.2	70	1093.9
71	1116.8	72	1121.5	73	1131.5	74	1135.7	75	1159.1
76	1188.5	77	931.0	78	991.2	79	1036.3	80	1058.1
81	1089.2	82	1144.1	83	1149.7	84	1153.1	85	981.3
86	998.8	87	1004.2	88	1016.5	89	1037.9	90	1065.0

91	1099.2	92	1127.5	93	1243.9	94	1217.2	95	1311.3
96	993.0	97	1030.7	98	1033.6	99	1036.1	100	1091.5
101	1135.0	102	1162.2	103	1191.2	104	1224.3	105	1228.3
106	1236.8	107	1351.7	108	1359.8	109	1382.3	110	1072.6
111	1067.9	112	1133.2	113	1156.1	114	1202.7	115	1232.1
116	1104.3	117	1105.4	118	1112.5	119	1153.4	120	1181.7
121	1218.2	122	1287.5	123	1366.5	124	1411.0	125	1514.0
126	1148.1	127	1155.2	128	1176.8	129	1207.3	130	1246.2
131	1328.1	132	1530.5	133	1642.6	134	1172.9	135	1184.5
136	1200.3	137	1228.8	138	1269.6	139	1351.7	140	1543.7
141	1680.0	142	1733.5	143	1233.6	144	1259.6	145	1295.5
146	1354.7	147	1419.2	148	1525.6	149	1362.3	150	1382.4
151	1462.9	152	1401.9	153	1464.5	154	1563.2	155	1709.6
156	1781.9	157	1882.4	158	1991.7	159	2128.5	160	1375.2
161	1547.9	162	1604.6	163	1524.7	164	1664.7	165	1640.9
166	1601.4	167	1748.2	168	1750.8	169	1743.7	170	1951.6
171	1875.1	172	2026.7	173	2051.3	174	2235.7	175	2279.1
176	2344.9	177	2355.2	178	2527.9				

LOWER AQUIFER

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	1735.9	2	1679.7	3	1613.6	4	1535.8	5	1491.1
6	1435.7	7	1503.9	8	1530.2	9	1592.1	10	1675.8
11	1417.8	12	1406.7	13	1439.9	14	1489.0	15	1836.6
16	1367.8	17	1365.1	18	1349.1	19	1358.6	20	1411.0
21	1646.4	22	1712.2	23	1683.1	24	1269.6	25	1273.2
26	1234.7	27	1208.5	28	1285.4	29	1348.3	30	1397.0
31	1456.8	32	1531.6	33	1577.6	34	1125.6	35	1125.7
36	1119.2	37	1115.1	38	1113.6	39	1154.3	40	1399.9
41	1394.1	42	1452.3	43	1442.2	44	1399.3	45	1141.3
46	1159.5	47	1195.3	48	1302.6	49	1252.3	50	1054.4
51	1072.3	52	1078.9	53	1081.7	54	1086.0	55	1105.3
56	1140.7	57	1161.9	58	1177.1	59	1048.6	60	1056.0
61	1063.7	62	1067.2	63	1071.9	64	1087.0	65	1109.3
66	1052.3	67	1058.7	68	1066.6	69	1072.9	70	1092.2
71	1109.7	72	1123.0	73	1130.2	74	1135.9	75	1159.4
76	1188.1	77	1003.4	78	1023.0	79	1064.7	80	1075.5
81	1092.6	82	1134.7	83	1150.8	84	1151.8	85	1022.8
86	1032.2	87	1042.5	88	1048.3	89	1066.0	90	1081.6
91	1099.3	92	1122.5	93	1244.6	94	1217.2	95	1310.3
96	1022.0	97	1047.5	98	1053.1	99	1056.0	100	1089.6
101	1123.7	102	1153.5	103	1185.3	104	1219.8	105	1227.7
106	1235.2	107	1351.9	108	1360.0	109	1381.8	110	1063.2
111	1071.7	112	1115.4	113	1148.4	114	1198.9	115	1232.0
116	1092.7	117	1094.1	118	1102.5	119	1142.9	120	1174.7
121	1215.4	122	1287.5	123	1365.7	124	1411.6	125	1513.7
126	1147.2	127	1153.5	128	1173.3	129	1202.3	130	1245.3
131	1328.4	132	1529.1	133	1641.7	134	1172.7	135	1185.0
136	1200.8	137	1229.5	138	1270.1	139	1352.7	140	1544.2
141	1678.5	142	1734.1	143	1233.2	144	1259.2	145	1295.0

146	1354.3	147	1418.6	148	1524.4	149	1362.4	150	1382.5
151	1463.2	152	1402.2	153	1464.8	154	1563.5	155	1706.5
156	1782.9	157	1879.9	158	1991.4	159	2127.8	160	1375.4
161	1546.8	162	1604.3	163	1524.6	164	1664.3	165	1641.6
166	1600.6	167	1746.0	168	1751.2	169	1743.3	170	1950.0
171	1875.1	172	2027.0	173	2051.6	174	2235.5	175	2279.0
176	2344.9	177	2355.0	178	2525.9				

TIME STEP 20

ELAPSED TIME .730E+04 DAYS
.175E+06 HOURS
.105E+08 MINUTES
.631E+09 SECONDS

EVAPOTRANSPIRATION DISCHARGE

TOTAL DISCHARGE 8.201E+01

ELE	VALUE	ELE	VALUE	ELE	VALUE	ELE	VALUE	ELE	VALUE
21	6.220	22	5.613	42	.672	61	.348	62	1.025
63	3.054	66	1.440	67	6.391	68	6.127	69	5.560
78	4.667	79	4.088	81	4.222	82	1.905	83	.089
85	1.146	86	.639	87	.509	88	.797	91	.060
103	1.901	104	.642	105	.012	115	1.651	133	.867
141	1.917	155	5.316	156	10.434	157	1.709	159	2.993

COMPUTED WATER LEVELS

ITERATIONS 1
ERROR .0810

UPPER AQUIFER

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	1732.5	2	1676.3	3	1614.2	4	1534.2	5	1490.3
6	1435.1	7	1503.9	8	1531.1	9	1592.6	10	1676.8
11	1418.2	12	1406.5	13	1442.0	14	1490.7	15	1839.7
16	1369.8	17	1365.7	18	1349.7	19	1360.7	20	1413.0
21	1646.2	22	1714.6	23	1688.3	24	1268.5	25	1273.5
26	1235.1	27	1210.4	28	1286.7	29	1350.2	30	1399.0
31	1460.3	32	1534.2	33	1583.9	34	1145.7	35	1142.6
36	1135.2	37	1130.8	38	1122.5	39	1156.2	40	1403.3

41	1399.0	42	1455.0	43	1445.5	44	1402.2	45	1142.6
46	1165.8	47	1195.8	48	1305.7	49	1257.0	50	1074.8
51	1071.7	52	1074.4	53	1075.1	54	1081.4	55	1111.6
56	1144.9	57	1162.8	58	1180.1	59	1024.8	60	1031.0
61	1035.1	62	1037.3	63	1053.6	64	1087.9	65	1113.8
66	1012.5	67	1016.8	68	1046.9	69	1060.8	70	1094.9
71	1118.2	72	1123.0	73	1133.2	74	1137.5	75	1160.7
76	1191.3	77	931.5	78	991.5	79	1036.7	80	1058.7
81	1089.8	82	1145.1	83	1150.8	84	1154.5	85	981.7
86	999.2	87	1004.7	88	1017.0	89	1038.7	90	1066.0
91	1100.2	92	1128.6	93	1246.3	94	1218.9	95	1312.7
96	993.9	97	1031.8	98	1034.7	99	1037.1	100	1092.9
101	1136.8	102	1164.0	103	1192.3	104	1225.9	105	1230.0
106	1238.9	107	1355.8	108	1364.2	109	1385.6	110	1074.3
111	1069.5	112	1135.3	113	1158.2	114	1204.9	115	1233.6
116	1106.5	117	1107.7	118	1114.8	119	1155.9	120	1184.4
121	1221.1	122	1290.8	123	1370.2	124	1415.6	125	1519.2
126	1152.2	127	1159.0	128	1180.1	129	1210.9	130	1250.2
131	1332.5	132	1533.7	133	1643.9	134	1178.6	135	1189.4
136	1204.3	137	1233.2	138	1275.0	139	1356.8	140	1547.2
141	1681.3	142	1737.6	143	1236.8	144	1262.4	145	1300.5
146	1359.2	147	1423.8	148	1529.6	149	1365.4	150	1386.7
151	1467.6	152	1406.1	153	1469.4	154	1567.8	155	1711.1
156	1783.0	157	1883.5	158	1993.0	159	2128.8	160	1379.5
161	1551.9	162	1607.1	163	1529.9	164	1668.7	165	1645.1
166	1606.8	167	1751.9	168	1754.5	169	1747.0	170	1952.5
171	1877.7	172	2027.6	173	2051.8	174	2235.0	175	2277.9
176	2343.5	177	2354.1	178	2527.2				

LOWER AQUIFER

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	1731.0	2	1675.8	3	1612.3	4	1534.7	5	1490.3
6	1435.4	7	1503.1	8	1531.1	9	1592.7	10	1677.1
11	1417.4	12	1406.7	13	1441.9	14	1490.7	15	1839.2
16	1368.1	17	1365.4	18	1349.6	19	1360.7	20	1412.9
21	1646.8	22	1713.4	23	1688.7	24	1270.6	25	1274.2
26	1236.0	27	1210.0	28	1287.1	29	1350.2	30	1399.2
31	1459.6	32	1534.9	33	1581.9	34	1126.8	35	1126.9
36	1120.4	37	1116.3	38	1114.9	39	1155.8	40	1403.0
41	1397.1	42	1454.8	43	1445.2	44	1403.0	45	1143.0
46	1161.5	47	1197.8	48	1305.8	49	1255.0	50	1055.4
51	1073.4	52	1080.1	53	1082.9	54	1087.2	55	1106.7
56	1142.5	57	1163.9	58	1179.8	59	1049.5	60	1057.0
61	1064.8	62	1068.3	63	1073.0	64	1088.2	65	1110.8
66	1053.3	67	1059.8	68	1067.8	69	1074.1	70	1093.5
71	1111.0	72	1124.5	73	1131.9	74	1137.7	75	1161.0
76	1190.9	77	1004.4	78	1023.9	79	1065.9	80	1076.7
81	1093.8	82	1135.8	83	1152.0	84	1153.2	85	1023.8
86	1033.4	87	1043.7	88	1049.5	89	1067.4	90	1082.9
91	1100.6	92	1123.9	93	1247.1	94	1219.0	95	1311.7

96	1023.1	97	1048.9	98	1054.5	99	1057.4	100	1091.1
101	1125.4	102	1155.2	103	1186.8	104	1221.5	105	1229.5
106	1237.3	107	1355.9	108	1364.4	109	1385.0	110	1064.8
111	1073.3	112	1117.3	113	1150.5	114	1201.1	115	1233.6
116	1094.7	117	1096.2	118	1104.6	119	1145.4	120	1177.4
121	1218.3	122	1290.8	123	1369.5	124	1416.2	125	1518.9
126	1151.2	127	1157.2	128	1176.6	129	1205.7	130	1249.3
131	1332.8	132	1532.4	133	1643.1	134	1178.4	135	1190.0
136	1204.8	137	1234.0	138	1275.5	139	1357.8	140	1547.7
141	1679.9	142	1738.1	143	1236.5	144	1262.0	145	1300.0
146	1358.9	147	1423.3	148	1528.4	149	1365.4	150	1386.8
151	1467.9	152	1406.4	153	1469.7	154	1568.1	155	1708.1
156	1784.1	157	1881.0	158	1992.7	159	2128.1	160	1379.6
161	1550.9	162	1606.8	163	1529.9	164	1668.4	165	1645.8
166	1606.1	167	1749.7	168	1754.9	169	1746.6	170	1950.8
171	1877.7	172	2027.9	173	2052.2	174	2234.7	175	2277.9
176	2343.5	177	2353.9	178	2525.2				

TIME STEP 21

ELAPSED TIME .767E+04 DAYS
.184E+06 HOURS
.110E+08 MINUTES
.662E+09 SECONDS

EVAPOTRANSPIRATION DISCHARGE

TOTAL DISCHARGE 8.540E+01

ELE	VALUE	ELE	VALUE	ELE	VALUE	ELE	VALUE	ELE	VALUE
21	6.272	22	5.717	40	.041	42	.749	61	.369
62	1.068	63	3.134	66	1.459	67	6.447	68	6.186
69	5.631	78	4.707	79	4.176	81	4.382	82	2.045
83	.154	85	1.192	86	.669	87	.529	88	.868
91	.197	102	.043	103	2.064	104	.719	105	.187
115	2.141	132	.242	133	1.181	141	1.996	155	5.443
156	10.615	157	1.763	159	3.017				

COMPUTED WATER LEVELS

ITERATIONS 1
ERROR .0760

UPPER AQUIFER

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	1728.7	2	1673.0	3	1614.1	4	1532.5	5	1489.3
6	1434.8	7	1503.5	8	1532.4	9	1593.3	10	1678.0
11	1418.1	12	1406.5	13	1443.6	14	1492.2	15	1842.1
16	1370.2	17	1366.0	18	1350.1	19	1362.3	20	1414.6
21	1646.6	22	1715.5	23	1691.1	24	1269.2	25	1274.1
26	1236.0	27	1211.7	28	1288.3	29	1352.0	30	1400.9
31	1462.4	32	1536.2	33	1586.7	34	1146.6	35	1143.6
36	1136.2	37	1131.8	38	1123.5	39	1157.4	40	1405.4
41	1401.3	42	1456.7	43	1447.9	44	1405.5	45	1143.9
46	1167.2	47	1197.5	48	1307.9	49	1258.8	50	1075.6
51	1072.3	52	1075.0	53	1075.7	54	1082.1	55	1112.6
56	1146.2	57	1164.2	58	1181.7	59	1025.2	60	1031.3
61	1035.4	62	1037.6	63	1054.0	64	1088.6	65	1114.8
66	1012.8	67	1017.1	68	1047.2	69	1061.1	70	1095.5
71	1119.1	72	1124.0	73	1134.3	74	1138.7	75	1161.4
76	1192.2	77	931.8	78	991.7	79	1037.0	80	1059.1
81	1090.1	82	1145.6	83	1151.3	84	1155.2	85	982.0
86	999.5	87	1005.0	88	1017.3	89	1039.3	90	1066.6
91	1100.8	92	1129.3	93	1247.4	94	1220.3	95	1315.1
96	994.7	97	1032.6	98	1035.6	99	1037.8	100	1094.0
101	1138.1	102	1165.1	103	1192.9	104	1226.6	105	1230.8
106	1239.8	107	1358.6	108	1367.2	109	1389.1	110	1075.6
111	1070.7	112	1136.9	113	1159.9	114	1206.6	115	1234.6
116	1108.3	117	1109.5	118	1116.6	119	1158.0	120	1186.6
121	1223.3	122	1293.1	123	1372.9	124	1418.5	125	1523.8
126	1154.7	127	1161.5	128	1182.7	129	1213.7	130	1253.3
131	1335.8	132	1536.1	133	1645.3	134	1181.3	135	1192.4
136	1207.4	137	1236.6	138	1278.7	139	1360.6	140	1550.0
141	1682.6	142	1740.8	143	1240.8	144	1266.7	145	1304.4
146	1363.3	147	1427.9	148	1533.0	149	1369.6	150	1391.0
151	1472.2	152	1410.7	153	1474.1	154	1571.3	155	1712.3
156	1783.6	157	1884.3	158	1994.1	159	2129.1	160	1383.7
161	1556.0	162	1610.6	163	1534.4	164	1672.6	165	1649.7
166	1611.5	167	1756.0	168	1758.0	169	1750.4	170	1953.8
171	1880.3	172	2028.5	173	2052.5	174	2234.2	175	2277.0
176	2342.5	177	2353.1	178	2526.0				

LOWER AQUIFER

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	1727.2	2	1672.5	3	1612.2	4	1533.0	5	1489.3
6	1435.2	7	1502.6	8	1532.3	9	1593.3	10	1678.2
11	1417.3	12	1406.7	13	1443.5	14	1492.2	15	1841.6
16	1368.5	17	1365.7	18	1350.0	19	1362.3	20	1414.5
21	1647.1	22	1714.2	23	1691.5	24	1271.2	25	1274.8
26	1236.8	27	1211.3	28	1288.7	29	1351.9	30	1401.1
31	1461.7	32	1536.9	33	1584.7	34	1127.7	35	1127.8
36	1121.3	37	1117.3	38	1115.8	39	1157.0	40	1405.1
41	1399.4	42	1456.6	43	1447.6	44	1406.2	45	1144.3
46	1163.0	47	1199.5	48	1308.0	49	1256.8	50	1056.2
51	1074.2	52	1080.9	53	1083.7	54	1088.1	55	1107.7
56	1143.8	57	1165.3	58	1181.4	59	1050.2	60	1057.7
61	1065.6	62	1069.2	63	1073.9	64	1089.1	65	1111.8
66	1054.1	67	1060.6	68	1068.6	69	1075.0	70	1094.3
71	1112.0	72	1125.5	73	1133.0	74	1138.9	75	1161.8
76	1191.8	77	1005.0	78	1024.7	79	1066.7	80	1077.6
81	1094.6	82	1136.5	83	1152.6	84	1153.8	85	1024.6
86	1034.2	87	1044.6	88	1050.4	89	1068.3	90	1083.8
91	1101.6	92	1124.7	93	1248.1	94	1220.4	95	1314.1
96	1024.0	97	1049.9	98	1055.6	99	1058.4	100	1092.3
101	1126.6	102	1156.4	103	1187.6	104	1222.3	105	1230.3
106	1238.2	107	1358.7	108	1367.4	109	1388.6	110	1066.0
111	1074.5	112	1118.8	113	1152.1	114	1202.7	115	1234.7
116	1096.2	117	1097.8	118	1106.1	119	1147.3	120	1179.4
121	1220.5	122	1293.1	123	1372.1	124	1419.1	125	1523.5
126	1153.7	127	1159.8	128	1179.1	129	1208.5	130	1252.3
131	1336.1	132	1534.8	133	1644.6	134	1181.1	135	1193.0
136	1207.9	137	1237.4	138	1279.1	139	1361.6	140	1550.5
141	1681.2	142	1741.3	143	1240.4	144	1266.3	145	1303.9
146	1363.0	147	1427.3	148	1531.8	149	1369.6	150	1391.1
151	1472.5	152	1411.0	153	1474.4	154	1571.6	155	1709.3
156	1784.6	157	1881.8	158	1993.8	159	2128.4	160	1383.9
161	1555.0	162	1610.3	163	1534.4	164	1672.3	165	1650.3
166	1610.8	167	1753.8	168	1758.4	169	1750.0	170	1952.1
171	1880.3	172	2028.7	173	2052.8	174	2233.9	175	2276.9
176	2342.5	177	2352.9	178	2524.1				

TIME STEP 22

ELAPSED TIME .803E+04 DAYS
.193E+06 HOURS
.116E+08 MINUTES
.694E+09 SECONDS

EVAPOTRANSPIRATION DISCHARGE

TOTAL DISCHARGE 8.803E+01

ELE	VALUE	ELE	VALUE	ELE	VALUE	ELE	VALUE	ELE	VALUE
21	6.318	22	5.781	40	.127	42	.794	61	.384
62	1.099	63	3.193	66	1.474	67	6.488	68	6.228
69	5.680	78	4.737	79	4.235	81	4.490	82	2.140
83	.200	85	1.225	86	.691	87	.543	88	.916
91	.285	102	.218	103	2.166	104	.770	105	.309
115	2.493	132	.486	133	1.359	141	2.043	155	5.524
156	10.788	157	1.808	159	3.037				

COMPUTED WATER LEVELS

ITERATIONS 1
ERROR .0760

UPPER AQUIFER

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	1725.6	2	1670.1	3	1614.7	4	1530.8	5	1488.2
6	1434.4	7	1503.3	8	1533.7	9	1593.9	10	1679.1
11	1417.8	12	1406.4	13	1445.0	14	1493.5	15	1844.2
16	1370.4	17	1366.2	18	1350.4	19	1363.6	20	1416.0
21	1646.9	22	1716.0	23	1692.6	24	1269.7	25	1274.7
26	1236.7	27	1212.7	28	1289.5	29	1353.3	30	1402.3
31	1463.6	32	1537.4	33	1588.6	34	1147.3	35	1144.3
36	1136.9	37	1132.5	38	1124.2	39	1158.3	40	1406.3
41	1402.3	42	1457.7	43	1449.5	44	1408.1	45	1144.8
46	1168.4	47	1198.8	48	1309.6	49	1260.3	50	1076.2
51	1072.8	52	1075.5	53	1076.2	54	1082.6	55	1113.3
56	1147.2	57	1165.3	58	1182.8	59	1025.5	60	1031.6
61	1035.6	62	1037.8	63	1054.2	64	1089.1	65	1115.5
66	1012.9	67	1017.2	68	1047.4	69	1061.4	70	1096.0
71	1119.7	72	1124.7	73	1135.1	74	1139.5	75	1162.0
76	1192.9	77	932.0	78	991.9	79	1037.3	80	1059.4
81	1090.4	82	1146.0	83	1151.7	84	1155.7	85	982.2

86	999.7	87	1005.2	88	1017.6	89	1039.8	90	1067.0
91	1101.1	92	1129.7	93	1248.0	94	1221.0	95	1316.4
96	995.2	97	1033.3	98	1036.2	99	1038.4	100	1094.8
101	1139.0	102	1165.7	103	1193.3	104	1227.1	105	1231.3
106	1240.4	107	1360.4	108	1369.0	109	1391.8	110	1076.6
111	1071.6	112	1138.1	113	1161.1	114	1207.8	115	1235.4
116	1109.7	117	1110.8	118	1117.9	119	1159.5	120	1188.2
121	1224.9	122	1294.9	123	1374.8	124	1420.4	125	1527.4
126	1156.6	127	1163.4	128	1184.6	129	1215.7	130	1255.4
131	1338.2	132	1537.2	133	1646.1	134	1183.4	135	1194.6
136	1209.8	137	1239.1	138	1281.4	139	1363.5	140	1551.6
141	1683.4	142	1743.5	143	1243.6	144	1270.2	145	1307.8
146	1366.9	147	1431.0	148	1535.2	149	1373.8	150	1395.2
151	1476.6	152	1415.0	153	1477.8	154	1573.8	155	1713.1
156	1784.1	157	1884.9	158	1995.0	159	2129.4	160	1387.9
161	1560.2	162	1614.4	163	1538.6	164	1676.6	165	1654.1
166	1616.0	167	1760.2	168	1761.8	169	1754.0	170	1955.1
171	1882.7	172	2029.4	173	2053.2	174	2233.7	175	2276.3
176	2341.6	177	2352.2	178	2524.8				

LOWER AQUIFER

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	1724.1	2	1669.7	3	1612.8	4	1531.2	5	1488.2
6	1434.7	7	1502.4	8	1533.7	9	1594.0	10	1679.3
11	1417.1	12	1406.6	13	1444.9	14	1493.5	15	1843.6
16	1368.7	17	1365.9	18	1350.3	19	1363.7	20	1415.9
21	1647.4	22	1714.8	23	1693.0	24	1271.8	25	1275.4
26	1237.5	27	1212.3	28	1289.9	29	1353.3	30	1402.5
31	1462.9	32	1538.0	33	1586.6	34	1128.4	35	1128.5
36	1122.0	37	1118.0	38	1116.6	39	1157.9	40	1406.0
41	1400.4	42	1457.6	43	1449.1	44	1408.8	45	1145.3
46	1164.0	47	1200.8	48	1309.7	49	1258.3	50	1056.8
51	1074.8	52	1081.5	53	1084.3	54	1088.7	55	1108.4
56	1144.8	57	1166.4	58	1182.5	59	1050.7	60	1058.3
61	1066.1	62	1069.7	63	1074.5	64	1089.8	65	1112.6
66	1054.7	67	1061.2	68	1069.2	69	1075.6	70	1095.0
71	1112.6	72	1126.2	73	1133.7	74	1139.7	75	1162.3
76	1192.4	77	1005.5	78	1025.2	79	1067.3	80	1078.2
81	1095.2	82	1137.0	83	1153.1	84	1154.4	85	1025.2
86	1034.8	87	1045.2	88	1051.0	89	1069.0	90	1084.5
91	1102.2	92	1125.3	93	1248.7	94	1221.1	95	1315.3
96	1024.6	97	1050.6	98	1056.3	99	1059.1	100	1093.1
101	1127.5	102	1157.1	103	1188.2	104	1222.8	105	1230.8
106	1238.8	107	1360.5	108	1369.2	109	1391.2	110	1066.9
111	1075.4	112	1119.8	113	1153.2	114	1203.9	115	1235.5
116	1097.3	117	1098.9	118	1107.3	119	1148.7	120	1180.9
121	1222.1	122	1294.9	123	1374.0	124	1421.0	125	1527.1
126	1155.5	127	1161.6	128	1181.0	129	1210.4	130	1254.4
131	1338.5	132	1535.9	133	1645.4	134	1183.2	135	1195.2
136	1210.3	137	1239.9	138	1281.8	139	1364.6	140	1552.2

141	1682.0	142	1744.0	143	1243.2	144	1269.8	145	1307.3
146	1366.5	147	1430.4	148	1534.0	149	1373.9	150	1395.3
151	1476.9	152	1415.2	153	1478.1	154	1574.1	155	1710.1
156	1785.2	157	1882.4	158	1994.7	159	2128.7	160	1388.1
161	1559.3	162	1614.1	163	1538.6	164	1676.3	165	1654.8
166	1615.3	167	1758.1	168	1762.2	169	1753.6	170	1953.4
171	1882.7	172	2029.7	173	2053.5	174	2233.5	175	2276.2
176	2341.6	177	2352.0	178	2522.9				

TIME STEP 23

ELAPSED TIME .840E+04 DAYS
.201E+06 HOURS
.121E+08 MINUTES
.725E+09 SECONDS

EVAPOTRANSPIRATION DISCHARGE

TOTAL DISCHARGE 9.004E+01

ELE	VALUE	ELE	VALUE	ELE	VALUE	ELE	VALUE	ELE	VALUE
21	6.352	22	5.830	40	.186	42	.823	61	.395
62	1.123	63	3.237	66	1.484	67	6.519	68	6.259
69	5.716	78	4.758	79	4.278	81	4.570	82	2.209
83	.233	85	1.249	86	.706	87	.554	88	.950
89	.011	91	.348	102	.343	103	2.239	104	.805
105	.391	108	.050	115	2.742	132	.676	133	1.505
141	2.081	155	5.590	156	10.925	157	1.847	159	3.055

COMPUTED WATER LEVELS

ITERATIONS 1
ERROR .0765

UPPER AQUIFER

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	1722.9	2	1667.6	3	1615.6	4	1529.1	5	1487.0
6	1433.9	7	1503.0	8	1535.0	9	1594.7	10	1680.1
11	1417.4	12	1406.1	13	1446.1	14	1494.6	15	1845.9
16	1370.5	17	1366.3	18	1350.5	19	1364.7	20	1417.1
21	1647.1	22	1716.4	23	1693.5	24	1270.1	25	1275.1
26	1237.2	27	1213.4	28	1290.5	29	1354.4	30	1403.3

31	1464.5	32	1538.2	33	1589.7	34	1147.9	35	1144.9
36	1137.4	37	1133.1	38	1124.8	39	1159.0	40	1406.9
41	1403.1	42	1458.4	43	1450.5	44	1409.6	45	1145.5
46	1169.2	47	1199.7	48	1310.7	49	1261.4	50	1076.6
51	1073.2	52	1075.8	53	1076.5	54	1083.0	55	1113.9
56	1147.9	57	1166.1	58	1183.7	59	1025.7	60	1031.8
61	1035.8	62	1038.0	63	1054.4	64	1089.5	65	1116.0
66	1013.1	67	1017.4	68	1047.6	69	1061.6	70	1096.4
71	1120.2	72	1125.2	73	1135.7	74	1140.1	75	1162.4
76	1193.4	77	932.2	78	992.0	79	1037.4	80	1059.6
81	1090.6	82	1146.2	83	1152.0	84	1156.1	85	982.3
86	999.8	87	1005.3	88	1017.7	89	1040.1	90	1067.3
91	1101.4	92	1130.0	93	1248.5	94	1221.5	95	1317.1
96	995.5	97	1033.7	98	1036.6	99	1038.7	100	1095.3
101	1139.6	102	1166.1	103	1193.6	104	1227.4	105	1231.6
106	1240.9	107	1361.6	108	1370.2	109	1393.6	110	1077.3
111	1072.2	112	1138.9	113	1162.0	114	1208.7	115	1235.9
116	1110.7	117	1111.8	118	1118.9	119	1160.6	120	1189.4
121	1226.1	122	1296.2	123	1376.1	124	1421.7	125	1530.2
126	1158.1	127	1164.9	128	1186.1	129	1217.3	130	1257.1
131	1340.1	132	1538.1	133	1646.7	134	1185.1	135	1196.3
136	1211.6	137	1241.1	138	1283.5	139	1365.9	140	1552.9
141	1684.0	142	1745.7	143	1245.8	144	1272.9	145	1310.6
146	1369.8	147	1433.6	148	1537.0	149	1377.8	150	1399.3
151	1480.9	152	1418.8	153	1481.0	154	1575.8	155	1713.7
156	1784.5	157	1885.4	158	1995.8	159	2129.6	160	1392.0
161	1564.5	162	1618.4	163	1542.7	164	1680.6	165	1658.4
166	1620.0	167	1764.5	168	1765.6	169	1757.4	170	1956.3
171	1885.1	172	2030.3	173	2053.9	174	2233.3	175	2275.8
176	2340.9	177	2351.5	178	2523.7				

LOWER AQUIFER

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	1721.4	2	1667.2	3	1613.7	4	1529.5	5	1487.0
6	1434.2	7	1502.1	8	1535.0	9	1594.8	10	1680.4
11	1416.7	12	1406.3	13	1446.1	14	1494.7	15	1845.4
16	1368.8	17	1366.0	18	1350.4	19	1364.8	20	1417.0
21	1647.7	22	1715.2	23	1693.9	24	1272.2	25	1275.7
26	1238.0	27	1213.0	28	1290.9	29	1354.4	30	1403.5
31	1463.8	32	1538.8	33	1587.8	34	1129.0	35	1129.1
36	1122.6	37	1118.5	38	1117.1	39	1158.6	40	1406.7
41	1401.1	42	1458.3	43	1450.1	44	1410.3	45	1146.0
46	1164.8	47	1201.7	48	1310.8	49	1259.4	50	1057.2
51	1075.2	52	1082.0	53	1084.8	54	1089.2	55	1109.0
56	1145.5	57	1167.2	58	1183.4	59	1051.1	60	1058.7
61	1066.6	62	1070.2	63	1074.9	64	1090.2	65	1113.1
66	1055.1	67	1061.6	68	1069.7	69	1076.0	70	1095.4
71	1113.1	72	1126.7	73	1134.3	74	1140.3	75	1162.7
76	1193.0	77	1005.9	78	1025.6	79	1067.8	80	1078.6
81	1095.6	82	1137.3	83	1153.4	84	1154.7	85	1025.6

86	1035.3	87	1045.6	88	1051.5	89	1069.5	90	1085.0
91	1102.7	92	1125.7	93	1249.2	94	1221.6	95	1316.1
96	1025.0	97	1051.2	98	1056.9	99	1059.7	100	1093.7
101	1128.1	102	1157.7	103	1188.6	104	1223.2	105	1231.1
106	1239.2	107	1361.7	108	1370.5	109	1393.0	110	1067.6
111	1076.0	112	1120.5	113	1154.0	114	1204.7	115	1236.1
116	1098.2	117	1099.7	118	1108.1	119	1149.7	120	1182.1
121	1223.2	122	1296.2	123	1375.3	124	1422.3	125	1529.9
126	1157.0	127	1163.1	128	1182.4	129	1212.0	130	1256.1
131	1340.4	132	1536.8	133	1646.1	134	1184.9	135	1196.9
136	1212.1	137	1241.9	138	1284.0	139	1366.9	140	1553.5
141	1682.7	142	1746.2	143	1245.4	144	1272.5	145	1310.0
146	1369.4	147	1433.0	148	1535.8	149	1377.9	150	1399.3
151	1481.1	152	1419.0	153	1481.3	154	1576.1	155	1710.8
156	1785.6	157	1883.0	158	1995.5	159	2128.9	160	1392.2
161	1563.6	162	1618.1	163	1542.7	164	1680.3	165	1659.1
166	1619.3	167	1762.3	168	1766.0	169	1757.1	170	1954.7
171	1885.1	172	2030.6	173	2054.2	174	2233.1	175	2275.7
176	2340.9	177	2351.3	178	2521.8				

TIME STEP 24

ELAPSED TIME .876E+04 DAYS
.210E+06 HOURS
.126E+08 MINUTES
.757E+09 SECONDS

EVAPOTRANSPIRATION DISCHARGE

TOTAL DISCHARGE 9.159E+01

ELE	VALUE	ELE	VALUE	ELE	VALUE	ELE	VALUE	ELE	VALUE
21	6.380	22	5.867	40	.229	42	.844	61	.403
62	1.140	63	3.269	66	1.492	67	6.540	68	6.281
69	5.740	78	4.773	79	4.307	81	4.624	82	2.254
83	.254	85	1.266	86	.717	87	.561	88	.973
89	.040	91	.386	92	.034	102	.429	103	2.284
104	.827	105	.441	108	.153	115	2.896	132	.820
133	1.623	141	2.112	155	5.642	156	11.043	157	1.880
159	3.071								

COMPUTED WATER LEVELS

ITERATIONS 1
ERROR .0757

UPPER AQUIFER

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	1720.5	2	1665.4	3	1616.7	4	1527.5	5	1485.9
6	1433.3	7	1502.7	8	1536.2	9	1595.7	10	1681.1
11	1416.9	12	1405.8	13	1447.1	14	1495.7	15	1847.4
16	1370.4	17	1366.2	18	1350.4	19	1365.6	20	1418.1
21	1647.3	22	1716.7	23	1694.2	24	1270.4	25	1275.3
26	1237.5	27	1214.0	28	1291.3	29	1355.3	30	1404.1
31	1465.1	32	1538.7	33	1590.5	34	1148.3	35	1145.3
36	1137.9	37	1133.5	38	1125.2	39	1159.5	40	1407.4
41	1403.6	42	1458.8	43	1451.1	44	1410.6	45	1146.0
46	1169.7	47	1200.3	48	1311.4	49	1262.2	50	1076.9
51	1073.5	52	1076.1	53	1076.8	54	1083.3	55	1114.3
56	1148.4	57	1166.7	58	1184.3	59	1025.9	60	1031.9
61	1035.9	62	1038.1	63	1054.6	64	1089.8	65	1116.4
66	1013.2	67	1017.4	68	1047.7	69	1061.8	70	1096.6
71	1120.6	72	1125.5	73	1136.1	74	1140.5	75	1162.6
76	1193.7	77	932.3	78	992.1	79	1037.5	80	1059.8
81	1090.7	82	1146.4	83	1152.2	84	1156.4	85	982.4
86	999.9	87	1005.4	88	1017.8	89	1040.2	90	1067.5
91	1101.5	92	1130.1	93	1248.7	94	1221.8	95	1317.6
96	995.8	97	1034.0	98	1037.0	99	1039.0	100	1095.7
101	1140.0	102	1166.4	103	1193.8	104	1227.6	105	1231.8
106	1241.1	107	1362.1	108	1370.6	109	1394.7	110	1077.9
111	1072.7	112	1139.5	113	1162.6	114	1209.3	115	1236.3
116	1111.4	117	1112.6	118	1119.6	119	1161.5	120	1190.3
121	1227.0	122	1297.1	123	1376.9	124	1422.5	125	1532.4
126	1159.2	127	1166.0	128	1187.2	129	1218.5	130	1258.4
131	1341.5	132	1538.8	133	1647.3	134	1186.4	135	1197.7
136	1213.0	137	1242.7	138	1285.2	139	1367.7	140	1553.9
141	1684.5	142	1747.4	143	1247.6	144	1275.1	145	1312.8
146	1372.1	147	1435.7	148	1538.5	149	1381.6	150	1403.1
151	1485.0	152	1422.1	153	1483.7	154	1577.5	155	1714.2
156	1784.9	157	1885.9	158	1996.5	159	2129.8	160	1395.9
161	1568.8	162	1622.5	163	1546.7	164	1684.7	165	1662.5
166	1623.6	167	1768.6	168	1769.2	169	1760.6	170	1957.6
171	1887.3	172	2031.3	173	2054.6	174	2233.1	175	2275.4
176	2340.3	177	2350.8	178	2522.7				

LOWER AQUIFER

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	1719.0	2	1665.0	3	1614.8	4	1528.0	5	1485.9
6	1433.6	7	1501.8	8	1536.2	9	1595.7	10	1681.4
11	1416.1	12	1405.9	13	1447.1	14	1495.7	15	1846.9
16	1368.8	17	1365.8	18	1350.4	19	1365.7	20	1418.0
21	1647.9	22	1715.5	23	1694.6	24	1272.4	25	1276.0
26	1238.4	27	1213.6	28	1291.6	29	1355.2	30	1404.3
31	1464.5	32	1539.3	33	1588.5	34	1129.4	35	1129.4
36	1123.0	37	1118.9	38	1117.5	39	1159.1	40	1407.1
41	1401.7	42	1458.8	43	1450.8	44	1411.3	45	1146.5
46	1165.4	47	1202.3	48	1311.5	49	1260.1	50	1057.6
51	1075.5	52	1082.3	53	1085.2	54	1089.6	55	1109.4
56	1146.0	57	1167.8	58	1184.0	59	1051.3	60	1059.0
61	1066.9	62	1070.5	63	1075.3	64	1090.6	65	1113.5
66	1055.4	67	1061.9	68	1070.0	69	1076.4	70	1095.8
71	1113.4	72	1127.1	73	1134.7	74	1140.8	75	1163.0
76	1193.3	77	1006.2	78	1025.9	79	1068.1	80	1079.0
81	1095.9	82	1137.5	83	1153.6	84	1155.0	85	1025.9
86	1035.6	87	1046.0	88	1051.8	89	1069.8	90	1085.3
91	1103.0	92	1126.0	93	1249.5	94	1221.9	95	1316.5
96	1025.3	97	1051.6	98	1057.3	99	1060.0	100	1094.1
101	1128.6	102	1158.1	103	1188.8	104	1223.4	105	1231.4
106	1239.5	107	1362.2	108	1370.9	109	1394.1	110	1068.1
111	1076.5	112	1121.1	113	1154.6	114	1205.3	115	1236.4
116	1098.8	117	1100.3	118	1108.7	119	1150.5	120	1182.9
121	1224.1	122	1297.1	123	1376.1	124	1423.1	125	1532.0
126	1158.1	127	1164.2	128	1183.5	129	1213.1	130	1257.4
131	1341.8	132	1537.5	133	1646.6	134	1186.2	135	1198.2
136	1213.6	137	1243.5	138	1285.7	139	1368.7	140	1554.6
141	1683.2	142	1747.9	143	1247.2	144	1274.7	145	1312.2
146	1371.7	147	1435.1	148	1537.2	149	1381.7	150	1403.2
151	1485.2	152	1422.4	153	1484.0	154	1577.8	155	1711.3
156	1786.0	157	1883.4	158	1996.2	159	2129.1	160	1396.0
161	1567.8	162	1622.2	163	1546.7	164	1684.4	165	1663.2
166	1622.9	167	1766.4	168	1769.6	169	1760.2	170	1955.9
171	1887.3	172	2031.6	173	2055.0	174	2232.9	175	2275.3
176	2340.3	177	2350.7	178	2520.7				

TIME STEP 25

ELAPSED TIME .913E+04 DAYS
.219E+06 HOURS
.131E+08 MINUTES
.788E+09 SECONDS

EVAPOTRANSPIRATION DISCHARGE

TOTAL DISCHARGE 9.279E+01

ELE	VALUE	ELE	VALUE	ELE	VALUE	ELE	VALUE	ELE	VALUE
21	6.402	22	5.895	40	.260	42	.859	61	.409
62	1.152	63	3.292	66	1.497	67	6.556	68	6.296
69	5.758	78	4.784	79	4.328	81	4.662	82	2.286
83	.270	85	1.278	86	.725	87	.566	88	.990
89	.063	91	.415	92	.061	102	.494	103	2.319
104	.844	105	.481	108	.241	115	3.015	132	.928
133	1.708	141	2.135	155	5.685	156	11.148	157	1.909
159	3.084								

COMPUTED WATER LEVELS

ITERATIONS 1
ERROR .0745

UPPER AQUIFER

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	1718.4	2	1663.4	3	1617.8	4	1526.1	5	1484.8
6	1432.7	7	1502.3	8	1537.3	9	1596.6	10	1682.1
11	1416.3	12	1405.3	13	1448.0	14	1496.6	15	1848.7
16	1370.2	17	1365.9	18	1350.3	19	1366.4	20	1418.9
21	1647.4	22	1716.9	23	1694.7	24	1270.5	25	1275.4
26	1237.8	27	1214.5	28	1291.9	29	1355.9	30	1404.7
31	1465.6	32	1539.1	33	1591.0	34	1148.6	35	1145.5
36	1138.2	37	1133.8	38	1125.5	39	1159.9	40	1407.7
41	1404.0	42	1459.2	43	1451.6	44	1411.2	45	1146.4
46	1170.1	47	1200.8	48	1311.9	49	1262.7	50	1077.2
51	1073.7	52	1076.3	53	1077.0	54	1083.5	55	1114.5
56	1148.8	57	1167.1	58	1184.7	59	1026.0	60	1032.1
61	1036.0	62	1038.2	63	1054.7	64	1090.0	65	1116.7
66	1013.2	67	1017.5	68	1047.8	69	1061.9	70	1096.8
71	1120.8	72	1125.8	73	1136.4	74	1140.9	75	1162.8
76	1194.1	77	932.3	78	992.2	79	1037.6	80	1059.9

81	1090.8	82	1146.5	83	1152.3	84	1156.6	85	982.5
86	1000.0	87	1005.5	88	1017.9	89	1040.3	90	1067.6
91	1101.6	92	1130.2	93	1248.9	94	1222.0	95	1317.8
96	996.0	97	1034.2	98	1037.2	99	1039.2	100	1096.0
101	1140.3	102	1166.6	103	1193.9	104	1227.7	105	1232.0
106	1241.3	107	1362.5	108	1371.0	109	1395.2	110	1078.3
111	1073.0	112	1140.0	113	1163.1	114	1209.8	115	1236.5
116	1112.0	117	1113.2	118	1120.2	119	1162.1	120	1191.0
121	1227.7	122	1297.8	123	1377.5	124	1423.1	125	1533.7
126	1160.1	127	1166.9	128	1188.1	129	1219.5	130	1259.4
131	1342.7	132	1539.3	133	1647.7	134	1187.5	135	1198.8
136	1214.2	137	1244.0	138	1286.6	139	1369.2	140	1554.7
141	1684.9	142	1748.8	143	1249.1	144	1277.0	145	1314.6
146	1374.0	147	1437.4	148	1539.6	149	1385.3	150	1406.9
151	1489.0	152	1425.1	153	1486.1	154	1578.9	155	1714.6
156	1785.2	157	1886.3	158	1997.2	159	2130.0	160	1399.6
161	1572.9	162	1626.7	163	1550.7	164	1688.7	165	1666.4
166	1626.9	167	1772.6	168	1772.5	169	1763.5	170	1958.8
171	1889.5	172	2032.3	173	2055.4	174	2233.1	175	2275.1
176	2339.8	177	2350.4	178	2521.8				

LOWER AQUIFER

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	1716.9	2	1663.0	3	1615.9	4	1526.6	5	1484.8
6	1433.0	7	1501.4	8	1537.3	9	1596.7	10	1682.3
11	1415.5	12	1405.5	13	1448.0	14	1496.6	15	1848.2
16	1368.6	17	1365.6	18	1350.2	19	1366.4	20	1418.8
21	1648.0	22	1715.7	23	1695.1	24	1272.5	25	1276.1
26	1238.6	27	1214.1	28	1292.2	29	1355.9	30	1404.9
31	1465.0	32	1539.7	33	1589.1	34	1129.7	35	1129.7
36	1123.3	37	1119.2	38	1117.8	39	1159.5	40	1407.5
41	1402.1	42	1459.1	43	1451.3	44	1412.0	45	1146.9
46	1165.8	47	1202.8	48	1312.0	49	1260.7	50	1057.8
51	1075.8	52	1082.5	53	1085.4	54	1089.8	55	1109.7
56	1146.4	57	1168.2	58	1184.4	59	1051.5	60	1059.2
61	1067.1	62	1070.7	63	1075.5	64	1090.8	65	1113.8
66	1055.6	67	1062.2	68	1070.2	69	1076.6	70	1096.0
71	1113.6	72	1127.3	73	1135.0	74	1141.1	75	1163.2
76	1193.6	77	1006.3	78	1026.1	79	1068.4	80	1079.2
81	1096.1	82	1137.7	83	1153.7	84	1155.1	85	1026.1
86	1035.8	87	1046.2	88	1052.1	89	1070.1	90	1085.6
91	1103.3	92	1126.2	93	1249.7	94	1222.1	95	1316.7
96	1025.6	97	1051.9	98	1057.6	99	1060.3	100	1094.4
101	1128.9	102	1158.4	103	1189.0	104	1223.6	105	1231.5
106	1239.7	107	1362.6	108	1371.3	109	1394.6	110	1068.4
111	1076.8	112	1121.5	113	1155.1	114	1205.8	115	1236.7
116	1099.3	117	1100.8	118	1109.2	119	1151.1	120	1183.6
121	1224.8	122	1297.7	123	1376.7	124	1423.6	125	1533.4
126	1159.0	127	1165.1	128	1184.4	129	1214.1	130	1258.4
131	1342.9	132	1538.0	133	1647.0	134	1187.4	135	1199.4

136	1214.7	137	1244.8	138	1287.1	139	1370.3	140	1555.4
141	1683.6	142	1749.2	143	1248.7	144	1276.5	145	1314.0
146	1373.6	147	1436.8	148	1538.4	149	1385.3	150	1407.0
151	1489.2	152	1425.3	153	1486.4	154	1579.2	155	1711.7
156	1786.4	157	1883.9	158	1996.8	159	2129.3	160	1399.8
161	1571.9	162	1626.4	163	1550.6	164	1688.4	165	1667.1
166	1626.1	167	1770.4	168	1773.0	169	1763.1	170	1957.1
171	1889.5	172	2032.6	173	2055.7	174	2232.8	175	2275.0
176	2339.9	177	2350.2	178	2519.9				

TIME STEP 26

ELAPSED TIME .949E+04 DAYS
.228E+06 HOURS
.137E+08 MINUTES
.820E+09 SECONDS

EVAPOTRANSPIRATION DISCHARGE

TOTAL DISCHARGE 9.376E+01

ELE	VALUE	ELE	VALUE	ELE	VALUE	ELE	VALUE	ELE	VALUE
21	6.420	22	5.917	40	.284	42	.870	61	.413
62	1.161	63	3.309	66	1.501	67	6.568	68	6.308
69	5.772	78	4.793	79	4.343	81	4.691	82	2.310
83	.282	85	1.287	86	.731	87	.570	88	1.003
89	.081	91	.437	92	.081	102	.545	103	2.345
104	.857	105	.510	108	.308	115	3.108	132	1.012
133	1.772	140	.024	141	2.154	155	5.719	156	11.239
157	1.934	159	3.096						

COMPUTED WATER LEVELS

ITERATIONS 1
ERROR .0728

UPPER AQUIFER

NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	1716.4	2	1661.6	3	1618.9	4	1524.8	5	1483.8
6	1432.1	7	1501.9	8	1538.4	9	1597.6	10	1683.0
11	1415.7	12	1404.9	13	1448.8	14	1497.5	15	1849.7
16	1370.0	17	1365.7	18	1350.1	19	1367.0	20	1419.6
21	1647.6	22	1717.1	23	1695.1	24	1270.5	25	1275.4
26	1237.9	27	1214.8	28	1292.4	29	1356.5	30	1405.2
31	1466.0	32	1539.4	33	1591.4	34	1148.8	35	1145.7
36	1138.4	37	1134.0	38	1125.7	39	1160.2	40	1407.9
41	1404.2	42	1459.4	43	1451.9	44	1411.7	45	1146.7
46	1170.4	47	1201.1	48	1312.2	49	1263.1	50	1077.3
51	1073.8	52	1076.4	53	1077.1	54	1083.6	55	1114.7
56	1149.1	57	1167.4	58	1185.0	59	1026.1	60	1032.1
61	1036.0	62	1038.3	63	1054.8	64	1090.1	65	1116.8
66	1013.3	67	1017.6	68	1047.9	69	1061.9	70	1097.0
71	1121.0	72	1126.0	73	1136.6	74	1141.1	75	1163.0
76	1194.3	77	932.4	78	992.2	79	1037.6	80	1060.0
81	1090.9	82	1146.6	83	1152.4	84	1156.7	85	982.5
86	1000.1	87	1005.6	88	1018.0	89	1040.4	90	1067.7
91	1101.7	92	1130.3	93	1249.1	94	1222.2	95	1318.0
96	996.1	97	1034.4	98	1037.4	99	1039.3	100	1096.2
101	1140.6	102	1166.8	103	1194.0	104	1227.9	105	1232.1
106	1241.4	107	1362.8	108	1371.2	109	1395.6	110	1078.6
111	1073.3	112	1140.4	113	1163.5	114	1210.1	115	1236.7
116	1112.4	117	1113.6	118	1120.6	119	1162.7	120	1191.6
121	1228.3	122	1298.3	123	1378.0	124	1423.5	125	1534.6
126	1160.9	127	1167.7	128	1188.9	129	1220.3	130	1260.3
131	1343.6	132	1539.7	133	1647.9	134	1188.4	135	1199.7
136	1215.2	137	1245.0	138	1287.8	139	1370.5	140	1555.4
141	1685.2	142	1749.6	143	1250.4	144	1278.5	145	1316.1
146	1375.7	147	1438.9	148	1540.6	149	1388.8	150	1410.5
151	1492.9	152	1427.7	153	1486.1	154	1580.1	155	1715.0
156	1785.5	157	1886.6	158	1997.7	159	2130.1	160	1403.3
161	1576.9	162	1630.9	163	1554.5	164	1692.7	165	1670.1
166	1629.8	167	1776.3	168	1775.6	169	1766.1	170	1959.8
171	1891.5	172	2033.2	173	2056.1	174	2233.1	175	2274.9
176	2339.5	177	2350.0	178	2521.0				

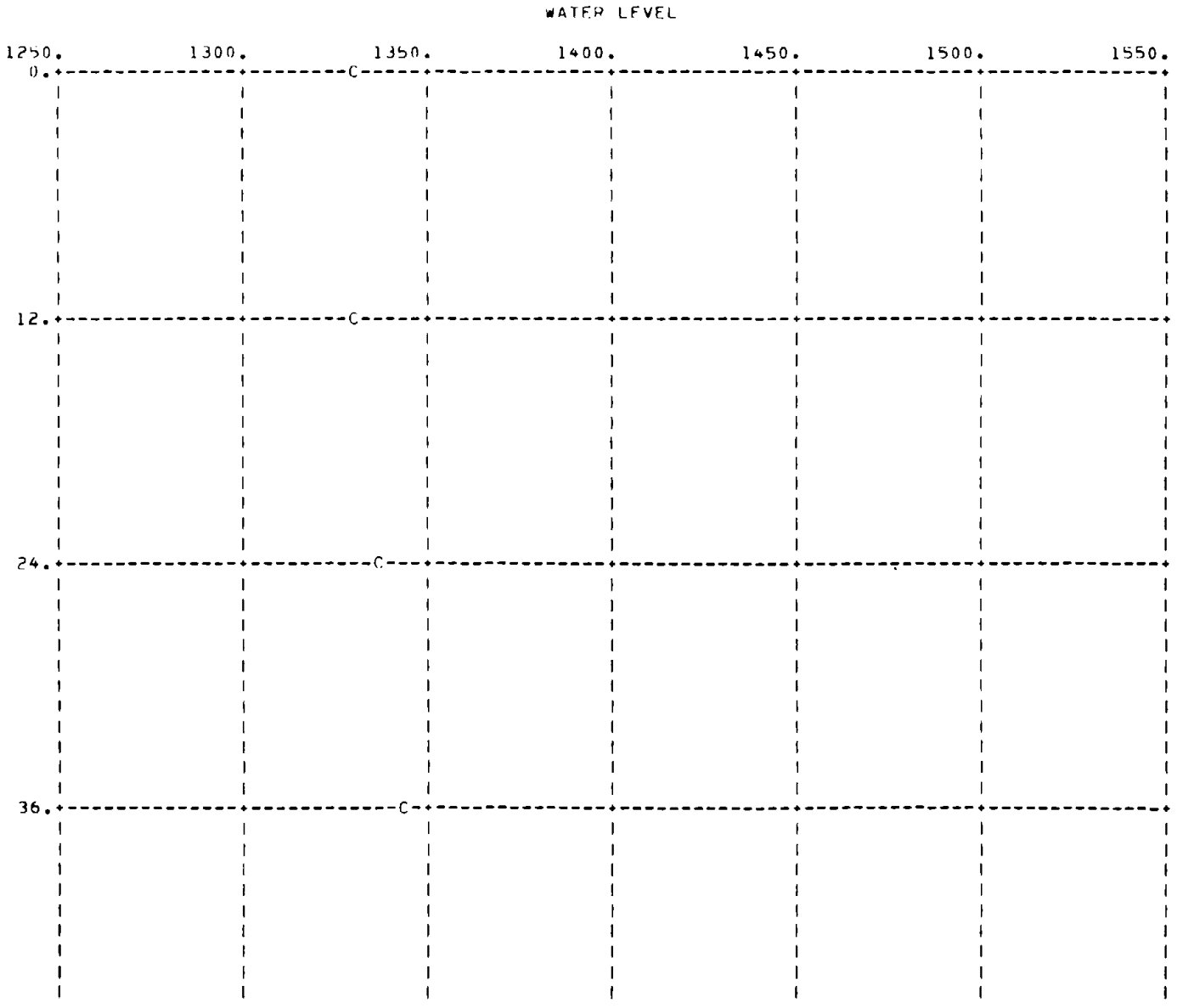
LOWER AQUIFER

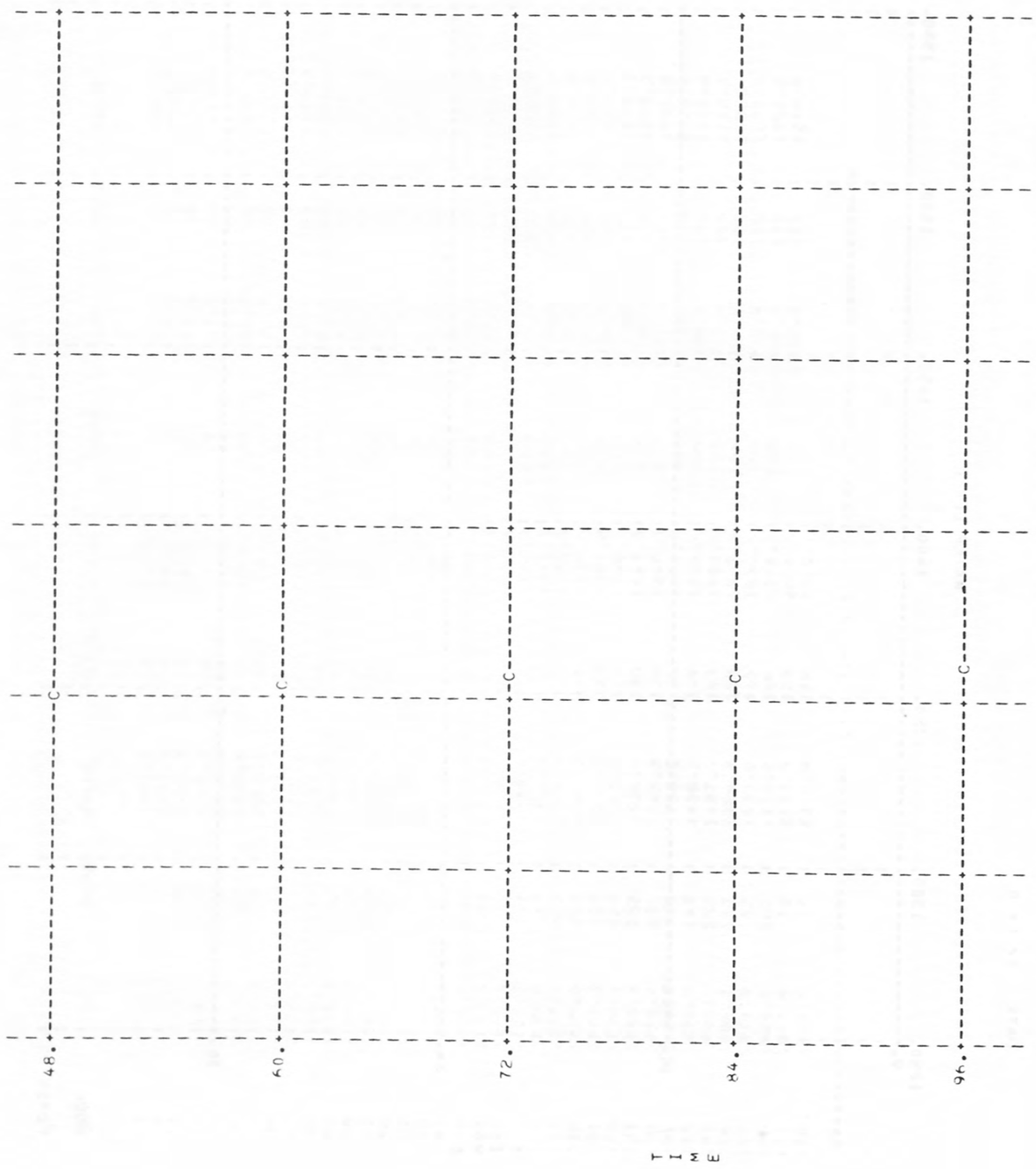
NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE	NODE	VALUE
1	1714.9	2	1661.2	3	1617.0	4	1525.3	5	1483.9
6	1432.4	7	1501.0	8	1538.4	9	1597.7	10	1683.3
11	1414.9	12	1405.0	13	1448.7	14	1497.5	15	1849.2
16	1368.3	17	1365.3	18	1350.0	19	1367.0	20	1419.5
21	1648.1	22	1715.9	23	1695.5	24	1272.5	25	1276.1
26	1238.7	27	1214.4	28	1292.7	29	1356.5	30	1405.4
31	1465.4	32	1540.1	33	1589.5	34	1129.9	35	1129.9
36	1123.5	37	1119.5	38	1118.1	39	1159.8	40	1407.7
41	1402.3	42	1459.4	43	1451.6	44	1412.4	45	1147.2
46	1166.1	47	1203.1	48	1312.3	49	1261.0	50	1058.0
51	1075.9	52	1082.7	53	1085.6	54	1090.0	55	1109.9
56	1146.7	57	1168.5	58	1184.7	59	1051.7	60	1059.3
61	1067.3	62	1070.9	63	1075.7	64	1091.0	65	1114.0
66	1055.8	67	1062.3	68	1070.4	69	1076.8	70	1096.2
71	1113.8	72	1127.5	73	1135.2	74	1141.3	75	1163.3
76	1193.8	77	1006.5	78	1026.2	79	1068.5	80	1079.4
81	1096.3	82	1137.8	83	1153.9	84	1155.3	85	1026.3
86	1036.0	87	1046.4	88	1052.3	89	1070.3	90	1085.8
91	1103.5	92	1126.4	93	1249.9	94	1222.3	95	1316.9
96	1025.8	97	1052.1	98	1057.8	99	1060.6	100	1094.6
101	1129.2	102	1158.6	103	1189.2	104	1223.7	105	1231.7
106	1239.8	107	1362.9	108	1371.5	109	1395.0	110	1068.7
111	1077.1	112	1121.9	113	1155.4	114	1206.1	115	1236.9
116	1099.6	117	1101.2	118	1109.6	119	1151.6	120	1184.1
121	1225.3	122	1298.3	123	1377.2	124	1424.1	125	1534.3
126	1159.8	127	1165.8	128	1185.1	129	1214.8	130	1259.3
131	1343.8	132	1538.4	133	1647.3	134	1188.3	135	1200.3
136	1215.7	137	1245.9	138	1288.3	139	1371.5	140	1556.0
141	1683.9	142	1750.3	143	1250.0	144	1278.0	145	1315.6
146	1375.2	147	1438.2	148	1539.4	149	1388.8	150	1410.6
151	1493.1	152	1427.9	153	1488.4	154	1580.4	155	1712.0
156	1786.7	157	1884.2	158	1997.4	159	2129.5	160	1403.4
161	1575.9	162	1630.6	163	1554.5	164	1692.4	165	1670.8
166	1629.1	167	1774.2	168	1776.1	169	1765.7	170	1958.2
171	1891.5	172	2033.5	173	2056.4	174	2232.8	175	2274.8
176	2339.5	177	2349.9	178	2519.1				

********** LAST TIME STEP **********

WELL 01N/05W-23P04 NODE 16 PERF 200-630 40 PCT UPPER AQUIFER LSD=1470

DATE 0/ 0/ 0




C
C
C
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48.
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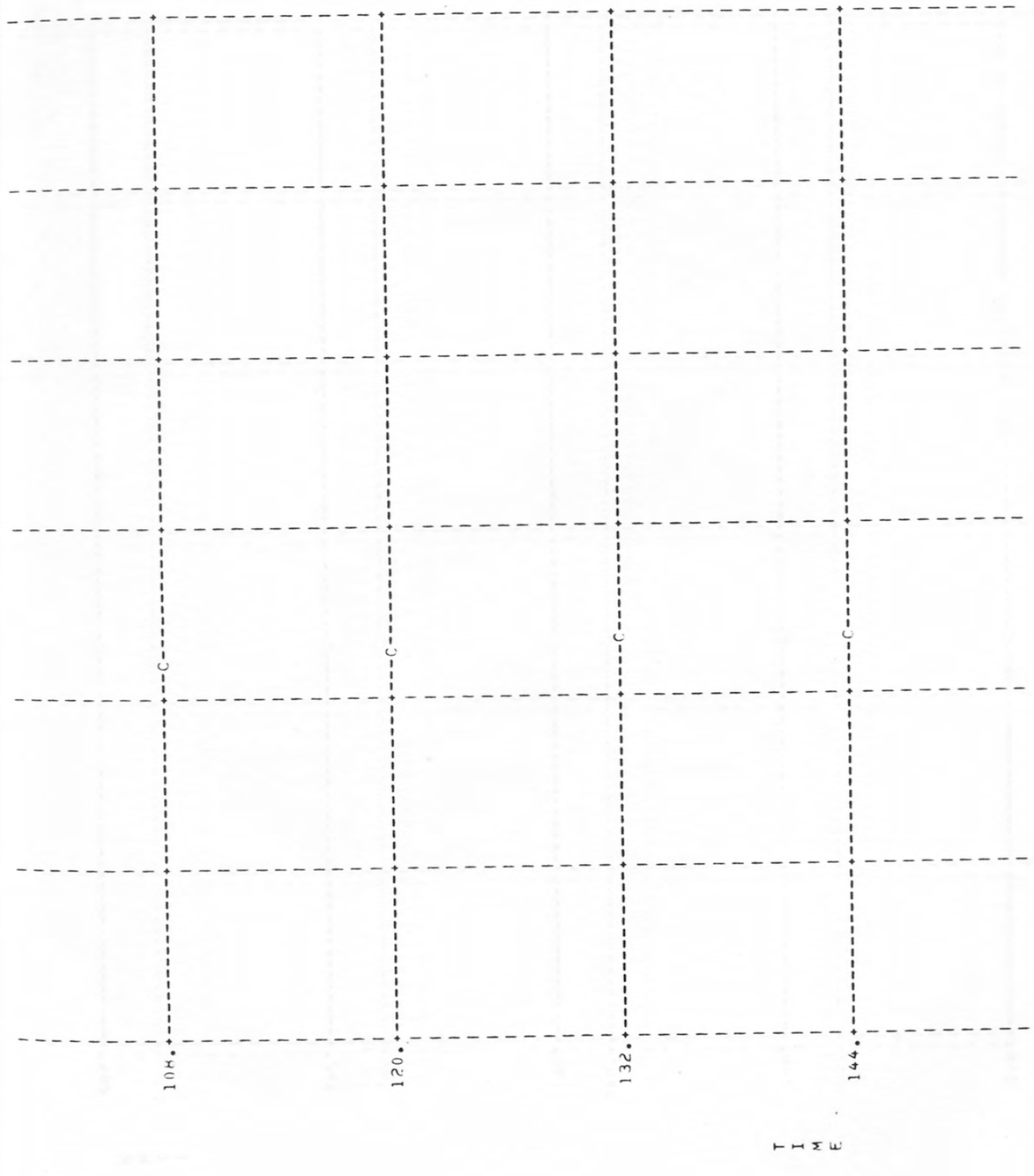
84.
96.
TIME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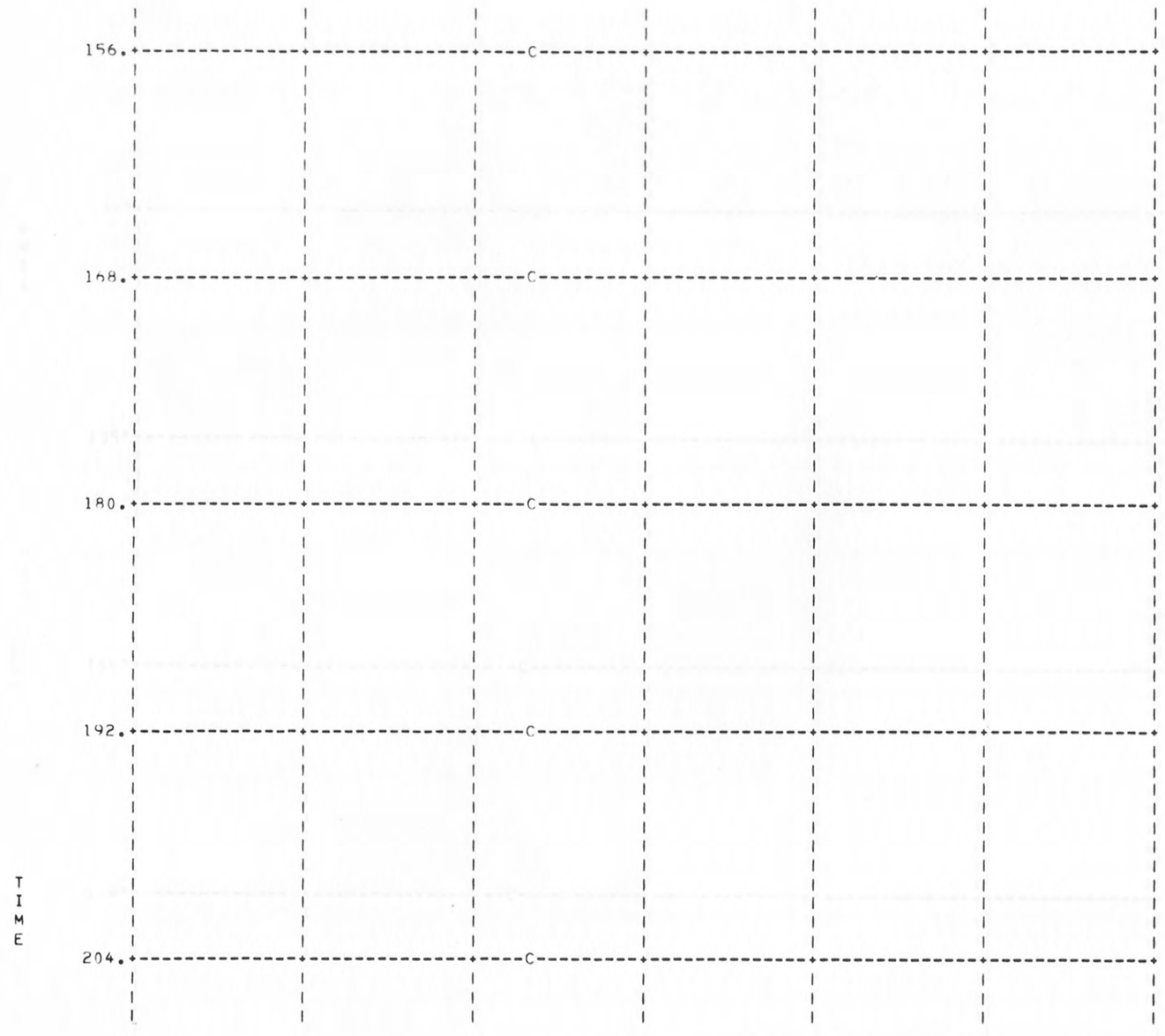
TIME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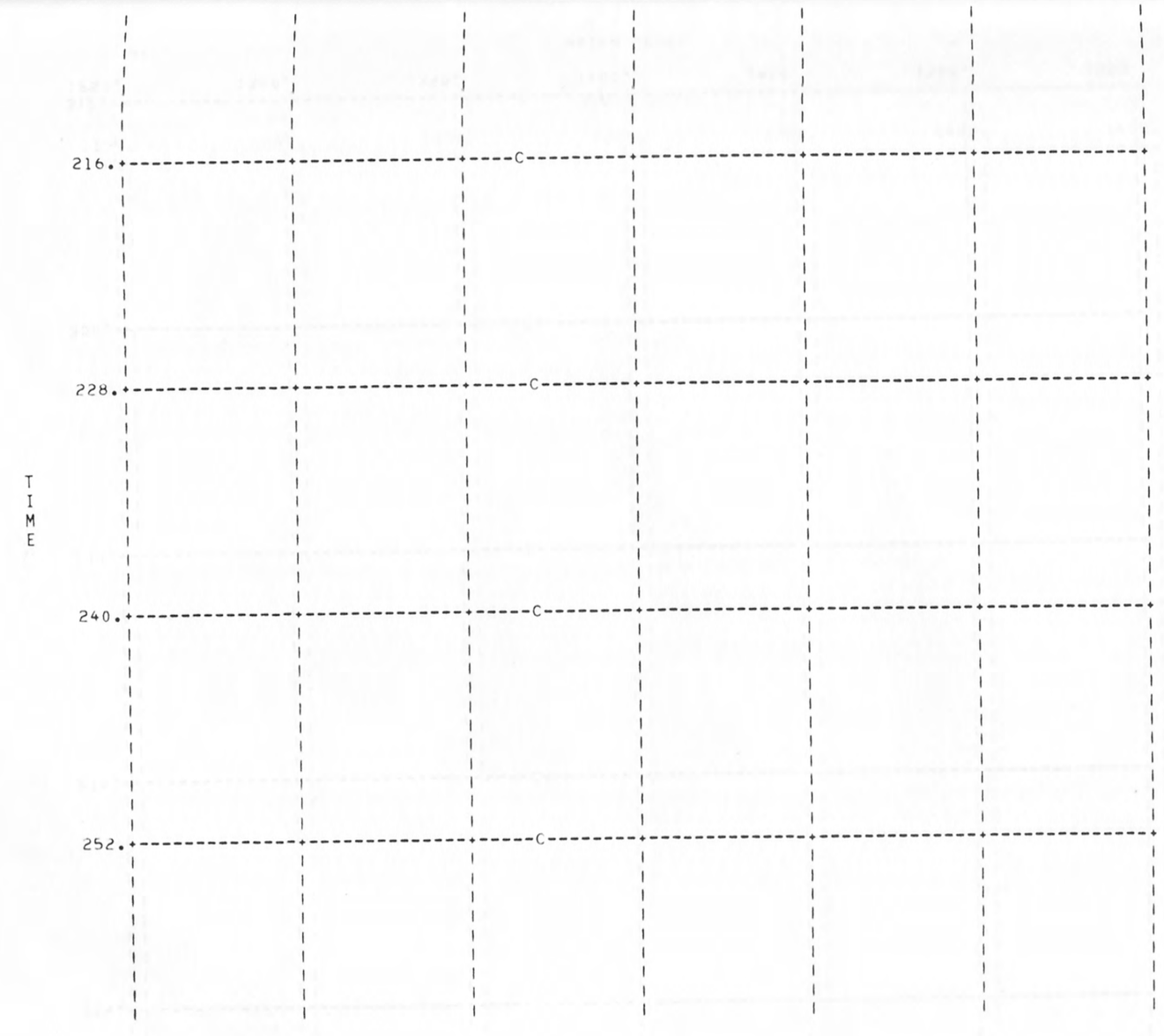
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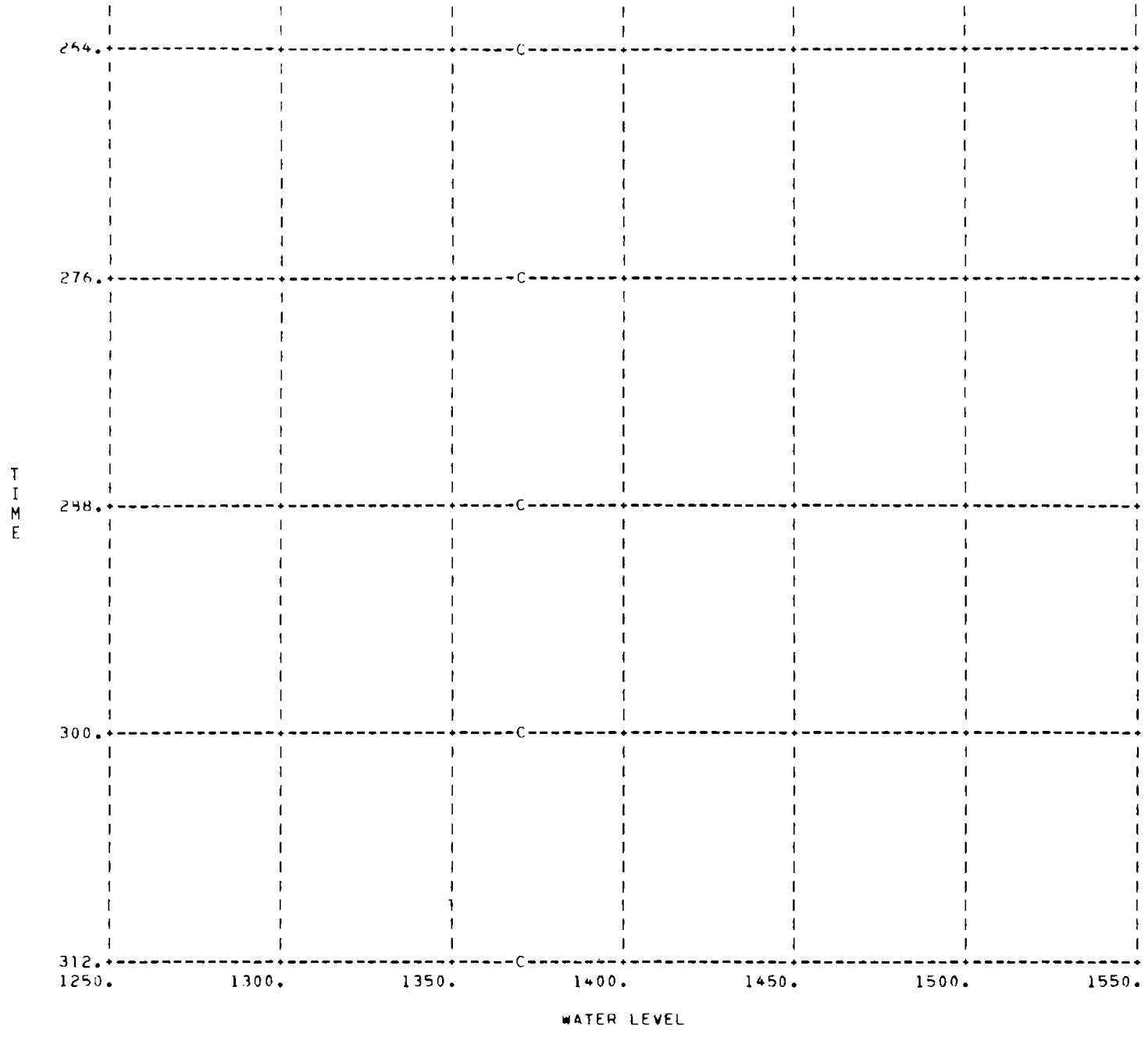
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C
TIME
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1350.
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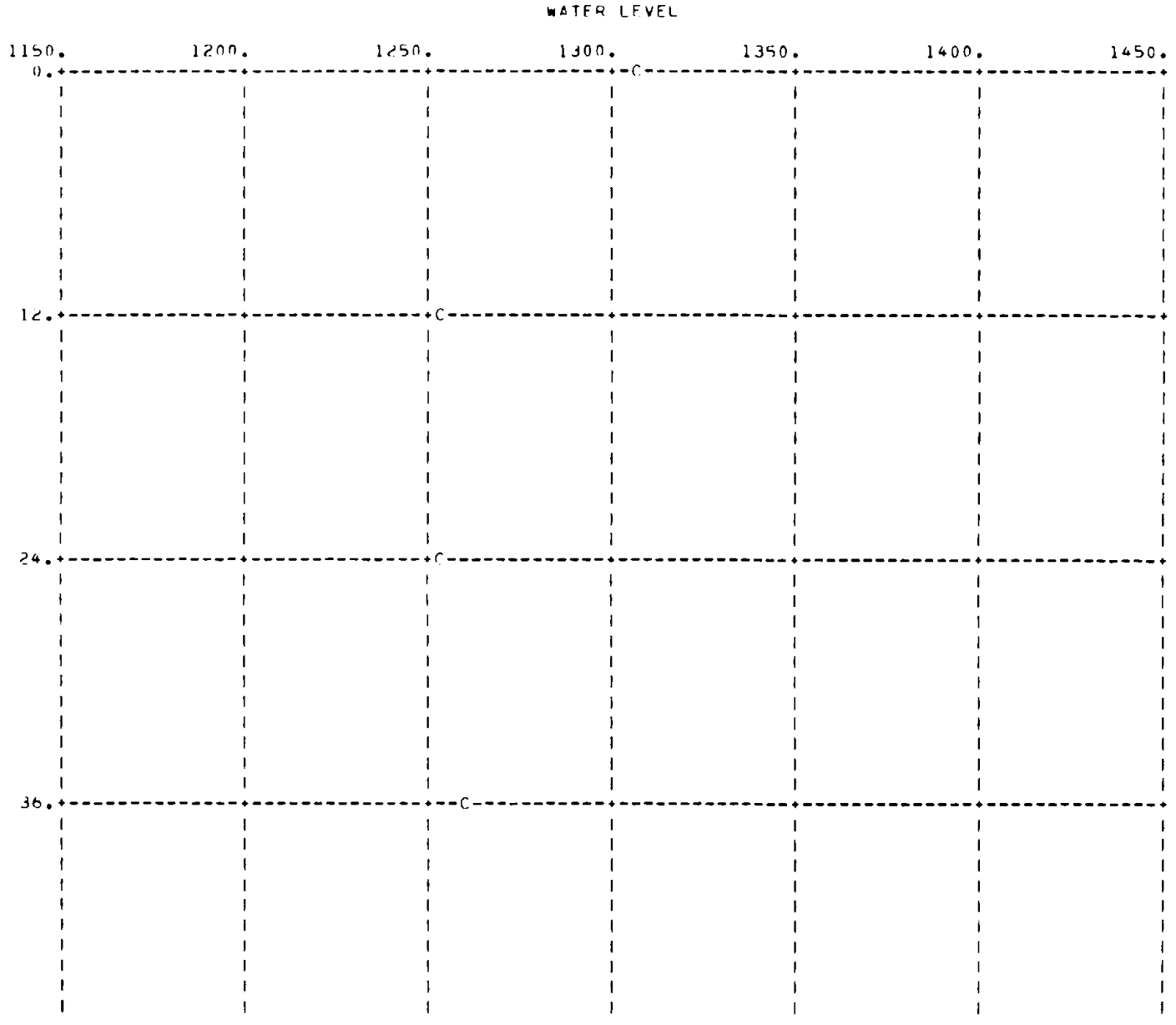
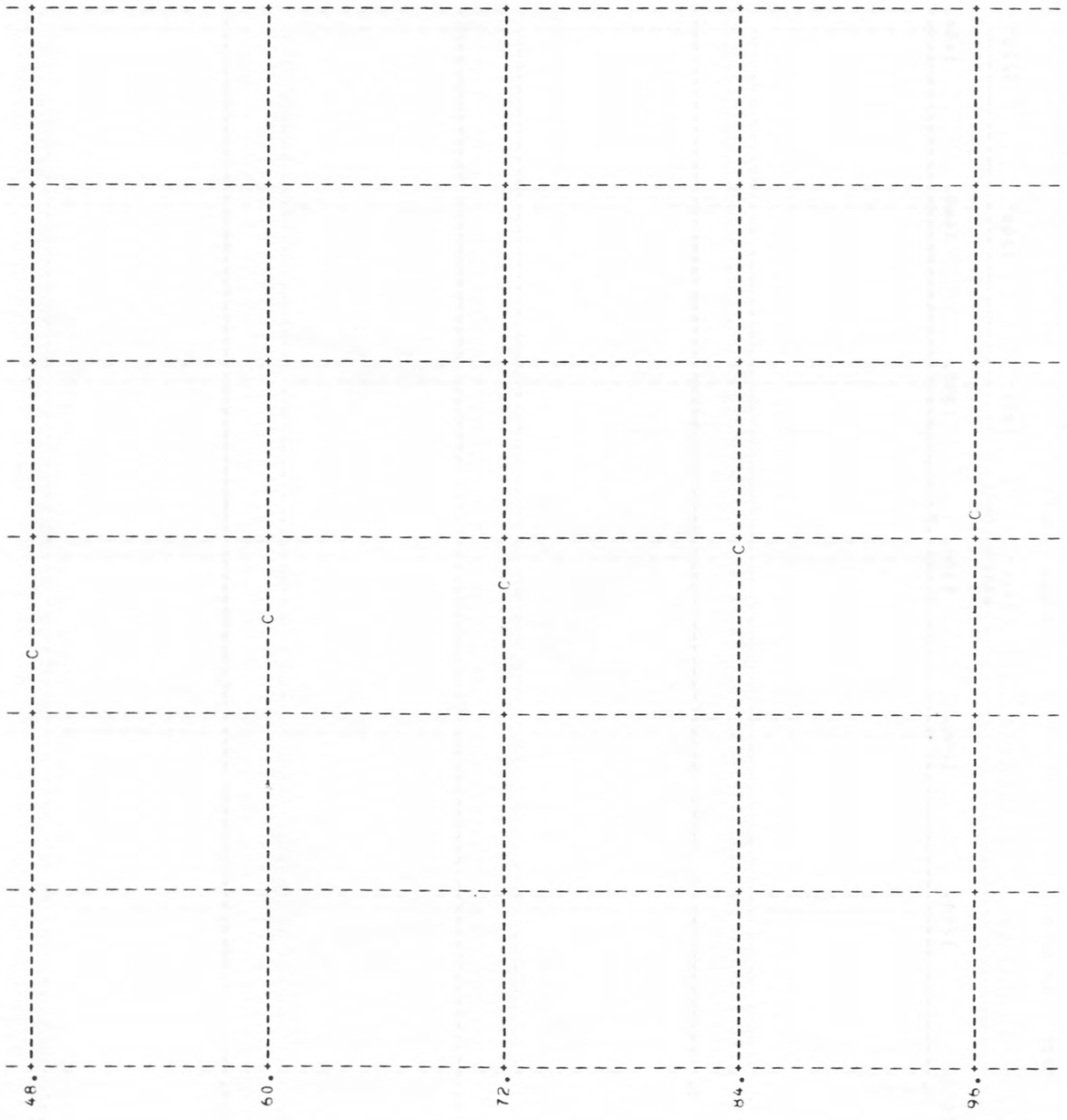
WATER LEVEL

WELL 01N/04W-16E01 NODE 41 PERF 186-406 30 PCT UPPER AQ LSU=1420

DATE 0/ 0/ 0

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TIME


108.
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TIME


156
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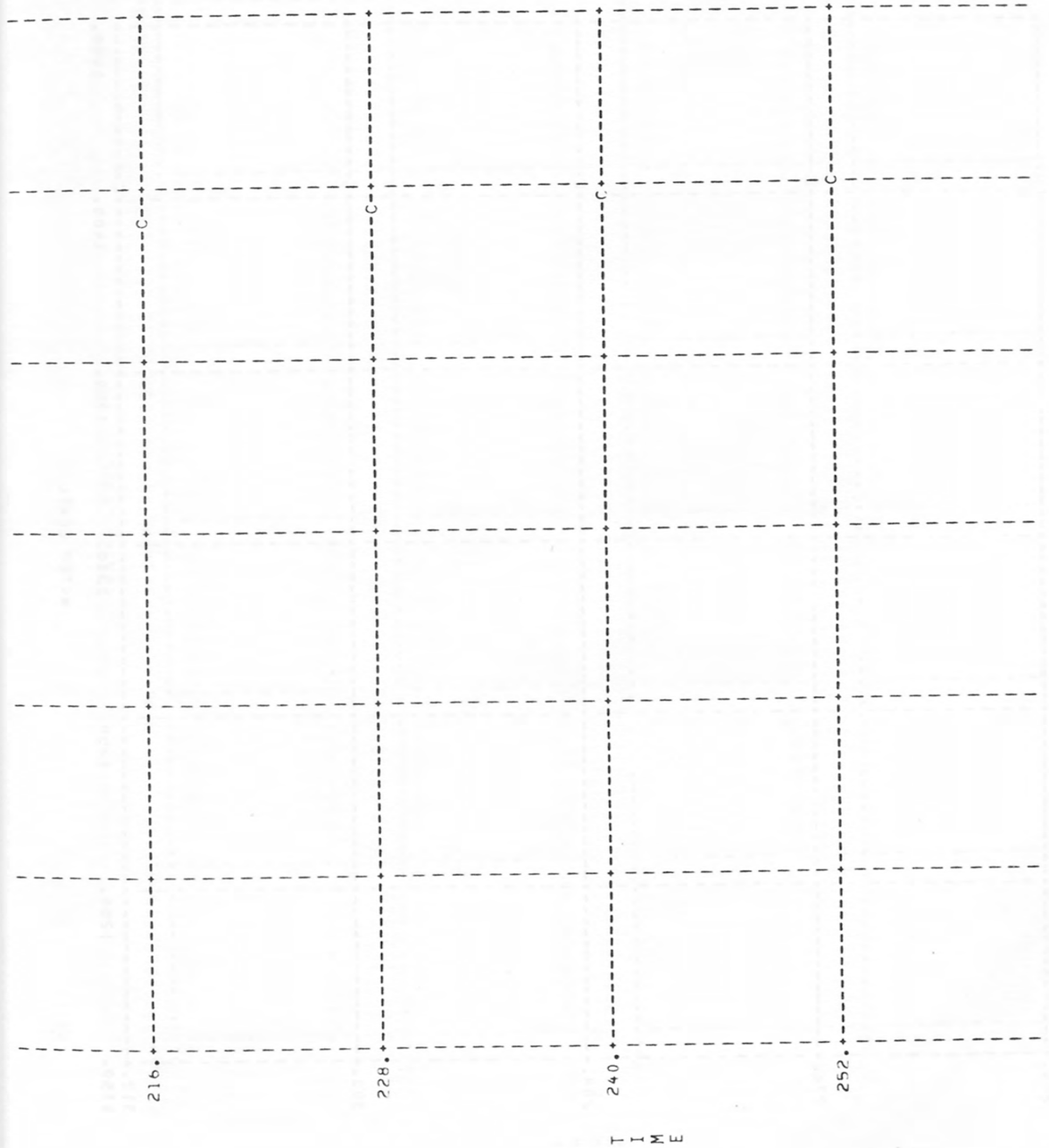
204
TIME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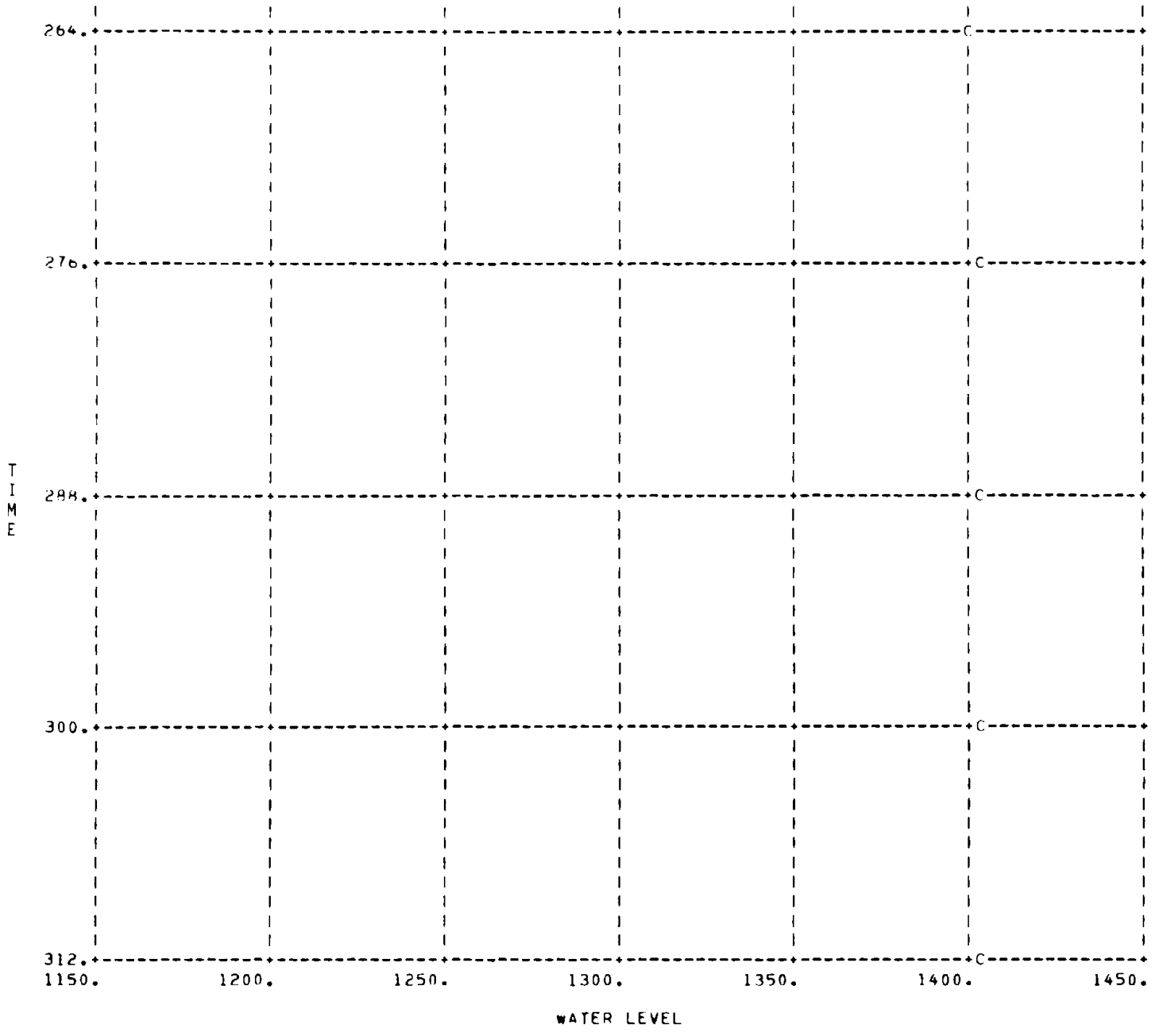
TIME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TIME
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1300.
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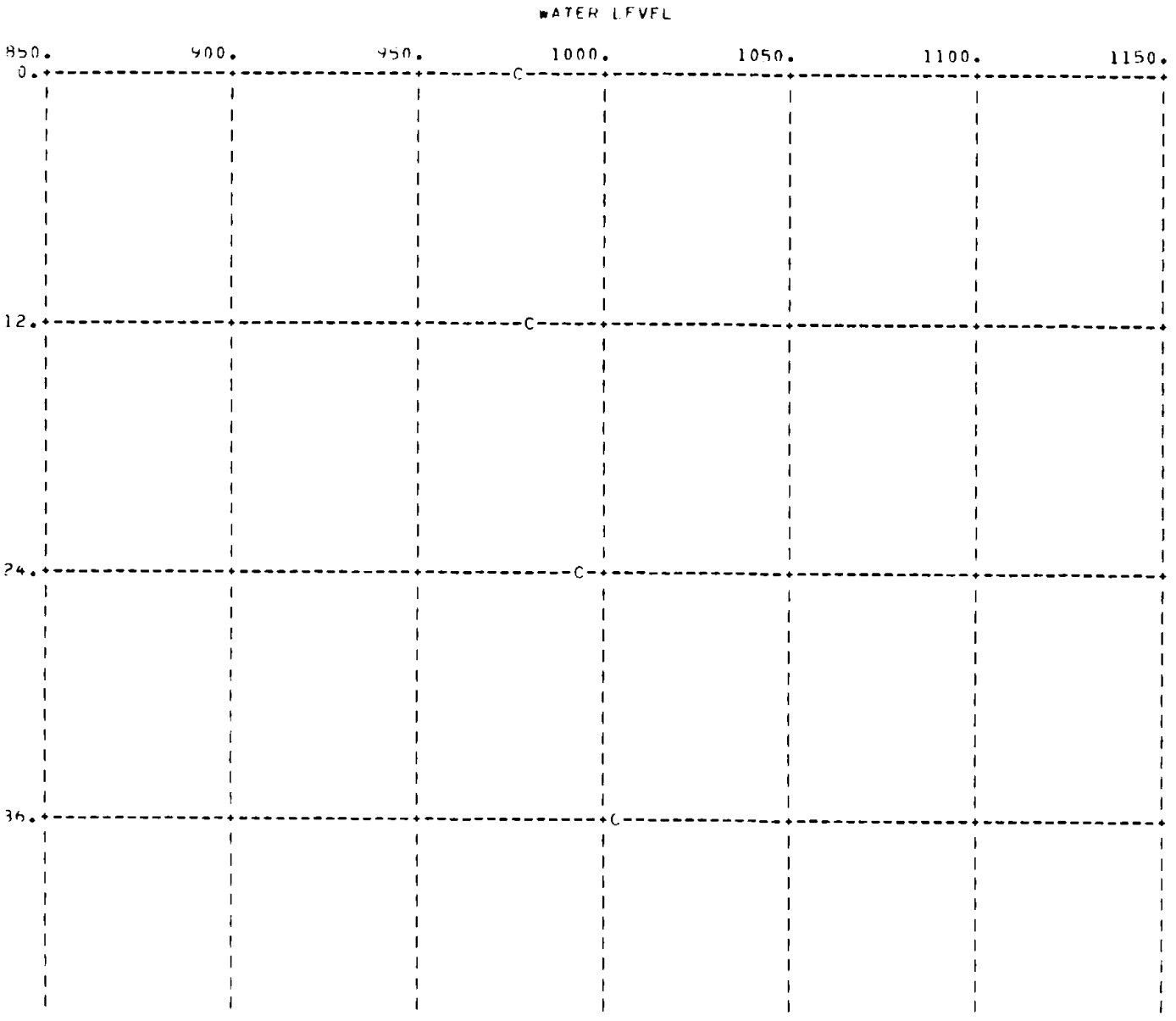
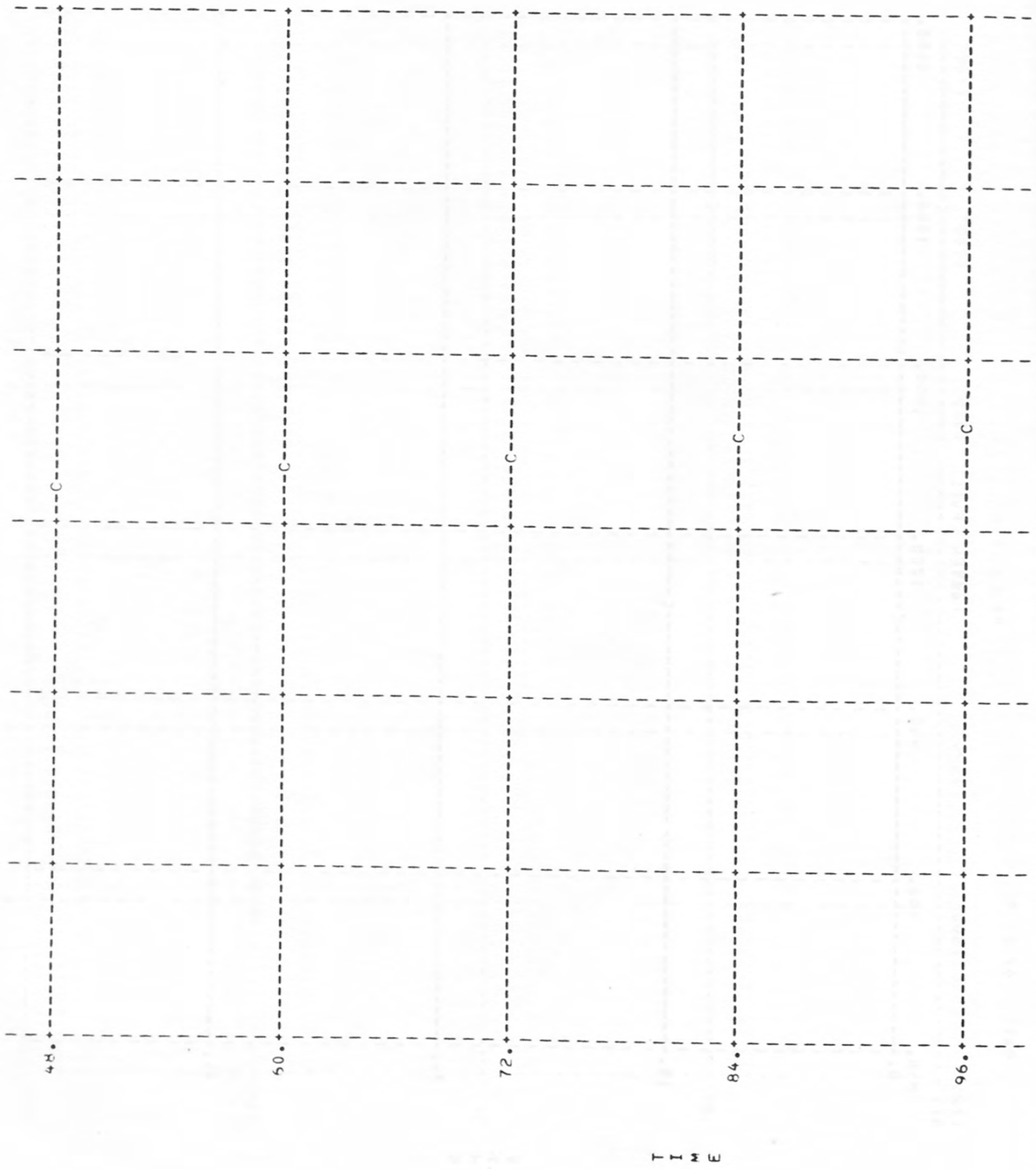
WATER LEVEL

WELL 015/04W-08F10 NODE 50 PERF 226-758 100 PCT LOWER AQ LSD=1099

DATE 0/ 0/ 0

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TIME


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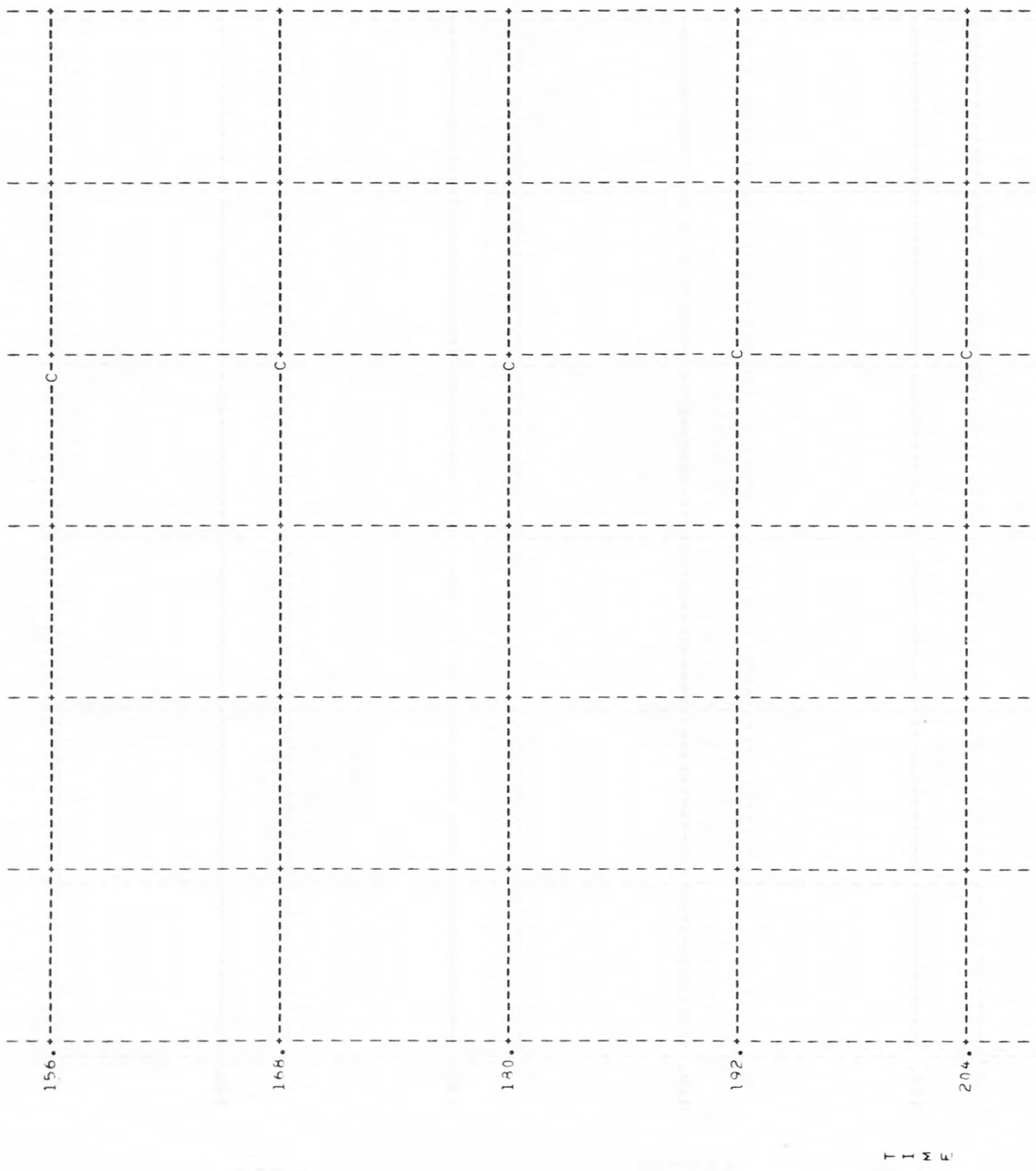
TIME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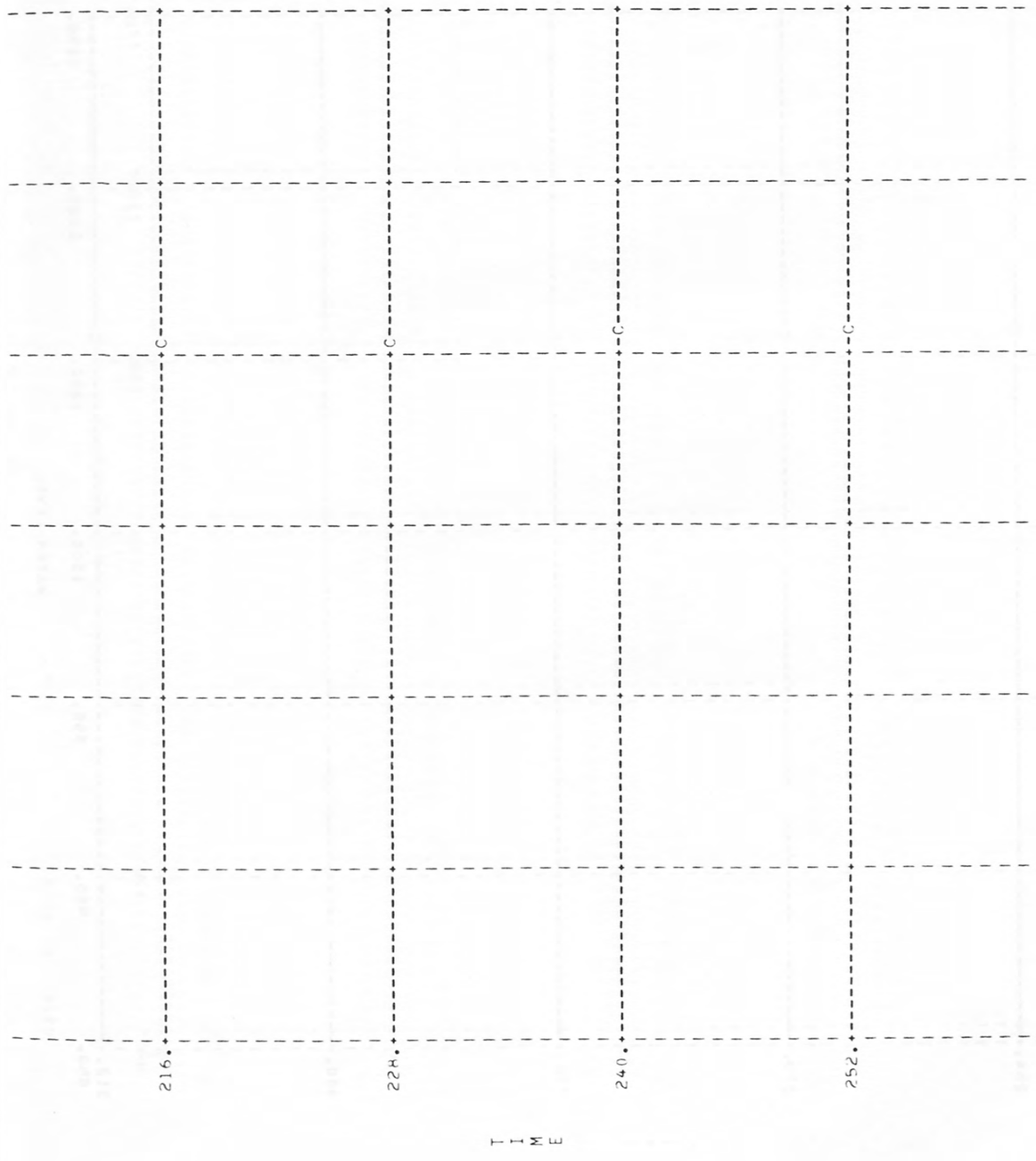
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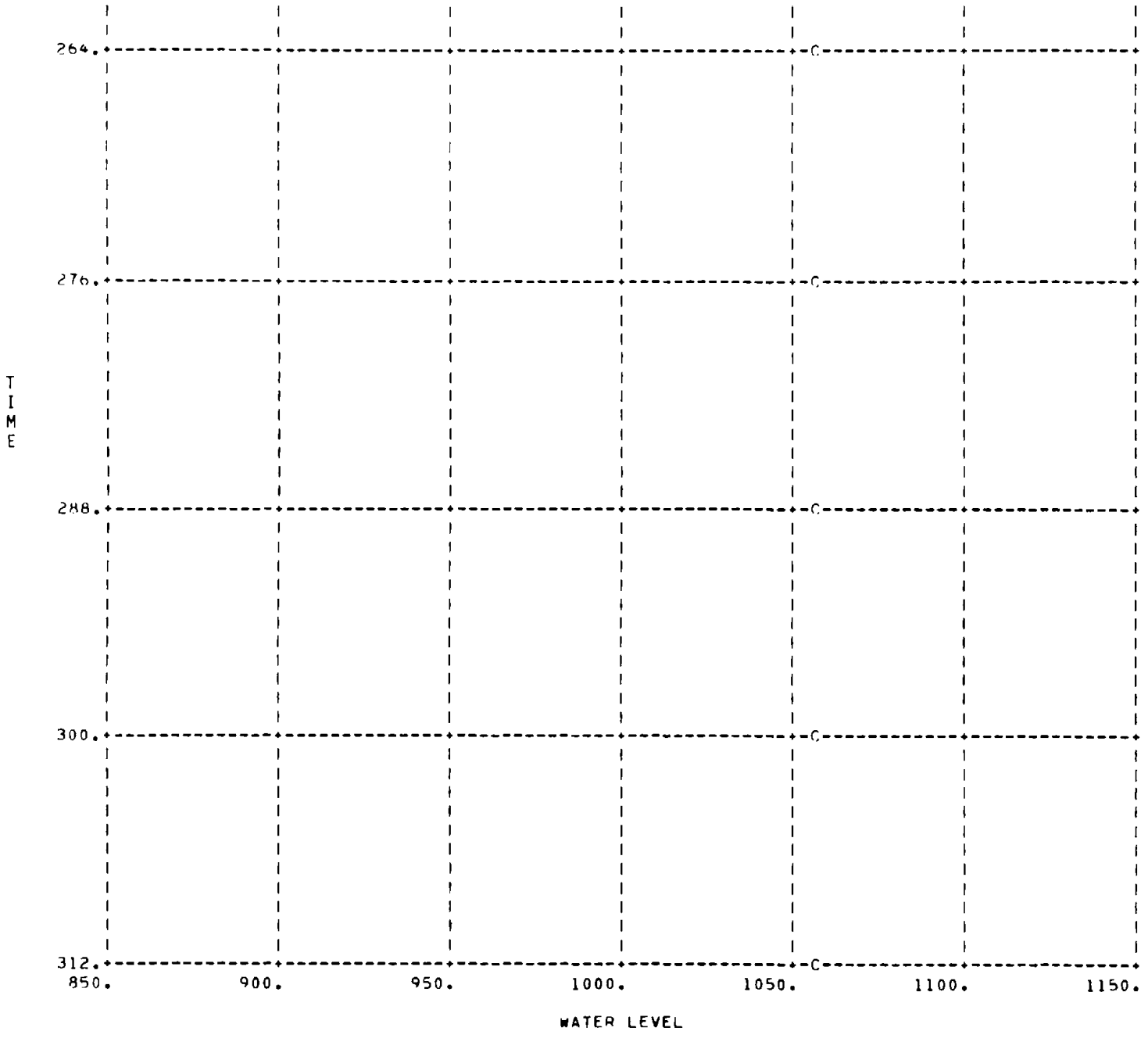
264.
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300.
312.
TIME
850.
900.
950.
1000.
1050.
1100.
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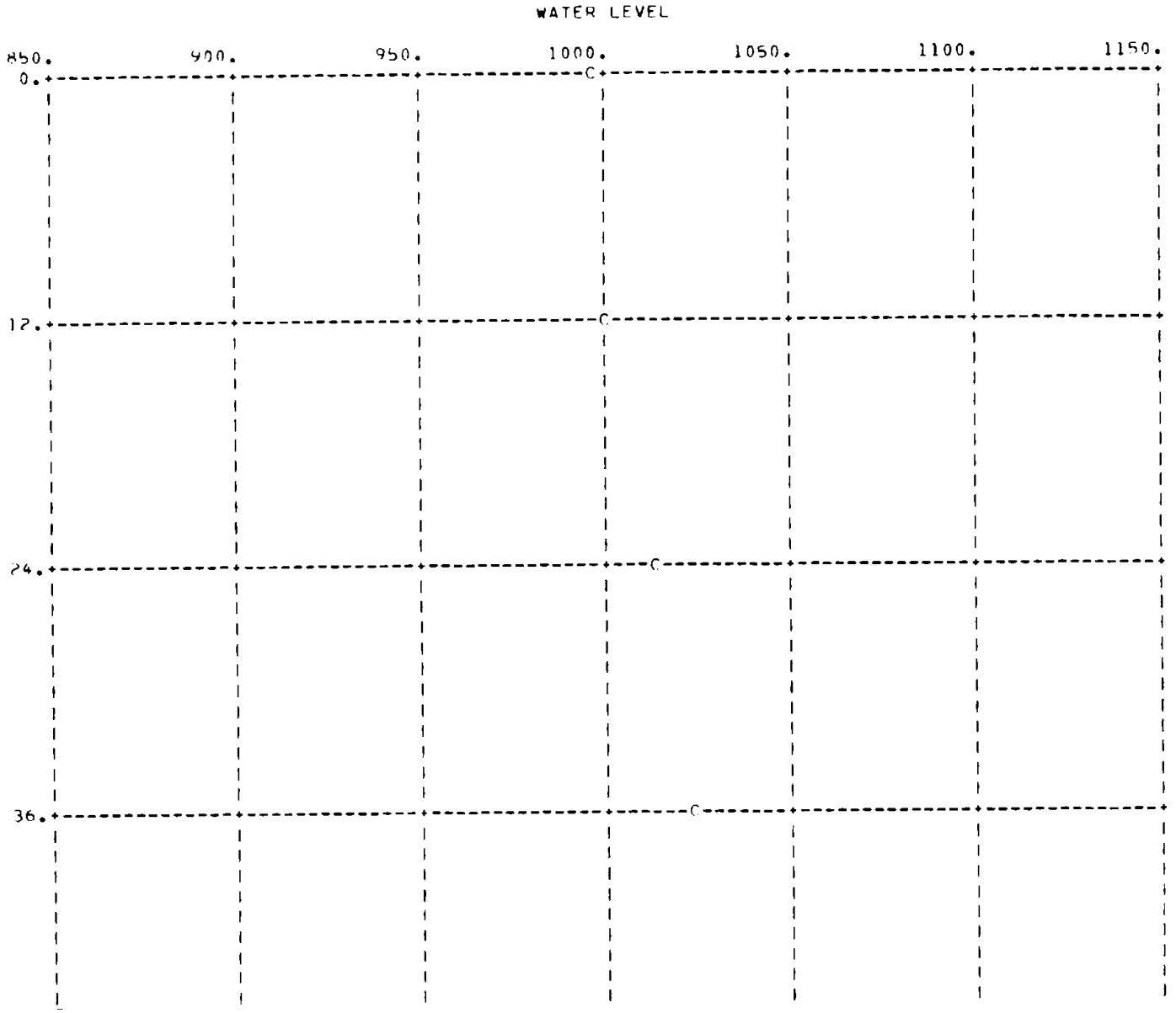
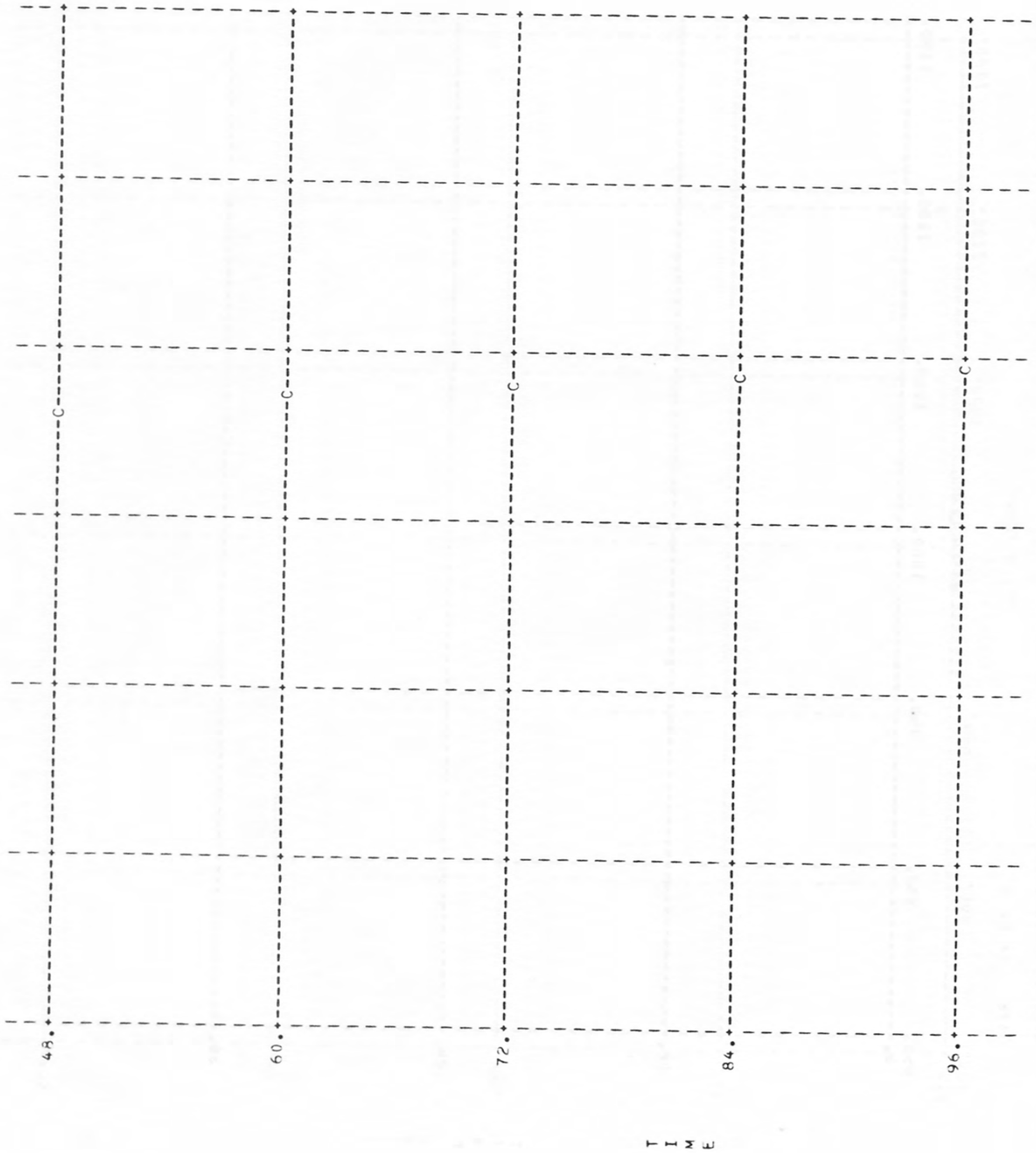
WATER LEVEL

WELL 01S/04W-08A01 NODE 51 PERF 101-482 59 PCT UPPER AQ LSD=1094

DATE 0/ 0/ 0

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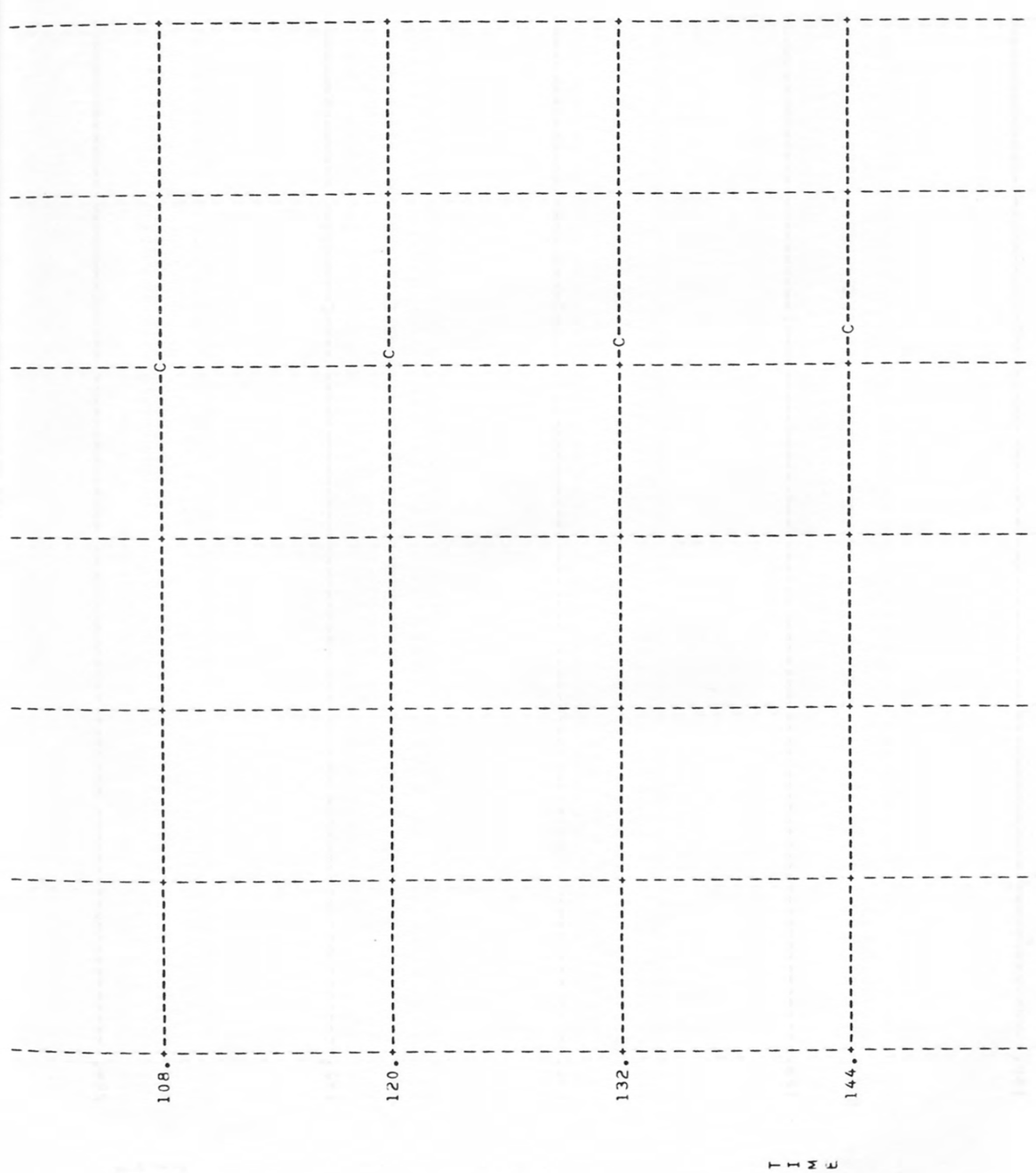
TIME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TIME

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204
TIME

216
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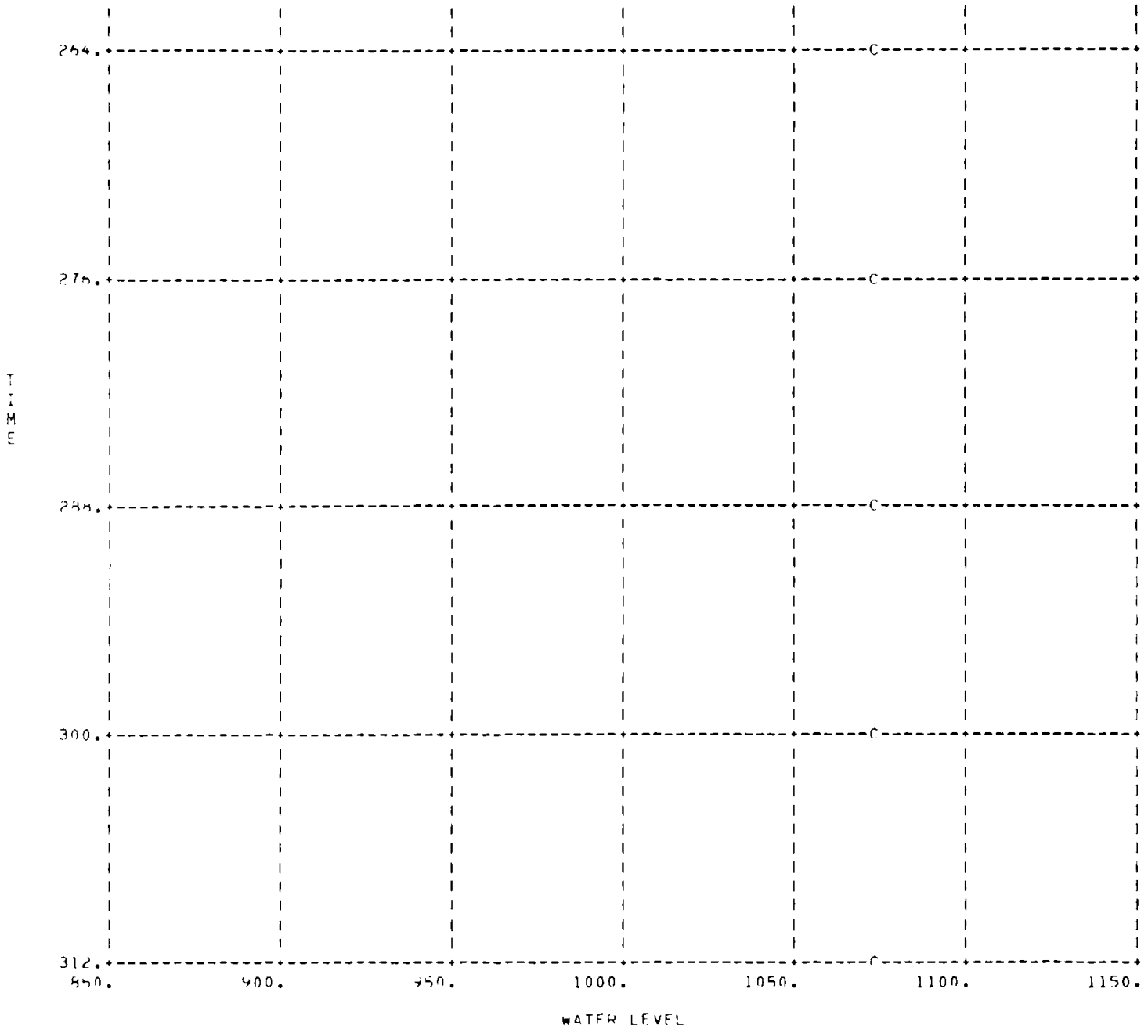
252
TIME


264.
276.
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312.
TIME
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900.
950.
1000.
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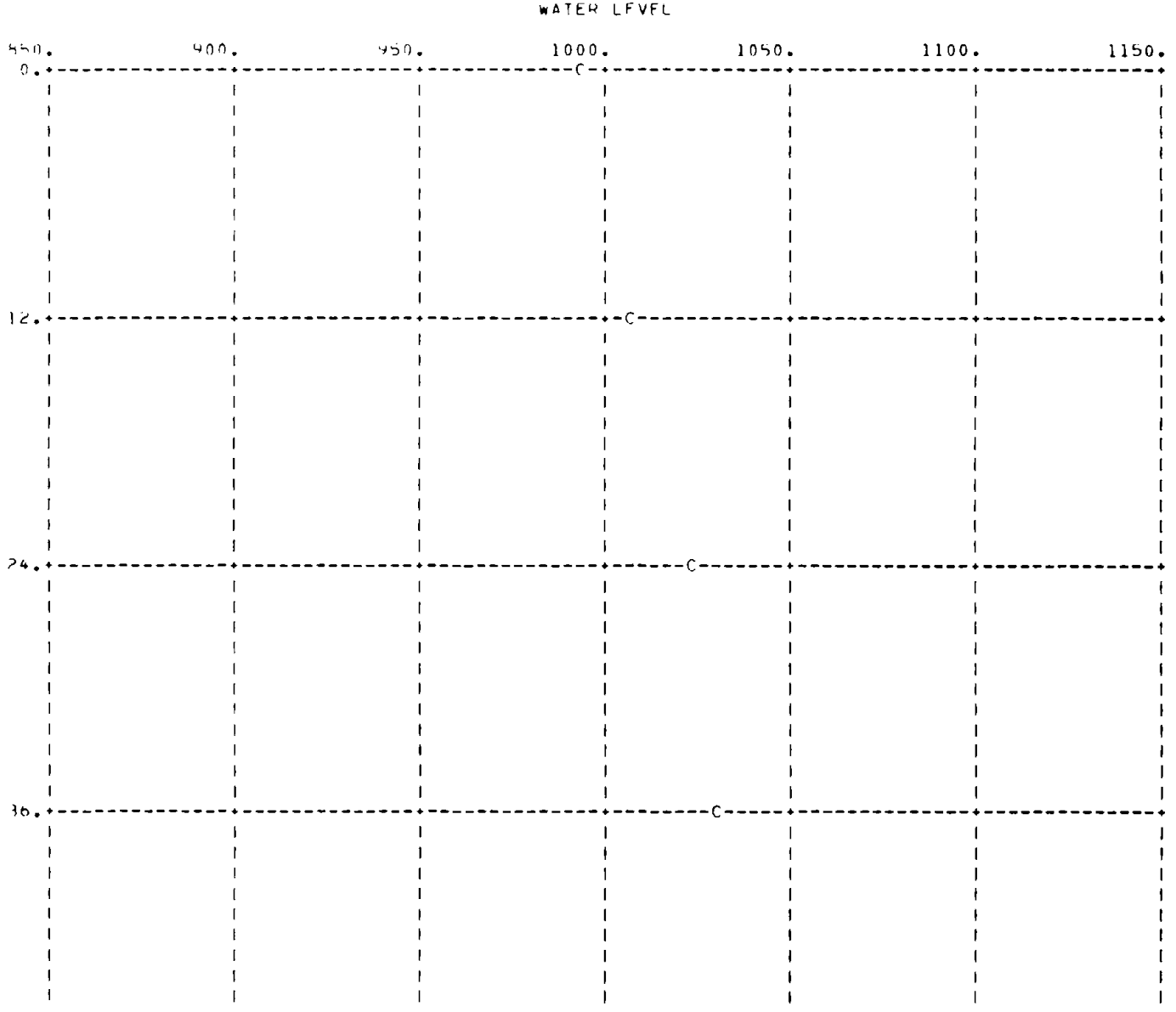
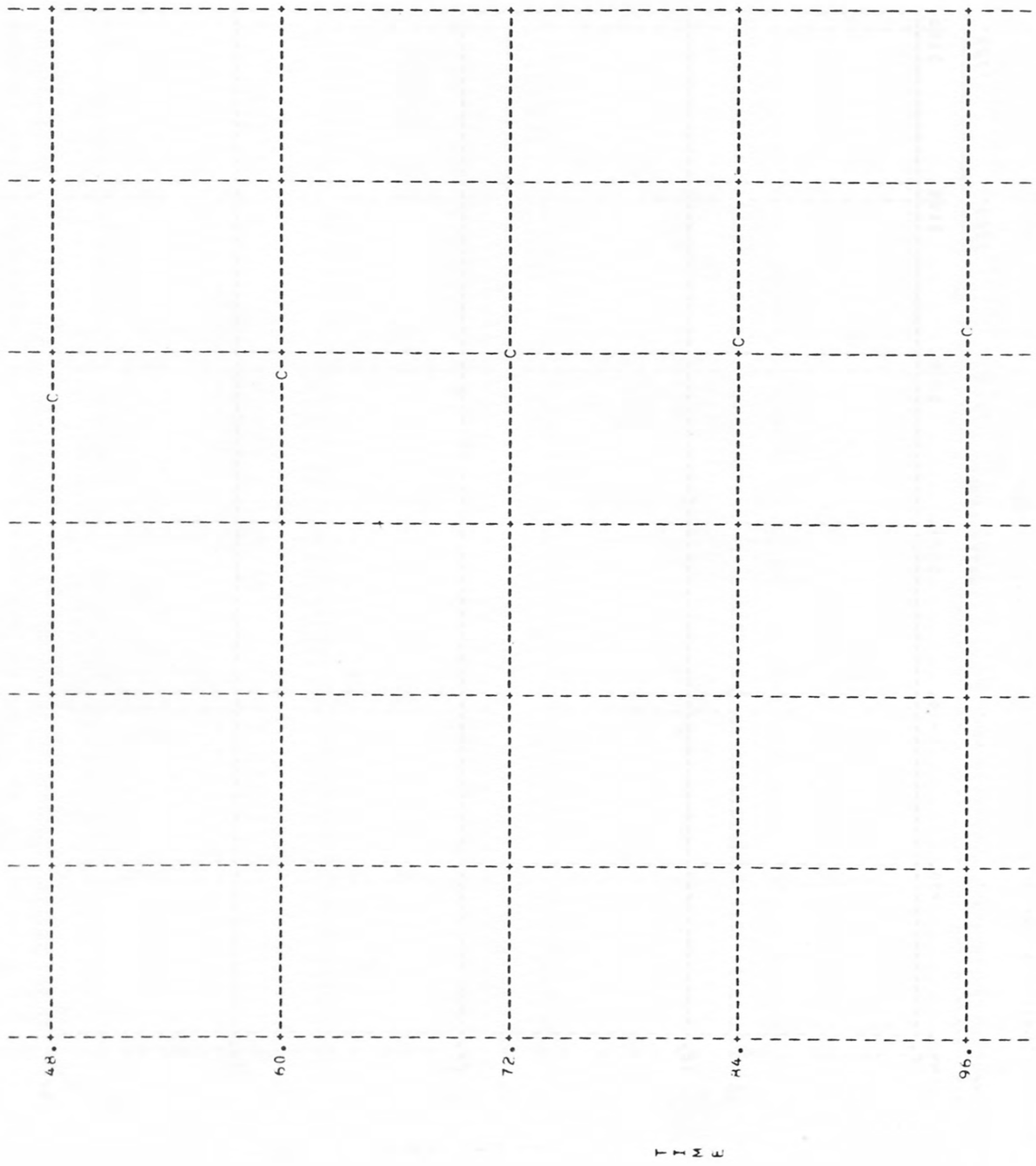
WATER LEVEL

WELL 015/04W-03Z01 NODE 54 PERF 135-460 53 PCT UPPER AQ LSD=1096

DATE 0/ 0/ 0

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TIME


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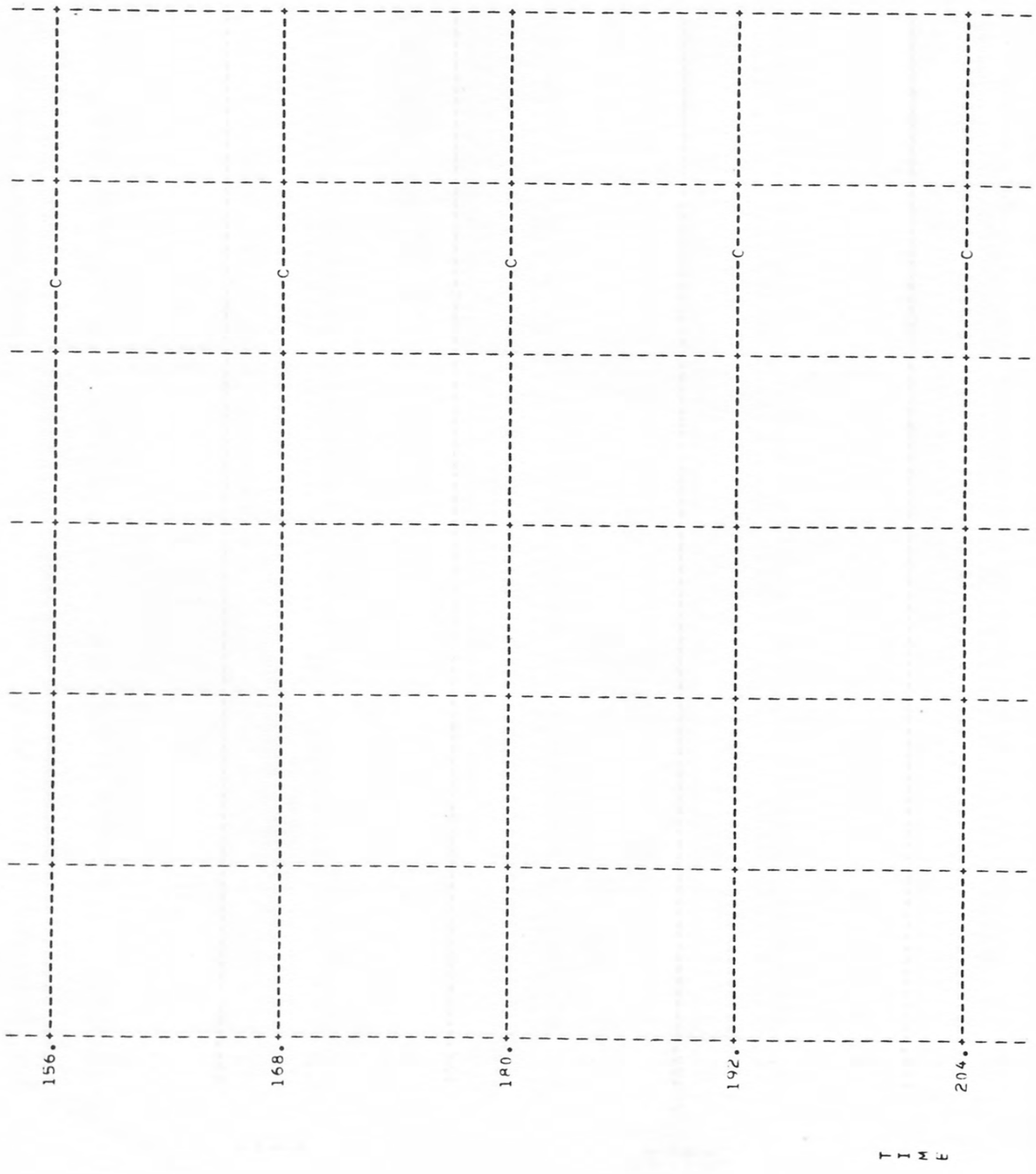
TIME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TIME


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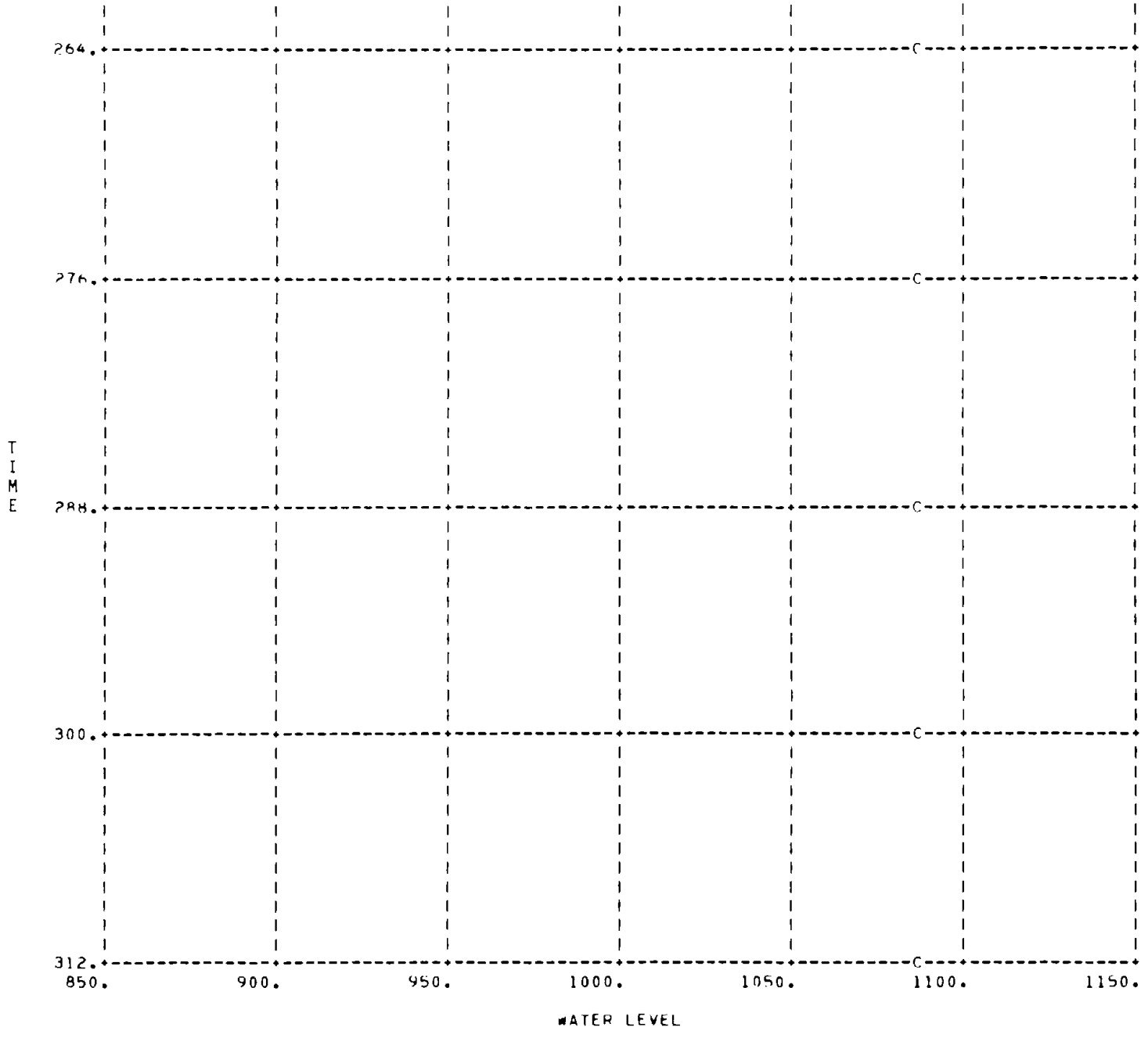
TIME


264.
276.
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300.
312.
TIME
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900.
950.
1000.
1050.
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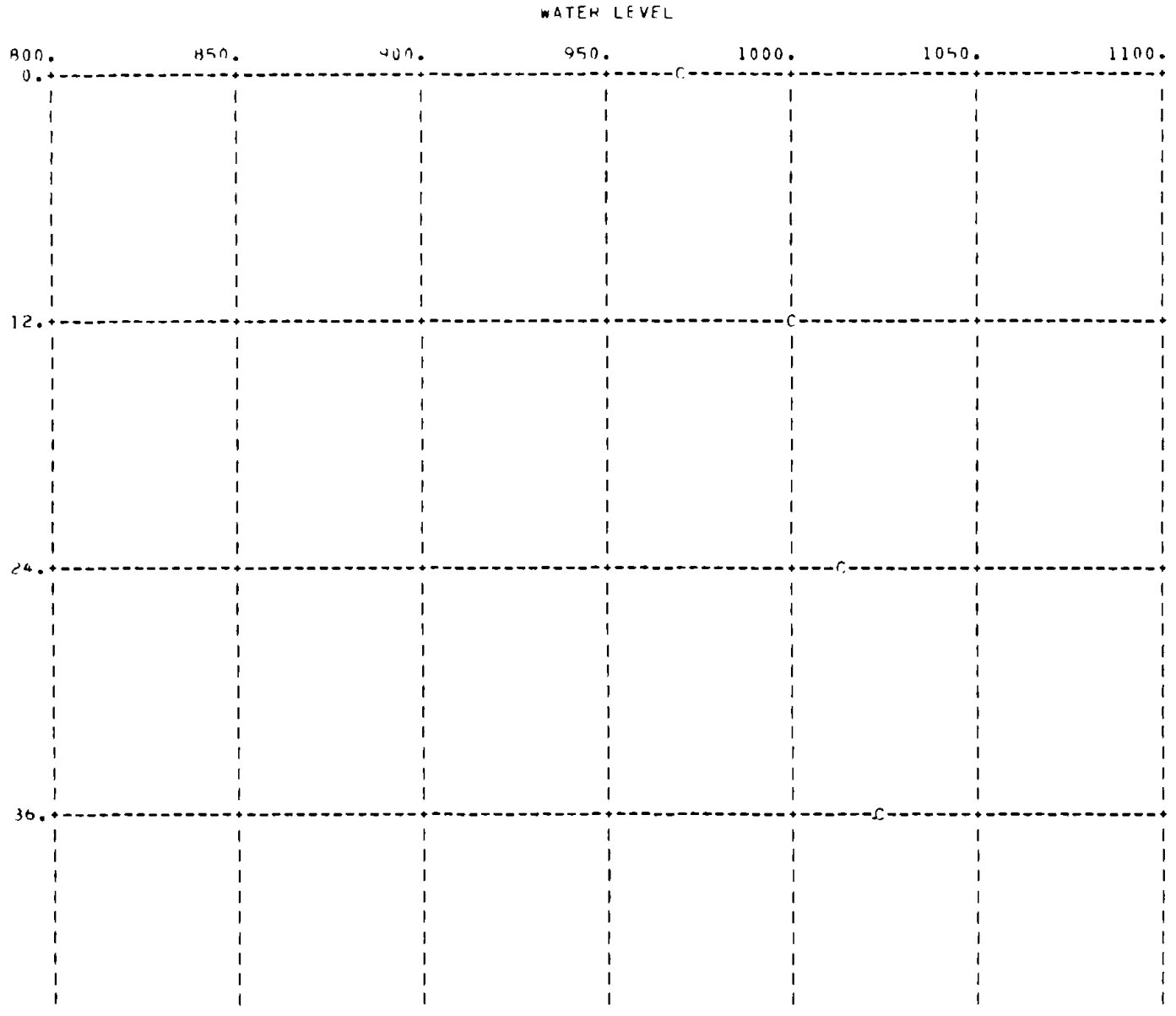
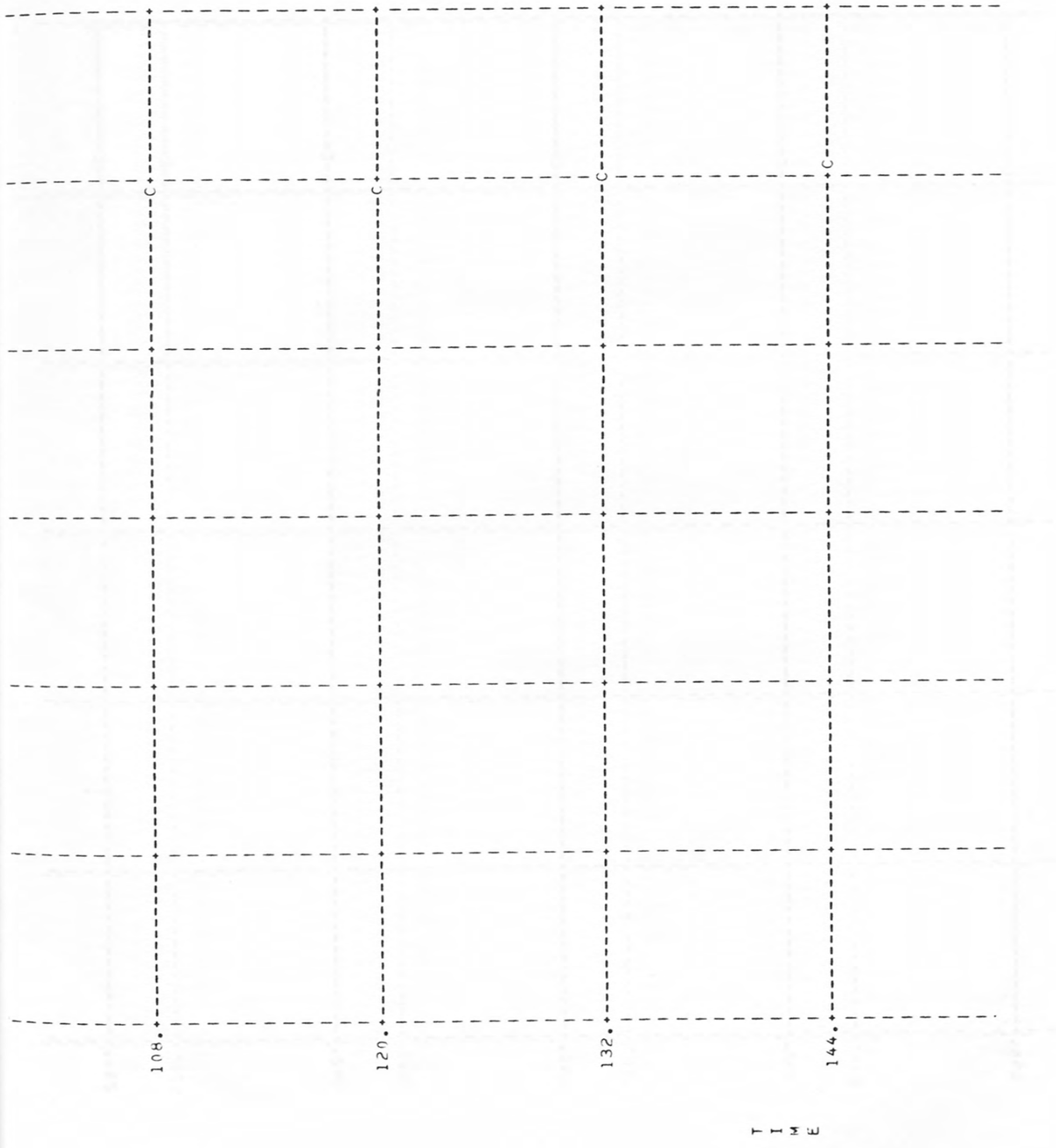
WATER LEVEL

WELL 013/04W-02K01 NODE 69 PERF TO TD=581.85 PCT UPPER AQ LSD=1054

DATE 07/07/0




48
60
72
84
96
TIME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144
TIME


156.
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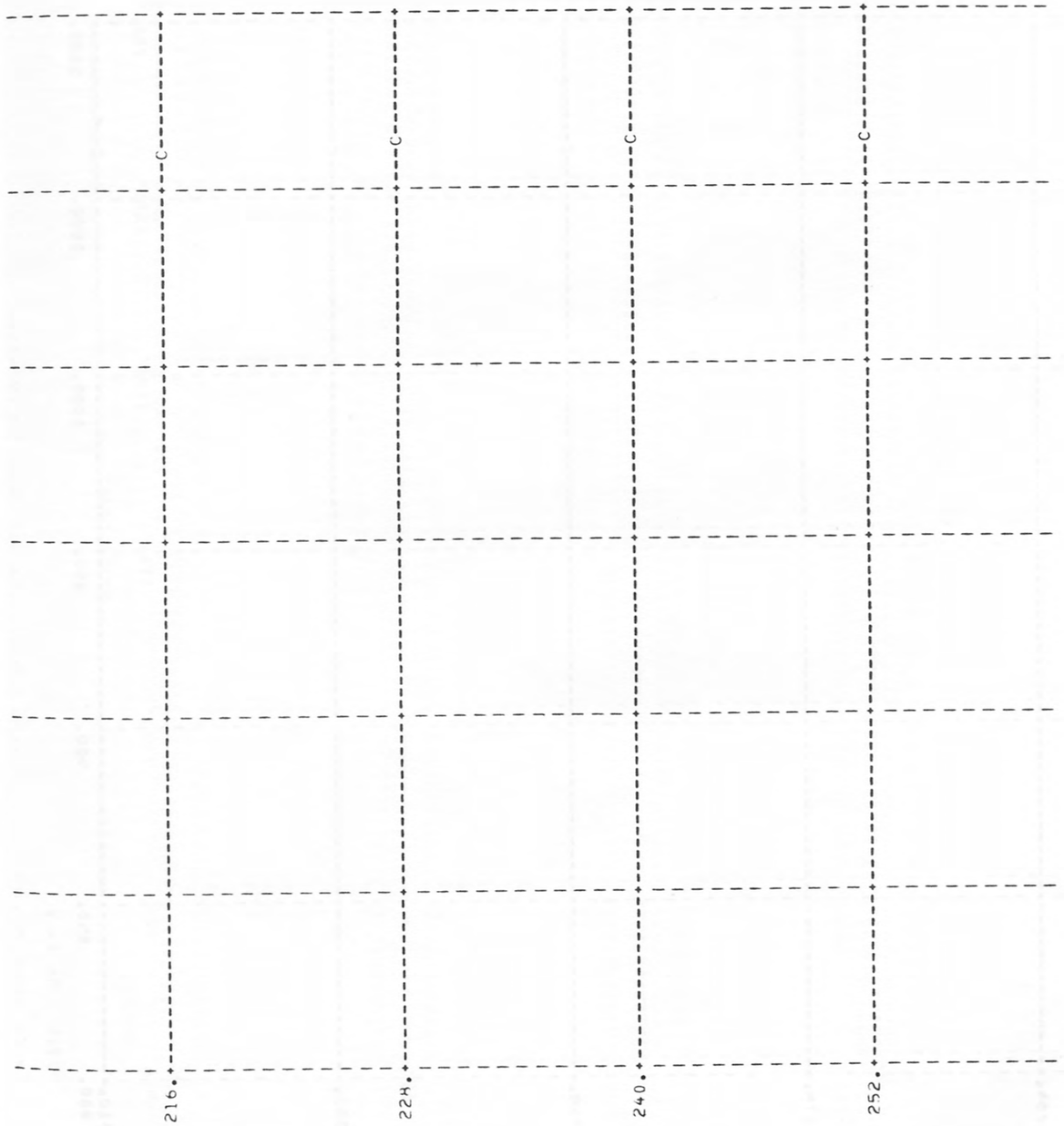
TIME


216.
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TIME

264.
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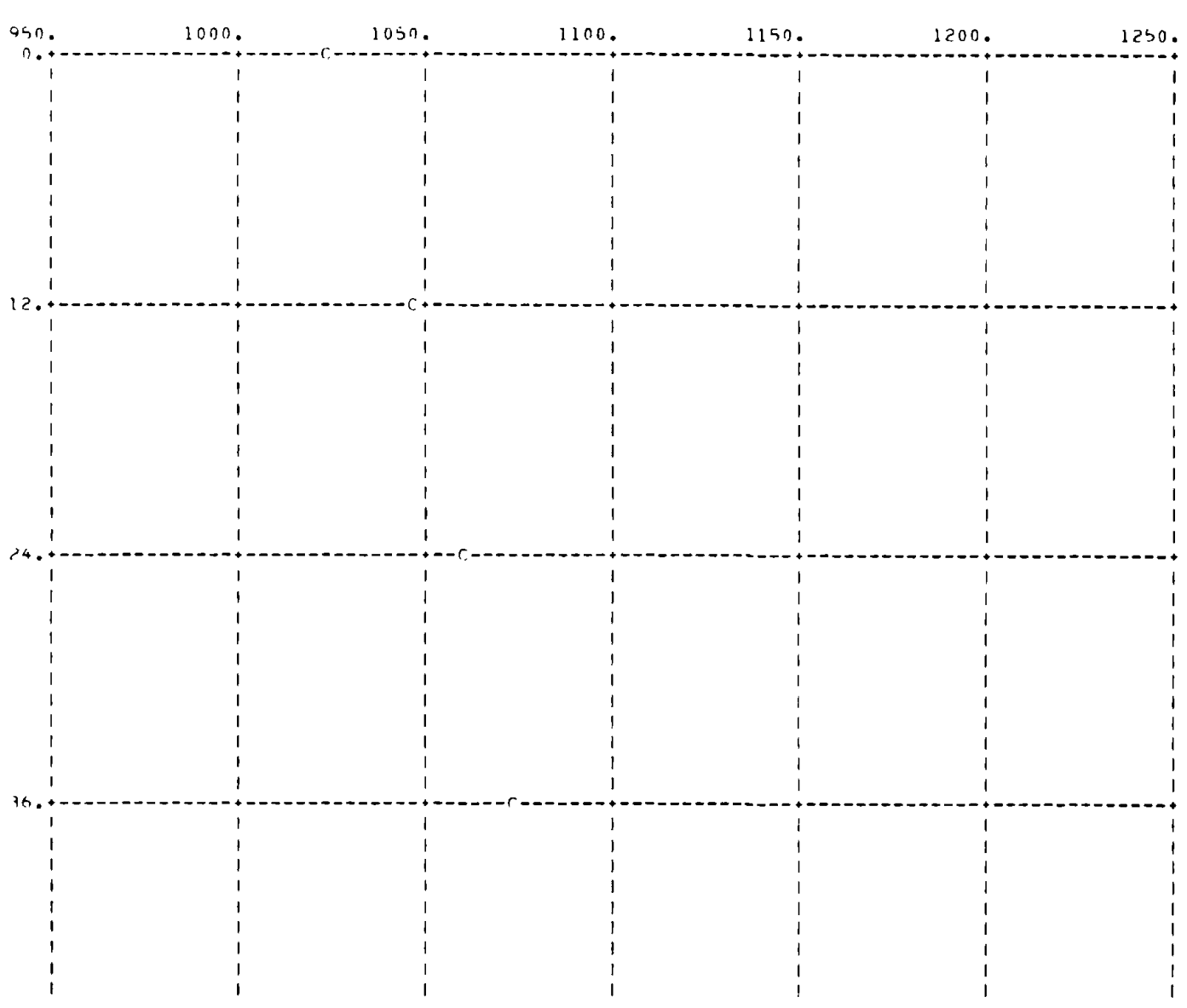
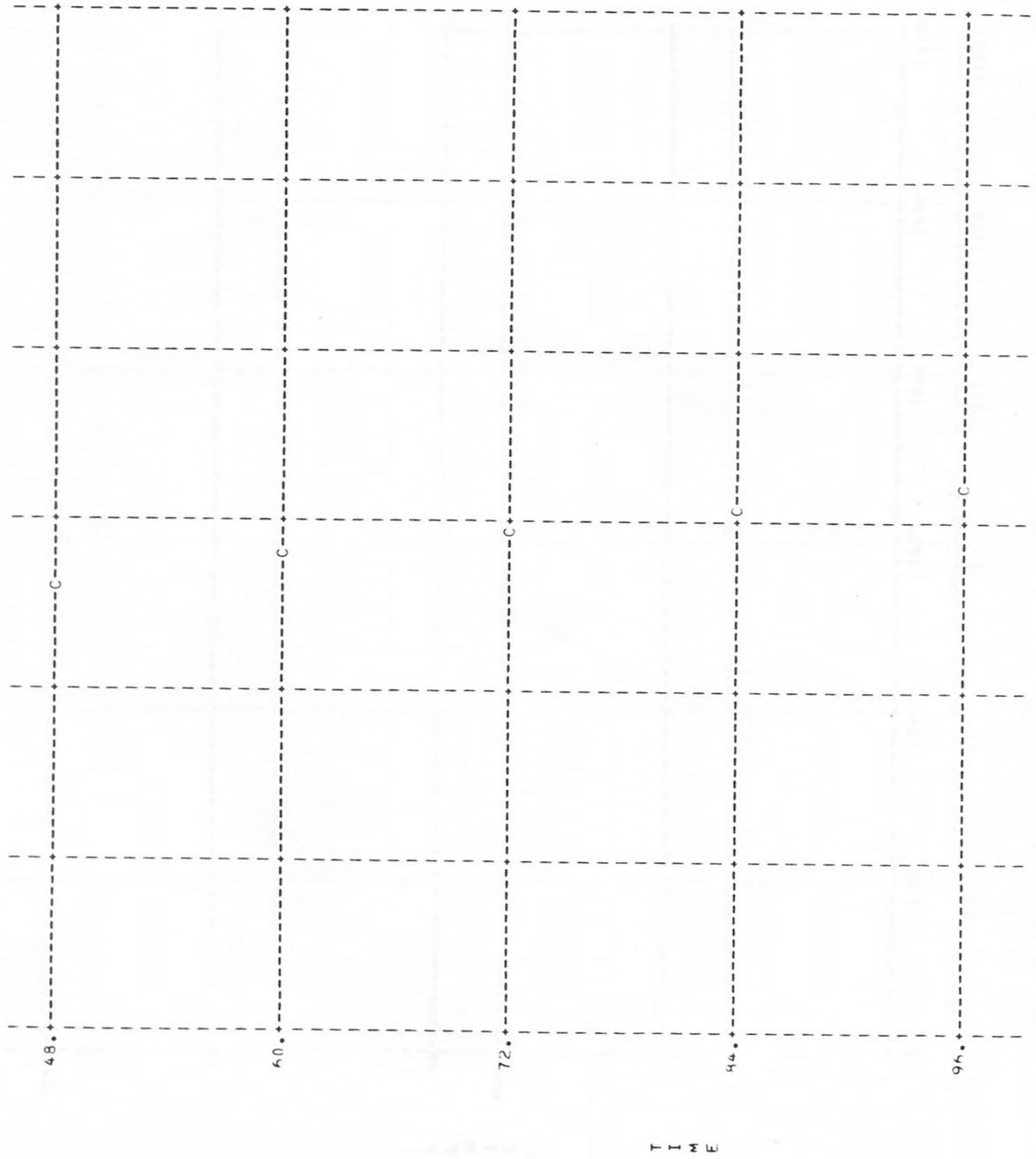
1100.
C

WELL 01N/03W-29M01 NODE 75 PERF 238-396 100 PCT UPPER AQ LSD=1345

DATE 0/ 0/ 0




C
C
C
C
C
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84.
96.
TIME


C
C
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C
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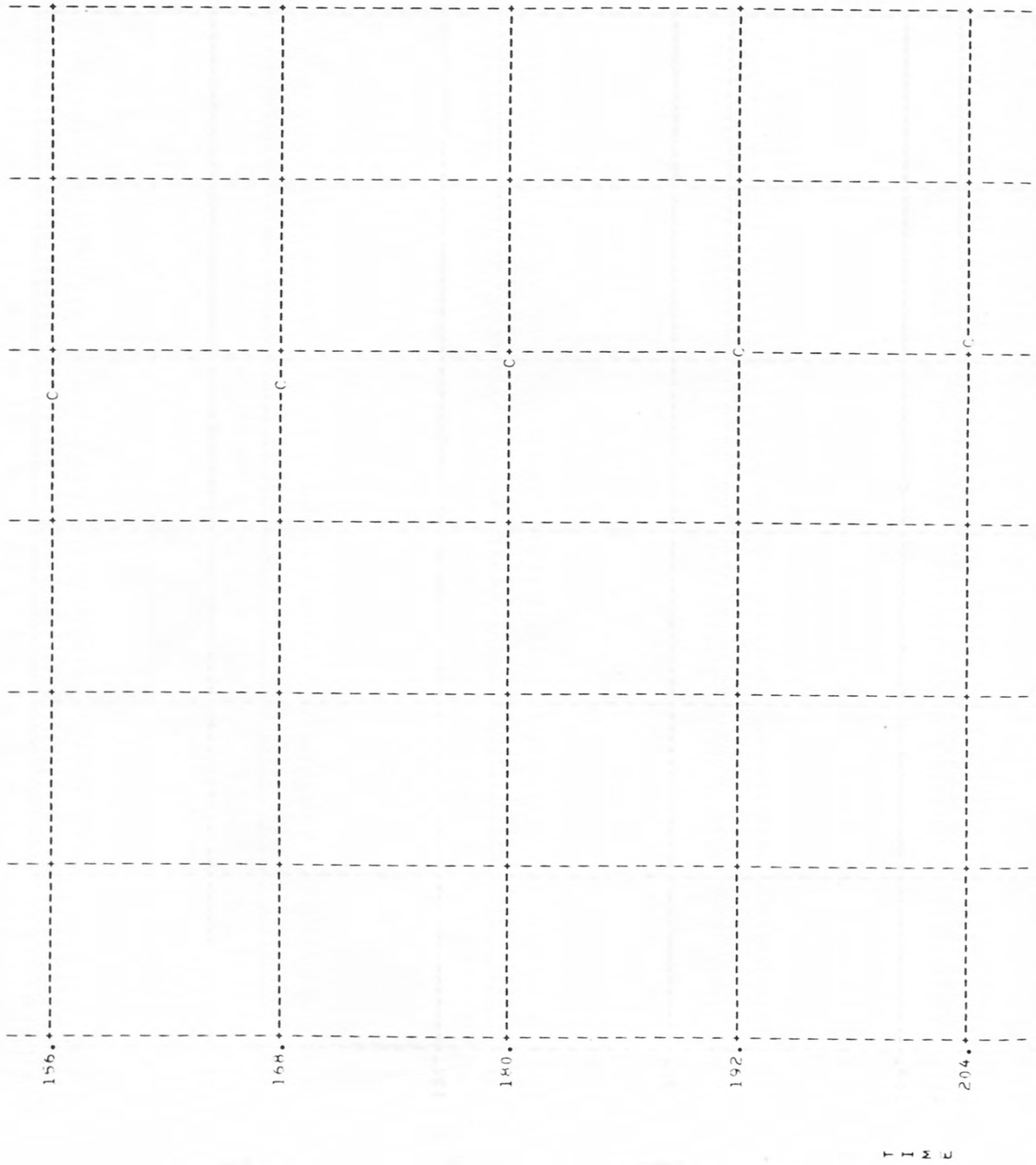
TIME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TIME


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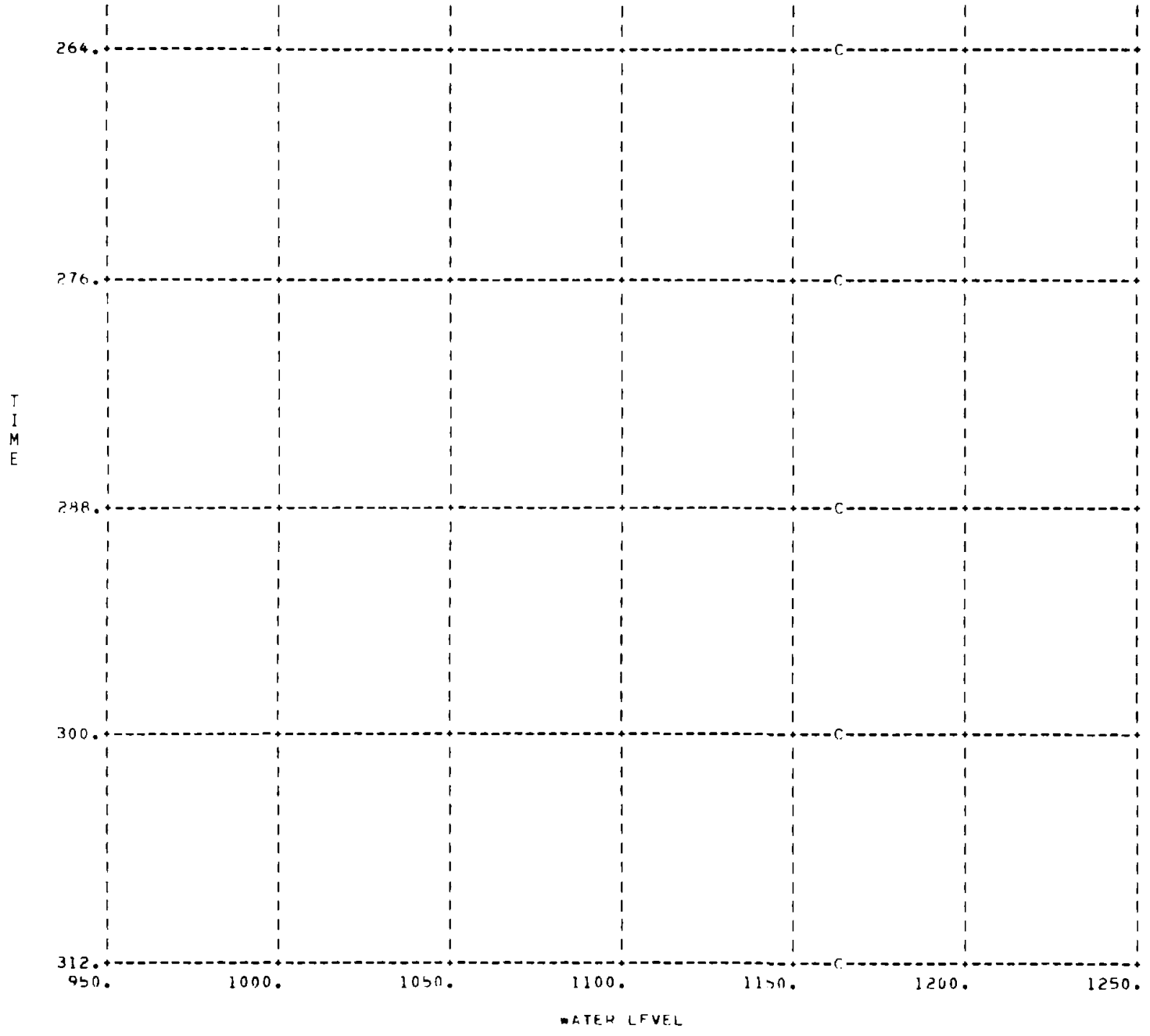
TIME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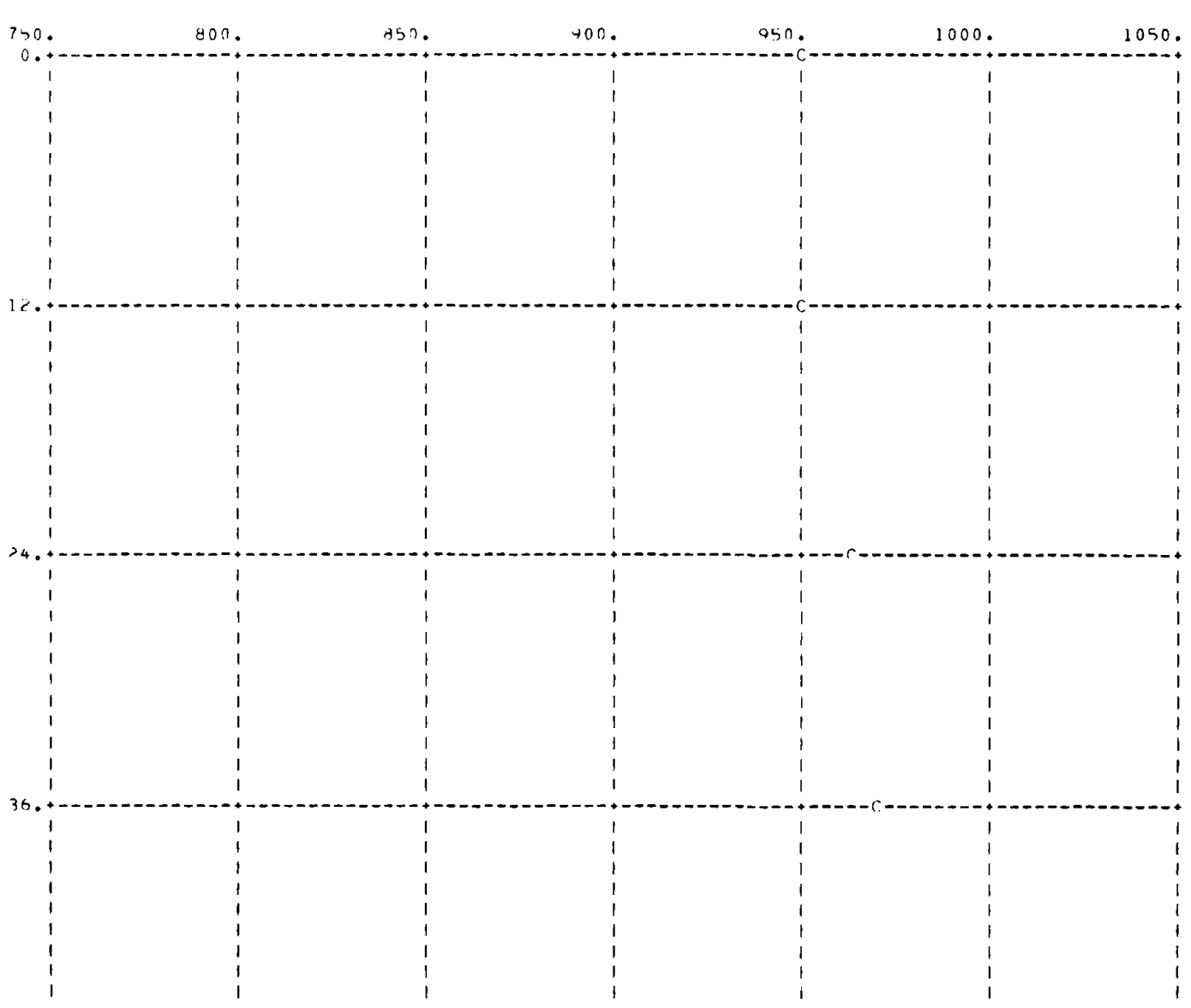
WATER LEVEL

WELL 015/04W-15M02 NODE 78 PERF 24-572 63 PCT UPPER AQ LSD=985

DATE 0/ 0/ 0

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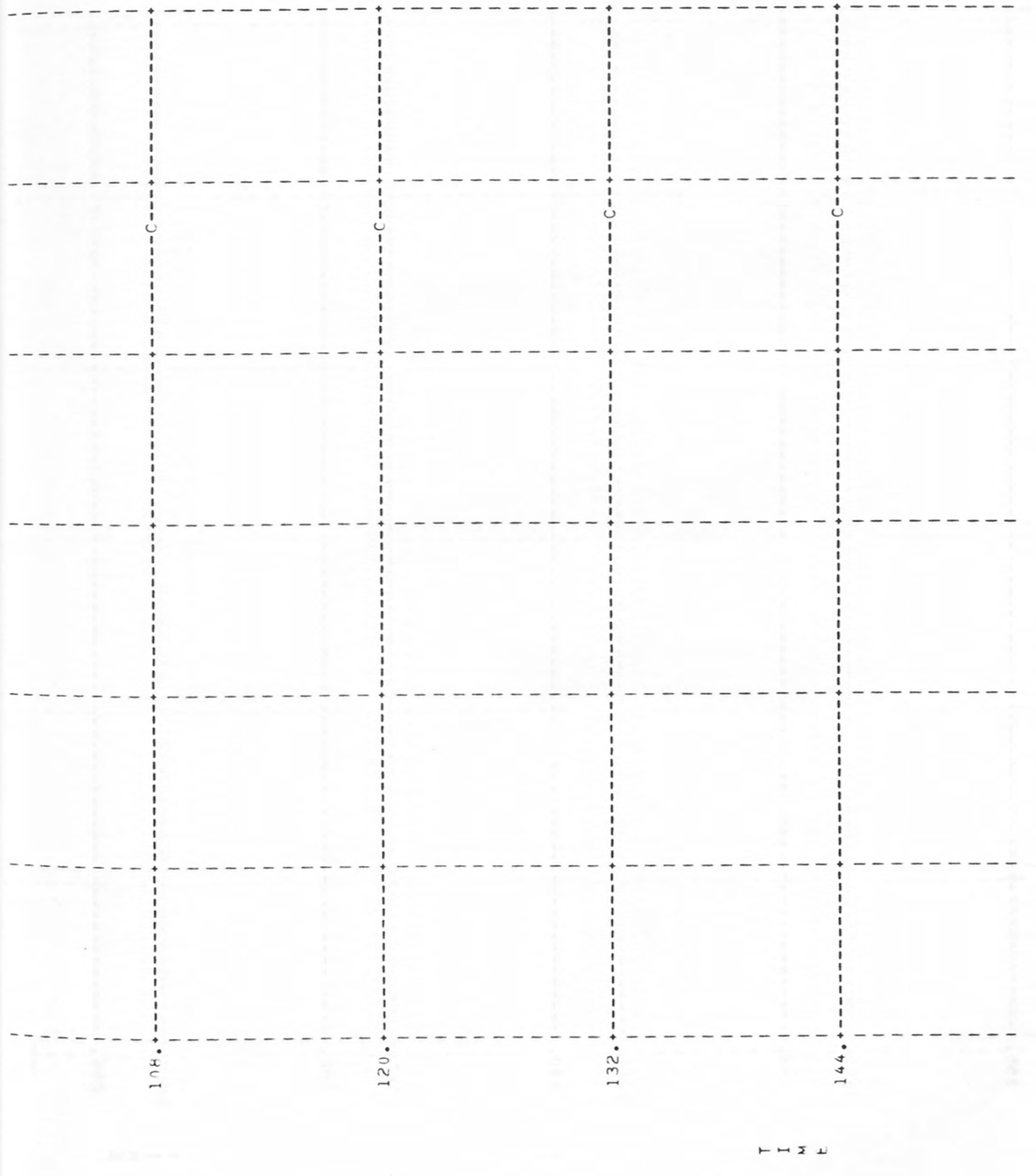
84
96
TIME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132
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TIME

156

168

180

192

204

TIME

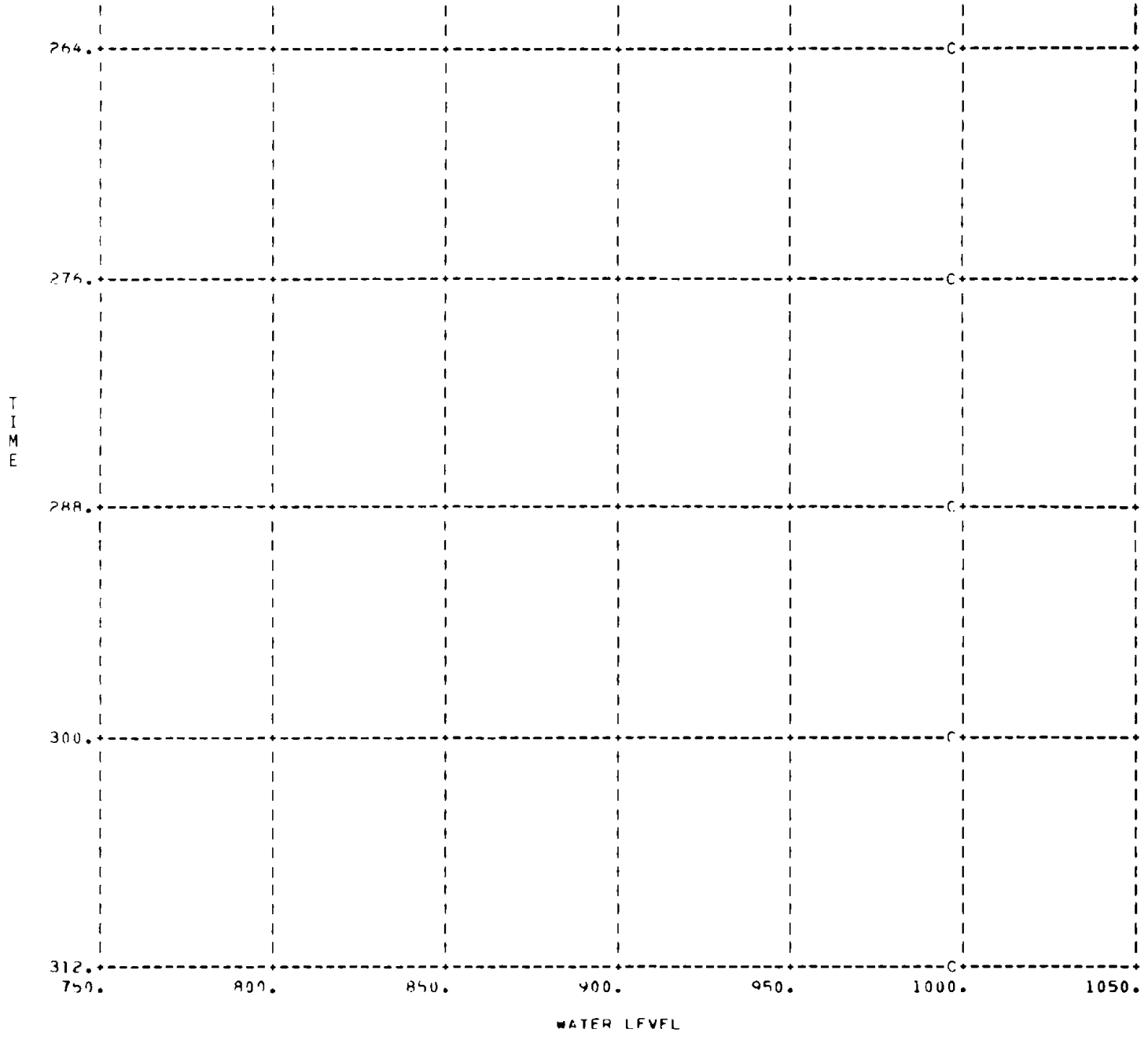
216

228

240

252

TIME


264.
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312.
TIME
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900.
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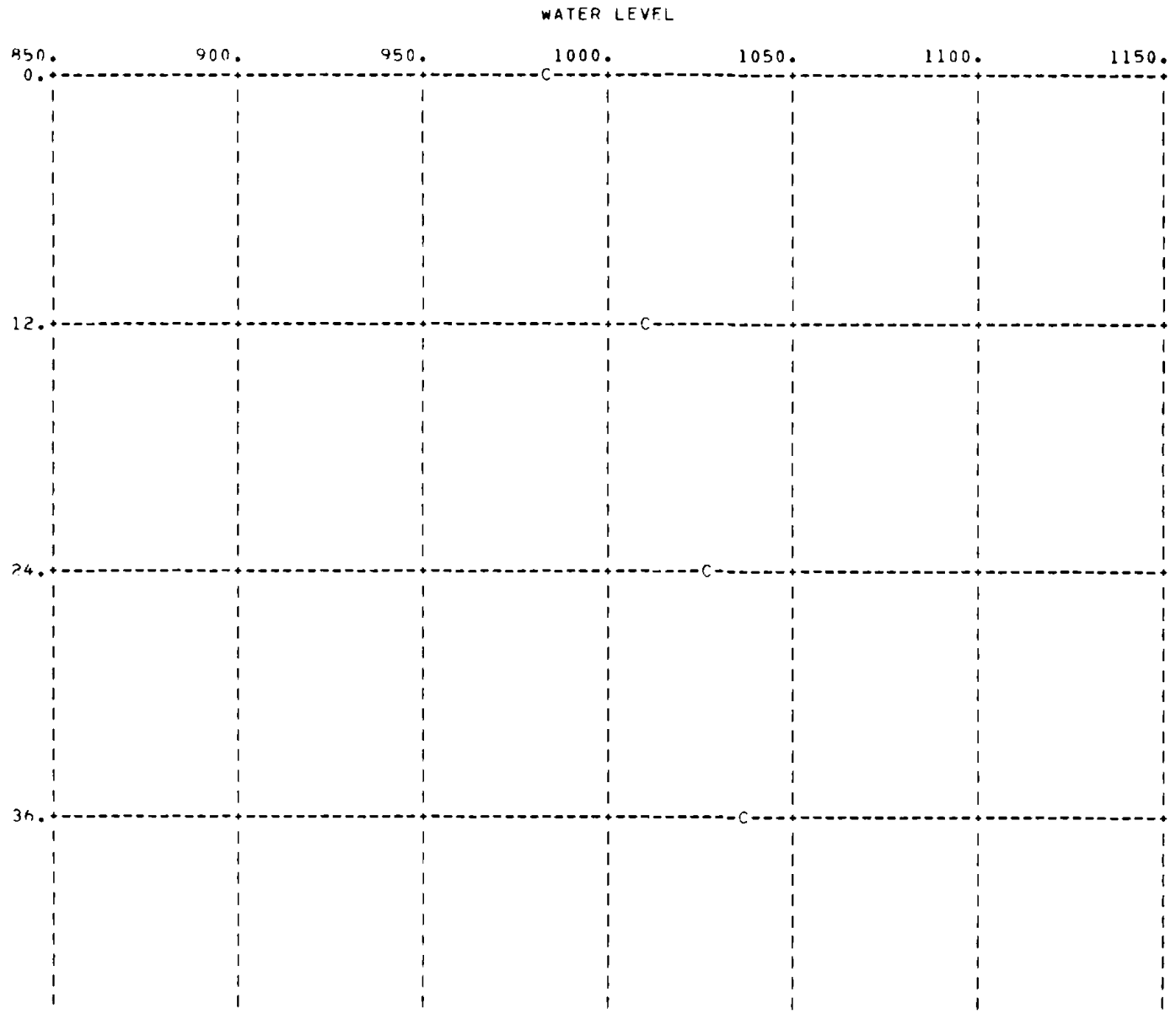
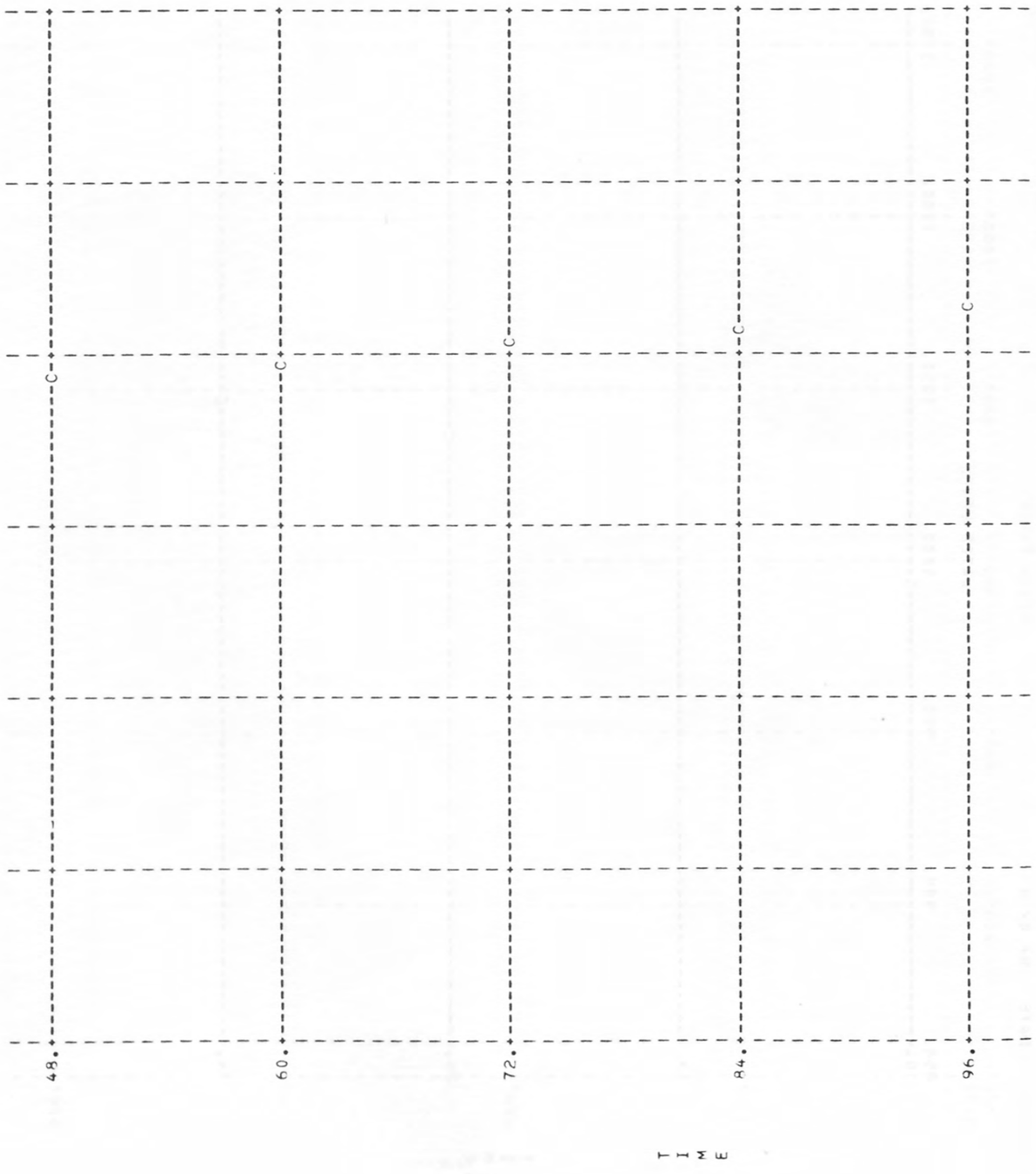
WATER LEVEL

WELL 01N/04W-36Q01 NODE 81 PERF TO TD=696 40 PCT UPPER AQ LSD=1097

DATE 0/ 0/ 0

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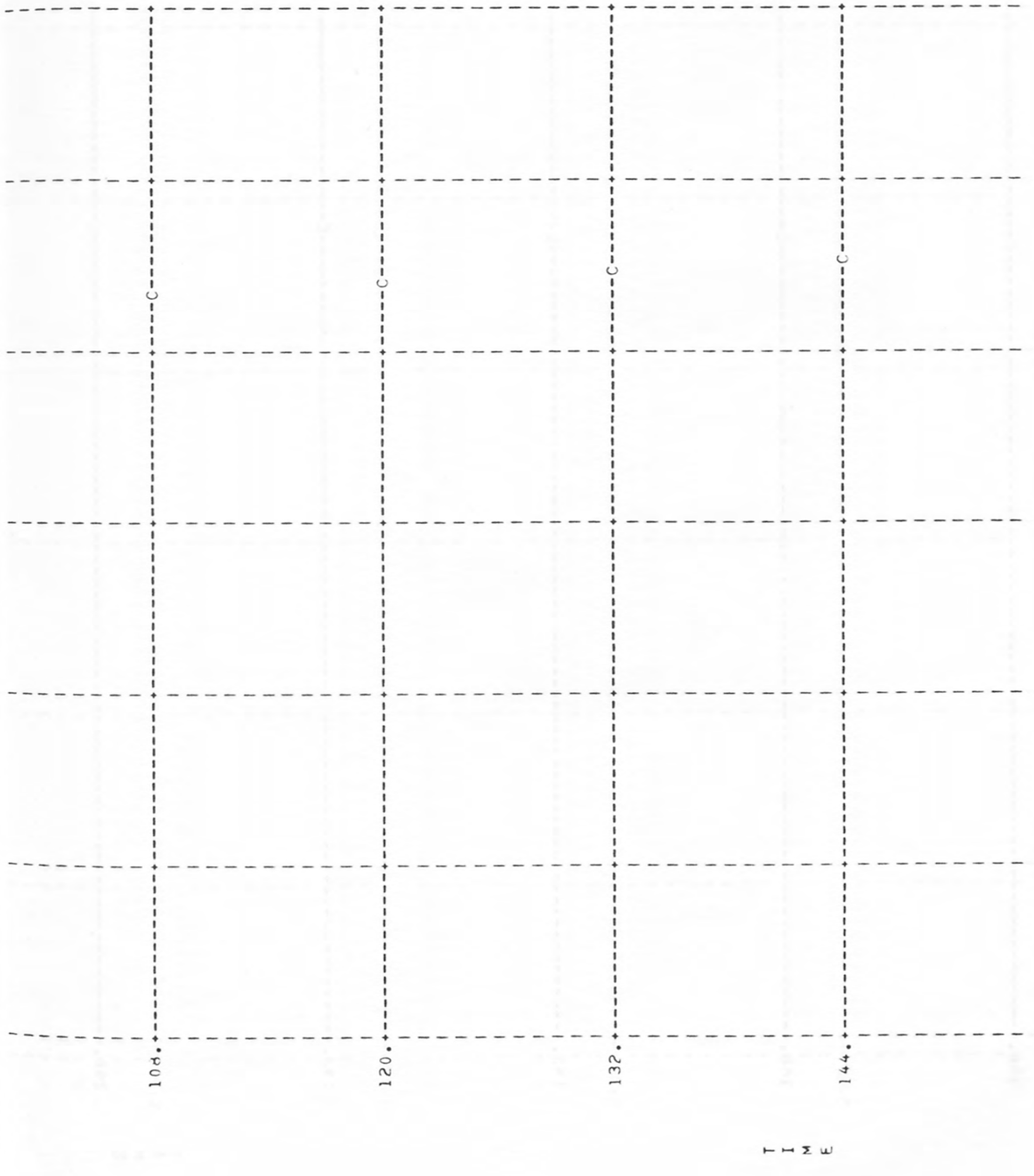
TIME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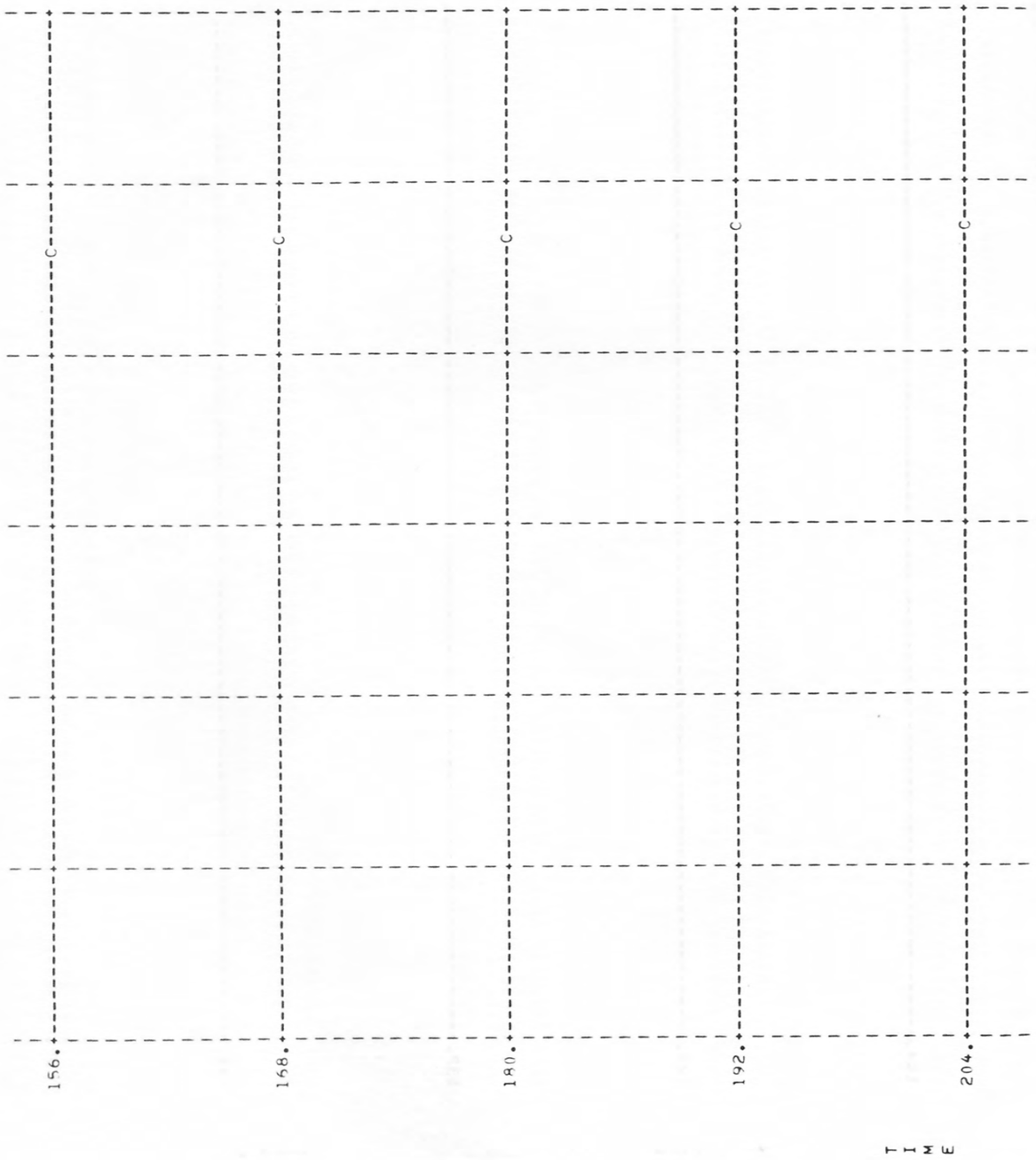
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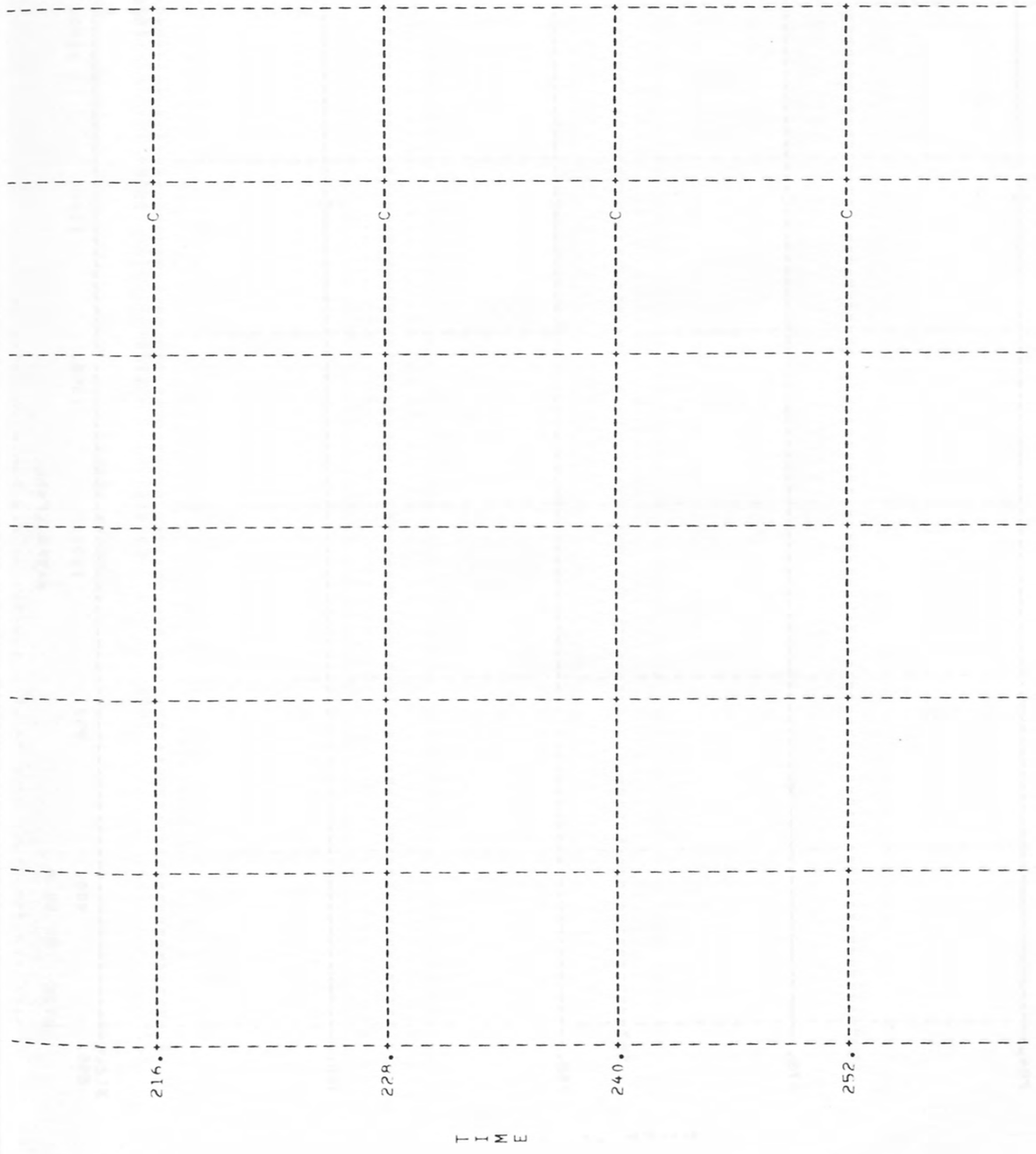
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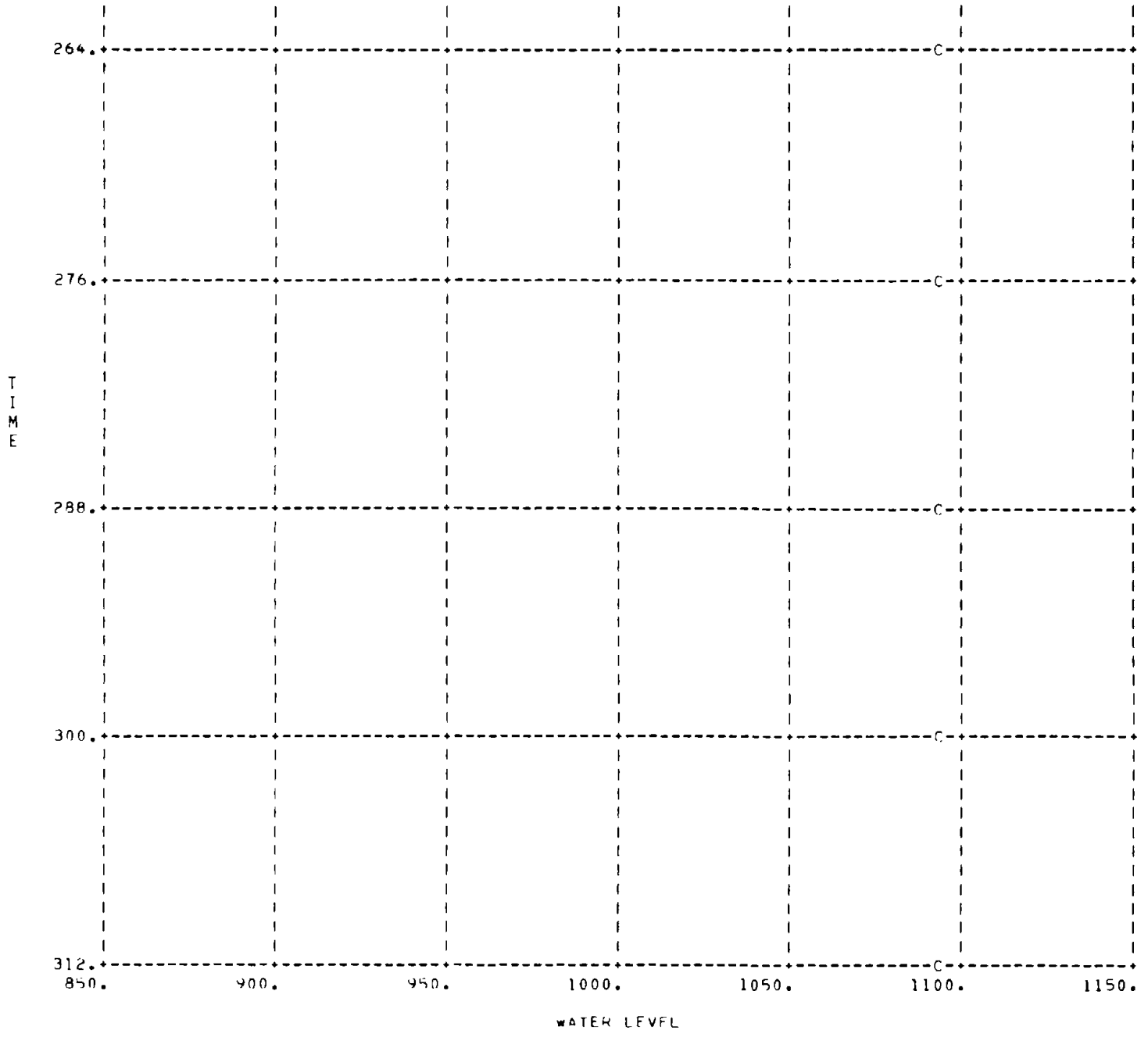
264.
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C
TIME
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900.
950.
1000.
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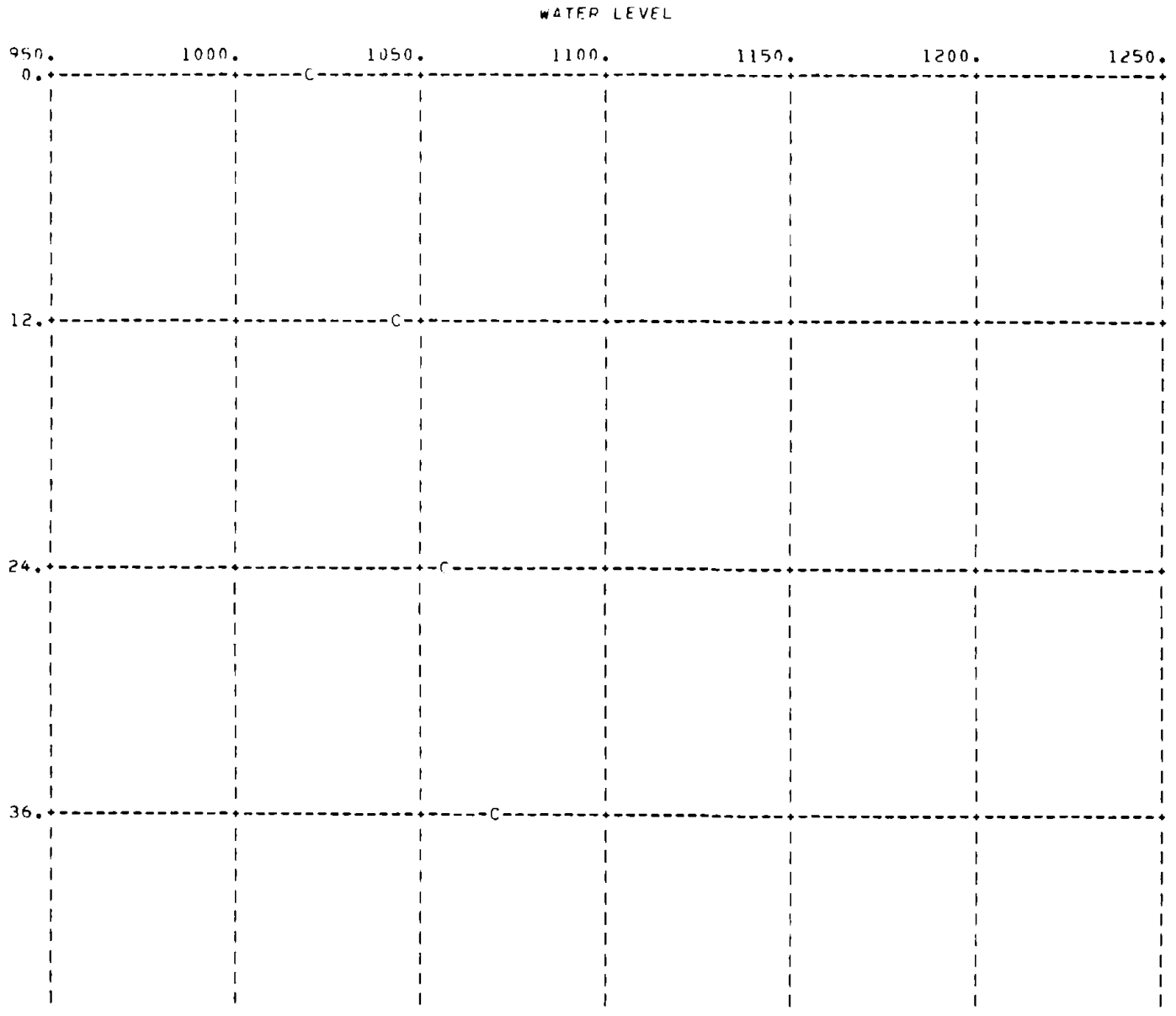
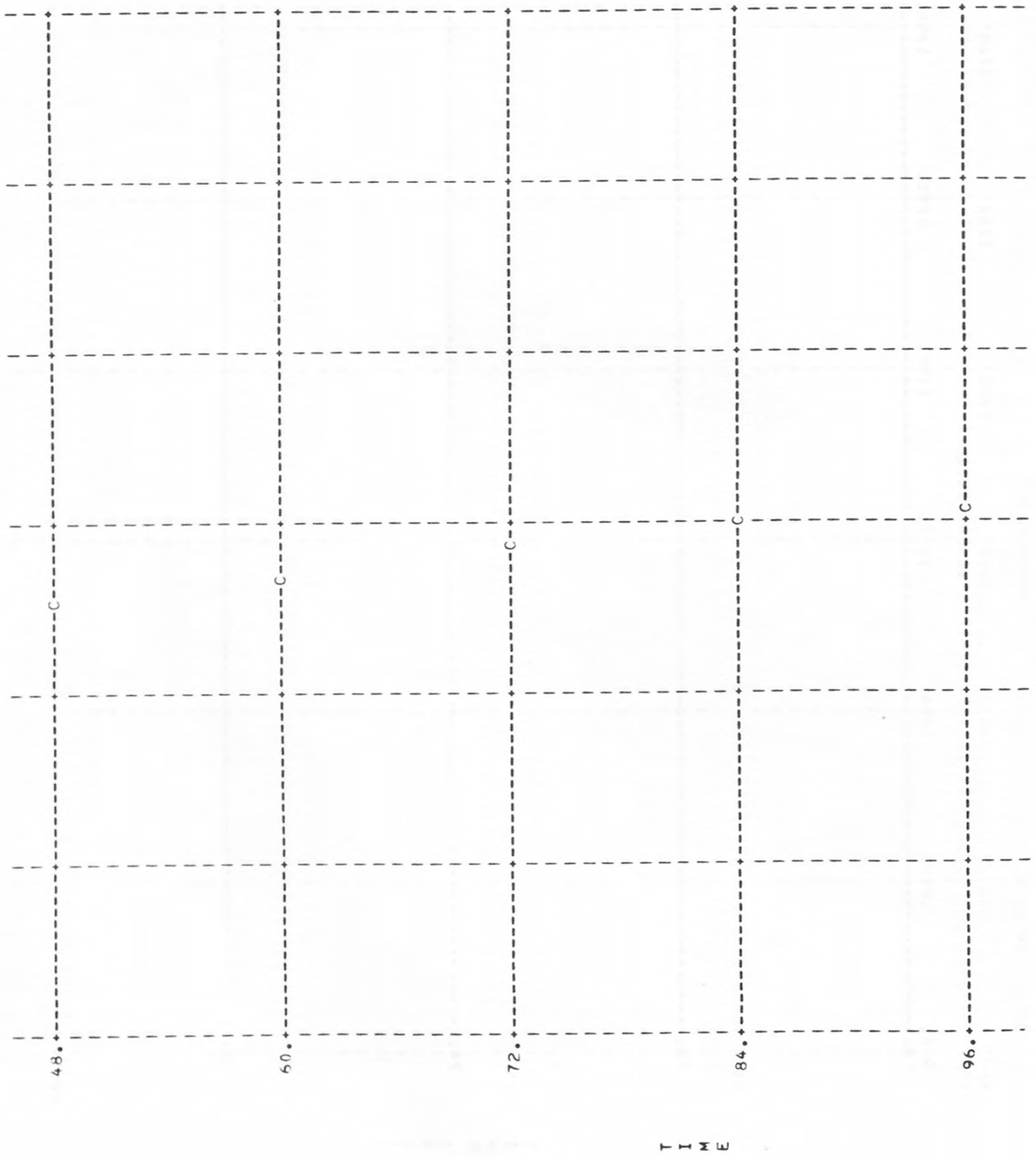
WATER LEVEL

WELL 01N/03W-31H01 NODE 84 PERF 178-381 95 PCT UPPER AQ LSD=1228

DATE 0/ 0/ 0




C
C
C
C
C
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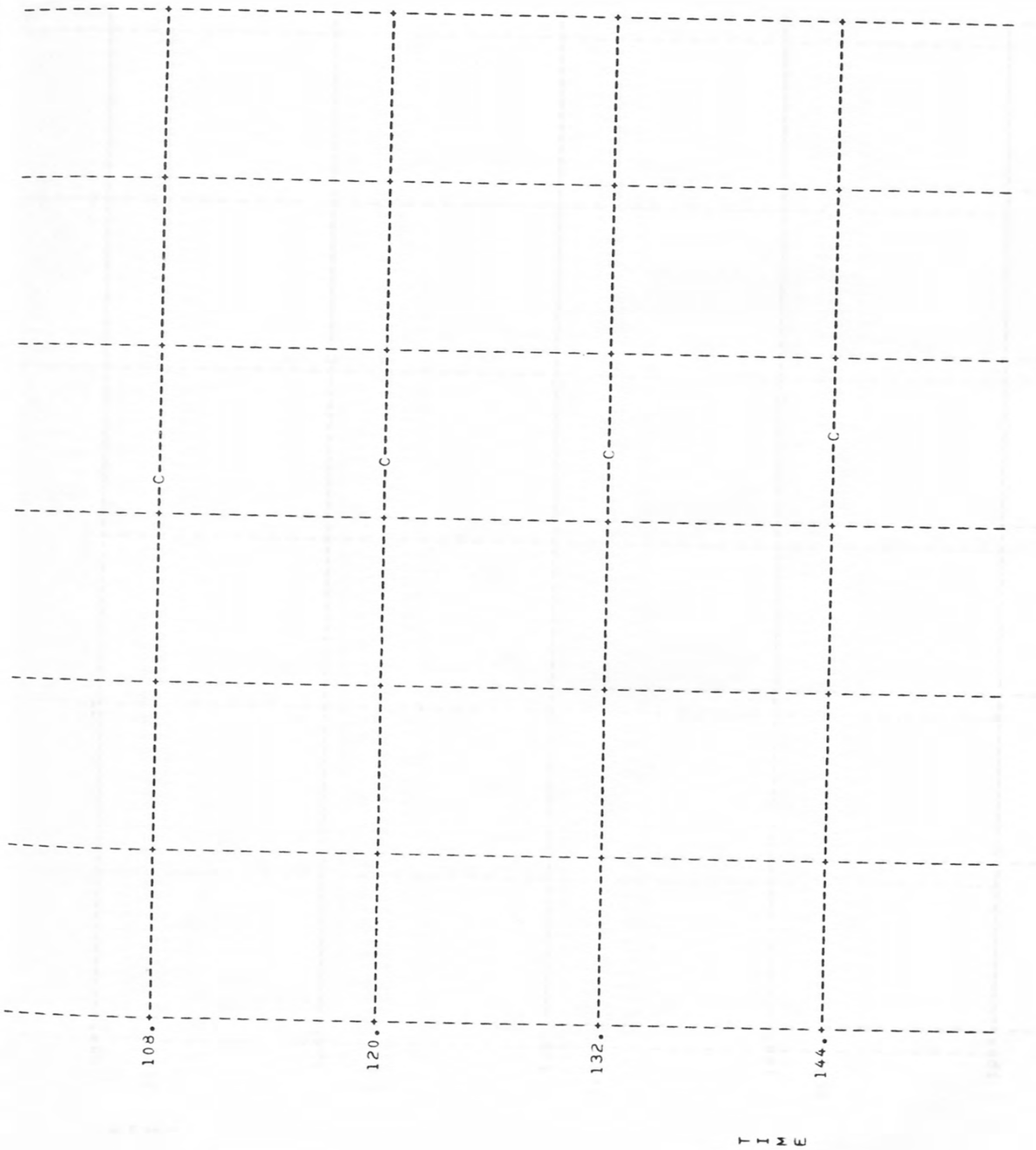
TIME


C
C
C
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144.
TIME

156

168

180

192

204

TIME

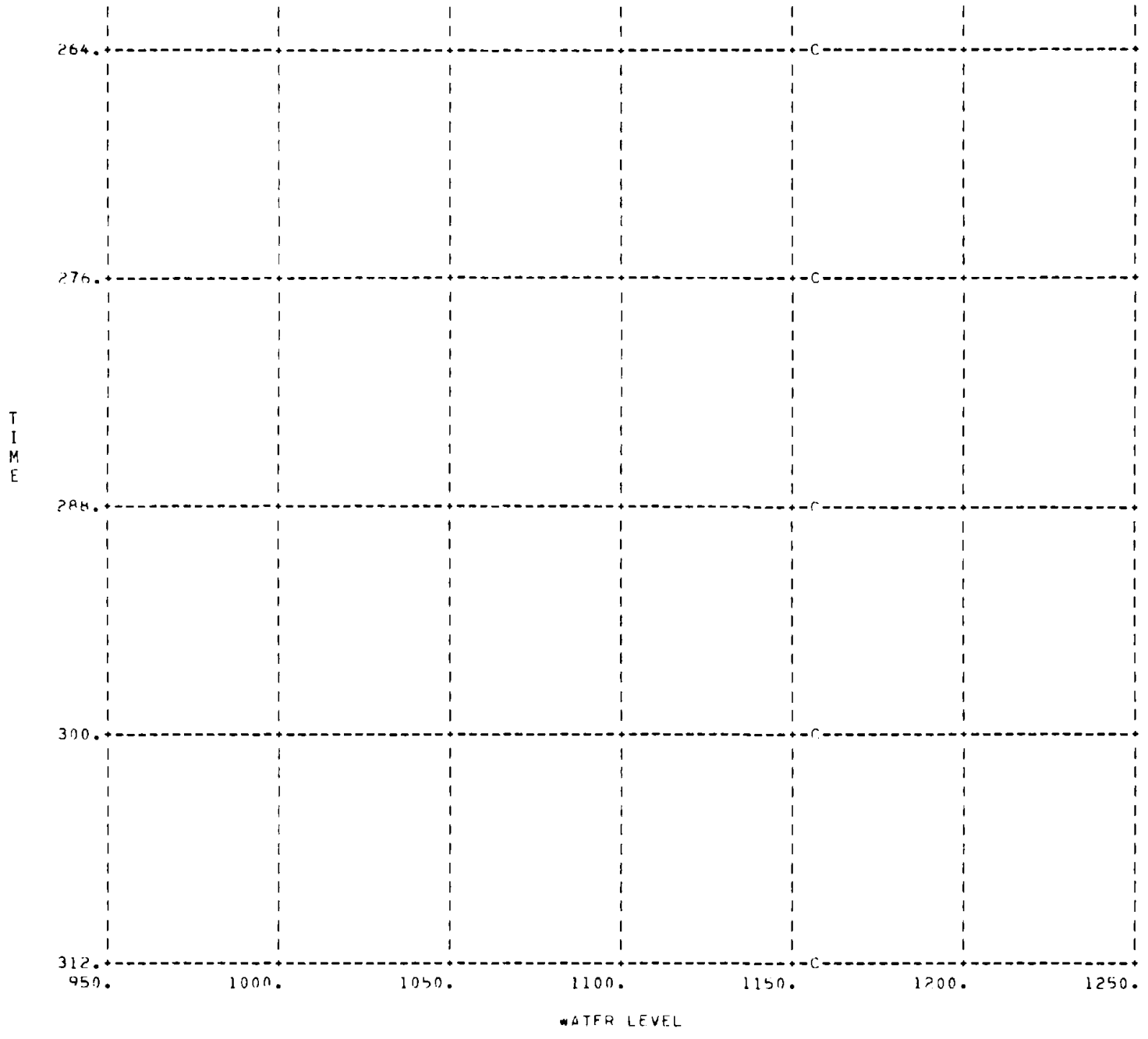
216

228

240

252

TIME


264.
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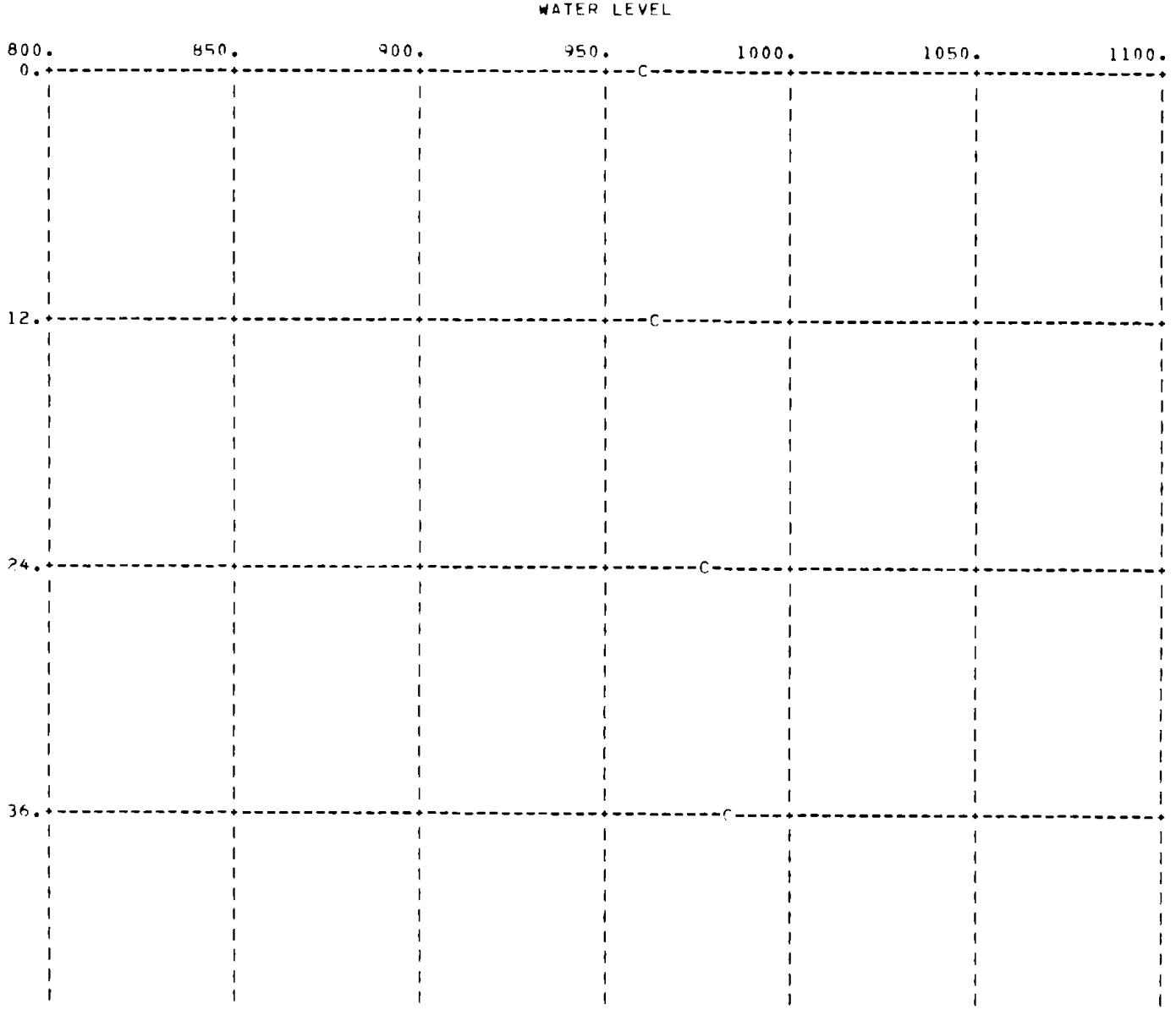
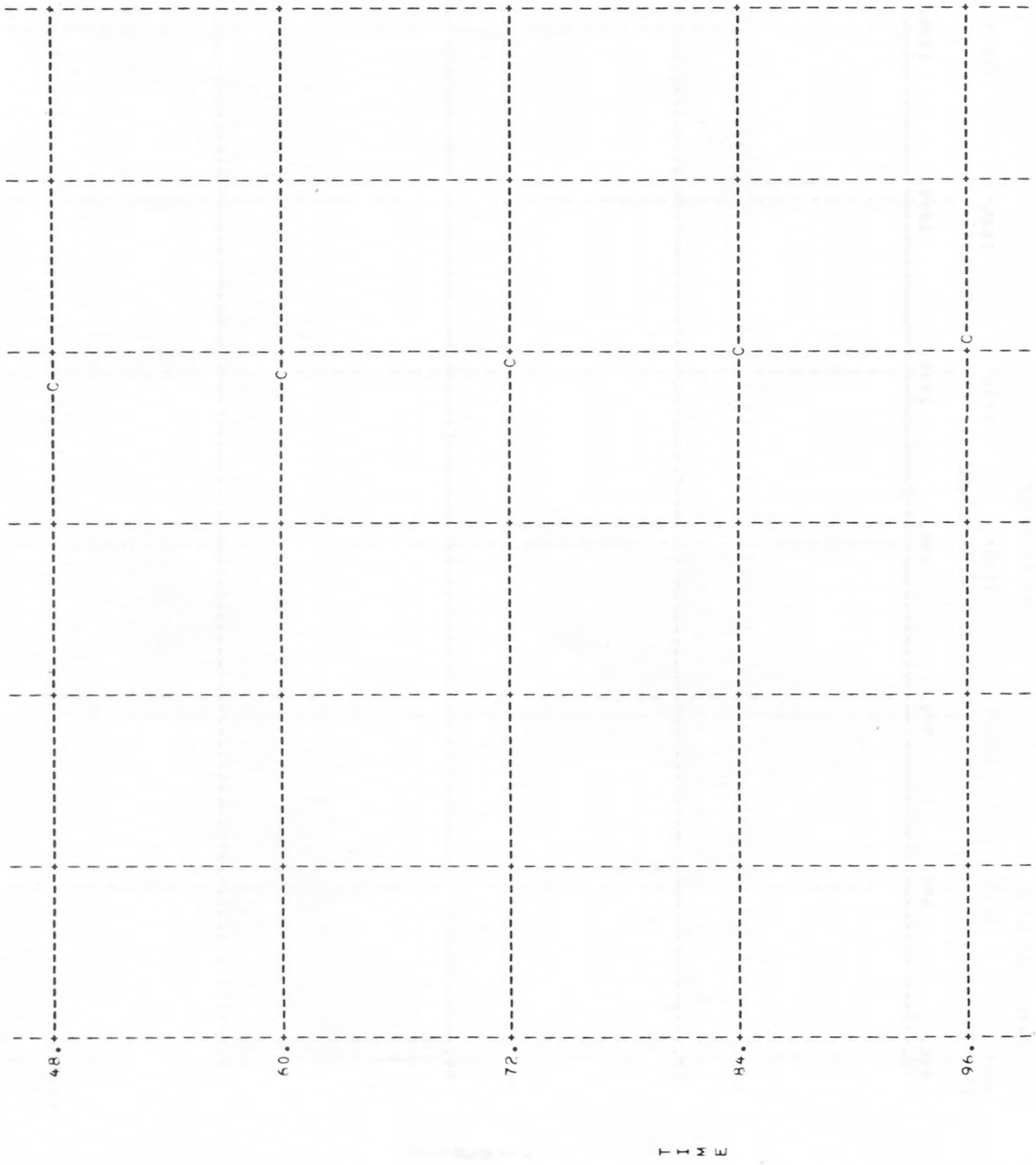
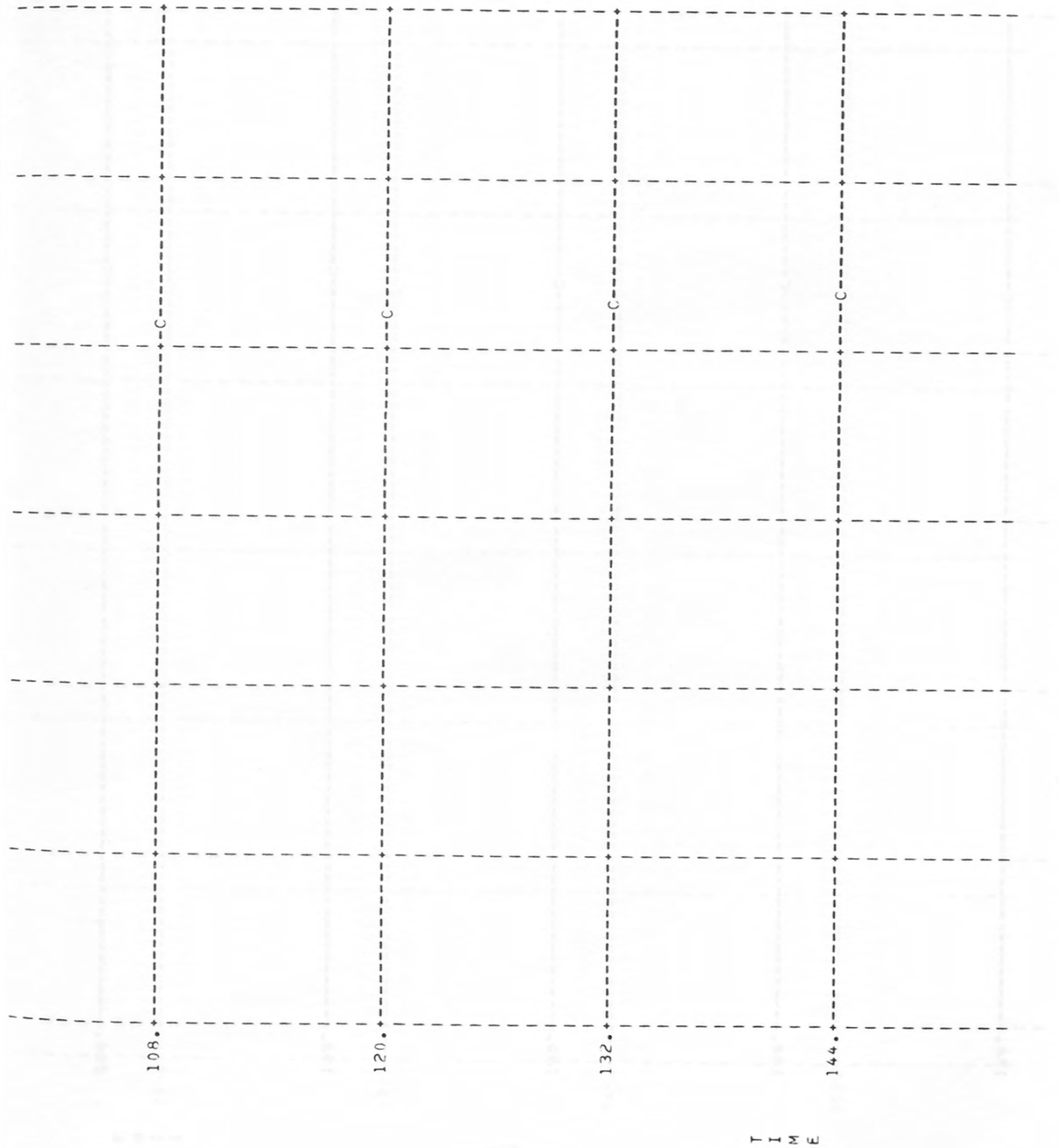
312.
950.
1000.
1050.
1100.
1150.
1200.
1250.
TIME
WATER LEVEL

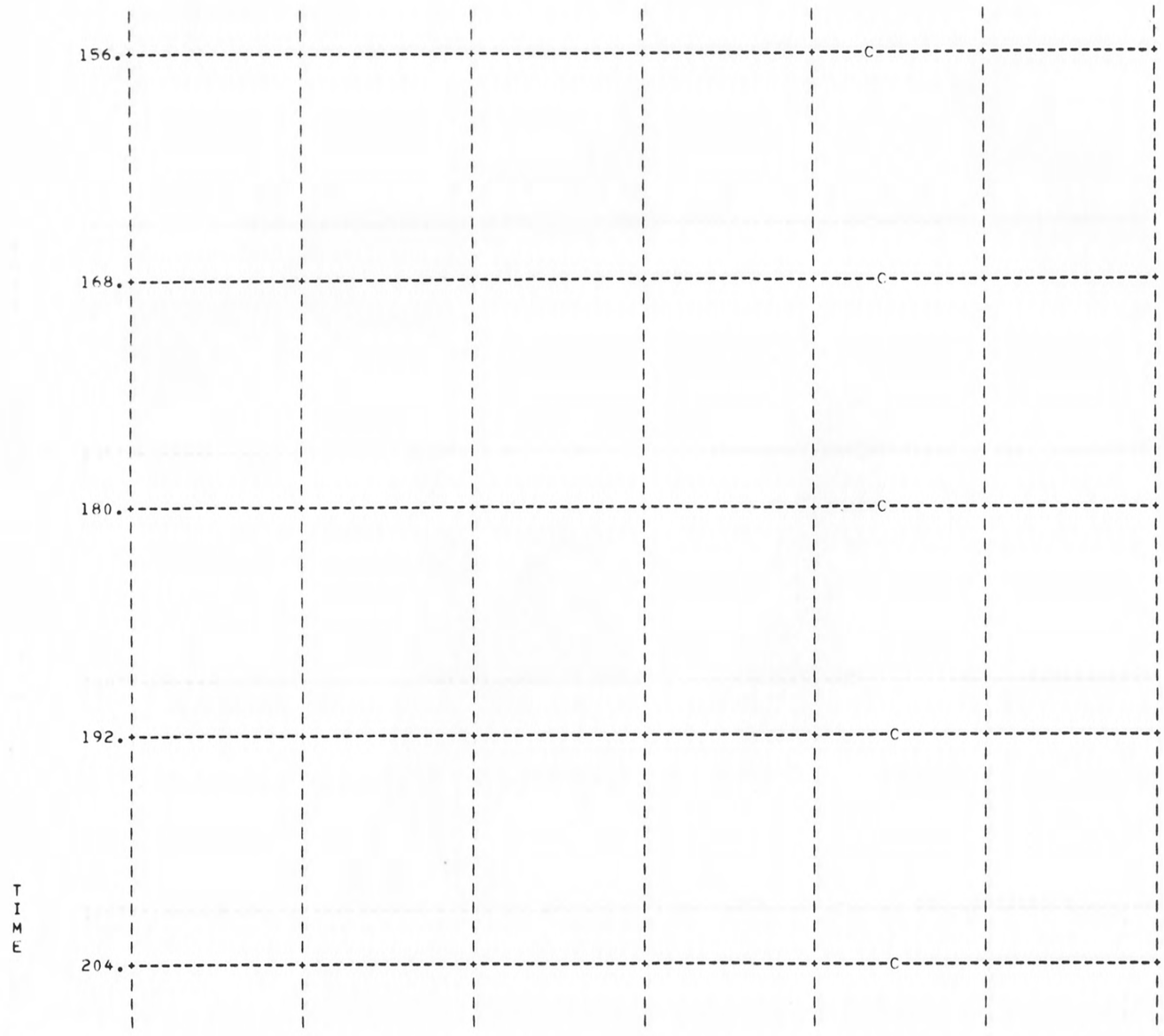
WELL 01S/04W-14P02 NODE 88 PERF UNK TO 580 70 PCT UPPER AQ LSD=1023

DATE 0/ 0/ 0




48.
60.
72.
84.
96.
TIME


108.
120.
132.
144.
TIME



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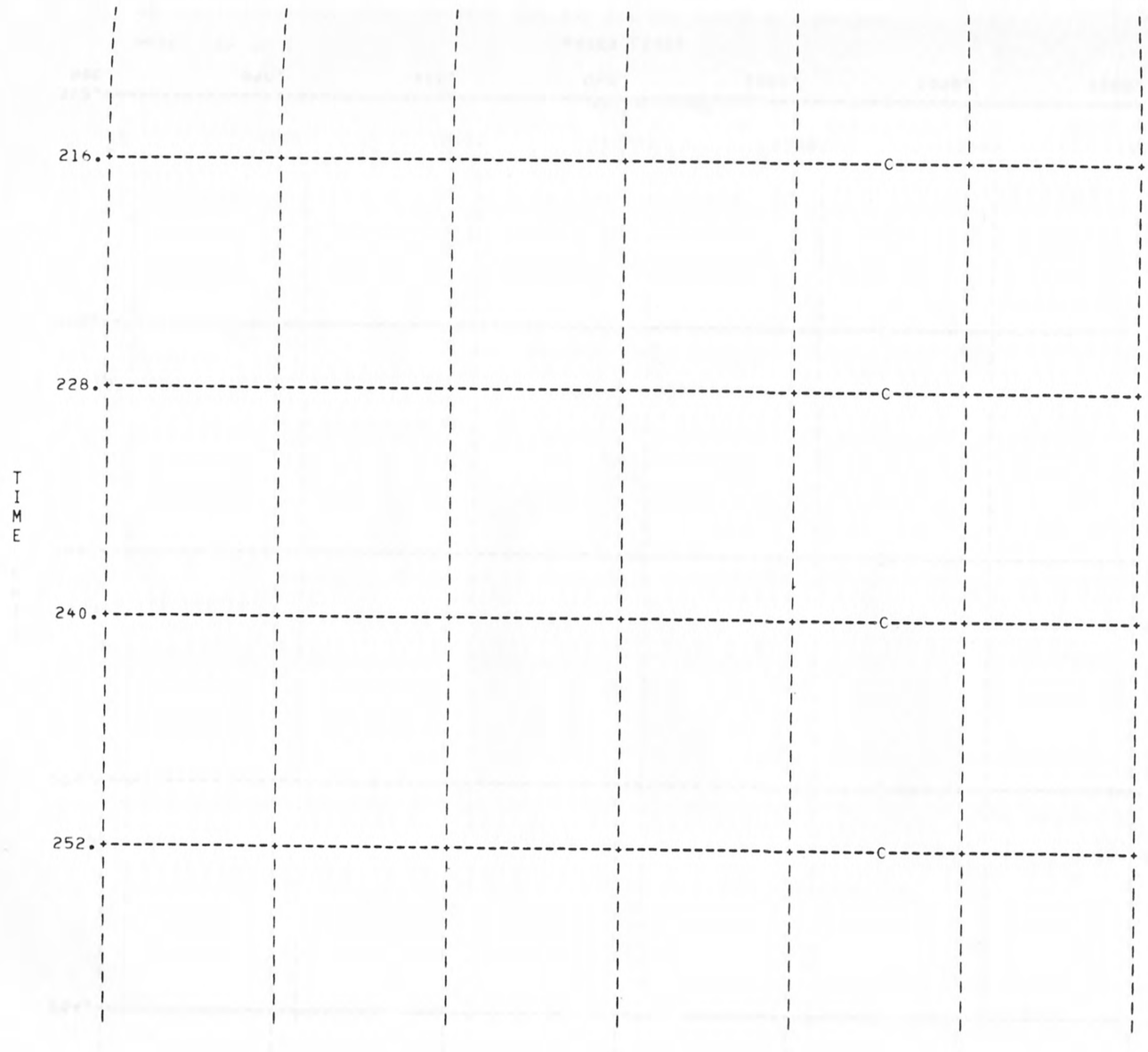

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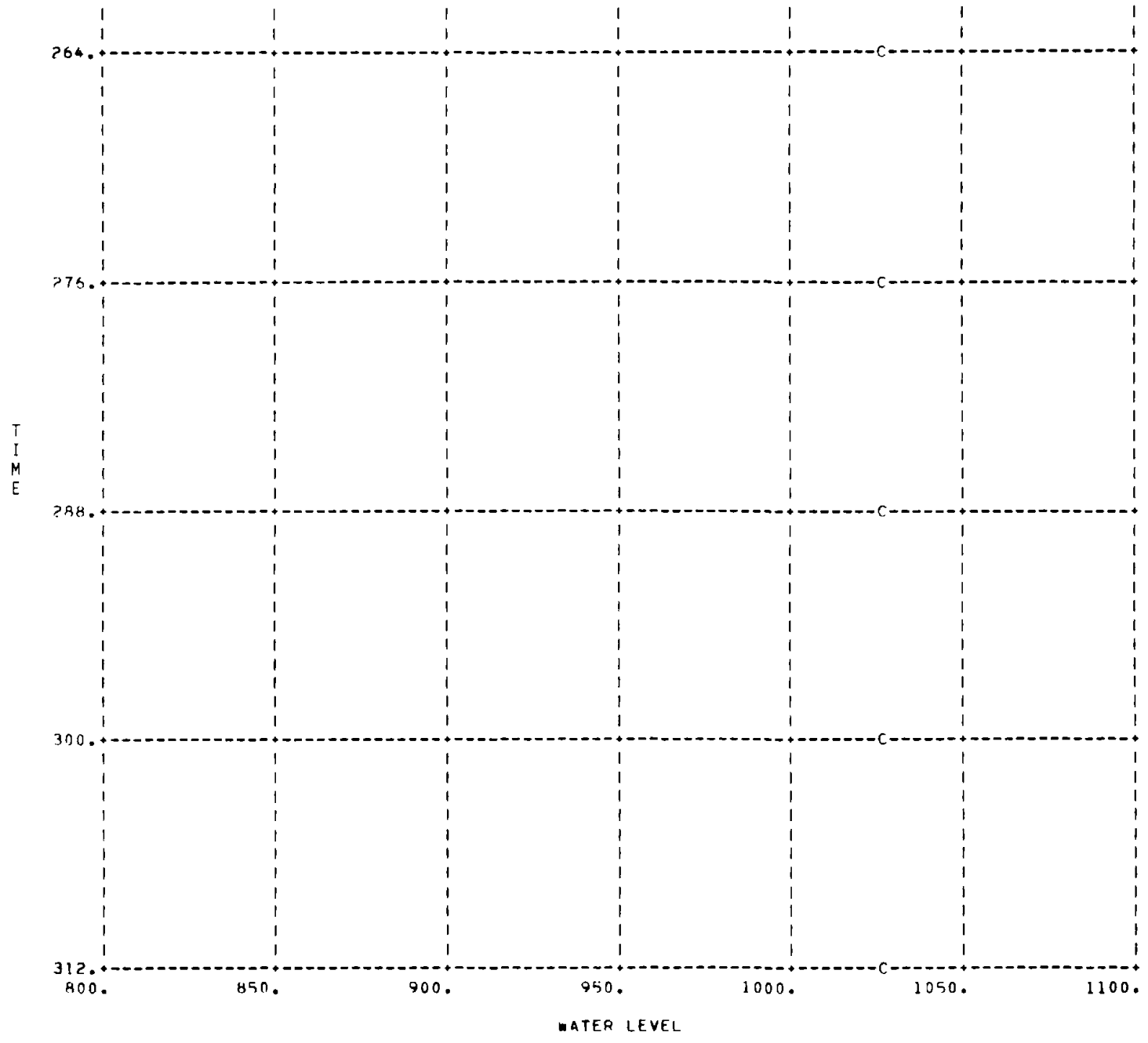
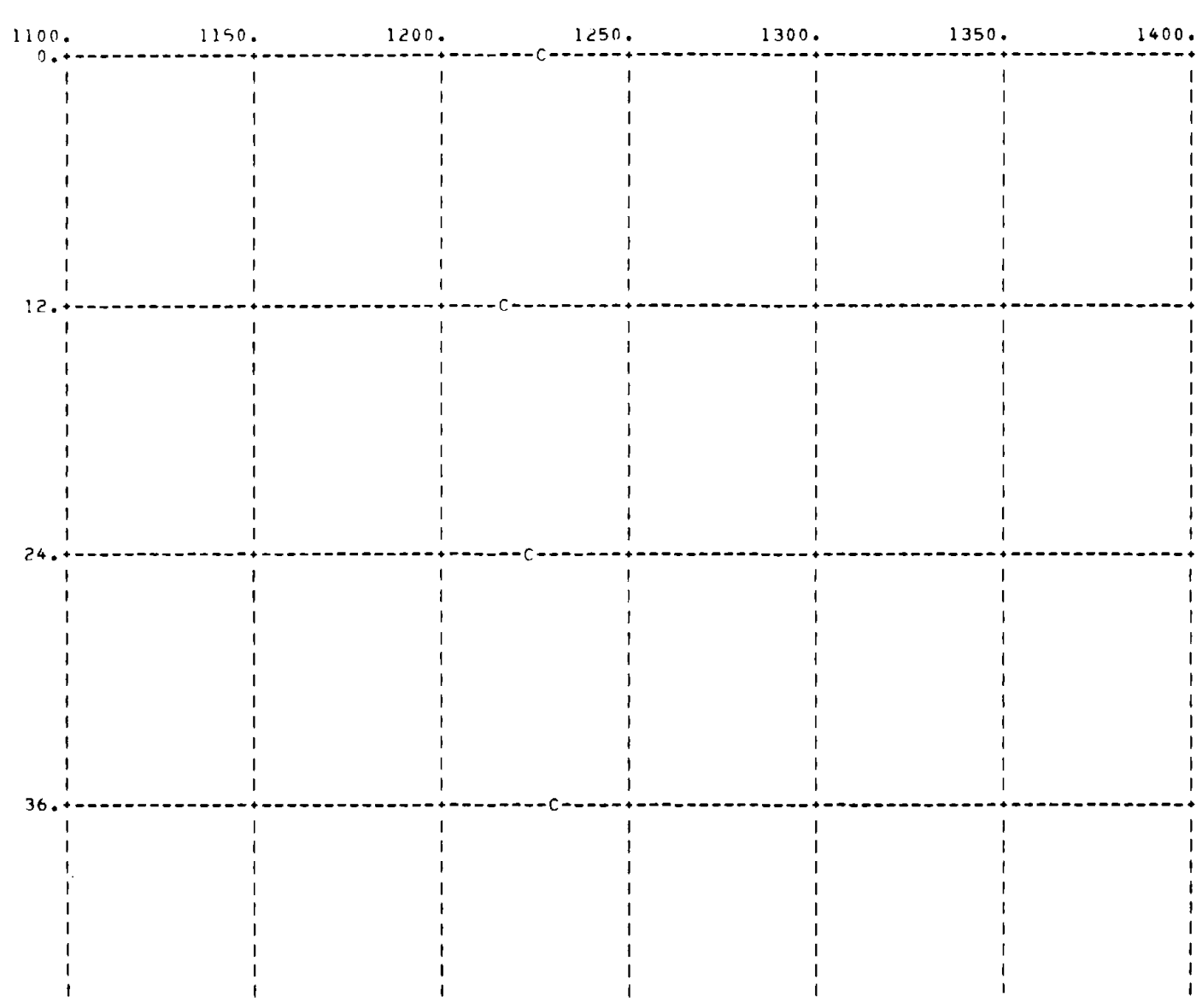

264.
276.
288.
300.
312.
TIME
C
800.
850.
900.
950.
1000.
1050.
1100.
WATER LEVEL

WELL 01S/03W-02J01 NODE 108 PERF 118-232 100 PCT UPPER AQ LSD=1397

DATE 0/ 0/ 0



48

60

72

84

96

TIME

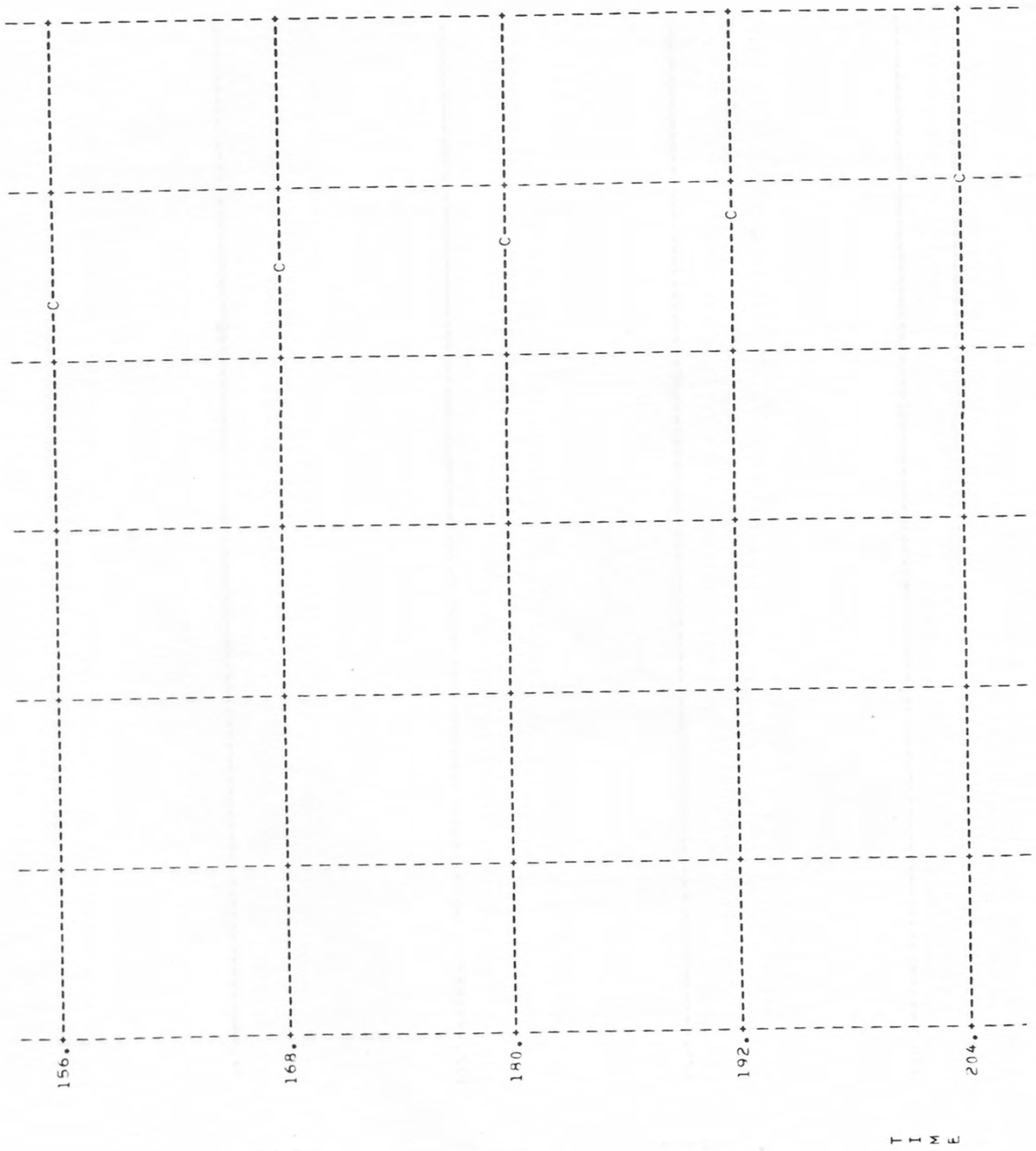
108

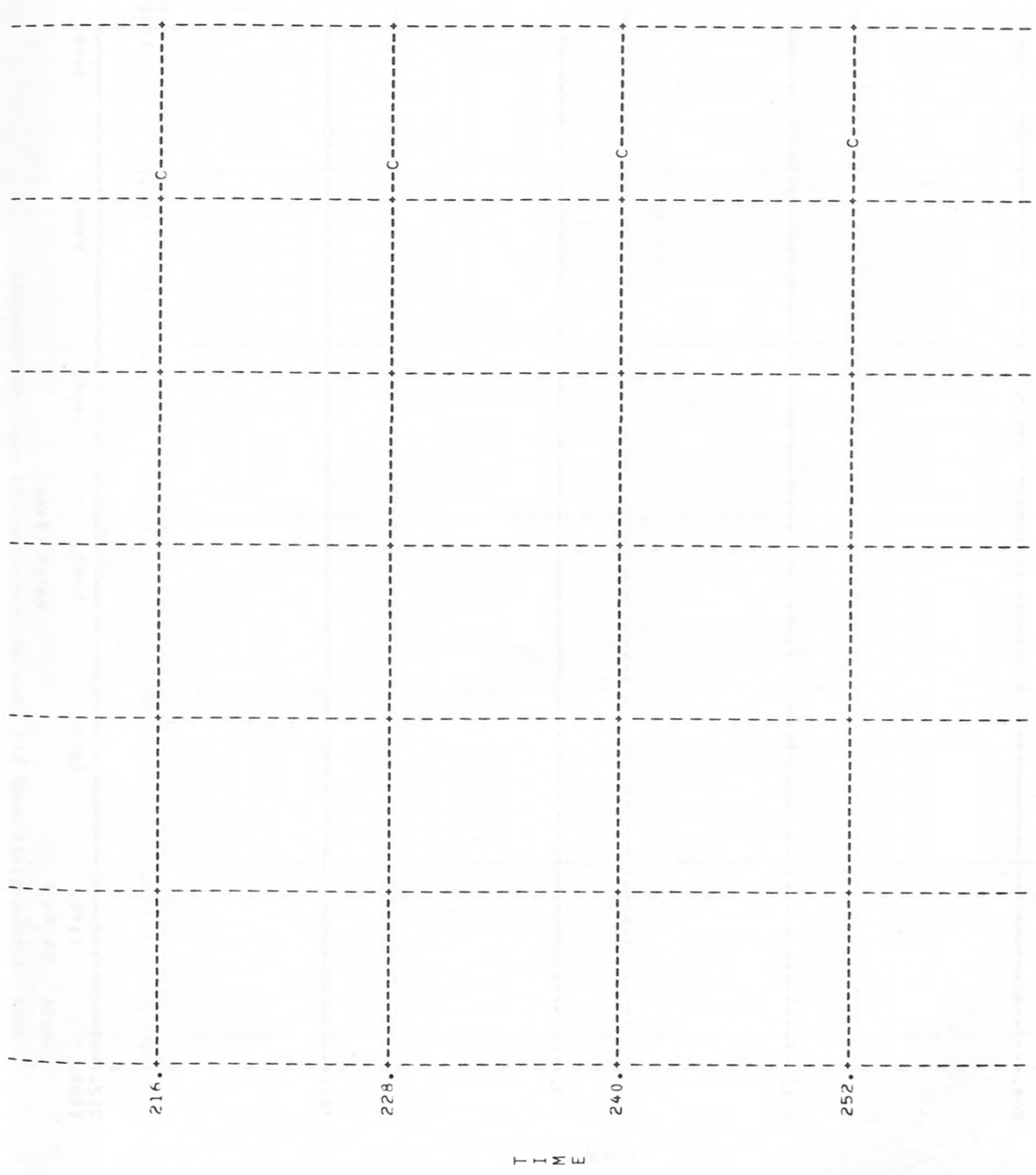
120

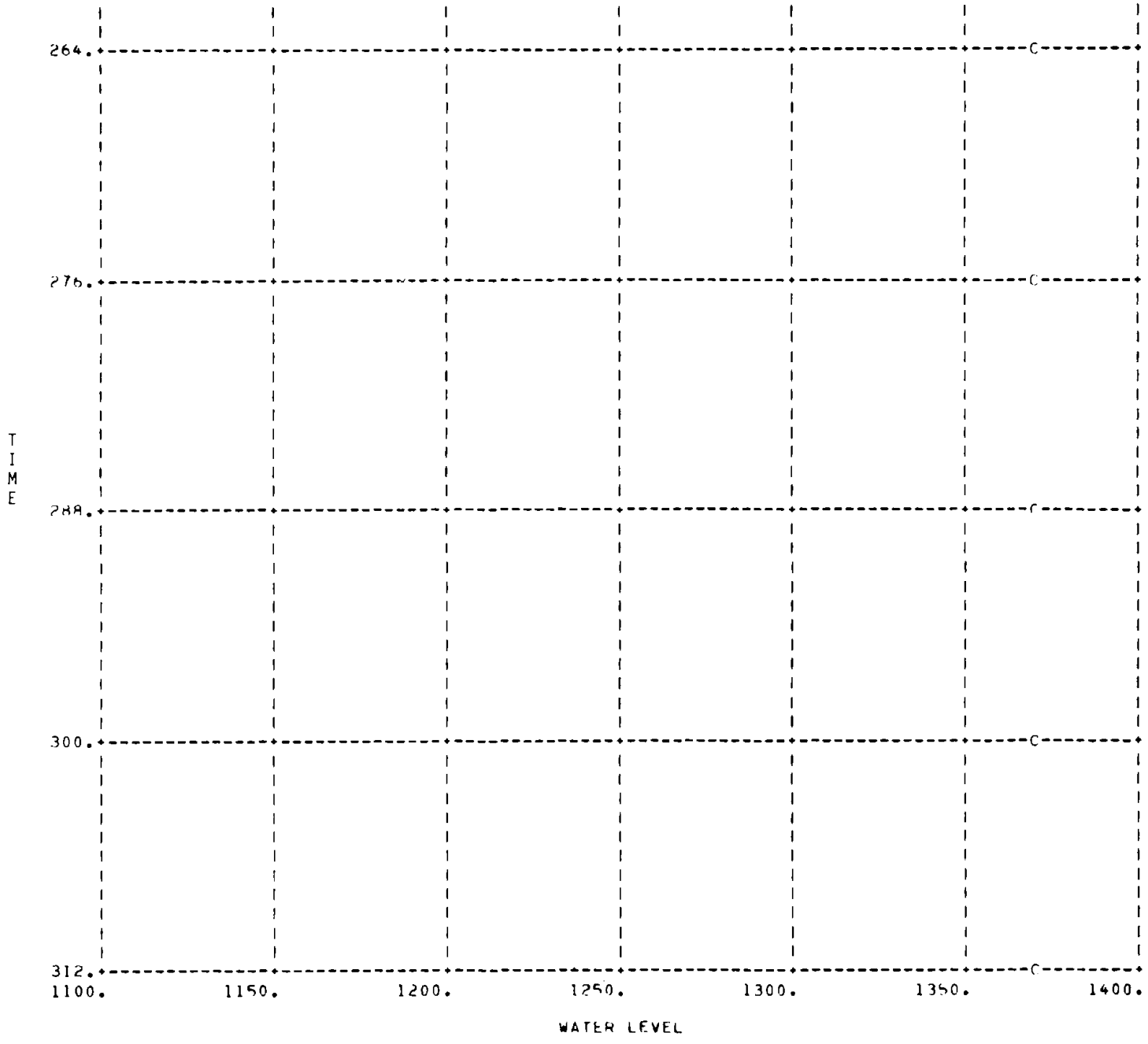
132

144

TIME


156
168
180
192
204
TIME


216
228
240
252
TIME


264.
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300.
312.
TIME
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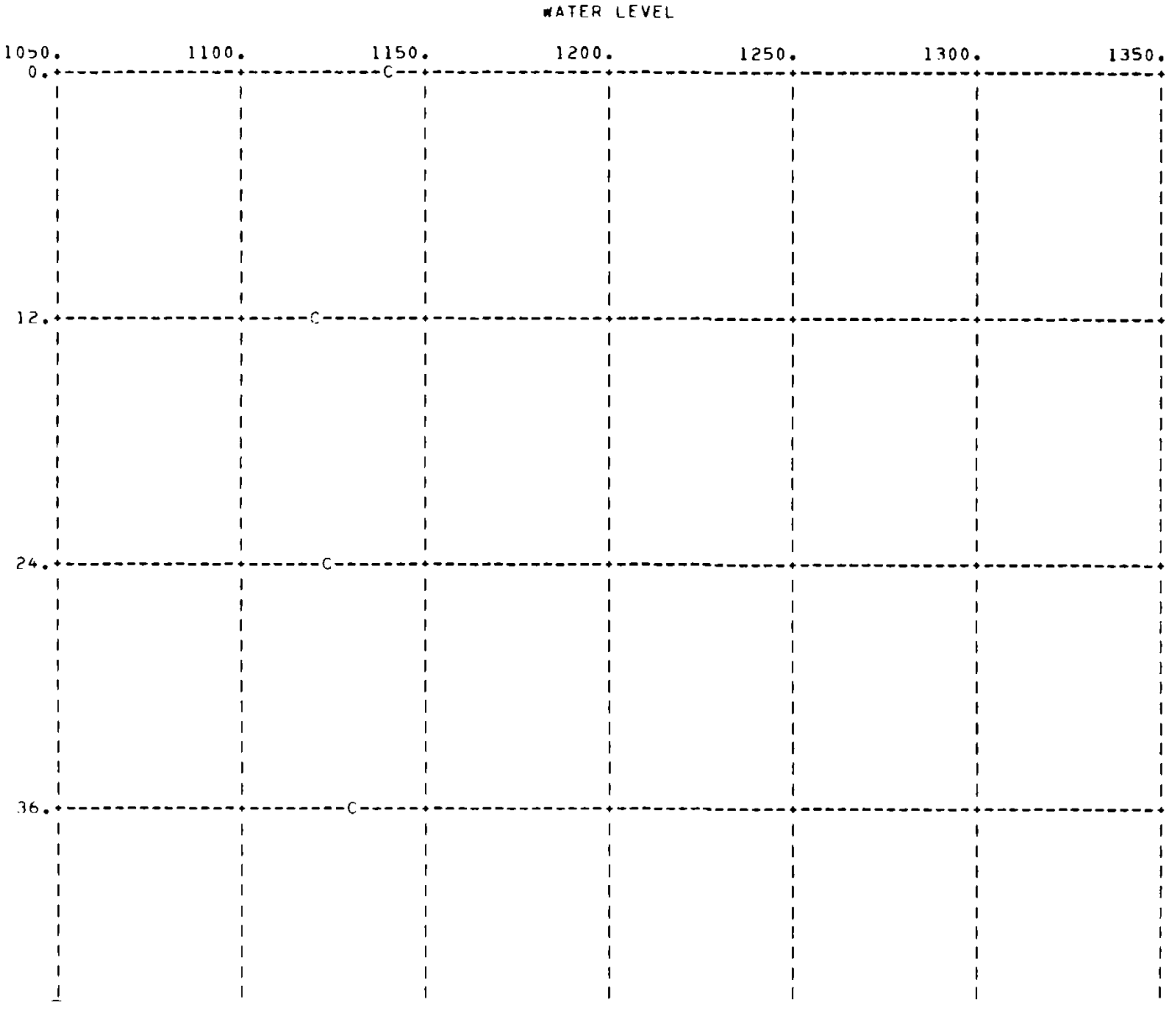
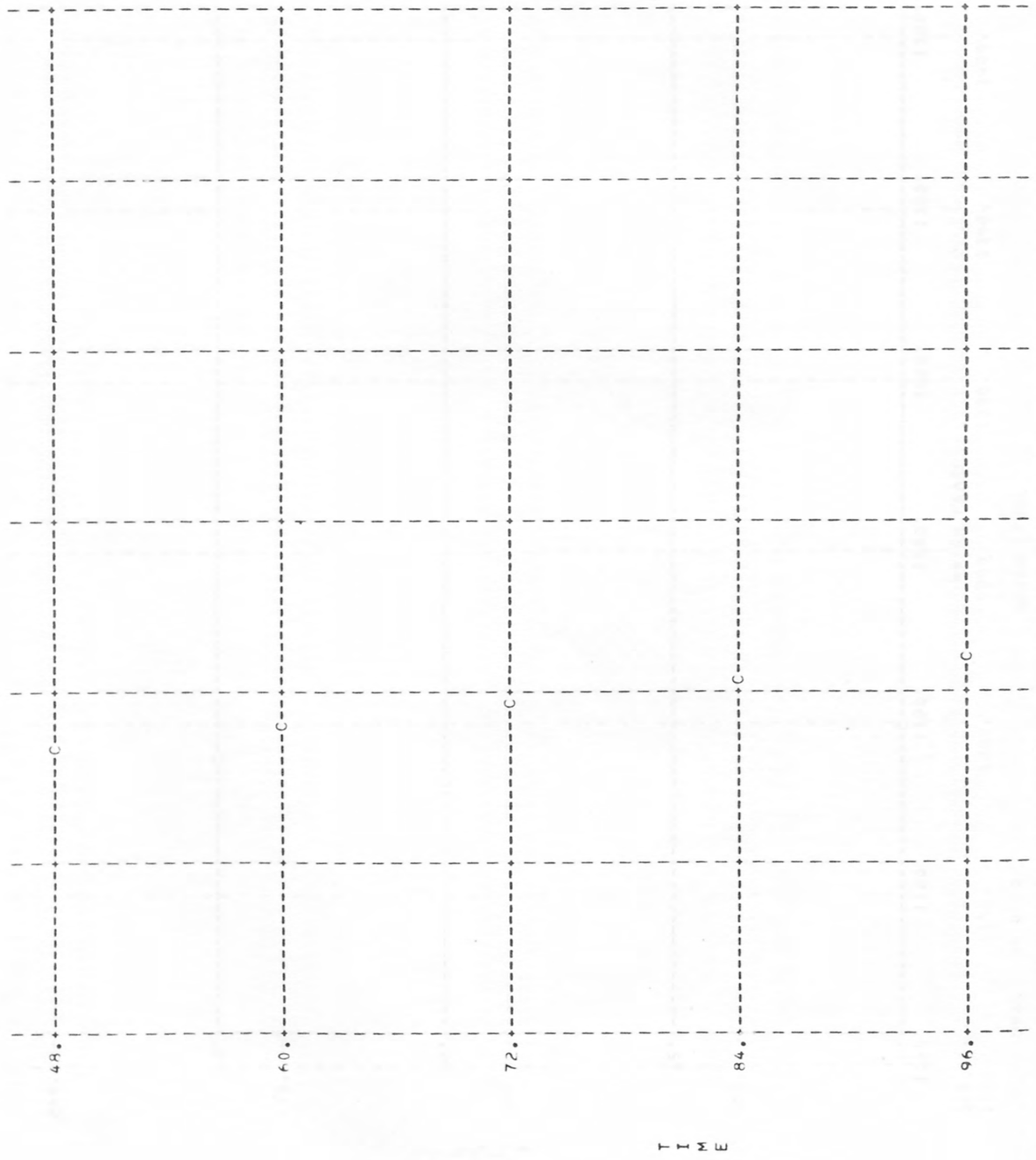
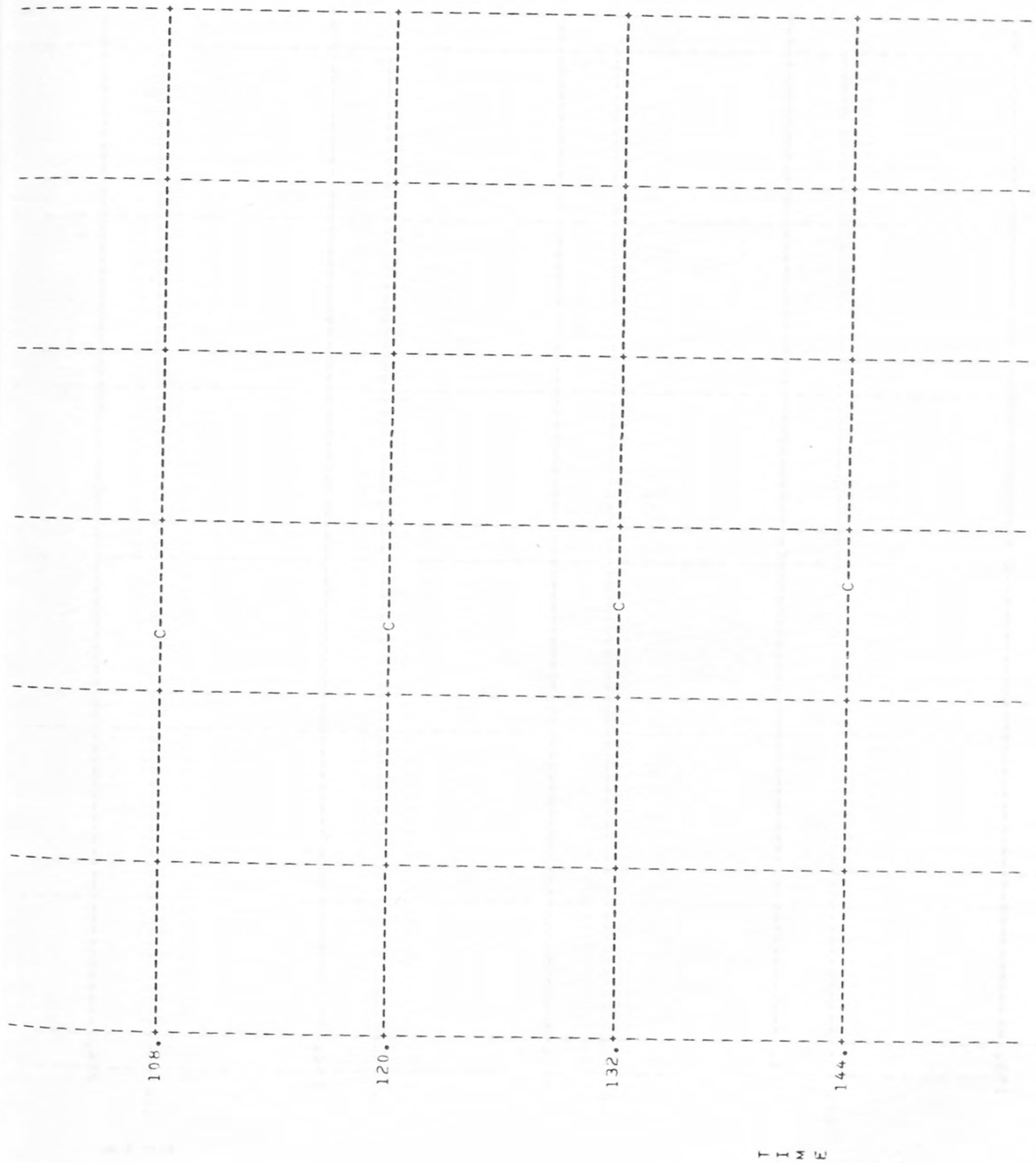
1150.
1200.
1250.
1300.
1350.
1400.
WATER LEVEL

WELL 01S/03W-21H01 NODE 121 PERF TO TD=426 75 PCT UPPER AQ LSD=1318

DATE 0/ 0/ 0




C
C
C
C
C
48.
60.
72.
84.
96.
TIME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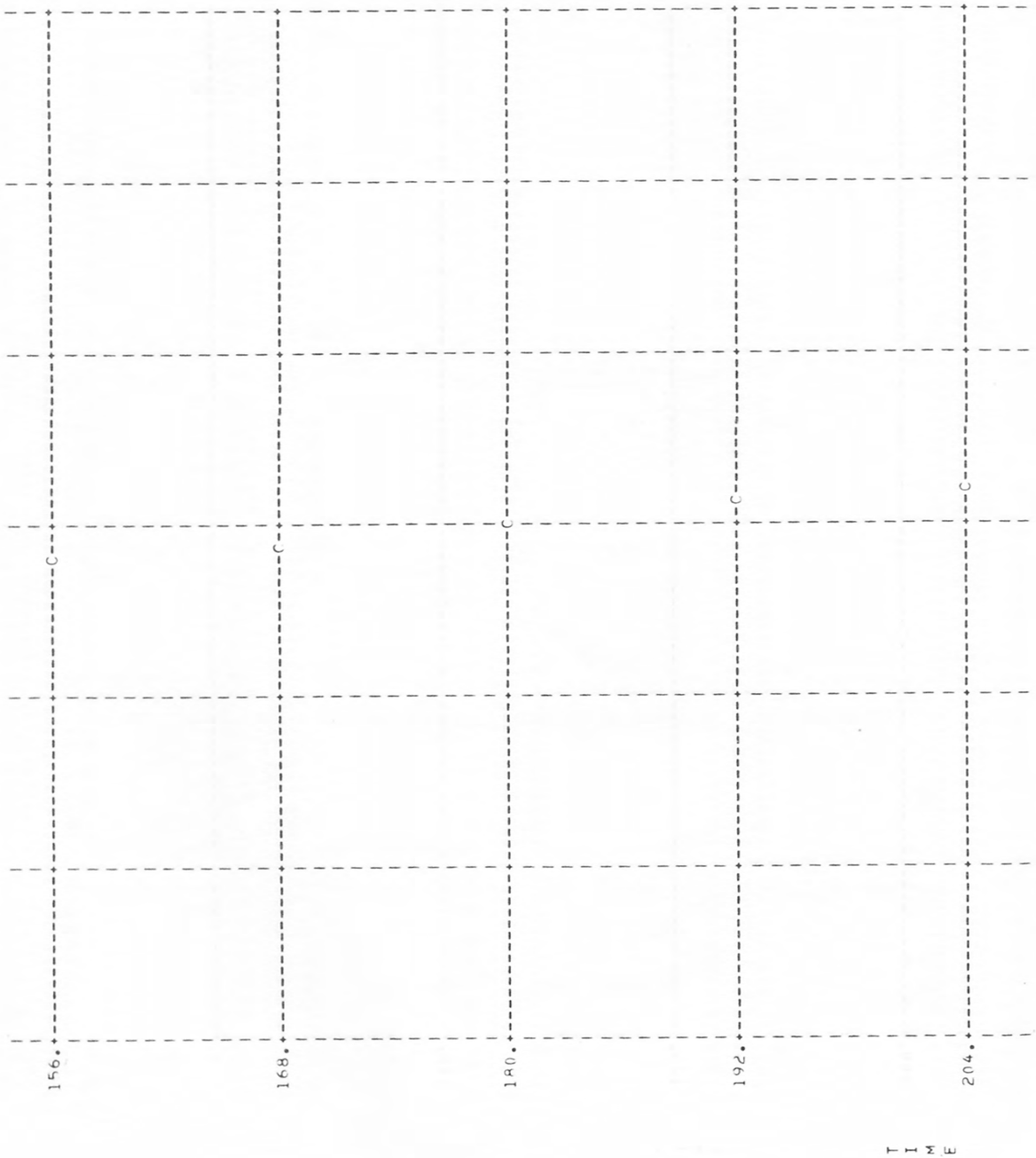
TIME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168
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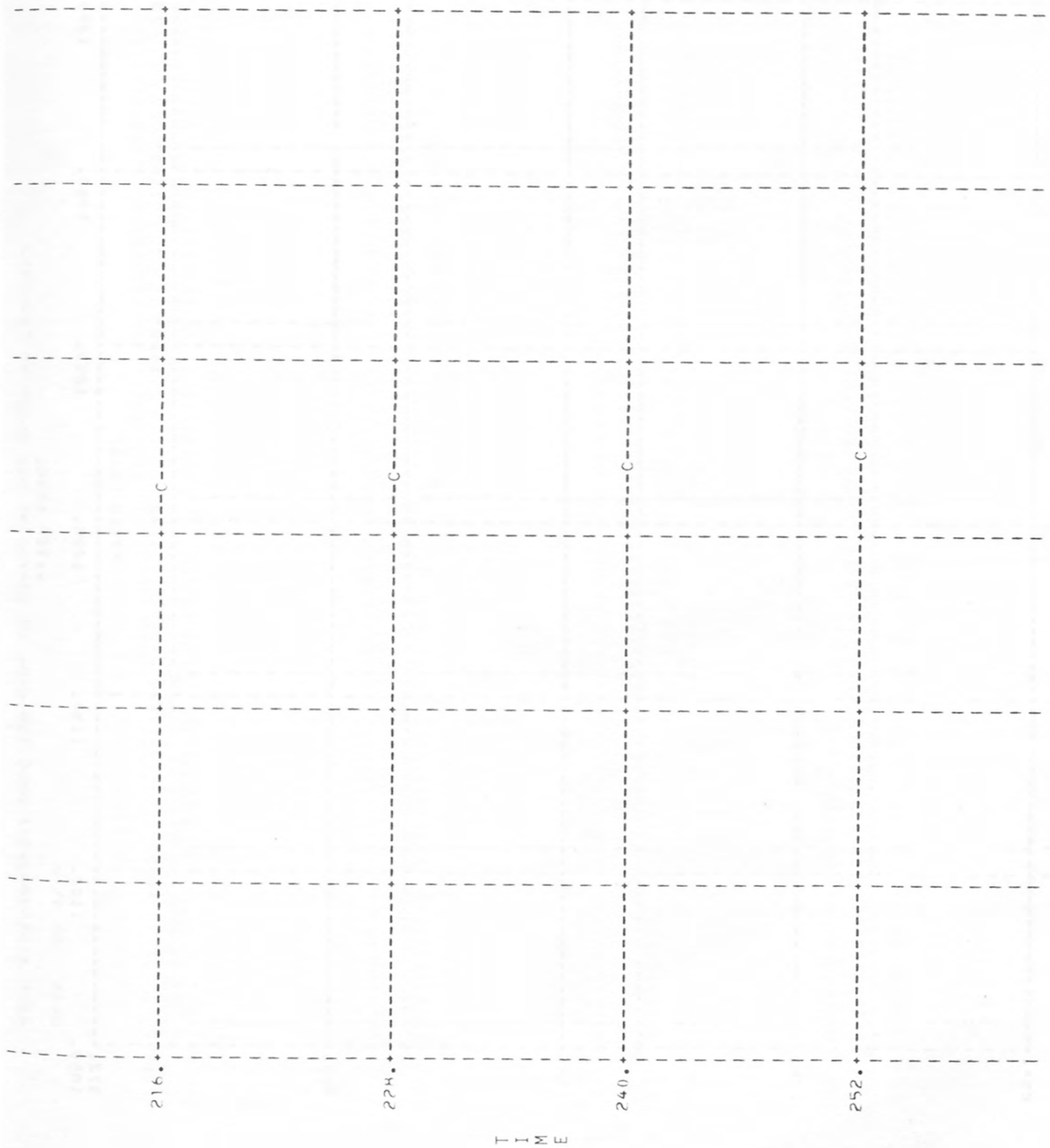
192
204
TIME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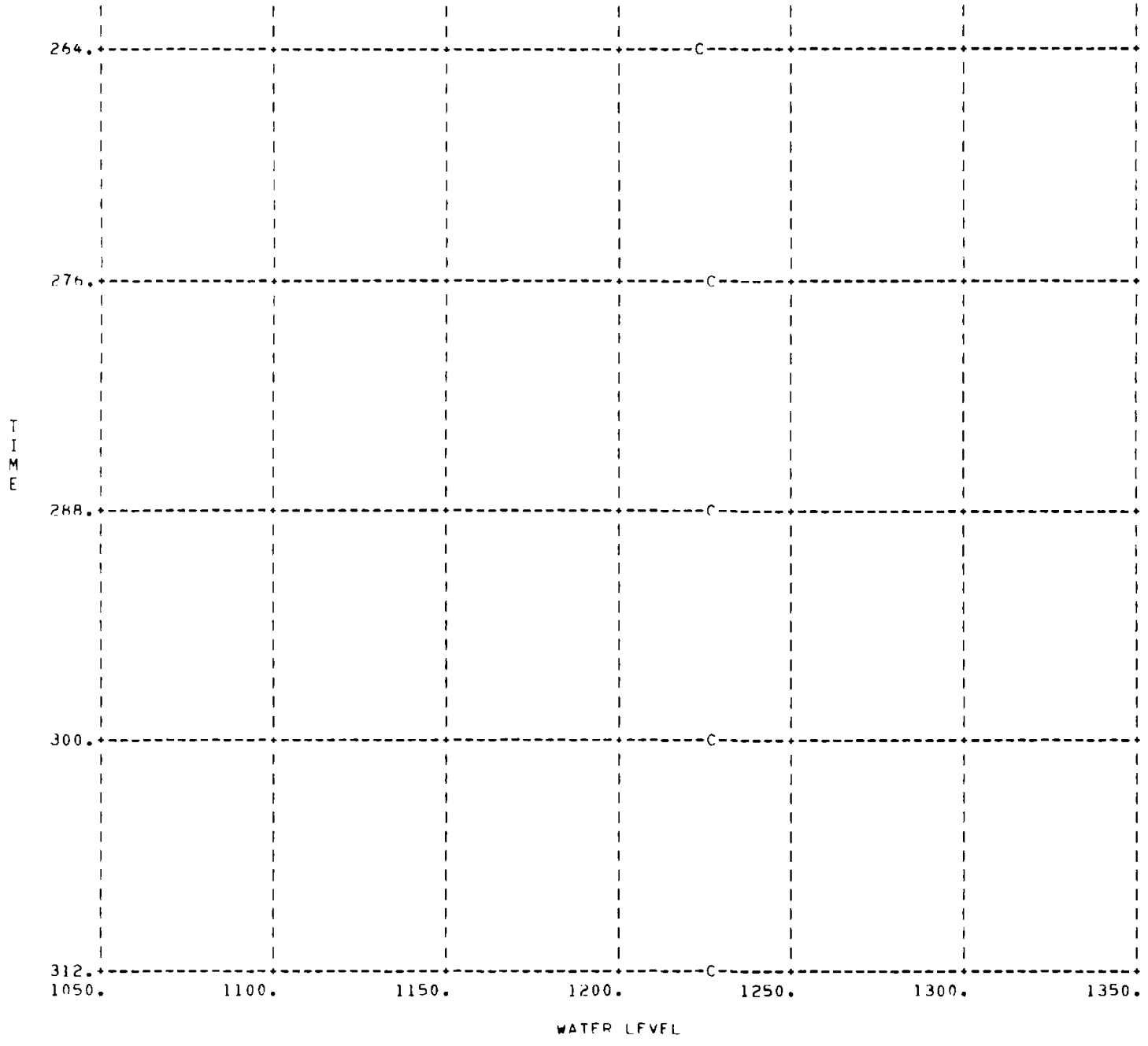
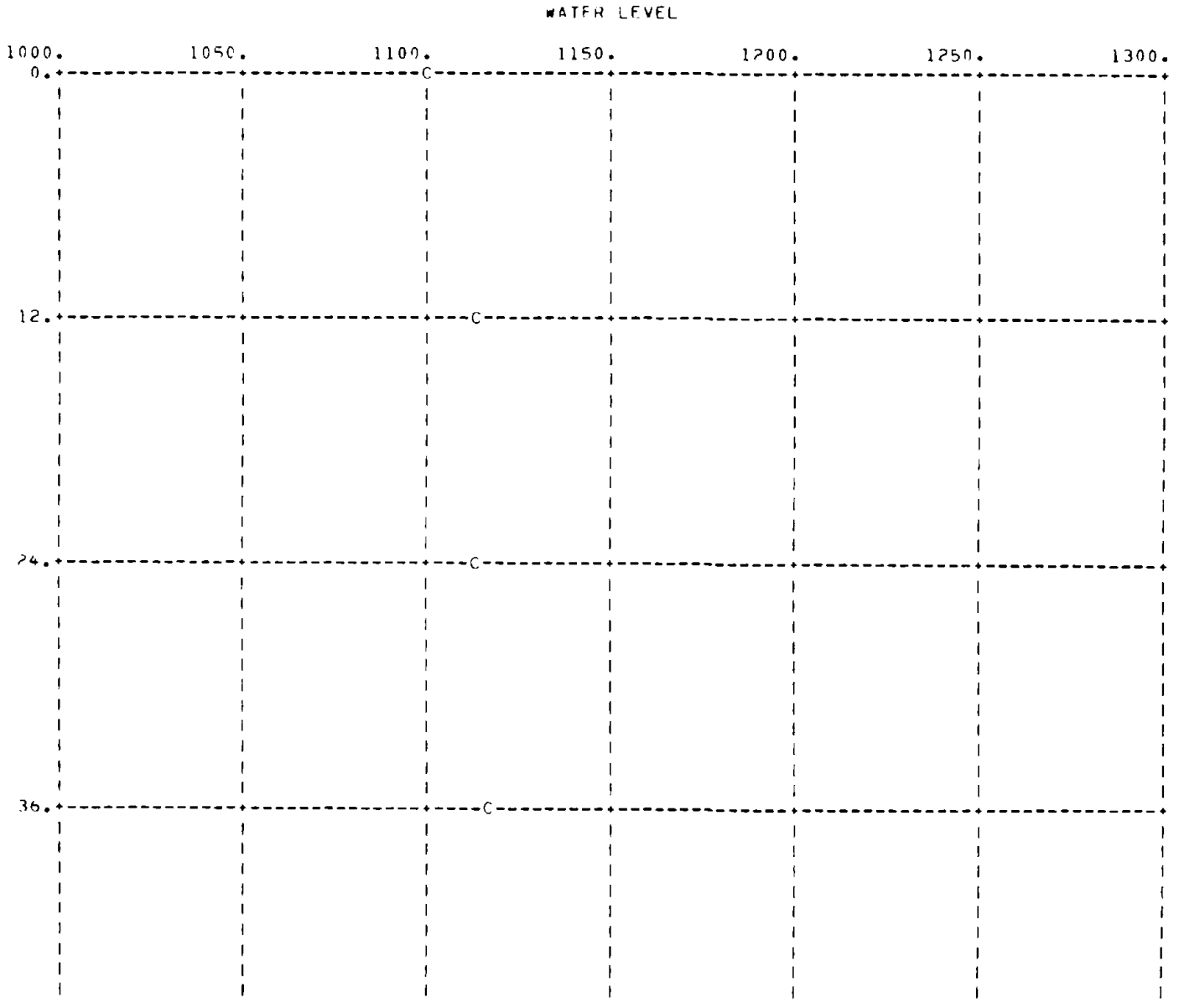
C
C
C
216
224
240
252
TIME


264.
276.
288.
300.
312.
C
TIME
1050.
1100.
1150.
1200.
1250.
1300.
1350.
WATER LEVEL

WELL 015/03W-32J01 NODE 135 PERF TO TD=420 80 PCT UPPER AQ LSD=1213

DATE 0/ 0/ 0



48
60
72
84
96
TIME

108
120
132
144
TIME

156.

168.

180.

192.

204.

TIME

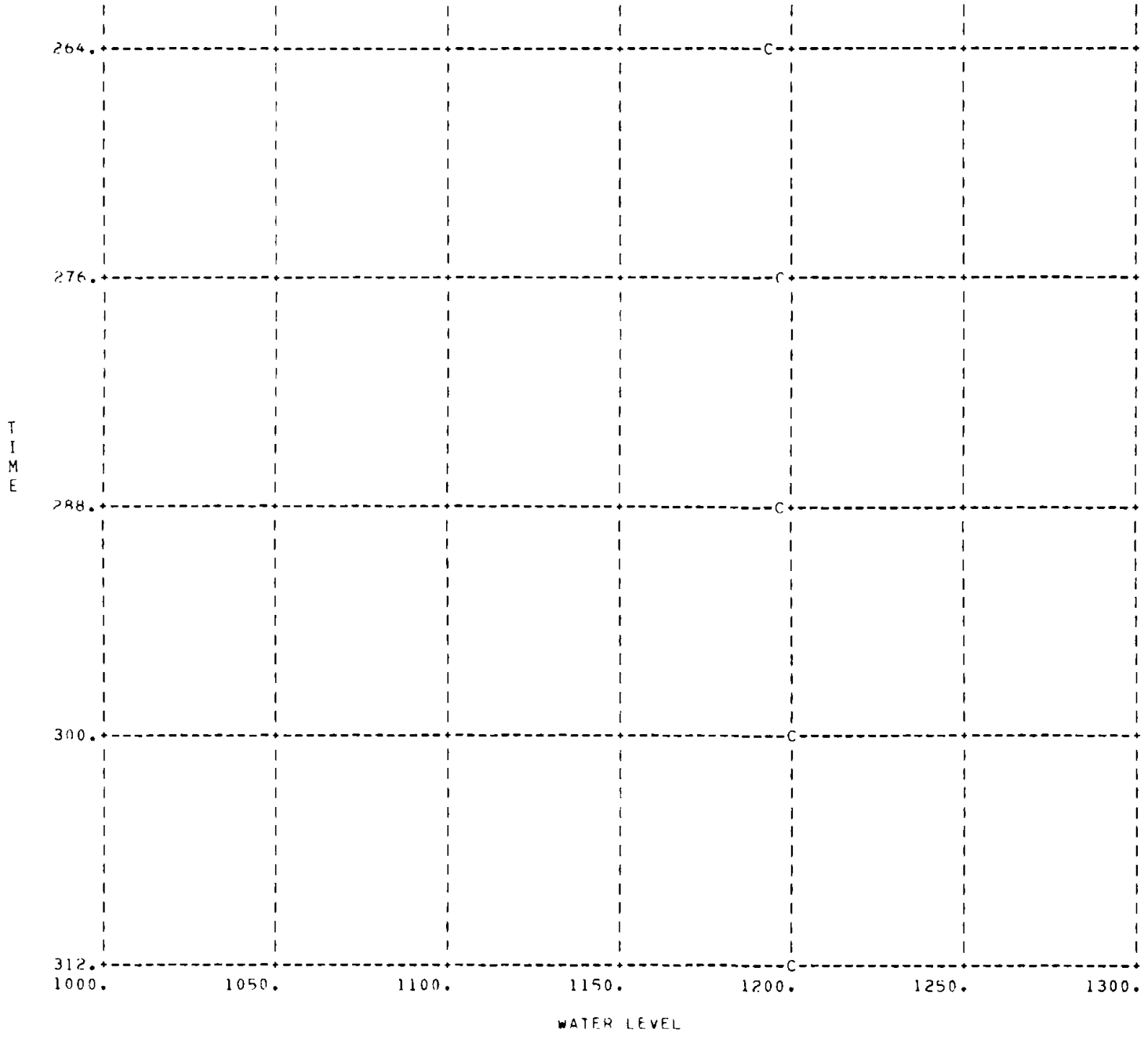
216.

228.

240.

252.

TIME


264.
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TIME
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1100.
1150.
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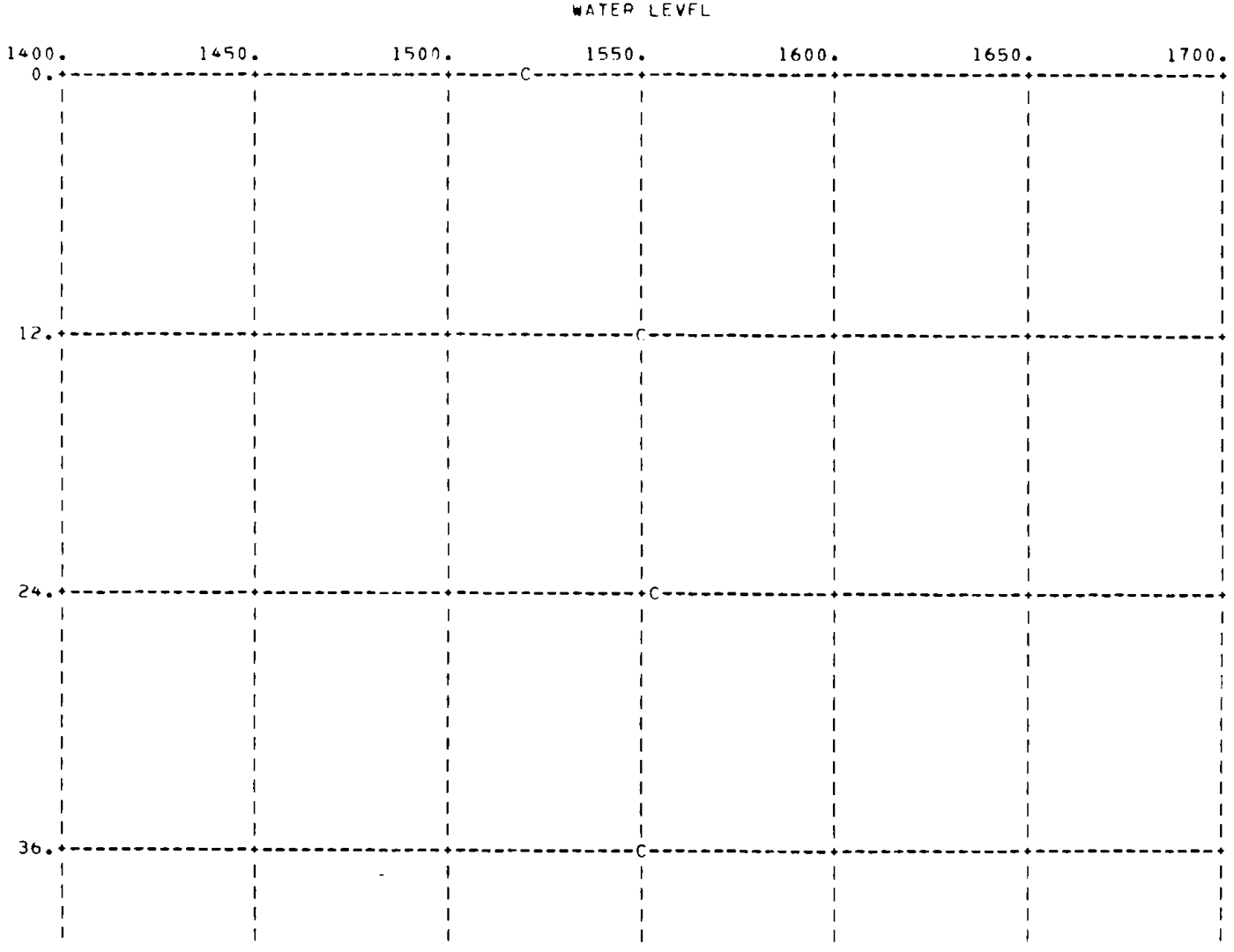
1300.
WATER LEVEL

WELL 01S/02W-30B03 NODE 166 PERF 124-228 75 PCT LOWER AQ LSD=1709

DATE 0/ 0/ 0



48

60

72

84

TIME

96

108

120

132

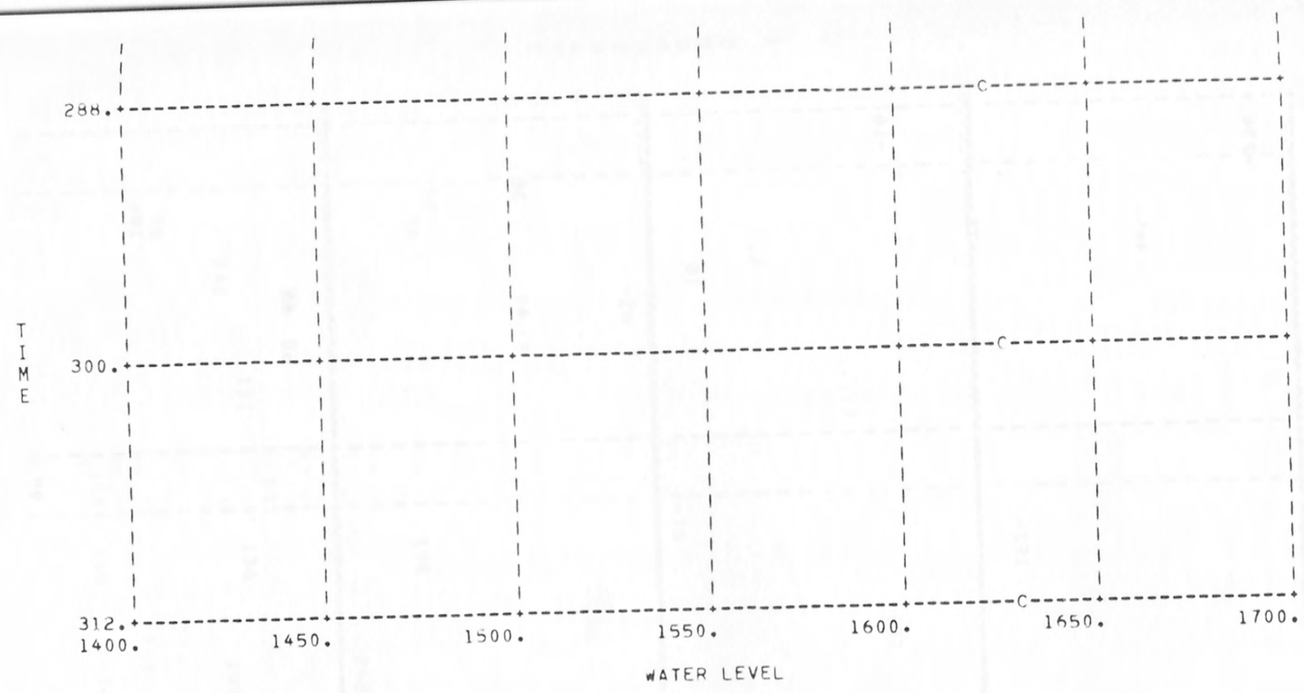
TIME


TIME
144.
156.
168.
180.
C


TIME
192.
204.
216.
228.
C


240.
252.
264.
276.
TIME
C
C
C
C

334


288.
300.
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TIME
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C
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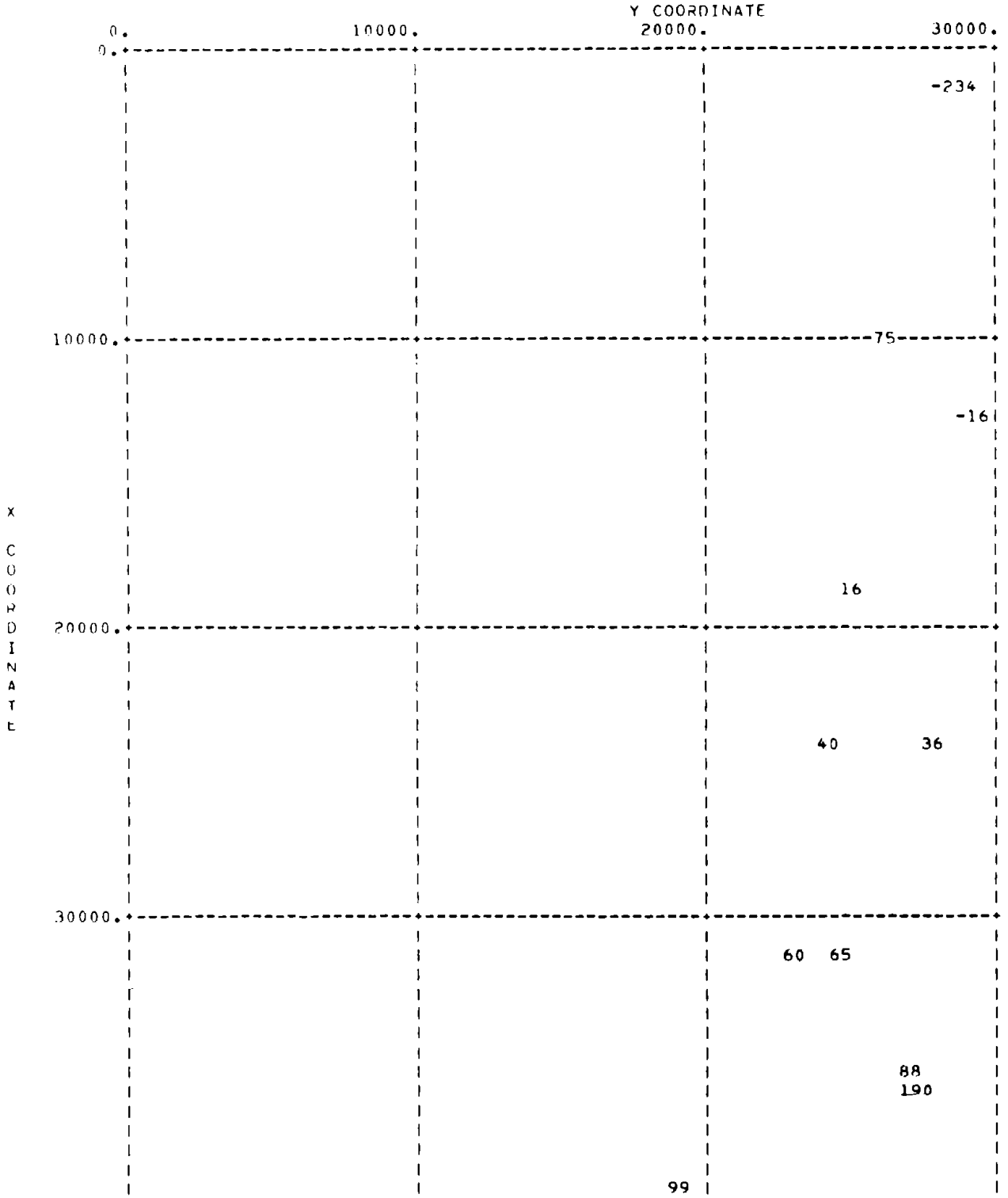
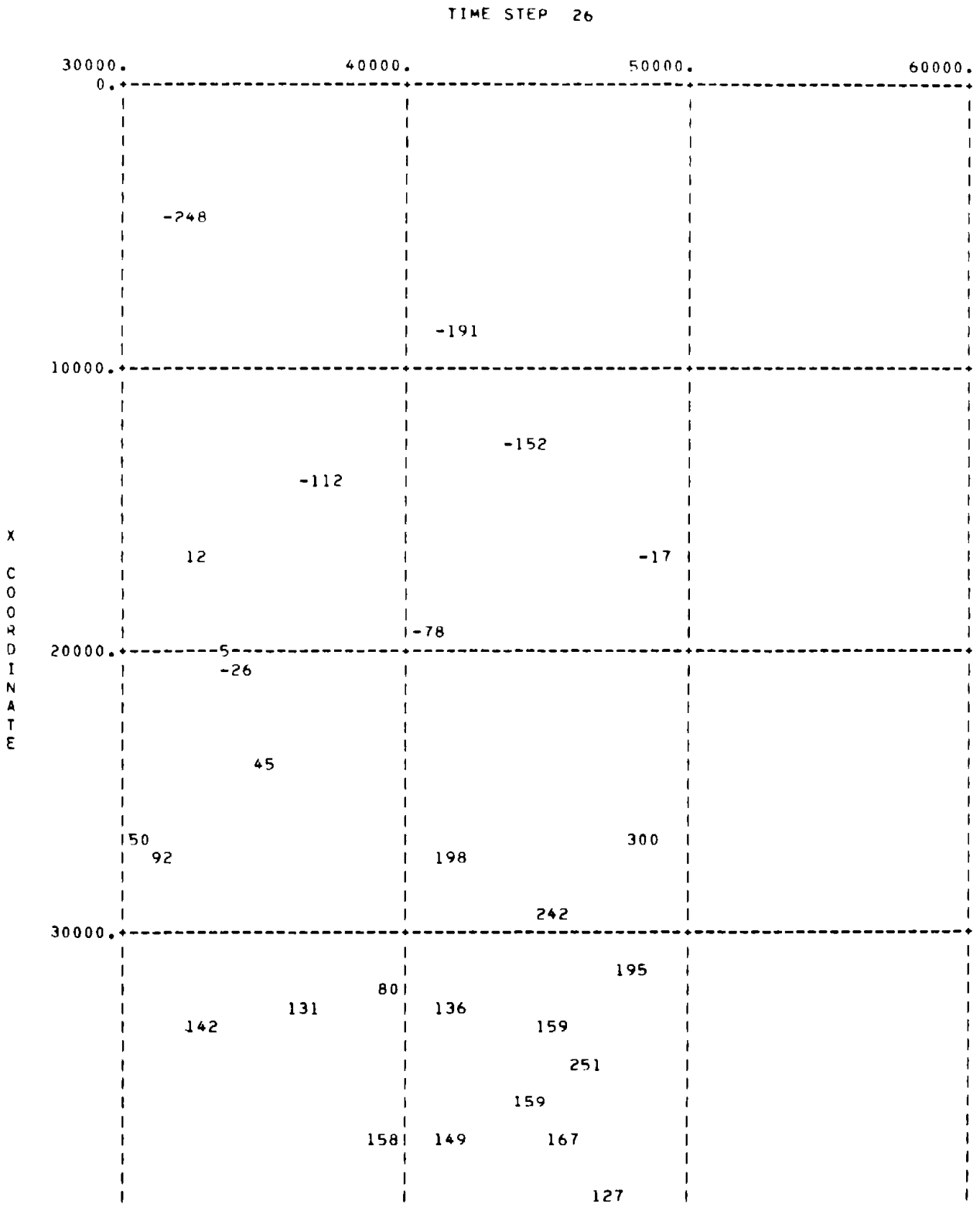
1450.
1500.
1550.
1600.
1650.
1700.
WATER LEVEL

335

SAN BERNARDINO YEAR 2000 DRAWDOWN (FEET + OR- 1975 WATER LEVELS)
UPPER AQUIFER

DATE 0/ 0/ 0

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30000.
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-248
-191
-152
-112
12
-17
-78
-5
-26
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92
198
300
242
195
80
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142
159
251
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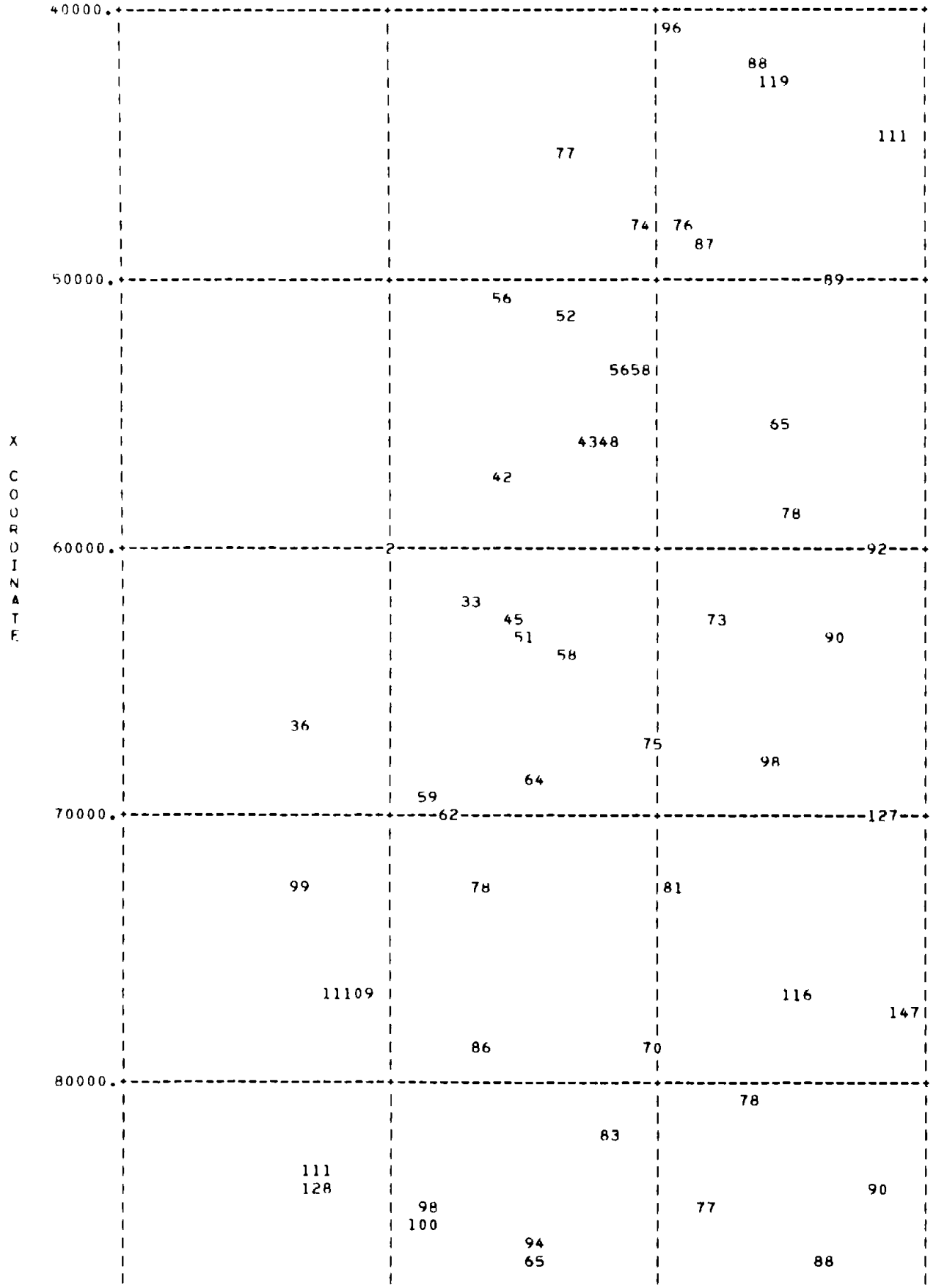
149
167
127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52
5658
65
4348
42
78
2
92
33
45
51
58
73
90
36
75
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64
59
62
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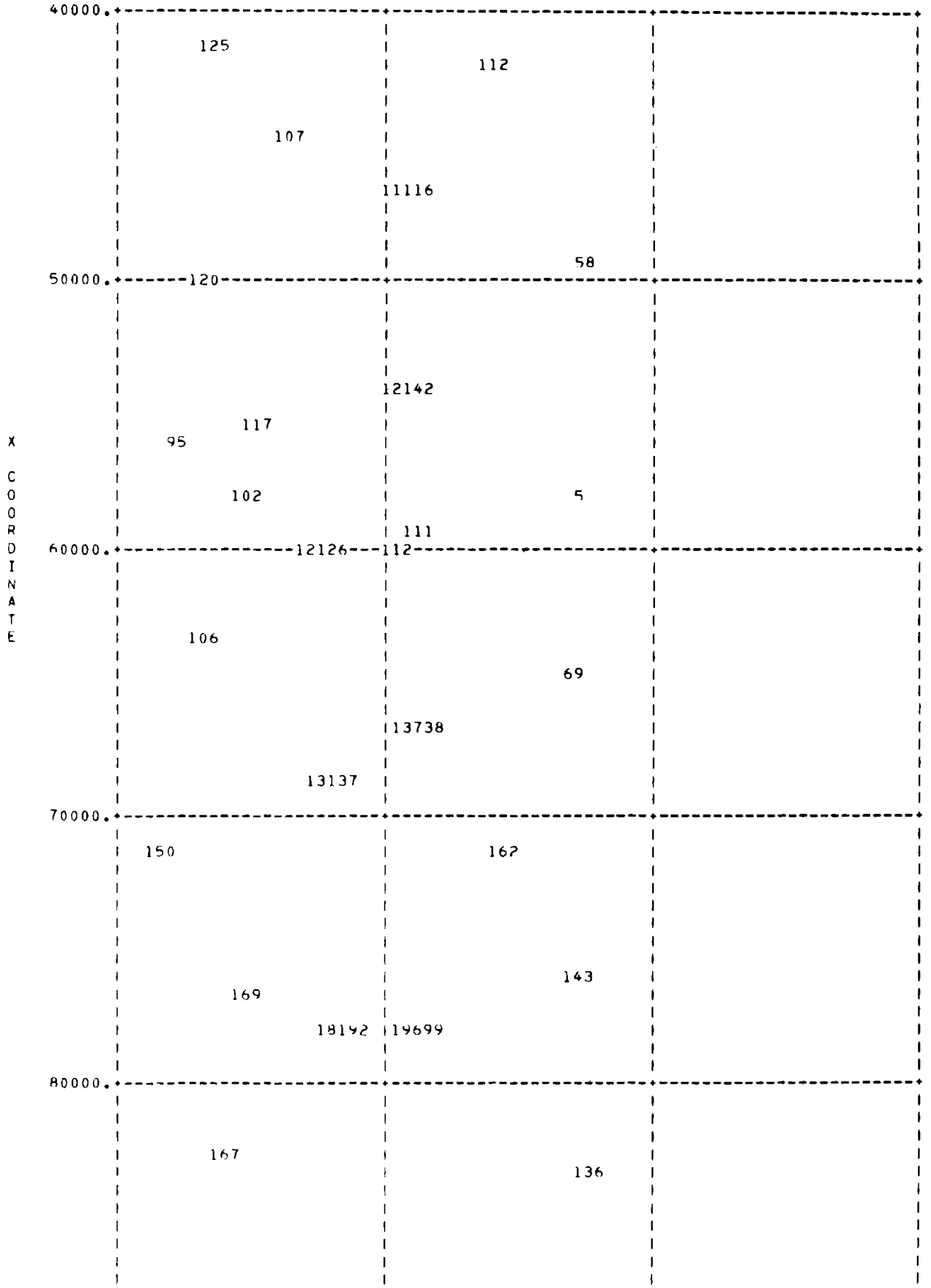
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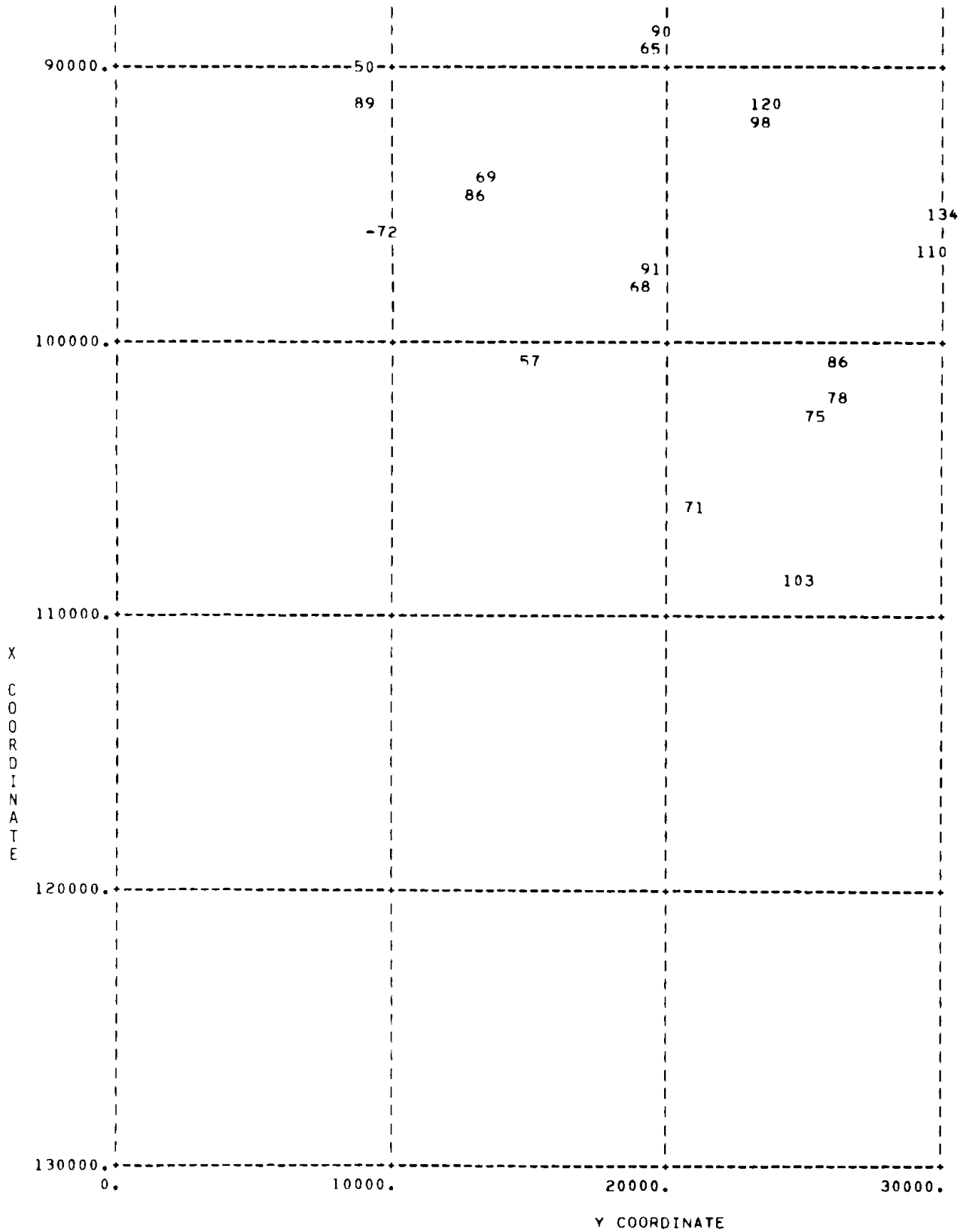
COORDINATE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134
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100000.
57
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71
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130000.
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10000.
20000.
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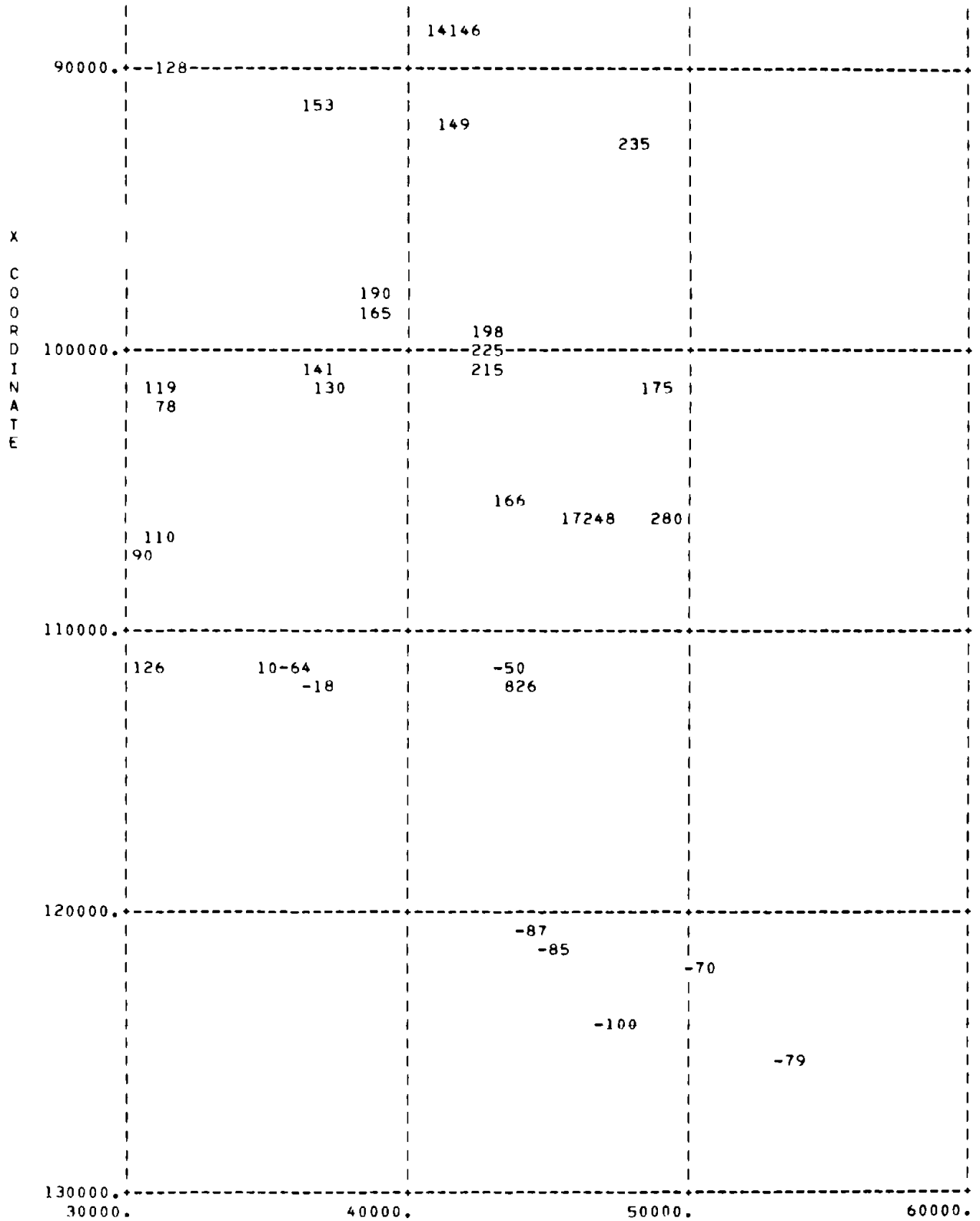
X COORDINATE
Y COORDINATE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COORDINATE
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78
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17248
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-18
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120000.
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-85
-70
-100
-79
130000.
30000.
40000.
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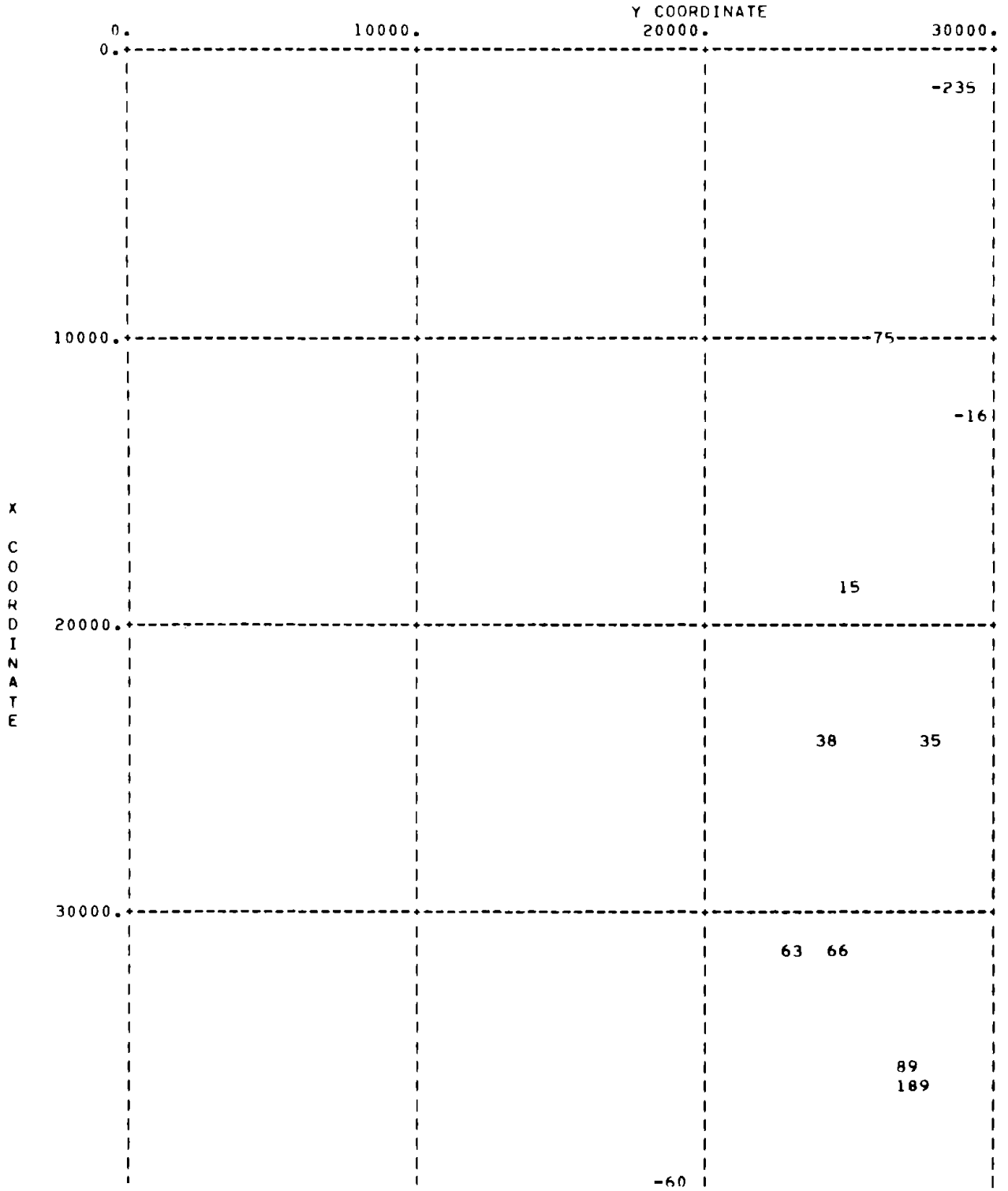
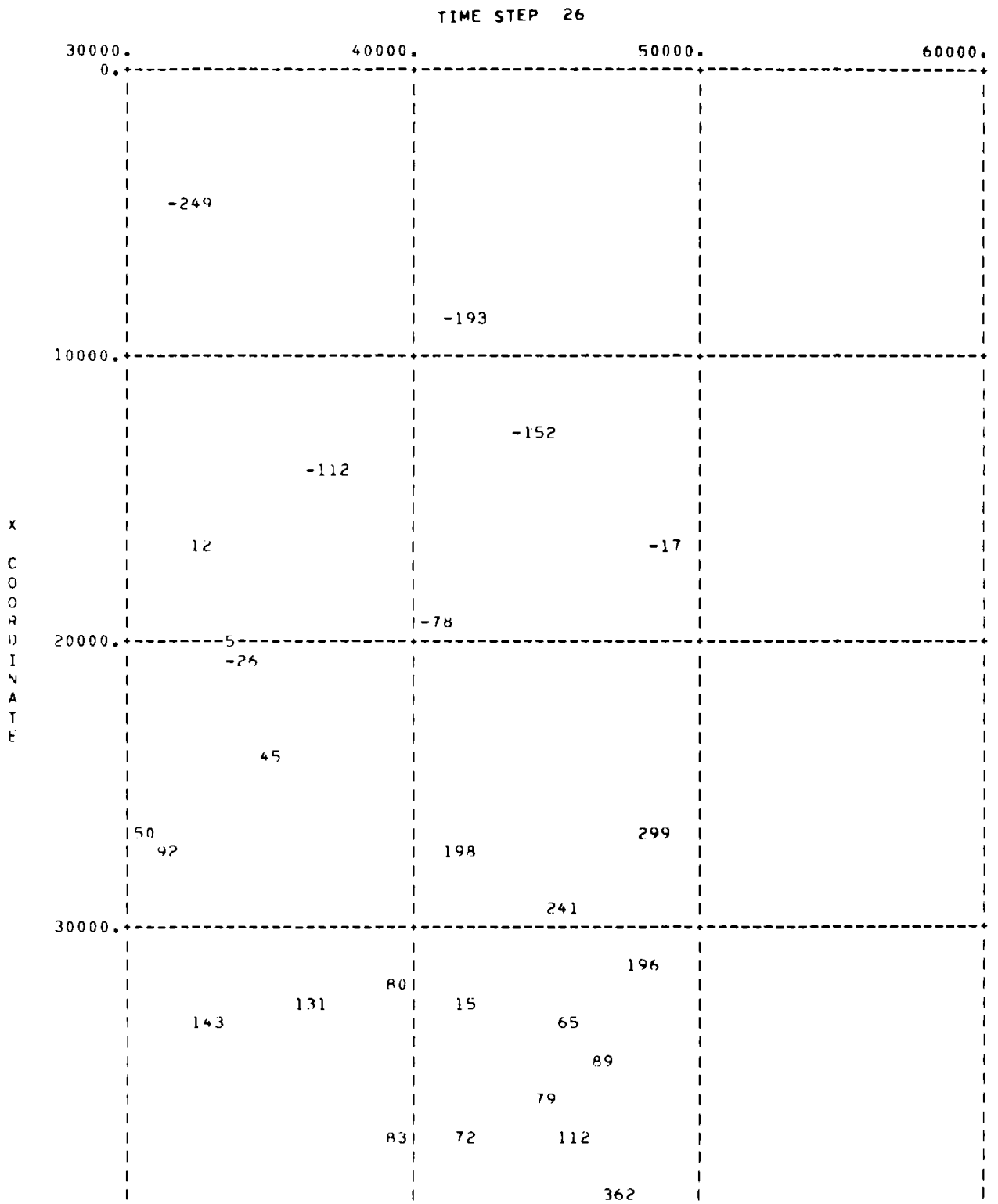
60000.

SAN BERNARDINO YEAR 2000 DRAWDOWN (FEET + OR- 1975 WATER LEVELS)
LOWER AQUIFER

DATE 0/ 0/ 0

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-193
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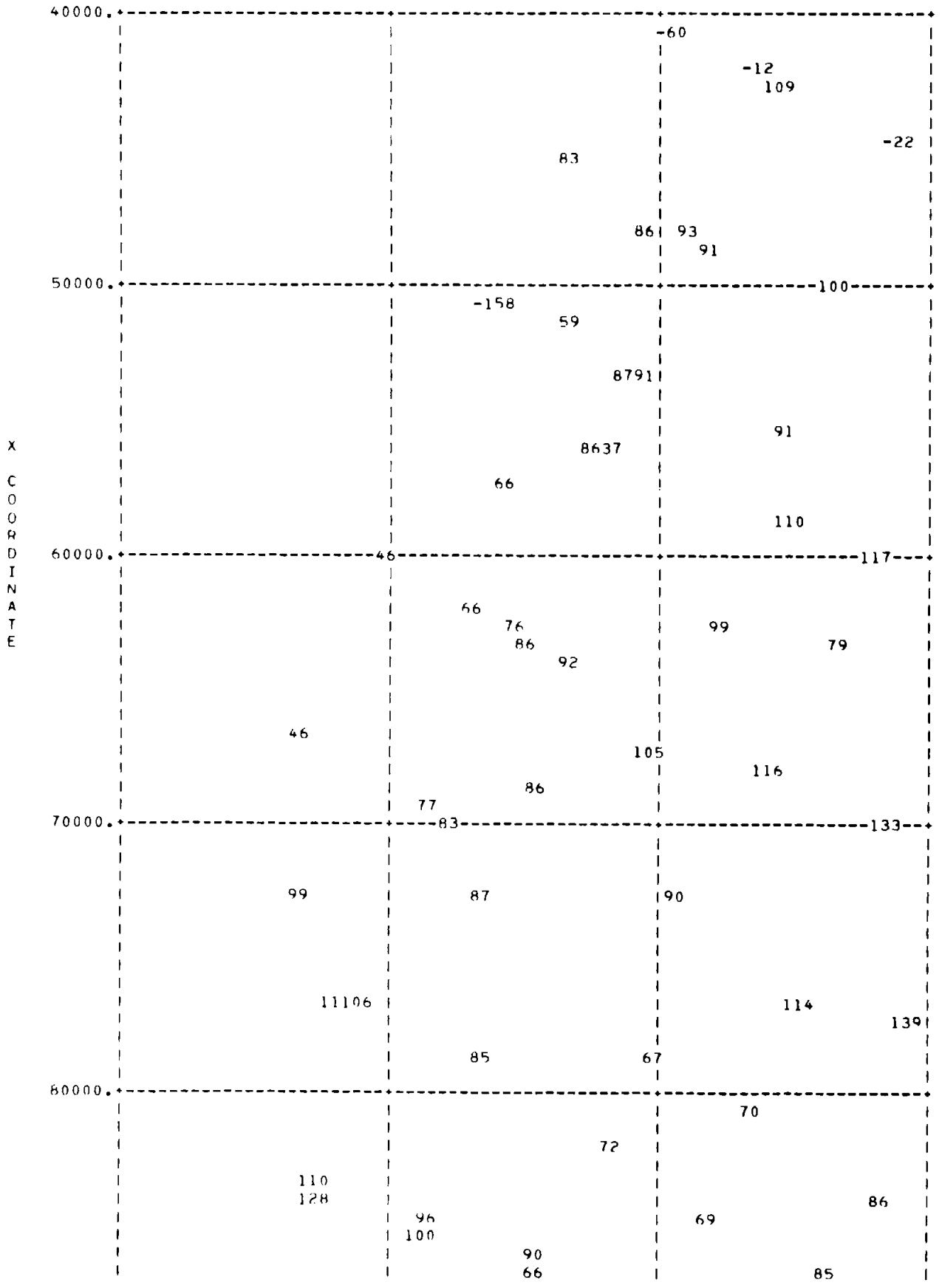
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8637
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117
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92
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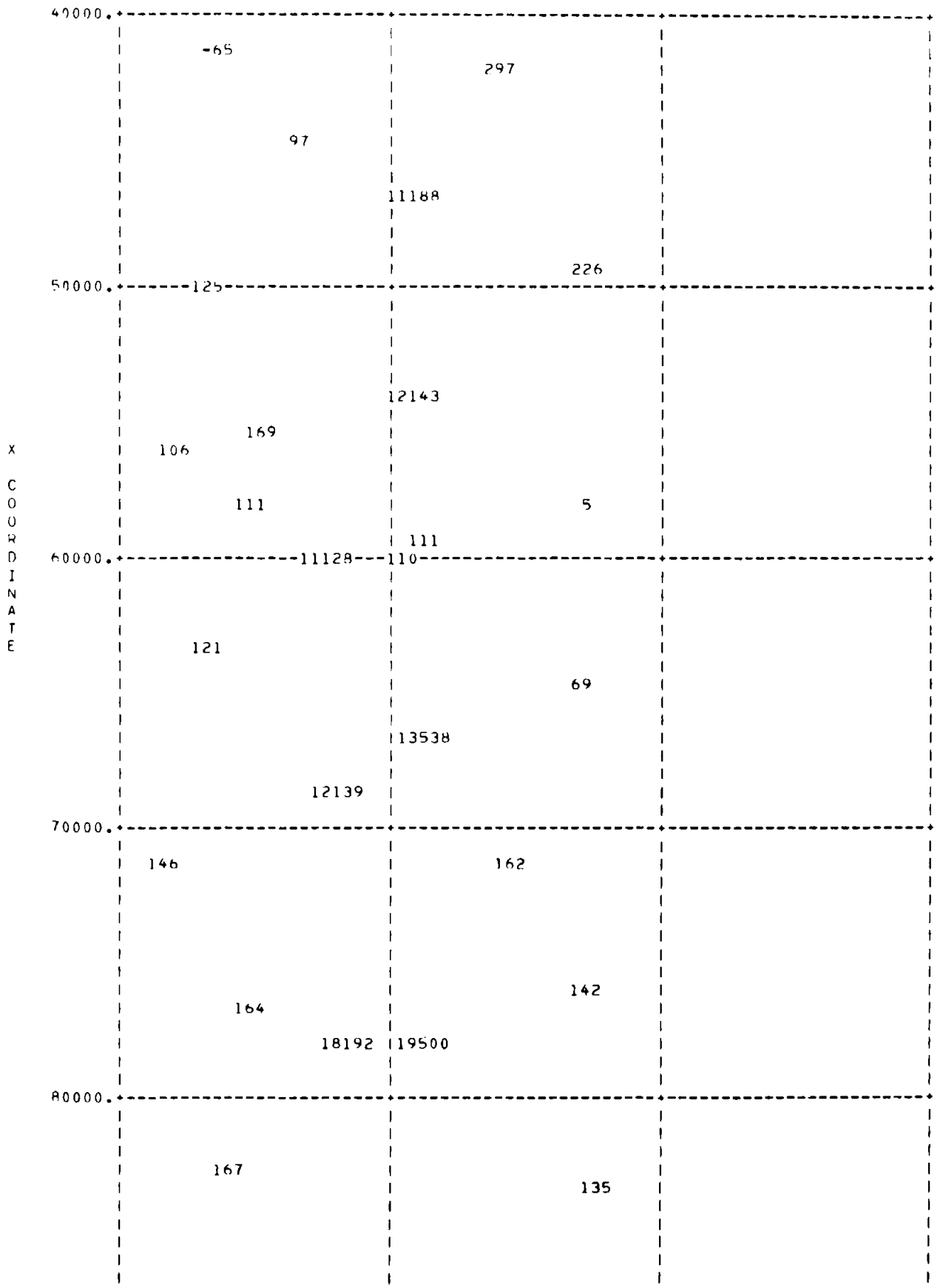
85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142
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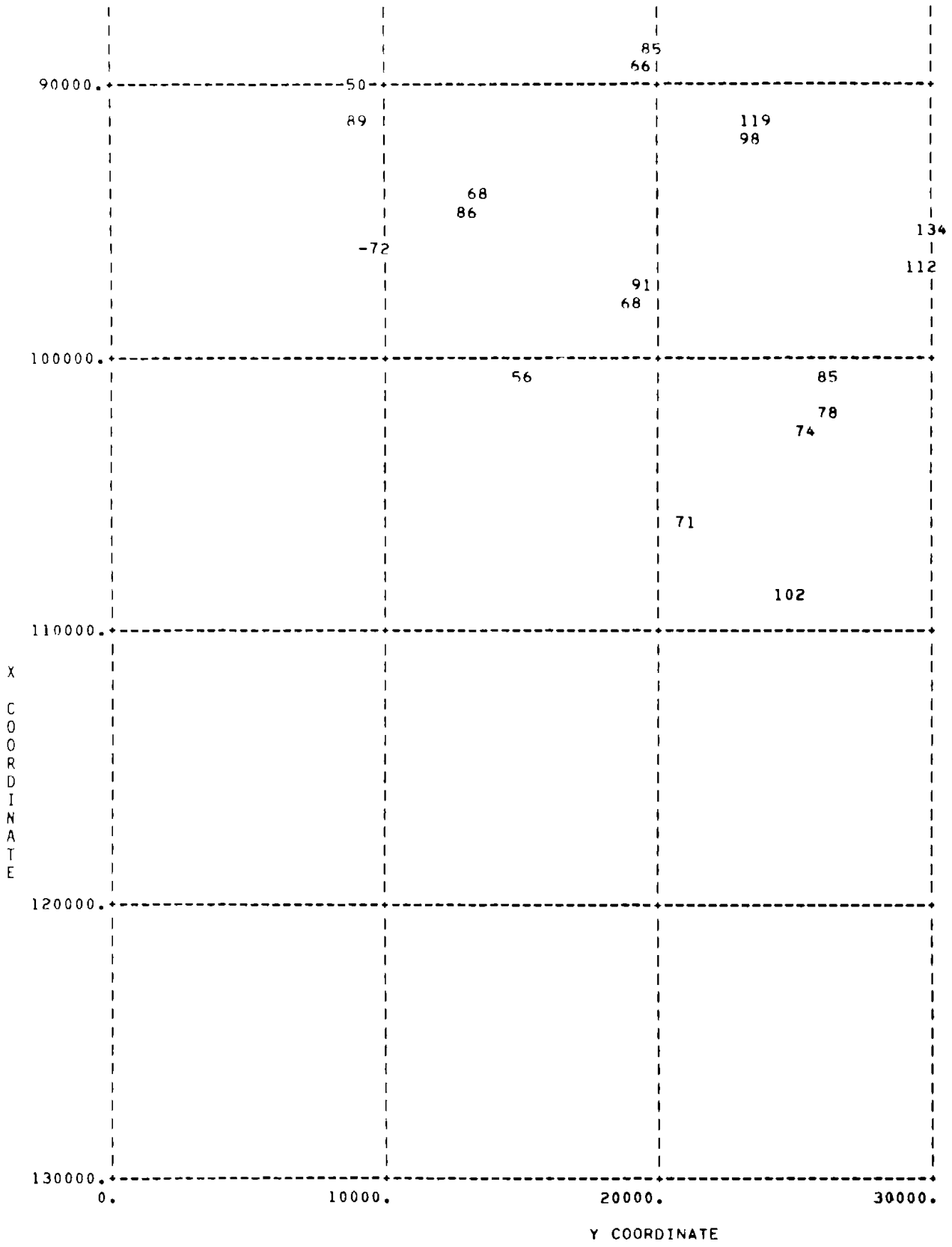
19500
80000.
167
135
X COORDINATE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10000.
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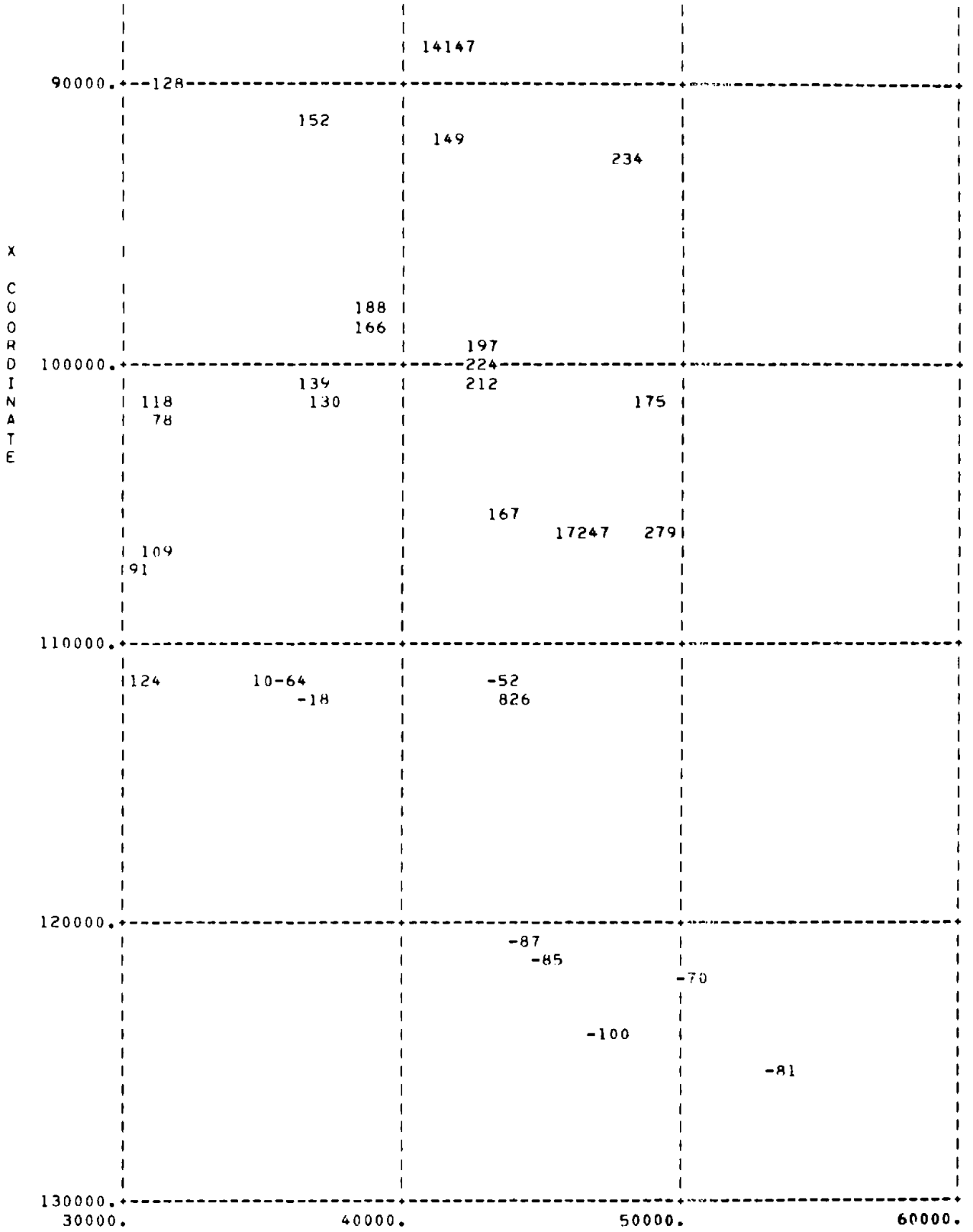
30000.
Y COORDINATE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197
100000.
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78
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109
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124
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GPO 689-143