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Effect of spatial and temporal variability of antecedent moisture content on model-generated runoff from an arid watershed

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EFFECT OF SPATIAL AND TEMPORAL VARIABILITY OF ANTECEDENT
MOISTURE CONTENT ON MODEL-GENERATED RUNOFF
FROM AN ARID WATERSHED

by

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Bachelor of Science
University of Nevada, Las Vegas
1997

A thesis submitted in partial fulfillment of
the requirements of the

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Howard R. Hughes College of Engineering**

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ABSTRACT

Effect of Spatial and Temporal Variability of Antecedent Moisture Content on Model-Generated Runoff from an Arid Watershed

by

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Streams in the arid southwest are typically ephemeral, and stream gages are not commonly available. Consequently, runoff data from storm events is not available, and flood control facility design or other water resource related decisions are based on synthetic hydrographs. In the Mojave Desert region of Southern Nevada, the duration of storm used to develop these synthetic hydrographs is the 6 hour storm. The 6 hour storm is used to simulate high intensity summer storms. Additionally, soils information used in the calculations for these synthetic hydrographs is taken from maps that are generally developed for a broad range of issues and do not consider spatial or temporal variability in the hydraulic properties. Both the antecedent moisture content (AMC) as well as the hydraulic conductivity can vary due to a number of physical conditions that change within a specific soil type, and this variation can have a significant impact on the watershed runoff response. The objective of the research is to determine if calculated runoff volumes are due to the spatial variation of soil hydraulic properties, and which of these is more important. The thesis also addresses the importance of storm frequency as it relates to rainfall/runoff process and the spatial variation of soil hydraulic properties. A

pedo-transfer function has been used for this study to develop the variation of the AMC parameter for the final hydraulic/hydrologic models. The effective hydraulic conductivity was evaluated at one half the calculated saturated hydraulic conductivity value. The AMC was varied for three different scenarios on 7 individual soil surfaces on a 228 km² arid watershed in the Mojave Desert using a multi-model platform. The modeling software packages used for the thesis are Rosetta, HYDRUS-1D, ArcGIS, FLO-2D and HEC-1. All data were geospatially rectified on the watershed to account for the spatial variation of the soil parameters. Temporal variation of the water content on each soil surface was evaluated using atmospheric demand and the soil properties over a 30-day period. The results show that the spatial variability of hydraulic conductivity has a considerable effect on the calculated flowrates in a two-dimensional model (FLO-2D). Calculated flowrates for the upper watershed are shown to increase as storm frequency decreases. However, the 2 dimensional model shows that all rainfall and run-on from upstream infiltrates on the lower portion of the watershed. The results also show that the AMC within a watershed has a considerable effect on calculated flowrates for both a two-dimensional and a one-dimensional model. As the time period of the drying time increases from 1-day to 5-days, the calculated runoff reduces by 42 percent to 250 percent in FLO-2D (at the upper watershed) and by 3600 percent and 4200 percent in HEC-1 for the 100-year models. There was a large difference in calculated peak flowrates between the one-dimensional and 2-dimensional models indicating a considerable difference between lumped parameter and discretized modeling methods.

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LIST OF ABBREVIATIONS

ANN	Artificial Neural Network
AMC	Antecedent Moisture Condition
API	Antecedent precipitation index
ARS	Agricultural Research Service
CCRFC	Clark County Regional Flood Control District
C	Centigrade
cm	Centimeter
cm ³	Cubic centimeter
CN	Curve Number
DARF	Depth Area Reduction Factor
DEM	Digital Elevation Model
FCDMC	Flood Control District of Maricopa County
FEMA	Federal Emergency Management Agency
FIRM	Federal Insurance Rate Map
HEC-1	Hydrologic Engineering Center Hydrologic Software
HEC-HMS	Hydrologic Engineering Center Hydrologic Modeling System
hr	Hour
G-A	Green – Ampt
GDS	Grid Development System
GIS	Geographic Information System
km ²	Square kilometer
m ³	Cubic meter
NFIP	National Flood Insurance Program
NOAA	National Oceanic and Atmospheric Administration
NRCS	National Resource Conservation Service
PSD	Particle size distribution
PTF	Pedotransfer function
R ²	Coefficient of determination
RFS	Rainfall simulator
SDN-5	Strom distribution number 5
SSC	Sand, silt, clay
USBR	United States Bureau of Reclamation
USGS	United States Geological Survey
VIF	Variable inflation factor

CHAPTER 1

INTRODUCTION

1.1 Motivation for Study

Streams in the arid southwest United States typically are ephemeral and associated watersheds are commonly ungaged; consequently, runoff data from storm events often are not available to decision makers in the science and engineering communities. For this reason, flood control facility designs typically based on flowrates and storm volumes derived from synthetic hydrographs. An effective means of calculating storm runoff from watersheds in this area is therefore important to the design of flood control facilities that reduce risk to life and property.

Storm frequency has a considerable role in the rainfall/runoff process. Storm frequency is defined as the recurrence interval of a given storm event. A 100-year storm would be one that statistically will happen once every one hundred years. The 100-year storm has a one-percent chance of happening in any year. The lower frequency storms produce more total rainfall resulting in more runoff. However, the relationship between the rainfall/runoff response and storm frequency is not necessarily linear and is difficult to quantify.

In addition to frequency, storm duration is also a consideration in the design storm used for the rainfall/runoff process. Storm duration is the length of the rainfall period from the beginning of the storm to the end of the storm. In Clark County Nevada a 6 hour duration storm is used for the calculation of storm runoff.

Runoff response also depends on soil moisture in the watershed. Soil moisture has a major influence on the hydrologic response of catchments (Brocca et al., 2008; Berthet et al., 2009) and is a necessary input to many hydrologic models (Hawley et al., 1983; Caporali et al., 1996). Some investigators have argued that soil moisture is the most important factor (Brocca et al., 2009), accounting for a significant difference in runoff on an otherwise identical watershed with the same storm conditions (Heggen, 2001). Soil moisture content is also known as the antecedent moisture condition (AMC), when used as an initial condition, to describes the volume of water that is present in soil pores at the beginning of the event. Because AMC is an important state variable (Hawley et al., 1983) and a critical initial condition in hydrologic models, variation of AMC will have a significant effect on the modeled rainfall-runoff response of soil. Therefore, hydrologic models used by civil engineers and earth scientists are of little value without accurate estimates of AMC.

Soil moisture content can vary significantly from one soil type to another, both spatially and temporally, across a watershed or even within a single soil surface. Soil moisture content, as well as other hydrologic variables, can exhibit large spatial variability (Merz and Plate, 1997) because of factors such as slope or vegetation density (Bi et al., 2008). Soil moisture also varies with time, especially after precipitation events given the important processes of soil evaporation, plant transpiration and downward drainage. Although a higher AMC is expected to result in greater storm runoff, Miller and French (2001) showed that infiltration can increase for saturated soil conditions.

Spatial and temporal variation of soil moisture content has been studied at numerous scales. The effects of global climate change on the soil water content at the regional scale have been studied by Holsten (2009), Huszar (1999), and Zhu (2009). Antecedent moisture condition has also been studied at the plot and field scales (Wei et al., 2007; Marshall et al., 2009). Additionally, numerous watersheds have been evaluated with respect to AMC (Contador et al, 2006; Starks et al., 2006; Koren et al., 2008; Noto et al., 2008; Reshmidevi et al., 2008). The AMC of a soil is affected by other soil parameters, and these must also be defined. This is accomplished with a pedo-transfer function (PTF). The PTF is an approach to estimate soil hydraulic properties from relatively simple-to-obtain field measurements, like soil texture and bulk density (Arya and Paris, 1981; Arya et al., 1999). The concept has been used for a variety of field scenarios dealing with infiltration and water movement (Rawls et al., 1989; Schaap et al., 2001; Parasuraman et al., 2006), and for parameterizing numerical models using different approaches (van Genuchten, 1980; Mualem, 1976). The PTF provides a well established method to determine the spatial and the temporal variation of the soil parameters.

1.2 Objective

The objective of this thesis is to evaluate the effects of spatial and temporal variability of AMC on model-generated runoff through use of a PTF on a specific watershed. A PTF is developed from field measurements of soil hydrologic and hydraulic parameters and data from the Desert Research Institute project on the same watershed (Shafer et al.,

2009). The parameters developed with the PTF are used in a two-dimensional model (FLO-2D) and a one-dimensional model (HEC-1). Although the Hydrologic Engineering Center's (HEC) software package HEC-1 (USACE, 1998) and FLO-2D (O'Brien, 2007) models use different modeling approaches, they both use the same variables developed from the PTF relationships. Therefore, the PTF results should provide a solid correlation with the runoff loss parameters used in both models.

The Green and Ampt (G-A) (1911) method is a proven method for describing soil parameters within a hydraulic/hydrologic model. A great deal of research into the use of the Green and Ampt (G-A) (1911) method has been done (Bouwer, 1969; Chen and Young, 2006). However, the fundamental principles, and the soil hydraulic parameter variables originally presented, remain the same. The G-A method considers a rainfall event under two separate conditions. The first considers rainfall intensity that is less than the saturated hydraulic conductivity (K_s) value of the soil (i.e. $w < K_s$), where w is the rainfall intensity. In this case, all of the precipitation infiltrates into the ground. The second condition considers precipitation intensity that is greater than or equal to the K_s of the soil (i.e. $w \geq K_s$). In this case, the infiltration rate into the soil is described by the G-A equation (Mein and Larson, 1973; Dingman, 2002):

$$f(t) = K_s \left[1 + \frac{\psi_s(\Delta\theta)}{F(t)} \right] \quad \text{Eq. 1.1}$$

where $f(t)$ is the infiltration rate; $F(t)$ is the total infiltration for that time step; K_s is the saturated hydraulic conductivity, described by the G-A method as the soil permeability to water; $\Delta\theta$ is the soil water deficit, described as the difference between the initial soil moisture content and the porosity; and, ψ_s is the wetting front soil suction parameter.

1.3 Hypotheses

Two hypotheses are considered:

1. The effect of spatially-varied soil hydraulic properties on model-generated runoff volumes depends on the storm return period and the interval of storm succession.
2. The effect of AMC, or soil moisture content, has a larger effect on model-generated runoff volumes than hydraulic conductivity depending on the storm return period and the interval of storm succession.

1.4 Applications

The results of this study will provide a better understanding of how spatial and temporal variability of AMC affects model-generated runoff between different design storm return periods and different intervals of storm succession on an arid watershed. For the engineering community, some of the benefits of this thesis include preliminary investigation into addressing the following questions:

- Can the additional engineering costs for more detailed modeling provide better estimates of runoff volumes, and thus more appropriately sized flood control structures?
- When is the additional effort of distributed modeling warranted for a meso-scale watershed?

For the scientific community, some of the benefits might be capturing preliminary information to answer the following questions:

- Can PTF methods provide better estimates of parameters necessary for input into rainfall-runoff models than those referenced from maps?
- Will the variation of AMC values on different soil surfaces within a watershed improve conceptual model of hydrologic responses arid watersheds?
- Will the variation of AMC values on different soil surfaces within a watershed allow for more accurate estimates of transport rates of sediment or pollutants via overland flow?

The G-A method is used by soil physics, agricultural and civil engineering communities; the findings of this study should be useful for all these communities.

The Literature Review (Chapter 2) is provided to show how the issues related to hydrologic modeling have been addressed by others. The Methods section (Chapter 3) illustrates what has been done in this thesis to develop the hydraulic/hydrologic models.

The Results and Discussion section (Chapter 4) provides the results of each of the steps

of the multi-modeling platform that was presented in Chapter 3. Finally, Chapter 5 presents the conclusions of this thesis.

CHAPTER 2

THEORETICAL BACKGROUND

An approach to the development of input values by using a multi-modeling platform has been developed for this thesis. The final hydrologic/hydraulic models consider the spatial variation of the soil parameters in two distinctly different ways: one is a physically based two-dimensional model, and the other is a lumped parameter one-dimensional model. However, the development of the soil parameters prior to input for both models is the same.

The intent of this chapter is to discuss the role of initial conditions, specifically the AMC, on runoff estimates from a hydrologic model. Through the use of PTFs, the role of soil in the rainfall/runoff process is further explained.

The multi-model platform is the method by which the referenced soil data is converted to soil parameters usable by the final hydrologic and hydraulic models. Descriptions of the models and parameterizations used in this thesis, e.g., Rosetta, HYDRUS-1D, and the closed form equations by Mualem (1976) and van Genuchten (1980) are given to show the basic capabilities of the software. Then, descriptions of FLO-2D and HEC-1 are presented to give a basic understanding of the final model capabilities.

This chapter is sub-divided into sections that explain the watershed and the body of knowledge concerning the development of the models. The order is as follows:

1. Different Model Types
2. Role of Initial Conditions
3. Pedo-Transfer Function
4. Role of Soil in Runoff
5. Multi-Model Platform

2.1 Different Model Types

Hydrology is defined as the geoscience that characterizes the occurrence and distribution of water on the earth and in the atmosphere (Dingman, 2002). Characterization of any watershed is determined by the climate of a region and the geologic structure of the area (Linsley, 1949). From a modeling standpoint, the geologic characteristics are described by the soil (G-A parameters) and the landuse within the watershed. The climatic characteristics are defined in the model by the precipitation frequency and storm duration. Both the soil and the rainfall properties can vary spatially and temporally across the watershed. This variation can be significant and complex whether it is from a global or watershed standpoint. The prediction, or modeling, of the hydrologic system requires some simplification. As stated by Woolhiser (1996), "...all models are simplifications or abstractions of reality and all models are to some extent wrong. In fact, if they aren't simpler ... than the real world objects, they aren't useful."

Representation of spatial variation of soil hydraulic parameters is, in general, addressed using two different approaches: lumped parameter and distributed models. Lumped parameter and distributed models are relative terms reflecting the degree of spatial subdivision used in the particular model (Hawley et al., 1983). The lumped parameter model delineates the watershed (or sub-basin) by its topographic boundaries. The mean values of the variables for soil parameters, vegetation, topography, etc. are then used to characterize the sub-basin. The HEC-1 model (USACE, 1998) is one of the better known lumped parameter modeling packages available to the engineering community. Distributed models, on the other hand, are more complex in construction. Topographic features of the watershed are defined by discretizing the domain into individual cells. Each cell is assigned attributes (topography, soil properties, vegetation, etc.) that affect the hydrologic performance of the domain (e.g., watershed). Distributed models account for spatial variability of these attributes; however the attributes are homogeneous within each cell of the model. Once the domain is discretized, the governing equations can be solved using either a finite difference or finite element approach. FLO-2D is a distributed model that is fairly common in the Southwest U.S. used for hydraulic/hydrologic modeling.

Both the FLO-2D and the HEC-1 models previously discussed are capable of modeling watersheds using the National Resource Conservation Service's (NRCS) (formerly known as the Soil Conservation Corp [SCS]) Curve Number (CN) method. The

CN method is a commonly used empirical method for determining infiltration losses on a watershed. Infiltration losses are calculated using a single value that describes the soil. The method is considered a black box approach as the soil value is not a physical description of the soil.

A physically-based model uses equations that are derived from basic physics. Parameters used in the G-A equation are based on physical characteristics of soil. These parameters describe the soil water content as well as characterize wetting front movement through the soil. Although the G-A equations and parameters are mechanistic in nature, they are empirically derived. The G-A method is a physically based method that continues to gain acceptance and be expanded upon (Schmid, 1990; Ogden and Saghafian, 1997). Both the FLO-2D and the HEC-1 models use the G-A method, and are considered physically based for this thesis. The physical basis of both these models is important as it allows for the input of soil parameters developed from the PTF.

Temporal representation of watershed processes can be achieved either on a single event basis or as a series of events that are included in a longer time series. For this study, a single storm is used for each hydrologic/hydraulic simulation. Temporal variation of AMC is the focus of this thesis.

2.2 Role of Initial Conditions

Initial conditions have a considerable effect on the overall accuracy of hydrologic models. One difficulty in hydrologic simulation arises from non-linearities inherent in rainfall loss functions, as a result of AMC, and the spatial complexities of the catchment topography, including soils, vegetation, and rainfall inputs (Beven, 1989). Hydrologic effects of all these spatial complexities can be described by the variable AMC, which is the initial condition that is the focus of this study. The major factors in determining AMC (Hawley et al., 1983) are as follows:

- soil type,
- antecedent meteorological conditions,
- topographic factors, and
- land cover.

Soil type can have a tremendous effect on the ability of the soil to retain water. For example, at the same water content, the matric potential of clay is greater (more negative) than that of sandy soil, and therefore the clay has a higher ability to retain water. This sorptive quality, in effect, reduces the evaporation rate when compared to the same water content in a sandy soil. On the other hand, water flows more freely through a sandy soil, allowing it to both drain more freely and evaporate.

Antecedent meteorological conditions are often used to determine AMC for hydrologic models. However, these conditions aren't necessarily the same from one

environment to the next. Therefore, the characterization of temporal variability of soil moisture is a fundamental issue in hydrologic modeling. Because of variability of soil properties and meteorological conditions, AMC can also be difficult to quantify or predict accurately.

There are several methods available for determining AMC. Two of the common methods are discussed in the following paragraphs. Both methods have been provided to illustrate how AMC can be derived; however, neither method is used in this thesis.

One of the more popular methods for establishing AMC is the NRCS CN method. The CN method incorporates three different levels of AMC (i.e., wet, normal, and dry conditions), and is based on the precipitation that has occurred within the previous five days. The CN method was developed empirically from numerous Agricultural Research Service (ARS) research watersheds in the United States. The AMC levels correspond to the following conditions:

AMC I: Soils are dry but not to the wilting point; satisfactory cultivation has taken place.

AMC II: Average conditions.

AMC III: Heavy rainfall, or light rainfall and low temperatures have occurred within the last five days; saturated soil.

The three AMC levels are all described with regard to agricultural seasons (Singh, 1992) although typically AMC II is applied for annual floods (Viessman and Lewis,

2003). Precipitation values used for determining AMC levels are shown below in Table 2.1 (Singh, 1992):

Table 2.1 Antecedent Moisture Conditions

Antecedent Moisture Condition	Total Rain in Previous 5 Days	Total Rain in Previous 5 Days
	Dormant season	Growing season
I	Less than 1.27 cm	Less than 3.5 cm
II	1.27 to 3.25 cm	3.5 to 5.25 in.
III	More than 3.25 cm	Over 5.25 cm

AMC II is the common assumption used for flood control modeling. A study conducted in the Midwest United States (Bhuyan et al., 2003) showed that the AMC II value in agricultural land led to consistent overestimation of runoff depths, and that a considerable discrepancy can exist between field conditions and the CN value obtained with an AMC II value. Additionally, incorporating the AMC values into the NRCS method at each of the three levels creates unreasonable jumps in the variation of CN.

The method developed by Kohler and Linsley (1951) is also a commonly used empirical method for determining antecedent precipitation that was developed for the eastern and central regions of the United States. This method is known as the antecedent precipitation index (API) and generally takes the form of:

$$API = b_1P_1 + b_2P_2 + b_3P_3 + \dots + b_iP_i \quad \text{Eq. 2.1}$$

where API is the index, P_i is the amount of precipitation that occurred i days prior to the storm being considered and b_i is a constant that is a function of time, proportional to some value of $1/i$. This index gives a value for a predetermined amount of time. If a day-to-day value is required, then it should be assumed that b_i decreases logarithmically with time, rather than as a reciprocal. In this case, the equation takes the form:

$$I_i = I_0k^t \quad \text{Eq. 2.2}$$

where I_0 is the initial index value, k is a recession factor that is a function of the physical characteristics of the catchment, and t is the time in days. The k value typically ranges from 0.85 to 0.90, with the value decreasing logarithmically with time over a dry period.

In humid areas, where stream flow is continuous, groundwater discharge at the beginning of the precipitation event is a good index to represent the initial moisture conditions (Kohler and Linsley, 1951). According to Kohler and Linsley (1951), the value of the index on any day theoretically depends on the precipitation recorded over an infinite antecedent period. If a reasonable value of API is assumed, the computed index value will approach the true value in a few weeks in this environment.

A normalized version of the API has been studied and proposed by Heggen (2001), and a method developed by Caporali et al. (1996) is very similar. Additionally, numerous

other indices have been proposed (e.g., Xia et al., 1997; Descroix et al., 2002, Pan and Peters-Lidard 2003). These APIs are typically exponential functions.

All the previous indices are “Black Box” approaches. That is, the parameter used in the calculations is not physically based (i.e., CN, k , etc.). Additionally, much of the research has been conducted in wet environments and for agricultural conditions. Castillo et al. (2003) point out that hydrologic response of a watershed is determined by a number of interacting factors, and that these factors in humid environments differ from those in arid and semi-arid environments.

Soil conditions do vary considerably between an arid and a humid environment. The top layer of the soil in a humid environment is likely to be composed of humus and highly permeable. The top layer of soil in an arid environment can be composed of a very hard desert pavement surface and is not as permeable. Additionally, vegetation is likely to be more pronounced in a humid environment. Vegetation has the effect of increasing the hydraulic conductivity of a soil.

The factor most influencing AMC according to Hawley et al. (1983) is the watershed topography. Topographic factors such as slope, aspect, and the location on a hill slope have an influence on the AMC of a watershed. Land cover (i.e., vegetation) can also be used as a criterion for defining homogeneous units of AMC for hydrologic modeling. The presence of vegetation tends to diminish the variation of soil moisture content (Bhuyan et al., 2003).

2.3 Pedotransfer Function

Because hydrology combines numerous other sciences, the emerging interdisciplinary research field of hydrogeology attracts substantial attention as it bridges pedology and hydrology (Pachepsky et al., 2006). Pedo-transfer functions (Bourma, 1989) have tremendous potential for qualifying and quantifying soil properties for use in hydrologic models. Simply defined, the PTF method translates existing, easily obtainable surrogate data into hydraulic property data that would be more difficult (and expensive) to obtain through other means. Although some PTFs have some mechanistic qualities, they all have a strong degree of empiricism, in that they contain model parameters that were calibrated on existing soil hydraulic data bases (Schaap et al., 2001). Some PTFs perform better than others; however, there seems to be no clearly superior and generally applicable PTF (Schaap et al., 1998). All PTFs can be characterized by three general classifications Class, Continuous, and Artificial Neural Network (ANNs) (Schaap, 2000).

Class PTFs are based on the soil textural classification, and on the assumption that similar soils have similar hydraulic properties. This type of PTF is typically used when the textural classification is known, and is used to provide average hydraulic parameters (Schaap et al., 1998). Hydraulic properties developed from Class PTFs are typically referenced from a database or a table, and are useful when the scale of the study exceeds the field sampling capabilities. They remain popular because textural characteristics are the most easily measured soil property (Twarakavi et al., 2010).

Additionally, a study by Al Majou et al. (2007) found that Class PTFs were reasonably accurate in predicting the water retention properties and thus, they are worthwhile tools.

The Continuous PTF builds upon the Class PTF by predicting continuously changing hydraulic properties using simple linear and non-linear equations (Schaap et al., 1998). It also builds upon similarities between particle size distribution (PSD), pore size distribution, and the water retention curve (Arya and Paris, 1981; Schaap et al., 2001; Wosten et al., 2001). The ability of the soil to retain water is related to the pore size distribution, which is somewhat proportional to the grain size distribution (Dingman, 2002). Examples of typical water retention curves for sand, silt and clay, showing the substantially different effect of water content on the different soil types, are shown in Figure 2.1. The graphs were developed for this example using the Mualem (1976) and van Genuchten (1980) closed form equations. The graphs were developed from a spreadsheet that was originally used in Michael H. Young's Spring 2009 Vadose Zone Hydrology class at the University of Nevada Las Vegas. Note the substantially different shapes of the curves and how the relationship of the soil matric potential (ψ) changes with varying water content (θ).

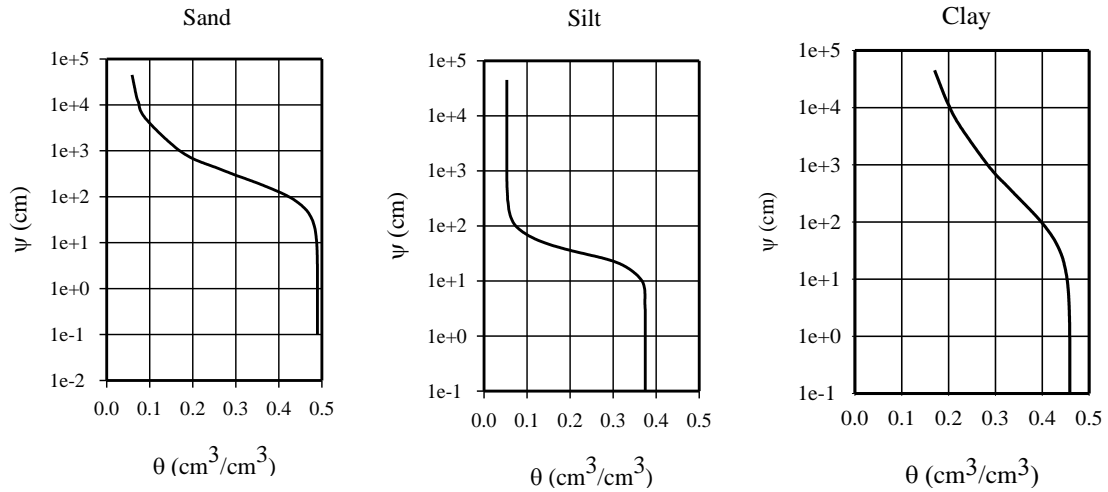


Figure 2.1 Water Retention Curves

Artificial Neural Networks are computational models that simulate structures and functions of biological neural networks, and form the basic concept behind ANN PTFs. Pachepsky et al. (1996) and Tamari et al. (1996) found that the ANNs performed well or better than regression (Continuous PTFs), for predicting points on the water retention curve and the parameters that describe the curve. Not only are ANNs efficient at finding appropriate soil hydraulic properties, they can calculate uncertainties in the parameters. Another attraction of ANNs is that they are designed for pattern recognition, allowing the system to learn. Perhaps the most common ANN method for estimating soil hydraulic properties is implemented in Rosetta (Schaap, 2000). The database used by Rosetta was derived from 2085 samples (Schaap, 2000) taken from temperate and subtropical climates in both America and Europe (Parasuraman et al., 2006). The software has five separate

PTF options that develop hydraulic parameters using input for textural class; percent of sand, silt, and clay (SSC); percent of SSC and bulk density (ρ_b); $SSC\rho_b$ and water content at a soil water potential of 33kPa; and $SSC\rho_b$ and water content at a soil water potential of 1500 kPa. Considerable documentation and evaluation of the Rosetta software is available. In many cases, Rosetta is compared to other PTFs (Sobieraj et al., 2001; Givi et al., 2004; Minasny et al. 2004; Parasuraman et al., 2006; Stumpp et al., 2007; Rubio et al., 2008; Patil and Rajpu, 2009). These evaluations have been conducted using soils from around the world with varying results; however, widespread use indicates that the general approach of the software is gaining acceptance in the scientific community.

2.4 Role of Soil in Runoff

A significant percentage of most rainfall infiltrates to become stored soil water, which is either returned to the atmosphere by plant transpiration and evaporation or is conducted to the lower levels and ground water (Saxton and Rawls, 2006). Typically, surface runoff in arid and semi-arid environments occurs due to infiltration excess or Hortonian flow, which occurs when rainfall intensity exceeds the ability of soil to transmit flow downward into the soil (Dingman 2002). Two forces influence the ability of soil to transmit the flow of water from the soil surface into the unsaturated or vadose zone: absorption and gravity.

Initially and during early time infiltration, water entry is dominated by gradients in matric potential (i.e., absorption), often designated by ψ . Matric potential gradients are independent of gravity. The affect gravity has on the rainfall-runoff process diminishes as the water content in the soil increases and the gradient in matric potential decreases. When soil becomes saturated, ψ approaches zero at the soil surface. Even in cases where the soil matric potential is at or close to zero, it still influences water retention during dry periods. Although absorption dominates at the start of the infiltration process, the main driver for water movement in late-time infiltration is gravity. During this time, saturated hydraulic conductivity (K_s) is the parameter that moderates the flow rate.

The saturated hydraulic conductivity (K_s) parameter of a soil sample can be easily measured; however, determining the effective conductivity (K_{eff}) of a soil sample is somewhat more elusive. It is widely acknowledged that the effective hydraulic conductivity (K_{eff}) is less than the K_s value. Bouwer (1966) first explored this concept by relating the pressure head to the actual conductivity of a soil sample. Based on results from Corey et al (1965), Watson (1965), and Topp and Miller (1966) the K_{eff} is equal to approximately $0.4K_s$ to $0.6K_s$. For finer grained soil a K_{eff} was about $0.5K_s$. Although the use of K_{eff} has not been confirmed by theoretical or applied studies, K_{eff} equaling $0.5K_s$ has been used by other researchers (Rawls et al., 1983; McCuen et al., 1981; Chen et al., 2010). A K_{eff} that equals $0.5K_s$ is used for the hydraulic conductivity value in this thesis.

2.5 Multi-Model Platform Software

The multi-model platform uses readily available modeling tools (i.e. Rosetta, HYDRUS-1D, HEC-1, and FLO-2D). The multi-model platform first develops a PTF from the referenced data (Shafer et al. 2009), and then uses the calculated parameters to vary the AMC. The AMC is varied using the HYDRUS-1D software. A value for the wetting front soil suction is then calculated using the closed form equations by Mualem (1976) and van Genuchten (1980).

2.5.1 Rosetta

Rosetta is an ANN PTF (Schaap et al., 2001). The software is Windows® based. It is public domain and can be downloaded through the United States Department of Agriculture – Agricultural Research Service website (http://www.ussl.ars.usda.gov/pls/caliche/ftpinfo?model_in=rosetta accessed on July 24, 2009).

Rosetta has 5 hierarchical PTFs that are described below:

- Textural
- Percent of Sand, Silt, and Clay (SSC)
- Percent of Sand, Silt, Clay, and bulk density ($SSC\rho_b$)
- Percent of Sand, Silt, Clay, and bulk density at 33 kPa
- Percent of Sand, Silt, Clay, and bulk density at 1500 kPa

Each PTF allows for the estimation of the van Genuchten (1980) parameters of residual water content (θ_r), saturated water content (θ_s), alpha curve shape parameter (α), n curve shape parameter (n), and the tortuosity parameter (l). These values will be used in this thesis for the estimation of the water content at specific drying times.

The PTFs provided in Rosetta do not account for gravel, nor can the gravel volume be inputted directly. Thus, some modifications to the data were required so that volumetric percentage of gravel could be used in subsequent analyses. This was done by adjusting the bulk density, using equations by Andraski (1991). The first step is to calculate v_g , the volumetric rock fragment content.

$$v_g = \rho_b \left(\frac{g_r}{\rho_{br}} \right) \quad \text{Eq. 2.3}$$

where ρ_b is the total bulk density (assumed to be 2.65 g cm^{-3}), g_r is the gravimetric rock-fragment content (%gravel/100), and ρ_{br} is the rock fragment bulk density. Using the volumetric rock fragment content, bulk density of the fine earth fragment (ρ_{bs}) is calculated using the following equation:

$$\rho_{bs} = \rho_b \left(\frac{1 - g_r}{1 - v_g} \right) \quad \text{Eq. 2.4}$$

Additionally, the saturated hydraulic conductivity value obtained from Rosetta must be adjusted to allow for a gravel. The gravel adjusted conductivity K_{sT} is calculated from the following equation (Brakensiek et al., 1986).

$$K_{sT} = K_s (1 - g_r) \quad \text{Eq. 2.5}$$

2.5.2 HYDRUS-1D

The HYDRUS-1D program is a finite element model for simulating one-dimensional movement of water (PC-PROGRESS, 2010). The software is a public domain package that is Windows® based and can be downloaded at <http://www.pc-progress.com/en/Default.aspx?H1D-description#k1>. The program numerically solves saturated and unsaturated flow using the Richard's equation for determining infiltration.

2.5.3 van Genuchten Spreadsheet

A spreadsheet developed for this thesis was used to obtain wetting front soil suction values of the different soil surfaces. The spreadsheet is based on the Mualem (1976) and van Genuchten (1980) equations discussed in the following section.

The van Genuchten equation (1980) was used to evaluate variations in θ and ψ in the final hydrologic/hydraulic surface water model (FLO-2D). Input for the spreadsheet was van Genuchten parameters from both Rosetta and HYDRUS-1D. The equation is:

$$\theta = \theta_r - \frac{(\theta_s - \theta_r)}{[1 + (\alpha\psi)^n]^m} \quad \text{Eq. 2.6}$$

where θ_r is the residual soil water content, θ_s is the saturated soil water content, α is approximately equal to the inverse of the air entry value, n is a fitting parameter that governs the water release rate, and $m = 1 - 1/n$. The calculated water content is then used in FLO-2D, using the form of relative saturation:

$$\Theta = \left(\frac{\theta - \theta_r}{\theta_s - \theta_r} \right) \quad \text{Eq. 2.7}$$

A wetting front soil suction value (ψ_s) used in the G-A equation is derived from knowledge of the water content and the van Genuchten equation. The variable is defined as the integral of the soil matric potential across the wetting front by the following equation (Neuman, 1976):

$$|\psi_s| = \int_0^{|\psi|} k_r(\psi) d|\psi| \quad \text{Eq. 2.8}$$

where $kr(\psi)$ is the relative hydraulic conductivity as a function of the soil matric potential. The limits for the integral reflect a completely saturated condition (0) and the unsaturated condition (ψ). The matric potential is also described in Mualem (1976) by the following equation:

$$k_r(\psi) = \frac{\left\{ 1 - (\alpha\psi)^{n-1} [1 + (\alpha\psi)^n]^{-m} \right\}^2}{[1 + (\alpha\psi)^n]^{m/2}} \quad \text{Eq. 2.9}$$

The value of $k_r(\psi)$ is then recalculated across the range in potentials and then evaluated inside the integral to obtain ψ_s . This value of ψ_s is the matric G-A parameter value used in the FLO-2D model.

In addition to ks , ψ_s , and Θ , two other parameters are required as input to the data file of FLO-2D. The first is the initial abstraction (Ia) value. Referenced from Shafer et al. (2009), this value describes that portion of the rainfall that falls on rocks and plants and does not contribute to infiltration or runoff. The other value, labeled IMP, describes the

percentage of impervious area in each grid. This value also includes rocks and plants; however, this variable does contribute to the amount of runoff calculated by the model.

2.5.4 FLO-2D

FLO-2D (O'Brien 2007) is a deterministic model based on simple volume conservation. The software uses both finite difference methods and the dynamic wave momentum equations to route flows over the model topographic domain. Floodwave progression of the flows over unconfined surfaces is controlled by topography and resistance to flow. There are eight potential directions the flows can be routed, including the four compass directions (north, south, east, and west) and the diagonal directions (northeast, northwest, southeast, and southwest). Velocity in each direction is calculated independently of the other seven (O'Brien, 2007).

FLO-2D (O'Brien, 2007) simulates unconfined overland flow using topographic data developed from a digital terrain model. The FLO-2D software package includes a grid developer system (GDS) that overlays a square grid system onto a set of random digital terrain (DTM) points. The data are pre-processed into a series of ASCII files organized by model components.

The FLO-2D model developed for this project was comprised of three main modular subroutines: Control, Floodplain, and Physical Processes. Control modules are the CONT.DAT and the TOLER.DAT files. The Floodplain modules are the CADPTS.DAT and the FPLAIN.DAT files. The Physical Process modules are the OUTFLOW.DAT,

RAIN.DAT, and INFIL.DAT files. Each file controls a different aspect of the overall model. Diagrams of the Control, Floodplain, and Physical process modular subroutines are shown in the following Figures 2.2, 2.3, and 2.4

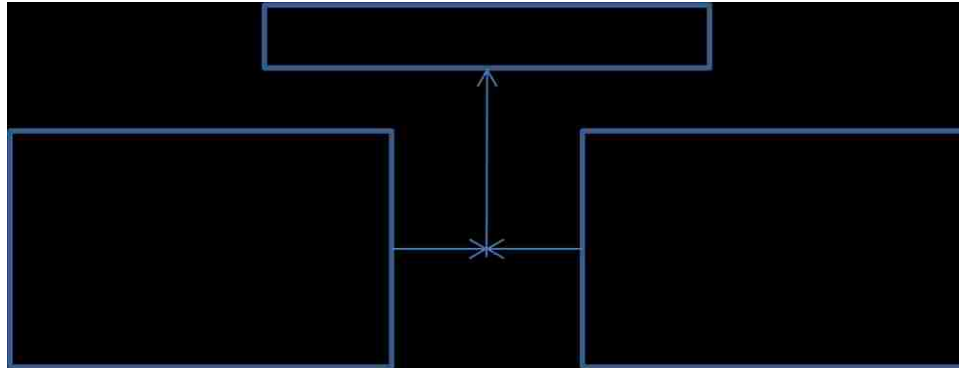


Figure 2.2 Control Subroutine Module (modified from Miller, 1996)

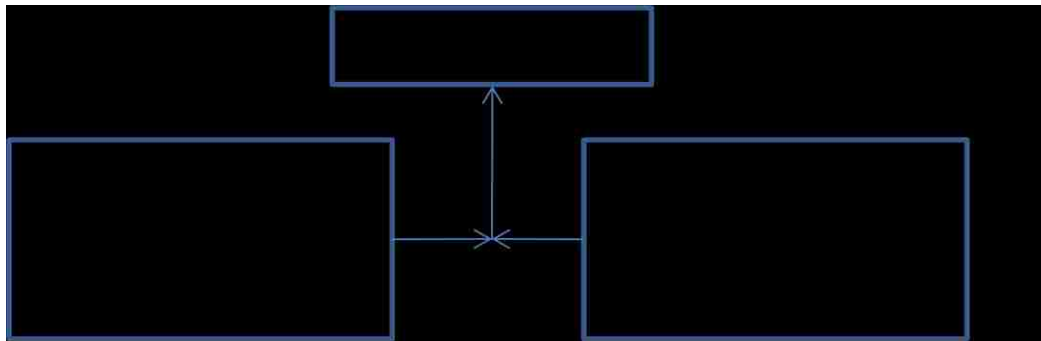


Figure 2.3 Floodplain Subroutine Module (modified from Miller, 1996)

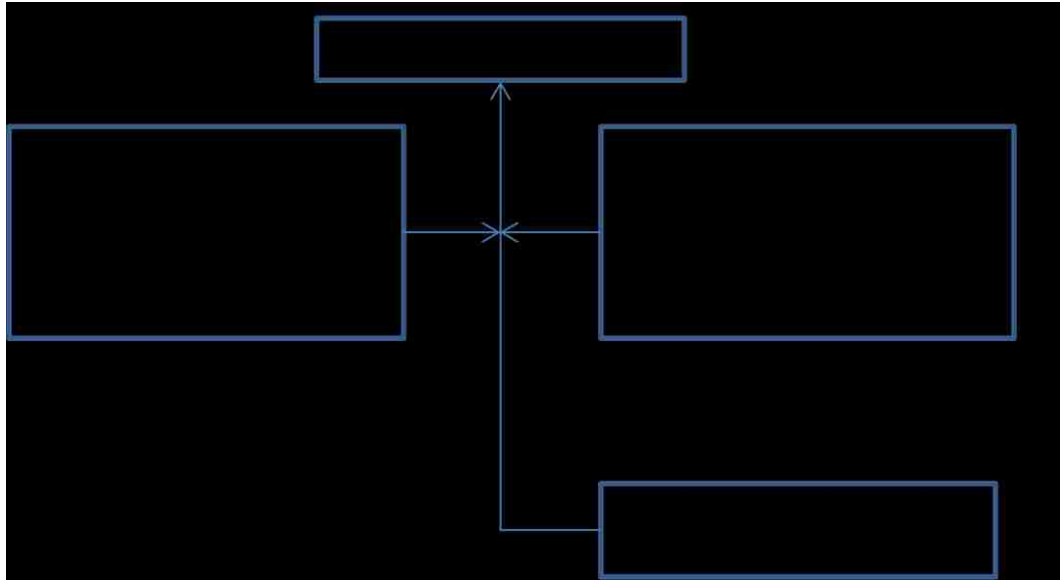


Figure 2.4 Physical Processes Subroutine Module (modified from Miller, 1996)

2.5.5 HEC-1

Developed by the Hydrologic Engineering Center (HEC) of the U.S Army Corps of Engineers, the Hydrologic Modeling System (HEC-HMS) is considered to be the standard hydrologic model used in the United States (Singh and Frevert, 2006). HEC-HMS is based on the previous software package developed by the HEC called HEC-1. The HEC-1 package was originally released in 1968 with the final version being released in 1998 (USACE, 1998). HEC-1 is a lumped parameter model, which represents spatially varied values as single variables. Typically, this is done with a weighted average. Due to

its widespread acceptance and availability, HEC-1 was used as the lumped parameter model in this study.

The HEC-1 model developed for this thesis can also be described as three modules labeled Control, Floodplain, and Physical Processes. The Control group is comprised of the IA and IO Cards. These cards control the timestep function within the software. The Floodplain group is comprised of the BA card and the UD card. These cards control the basin area and the lag time at each sub-basin. The Physical Processes group controls the precipitation and the soil parameters. The HEC-1 input has been organized in Figures 2.5, 2.6, and 2.7 to follow the same scheme as shown for the FLO-2D subroutines.

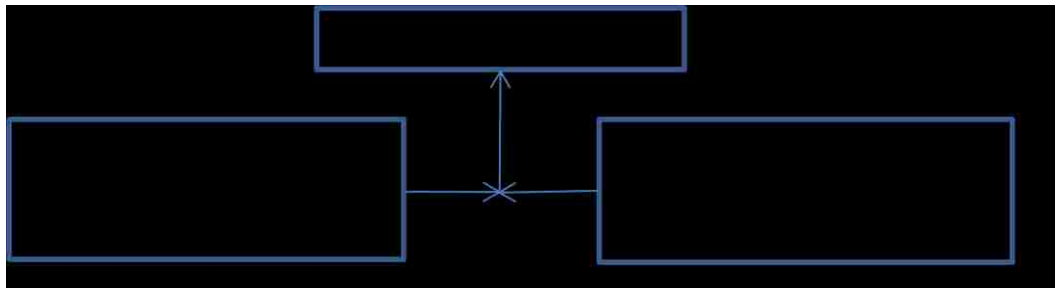


Figure 2.5 Control Subroutines for HEC-1 Data Input

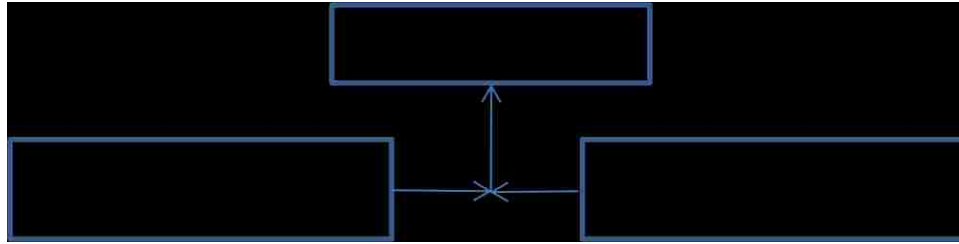


Figure 2.6 Floodplain Subroutines for HEC-1 Data Input

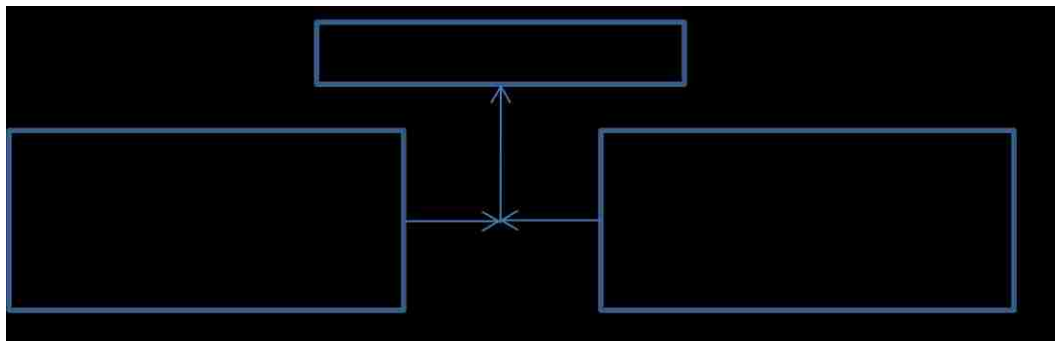


Figure 2.7 Physical Processes Subroutines for HEC-1 Data Input

CHAPTER 3

METHODS

This thesis develops a method by which the effects of AMC and storm frequency can be evaluated on a watershed in the arid Mojave Desert. A brief discussion of the area is provided to show the complexity of the issue as it pertains to the southwest U.S. Existing models can be used regardless of the diverse character of the watershed. Those models that are either developed by or approved by U.S. agencies lend themselves to a streamlined method of evaluating watersheds. HEC-1 (USACE, 1998) and FLO-2D (O'Brien, 2007) are two such modeling packages. However, the raw data are useless to these two software packages unless converted to a usable form.

This section describes a method by which the raw data are developed into values that the HEC-1 and the FLO-2D software packages can use. Each step develops a single G-A parameter for use in the final hydrologic/hydraulic model. First, Rosetta is used to estimate the van Genuchten parameters as well as the final K_s value. These values are used for the HYDRUS-1D simulations to develop the AMC values at the different drying times. These values provide the basis for comparing the influence on runoff using the G-A approach. Then, the van Genuchten parameters and the AMC values are input to the spreadsheet for calculating the corresponding G-A wetting front soil suction values used in the final hydrologic/hydraulic models.

The last step before using the hydrologic/hydraulic models is to develop the precipitation values. Values are referenced from the National Oceanic and Atmospheric Administration (NOAA) website (NOAA, 2010 accessed on 30, March 2010). Simulations for each frequency of storm event (i.e. 500-, 100-, 50-, 25-, and 10-year) are evaluated for each drying time (i.e. 0, 1, 5, 10, and 30 days). A total of 60 simulations were conducted in each of the two hydrologic/hydraulic models.

3.1 Study Area

The study is conducted on a 228 km² watershed in northern Clark County Nevada in the Mojave Desert. The watershed location is shown below in Figure 3.1. The average annual precipitation calculated from September 1999 to August 2008 is 89.5 mm at this location. Two types of storm events occur in the area. Short duration, high intensity convective storms occur in the summer. These are generally localized and isolated. Winter storms are generally long duration, low intensity. These events are generally regional and much larger in area. The majority of the annual precipitation occurs in the winter. Elevations in the study area range from 924 m at the floodplain, and 1,846 m in the mountains (Shafer et al., 2009). Average daily temperatures range from -9° C in the winter to 35° C in the summer (WU 2010).

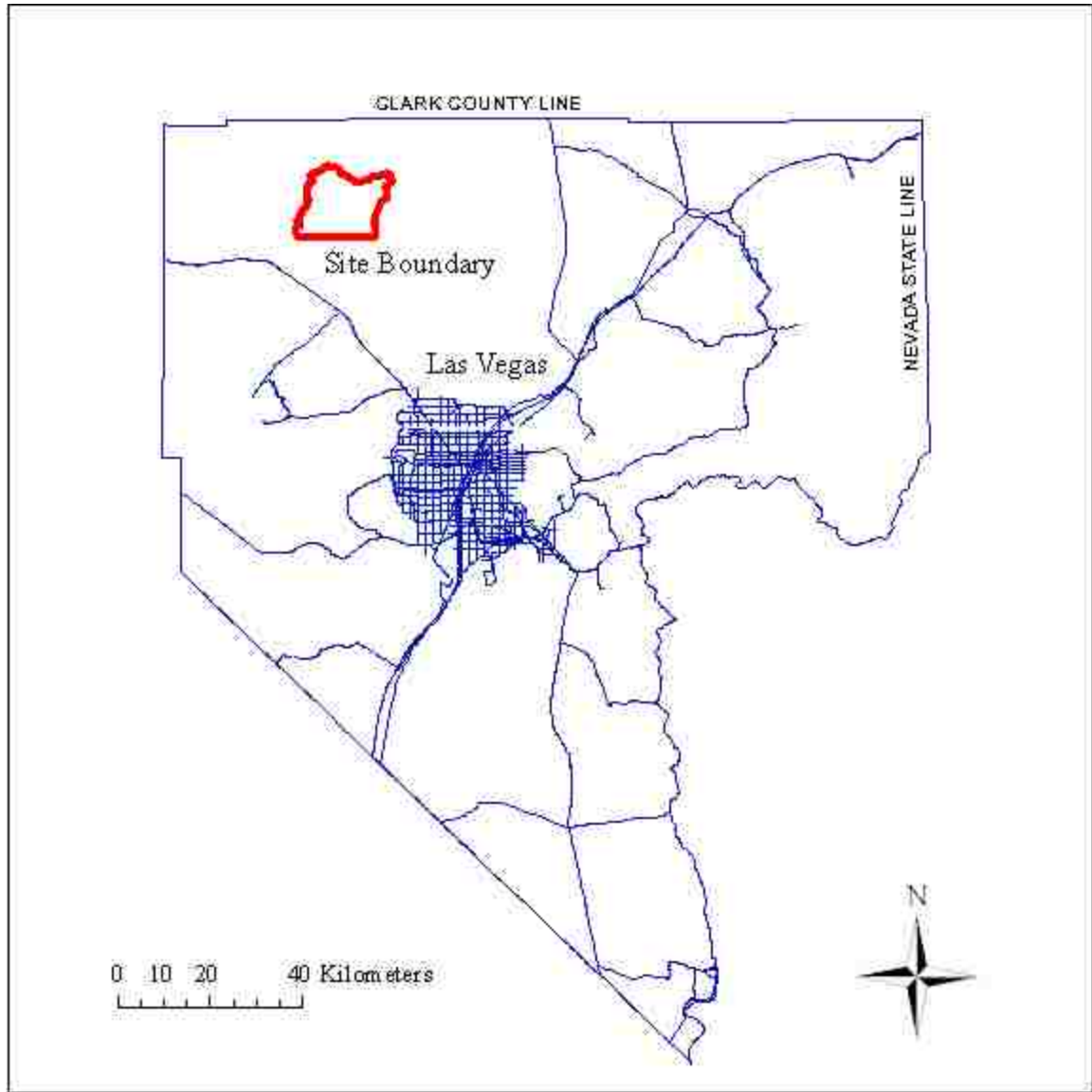


Figure 3.1 Watershed Location Map

The geology and vegetation in the area are typical to the northern Mojave Desert. The geology includes mountainous regions, alluvial fans, and a playa at the southern boundary of the model extent. Vegetation in the area consists of low desert shrubs, such

as White Bursage (*Ambrosia dumosa*), Saltbrush (*Atriplex canescens*), and Mormon Tea (*Ephedra spp*), as well us Joshua Tree (*Yucca brevifolia*), and species of *Opuntia* cactus.

3.1.1 Soil Surfaces

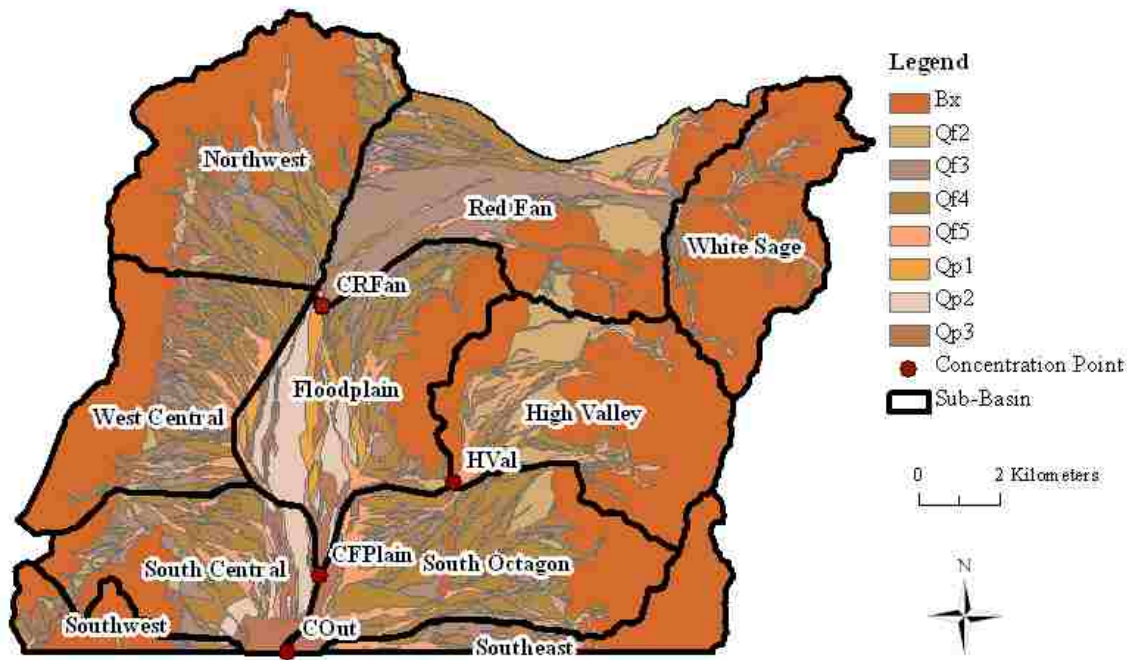


Figure 3.2 Mojave Desert Study Area Soil Surface Map from Shafer et al. (2009)

A brief description of each surface has been referenced from Shafer et al. (2009).

- Qf2 surfaces are remnant and eroded alluvial fan landforms. This surface exhibits a moderately-developed desert pavement surface.

- Qf3 surfaces are dissected alluvial fan surfaces. This surface has a well-developed desert pavement, and consists of tightly-packed, angular cobble to gravel sized varnished veneer. The Qf3 surface is also distinct in its red appearance.
- Qf4 surfaces are alluvial fans. This is the most common surface within the watershed. These surfaces have a discontinuous, poorly- to moderately-developed, angular to sub-rounded, gravel- and cobble sized pavement. Subdued bar and swale morphology is visible on some Qf4 surfaces.
- Qf5 surfaces are alluvial terraces. This surface consists of angular to sub-angular, cobble- to gravel-sized lag at the surface. These surfaces exhibit moderately- to well-formed bar and swale micro-topography. Qf5 surfaces are commonly dissected by active washes.
- Qp1 surfaces are the most recently deposited. These surfaces consist of a mixture of clast sizes, ranging from sub-angular to rounded gravels, to sand and silt.
- Qp2 are the most common of the alluvial plain surfaces. A variable moderately- to well developed desert pavement covers this landform.
- Qp3 surfaces are on the alluvial plain. Located in isolated low gradient areas, they are limited in the watershed area. The well developed desert pavement surfaces are similar to the Qf3 surface.

The percentage area of each of the soil surfaces is shown in Figure 3.3.

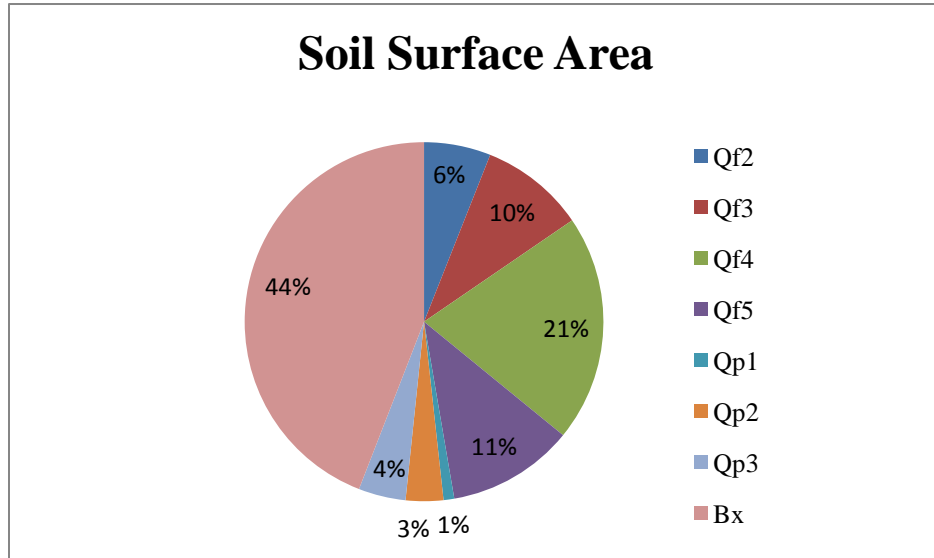


Figure 3.3 Percentage Area of Soil Surfaces for the Mojave Desert Watershed

Figure 3.2 shows that the watershed has been sub-divided into 10 sub-basins labeled White Sage, Red Fan, Northwest, West Central, Floodplain, High Valley, South Octagon, South Central, Southeast, and Southwest. Each is delineated according to the topography of the area. These are the sub-basins that are used in the HEC-1 model. The percentage area that each soil surface occupies on the watershed is shown in Figure 3.4.

Of particular interest to this thesis is avulsion, a process by which flows are diverted out of an established channel into a new course at a lower level (Middleton, 2003). Avulsion can have the effect of increasing or decreasing a sub-basin area. The process can be quite pronounced in a braided channel system. There are a number of ways that

this can happen in a natural environment. Typically, this is caused by a change in gradient such as a transition from mountainous region to floodplain in the FLO-2D model. Within the FLO-2D model this will occur when the flow depth exceeds an adjacent grid cell elevation.

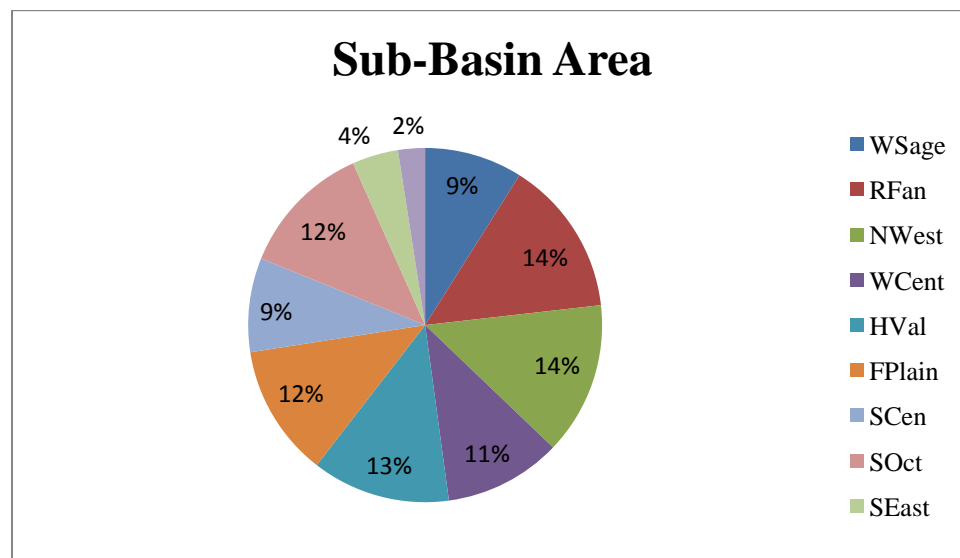


Figure 3.4 Percentage Area of Sub-Basins for the Mojave Desert Watershed

3.2 Watershed Characterization

Characterization of the watershed was accomplished using both digital and site characterization data, and both were taken from Shafer et al. (2009). Both methods are discussed further in this section.

3.2.1 Digital Characterization

Digital data developed for Shafer et al. (2009) defines the elevation information used in the final hydrologic/hydraulic models and was generated from United States Geologic Survey (USGS) DEMs. The grid size of the DEM is 10 m by 10 m. This grid size was later resized to a 30.5 m by 30.5 m grid in the FLO-2D model by merging multiple cells (Shafer et al. 2009). Elevations of each of the smaller cells were then averaged to reflect an overall number for the larger grid size. The watershed boundary, hillshade, and slope grids were all developed using this information in ArcGIS (version 9.2, by Environmental Systems Research Institute, Inc., Redlands, California). Using ArcGIS the boundary conditions in the x- and y- directions as well as the grid elevations were defined. Spatial variation of the soil data was also partially developed using digital data. Spatial variation of the different soil surfaces was defined using USGS 10 meter Digital Orthophoto Quarter Quadrangle photography provided by i-cubed ® and made available through ArcGIS online database. The surfaces were delineated in ArcGIS to create a polygon shapefile. This referenced data was also used in the final hydrologic/hydraulic models.

Boundary conditions for the model were set to provide limits within which the model could be consistently run. These boundary conditions were set by two different methods. The first was provided through the digital elevation model (DEM) provided by Shafer et al. (2009). The DEM provided the boundary conditions in the x- and the y-directions. Using the DEM, the high points for the no flow boundaries were established. The flux

boundary where runoff is moving off the watershed domain was also established using the DEM. No other boundary condition other than the node number was required in the model at the flux boundary condition. The boundary conditions in the z-direction (vertically up and down) are provided by the G-A equation itself, with the first boundary condition established at the soil surface. The rate by which the rainfall enters the soil is established by using two separate cases. The first case provides for the rainfall rate that is less than the soil hydraulic conductivity, in which all rainfall infiltrates. The second case is for the condition where the rainfall intensity is greater than the soil hydraulic conductivity. Both rainfall intensity and hydraulic conductivity are in units of length per time). For the second case, the soil infiltration rate is governed by the G-A equation described later in this thesis. The second boundary condition involves an infinite depth of homogeneous soil. The lower z-axis boundary condition is the wetting front below the soil surface.

3.2.2 Field Characterization

Referenced data used in the characterization of the watershed was gathered through rainfall simulator tests, tension infiltrometer tests, and soil samples. The initial abstraction (Ia) values were developed using the RFS. These data were directly input into the final hydrologic/hydraulic models. All data were obtained from Shafer et al. (2009), and were further used in this thesis in the PTF to populate the geomorphic map shape file

of the watershed. A total of 171 PSD samples and 125 bulk density (ρ_b) values were used. Further explanation of the development of the PTF is included in the following sections.

3.2.3 Referenced Data

Precipitation values used for the 10-, 25-, 50-, 100- and 500-year frequency storms were referenced from the NOAA's web site (2010): Values of 1.91, 3.20, 4.01, 4.70, 5.49, and 7.67 cm, respectively, were used in the comparison. Selection of the precipitation values was based on standard storm frequencies used in civil engineering design. The 10-, 25-, and 50-year frequency events are roadway design storms (NDOT, 2006). The 100-year storm is the standard used by most federal and state agencies, and the National Flood Insurance Program (NFIP) (FEMA, 2002). This storm is used to define the Special Flood Hazard Areas as shown on the NFIP Flood Insurance Rate Maps (FIRM). The 500-year storm is used by FEMA to designate a Shaded Zone X (FEMA, 1995). This is defined as an area prone to a 500-year flood.

3.3 Modeling Procedure

Precipitation variables are developed using standard hydrologic modeling procedures presented in the Clark County Regional Flood Control District (CCRFCD) Drainage Design Manual (1999) for developing rainfall precipitation and intensity values for southern Nevada. Therefore, the creation of hydrologic/hydraulic models is specific to an arid environment (although the method itself does have potential application in other

environments). Each step of the process involves commonly used standard software that simplifies the process and makes it more useful to stakeholders.

3.4 Pedotransfer Functions

Two types of PTFs were evaluated for this thesis. Continuous PTFs using soil sample data were evaluated with two separate linear regression methods. The first is the Backward Stepwise method and the second was the Best Subset regression method. Additionally, an ANN PTF was used to develop the K_s and van Genuchten parameters for use in the multi-model platform.

3.4.1 Statistical Site Specific Pedotransfer Function

A linear regression analysis for the site specific PTF was conducted using the ρ_b , PSD, and the referenced K_s values. The independent variables were ρ_b , and percentages of gravel, sand, silt, and clay. The K_s value was selected as the dependent variable. Two methods for selecting the independent variable were used: a Backward Stepwise Regression and Best Subset Regression.

SigmaPlot 11.0 (Systat Software, 2008) automates the Backward Stepwise regression procedure. The technique selects independent variables for a multiple linear regression equation from a list of candidates through the use of an F-test. The F-test considers two individual equations. One equation has fewer variables than the first, and is a subset of the other. All of the variables in the smaller equation are a part of the larger equation. The

equation with the lower number of variables is considered the null hypothesis. If a (preset) difference is observed in the coefficient of determination values (R^2) between the two separate equations, then the null hypothesis is rejected. In this case, the variable having the lowest impact on the regression, as specified from a minimum value of 3.9, is removed from the list. The process is then repeated until the prediction of the dependent variable is not significantly improved by adding or removing variables.

The Best Subset Regression method is also implemented using SigmaPlot (version 11.0, Systat). The criterion used for the selection of the subsets was the correlation coefficient, or R^2 . This technique evaluates the variables in a multiple linear regression by systematically searching different combinations of independent variables and selecting subsets of variables that best contribute to predicting the dependent variables (Systat, 2008). Generally, the more variables used in an equation, the higher the R^2 value. The Best Subset option provides the user a method to limit the number of subsets of final variables. In this case, the limit value of final variables was set at 1. The Variance Inflation Factor (VIF) is a measure of the multicollinearity. The VIF measures the “inflation” of the standard error for each regression coefficient due to redundant information. If the software calculates a VIF of 1.0, then no redundant information exists. A value much greater than 1.0 indicates redundant variables existing in the equation, and the redundant variable is removed from the equation automatically by the program. The method recommends a value of 4.0 for the analysis.

3.4.2 Rosetta and the Artificial Neural Network Pedo-Transfer Function

Soil samples for each soil surface were evaluated using the standard software package Rosetta (Schaap et al., 2001). As described earlier, Rosetta uses PSD and bulk density (ρ_{bs}). Hydraulic conductivity values were corrected for the gravel content before and after the van Genuchten parameters were calculated with the Rosetta software.

Once adjustment to the bulk density is made, data can be imported to Rosetta by way of either a spreadsheet or database. A separate file for each surface is created in Rosetta using the sand, silt, and clay (SSC) and ρ_b . Once each file has been created, they are opened in Microsoft Access® and the SSC and ρ_b information can be pasted into the database file. Rosetta creates two additional databases after the ANN models have been run. One database includes calculated van Genuchten parameters, including the values for $\theta_s, \theta_r, \alpha$, and n . The θ_s and the θ_r values are given in percentages; however, α and n values are given in their log10 value. The other database gives the log10 K_s value for each record.

The next step in model development incorporates both output databases (created for each soil surface) into a single spreadsheet. Mean values for each field (i.e., $\theta_r, \theta_s, \log 10K_{sT}, \log 10\alpha, \log 10n$, and l) were calculated. Those values in log space were then transformed to their actual values. Values for $\theta_r, \theta_s, \alpha, n$, and l are input to HYDRUS-1D. The K_s value calculated in Rosetta is a constant used in the FLO-2D model. It is also a

constant used for the development of the variables of θ and ψ_s , which are described in detail in the next section.

3.5 Variation of Input Parameters

Because the van Genuchten parameters vary as a function of soil type, two separate processes were necessary to develop the G-A parameters used in the FLO-2D model. Variation of θ_s values used in FLO-2D was accomplished by using HYDRUS-1D (Simunek et al., 1998) for time periods of 1, 5, 10, and 30 days. A spreadsheet based on the closed form equations developed by van Genuchten (1980) was used to calculate the varying ψ_s values.

Referenced soils data is first input to Rosetta where the van Genuchten parameters are calculated. A value of K_s is also calculated and this is the final value used. The output from Rosetta is then input to HYDRUS-1D where a θ for each individual drying time is used. The θ is then input to the spreadsheet with the van Genuchten equations. This calculates the ψ_s . A simplified example of the process is shown below in Figure 3.5.

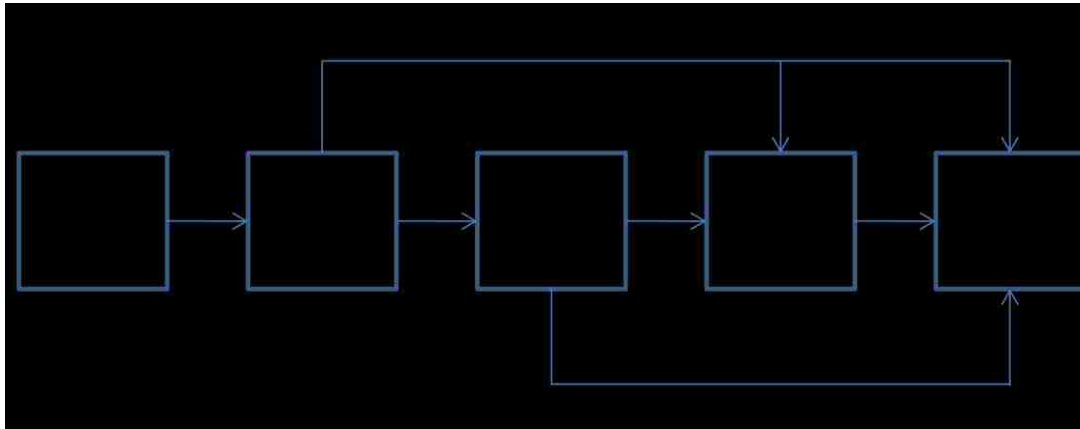


Figure 3.5 Development Process of G-A Soil Parameters

3.5.1 Development of Precipitation Values

The precipitation is defined by the duration, intensity, and frequency of the storm event. Standard methods for developing precipitation variables in southern Nevada use NOAA (NOAA, 2010) references for defining frequency, and CCRFCD (1999) for defining intensity. The design storm for the area is a 6 hour duration event that is typical in late summer months.

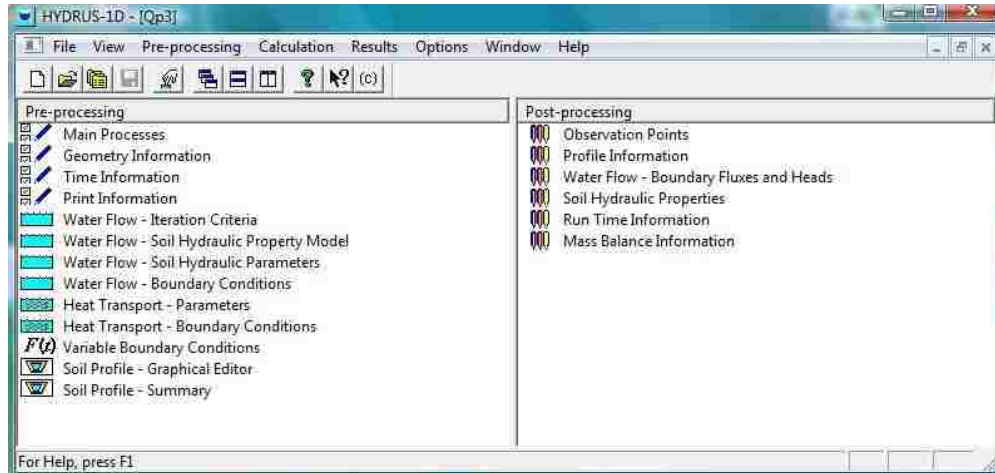
Varying precipitation intensity and storm duration are implemented in FLO-2D and HEC-1 through use of an s-curve. Referenced from the CCRFCD (1999), the Storm Distribution Number 5 (SDN5) s-curve simulates a 6 hour event for watersheds that are greater than 31.1 km² in area. Due to catchment size, the point precipitation value was scaled using a Depth Area Reduction Factor (DARF) of 0.62 (CCRFCD 1999). The point precipitation and s-curve values are used as input to FLO-2D, as discussed later in this

section. The point precipitation values used are 1.87-, 1.34-, 1.15-, 0.98-, and 0.78-inch for the 500-, 100-, 50-, 25-, and 10-year events.

It is important to consider the affect that the areal size of a storm, and subsequently the DARF, has on the calculated infiltration losses in FLO-2D and HEC-1. This is important especially during the first condition in G-A were $w < K_s$. In this case all rainfall infiltrates and no runoff is produced. As the areal size of a storm increases, the DARF decreases the rainfall intensity value. However, the K_s value is the same for all size storms.

3.5.2 HYDRUS-1D

Each soil surface was evaluated separately in the HYDRUS-1D software (Simunek et al., 1998), using the van Genuchten parameters of θ_r , θ_s , K_s , α , n , and l , calculated in Rosetta. Soil drydown is defined as the time from a fully saturated condition until the next storm. This drydown occurred over a one month period, and snapshots of output were taken at 1, 5, 10 and 30 days. Input to HYDRUS-1D was subdivided into modules that are categorized as Main Control, Water Flow, Heat Transport, and Soil Profile Information. Additionally, a table is activated through the Time Information menu that allows for Variable Boundary Conditions as input. A copy of the HYDRUS-1D graphic user interface is shown in Figure 3.6.



3.5.3 van Genuchten and Green and Ampt Parameters

Output values developed in both Rosetta and HYDRUS 1D were input to the spreadsheet developed from the van Genuchten and the Mualem equations. The van Genuchten parameters of θ_r , θ_s , α , n , and l were used from the Rosetta output. The values of AMC (i.e. θ_1 , θ_5 , θ_{10} , θ_{30}) were then used to evaluate the corresponding ψ_s .

3.6 FLO-2D

Although the FLO-2D software provides a good geo-processor (the GDS), the method used to develop the θ and the ψ_s values is specific to the Flood Control District of Maricopa Country, Arizona (FCDMC, 2009). The FLO-2D does not use the van Genuchten equations to develop the G-A parameters. Therefore, a new method was

developed for this study using ArcGIS to vary the G-A variables used in the FLO-2D model.

The INFIL.DAT file was developed in the ArcGIS environment for this study. Before that was done, a link between the FPLAIN.DAT file and the spatial variation of the soil parameters was created using the CADPTS.DAT file.

During the initial processing when the FPLAIN.DAT file is created, each node is given a numeric ID. The numeric ID is key to the development of the INFIL.DAT file, and it links soil parameters specific to that location in space. This was accomplished by processing the CADPTS.DAT file in ArcGIS and creating a point shape file.

The processing of the CADPTS.DAT data is straight forward; however, it is a step-by-step process that involves several different (although readily available) software packages. The first step in the process is to create a dBase file from the CADPTS.DAT file. As previously discussed, the CADPTS.DAT file is a text file that can be opened in any standard spreadsheet file (i.e., Microsoft Excel[®]), and exported to Microsoft Access[®], for processing to FLO-2D. The next step in developing the INFIL.DAT file is to create a point shape file in the ArcGIS environment. Once the shape file with individual nodes is created, it can be spatially joined with the soils polygon shape file in ArcGIS to create the spatially varied portion of the INFIL.DAT file. The resulting point shape file combines the fields from both the point and the polygon shape files, which is then used as input in the FLO-2D model.

3.7 HEC-1

The unit hydrograph method was used in HEC-1. The information required for each sub-basin includes the sub-basin area; precipitation value, soil parameters, and runoff travel (lag) time. ArcGIS was used to develop many of the model input parameters for the Unit Hydrograph calculations.

Subdividing the watershed into smaller sub-basins is the initial step to development of the lumped parameter model. Ten individual sub-basins were delineated from the overall watershed. Each sub-basin is delineated in ArcGIS according to topography. Each was delineated with respect to size where possible to keep the sizes consistent.

The rainfall parameters used in the HEC-1 model are also the same as those used in FLO-2D. The models developed for this study use an SDN5 s-curve to define the unit hydrograph (just as in FLO-2D). The precipitation value is also the same value used in the FLO-2D model and referenced from NOAA (2010).

The HEC-1 model uses the same input variables of K_s , ψ_s , θ , IA , and IMP as the FLO-2D model. The soil values are averaged across each of sub-basin, which can be several km² in area. Typically, a sub-basin encompasses several soil surfaces, so an area-weighted average for soil properties was used. Given the difference in model types (lumped vs. distributed); the variations were expressed differently than in FLO-2D. ArcGIS was also used extensively for developing the G-A parameters used in the HEC-1 model.

The first step in creating weighted values for the soil parameters was to define smaller individual watersheds. Shape files were created in ArcGIS that defined the 10 individual sub-basins, ranging in size from 5.7 to 32.6 km² in area. Sub-basins were then intersected with the overall soil shape file to create individual soil shape files, each having the same overall boundary as the individual sub-basin shapes. Using the Calculate Geometry tool in ArcGIS, the area for each soil type could be calculated for each of the smaller soil type shape files.

Using the boundaries developed in the previous step, flow lengths used in the Lag time calculations were defined. Lag time for larger sub-basins (2.6 km² or larger) is defined by the concentrated flow travel time (CCRFCD, 1999). The equation used for HEC-1 lag times is based on the United States Bureau of Reclamation's (USBR). The study by the USBR (1989) evaluated several drainage basins in the Southwest desert, Great Basin, and Colorado Plateau area. The equation is as follows

$$T_{lag} = 20n(LL_c / S^{0.5})^{0.33} \quad \text{Eq. 3.4}$$

where n is the Manning's roughness coefficient, L is the length of the longest watercourse, L_c is the length along the longest watercourse measured upstream to a point opposite the centroid of the basin, and S is the slope in meters per km. Table 3.1 below shows the values used in the lag time calculations:

Table 3.1 USBR Variables and Sub-Basin Lag Times for the Mojave Desert Watershed

Basin Name	n (-)	L (km)	L _c (km)	S (m/km)	T _{Lag} (hr)
White Sage	0.40	4.23	2.20	13.98	0.60
Red Fan	0.40	11.23	7.39	17.13	1.19
North West	0.40	6.24	3.28	35.25	0.67
West Central	0.40	4.31	3.03	142.74	0.46
High Valley	0.40	9.85	6.05	63.80	0.86
Floodplain	0.40	10.57	4.62	29.45	0.92
South Central	0.40	7.05	3.32	62.20	0.64
South Octagon	0.40	9.32	5.60	32.09	0.92
South East	0.40	5.42	2.00	103.19	0.45
South West	0.40	1.88	0.77	63.01	0.25

Variation of lag times can significantly affect calculated flowrates at each Concentration Point. If peaks for each sub-basin upstream of a concentration point occur at different times, the resulting peak flowrate from the super-positioned addition of the hydrographs will differ from the addition of two sub-basin peak flowrates.

CHAPTER 4

RESULTS AND DISCUSSION

Results from each step of the multi-model process are presented in this chapter. Discussion in the chapter focuses on the progression of the soils data as they are used first for establishing the van Genuchten parameters, and then in the G-A parameters. Peak flowrates calculated in FLO-2D and HEC-1 are then presented. A sensitivity analysis presents the differences between the two models.

4.1 Soil Samples and Soil Parameter Variability

Soil data obtained from Shafer et al. (2009) were characterized to a depth of 2.5 cm and averaged for each geomorphic surface to determine a textural classification. Mean PSD values for all seven geomorphic surfaces indicate that the watershed soils are predominately sandy. Using the mean values of the PSD, each surface was evaluated to determine a textural classification, which was found to be sandy loam across the entire watershed. Table 4.1 shows a summary of the PSD, ρ_{bs} , and textural classification for each soil.

4.2 Pedo-Transfer Functions

Several PTFs were evaluated for this thesis. The first two methods used linear regression techniques to develop continuous PTFs. The Rosetta ANN is also used to

develop the K_s value for this thesis. The following section discusses these PTF in greater detail.

Table 4.1 Soil Sample PSD and Textural Class

Surface	Area (km ²)	No. of Samples	Averages			ρ_{bs} (g/cm ³)	¹ Textural Class
			Sand (%)	Silt (%)	Clay (%)		
Qf2	13.7	46	63.99	26.59	9.28	1.43	Sandy Loam
Qf3	21.5	45	62.00	27.79	10.07	1.45	Sandy Loam
Qf4	46.6	12	62.31	29.77	7.78	1.53	Sandy Loam
Qf5	26.0	29	71.74	21.61	6.55	1.63	Sandy Loam
Qp1	2.2	11	73.22	17.80	8.83	1.52	Sandy Loam
Qp2	7.7	12	75.36	15.37	9.05	1.67	Sandy Loam
Qp3	9.7	16	68.60	23.87	7.43	1.49	Sandy Loam
² Bx	100.5	NA	NA	NA	NA	NA	NA

¹Textural class calculated from referenced average SSC and ρ_{bs} .

²Bedrock (Bx) was not sampled in the referenced study.

³SSC and ρ_b referenced from Shafer et al. (2009)

4.2.1 Best Subset Regression

The initial set of variables include ρ_{bs} , percent sand, percent silt, and Rating, which is a visual measure of the soil structure, ranging from weak to strong using values of 1 through 5, respectively.

The resulting equation gave an R^2 value of 0.136, with the optimum parameter set being ρ_{bs} , percent sand, and Rating. The variable inflation factor (VIF) values are 1.206, 1.041, and 1.229, respectively. The resulting equation is:

$$K_s = 0.137 + 0.651 * \rho_{bs} + 1.375 * \% \text{ sand} - 0.172 * \text{Rating} \quad \text{Eq. 4.1}$$

The R^2 value of 0.136 is very low, thus it was concluded that this equation does not provide an accurate estimate for K_s . Therefore, the linear regression PTF was not used for this study.

4.2.2 Backward Stepwise Analysis

Additionally, a backward stepwise analysis was conducted to evaluate K_s using data from Shafer et al. (2009). The initial set of variables includes ρ_{bs} , % sand, % silt, and Rating.

The analysis indicates that K_s can be predicted from percent sand and Rating, when used as dependent variables. The P test gave results of <0.001 and 0.050, respectively. The P value is the probability that an association exists between the independent and dependent variable. A smaller P value indicates a greater the probability of an association. The resulting equation has an R^2 value of 0.120. The resulting equation is:

$$K_s = 1.560 + 1.086 * \text{percent sand} - 0.230 * \text{Rating} \quad \text{Eq. 4.2}$$

The R^2 value of 0.120 was also found to be very low, and as a result the linear regression PTF was not be used for this study.

4.2.3 Rosetta

The Rosetta PTF function for $\text{SSC}\rho_b$ was used for this study. Each soil sample was evaluated in Rosetta using the percent sand, percent silt, percent clay, and ρ_b . The

calculated van Genuchten parameters for individual samples were then averaged (Table 4.2).

Table 4.2 Rosetta Calculated van Genuchten Parameters

Surface	α (1/cm)	n (-)	${}^1\theta_r$ (-)	${}^1\theta_s$ (-)	K_s (cm/hr)	l (-)
Qf2	0.03	1.51	0.04	0.39	1.74	-0.797
Qf3	0.03	1.50	0.04	0.39	1.36	-0.835
Qf4	0.03	1.45	0.04	0.36	0.98	-1.113
Qf5	0.04	1.58	0.04	0.35	1.26	-1.358
Qp1	0.04	1.55	0.04	0.38	2.11	-1.069
Qp2	0.04	1.57	0.04	0.34	1.45	-1.390
Qp3	0.03	1.60	0.04	0.38	1.70	-0.868

¹Water content values are volumetric.

Little variation was observed in the values for α , n , θ_r , θ_s , and l parameters, and values were consistent for all soil samples. However, there does appear to be more variation in the calculated K_s values. Specifically, the value for Qp1 is relatively high in comparison with the other values. This will affect the calculated flowrates at the outfall of the watershed, as the Qp1 surface is located on the floodplain. The majority of the runoff generated on the watershed will flow through this point to get to the outfall.

4.3 Variation of Input Parameters

All G-A parameters were varied spatially in both the HEC-1 and the FLO-2D models. The values of K_s , θ , and ψ_s are all unique to each soil surface in FLO-2D and to each sub-basin in HEC-1. The K_s values do vary spatially; however, they do not vary temporally. The θ and ψ_s values also vary and are unique to each drying period and soil surface.

4.3.1 Variation of Hydraulic Conductivity

Values of K_s calculated for the FLO-2D model are shown in Table 4.3

Table 4.3 Rosetta Calculated PTF Values for FLO-2D

Soil Surface	Area (km ²)	K_s (cm/hr)
Qf2	13.7	1.74
Qf3	21.5	1.36
Qf4	46.6	0.98
Qf5	26.0	1.26
Qp1	2.2	2.11
Qp2	7.7	1.45
Qp3	9.7	1.70
Bx	100.5	NA

The first PTF developed by Rosetta provided soil values using a Class PTF function, which was not used because all of the samples were a sandy loam; hence, all the property values would be the same. The second PTF uses the SSC percentages from the PSD

analysis. This PTF was not used because more field data was available. Although including additional data does not necessarily mean that the PTF will be more accurate, the source of the data should be considered. The third PTF uses $SSC\rho_b$, with bulk density values taken from Shafer et al. (2009). Two additional PTFs are possible that use $SSC\rho_b$ and water content at two different matric potentials (33 and 1500 kPa); neither were used as these data were not available using site-specific samples. Of the five PTFs available in Rosetta only the $SSC\rho_b$ PTFs was used. PTFs for SSC and $SSC\rho_b$ were evaluated.

In addition to the G-A parameter values used in the model, two other variables are required for both FLO-2D and HEC-1, specifically IMP and the I_a values, which are consistent in both models. Both variables were varied spatially in the HEC-1 and the FLO-2D models, but they do not vary temporally. The IMP value in both models was set at 100 percent for the bedrock (Bx) and 5-percent for all other surfaces, and the I_a values were taken from Shafer et al. (2009). Values of the weighted average K_s values are shown in Table 4.4.

Some difference in the K_s values used in FLO-2D versus HEC-1 was observed. The values calculated for each surface in FLO-2D ranges from 0.98 cm/hr. to 2.11 cm/hr. The weighted values used in HEC-1 range from 1.17 cm/hr to 1.41 cm/hr. HEC-1 does not distribute the K_s variation throughout the model very effectively.

Table 4.4 K_s Values for HEC-1 Models

Sub-Basin Name	Sub-Basin Abbreviation	Area (km ²)	K_s (cm/hr)
White Sage	WSage	20.4	1.17
Red Fan	RFan	32.5	1.34
Northwest	NWest	31.8	1.21
West Central	WCent	24.4	1.21
High Valley	HVal	28.8	1.41
Flood Plain	FPlain	27.5	1.37
South Central	SCen	19.6	1.31
South Octagon	SOct	27.8	1.19
Southeast	SEast	9.6	1.26
Southwest	SWest	5.6	1.39

4.3.2 Variation of Water Content using HYDRUS-1D

The saturated water content value, expressed as relative saturation, was taken as the starting condition in HYDRUS-1D, and the resulting decrease in water content with time was then a function of atmospheric conditions and the soil properties. Initially, the soil dries relatively rapidly (Figure 4.1), as seen by the steep drop in water content for the first 5 days of drying. After 5 days the change in the θ diminished. After approximately 21 days the water content value appears to stabilize at about 30-40 percent for all surfaces.

Although a difference in the water content between the different surfaces was observed, the difference is constant over the 30 day drying period. The shapes of traces for all surfaces were similar, and the drydown rates appear to be similar as well, although final water content values are different based on textural differences. These results indicate that the soils react in a predictable and consistent manner over the course of the 30-day drying period. This consistency also indicates that the watershed runoff response

should react predictably for the different drying times. A summary of the θ values for all seven surfaces is included in Table 4.5.

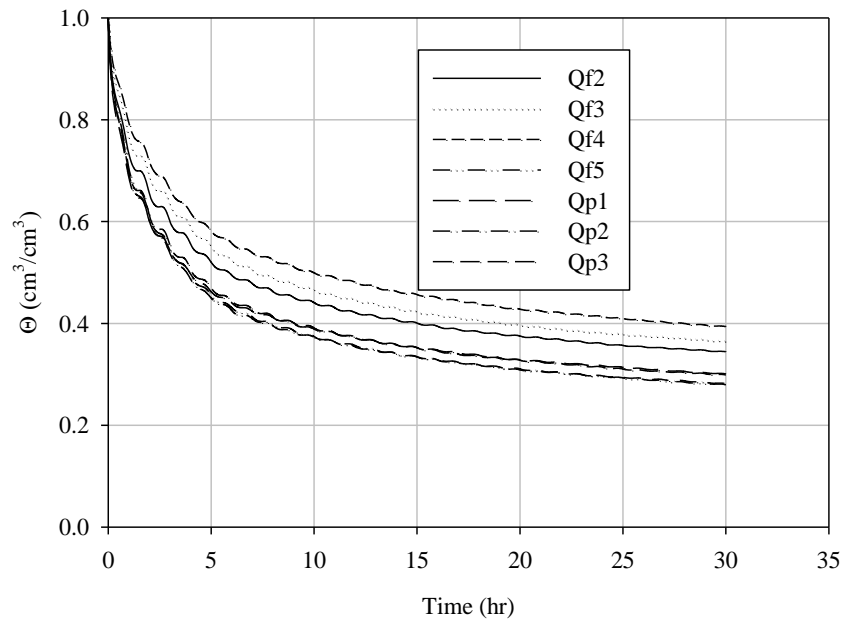


Figure 4.1 Water Content Variation vs. Time for Soil Surfaces on the Mojave Desert Watershed

Table 4.5 Variation of Soil Saturation Values for the FLO-2D Model

Surface	Θ_1	Θ_5	Θ_{10}	Θ_{30}
Qf2	0.70	0.46	0.37	0.26
Qf3	0.73	0.49	0.40	0.28
Qf4	0.77	0.53	0.44	0.32
Qf5	0.67	0.39	0.30	0.19
Qp1	0.65	0.40	0.31	0.21
Qp2	0.65	0.37	0.28	0.18
Qp3	0.66	0.40	0.32	0.21
Min	0.65	0.37	0.28	0.18
Max	0.77	0.53	0.44	0.32

Note that the saturation values are input to the FLO-2D model as soil water deficits, which is the difference between the fully saturated condition (i.e. $\Theta_s = 1$) and the value taken at the specific dry time. For example, for a 1-day drying time at Qf2 the deficit would be $\Theta_s - \Theta_1$, or $1.00 - 0.70 = 0.30$.

Input variables used for the HEC-1 model are developed in a different manner. Weighted values of the soil saturation are calculated for each sub-basin by the percentage of the surface area that it occupies and then summed. As with the FLO-2D model, saturation values were evaluated for each surface and for different drying times (Table 4.6).

A substantial difference was observed in the Θ values used in FLO-2D versus HEC-1. The values calculated for each individual surface in FLO-2D for the 1-, 5-, 10-, and 30-day drying times range from 0.65 - 0.77; 0.37 - 0.53; 0.28 - 0.44; and, 0.18 - 0.32, respectively. The weighted values used in each sub-basin for HEC-1 for the 1-, 5-, 10-,

and 30-day drying times range from 0.70 - 0.73; 0.43 - 0.49; 0.35 - 0.39; and 0.24 - 0.28, respectively. The θ values used in the FLO-2D model vary more than the values used in HEC-1.

Table 4.6 Variation of Soil Saturation Values for the HEC-1 Model

Sub-basin	θ_1	θ_5	θ_{10}	θ_{30}
Name	(-)	(-)	(-)	(-)
WSage	0.73	0.47	0.38	0.27
RFan	0.73	0.48	0.39	0.27
NWest	0.73	0.49	0.39	0.28
WCent	0.73	0.47	0.38	0.27
HVal	0.71	0.46	0.37	0.26
FPlain	0.70	0.43	0.35	0.24
SCen	0.71	0.45	0.36	0.25
SOct	0.73	0.48	0.39	0.28
SEast	0.72	0.47	0.38	0.27
SWest	0.70	0.45	0.36	0.25
Min.	0.70	0.43	0.35	0.24
Max.	0.73	0.49	0.39	0.28

4.3.3 van Genuchten and the Calculation of Green and Ampt Parameters

The water retention curves for all seven surfaces were compared (Figure 4.2). Although it appears as though some variation exists, the curves are fairly close, with Qf5 and Qp2 found to be nearly identical. The relationship of water content to soil water tension is also similar for the Qf2 and the Qf3 soils at fully saturated conditions. Although the graphs have a consistent shape, θ varies with individual ψ values. For example, Figure 4.2 shows that at a ψ value of 10 cm the θ values range from

approximately 0.34 to 0.38. This variation would affect the hydraulic conductivity in the field. However, the G-A method assumes a fully saturated condition. Figure 4.2 indicates that the relationship of soil water content to soil tension is close for all surfaces, especially for soil water tensions of 10,000 cm and higher.

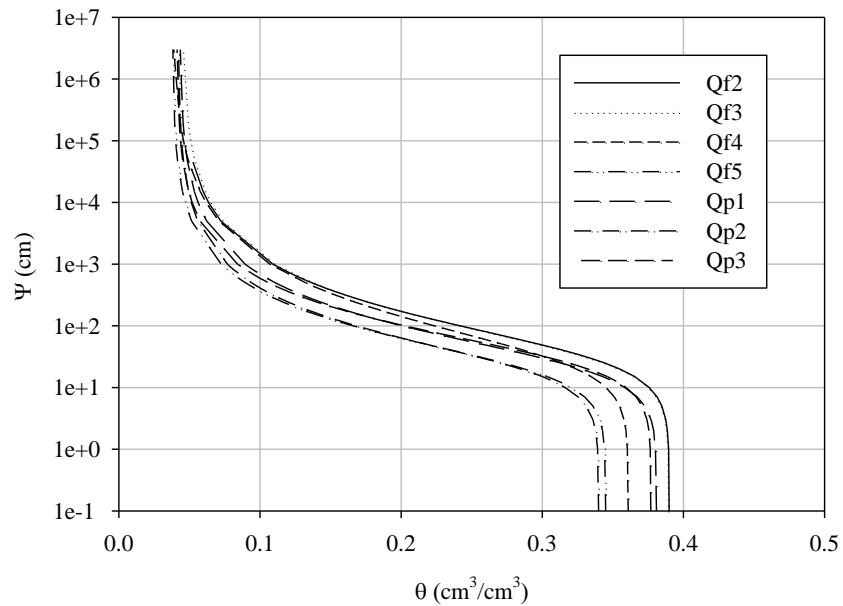


Figure 4.2 Water Retention Curves for Different Soil Surfaces

The next step in the parameter variation is to select the ψ_s values for use in the final FLO-2D and HEC-1 models. The Θ values for each of the drying periods correspond to their associated ψ_s , which are shown in Table 4.7

Table 4.7 FLO-2D Wetting Front Soil Suction Values by Soil Surface

Surface	Ψ_{s1} (cm)	Ψ_{s5} (cm)	Ψ_{s10} (cm)	Ψ_{s30} (cm)
Qf2	4.67	22.07	52.53	233.42
Qf3	4.81	20.69	55.35	266.28
Qf4	3.43	13.47	35.44	171.21
Qf5	3.39	22.89	57.30	211.70
Qp1	3.95	25.32	55.54	163.66
Qp2	3.48	18.64	39.31	114.91
Qp3	5.11	23.42	51.90	159.65
Min.	3.39	13.47	35.44	114.9
Max.	5.11	25.32	57.3	266.3

The calculated ψ_s values do not vary consistently over the 30-day drying period with respect to each individual soil surface. Variations in the van Genuchten parameters do affect the calculated θ values and ψ_s values.

As with K_s and θ , the ψ_s values for the HEC-1 model were averaged for each individual sub-basin (Table 4.8).

Table 4.8 HEC-1 Wetting Front Soil Suction Values by Sub-Basin

Sub-Basin Name	Ψ_1	Ψ_5	Ψ_{10}	Ψ_{30}
WSage	3.62	17.99	47.84	198.05
RFan	4.31	19.83	61.05	233.50
NWest	3.88	17.58	46.98	193.05
WCent	3.79	18.33	48.49	194.39
HVal	4.01	20.07	49.79	212.17
FPlain	3.76	19.28	47.04	169.85
SCen	3.79	18.92	48.56	182.33
SOct	3.76	17.48	46.28	192.35
SEast	3.96	19.28	55.57	216.68
SWest	4.25	20.22	51.51	190.07
Min	3.62	17.48	46.28	169.85
Max	4.31	20.22	61.05	233.50

A substantial difference was observed in the ψ_s values calculated for use in FLO-2D versus HEC-1. The values calculated for each individual surface in FLO-2D for the 1-, 5-, 10-, and 30-day drying times range from 3.39 cm - 5.11 cm; 13.47 cm - 25.32 cm; 35.44 cm - 57.30 cm; and 114.90 cm - 266.30 cm, respectively. The weighted values used in each sub-basin for HEC-1 for the 1-, 5-, 10-, and 30-day drying times range from 3.62 cm - 4.31 cm; 17.48 cm - 20.22 cm; 46.28 cm - 61.05 cm; and 169.85 cm - 233.50 cm, respectively. The ψ_s values used in the FLO-2D model vary far more than the values used in HEC-1.

4.3.4 ArcGIS and FLO-2D Input Data

Spatial variation for the G-A parameters is accomplished using ArcGIS. Each individual grid node in FLO-2D has G-A parameter information attached to it. For each drying time, the values of θ and ψ_s are unique. However, K_s does not vary temporally.

4.4 FLO-2D and HEC-1

The FLO-2D model is not constructed as a flood control model would be typically. The original model referenced from Shafer et al. (2009) was developed as a sediment transport model. However, the development of the HEC-1 model is typical to flood control type models.

Four individual combination points are shown on the maximum depth, and time of inundation figures in the following discussion and comparison. The concentration points of interest have been selected for their location relative to the floodplain (Figure 4.3), of which, three are on the floodplain, and are designated CRFan, CFPlain, and COut. Contributing areas for these points are approximately 84.7-, 165.4-, and 212.8-km². The outfall area does not include the sub-basins of Southeast and Southwest. These values are shown as minimums as they can change due to avulsion on the alluvial fan. The fourth point, labeled HVal, is upstream of COut at the outfall of the High Valley sub-basin. The contributing area for HVal is 28.9 km². Potentially, calculated flowrates for this sub-basin

should provide considerable flow to the COut combination point in both the HEC-1 and the FLO-2D models.

As previously discussed, the K_{eff} value used in several studies has been taken as $0.5K_s$. For the purpose of this thesis FLO-2D and the HEC-1 models have all been developed using a K_{eff} that is equal to half the K_s value as discussed in Chapter 2.

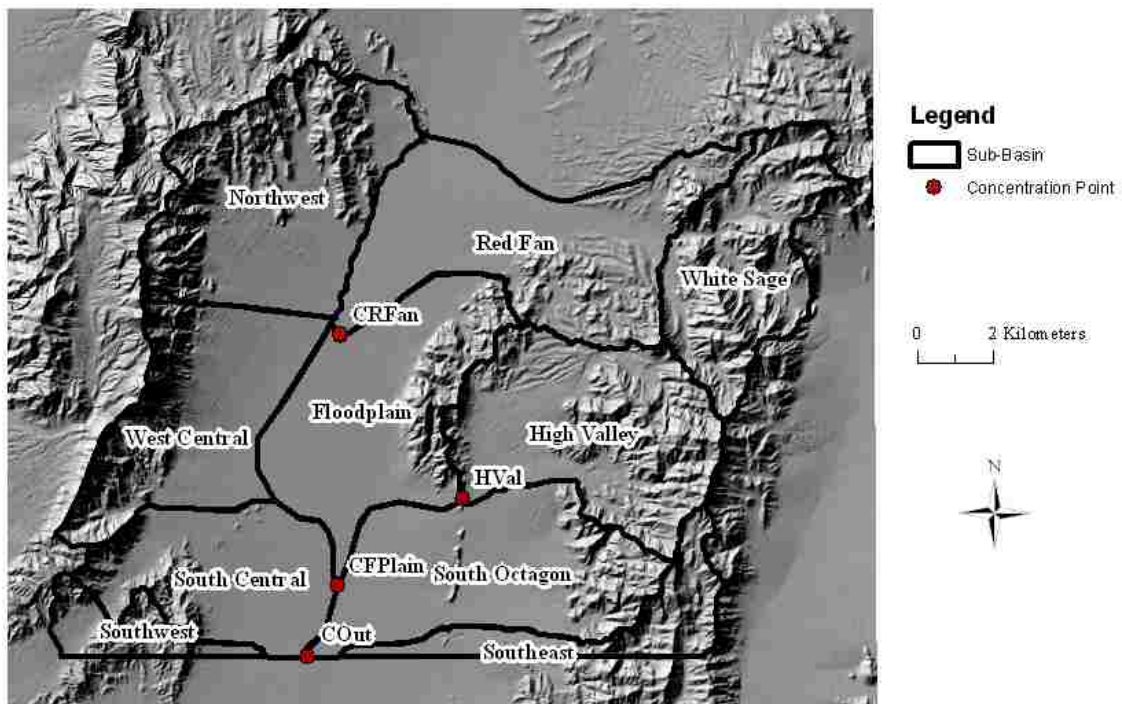


Figure 4.3 Mojave Desert Study Area Sub-basin Map

4.4.1 FLO-2D Models

Results of the FLO-2D simulations are reported in Table 4.9. Simulations for the 10-day drying time were developed; however, the results showed that there was no surface runoff generated at the concentration points; therefore, the results are not reported nor were 30-day drying time simulations conducted.

Table 4.9 FLO-2D Calculated Peak Flowrates

HVal					
Dry Time	500-Year (cms)	100-Year (cms)	50-Year (cms)	25-Year (cms)	10-Year (cms)
0-Day	33.1	10.0	6.3	4.0	2.1
1-Day	30.2	8.5	5.6	3.6	1.8
5-Day	16.1	6.0	3.7	2.3	0.4
CRFan					
Dry Time	500-Year (cms)	100-Year (cms)	50-Year (cms)	25-Year (cms)	10-Year (cms)
0-Day	52.5	15.1	6.6	2.7	1.1
1-Day	48.2	13.2	5.0	2.2	0.7
5-Day	27.0	3.8	1.5	0.2	0.0
CFPlain					
Dry Time	500-Year (cms)	100-Year (cms)	50-Year (cms)	25-Year (cms)	10-Year (cms)
0-Day	18.5	0.1	0.0	0.0	0.0
1-Day	13.1	0.1	0.0	0.0	0.0
5-Day	0.1	0.0	0.0	0.0	0.0
COut					
Dry Time	500-Year (cms)	100-Year (cms)	50-Year (cms)	25-Year (cms)	10-Year (cms)
0-Day	30.2	0.2	0.0	0.0	0.0
1-Day	21.4	0.0	0.0	0.0	0.0
5-Day	20.4	0.0	0.0	0.0	0.0

A significant variation in the flowrates was observed for each frequency storm at concentration point HVal. Calculated flowrates at HVal for the 1-Day drying time have a steadily decreasing rate of decline for all frequency storms. The effect of the variation of storm frequency is non-linear on the calculated flowrates.

The same variation in flowrates shown at HVal is also shown at CRFan. The effect of the variation of storm frequency is non-linear on the calculated flowrates, with a definite downward progression of the calculated peaks.

The progression of the flowwave as the runoff moves downstream toward the floodplain is of concern. Spatial variation of the soil parameters significantly affects the calculated flowrates. Precipitation that falls at the upstream side of the White Sage sub-basin (if it were to travel to the watershed outfall) would progress through the Red Fan sub-basin to the CRFan concentration point, then to the FPlain and COut concentration points downstream. However, the floodwave does not progress downstream of CRFan, rather the flows progress into the floodplain region. The K_{eff} values of the Qp surfaces and the low slope along the axial length of the floodplain allow all runoff to infiltrate. This is occurring for all frequency storms and all drying periods.

The actual topography of the area shows numerous braided channels indicating that surface flow is occurring on a fairly frequent basis. Much more frequent than the 500- and 100-year events that the FLO-2D model is indicating.

Hydrographs for the 500- and 100-year storm events were prepared at the CRFan, CFPlain, and COut concentration points to show the progression of the floodwave downstream. Additionally, hydrographs from the HVal concentration point were included to show the relationship of a single basin as it relates to the overall watershed runoff response. Calculated peak flowrates at CRFan are the highest of the four concentration points shown. This makes sense for the CRFan/HVal comparison given the difference in upstream areas. However, the progression of the floodwave from CRFan through CFPlain shows a reduction in flowrates, which is counterintuitive given the increase in contributing area from CRFan to CFPlain. The peak then increases from CFPlain to COut (Figures 4.4). The hydrograph in Figure 4.5 shows that no runoff travels downstream of the floodplain region to the CFPlain for the 500-year event for the 5-Day drying time. The hydrographs for the 100-year event and all drying time scenarios show that all runoff generated upstream of CRFan infiltrates at the floodplain.

The hydrographs for the 100-year event are similar to the 500-year event at the 5-day drying scenario. Runoff is calculated at the CRFan concentration point; however, the floodwave does not travel to the FPlain concentration point indicating that the K_{eff} values are high enough that all runoff from upstream infiltrates in the floodplain area.

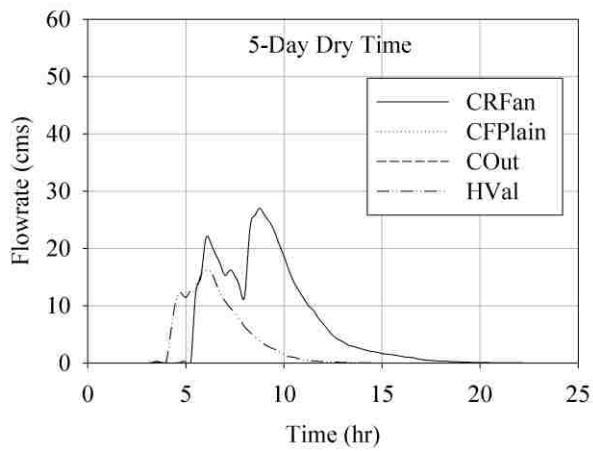
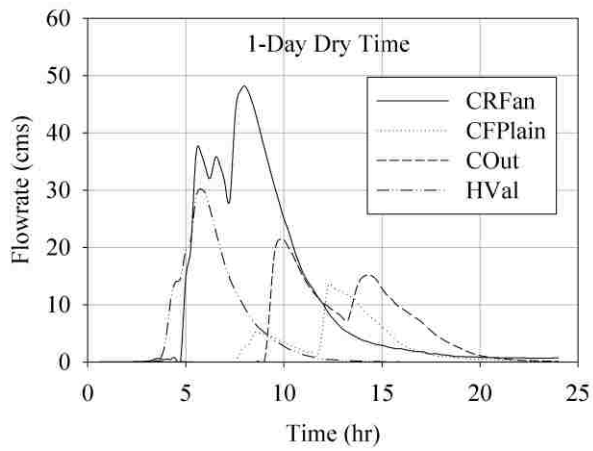
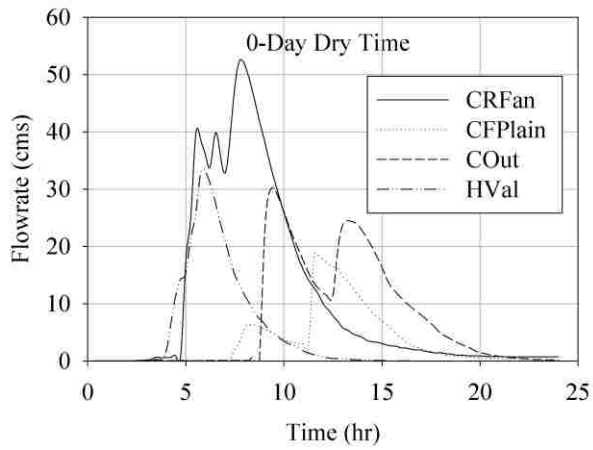


Figure 4.4 FLO-2D 500-Year Floodwave Progression

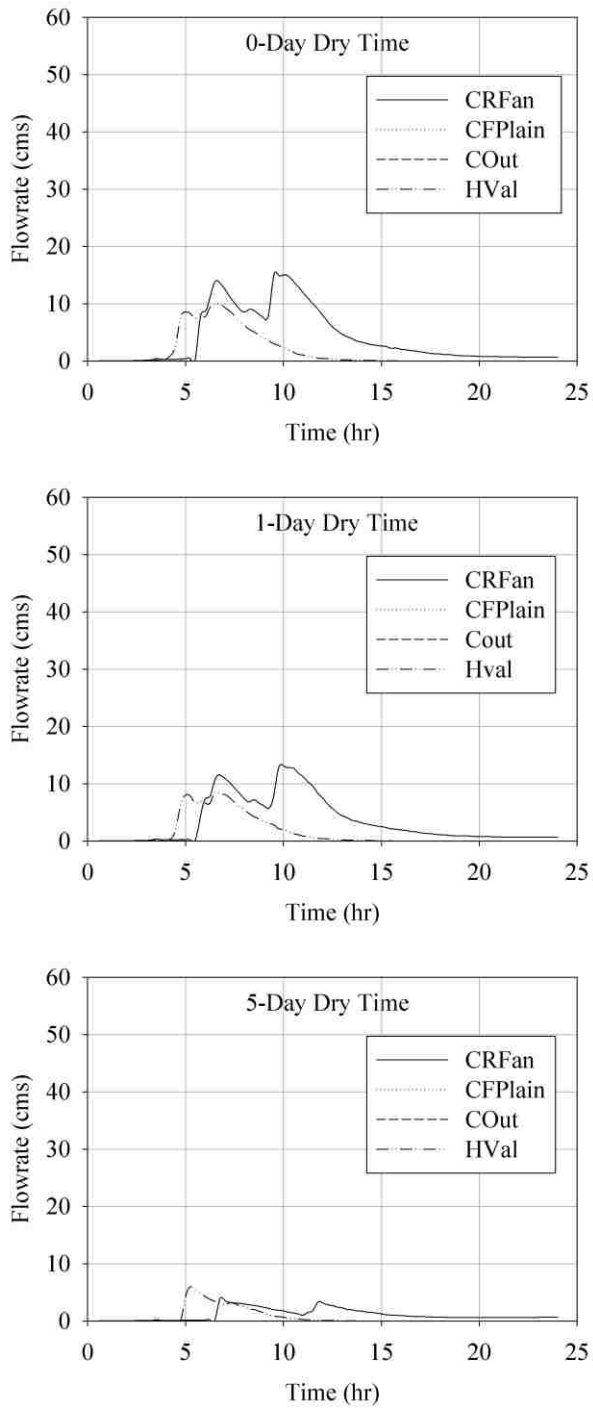


Figure 4.5 FLO-2D 100-Year Floodwave progression

With the exception of the hydrographs calculated in FLO-2D for HVal, each of the concentration points is showing a multi-peak hydrograph. A good example is the 500-year frequency storm with a 1-day drying time. The CFPlain concentration point shows a peak at approximately 8.5 hours of 5 cms, and a second peak at approximately 13 hours of 13.1 cms. The first peak is generated by the mountains in the northwest corner of the watershed. The second peak is generated by the mountains at the northeast corner of the watershed. The second floodwave takes a considerable amount of time to travel through the wash along the northern boundary of the watershed. This behavior is typical at all concentration points where flowrates are generated in mountainous regions and are impacting at different times.

4.4.2 HEC-1 Models

HEC-1 models were developed for each scenario modeled in FLO-2D (see Table 4.10). These models were not developed for a direct comparison of flowrates and volume; rather, they were developed to observe if trends developed in the FLO-2D models were also represented in a lumped parameter model.

Hydrographs for the 500- and the 100-year events were prepared at CRFan, CFPlain, and COut. Although the magnitude of the flowrates decreases as the drying times increase, the hydrographs show a steadily increasing magnitude through the watershed. Whereas the FLO-2D models indicate that flow does not extend past the FPlain concentration point, the HEC-1 models show that it does. Calculated peak flowrates are

higher at the FPlain concentration point than at the upstream CRFan concentration point. This is the expected progression that should occur on the watershed. Hydrographs showing the progression of the flood wave as it progresses through the watershed at concentration points CRFan, CFPlain, and COut are shown in Figures 4.6 and 4.7.

Table 4.10 HEC-1 Calculated Peak Flowrates

HVal					
Dry Time	500-Year (cms)	100-Year (cms)	50-Year (cms)	25-Year (cms)	10-Year (cms)
0-Day	79.5	46.7	36.0	26.3	17.3
1-Day	61.1	28.7	18.8	10.2	4.1
5-Day	10.0	0.6	0.5	0.4	0.3
CRFan					
Dry Time	500-Year (cms)	100-Year (cms)	50-Year (cms)	25-Year (cms)	10-Year (cms)
0-Day	176.8	104.2	81.2	59.1	39.6
1-Day	137.8	67.1	46.2	27.1	12.7
5-Day	34.2	1.8	1.0	0.8	0.7
CFPlain					
Dry Time	500-Year (cms)	100-Year (cms)	50-Year (cms)	25-Year (cms)	10-Year (cms)
0-Day	236.8	133.0	101.6	73.4	48.6
1-Day	179.7	82.1	56.2	32.5	14.9
5-Day	38.8	2.0	1.2	1.0	0.8
COut					
Dry Time	500-Year (cms)	100-Year (cms)	50-Year (cms)	25-Year (cms)	10-Year (cms)
0-Day	364.8	209.8	161.6	116.2	76.4
1-Day	277.7	129.8	87.4	50.1	22.7
5-Day	57.1	2.8	1.7	1.5	1.2

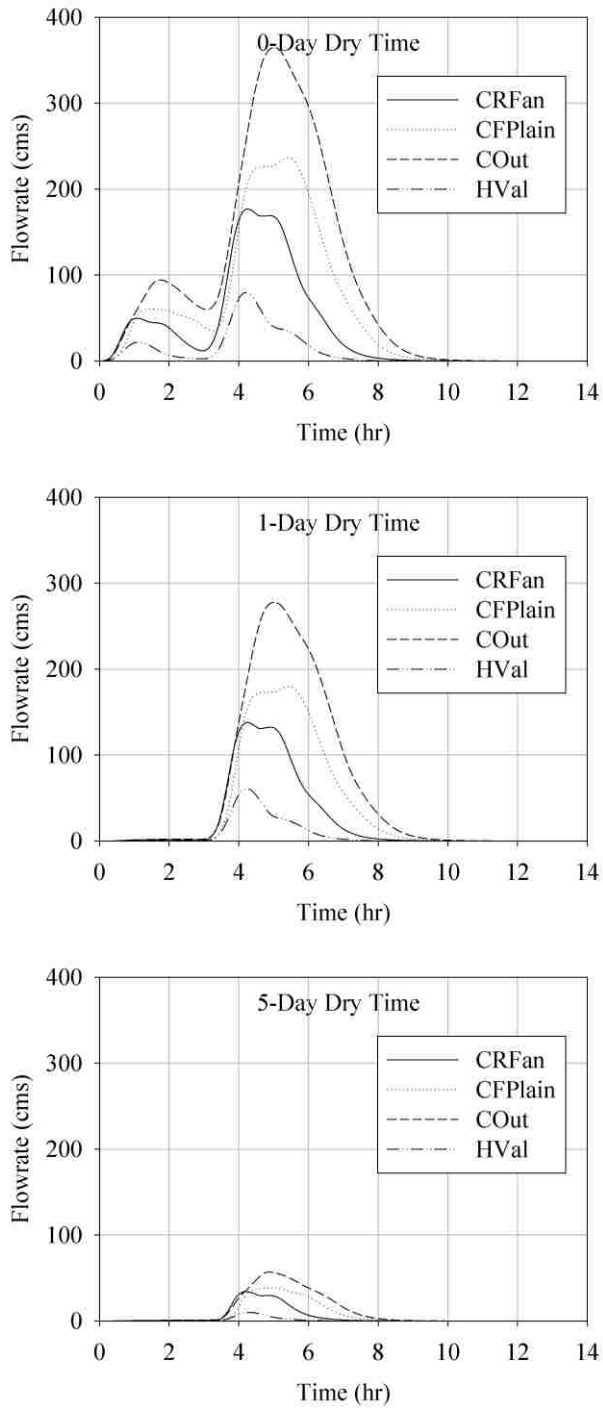


Figure 4.6 HEC-1 500-Year Floodwave Progression Hydrographs

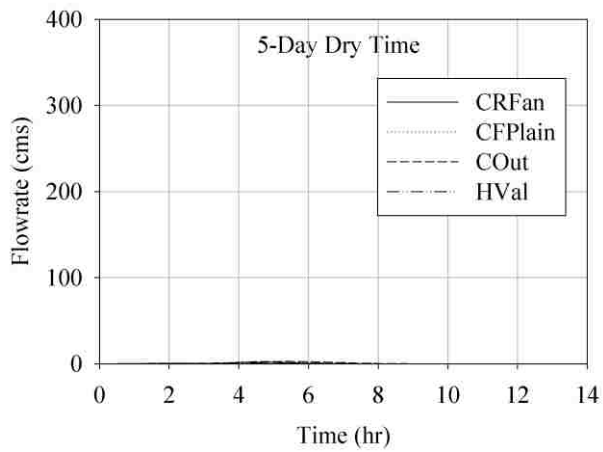
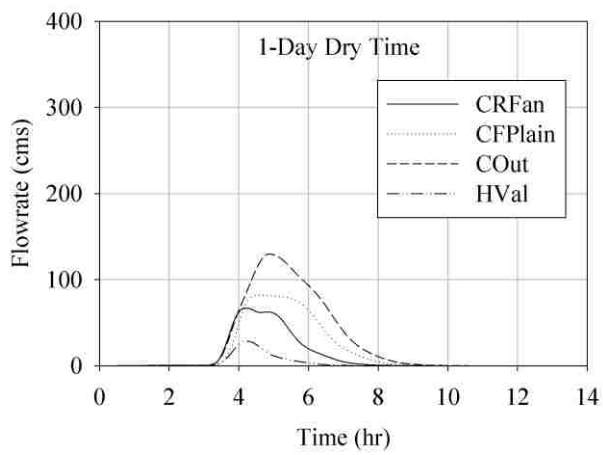
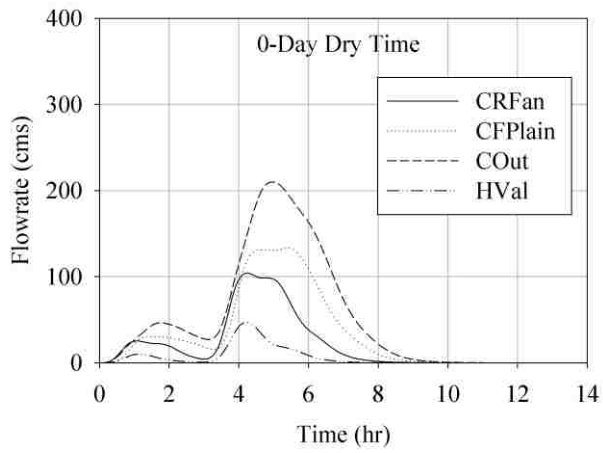


Figure 4.7 HEC-1 100-Year Floodwave Progression Hydrographs

The floodwave, in all cases, shows a well defined increase in flowrate as it progresses though the watershed. The magnitude of the floodwave also decreases as the soil becomes drier.

4.5 Sensitivity Analysis

The FLO-2D models using the G-A method yield flowrates that are considerably different from the HEC-1 models. Peak flowrates calculated in HEC-1 are considerably higher than those calculated in FLO-2D. Because a significant difference exists in the calculated flowrates, a sensitivity analysis was conducted that would compare model output for two different conditions. The first used a hydraulic conductivity value of $0.1K_s$. The other analyzed the watershed at a nearly impervious condition. The goal of the analyses was to compare the sensitivity of FLO-2D and HEC-1 to the variation of soil parameters.

The first simulation used an effective hydraulic conductivity (K_{eff}) of $0.1K_s$. Results were then compared to those obtained using a K_{eff} equal to $0.5K_s$. The results of the FLO-2D models using K_{eff} are included in Table 4.11.

Table 4.11 FLO-2D Hydraulic Conductivity Sensitivity Analysis

Point	0.5K _s		0.1K _s	
	100-Yr.	500-Yr.	100-Yr.	500-Yr.
	(cms)	(cms)	(cms)	(cms)
HVal	8.5	30.2	27.3	55.9
CRFan	13.2	48.2	49.6	113.2
CFPlain	0.1	13.1	39.2	91.0
COut	0.0	21.4	78.8	199.2

Calculated peak flowrates in FLO-2D varied considerably for the different input values of K_{eff} . As was expected the peak flowrates calculated using $0.1K_s$ were higher. For the 100-year event at HVal and CRFan the increase in peak values was 3 times or greater. The effect of the lower K_s value had on the floodwave through the watershed was also considerable. For example, the simulation using the $0.5K_s$ value for the 100-year event showed the floodwave ending at CFPlain. The simulation for the 500-year event using $0.5K_s$ showed the floodwave progressing to the outfall. However, a considerable drop in peak flowrates was observed from CRFan to CFPlain. Given the increase in area from CRFan to CFPlain, the change indicates that spatial variation of infiltration (due to K_{eff}) has a considerable effect on the flows that are routed from upstream areas, even with the lower rates present at $0.1K_s$. Spatial variation of the hydraulic conductivity still influences the infiltration loss calculated in the model.

A comparison of the different K_{eff} values was also conducted using the HEC-1 model for the 100-year 1-day drying time with $K_{eff} = 0.1K_s$ values. Results are shown in Table 4.12.

Table 4.12 HEC-1 Hydraulic Conductivity Sensitivity Analysis

Point	0.5 K_s		0.1 K_s	
	100-Yr.	500-Yr.	100-Yr.	500-Yr.
	(cms)	(cms)	(cms)	(cms)
HVal	28.7	61.1	68.8	106.5
CRFan	67.1	137.8	154.1	240.9
CFPlain	82.1	179.7	219.4	346.5
COut	129.8	277.7	330.5	526.0

As expected an increase in the calculated peak flowrates did occur when hydraulic conductivity increased. Flowrates were seen to increase roughly 2 times the original value when $K_{eff} = 0.5K_s$. The revised K_{eff} values also did not noticeably effect the progression of the floodwave through the watershed. As the contributing area increased from CRFan to CFPlain to COut, the peak flowrates increased. Additionally, the increase in flowrates for the 100-year to the 500-year events was not as pronounced in HEC-1 as in FLO-2D. This was especially true for the lower watershed concentration points. Increases in calculated flowrates for HEC-1 are shown to be approximately twice as much. An example would be the increase at COut from 115.5 to 330.6 cubic meters per

second (cms). In FLO_2D a percentage calculation is impossible because the flowrate increases from 0 to 78.8 cms.

Spatial variation of K_s was shown to affect calculated peak flowrates in FLO-2D. The decreased peak flowrate between CRFan and CFPlain for the 500-year that showed infiltration was still evident. This can be explained by a number of factors. Infiltration during routing from upstream to downstream concentration points is not considered in HEC-1, which considers only infiltration of rainfall and run-on is considered at each grid cell as the flows progress downstream. Spatial variation of K_{eff} in the HEC-1 model was also eliminated within each sub-basin, where averages were used.

The second sensitivity analysis considered the effect of precipitation between FLO-2D and HEC-1. Both models were evaluated for (nearly) impermeable condition where K_{eff} was set at $0.01K_s$. The G-A parameters of $\Delta\theta$ and ψ_s were revised to a saturated condition for both variables in the models. The $\Delta\theta$ for a saturated condition is zero, and the ψ_s for a fully saturated condition is also zero.

Time-to-peak responses in both hydrographs (Figure 4.8) are dramatically different with observed values of time-to-peak at COut of 8.25 hours and 4.92 hours for the FLO-2D and HEC-1 simulations. Differences in how the two models handle floodwave routing account for the 3.33 hour variation in peak flowrate times. Figure 4.8 shows a considerable effect on the attenuation of the peak in FLO-2D, where, values recorded were 302.1 cms and 653.2 cms for FLO-2D and HEC-1, respectively. HEC-1 is

calculating a peak flowrate of more than double that of FLO-2D. The total volume of runoff calculated in HEC-1 is 9,795,000 m³, and the total volume of runoff calculated in FLO-2D is 8,809,500 m³. The HEC-1 volumes show an 11 percent difference in the calculated runoff volumes from those calculated in FLO-2D.

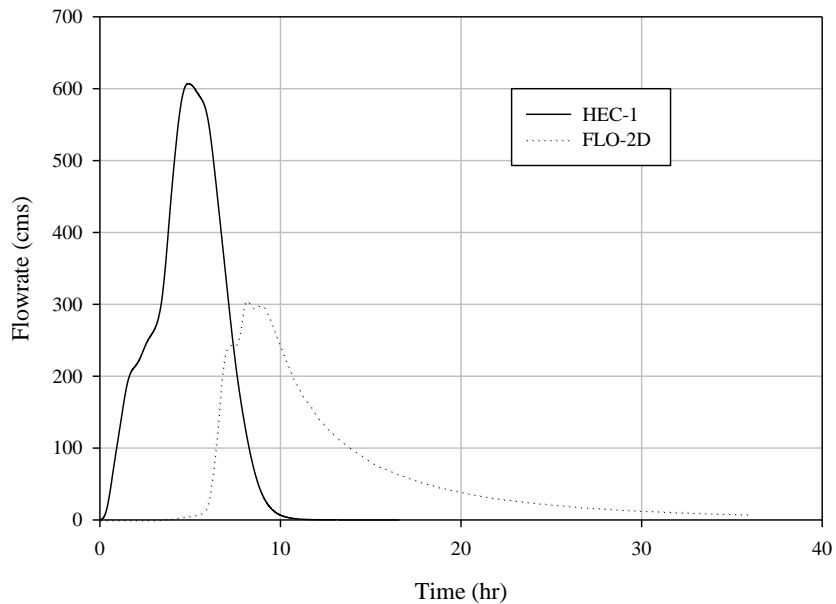


Figure 4.8 Comparison of Calculated Total Volume Hydrograph for FLO-2D and HEC-1 Simulations

CHAPTER 5

CONCLUSIONS

The objective of this thesis is to evaluate the effects of spatial and temporal variability of AMC on model-generated runoff through the use of a PTF. Hydraulic properties of the soils were varied both spatially and temporally for this thesis, and the conclusions to both hypothesis 1 and 2 are included in the following sections.

5.1 Implications to the Spatial Variation Hypothesis

Hypothesis #1 states that the effect of spatially-varied soil hydraulic properties on model generated runoff volumes may depend on the storm return period and the interval of storm succession.

Varying drying times (interval of storm succession) do affect the overall watershed runoff response. Flowrates for individual drying times show a definite reduction as the drying time increases from 0-day to 5-day. For the concentration point HVal, the 100-year flowrate decreases by 15 percent from 0-day to 1-day, and 29 percent from 1-day to 5-day. A similar trend is seen at CRFan, where the flowrate decreases by 13 percent from 0-day to 1-day. The change in flowrate is more pronounced at CRFan for the 100-year event between the 1-day and the 5-day where the change is 71 percent. However, the effect of different storm frequencies when compared to spatial variation of the soil hydraulic properties appears to be negligible for both the FLO-2D and HEC-1 models.

Spatial variation of soil parameters, in terms of the degree of saturation and water potential at the wetting front, does appear to have a considerable effect on the calculated flowrates in the FLO-2D model for this watershed when compared to the storm frequency. This is especially true toward the lower portion of the watershed. Here, flows are reduced at concentration points CFPlain and COut for all drying times and storm frequencies. In the upper portion of the watershed (CRFan and HVal), drying times and storm frequency are shown to affect calculated flows. Effective hydraulic conductivity is the main factor that affects infiltration, and the runoff hydrographs on the lower watershed. The hypothesis was proven true as the effect of soil hydraulic properties on model-generated runoff does depend on storm frequency in the FLO-2D model.

Spatial variation of the soil parameters in the HEC-1 model is limited, and is not represented at all within the sub-basins. Review of flowrates shown in Table 4.10 indicates that as the floodwave progresses downstream, AMC and storm frequency does affect runoff response. The effect of θ variation on calculated flowrates can be seen for the first 5 days when flowrates are reduced at all concentration points, and very low for higher frequency storms at the 5-day drying time. Model generated flowrates are very low for the higher frequency storms at the 5-day time. For successive storm events that occur within the 5-day window, the result show that drying time and storm frequency did considerably affect the calculated flowrates in HEC-1. The hypothesis was proven true

as the effect of soil hydraulic properties on model-generated runoff does depend on storm frequency in the HEC-1 model.

5.2 Implications to the Temporal Variability Hypothesis

Hypothesis #2 states that the AMC, or soil moisture content, may have a larger affect on model generated runoff volumes than hydraulic conductivity, depending on the storm return period and the interval of storm succession (drying time).

Antecedent moisture content was shown to affect runoff hydrographs for the lower frequency storms in FLO-2D. Calculated flowrates at the HVal and CRFan concentration points decrease between for the 0-day (fully saturated condition) and the 1-day drying time. This decrease occurs as the storm frequency increases, highlighting the importance of initial saturation. This tendency is also evident for the 5-day drying period, although to a lesser extent. After the 5-day drying period, there was no flow at these two concentration points. Therefore, thresholds appear to exist, where runoff does not occur for any storm intensity, after a sufficient drying period at these upland concentration points, in this case about 5 days. Increased infiltration rates due to higher moisture deficits, as expressed by lower θ and higher ψ_s values in the G-A equation, eventually reduce any excess water that could be routed as surface runoff. Therefore, for both upland concentration points, the AMC was shown to have a significant effect on the model generated runoff, and the hypothesis is proven true at this location.

Toward the lower portion of this watershed, however, the variation of K_s appears to have a more significant effect on the outfall flowrates in the FLO-2D model, than does the AMC. The results of the FLO-2D model show the area downstream of CRFan (i.e., in the younger floodplain sediments) is sufficiently permeable to infiltrate all rainfall and all runoff from upstream sub-basins, regardless of the AMC. The hydraulic conductivity was sufficiently high in this floodplain area to remove any excess water before reaching CFPlain. The variation in storm frequency has no affect on the watershed runoff response for the lower portion of the watershed. It is the variation of the hydraulic conductivity that was the important factor for the lower watershed, and the hypothesis was proven false at this location.

Substantially more surface runoff was predicted with the HEC-1 model, thus allowing for an analysis of AMC on the rainfall/runoff process for the lower frequency storms. For wetter conditions, and the 0-day and 1-day drying times, calculated flowrates decrease at all concentration points as storm frequency increases. This tendency was also observed for the 5-day drying period, but to a lesser extent. Decrease infiltration rates due to higher θ and ψ_s values in the G-A equation do not allow for runoff to occur in the model. Therefore, the AMC does significantly affect model generated runoff at this watershed, but only for drying periods shorter than about 5 days.

The effect of spatial variability of hydraulic conductivity on calculated flowrates in HEC-1 is somewhat muted by the lumped parameter nature of the model itself, where

only effective averages are used. The results do show, however, that water is being routed from upland to lowland concentration points, as seen by increasing flowrates at successive concentration points as the flood wave progresses downstream. However, the rate of change in flow rate decreases. For example, for the 500-year event and 1-day drying period, flowrates predicted from CRFan, CFPlain and COut to be 176.9, 271.1, and 315.9 cms, respectively; at each concentration point, the percentage increase in flow decreases, even though the percentage drainage area increases (84.7-, 165.4-, and 212.8- km² respectively). Therefore, although spatial variability within each sub-basin is not expressed in HEC-1, the effective average of hydraulic conductivity does vary across the watershed, allowing some assessment of variability.

5.3 Implications to Public Policy

Regional flood control districts and municipalities are required to comply with national standards concerning the major storm event (100-year). However, these entities are not directed to which AMC values should be used. The San Bernardino County Public Works Department recently (April 6, 2010) updated their hydrology manual to use AMC I (dry condition) values for all arid regions within their domain. Given the results of this thesis, where calculated flowrates after 1 day of drying versus 5 days of drying can reduce flowrates by 25 percent or more, using the wetter conditions would provide more conservative estimates of runoff, especially for conditions where successive storm events

are more likely. Ultimately, individual municipalities must estimate AMC for developing hydrologic models in their respective areas, and balance the risks of successive storms on the potentially higher flows. By considering likely recurrence intervals with the overall cost savings for designing flood control facilities, more capital could be available for other projects, thereby providing greater protection to the general public.

5.4 Sources of Uncertainty and Error

Several potential sources of error were observed in this study. The digital data (e.g. DEM data), field soil and hydraulic property data, storm description methods (i.e. storm frequency and duration), the PTF method that converts soil physical data to hydraulic properties, and the K_{eff} value can all introduce significant error to the model results.

- The digital data scale used for these models is commonly used by scientists and engineers at a grid of 10-m by 10-m, with a geomorphic mapping was at a 1 : 24,000 scale. Both scales can neglect topographic features on the alluvial fan because the features are smaller than the scale of the map.
- The field characterization methods also introduce error by not representing the true spatial variation of the soil parameters. In this case, Shafer et al. (2009) characterized the 228 km² with a total of 171 measurements of particle size and thus the number of samples may not reflect the actual spatial variability of the soil surfaces. The s-curve used for the unit hydrograph in both the HEC-1

and FLO-2D models may also introduce error.

- The s-curve referenced from the CCRFCD Drainage Design Manual (1999) was specifically developed for the Las Vegas area. Topography of the two areas is different, potentially influencing the storm intensity and duration.
- The PTF also can introduce error to the models. The PTF of Schaap et al. (2000), as implemented in the program Rosetta, was developed from soils from different environments (including humid and agricultural soils). Incorporating soils data from a wide variety of environments into an arid PTF may introduce uncertainty in the regression relationships.
- The value of K_{eff} is theoretical and is applied in a general way. The general approach to the effective value can introduce error into the models.

The K_{eff} value is the most critical source of uncertainty and error in the hydrologic/hydraulic models. Variation of the K_{eff} value from $0.5K_s$ to $0.1K_s$ is shown to affect calculated flowrates. As shown in the sensitivity analysis a reduction in the effective hydraulic conductivity of the soil resulted in an increase in calculated flowrates of approximately 85% for the 500-year event and 150% for the 100-year event. Because the actual value of K_{eff} is unknown there is a great deal of potential for error in the final models.

5.5 Further Research

Green and Ampt is a viable method for calculating infiltration losses for semi-arid (Wilcox et al. 1990; Castillo et al. 2003), sub-humid (Wang et al. 2010), and humid environments (Zhuoru et al. 1993). The characteristic soil properties can be used to define soil in many different environments. However, additional considerations are needed for environments where more vegetation is present. Typically, K_s is higher in the vicinity of vegetation. This could likely be addressed by a factor that provides for variation in K_s at plant level, rather than assuming the hydraulic conductivity is equal beneath plants and between plants. Additionally, the I_a value could be adjusted to provide for increased vegetation.

Methods for determining K_{eff} , as opposed to K_s , are still not used consistently in the hydrologic community, even though it is clear that soil is not saturated when runoff is initiated. Currently, K_{eff} is taken as 50 percent of the saturated value, but without any real means to substantiate the accuracy of the effective value. Given the results observed in this study, a more quantitatively based means to estimate K_{eff} is needed, as a simple factor does not explain how it relates to K_s . As previously discussed the method for determining K_{eff} is theoretical. A method by which the wetting front velocity could be determined in-situ would provide a means to establish this value on an individual watershed basis. In particular, the age of a soil surface and the climate of the area have a considerable affect

on hydraulic conductivity. A greater understanding of these effects on the soil parameters is necessary.

The AMC used as an initial condition in a hydrologic model was shown to have a significant effect, not only on the final flowrates, but also on the time to peak for a sub-basin or concentration point. This was shown in the floodwave progression hydrograph figures. Because variations in flowrates and peak times do influence design features for individual flood control facilities as well as flood control systems, further study into the effects of AMC on flooding characteristics in both arid and semi-arid environments is necessary.

APPENDIX 1

FIGURES

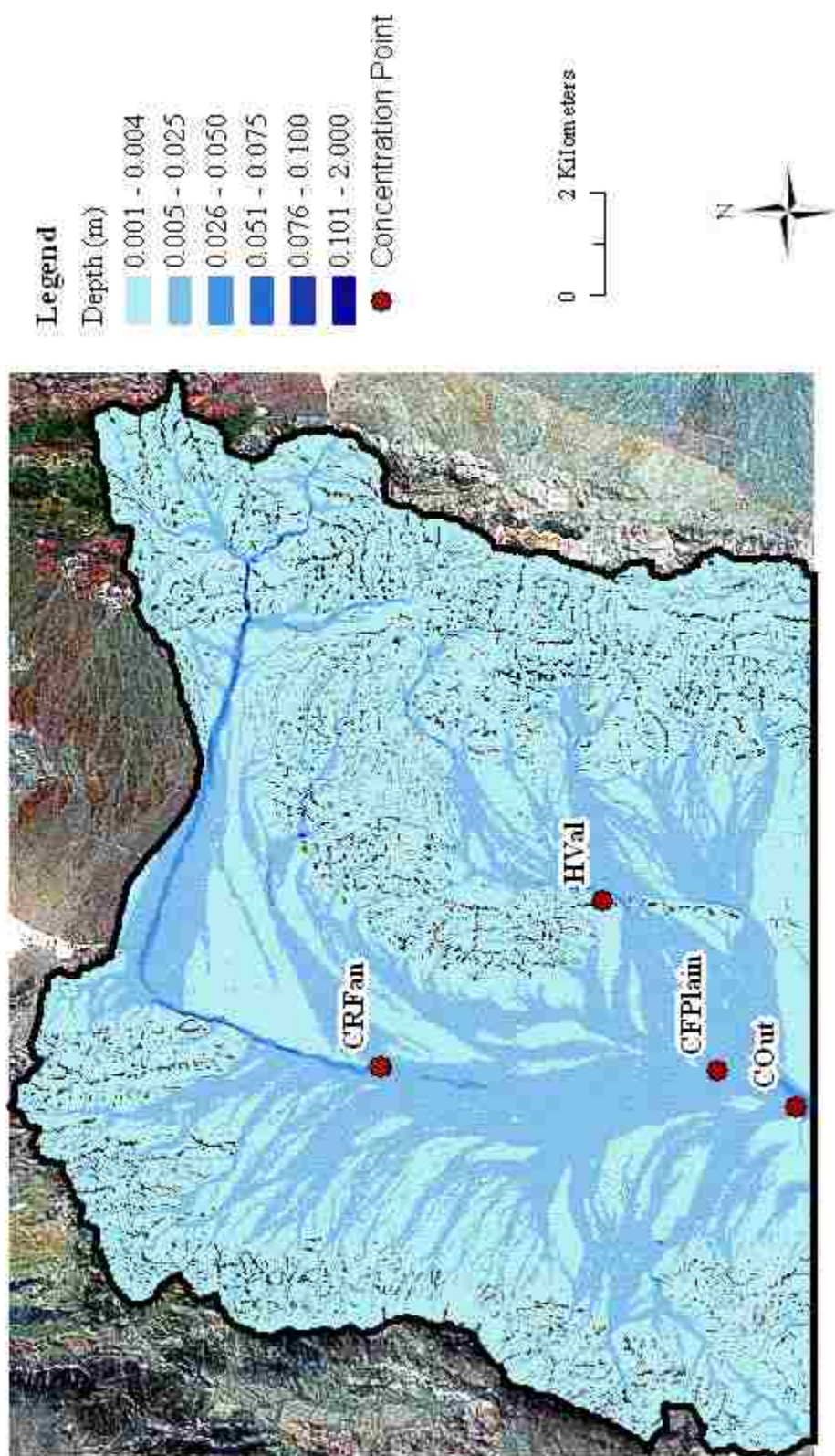


Figure 0-500 D - Maximum depth of runoff for 0-day drying period after saturated conditions followed by event of 500-year frequency

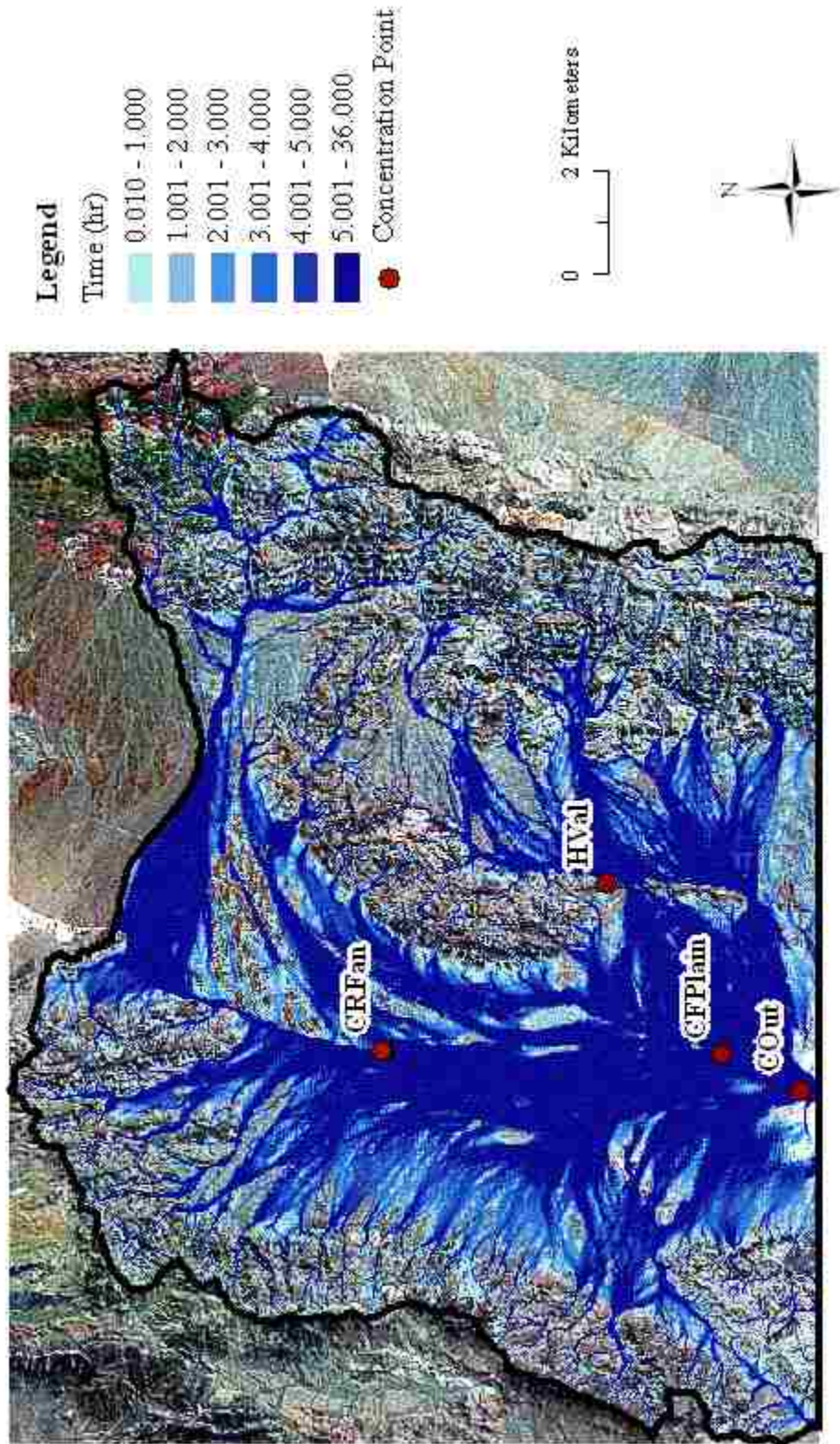


Figure 0-5001 - Duration of inundation of runoff for 0-day drying period after saturated conditions followed by event of 500-year frequency

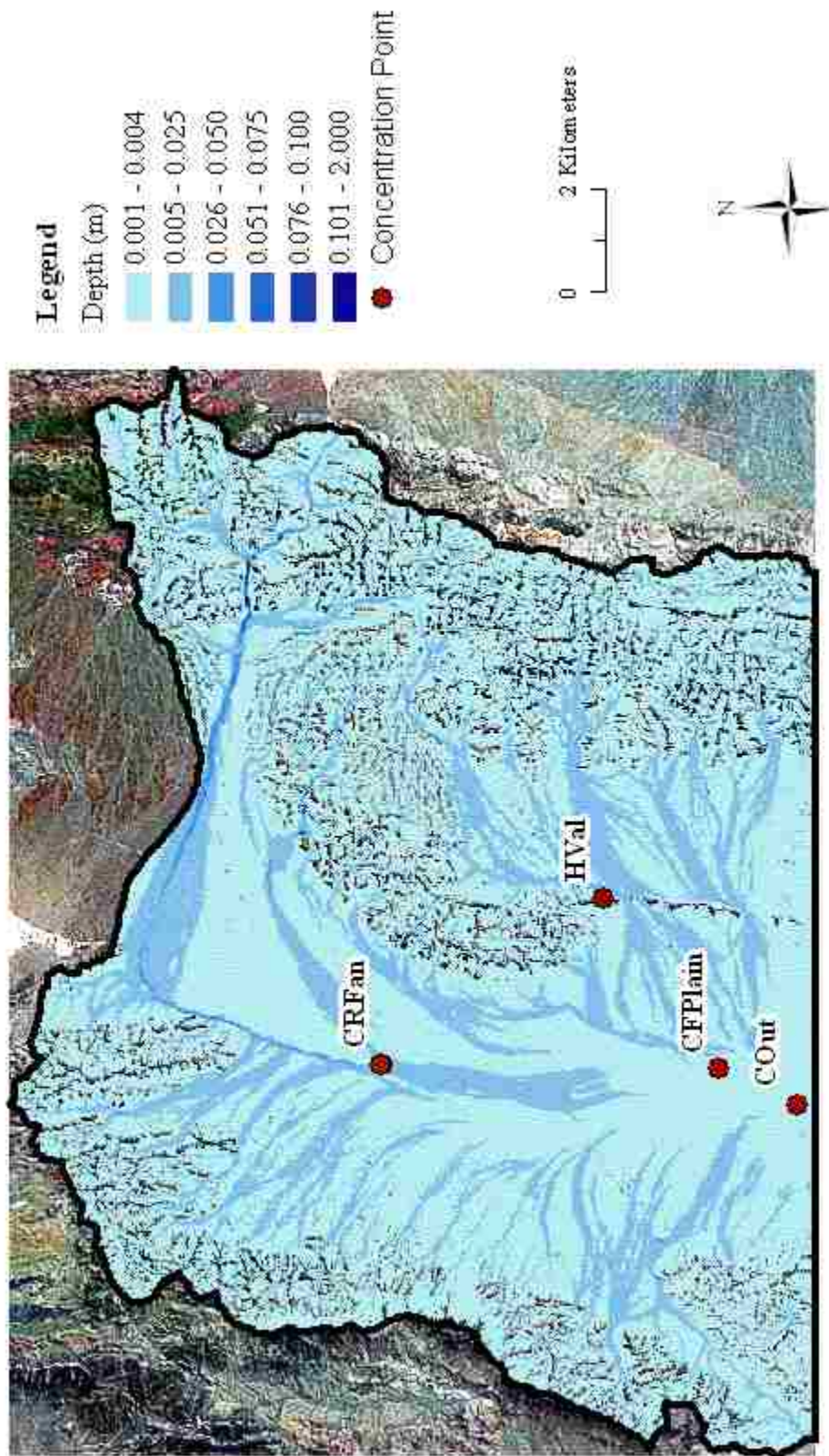


Figure 0-100 D - Maximum depth of runoff for 0-day drying period after saturated conditions followed by event of 100-year frequency

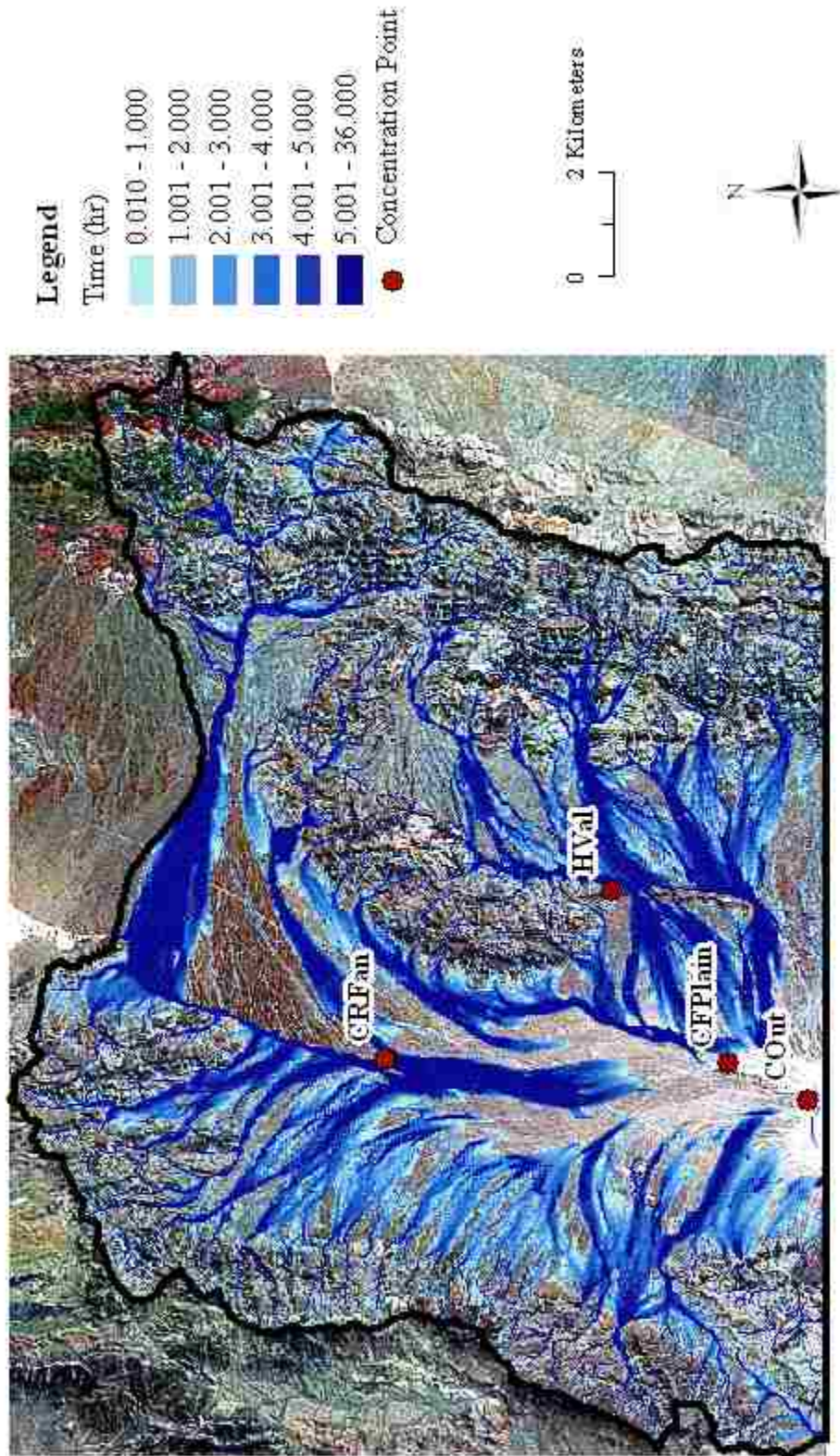


Figure 0-1001 - Duration of inundation of runoff for 0-day drying period after saturated conditions followed by event of 100-year frequency

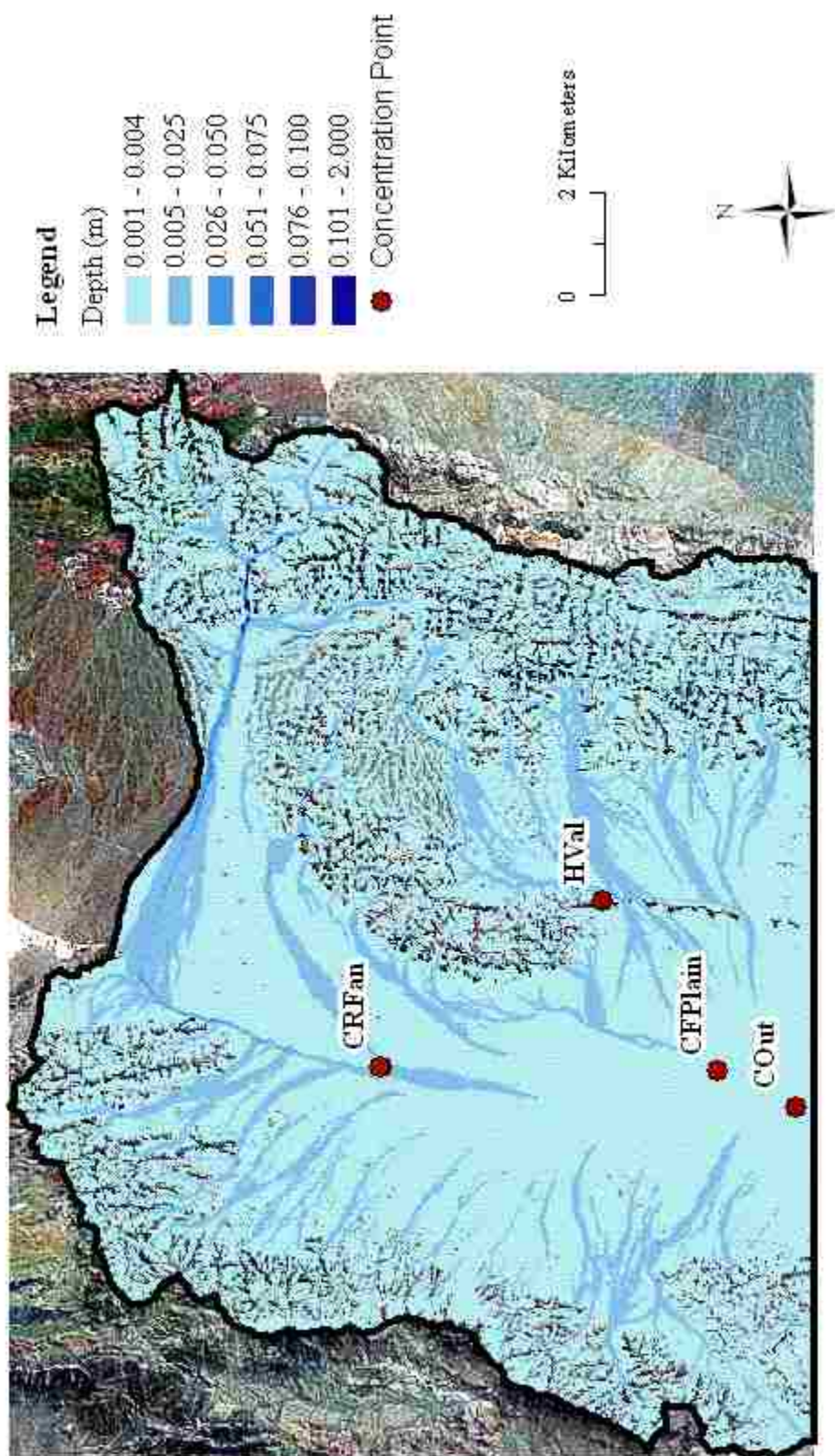


Figure 0-50D - Maximum depth of runoff for 0-day drying period after saturated conditions followed by event of 50-year frequency

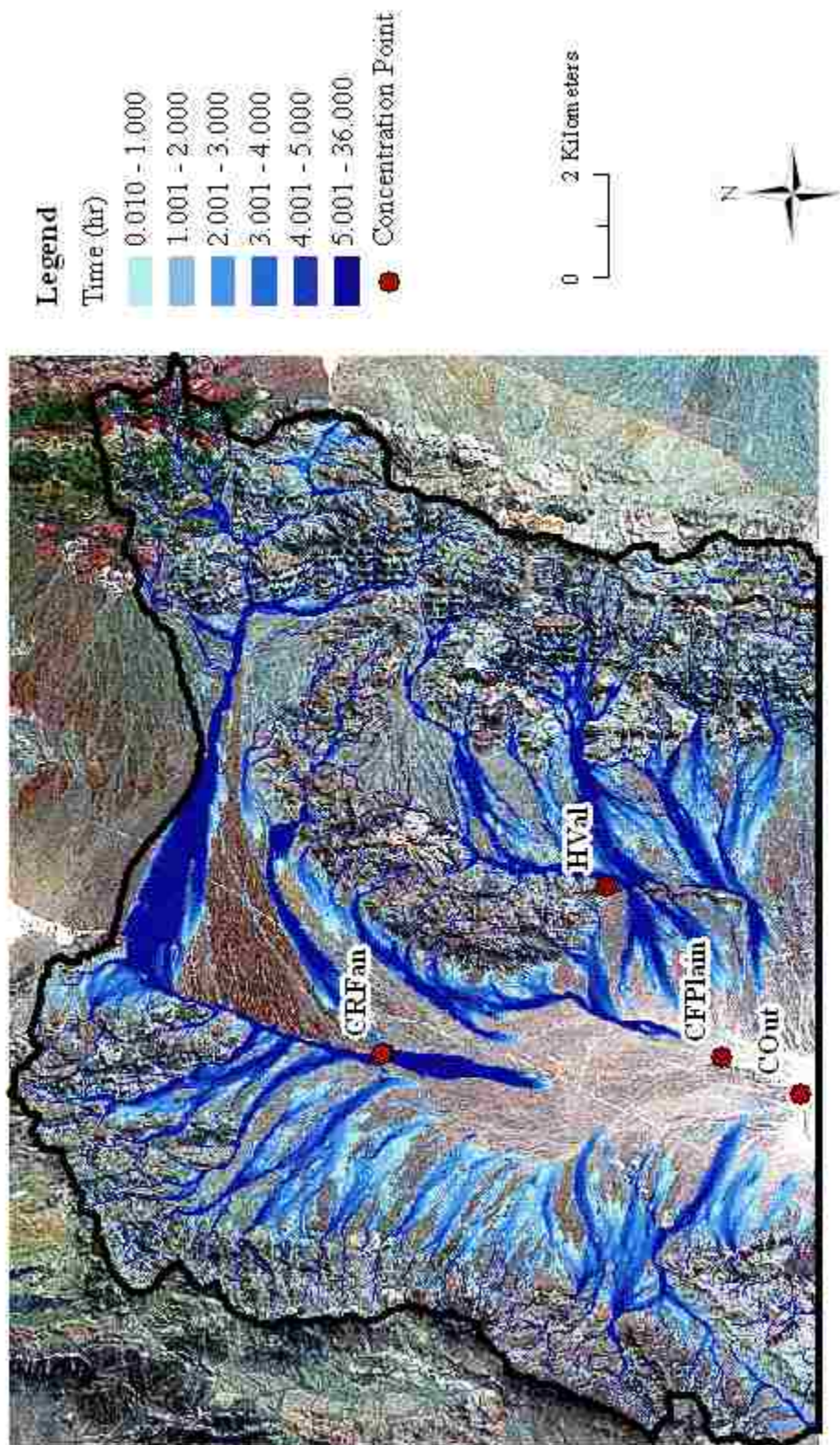


Figure 0-501 - Duration of inundation of runoff for 0-day drying period after saturated conditions followed by event of 50-year frequency.

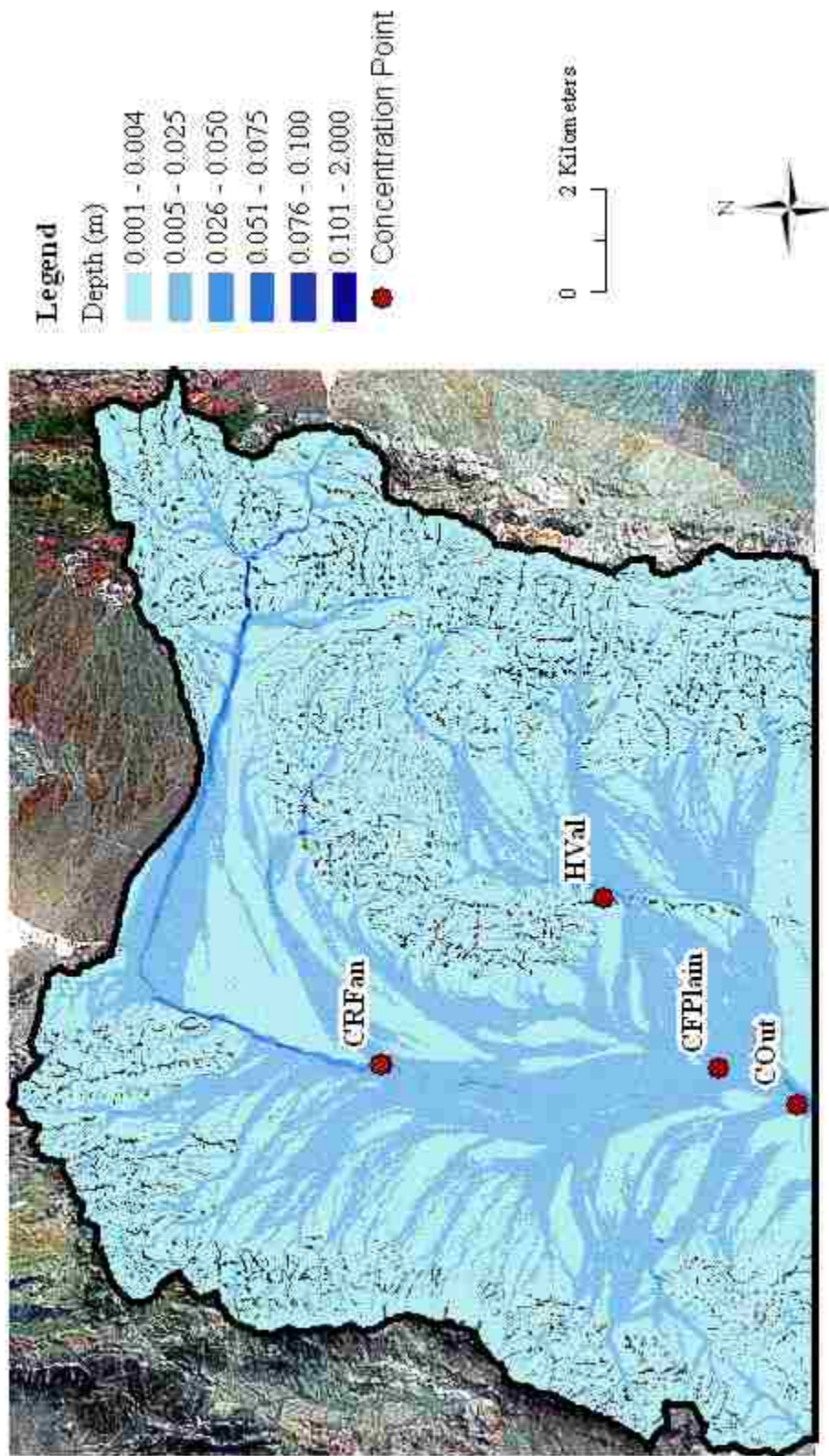


Figure 1 -500 D - Maximum depth of runoff for 1-day drying period after saturated conditions followed by event of 500-year frequency

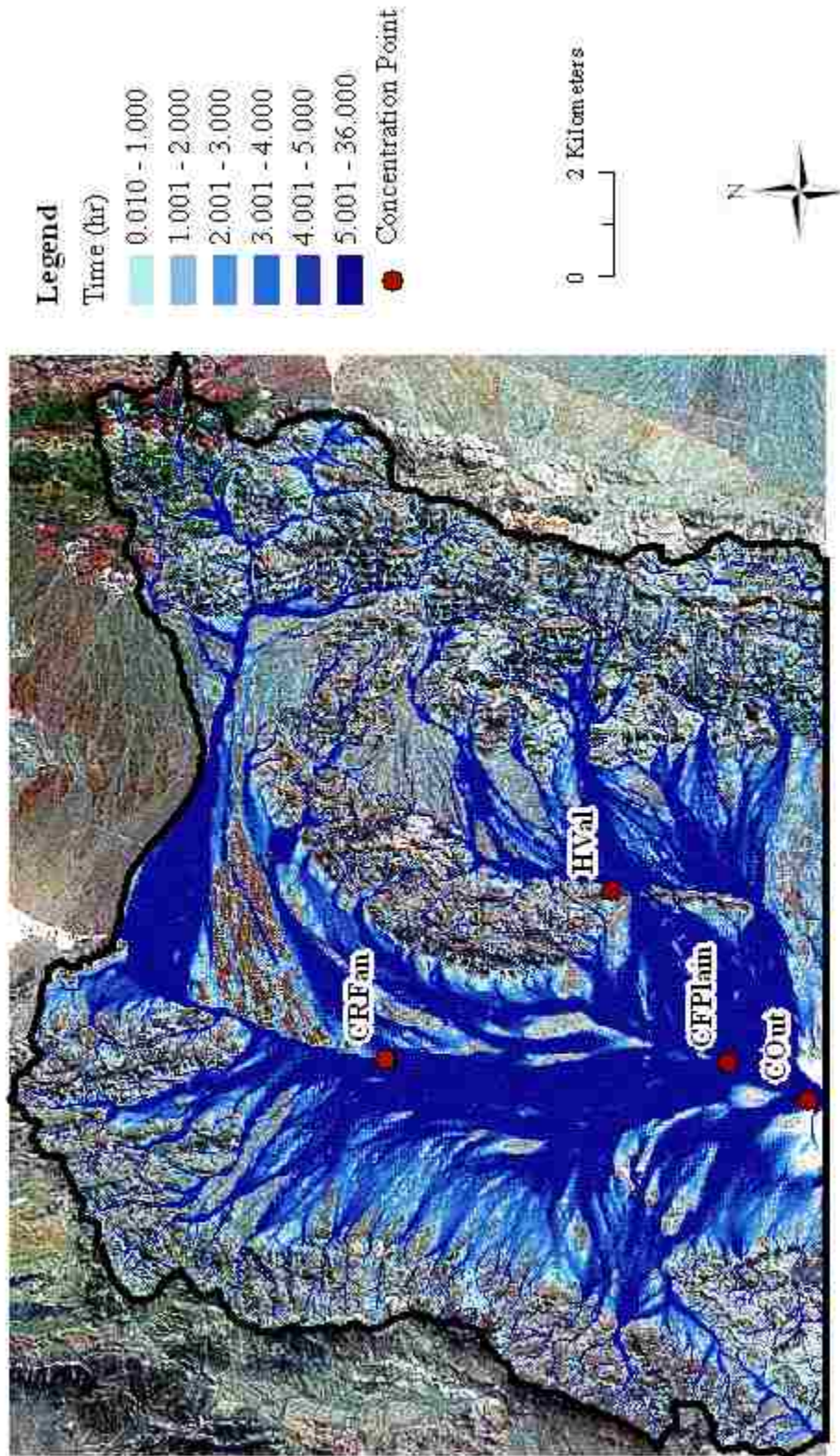


Figure 1-5001 - Duration of inundation of runoff for 1-day drying period after saturated conditions followed by event of 500-year frequency

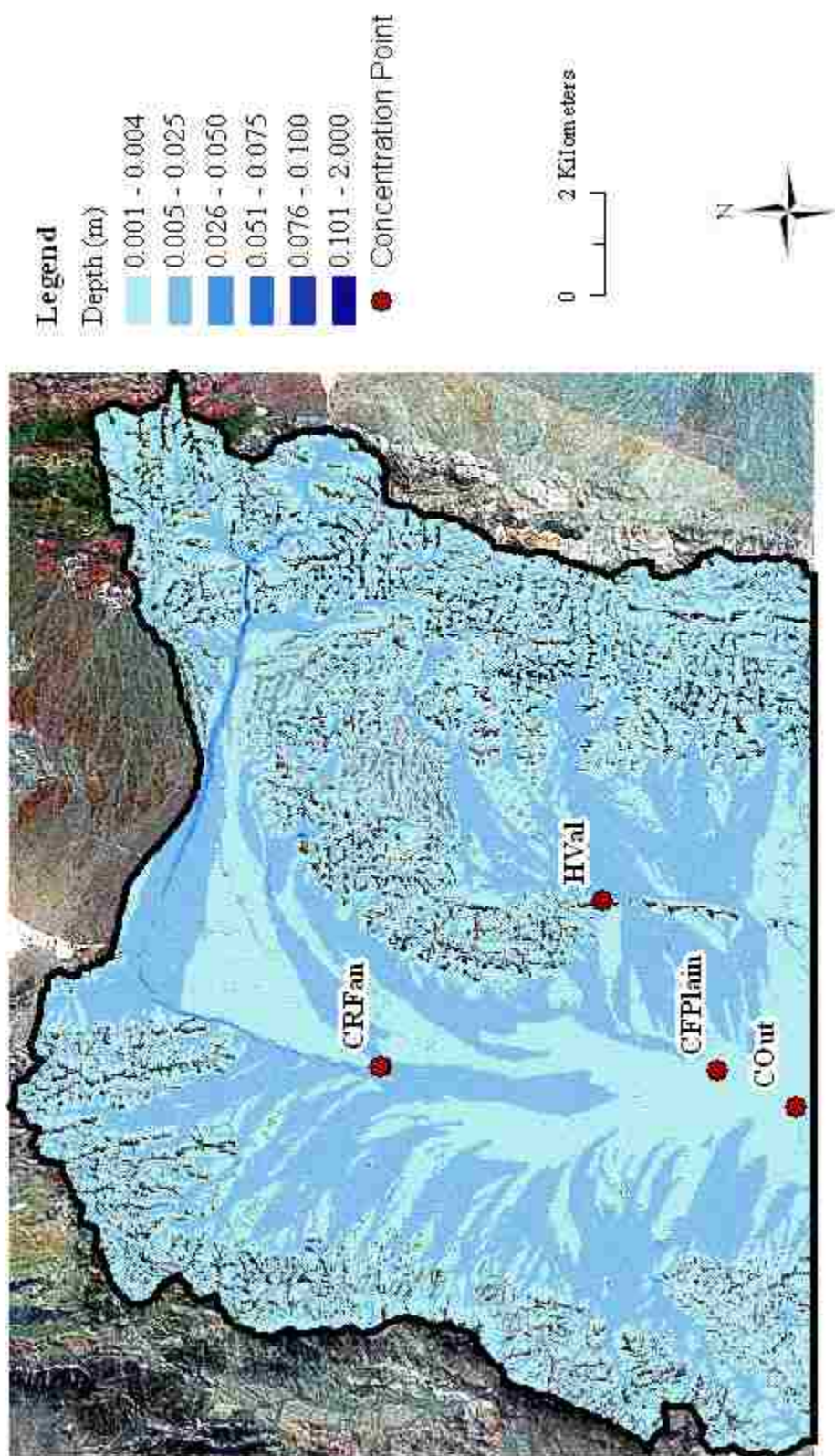


Figure 1-100 D - Maximum depth of runoff for 1-day drying period after saturated conditions followed by event of 100-year frequency

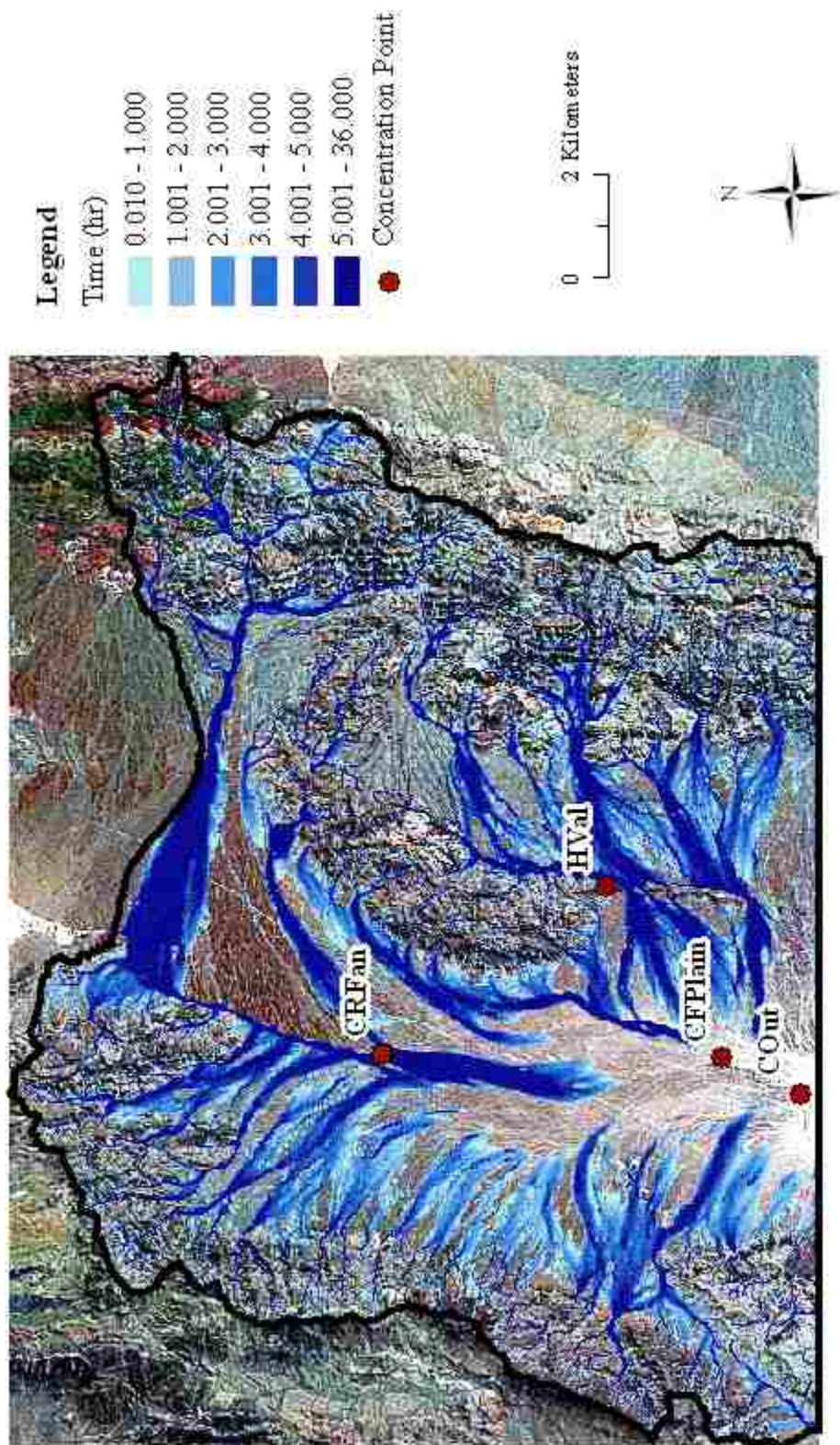


Figure 1-1001 - Duration of inundation of runoff for 1-day drying period after saturated conditions followed by event of 100-year frequency

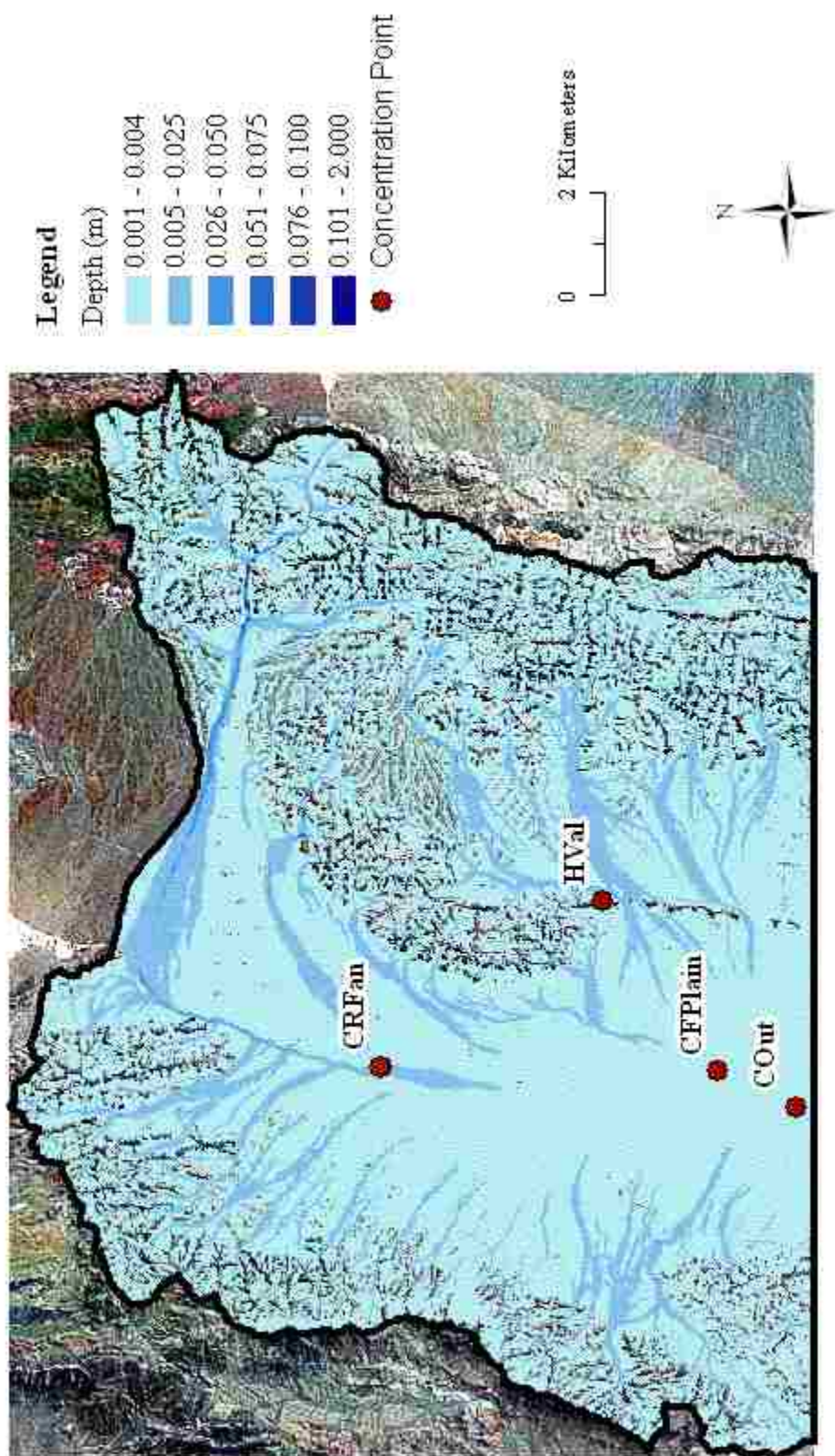


Figure 1 -50D - Maximum depth of runoff for 1-day drying period after saturated conditions followed by event of 50-year frequency

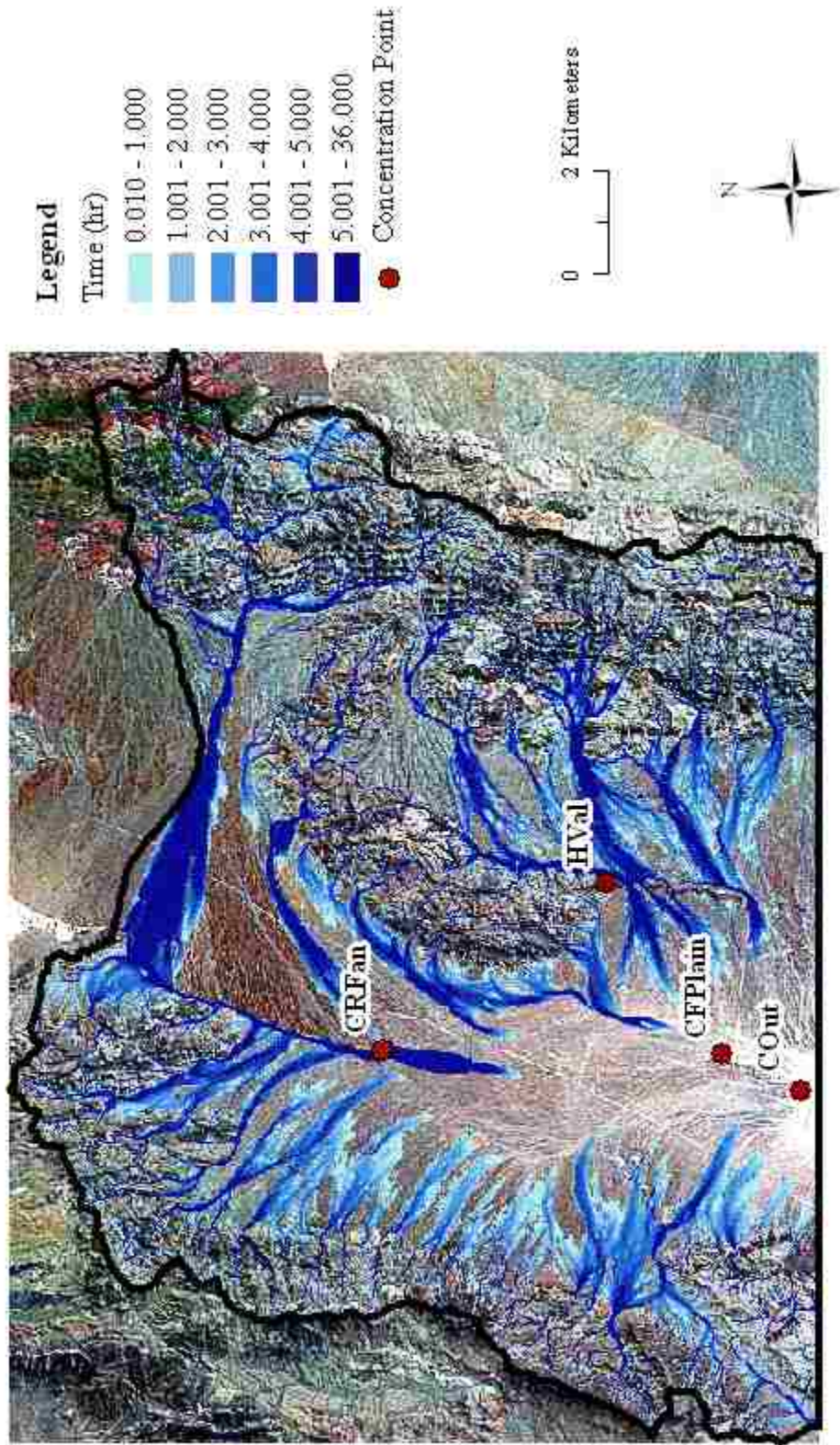


Figure 1-501 - Duration of inundation of runoff for 1-day drying period after saturated conditions followed by event of 50-year frequency

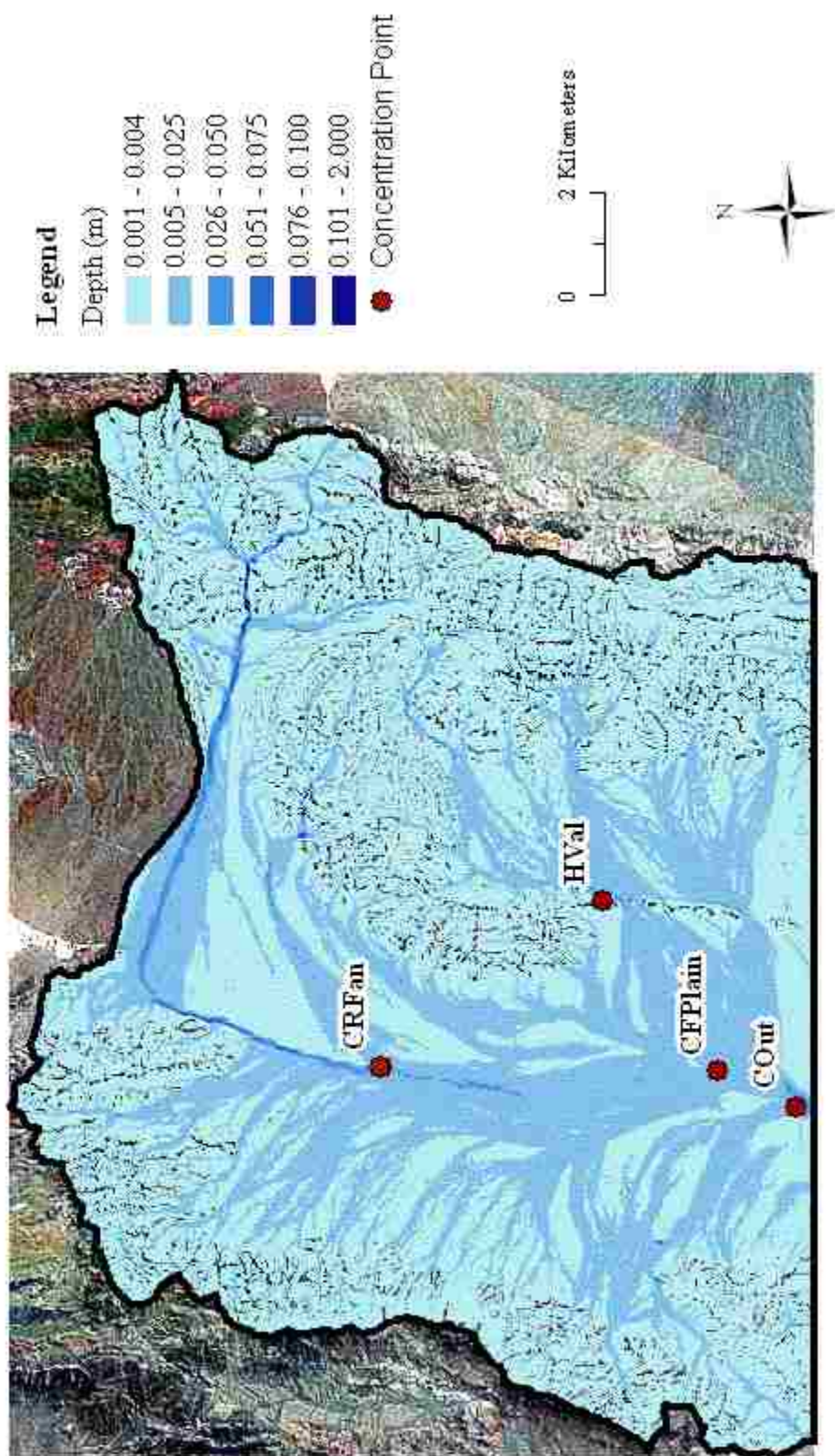


Figure 5-500 D - Maximum depth of runoff for 5-day drying period after saturated conditions followed by event of 500-year frequency

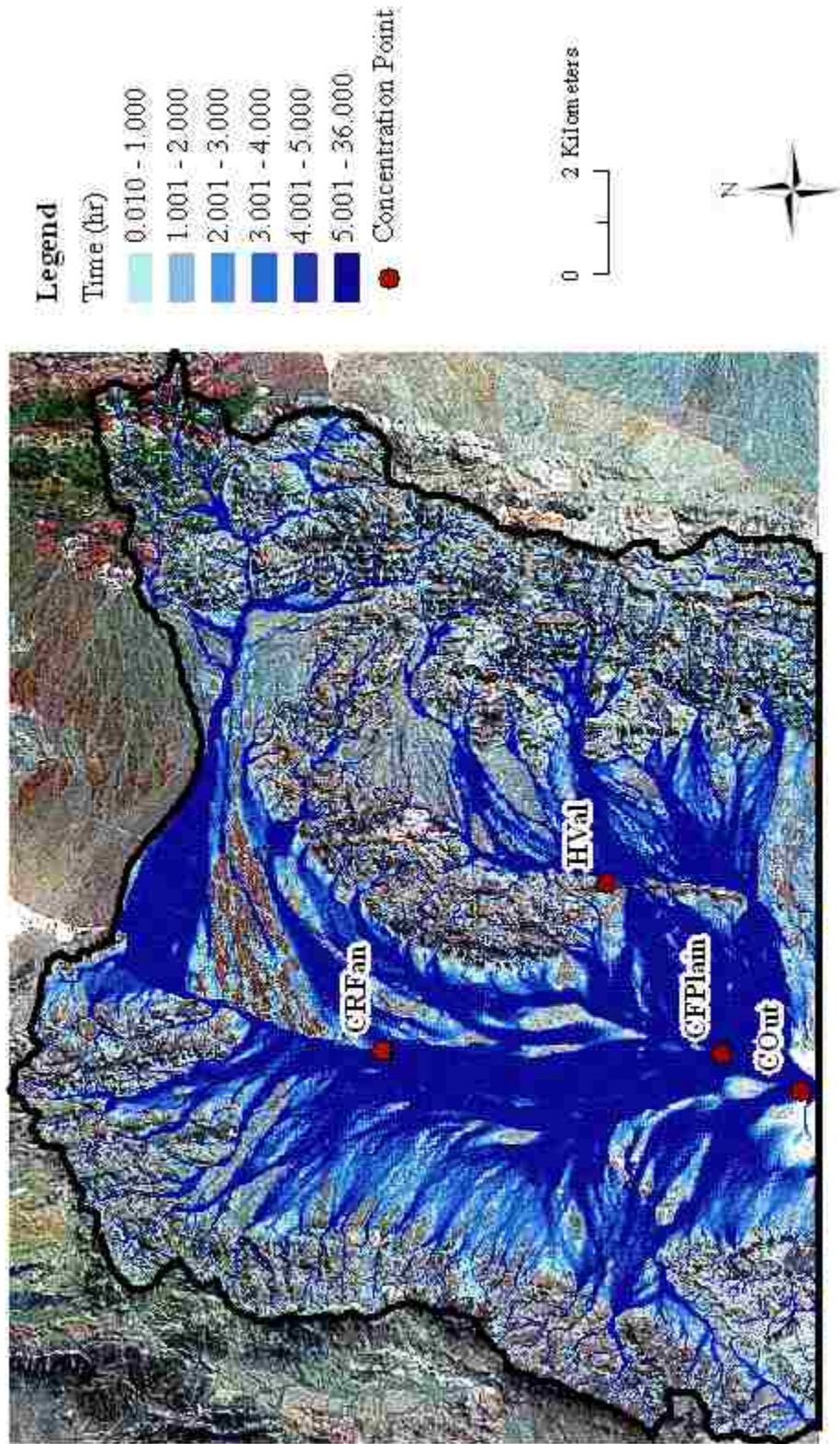


Figure 5-5001 - Duration of inundation of runoff for 5-day drying period after saturated conditions followed by event of 500-year frequency

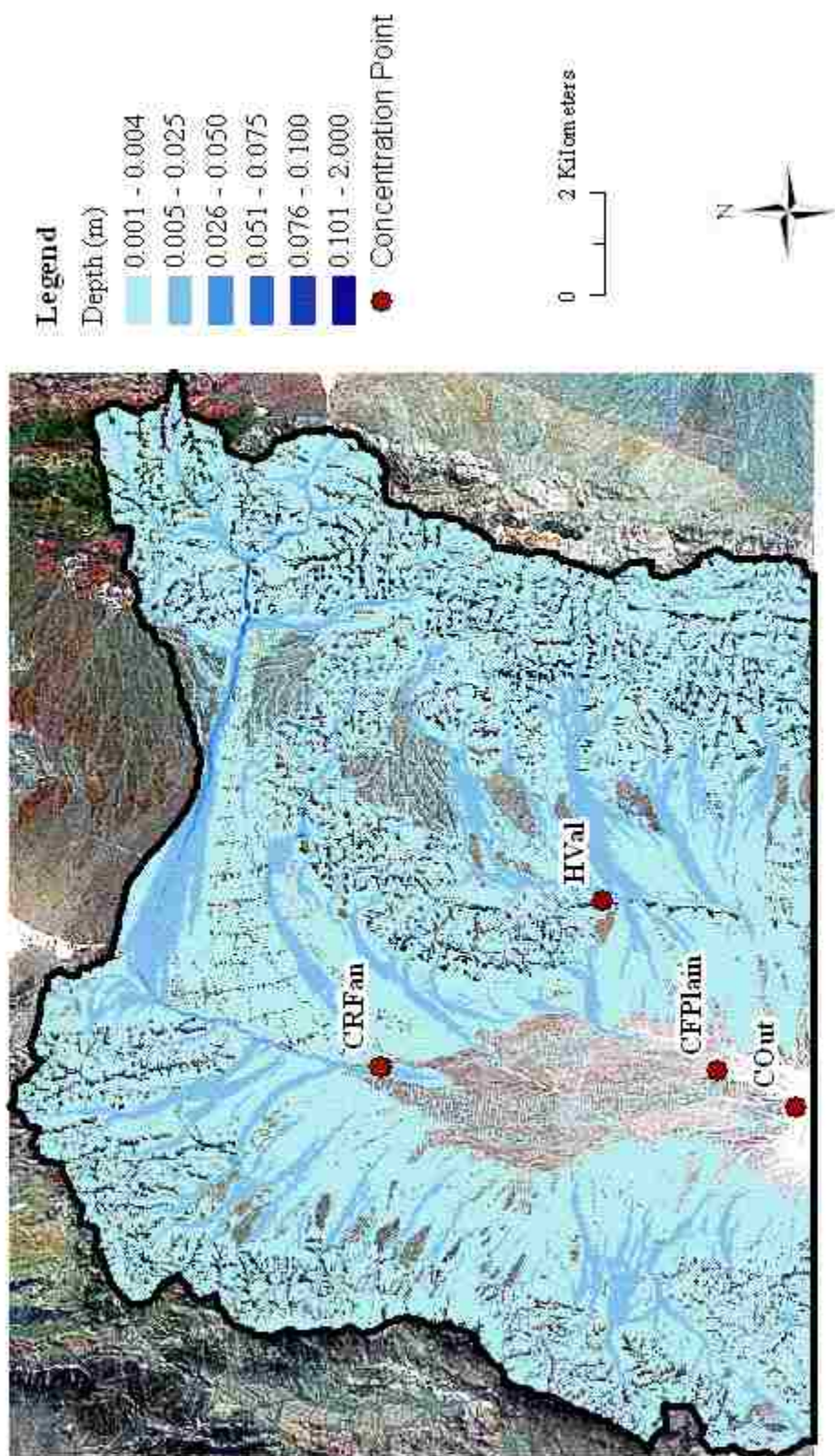


Figure 5-100 D - Maximum depth of runoff for 5-day drying period after saturated conditions followed by event of 100-year frequency

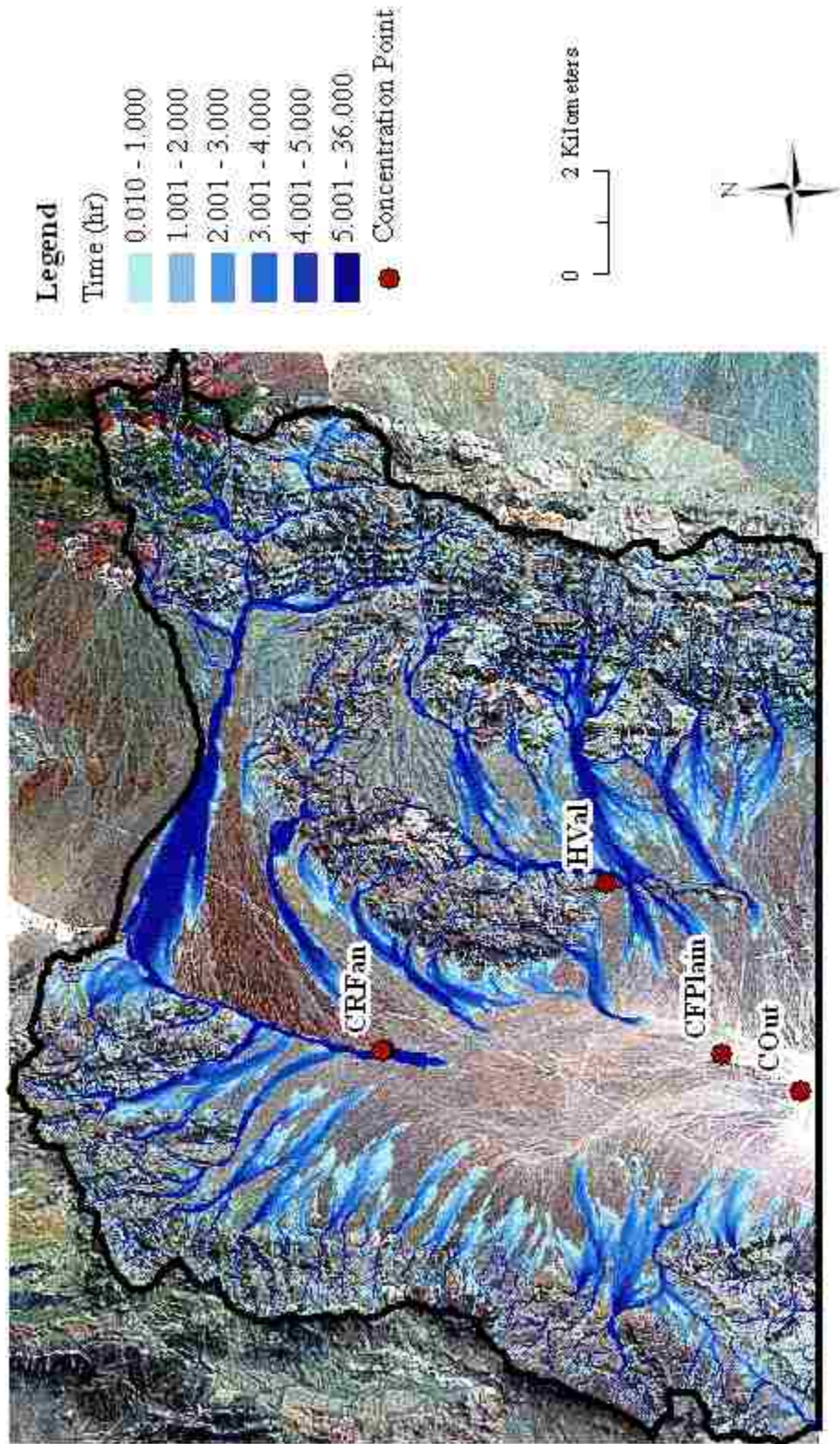


Figure 5-1001 - Duration of inundation of runoff for 5-day drying period after saturated conditions followed by event of 100-year frequency

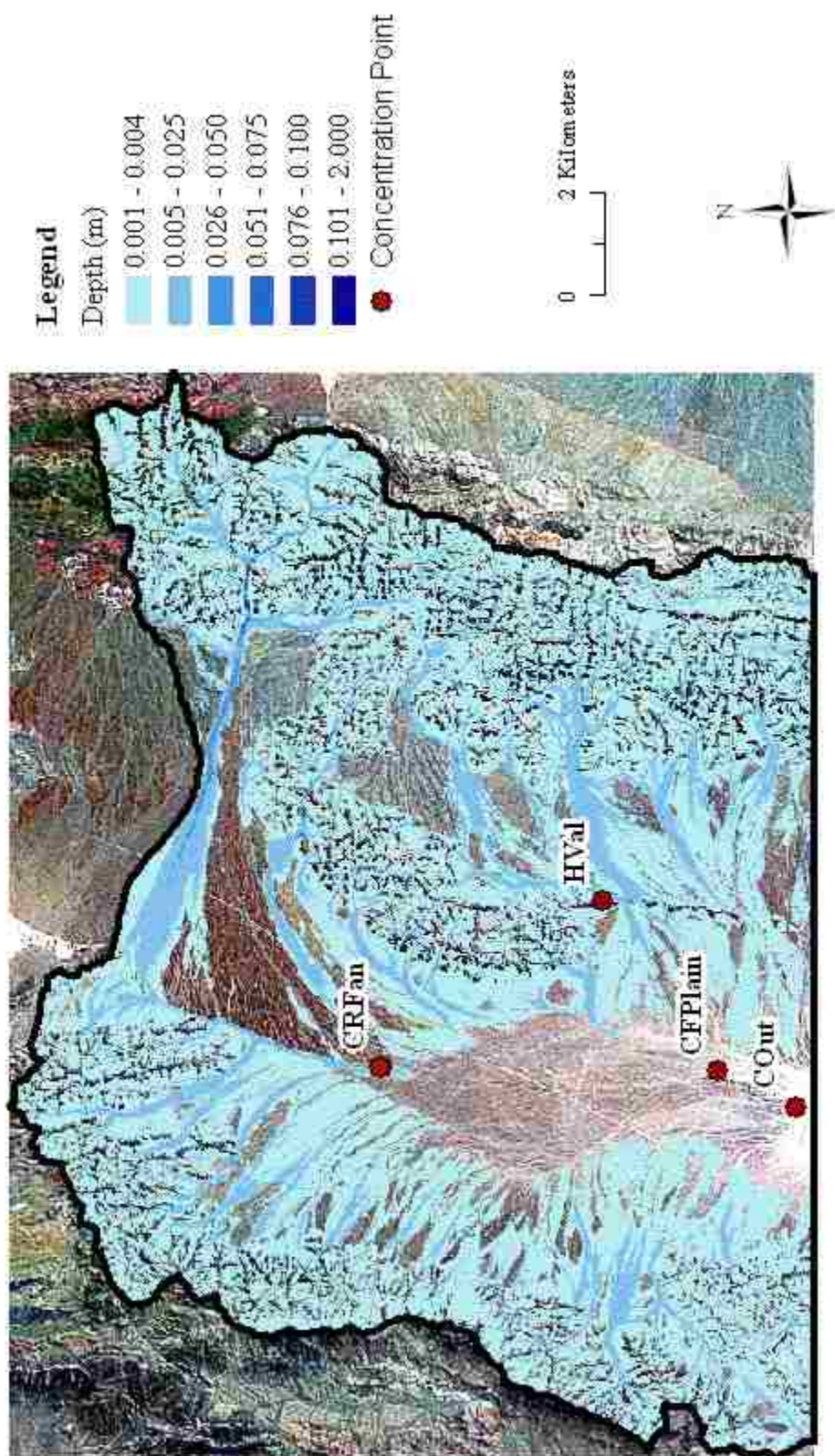


Figure 5-50D - Maximum depth of runoff for 5-day drying period after saturated conditions followed by event of 50-year frequency

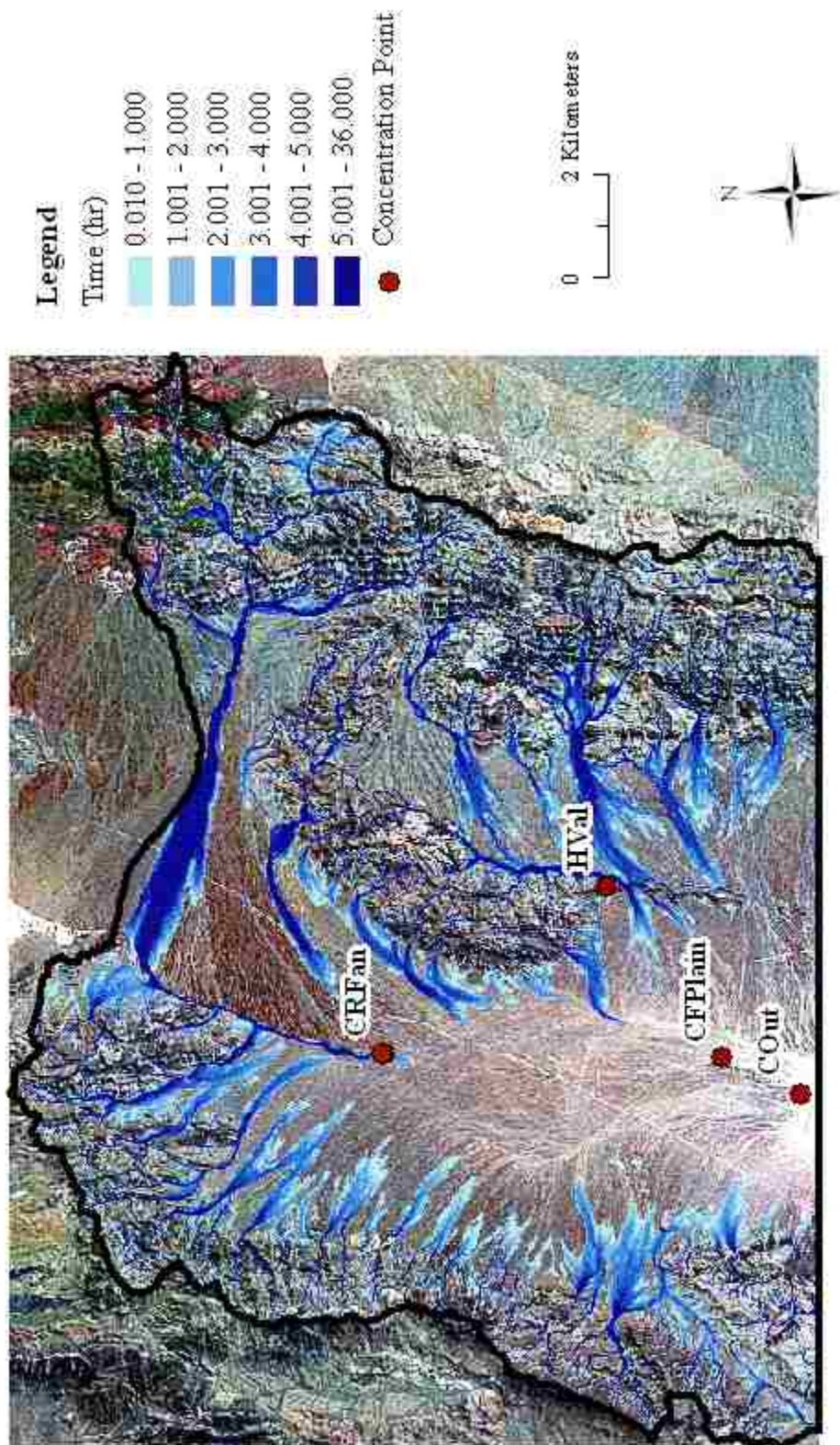
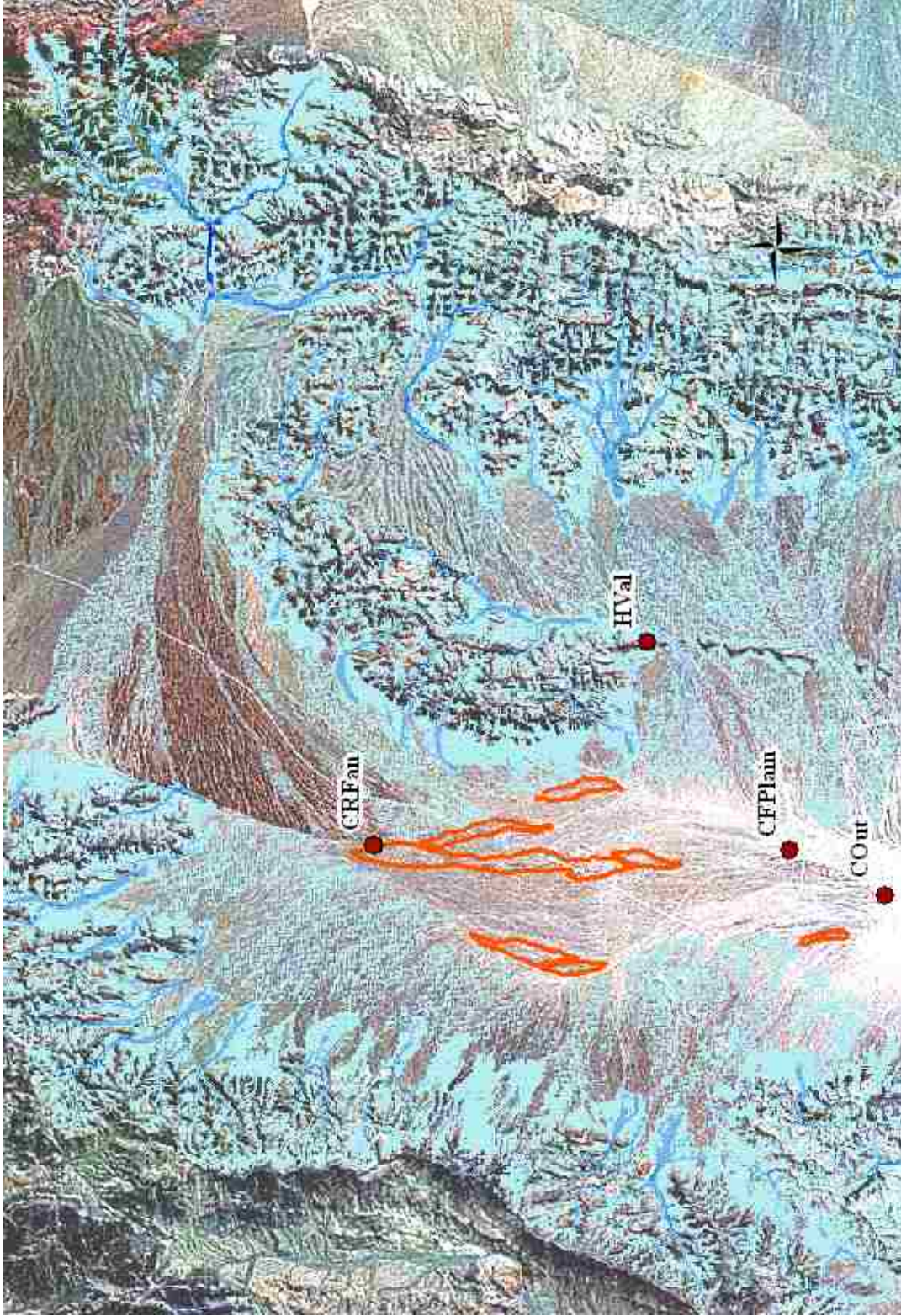
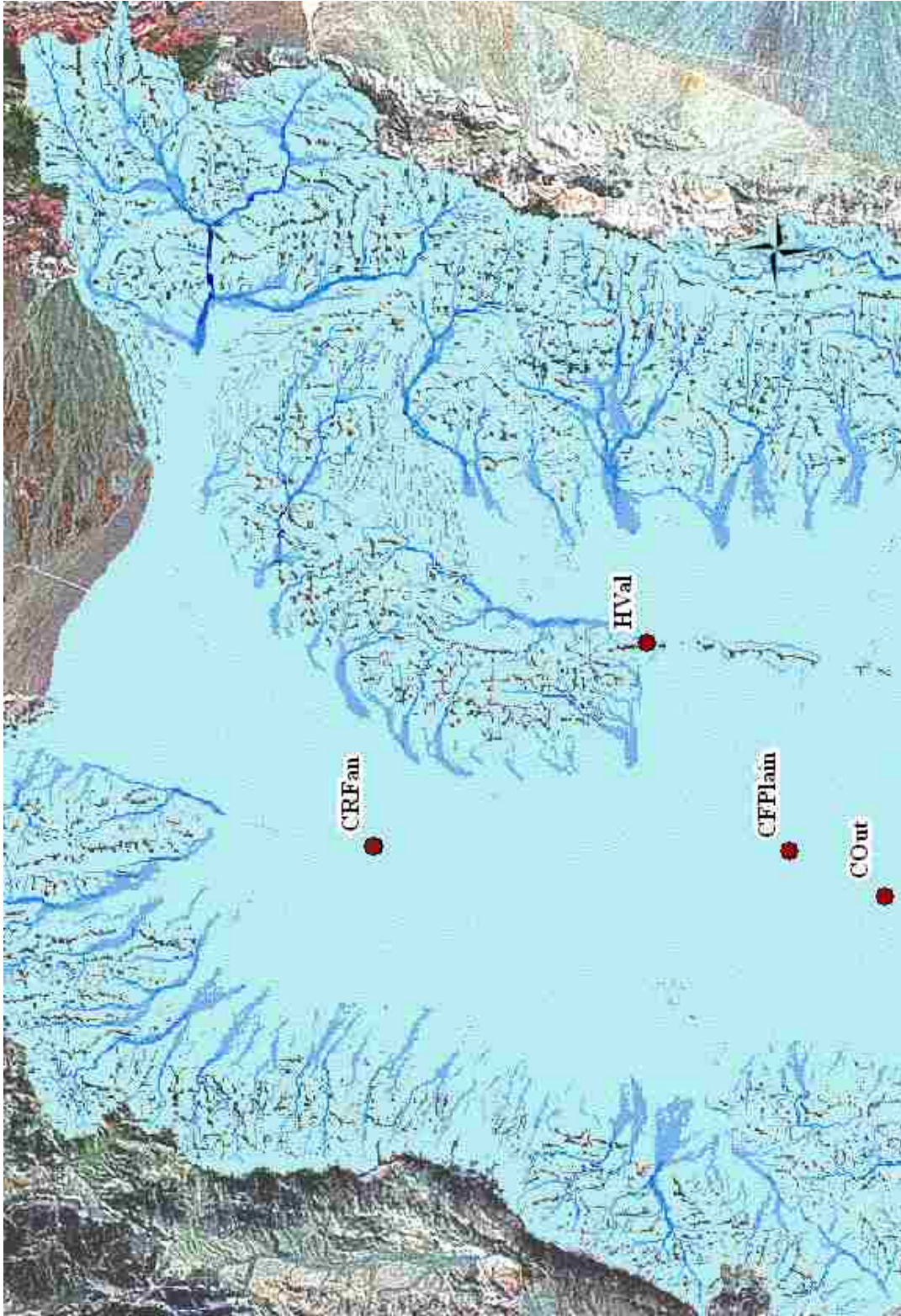


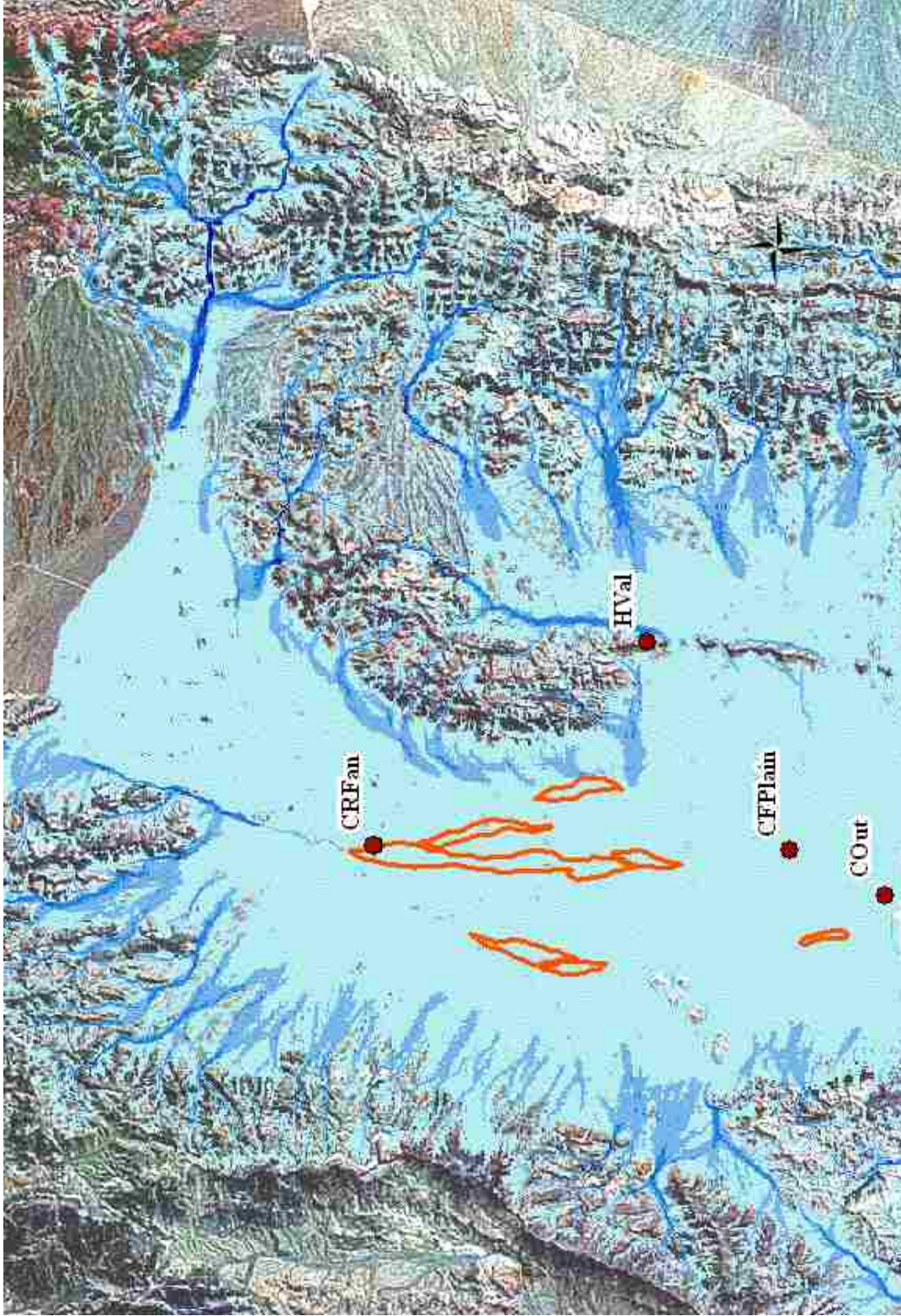
Figure 5-501 - Duration of inundation of runoff for 5-day drying period after saturated conditions followed by event of 50-year frequency.



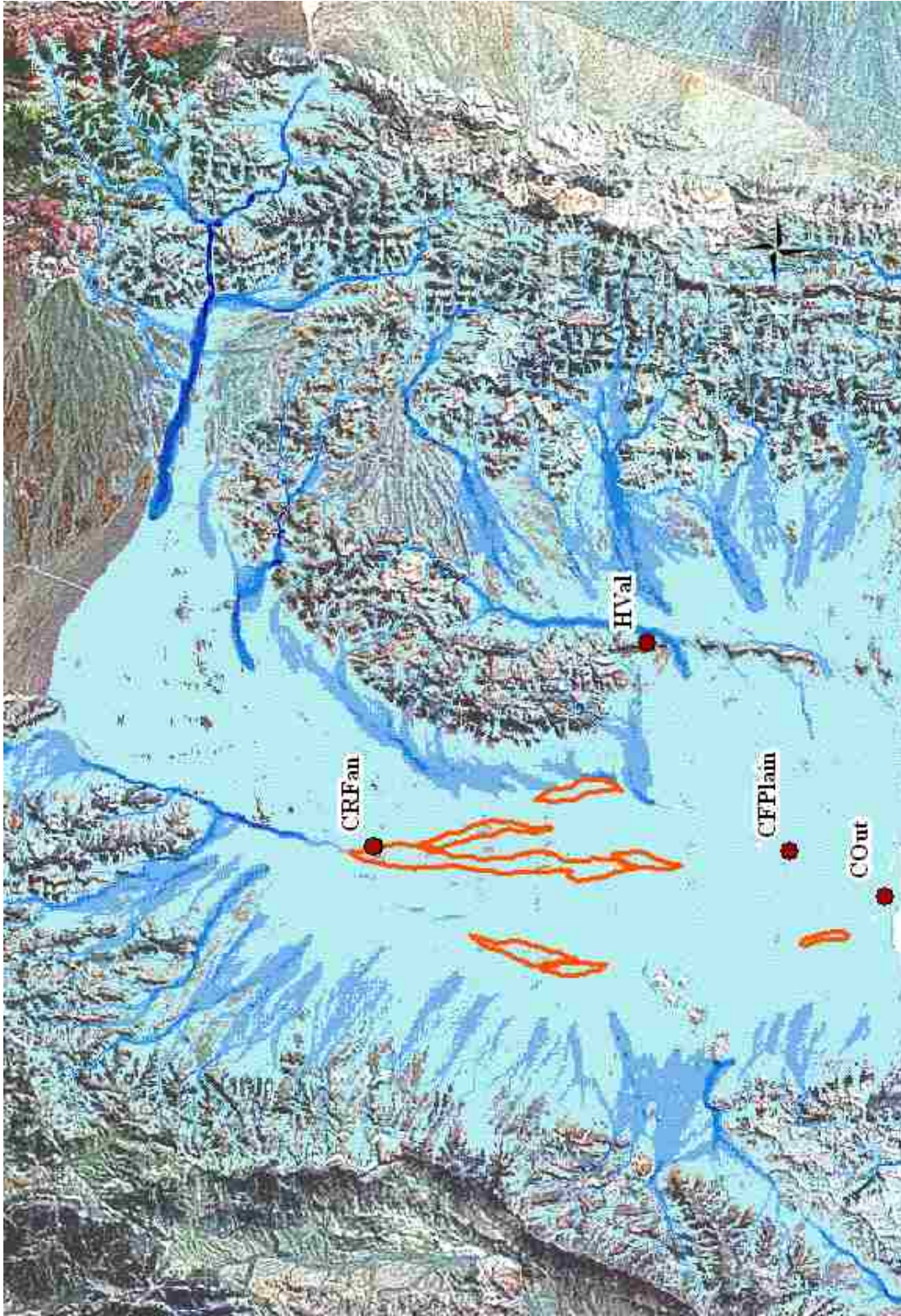
500-Year Event 1-Day Dry Time Floodwave Progression 3.0 Hours



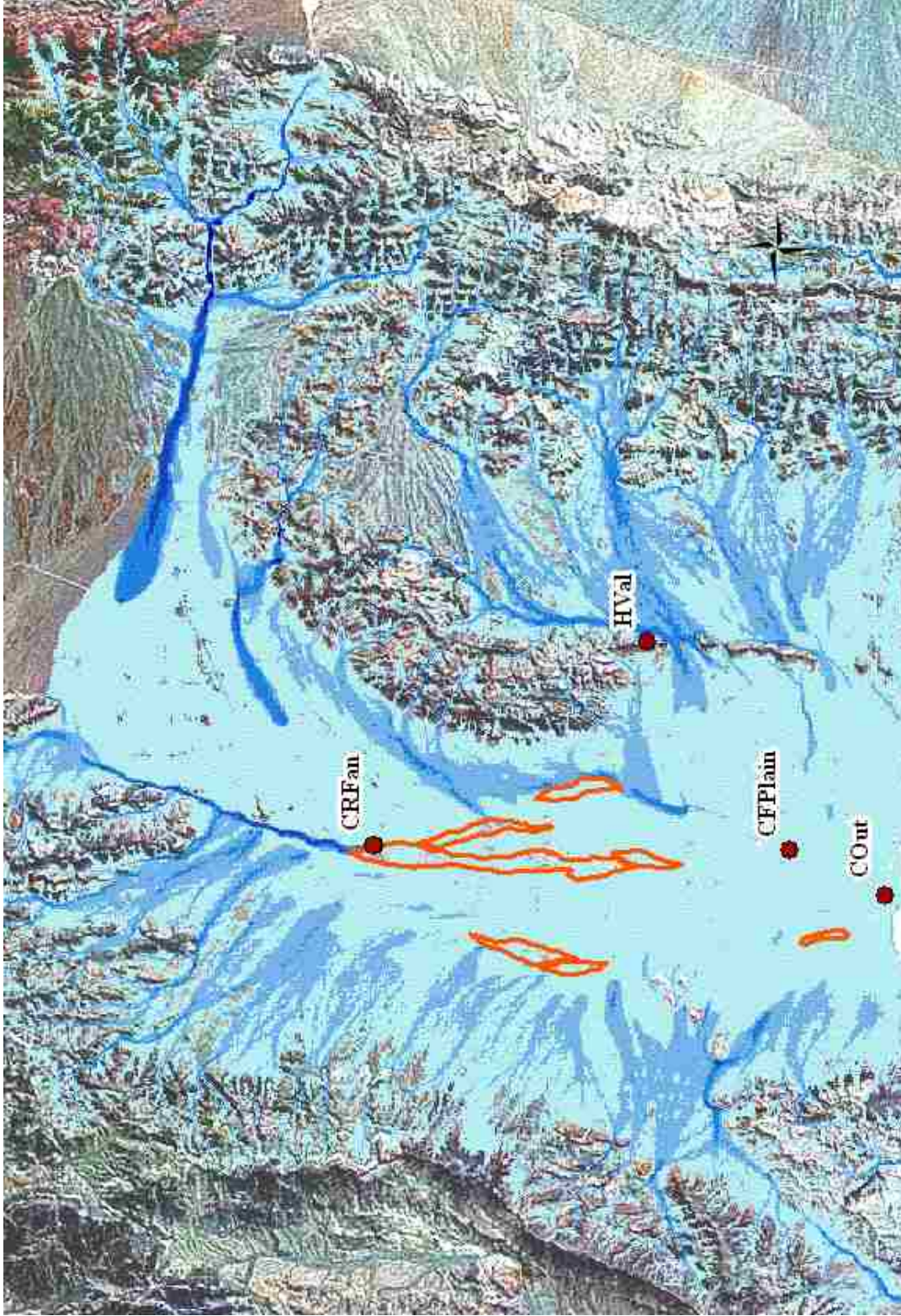
500-Year Event 1-Day Dry Time Floodwave Progression 3.5 Hours



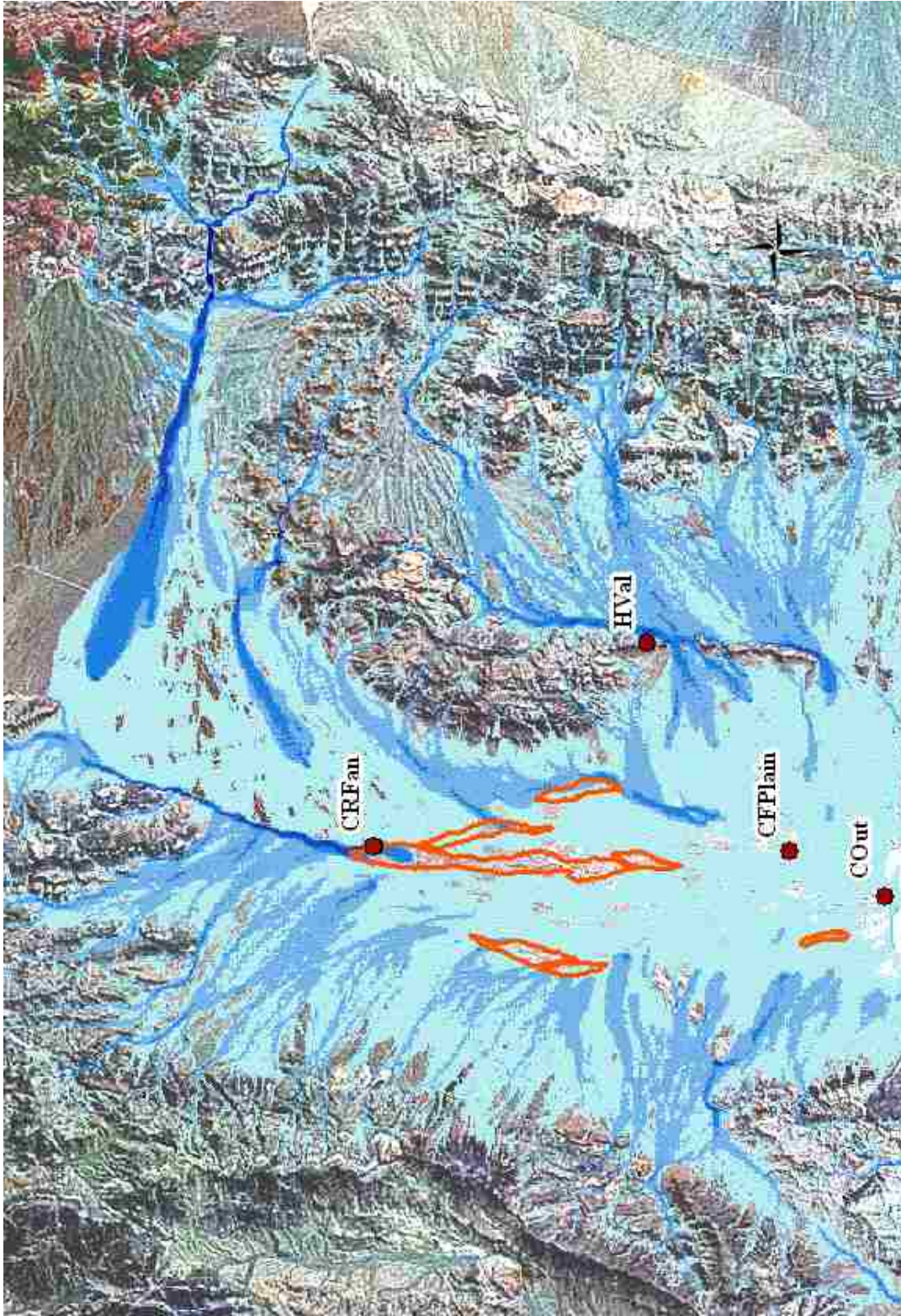
500-Year Event 1-Day Dry Time Floodwave Progression 4.0 Hours



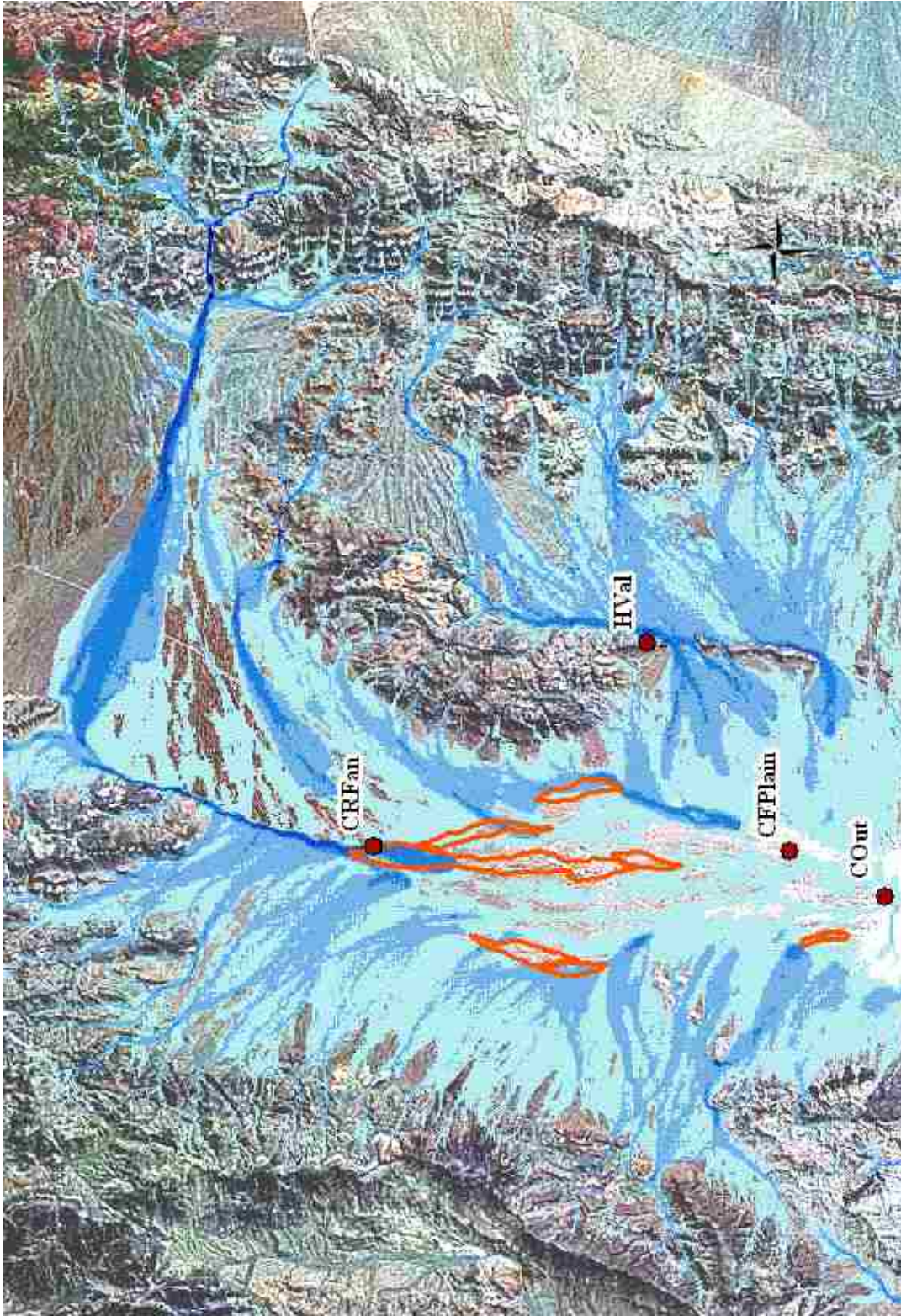
500-Year Event 1-Day Dry Time Floodwave Progression 4.5 Hours



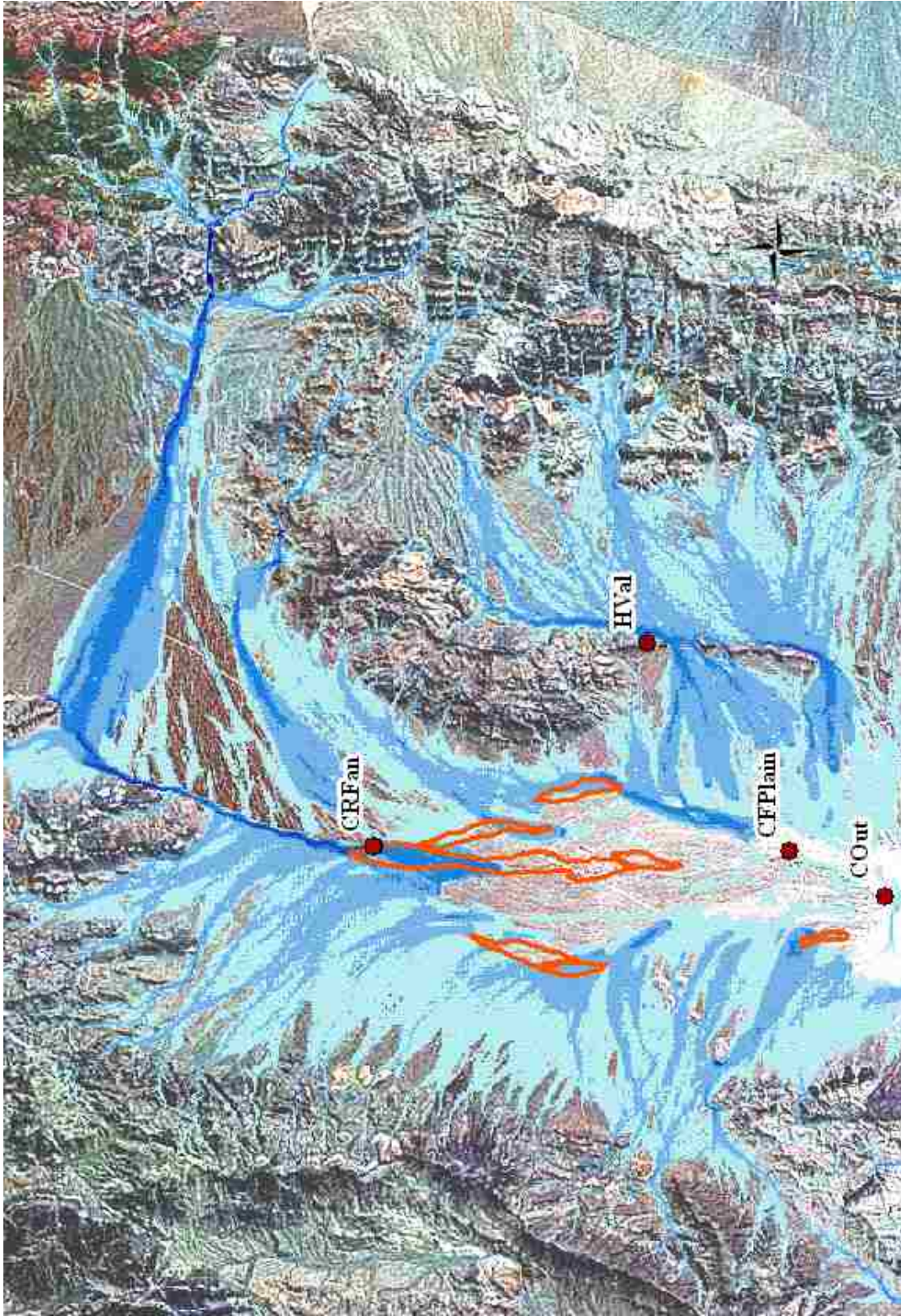
500-Year Event 1-Day Dry Time Floodwave Progression 5.0 Hours



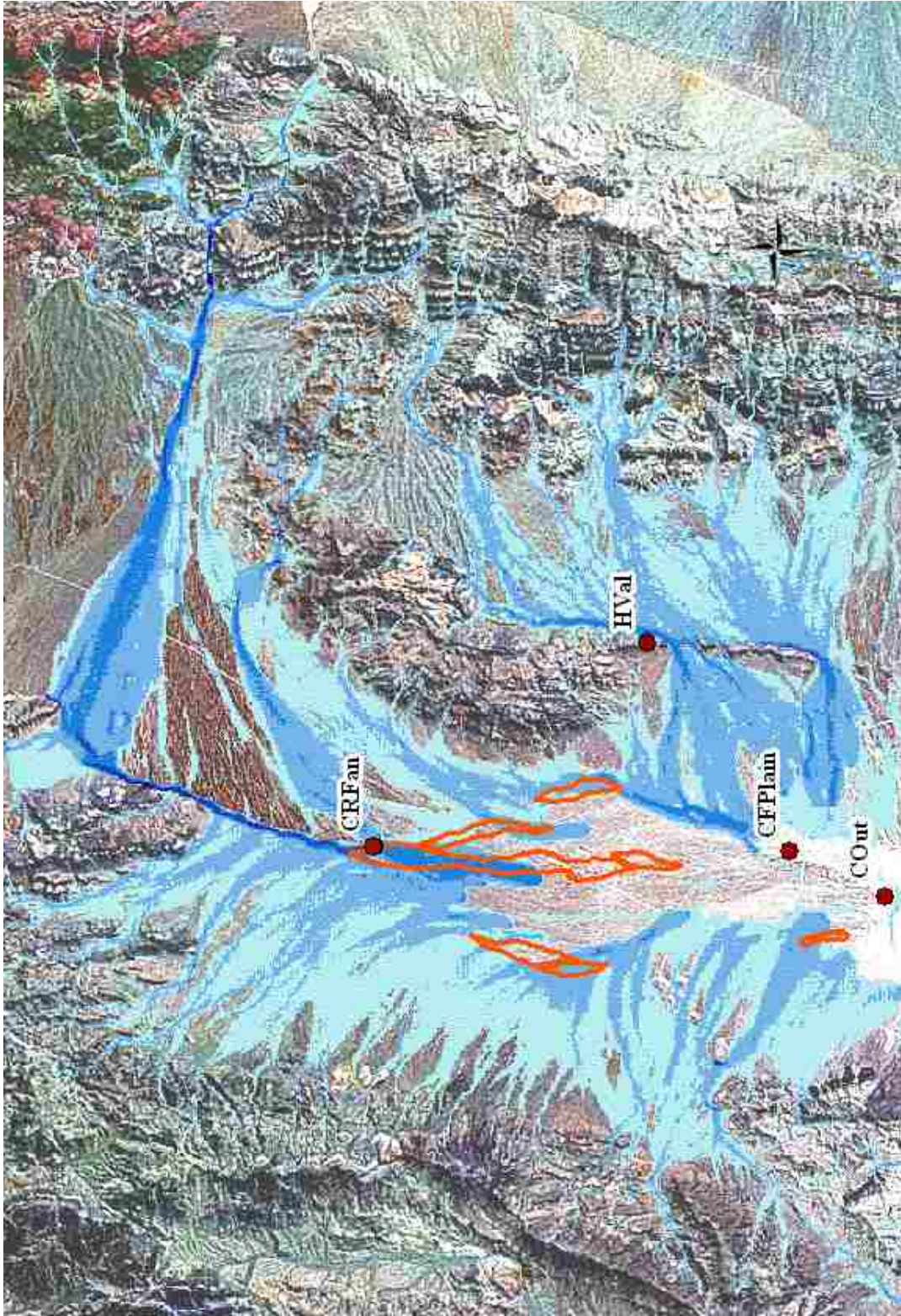
500-Year Event 1-Day Dry Time Floodwave Progression 5.5 Hours



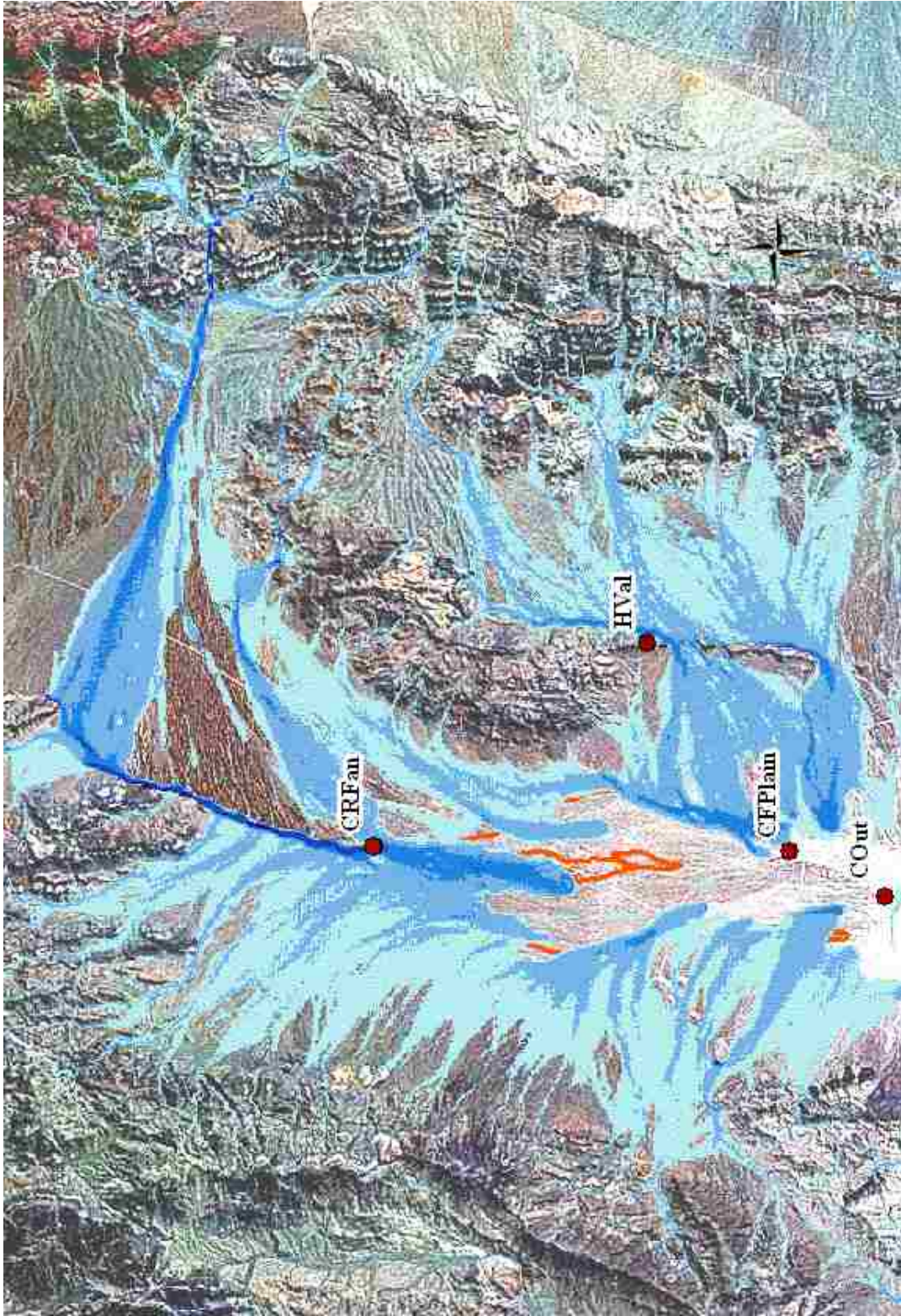
500-Year Event 1-Day Dry Time Floodwave Progression 6.0 Hours



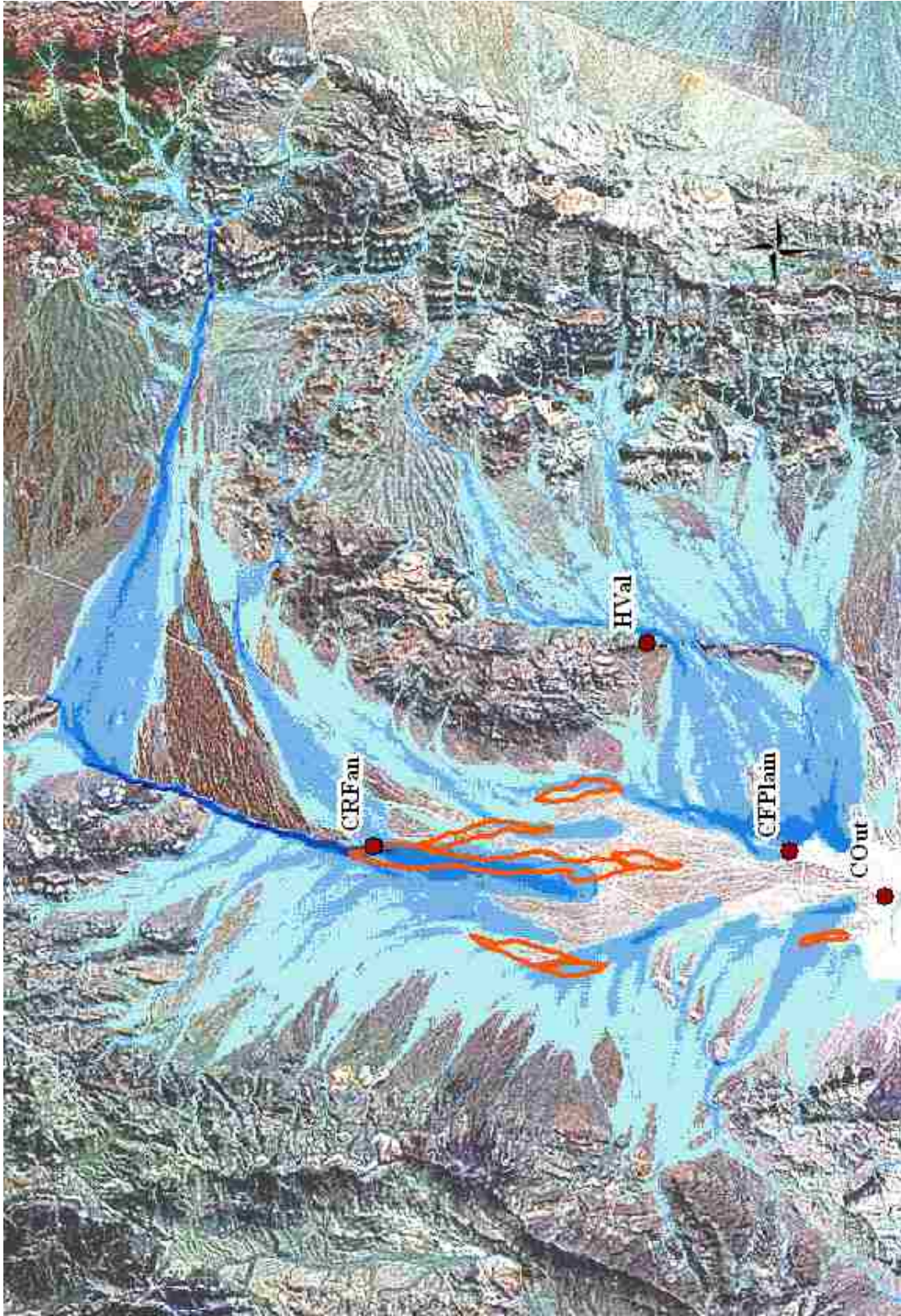
500-Year Event 1-Day Dry Time Floodwave Progression 6.5 Hours



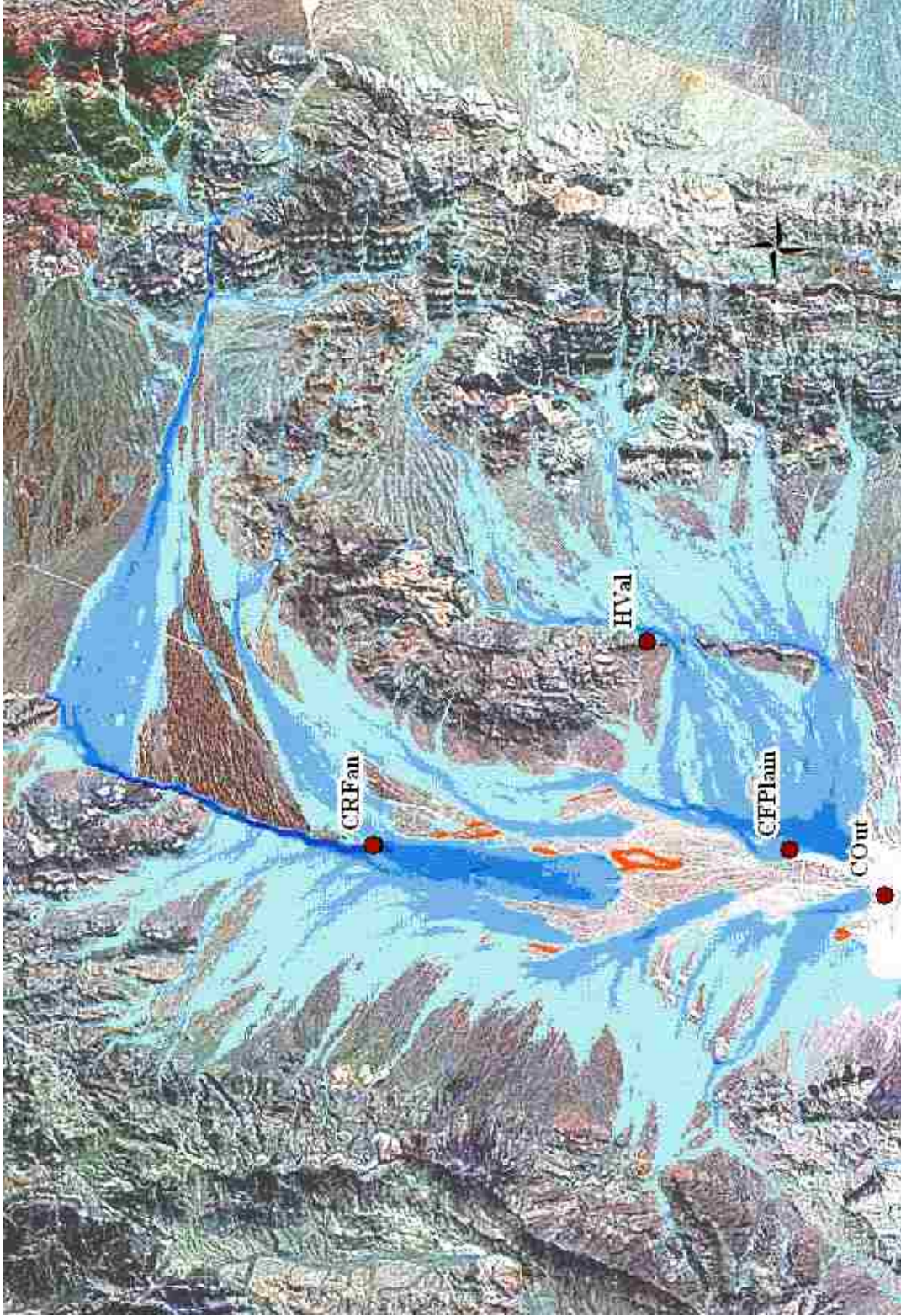
500-Year Event 1-Day Dry Time Floodwave Progression 7.0 Hours



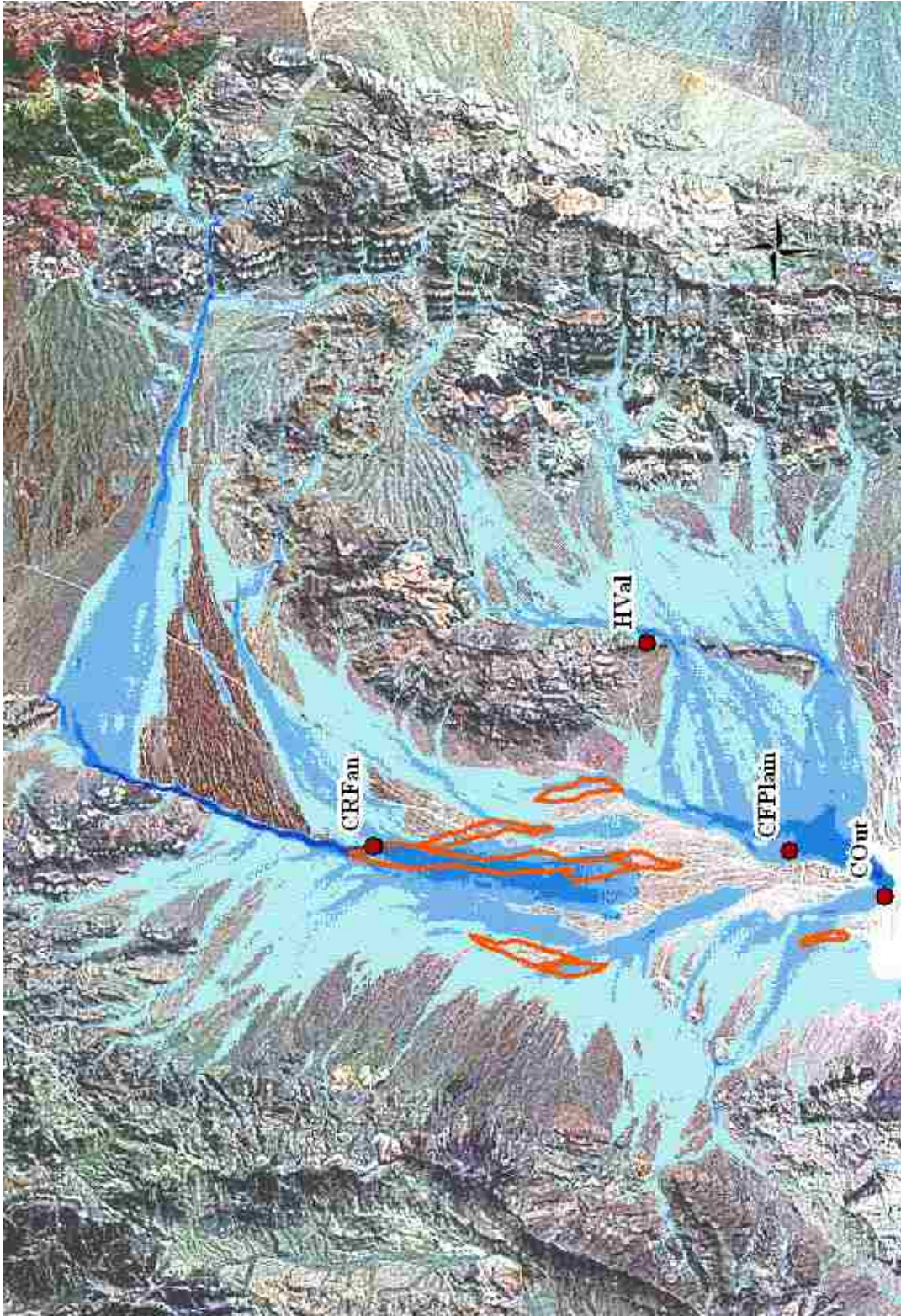
500-Year Event 1-Day Dry Time Floodwave Progression 7.5 Hours



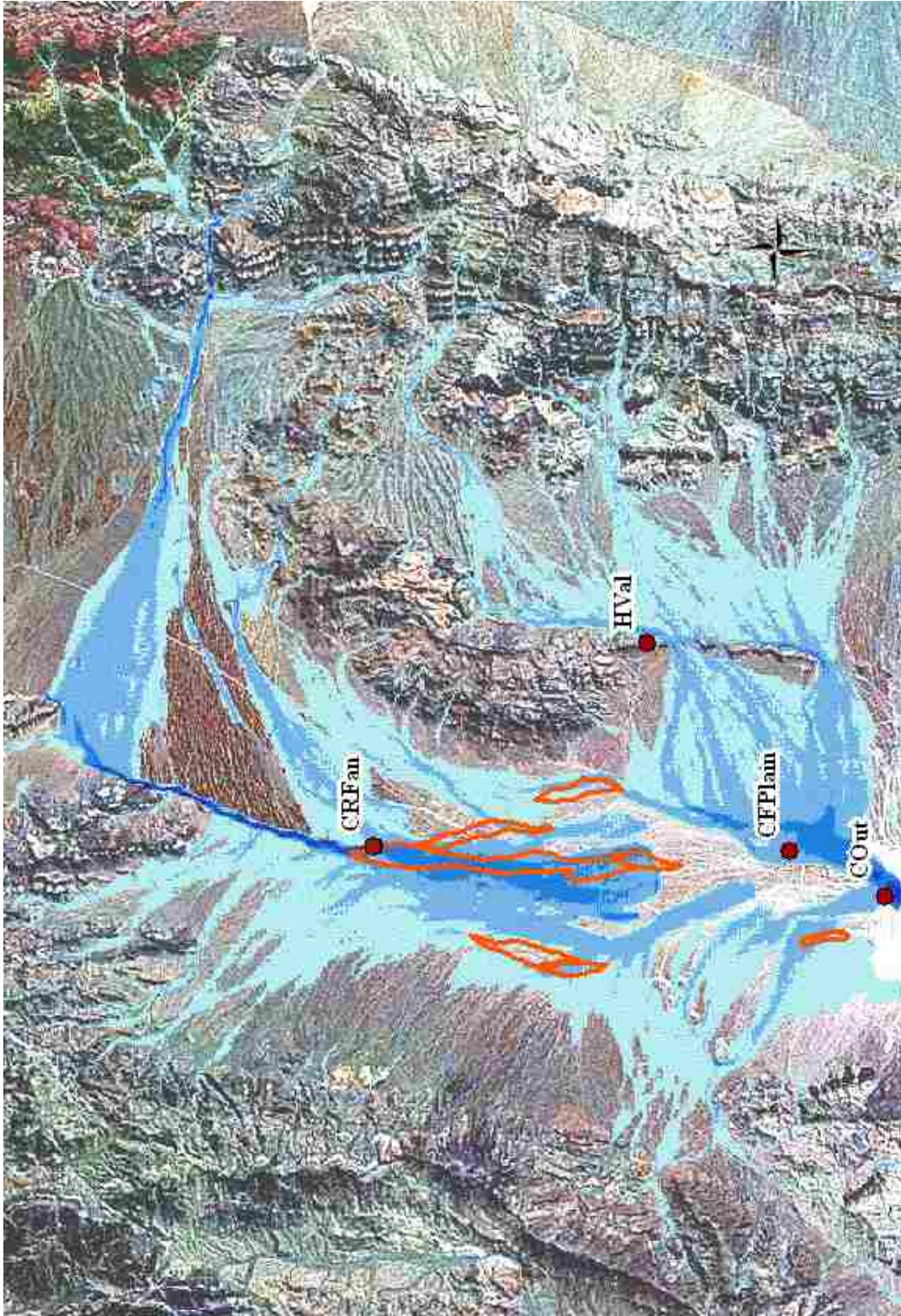
500-Year Event 1-Day Dry Time Floodwave Progression 8.0 Hours



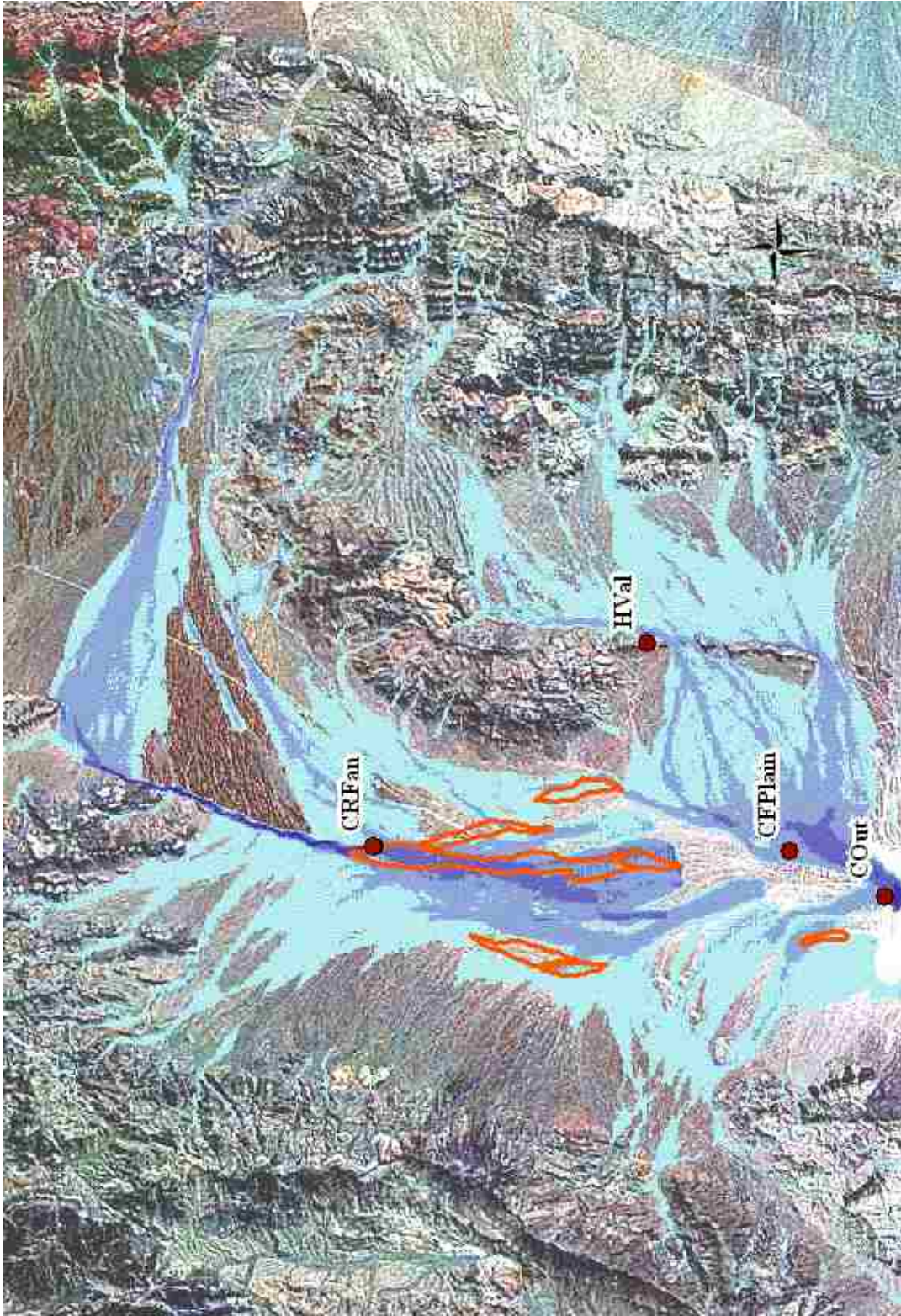
500-Year Event 1-Day Dry Time Floodwave Progression 8.5 Hours



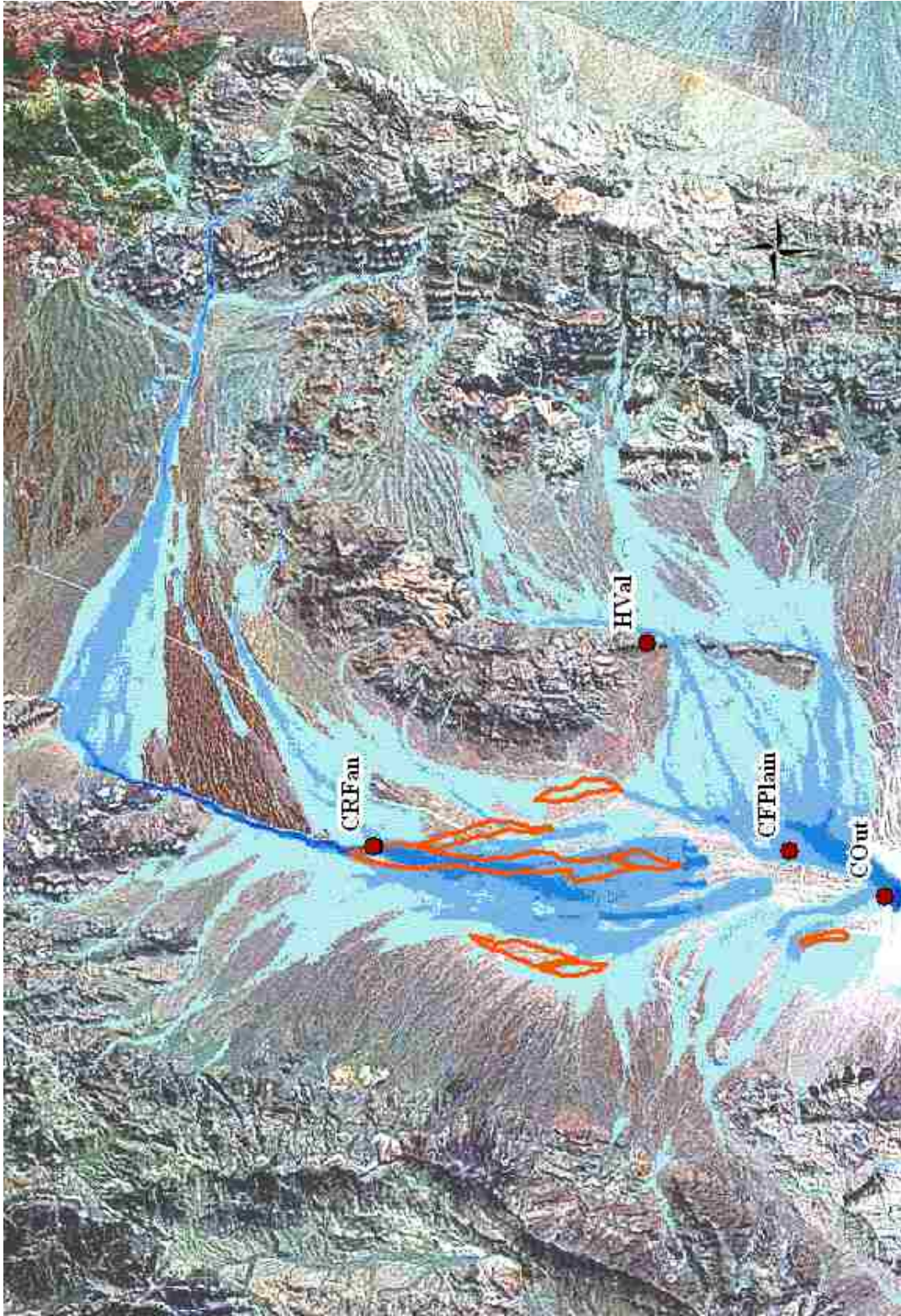
500-Year Event 1-Day Dry Time Floodwave Progression 9.0 Hours



500-Year Event 1-Day Dry Time Floodwave Progression 9.5 Hours



500-Year Event 1-Day Dry Time Floodwave Progression 10.0 Hours



500-Year Event 1-Day Dry Time Floodwave Progression 10.5 Hours



500-Year Event 1-Day Dry Time Floodwave Progression 11.0 Hours



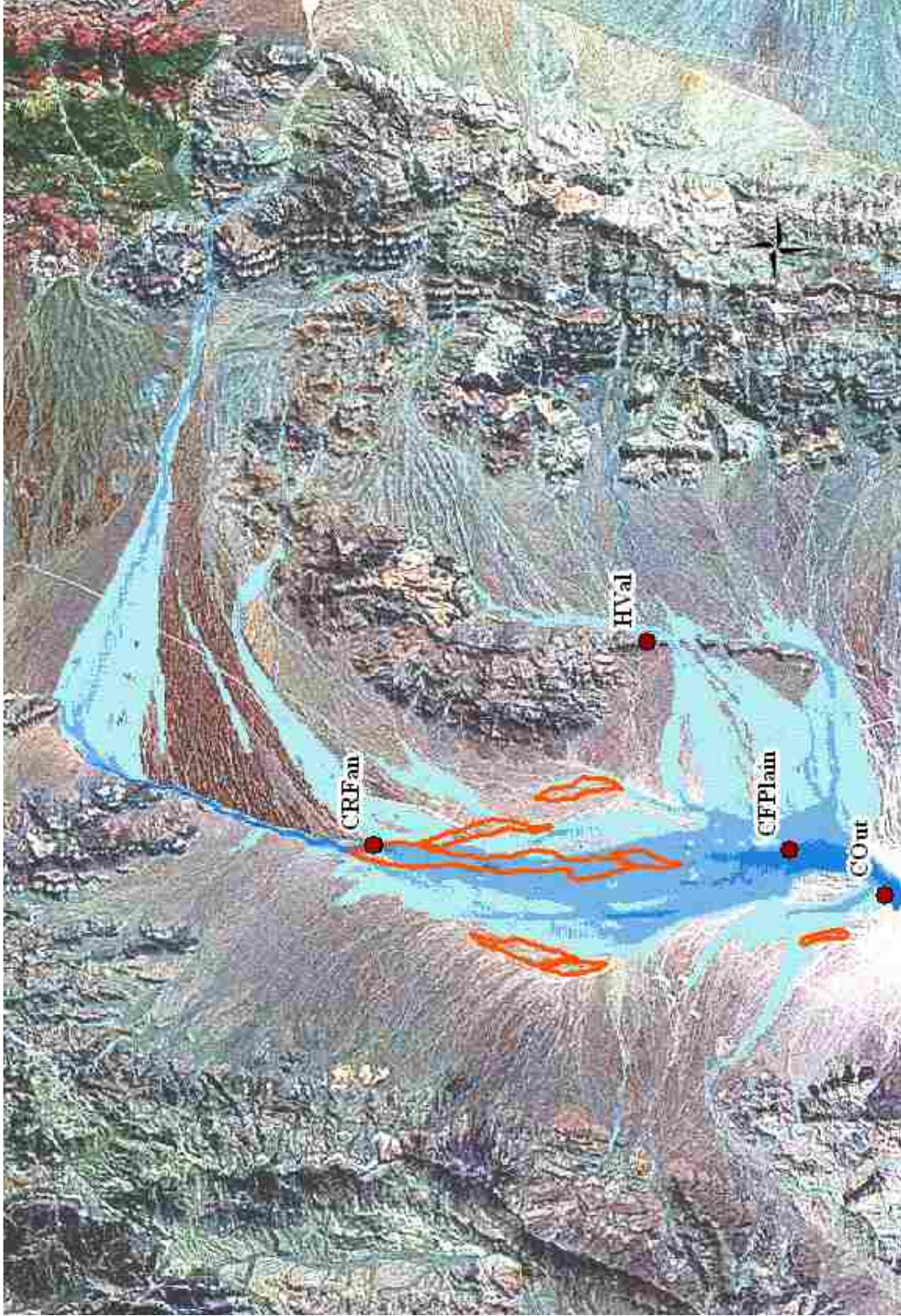
500-Year Event 1-Day Dry Time Floodwave Progression 11.5 Hours



500-Year Event 1-Day Dry Time Floodwave Progression 12.0 Hours



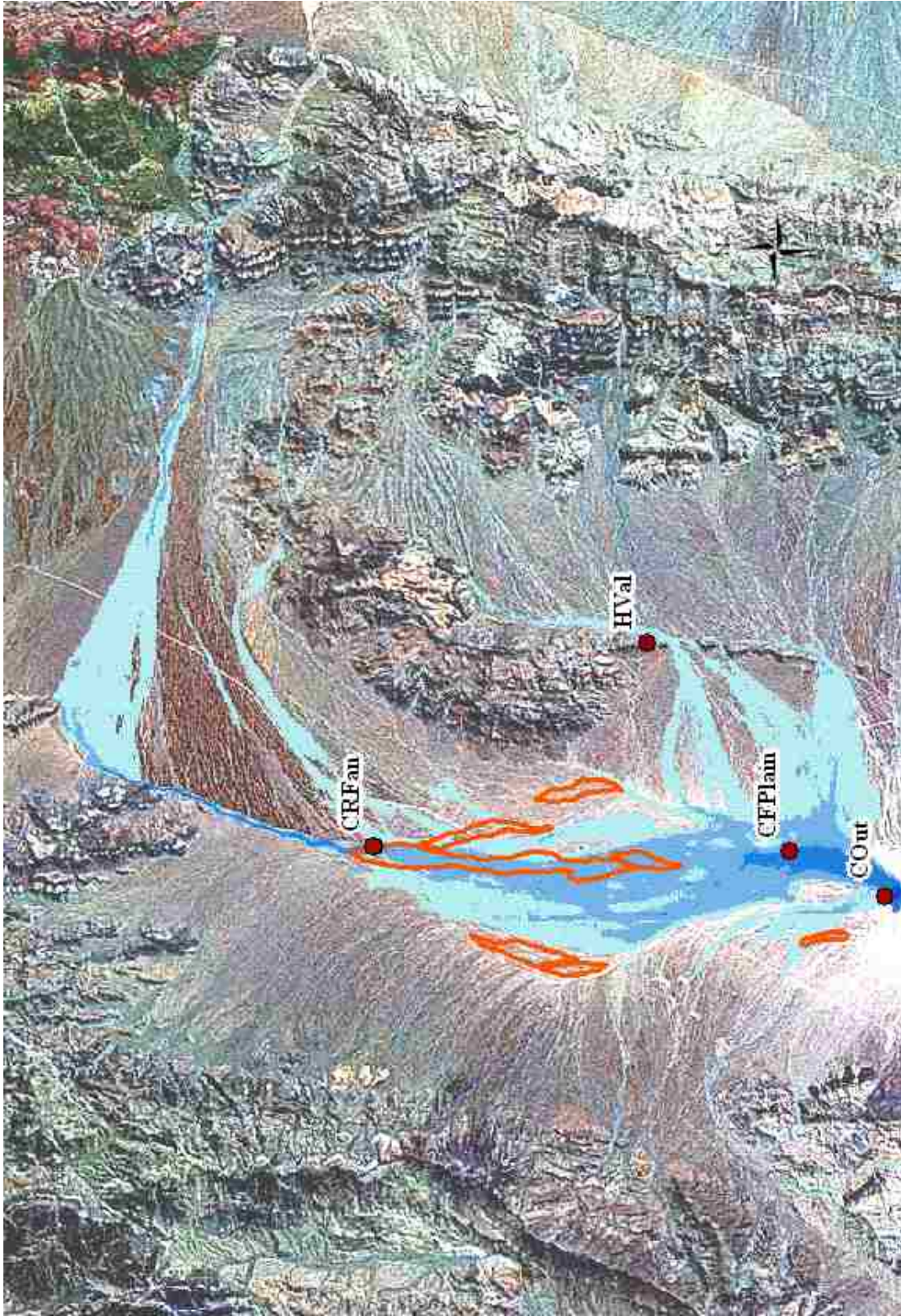
500-Year Event 1-Day Dry Time Floodwave Progression 12.5 Hours



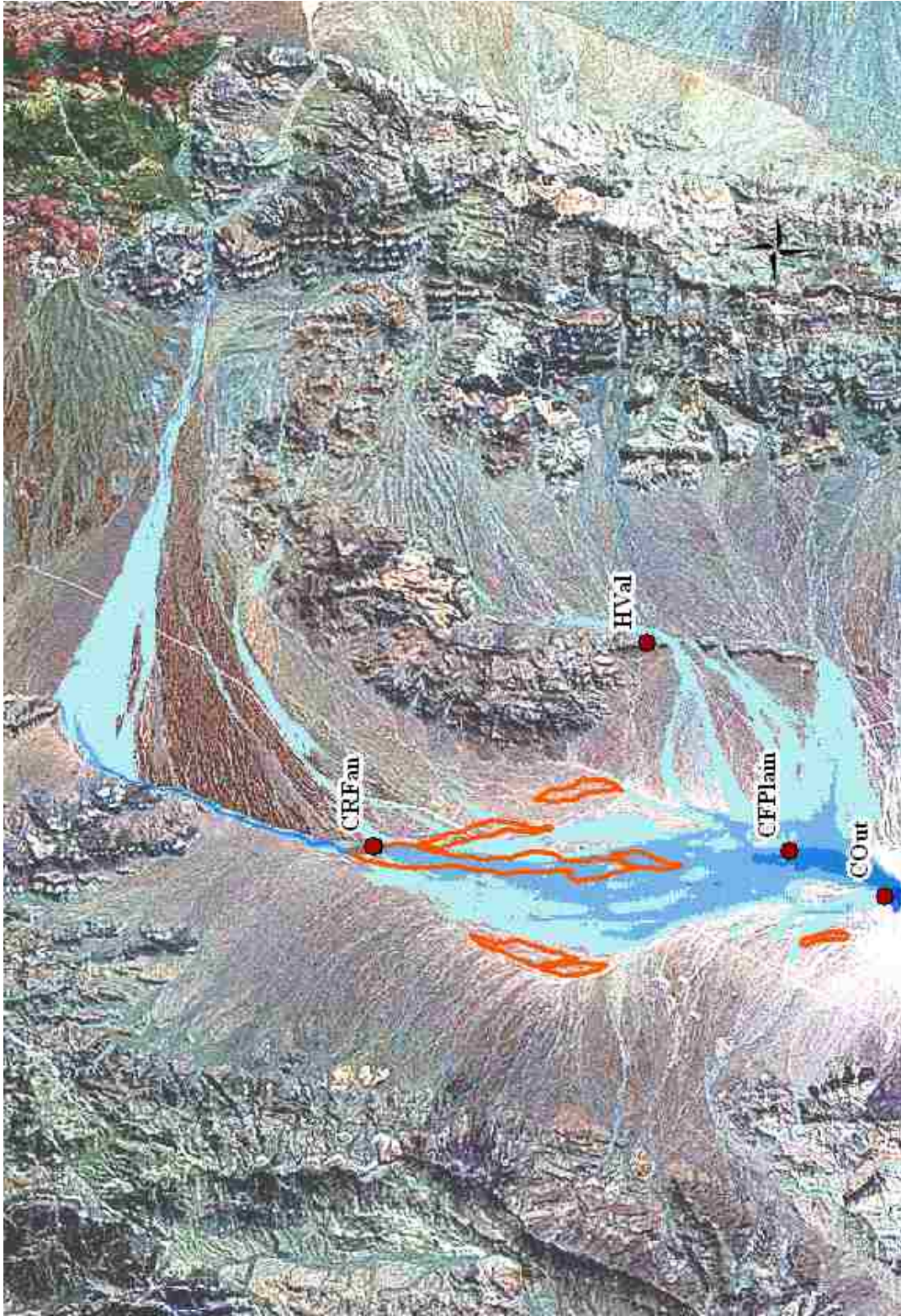
500-Year Event 1-Day Dry Time Floodwave Progression 13.0 Hours



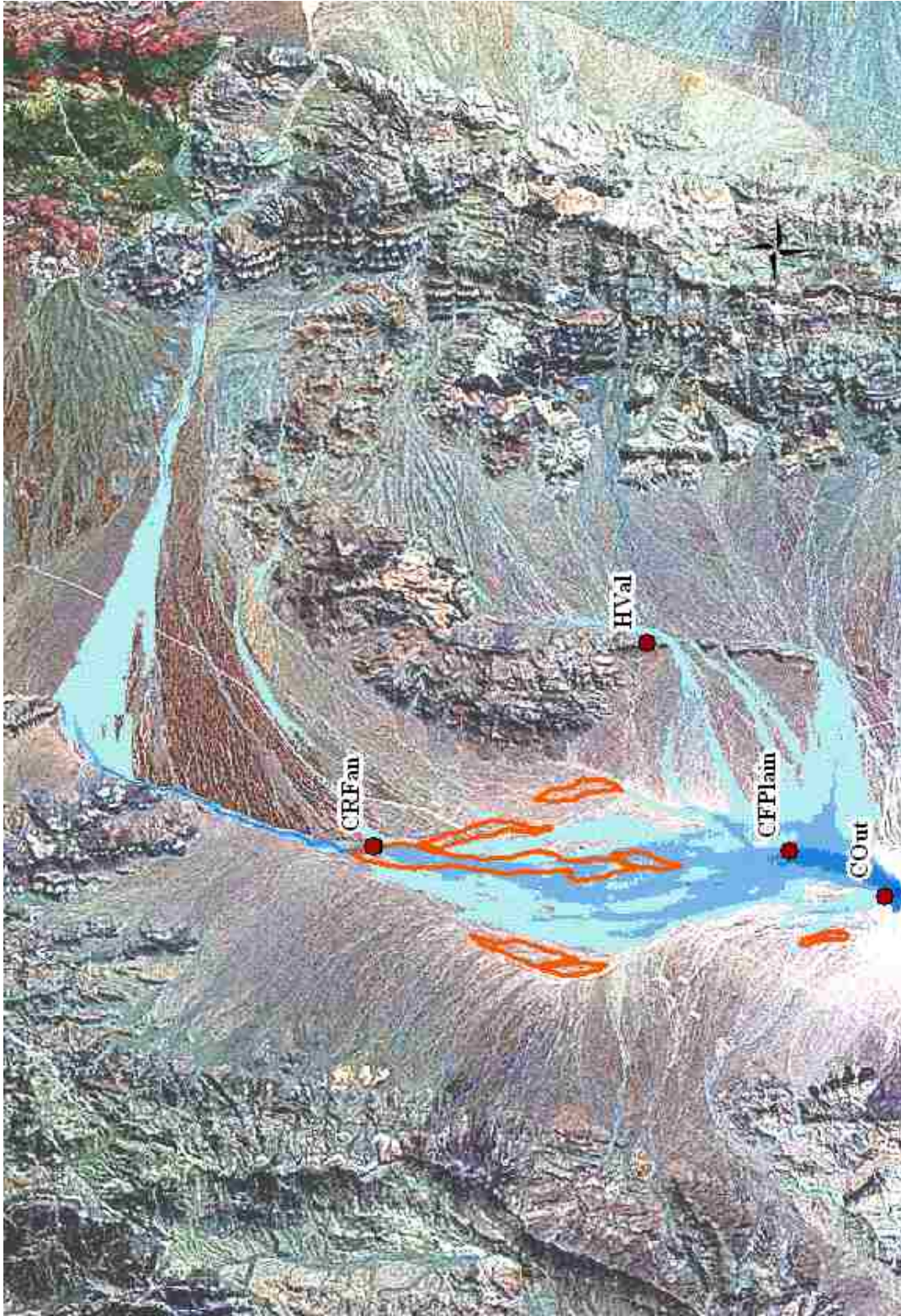
500-Year Event 1-Day Dry Time Floodwave Progression 13.5 Hours



500-Year Event 1-Day Dry Time Floodwave Progression 14.0 Hours



500-Year Event 1-Day Dry Time Floodwave Progression 14.5 Hours



500-Year Event 1-Day Dry Time Floodwave Progression 15.0 Hours

APPENDIX 2
CALCULATIONS

Qf2 Rosetta Output

Code	Theta_r	Theta_s	log Alpha	log Npar	Lpar	log Ks	Ks (cm/day)	adj Ks (cm/day)	adj Ks (cm/hr)
1	0.0411	0.4024	-1.7022	0.1614	-0.6018	1.8043			
2	0.0501	0.3909	-1.5731	0.1588	-0.9858	1.5435			
3	0.0479	0.3843	-1.7508	0.1602	-0.6772	1.4138			
4	0.0471	0.4076	-1.9387	0.1779	-0.1646	1.6740			
5	0.0580	0.4236	-1.9156	0.1742	-0.2795	1.5104			
6	0.0432	0.3730	-1.4405	0.1745	-1.0844	1.6693			
7	0.0380	0.3614	-1.8211	0.1647	-0.5100	1.4846			
8	0.0343	0.3662	-1.4351	0.1615	-1.0903	1.7296			
9	0.0401	0.3755	-1.4212	0.1762	-1.0618	1.7414			
10	0.0468	0.3804	-1.4752	0.1806	-1.0257	1.6901			
11	0.0413	0.3689	-1.3811	0.2562	-0.9184	2.0230			
12	0.0479	0.3843	-1.7508	0.1602	-0.6772	1.4138			
13	0.0449	0.3858	-1.4299	0.2092	-0.9513	1.8913			
14	0.0432	0.3676	-1.3964	0.2453	-0.9430	1.9648			
15	0.0355	0.3743	-1.3832	0.1897	-1.0072	1.8827			
16	0.0409	0.3767	-1.5054	0.1592	-1.0388	1.6217			
17	0.0408	0.3861	-1.3986	0.1979	-0.9795	1.9087			
18	0.0505	0.3939	-1.8624	0.1710	-0.4266	1.4263			
19	0.0342	0.3708	-1.6436	0.1581	-0.7677	1.7283			
20	0.0374	0.3911	-1.4109	0.1855	-0.9591	1.9500			
21	0.0517	0.4010	-1.6404	0.1598	-0.8477	1.5530			
22	0.0434	0.3898	-1.6051	0.1610	-0.8498	1.6454			
23	0.0433	0.3906	-1.5187	0.1667	-0.9537	1.7125			
24	0.0421	0.3886	-1.5601	0.1619	-0.9094	1.6827			

Qf2 Rosetta Output

Code	Theta_r	Theta_s	log Alpha		log Npar	Lpar	log Ks	Ks (cm/day)	adj Ks (cm/day)	adj Ks (cm/hr)	
25	0.0355	0.4029	-1.5189		0.1616	-0.8539	1.9949				
26	0.0361	0.3948	-1.6047		0.1629	-0.7405	1.9009				
27	0.0355	0.4169	-1.5726		0.1573	-0.7341	2.0957				
28	0.0408	0.3947	-1.5360		0.1687	-0.8761	1.7959				
29	0.0370	0.3848	-1.3662		0.2139	-0.9371	2.0289				
30	0.0392	0.3811	-1.5058		0.1632	-0.9810	1.7119				
31	0.0437	0.3946	-1.4257		0.2230	-0.8863	2.0061				
32	0.0421	0.3886	-1.5601		0.1619	-0.9094	1.6827				
33	0.0371	0.3988	-1.4443		0.1756	-0.9275	1.9726				
34	0.0455	0.3956	-1.5093		0.1684	-0.9647	1.7295				
35	0.0437	0.3943	-1.3890		0.3075	-0.8393	2.3187				
36	0.0369	0.3960	-1.6023		0.1591	-0.7685	1.8782				
37	0.0400	0.3830	-1.5088		0.1630	-0.9798	1.7074				
38	0.0416	0.3914	-1.5875		0.1620	-0.8478	1.7119				
39	0.0433	0.3906	-1.5187		0.1667	-0.9537	1.7125				
40	0.0411	0.4024	-1.7022		0.1614	-0.6018	1.8043				
41	0.0471	0.4076	-1.9387		0.1779	-0.1646	1.6740				
42	0.0426	0.4134	-1.6343		0.1611	-0.6956	1.8713				
43	0.0387	0.4132	-1.3924		0.1969	-0.8879	2.1375				
44	0.0603	0.3747	-2.0409		0.1783	-0.3000	0.8787				
45	0.0698	0.4007	-2.1002		0.1869	-0.1877	0.9129				
46	0.0353	0.3970	-1.4721		0.1642	-0.9318	1.9677				
Average	0.043	0.390	-1.58	0.0260	0.18	1.508	-0.797	1.743	55.284	41.656	1.736

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Qf3 Rosetta Output

Code	Theta_r	Theta_s	log Alpha	log Npar	Lpar	log Ks	Ks (cm/day)	adj Ks (cm/day)	adj Ks (cm/hr)
1	0.04247	0.40645	-1.4966	0.17345	-0.8888	1.89159			
2	0.03935	0.41127	-1.5651	0.16186	-0.7848	1.94995			
3	0.03941	0.36702	-1.4125	0.17246	-1.1097	1.68005			
4	0.0439	0.40624	-1.5332	0.16898	-0.8688	1.83187			
5	0.03728	0.35687	-1.4414	0.15388	-1.1939	1.54429			
6	0.03804	0.35851	-1.4456	0.15363	-1.1933	1.5389			
7	0.03827	0.36965	-1.4574	0.16266	-1.0832	1.65345			
8	0.03965	0.36762	-1.5242	0.15468	-1.0556	1.54389			
9	0.03577	0.34935	-1.4093	0.15387	-1.2445	1.53277			
10	0.041	0.38486	-1.4389	0.17966	-1.0024	1.8004			
11	0.04327	0.36917	-1.4602	0.159	-1.1582	1.55639			
12	0.03915	0.35731	-1.5395	0.14771	-1.1106	1.43135			
13	0.04001	0.34327	-1.5907	0.13457	-1.2025	1.20283			
14	0.03797	0.35046	-1.4271	0.14783	-1.2917	1.46507			
15	0.04741	0.41045	-1.7428	0.16582	-0.5492	1.70957			
16	0.04882	0.37527	-1.5852	0.14746	-1.0839	1.37138			
17	0.04484	0.44548	-1.5563	0.16309	-0.7193	2.09213			
18	0.03895	0.41675	-1.373	0.22196	-0.844	2.24318			
19	0.04203	0.37888	-1.3875	0.265	-0.8865	2.10088			
20	0.03817	0.34895	-1.3666	0.16338	-1.2592	1.57052			
21	0.03574	0.34137	-1.7183	0.15015	-0.8082	1.33284			
22	0.04512	0.42176	-1.608	0.16101	-0.736	1.88716			

Qf3 Rosetta Output

Code	Theta_r	Theta_s	log Alpha	log Npar	Lpar	log Ks	Ks (cm/day)	adj Ks (cm/day)	adj Ks (cm/hr)		
23	0.0344	0.393	-1.5199	0.15987	-0.8862	1.94102					
24	0.04275	0.40668	-1.4793	0.17738	-0.8994	1.90992					
25	0.03785	0.40536	-1.7545	0.16302	-0.4464	1.93727					
26	0.04512	0.42176	-1.608	0.16101	-0.736	1.88716					
27	0.04099	0.42642	-1.6601	0.15895	-0.5867	2.01626					
28	0.0439	0.40624	-1.5332	0.16898	-0.8688	1.83187					
29	0.04247	0.40645	-1.4966	0.17345	-0.8888	1.89159					
30	0.03861	0.41571	-1.818	0.16631	-0.2738	2.01452					
31	0.04165	0.39778	-1.404	0.21984	-0.889	2.05306					
32	0.04388	0.41983	-1.5655	0.16439	-0.7858	1.91903					
33	0.03935	0.41127	-1.5651	0.16186	-0.7848	1.94995					
34	0.03895	0.41675	-1.373	0.22196	-0.844	2.24318					
35	0.04523	0.41221	-1.3991	0.31314	-0.8068	2.41861					
36	0.04484	0.44548	-1.5563	0.16309	-0.7193	2.09213					
37	0.0386	0.42282	-1.3735	0.21294	-0.8408	2.26067					
38	0.04692	0.42194	-1.4014	0.36695	-0.8029	2.6175					
39	0.06171	0.34634	-2.0183	0.15156	-0.5561	0.41985					
40	0.05561	0.3394	-1.9871	0.15183	-0.5697	0.55699					
41	0.05625	0.3402	-1.9676	0.1481	-0.6243	0.53526					
42	0.05521	0.39953	-2.1889	0.20842	0.14151	1.44127					
43	0.05968	0.36668	-2.0958	0.18278	-0.2323	0.82538					
44	0.06768	0.36703	-1.941	0.1417	-0.7171	0.48159					
45	0.04448	0.33606	-1.7795	0.13837	-0.9043	0.90409					
Average	0.044	0.389	-1.586	0.026	0.177	1.504	-0.835	1.686	48.505	32.736	1.36

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Qf4 Rosetta Output

Code	Theta_r	Theta_s	Log Alpha	Log Npar	Lpar	Log Ks	Ks (cm/day)	adj Ks (cm/day)	adj Ks (cm/hr)		
1	0.04004	0.43882	-1.8211	0.16402	-0.1833	2.16061					
2	0.03336	0.3462	-1.4304	0.14567	-1.2677	1.53051					
3	0.03867	0.39983	-1.6437	0.16243	-0.6844	1.86164					
4	0.03608	0.38145	-1.7128	0.16169	-0.6099	1.76938					
5	0.03399	0.32711	-1.2914	0.16555	-1.3348	1.54608					
6	0.03635	0.34698	-1.3236	0.20079	-1.1054	1.76699					
7	0.03504	0.34883	-1.3918	0.15294	-1.2704	1.55285					
8	0.03941	0.35728	-1.3638	0.22684	-0.9981	1.87416					
9	0.03291	0.33976	-1.4184	0.14112	-1.3454	1.4755					
10	0.0343	0.33474	-1.5291	0.13522	-1.2631	1.32305					
11	0.04845	0.30915	-1.7939	0.11085	-1.3789	0.34221					
12	0.04012	0.40648	-1.4932	0.17104	-0.8808	1.93392					
13	0.03241	0.28774	-1.2239	0.11778	-2.1532	1.1176					
Average	0.037	0.361	-1.518	0.030	0.162	1.450	-1.113	1.595	39.332	23.599	0.983

Qf5 Rosetta Output

Code	Theta_r	Theta_s	Log Alpha	Log Npar	Lpar	Log Ks	Ks (cm/day)	adj Ks (cm/day)	adj Ks (cm/hr)
1	0.038813	0.305188	-1.3291	0.099927	-2.60342	0.971153			
2	0.036231	0.362215	-1.35034	0.206358	-1.02383	1.862585			
3	0.036821	0.343237	-1.43764	0.137182	-1.39445	1.378487			
4	0.0341	0.304112	-1.28161	0.108763	-2.31988	1.104471			
5	0.038727	0.372624	-1.3972	0.193343	-1.01435	1.819682			
6	0.040658	0.371216	-1.47467	0.159396	-1.09935	1.598212			
7	0.038084	0.380133	-1.55182	0.157649	-0.93267	1.700695			
8	0.037608	0.370206	-1.35333	0.236919	-0.93931	2.006941			
9	0.03537	0.341054	-1.32297	0.170975	-1.25063	1.617272			
10	0.029872	0.297456	-1.21846	0.120405	-2.05737	1.243219			
11	0.048683	0.382467	-1.45818	0.508214	-0.88483	2.790775			
12	0.03312	0.325166	-1.29049	0.155067	-1.41594	1.496542			
13	0.030169	0.311152	-1.26489	0.127063	-1.82311	1.341873			
14	0.045592	0.360647	-1.81433	0.158728	-0.63954	1.193871			
15	0.04116	0.375999	-1.55281	0.15487	-0.99702	1.572397			
16	0.03283	0.309436	-1.43603	0.111042	-1.92484	1.070378			
17	0.040432	0.286698	-1.32849	0.12951	-1.83731	1.066292			
18	0.045586	0.362203	-1.41852	0.393464	-0.86383	2.422569			
19	0.04094	0.519858	-1.37729	0.158646	-0.86076	2.526451			
20	0.044044	0.344498	-1.42504	0.136339	-1.50159	1.330759			
21	0.050081	0.435785	-1.42313	0.439563	-0.80411	2.83704			
22	0.040586	0.296742	-1.37753	0.33321	-0.90746	1.98044			
23	0.031777	0.300914	-1.23366	0.154334	-1.50454	1.399593			
24	0.044181	0.361356	-1.40591	0.378514	-0.85917	2.373038			

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Qf5 Rosetta Output

Code	Theta_r	Theta_s	Log Alpha	Log Npar	Lpar	Log Ks	Ks (cm/day)	adj Ks (cm/day)	adj Ks (cm/hr)		
25	0.029024	0.308582	-1.35373	0.117953	-1.8633	1.265187					
26	0.038247	0.330468	-1.3328	0.262288	-0.9867	1.902279					
27	0.027934	0.277055	-1.1517	0.114061	-2.33208	1.143302					
28	0.035767	0.318688	-1.30994	0.131521	-1.72297	1.295883					
29	0.035818	0.343148	-1.31535	0.234026	-1.01457	1.878365					
Average	0.038	0.345	-1.379	0.042	0.200	1.584	-1.358	1.662	45.890	30.287	1.26

Qp1 Rosetta Output

Code	Theta_r	Theta_s	Log Alpha	Log Npar	Lpar	Log Ks	Ks (cm/day)	adj Ks (cm/day)	adj Ks (cm/hr)		
1	0.0406	0.3808	-1.3926	0.1977	-1.0002	1.8781					
2	0.0395	0.3637	-1.3773	0.2023	-1.0388	1.8051					
3	0.0463	0.3748	-1.4667	0.1778	-1.0622	1.6555					
4	0.0438	0.4244	-1.4337	0.1957	-0.8484	2.1089					
5	0.0409	0.3557	-1.3845	0.1830	-1.1403	1.6674					
6	0.0395	0.3607	-1.3882	0.1923	-1.0692	1.7357					
7	0.0489	0.3713	-1.5052	0.1485	-1.2212	1.4402					
8	0.0436	0.3885	-1.3892	0.3099	-0.8470	2.2951					
9	0.0422	0.4690	-1.3478	0.2178	-0.7688	2.4845					
10	0.0432	0.3507	-1.5284	0.1345	-1.3231	1.2445					
11	0.0457	0.3540	-1.4940	0.1313	-1.4388	1.2634					
Average	0.043	0.381	-1.428	0.037	0.190	1.549	-1.069	1.780	60.237	50.599	2.108

Qp2 Rosetta Output

Code	Theta_r	Theta_s	Log Alpha	Log Npar	Lpar	Log Ks	Ks	adj Ks	adj Ks		
							(cm/day)	(cm/day)	(cm/hr)		
1	0.041	0.329	-1.363	0.128	-1.728	1.269					
2	0.049	0.340	-1.471	0.105	-2.109	1.040					
3	0.039	0.331	-1.352	0.146	-1.485	1.394					
4	0.048	0.330	-1.462	0.096	-2.498	0.918					
5	0.041	0.351	-1.380	0.210	-1.061	1.763					
6	0.040	0.324	-1.346	0.217	-1.119	1.707					
7	0.048	0.373	-1.452	0.475	-0.882	2.674					
8	0.040	0.323	-1.339	0.213	-1.133	1.688					
9	0.039	0.326	-1.334	0.232	-1.067	1.775					
10	0.042	0.342	-1.370	0.186	-1.187	1.631					
11	0.037	0.313	-1.304	0.151	-1.509	1.370					
12	0.040	0.401	-1.408	0.203	-0.901	2.035					
Average	0.042	0.340	-1.382	0.042	0.197	1.573	-1.390	1.605	40.305	34.852	1.452

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Qp3 Rosetta Output

Code	Theta_r	Theta_s	Log Alpha	Log Npar	Lpar	Log Ks	Ks (cm/day)	adj Ks (cm/day)	adj Ks (cm/hr)		
1	0.0461	0.3597	-1.7458	0.1507	-0.8114	1.1729					
2	0.0483	0.3843	-1.7372	0.1602	-0.7058	1.4110					
3	0.0370	0.3934	-1.7190	0.1618	-0.5598	1.8521					
4	0.0360	0.3705	-1.5052	0.1559	-1.0276	1.6799					
5	0.0360	0.3684	-1.6467	0.1586	-0.7884	1.6412					
6	0.0443	0.4258	-1.3893	0.2824	-0.7865	2.4115					
7	0.0411	0.3835	-1.3949	0.2223	-0.9288	1.9782					
8	0.0421	0.3932	-1.4627	0.1783	-0.9591	1.8283					
9	0.0442	0.3690	-1.4021	0.2576	-0.9247	2.0126					
10	0.0451	0.3967	-1.4050	0.3240	-0.8273	2.3647					
11	0.0380	0.3574	-1.4481	0.1574	-1.1648	1.5416					
12	0.0337	0.3140	-1.2637	0.1837	-1.2633	1.5756					
13	0.0401	0.3683	-1.3639	0.2943	-0.8793	2.1649					
14	0.0354	0.3445	-1.3165	0.2092	-1.0777	1.7959					
15	0.0489	0.3633	-1.9604	0.1734	-0.3619	1.1113					
16	0.0412	0.4393	-1.4294	0.1852	-0.8136	2.2152					
Average	0.041	0.377	-1.512	0.031	0.203	1.597	-0.868	1.797	62.708	40.886	1.704

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Qf2

Pcp_File_Version=4

*** BLOCK I: ATMOSPHERIC INFORMATION *****

MaxAL (MaxAL = number of atmospheric data-records)

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DailyVar SinusVar IDummy IDummy IDummy IDummy IDummy IDummy IDummy IDummy

f f f f f t f f f f

hCritS (max. allowed pressure head at the soil surface)

0

tAtm	Prec	rSoil	rRoot	hCritA	rB	hB	ht	tTop	tBot	Ampl	RootDepth
1	0	0.034	0	5000	0	0	0	26.72	20	23.3	
2	0	0.034	0	5000	0	0	0	26.72	20	23.3	
3	0	0.034	0	5000	0	0	0	26.72	20	23.3	
4	0	0.034	0	5000	0	0	0	25.61	20	23.3	
5	0	0.034	0	5000	0	0	0	24.39	20	23.3	
6	0	0.034	0	5000	0	0	0	23.89	20	23.3	
7	0	0.034	0	5000	0	0	0	23.89	20	23.3	
8	0	0.034	0	5000	0	0	0	23.28	20	23.3	
9	0	0.034	0	5000	0	0	0	25	20	23.3	
10	0	0.034	0	5000	0	0	0	23.89	20	23.3	
11	0	0.034	0	5000	0	0	0	21.72	20	23.3	
12	0	0.034	0	5000	0	0	0	21.11	20	23.3	
13	0	0.034	0	5000	0	0	0	21.72	20	23.3	
14	0	0.034	0	5000	0	0	0	22.78	20	23.3	
15	0	0.034	0	5000	0	0	0	23.89	20	23.3	
16	0	0.034	0	5000	0	0	0	25.61	20	23.3	
17	0	0.034	0	5000	0	0	0	24.39	20	23.3	
18	0	0.034	0	5000	0	0	0	22.78	20	23.3	
19	0	0.034	0	5000	0	0	0	22.78	20	23.3	
20	0	0.034	0	5000	0	0	0	22.22	20	23.3	
21	0	0.034	0	5000	0	0	0	22.78	20	23.3	
22	0	0.034	0	5000	0	0	0	22.22	20	23.3	

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23	0	0.034	0	5000	0	0	0	22.78	20	23.3
24	0	0.034	0	5000	0	0	0	22.22	20	23.3
25	0	0.034	0	5000	0	0	0	21.72	20	23.3
26	0	0.034	0	5000	0	0	0	22.22	20	23.3
27	0	0.034	0	5000	0	0	0	21.72	20	23.3
28	0	0.034	0	5000	0	0	0	21.72	20	23.3
29	0	0.034	0	5000	0	0	0	21.11	20	23.3
30	0	0.034	0	5000	0	0	0	21.11	20	23.3
31	0	0.034	0	5000	0	0	0	22.22	20	23.3
32	0	0.034	0	5000	0	0	0	23.89	20	23.3
33	0	0.034	0	5000	0	0	0	25	20	23.3
34	0	0.034	0	5000	0	0	0	26.11	20	23.3
35	0	0.034	0	5000	0	0	0	27.78	20	23.3
36	0	0.034	0	5000	0	0	0	29.39	20	23.3
37	0	0.034	0	5000	0	0	0	30.61	20	23.3
38	0	0.034	0	5000	0	0	0	31.11	20	23.3
39	0	0.034	0	5000	0	0	0	32.22	20	23.3
40	0	0.034	0	5000	0	0	0	31.72	20	23.3
41	0	0.034	0	5000	0	0	0	31.72	20	23.3
42	0	0.034	0	5000	0	0	0	32.22	20	23.3
43	0	0.034	0	5000	0	0	0	31.11	20	23.3
44	0	0.034	0	5000	0	0	0	23.28	20	23.3
45	0	0.034	0	5000	0	0	0	25.61	20	23.3
46	0	0.034	0	5000	0	0	0	23.89	20	23.3
47	0	0.034	0	5000	0	0	0	24.39	20	23.3
48	0	0.034	0	5000	0	0	0	23.28	20	23.3
49	0	0.034	0	5000	0	0	0	22.78	20	23.3
50	0	0.034	0	5000	0	0	0	22.78	20	23.3
51	0	0.034	0	5000	0	0	0	22.78	20	23.3
52	0	0.034	0	5000	0	0	0	21.11	20	23.3
53	0	0.034	0	5000	0	0	0	21.11	20	23.3
54	0	0.034	0	5000	0	0	0	20.61	20	23.3
55	0	0.034	0	5000	0	0	0	21.72	20	23.3
56	0	0.034	0	5000	0	0	0	24.39	20	23.3

57	0	0.034	0	5000	0	0	0	26.11	20	23.3
58	0	0.034	0	5000	0	0	0	28.89	20	23.3
59	0	0.034	0	5000	0	0	0	30.61	20	23.3
60	0	0.034	0	5000	0	0	0	32.22	20	23.3
61	0	0.034	0	5000	0	0	0	33.28	20	23.3
62	0	0.034	0	5000	0	0	0	33.89	20	23.3
63	0	0.034	0	5000	0	0	0	35.61	20	23.3
64	0	0.034	0	5000	0	0	0	36.11	20	23.3
65	0	0.034	0	5000	0	0	0	36.72	20	23.3
66	0	0.034	0	5000	0	0	0	36.11	20	23.3
67	0	0.034	0	5000	0	0	0	33.28	20	23.3
68	0	0.034	0	5000	0	0	0	31.72	20	23.3
69	0	0.034	0	5000	0	0	0	30.61	20	23.3
70	0	0.034	0	5000	0	0	0	28.28	20	23.3
71	0	0.034	0	5000	0	0	0	28.28	20	23.3
72	0	0.034	0	5000	0	0	0	26.11	20	23.3
73	0	0.034	0	5000	0	0	0	26.11	20	23.3
74	0	0.034	0	5000	0	0	0	25.61	20	23.3
75	0	0.034	0	5000	0	0	0	25	20	23.3
76	0	0.034	0	5000	0	0	0	23.28	20	23.3
77	0	0.034	0	5000	0	0	0	22.22	20	23.3
78	0	0.034	0	5000	0	0	0	20.61	20	23.3
79	0	0.034	0	5000	0	0	0	22.78	20	23.3
80	0	0.034	0	5000	0	0	0	26.72	20	23.3
81	0	0.034	0	5000	0	0	0	28.89	20	23.3
82	0	0.034	0	5000	0	0	0	32.22	20	23.3
83	0	0.034	0	5000	0	0	0	35	20	23.3
84	0	0.034	0	5000	0	0	0	35.61	20	23.3
85	0	0.034	0	5000	0	0	0	37.22	20	23.3
86	0	0.034	0	5000	0	0	0	37.22	20	23.3
87	0	0.034	0	5000	0	0	0	36.72	20	23.3
88	0	0.034	0	5000	0	0	0	37.22	20	23.3
89	0	0.034	0	5000	0	0	0	37.78	20	23.3
90	0	0.034	0	5000	0	0	0	37.22	20	23.3

91	0	0.034	0	5000	0	0	0	36.72	20	23.3
92	0	0.034	0	5000	0	0	0	35.61	20	23.3
93	0	0.034	0	5000	0	0	0	33.89	20	23.3
94	0	0.034	0	5000	0	0	0	32.22	20	23.3
95	0	0.034	0	5000	0	0	0	31.72	20	23.3
96	0	0.034	0	5000	0	0	0	31.72	20	23.3
97	0	0.034	0	5000	0	0	0	31.11	20	23.3
98	0	0.034	0	5000	0	0	0	28.89	20	23.3
99	0	0.034	0	5000	0	0	0	28.28	20	23.3
100	0	0.034	0	5000	0	0	0	27.22	20	23.3
101	0	0.034	0	5000	0	0	0	25.61	20	23.3
102	0	0.034	0	5000	0	0	0	23.89	20	23.3
103	0	0.034	0	5000	0	0	0	26.11	20	23.3
104	0	0.034	0	5000	0	0	0	28.28	20	23.3
105	0	0.034	0	5000	0	0	0	31.11	20	23.3
106	0	0.034	0	5000	0	0	0	33.89	20	23.3
107	0	0.034	0	5000	0	0	0	34.39	20	23.3
108	0	0.034	0	5000	0	0	0	35.61	20	23.3
109	0	0.034	0	5000	0	0	0	36.11	20	23.3
110	0	0.034	0	5000	0	0	0	35.61	20	23.3
111	0	0.034	0	5000	0	0	0	36.11	20	23.3
112	0	0.034	0	5000	0	0	0	36.72	20	23.3
113	0	0.034	0	5000	0	0	0	36.11	20	23.3
114	0	0.034	0	5000	0	0	0	35.61	20	23.3
115	0	0.034	0	5000	0	0	0	34.39	20	23.3
116	0	0.034	0	5000	0	0	0	32.78	20	23.3
117	0	0.034	0	5000	0	0	0	31.11	20	23.3
118	0	0.034	0	5000	0	0	0	30.61	20	23.3
119	0	0.034	0	5000	0	0	0	30	20	23.3
120	0	0.034	0	5000	0	0	0	28.89	20	23.3
121	0	0.034	0	5000	0	0	0	27.78	20	23.3
122	0	0.034	0	5000	0	0	0	25.61	20	23.3
123	0	0.034	0	5000	0	0	0	23.28	20	23.3
124	0	0.034	0	5000	0	0	0	23.89	20	23.3

125	0	0.034	0	5000	0	0	0	23.28	20	23.3
126	0	0.034	0	5000	0	0	0	22.78	20	23.3
127	0	0.034	0	5000	0	0	0	22.78	20	23.3
128	0	0.034	0	5000	0	0	0	24.39	20	23.3
129	0	0.034	0	5000	0	0	0	27.22	20	23.3
130	0	0.034	0	5000	0	0	0	29.39	20	23.3
131	0	0.034	0	5000	0	0	0	31.11	20	23.3
132	0	0.034	0	5000	0	0	0	32.22	20	23.3
133	0	0.034	0	5000	0	0	0	33.28	20	23.3
134	0	0.034	0	5000	0	0	0	33.89	20	23.3
135	0	0.034	0	5000	0	0	0	33.89	20	23.3
136	0	0.034	0	5000	0	0	0	33.89	20	23.3
137	0	0.034	0	5000	0	0	0	33.89	20	23.3
138	0	0.034	0	5000	0	0	0	33.89	20	23.3
139	0	0.034	0	5000	0	0	0	32.78	20	23.3
140	0	0.034	0	5000	0	0	0	30.61	20	23.3
141	0	0.034	0	5000	0	0	0	28.89	20	23.3
142	0	0.034	0	5000	0	0	0	25.61	20	23.3
143	0	0.034	0	5000	0	0	0	22.78	20	23.3
144	0	0.034	0	5000	0	0	0	22.78	20	23.3
145	0	0.034	0	5000	0	0	0	22.78	20	23.3
146	0	0.034	0	5000	0	0	0	21.11	20	23.3
147	0	0.034	0	5000	0	0	0	20.61	20	23.3
148	0	0.034	0	5000	0	0	0	18.28	20	23.3
149	0	0.034	0	5000	0	0	0	16.72	20	23.3
150	0	0.034	0	5000	0	0	0	16.72	20	23.3
151	0	0.034	0	5000	0	0	0	17.78	20	23.3
152	0	0.034	0	5000	0	0	0	21.72	20	23.3
153	0	0.034	0	5000	0	0	0	24.39	20	23.3
154	0	0.034	0	5000	0	0	0	26.11	20	23.3
155	0	0.034	0	5000	0	0	0	28.28	20	23.3
156	0	0.034	0	5000	0	0	0	28.89	20	23.3
157	0	0.034	0	5000	0	0	0	31.11	20	23.3
158	0	0.034	0	5000	0	0	0	32.78	20	23.3

159	0	0.034	0	5000	0	0	0	33.89	20	23.3
160	0	0.034	0	5000	0	0	0	33.89	20	23.3
161	0	0.034	0	5000	0	0	0	33.89	20	23.3
162	0	0.034	0	5000	0	0	0	33.89	20	23.3
163	0	0.034	0	5000	0	0	0	32.78	20	23.3
164	0	0.034	0	5000	0	0	0	30.61	20	23.3
165	0	0.034	0	5000	0	0	0	29.39	20	23.3
166	0	0.034	0	5000	0	0	0	26.72	20	23.3
167	0	0.034	0	5000	0	0	0	26.72	20	23.3
168	0	0.034	0	5000	0	0	0	23.28	20	23.3
169	0	0.034	0	5000	0	0	0	23.89	20	23.3
170	0	0.034	0	5000	0	0	0	19.39	20	23.3
171	0	0.034	0	5000	0	0	0	17.78	20	23.3
172	0	0.034	0	5000	0	0	0	19.39	20	23.3
173	0	0.034	0	5000	0	0	0	17.22	20	23.3
174	0	0.034	0	5000	0	0	0	15.61	20	23.3
175	0	0.034	0	5000	0	0	0	17.78	20	23.3
176	0	0.034	0	5000	0	0	0	22.22	20	23.3
177	0	0.034	0	5000	0	0	0	25	20	23.3
178	0	0.034	0	5000	0	0	0	28.28	20	23.3
179	0	0.034	0	5000	0	0	0	31.72	20	23.3
180	0	0.034	0	5000	0	0	0	32.22	20	23.3
181	0	0.034	0	5000	0	0	0	33.28	20	23.3
182	0	0.034	0	5000	0	0	0	33.89	20	23.3
183	0	0.034	0	5000	0	0	0	34.39	20	23.3
184	0	0.034	0	5000	0	0	0	35	20	23.3
185	0	0.034	0	5000	0	0	0	35.61	20	23.3
186	0	0.034	0	5000	0	0	0	35	20	23.3
187	0	0.034	0	5000	0	0	0	33.89	20	23.3
188	0	0.034	0	5000	0	0	0	31.72	20	23.3
189	0	0.034	0	5000	0	0	0	30.61	20	23.3
190	0	0.034	0	5000	0	0	0	28.89	20	23.3
191	0	0.034	0	5000	0	0	0	25.61	20	23.3
192	0	0.034	0	5000	0	0	0	27.22	20	23.3

193	0	0.034	0	5000	0	0	0	22.22	20	23.3
194	0	0.034	0	5000	0	0	0	19.39	20	23.3
195	0	0.034	0	5000	0	0	0	20.61	20	23.3
196	0	0.034	0	5000	0	0	0	20	20	23.3
197	0	0.034	0	5000	0	0	0	18.89	20	23.3
198	0	0.034	0	5000	0	0	0	16.72	20	23.3
199	0	0.034	0	5000	0	0	0	19.39	20	23.3
200	0	0.034	0	5000	0	0	0	23.89	20	23.3
201	0	0.034	0	5000	0	0	0	26.72	20	23.3
202	0	0.034	0	5000	0	0	0	29.39	20	23.3
203	0	0.034	0	5000	0	0	0	32.22	20	23.3
204	0	0.034	0	5000	0	0	0	32.78	20	23.3
205	0	0.034	0	5000	0	0	0	33.28	20	23.3
206	0	0.034	0	5000	0	0	0	35	20	23.3
207	0	0.034	0	5000	0	0	0	36.72	20	23.3
208	0	0.034	0	5000	0	0	0	36.11	20	23.3
209	0	0.034	0	5000	0	0	0	36.11	20	23.3
210	0	0.034	0	5000	0	0	0	35.61	20	23.3
211	0	0.034	0	5000	0	0	0	33.89	20	23.3
212	0	0.034	0	5000	0	0	0	32.22	20	23.3
213	0	0.034	0	5000	0	0	0	30.61	20	23.3
214	0	0.034	0	5000	0	0	0	28.28	20	23.3
215	0	0.034	0	5000	0	0	0	24.39	20	23.3
216	0	0.034	0	5000	0	0	0	26.72	20	23.3
217	0	0.034	0	5000	0	0	0	24.39	20	23.3
218	0	0.034	0	5000	0	0	0	23.89	20	23.3
219	0	0.034	0	5000	0	0	0	21.11	20	23.3
220	0	0.034	0	5000	0	0	0	21.72	20	23.3
221	0	0.034	0	5000	0	0	0	20	20	23.3
222	0	0.034	0	5000	0	0	0	17.78	20	23.3
223	0	0.034	0	5000	0	0	0	19.39	20	23.3
224	0	0.034	0	5000	0	0	0	22.78	20	23.3
225	0	0.034	0	5000	0	0	0	26.11	20	23.3
226	0	0.034	0	5000	0	0	0	29.39	20	23.3

227	0	0.034	0	5000	0	0	0	32.22	20	23.3
228	0	0.034	0	5000	0	0	0	32.78	20	23.3
229	0	0.034	0	5000	0	0	0	33.89	20	23.3
230	0	0.034	0	5000	0	0	0	35	20	23.3
231	0	0.034	0	5000	0	0	0	35.61	20	23.3
232	0	0.034	0	5000	0	0	0	36.72	20	23.3
233	0	0.034	0	5000	0	0	0	37.22	20	23.3
234	0	0.034	0	5000	0	0	0	36.11	20	23.3
235	0	0.034	0	5000	0	0	0	35	20	23.3
236	0	0.034	0	5000	0	0	0	32.78	20	23.3
237	0	0.034	0	5000	0	0	0	30.61	20	23.3
238	0	0.034	0	5000	0	0	0	30	20	23.3
239	0	0.034	0	5000	0	0	0	27.22	20	23.3
240	0	0.034	0	5000	0	0	0	25	20	23.3
241	0	0.034	0	5000	0	0	0	25	20	23.3
242	0	0.034	0	5000	0	0	0	23.89	20	23.3
243	0	0.034	0	5000	0	0	0	22.22	20	23.3
244	0	0.034	0	5000	0	0	0	20	20	23.3
245	0	0.034	0	5000	0	0	0	20	20	23.3
246	0	0.034	0	5000	0	0	0	18.28	20	23.3
247	0	0.034	0	5000	0	0	0	20.61	20	23.3
248	0	0.034	0	5000	0	0	0	23.89	20	23.3
249	0	0.034	0	5000	0	0	0	27.22	20	23.3
250	0	0.034	0	5000	0	0	0	32.78	20	23.3
251	0	0.034	0	5000	0	0	0	33.28	20	23.3
252	0	0.034	0	5000	0	0	0	35.61	20	23.3
253	0	0.034	0	5000	0	0	0	35.61	20	23.3
254	0	0.034	0	5000	0	0	0	36.11	20	23.3
255	0	0.034	0	5000	0	0	0	36.72	20	23.3
256	0	0.034	0	5000	0	0	0	37.78	20	23.3
257	0	0.034	0	5000	0	0	0	37.78	20	23.3
258	0	0.034	0	5000	0	0	0	36.72	20	23.3
259	0	0.034	0	5000	0	0	0	35.61	20	23.3
260	0	0.034	0	5000	0	0	0	33.89	20	23.3

261	0	0.034	0	5000	0	0	0	32.78	20	23.3
262	0	0.034	0	5000	0	0	0	30	20	23.3
263	0	0.034	0	5000	0	0	0	29.39	20	23.3
264	0	0.034	0	5000	0	0	0	28.28	20	23.3
265	0	0.034	0	5000	0	0	0	27.78	20	23.3
266	0	0.034	0	5000	0	0	0	26.72	20	23.3
267	0	0.034	0	5000	0	0	0	24.39	20	23.3
268	0	0.034	0	5000	0	0	0	23.89	20	23.3
269	0	0.034	0	5000	0	0	0	22.22	20	23.3
270	0	0.034	0	5000	0	0	0	22.78	20	23.3
271	0	0.034	0	5000	0	0	0	24.39	20	23.3
272	0	0.034	0	5000	0	0	0	27.22	20	23.3
273	0	0.034	0	5000	0	0	0	30	20	23.3
274	0	0.034	0	5000	0	0	0	32.78	20	23.3
275	0	0.034	0	5000	0	0	0	33.89	20	23.3
276	0	0.034	0	5000	0	0	0	34.39	20	23.3
277	0	0.034	0	5000	0	0	0	35.61	20	23.3
278	0	0.034	0	5000	0	0	0	36.72	20	23.3
279	0	0.034	0	5000	0	0	0	37.22	20	23.3
280	0	0.034	0	5000	0	0	0	37.78	20	23.3
281	0	0.034	0	5000	0	0	0	37.78	20	23.3
282	0	0.034	0	5000	0	0	0	37.78	20	23.3
283	0	0.034	0	5000	0	0	0	36.72	20	23.3
284	0	0.034	0	5000	0	0	0	35	20	23.3
285	0	0.034	0	5000	0	0	0	33.89	20	23.3
286	0	0.034	0	5000	0	0	0	32.78	20	23.3
287	0	0.034	0	5000	0	0	0	31.11	20	23.3
288	0	0.034	0	5000	0	0	0	31.72	20	23.3
289	0	0.034	0	5000	0	0	0	27.78	20	23.3
290	0	0.034	0	5000	0	0	0	25	20	23.3
291	0	0.034	0	5000	0	0	0	25.61	20	23.3
292	0	0.034	0	5000	0	0	0	25.61	20	23.3
293	0	0.034	0	5000	0	0	0	23.89	20	23.3
294	0	0.034	0	5000	0	0	0	23.89	20	23.3

295	0	0.034	0	5000	0	0	0	23.89	20	23.3
296	0	0.034	0	5000	0	0	0	27.22	20	23.3
297	0	0.034	0	5000	0	0	0	30.61	20	23.3
298	0	0.034	0	5000	0	0	0	33.28	20	23.3
299	0	0.034	0	5000	0	0	0	35	20	23.3
300	0	0.034	0	5000	0	0	0	37.22	20	23.3
301	0	0.034	0	5000	0	0	0	38.28	20	23.3
302	0	0.034	0	5000	0	0	0	38.28	20	23.3
303	0	0.034	0	5000	0	0	0	38.28	20	23.3
304	0	0.034	0	5000	0	0	0	38.89	20	23.3
305	0	0.034	0	5000	0	0	0	38.89	20	23.3
306	0	0.034	0	5000	0	0	0	38.28	20	23.3
307	0	0.034	0	5000	0	0	0	37.22	20	23.3
308	0	0.034	0	5000	0	0	0	35	20	23.3
309	0	0.034	0	5000	0	0	0	34.39	20	23.3
310	0	0.034	0	5000	0	0	0	30.61	20	23.3
311	0	0.034	0	5000	0	0	0	30.61	20	23.3
312	0	0.034	0	5000	0	0	0	28.89	20	23.3
313	0	0.034	0	5000	0	0	0	26.72	20	23.3
314	0	0.034	0	5000	0	0	0	24.39	20	23.3
315	0	0.034	0	5000	0	0	0	25.61	20	23.3
316	0	0.034	0	5000	0	0	0	23.28	20	23.3
317	0	0.034	0	5000	0	0	0	21.72	20	23.3
318	0	0.034	0	5000	0	0	0	22.22	20	23.3
319	0	0.034	0	5000	0	0	0	23.28	20	23.3
320	0	0.034	0	5000	0	0	0	25.61	20	23.3
321	0	0.034	0	5000	0	0	0	32.22	20	23.3
322	0	0.034	0	5000	0	0	0	33.89	20	23.3
323	0	0.034	0	5000	0	0	0	36.11	20	23.3
324	0	0.034	0	5000	0	0	0	36.11	20	23.3
325	0	0.034	0	5000	0	0	0	36.72	20	23.3
326	0	0.034	0	5000	0	0	0	37.22	20	23.3
327	0	0.034	0	5000	0	0	0	37.78	20	23.3
328	0	0.034	0	5000	0	0	0	36.72	20	23.3

329	0	0.034	0	5000	0	0	0	37.22	20	23.3
330	0	0.034	0	5000	0	0	0	36.72	20	23.3
331	0	0.034	0	5000	0	0	0	35.61	20	23.3
332	0	0.034	0	5000	0	0	0	33.89	20	23.3
333	0	0.034	0	5000	0	0	0	32.22	20	23.3
334	0	0.034	0	5000	0	0	0	30.61	20	23.3
335	0	0.034	0	5000	0	0	0	28.89	20	23.3
336	0	0.034	0	5000	0	0	0	26.72	20	23.3
337	0	0.034	0	5000	0	0	0	25.61	20	23.3
338	0	0.034	0	5000	0	0	0	25	20	23.3
339	0	0.034	0	5000	0	0	0	24.39	20	23.3
340	0	0.034	0	5000	0	0	0	23.28	20	23.3
341	0	0.034	0	5000	0	0	0	23.28	20	23.3
342	0	0.034	0	5000	0	0	0	22.78	20	23.3
343	0	0.034	0	5000	0	0	0	22.22	20	23.3
344	0	0.034	0	5000	0	0	0	26.72	20	23.3
345	0	0.034	0	5000	0	0	0	28.89	20	23.3
346	0	0.034	0	5000	0	0	0	32.78	20	23.3
347	0	0.034	0	5000	0	0	0	34.39	20	23.3
348	0	0.034	0	5000	0	0	0	36.72	20	23.3
349	0	0.034	0	5000	0	0	0	36.72	20	23.3
350	0	0.034	0	5000	0	0	0	37.78	20	23.3
351	0	0.034	0	5000	0	0	0	36.72	20	23.3
352	0	0.034	0	5000	0	0	0	37.78	20	23.3
353	0	0.034	0	5000	0	0	0	37.78	20	23.3
354	0	0.034	0	5000	0	0	0	37.78	20	23.3
355	0	0.034	0	5000	0	0	0	36.72	20	23.3
356	0	0.034	0	5000	0	0	0	35	20	23.3
357	0	0.034	0	5000	0	0	0	33.28	20	23.3
358	0	0.034	0	5000	0	0	0	31.11	20	23.3
359	0	0.034	0	5000	0	0	0	30.61	20	23.3
360	0	0.034	0	5000	0	0	0	27.78	20	23.3
361	0	0.034	0	5000	0	0	0	27.78	20	23.3
362	0	0.034	0	5000	0	0	0	25.61	20	23.3

363	0	0.034	0	5000	0	0	0	23.28	20	23.3
364	0	0.034	0	5000	0	0	0	23.89	20	23.3
365	0	0.034	0	5000	0	0	0	24.39	20	23.3
366	0	0.034	0	5000	0	0	0	23.89	20	23.3
367	0	0.034	0	5000	0	0	0	23.89	20	23.3
368	0	0.034	0	5000	0	0	0	27.78	20	23.3
369	0	0.034	0	5000	0	0	0	31.11	20	23.3
370	0	0.034	0	5000	0	0	0	32.78	20	23.3
371	0	0.034	0	5000	0	0	0	36.11	20	23.3
372	0	0.034	0	5000	0	0	0	37.22	20	23.3
373	0	0.034	0	5000	0	0	0	36.11	20	23.3
374	0	0.034	0	5000	0	0	0	38.28	20	23.3
375	0	0.034	0	5000	0	0	0	37.78	20	23.3
376	0	0.034	0	5000	0	0	0	38.89	20	23.3
377	0	0.034	0	5000	0	0	0	38.28	20	23.3
378	0	0.034	0	5000	0	0	0	36.11	20	23.3
379	0	0.034	0	5000	0	0	0	36.72	20	23.3
380	0	0.034	0	5000	0	0	0	35	20	23.3
381	0	0.034	0	5000	0	0	0	33.89	20	23.3
382	0	0.034	0	5000	0	0	0	31.72	20	23.3
383	0	0.034	0	5000	0	0	0	30	20	23.3
384	0	0.034	0	5000	0	0	0	28.89	20	23.3
385	0	0.034	0	5000	0	0	0	29.39	20	23.3
386	0	0.034	0	5000	0	0	0	27.22	20	23.3
387	0	0.034	0	5000	0	0	0	26.11	20	23.3
388	0	0.034	0	5000	0	0	0	25	20	23.3
389	0	0.034	0	5000	0	0	0	25	20	23.3
390	0	0.034	0	5000	0	0	0	25	20	23.3
391	0	0.034	0	5000	0	0	0	24.39	20	23.3
392	0	0.034	0	5000	0	0	0	27.78	20	23.3
393	0	0.034	0	5000	0	0	0	32.78	20	23.3
394	0	0.034	0	5000	0	0	0	33.89	20	23.3
395	0	0.034	0	5000	0	0	0	35.61	20	23.3
396	0	0.034	0	5000	0	0	0	36.11	20	23.3

397	0	0.034	0	5000	0	0	0	35.61	20	23.3
398	0	0.034	0	5000	0	0	0	37.78	20	23.3
399	0	0.034	0	5000	0	0	0	38.28	20	23.3
400	0	0.034	0	5000	0	0	0	37.22	20	23.3
401	0	0.034	0	5000	0	0	0	36.72	20	23.3
402	0	0.034	0	5000	0	0	0	36.11	20	23.3
403	0	0.034	0	5000	0	0	0	32.78	20	23.3
404	0	0.034	0	5000	0	0	0	30	20	23.3
405	0	0.034	0	5000	0	0	0	28.28	20	23.3
406	0	0.034	0	5000	0	0	0	28.28	20	23.3
407	0	0.034	0	5000	0	0	0	29.39	20	23.3
408	0	0.034	0	5000	0	0	0	28.89	20	23.3
409	0	0.034	0	5000	0	0	0	28.89	20	23.3
410	0	0.034	0	5000	0	0	0	27.78	20	23.3
411	0	0.034	0	5000	0	0	0	28.28	20	23.3
412	0	0.034	0	5000	0	0	0	26.72	20	23.3
413	0	0.034	0	5000	0	0	0	26.72	20	23.3
414	0	0.034	0	5000	0	0	0	26.11	20	23.3
415	0	0.034	0	5000	0	0	0	26.11	20	23.3
416	0	0.034	0	5000	0	0	0	28.28	20	23.3
417	0	0.034	0	5000	0	0	0	31.11	20	23.3
418	0	0.034	0	5000	0	0	0	32.78	20	23.3
419	0	0.034	0	5000	0	0	0	33.89	20	23.3
420	0	0.034	0	5000	0	0	0	35.61	20	23.3
421	0	0.034	0	5000	0	0	0	35.61	20	23.3
422	0	0.034	0	5000	0	0	0	36.72	20	23.3
423	0	0.034	0	5000	0	0	0	37.78	20	23.3
424	0	0.034	0	5000	0	0	0	37.78	20	23.3
425	0	0.034	0	5000	0	0	0	37.78	20	23.3
426	0	0.034	0	5000	0	0	0	36.72	20	23.3
427	0	0.034	0	5000	0	0	0	35	20	23.3
428	0	0.034	0	5000	0	0	0	33.89	20	23.3
429	0	0.034	0	5000	0	0	0	33.28	20	23.3
430	0	0.034	0	5000	0	0	0	32.78	20	23.3

431	0	0.034	0	5000	0	0	0	30	20	23.3
432	0	0.034	0	5000	0	0	0	31.11	20	23.3
433	0	0.034	0	5000	0	0	0	30	20	23.3
434	0	0.034	0	5000	0	0	0	28.28	20	23.3
435	0	0.034	0	5000	0	0	0	30	20	23.3
436	0	0.034	0	5000	0	0	0	27.78	20	23.3
437	0	0.034	0	5000	0	0	0	27.78	20	23.3
438	0	0.034	0	5000	0	0	0	29.39	20	23.3
439	0	0.034	0	5000	0	0	0	26.72	20	23.3
440	0	0.034	0	5000	0	0	0	29.39	20	23.3
441	0	0.034	0	5000	0	0	0	31.11	20	23.3
442	0	0.034	0	5000	0	0	0	33.89	20	23.3
443	0	0.034	0	5000	0	0	0	35	20	23.3
444	0	0.034	0	5000	0	0	0	36.11	20	23.3
445	0	0.034	0	5000	0	0	0	36.72	20	23.3
446	0	0.034	0	5000	0	0	0	37.78	20	23.3
447	0	0.034	0	5000	0	0	0	37.22	20	23.3
448	0	0.034	0	5000	0	0	0	37.22	20	23.3
449	0	0.034	0	5000	0	0	0	37.22	20	23.3
450	0	0.034	0	5000	0	0	0	36.11	20	23.3
451	0	0.034	0	5000	0	0	0	35	20	23.3
452	0	0.034	0	5000	0	0	0	33.28	20	23.3
453	0	0.034	0	5000	0	0	0	32.78	20	23.3
454	0	0.034	0	5000	0	0	0	29.39	20	23.3
455	0	0.034	0	5000	0	0	0	28.89	20	23.3
456	0	0.034	0	5000	0	0	0	27.22	20	23.3
457	0	0.034	0	5000	0	0	0	23.89	20	23.3
458	0	0.034	0	5000	0	0	0	25	20	23.3
459	0	0.034	0	5000	0	0	0	21.72	20	23.3
460	0	0.034	0	5000	0	0	0	21.11	20	23.3
461	0	0.034	0	5000	0	0	0	18.89	20	23.3
462	0	0.034	0	5000	0	0	0	19.39	20	23.3
463	0	0.034	0	5000	0	0	0	20	20	23.3
464	0	0.034	0	5000	0	0	0	23.89	20	23.3

465	0	0.034	0	5000	0	0	0	28.28	20	23.3
466	0	0.034	0	5000	0	0	0	29.39	20	23.3
467	0	0.034	0	5000	0	0	0	31.11	20	23.3
468	0	0.034	0	5000	0	0	0	32.78	20	23.3
469	0	0.034	0	5000	0	0	0	33.28	20	23.3
470	0	0.034	0	5000	0	0	0	35	20	23.3
471	0	0.034	0	5000	0	0	0	36.11	20	23.3
472	0	0.034	0	5000	0	0	0	36.72	20	23.3
473	0	0.034	0	5000	0	0	0	36.72	20	23.3
474	0	0.034	0	5000	0	0	0	36.72	20	23.3
475	0	0.034	0	5000	0	0	0	35.61	20	23.3
476	0	0.034	0	5000	0	0	0	31.72	20	23.3
477	0	0.034	0	5000	0	0	0	30.61	20	23.3
478	0	0.034	0	5000	0	0	0	26.11	20	23.3
479	0	0.034	0	5000	0	0	0	25.61	20	23.3
480	0	0.034	0	5000	0	0	0	21.11	20	23.3
481	0	0.034	0	5000	0	0	0	21.72	20	23.3
482	0	0.034	0	5000	0	0	0	20	20	23.3
483	0	0.034	0	5000	0	0	0	17.22	20	23.3
484	0	0.034	0	5000	0	0	0	17.78	20	23.3
485	0	0.034	0	5000	0	0	0	17.22	20	23.3
486	0	0.034	0	5000	0	0	0	17.22	20	23.3
487	0	0.034	0	5000	0	0	0	18.28	20	23.3
488	0	0.034	0	5000	0	0	0	22.78	20	23.3
489	0	0.034	0	5000	0	0	0	26.11	20	23.3
490	0	0.034	0	5000	0	0	0	30.61	20	23.3
491	0	0.034	0	5000	0	0	0	33.28	20	23.3
492	0	0.034	0	5000	0	0	0	34.39	20	23.3
493	0	0.034	0	5000	0	0	0	35.61	20	23.3
494	0	0.034	0	5000	0	0	0	37.78	20	23.3
495	0	0.034	0	5000	0	0	0	38.28	20	23.3
496	0	0.034	0	5000	0	0	0	38.28	20	23.3
497	0	0.034	0	5000	0	0	0	38.89	20	23.3
498	0	0.034	0	5000	0	0	0	37.78	20	23.3

499	0	0.034	0	5000	0	0	0	36.72	20	23.3
500	0	0.034	0	5000	0	0	0	34.39	20	23.3
501	0	0.034	0	5000	0	0	0	31.11	20	23.3
502	0	0.034	0	5000	0	0	0	29.39	20	23.3
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510	0	0.034	0	5000	0	0	0	18.89	20	23.3
511	0	0.034	0	5000	0	0	0	18.89	20	23.3
512	0	0.034	0	5000	0	0	0	25	20	23.3
513	0	0.034	0	5000	0	0	0	27.22	20	23.3
514	0	0.034	0	5000	0	0	0	31.11	20	23.3
515	0	0.034	0	5000	0	0	0	33.89	20	23.3
516	0	0.034	0	5000	0	0	0	35	20	23.3
517	0	0.034	0	5000	0	0	0	36.72	20	23.3
518	0	0.034	0	5000	0	0	0	38.28	20	23.3
519	0	0.034	0	5000	0	0	0	37.78	20	23.3
520	0	0.034	0	5000	0	0	0	38.28	20	23.3
521	0	0.034	0	5000	0	0	0	38.89	20	23.3
522	0	0.034	0	5000	0	0	0	37.78	20	23.3
523	0	0.034	0	5000	0	0	0	36.72	20	23.3
524	0	0.034	0	5000	0	0	0	35	20	23.3
525	0	0.034	0	5000	0	0	0	31.11	20	23.3
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531	0	0.034	0	5000	0	0	0	23.89	20	23.3
532	0	0.034	0	5000	0	0	0	20.61	20	23.3

533	0	0.034	0	5000	0	0	0	21.11	20	23.3
534	0	0.034	0	5000	0	0	0	21.72	20	23.3
535	0	0.034	0	5000	0	0	0	21.11	20	23.3
536	0	0.034	0	5000	0	0	0	26.11	20	23.3
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546	0	0.034	0	5000	0	0	0	37.22	20	23.3
547	0	0.034	0	5000	0	0	0	36.11	20	23.3
548	0	0.034	0	5000	0	0	0	33.89	20	23.3
549	0	0.034	0	5000	0	0	0	33.28	20	23.3
550	0	0.034	0	5000	0	0	0	30	20	23.3
551	0	0.034	0	5000	0	0	0	28.28	20	23.3
552	0	0.034	0	5000	0	0	0	24.39	20	23.3
553	0	0.034	0	5000	0	0	0	24.39	20	23.3
554	0	0.034	0	5000	0	0	0	25	20	23.3
555	0	0.034	0	5000	0	0	0	22.22	20	23.3
556	0	0.034	0	5000	0	0	0	21.72	20	23.3
557	0	0.034	0	5000	0	0	0	20	20	23.3
558	0	0.034	0	5000	0	0	0	18.89	20	23.3
559	0	0.034	0	5000	0	0	0	20	20	23.3
560	0	0.034	0	5000	0	0	0	25	20	23.3
561	0	0.034	0	5000	0	0	0	28.89	20	23.3
562	0	0.034	0	5000	0	0	0	31.72	20	23.3
563	0	0.034	0	5000	0	0	0	33.89	20	23.3
564	0	0.034	0	5000	0	0	0	35.61	20	23.3
565	0	0.034	0	5000	0	0	0	37.22	20	23.3
566	0	0.034	0	5000	0	0	0	37.22	20	23.3

567	0	0.034	0	5000	0	0	0	37.22	20	23.3
568	0	0.034	0	5000	0	0	0	38.28	20	23.3
569	0	0.034	0	5000	0	0	0	38.28	20	23.3
570	0	0.034	0	5000	0	0	0	37.78	20	23.3
571	0	0.034	0	5000	0	0	0	36.72	20	23.3
572	0	0.034	0	5000	0	0	0	33.28	20	23.3
573	0	0.034	0	5000	0	0	0	32.22	20	23.3
574	0	0.034	0	5000	0	0	0	30	20	23.3
575	0	0.034	0	5000	0	0	0	27.78	20	23.3
576	0	0.034	0	5000	0	0	0	27.22	20	23.3
577	0	0.034	0	5000	0	0	0	25.61	20	23.3
578	0	0.034	0	5000	0	0	0	27.22	20	23.3
579	0	0.034	0	5000	0	0	0	23.89	20	23.3
580	0	0.034	0	5000	0	0	0	21.72	20	23.3
581	0	0.034	0	5000	0	0	0	22.22	20	23.3
582	0	0.034	0	5000	0	0	0	21.11	20	23.3
583	0	0.034	0	5000	0	0	0	23.28	20	23.3
584	0	0.034	0	5000	0	0	0	26.11	20	23.3
585	0	0.034	0	5000	0	0	0	29.39	20	23.3
586	0	0.034	0	5000	0	0	0	33.89	20	23.3
587	0	0.034	0	5000	0	0	0	35	20	23.3
588	0	0.034	0	5000	0	0	0	36.11	20	23.3
589	0	0.034	0	5000	0	0	0	36.72	20	23.3
590	0	0.034	0	5000	0	0	0	37.78	20	23.3
591	0	0.034	0	5000	0	0	0	35.61	20	23.3
592	0	0.034	0	5000	0	0	0	34.39	20	23.3
593	0	0.034	0	5000	0	0	0	30	20	23.3
594	0	0.034	0	5000	0	0	0	32.22	20	23.3
595	0	0.034	0	5000	0	0	0	31.72	20	23.3
596	0	0.034	0	5000	0	0	0	30	20	23.3
597	0	0.034	0	5000	0	0	0	28.89	20	23.3
598	0	0.034	0	5000	0	0	0	28.89	20	23.3
599	0	0.034	0	5000	0	0	0	25.61	20	23.3
600	0	0.034	0	5000	0	0	0	26.11	20	23.3

601	0	0.034	0	5000	0	0	0	26.11	20	23.3
602	0	0.034	0	5000	0	0	0	23.28	20	23.3
603	0	0.034	0	5000	0	0	0	23.89	20	23.3
604	0	0.034	0	5000	0	0	0	21.72	20	23.3
605	0	0.034	0	5000	0	0	0	21.72	20	23.3
606	0	0.034	0	5000	0	0	0	21.11	20	23.3
607	0	0.034	0	5000	0	0	0	22.22	20	23.3
608	0	0.034	0	5000	0	0	0	23.89	20	23.3
609	0	0.034	0	5000	0	0	0	28.28	20	23.3
610	0	0.034	0	5000	0	0	0	30.61	20	23.3
611	0	0.034	0	5000	0	0	0	31.11	20	23.3
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613	0	0.034	0	5000	0	0	0	32.78	20	23.3
614	0	0.034	0	5000	0	0	0	31.11	20	23.3
615	0	0.034	0	5000	0	0	0	31.11	20	23.3
616	0	0.034	0	5000	0	0	0	28.89	20	23.3
617	0	0.034	0	5000	0	0	0	29.39	20	23.3
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620	0	0.034	0	5000	0	0	0	27.78	20	23.3
621	0	0.034	0	5000	0	0	0	25.61	20	23.3
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623	0	0.034	0	5000	0	0	0	25.61	20	23.3
624	0	0.034	0	5000	0	0	0	25	20	23.3
625	0	0.034	0	5000	0	0	0	24.39	20	23.3
626	0	0.034	0	5000	0	0	0	22.78	20	23.3
627	0	0.034	0	5000	0	0	0	23.28	20	23.3
628	0	0.034	0	5000	0	0	0	23.28	20	23.3
629	0	0.034	0	5000	0	0	0	23.89	20	23.3
630	0	0.034	0	5000	0	0	0	22.78	20	23.3
631	0	0.034	0	5000	0	0	0	21.72	20	23.3
632	0	0.034	0	5000	0	0	0	23.28	20	23.3
633	0	0.034	0	5000	0	0	0	23.89	20	23.3
634	0	0.034	0	5000	0	0	0	25.61	20	23.3

635	0	0.034	0	5000	0	0	0	27.78	20	23.3
636	0	0.034	0	5000	0	0	0	28.28	20	23.3
637	0	0.034	0	5000	0	0	0	30.61	20	23.3
638	0	0.034	0	5000	0	0	0	31.11	20	23.3
639	0	0.034	0	5000	0	0	0	31.72	20	23.3
640	0	0.034	0	5000	0	0	0	32.22	20	23.3
641	0	0.034	0	5000	0	0	0	31.72	20	23.3
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645	0	0.034	0	5000	0	0	0	28.28	20	23.3
646	0	0.034	0	5000	0	0	0	27.22	20	23.3
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648	0	0.034	0	5000	0	0	0	26.11	20	23.3
649	0	0.034	0	5000	0	0	0	25.61	20	23.3
650	0	0.034	0	5000	0	0	0	22.22	20	23.3
651	0	0.034	0	5000	0	0	0	23.28	20	23.3
652	0	0.034	0	5000	0	0	0	21.72	20	23.3
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654	0	0.034	0	5000	0	0	0	21.72	20	23.3
655	0	0.034	0	5000	0	0	0	21.72	20	23.3
656	0	0.034	0	5000	0	0	0	25	20	23.3
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661	0	0.034	0	5000	0	0	0	32.78	20	23.3
662	0	0.034	0	5000	0	0	0	33.89	20	23.3
663	0	0.034	0	5000	0	0	0	35	20	23.3
664	0	0.034	0	5000	0	0	0	36.11	20	23.3
665	0	0.034	0	5000	0	0	0	35.61	20	23.3
666	0	0.034	0	5000	0	0	0	35	20	23.3
667	0	0.034	0	5000	0	0	0	34.39	20	23.3
668	0	0.034	0	5000	0	0	0	33.28	20	23.3

669	0	0.034	0	5000	0	0	0	32.22	20	23.3
670	0	0.034	0	5000	0	0	0	31.11	20	23.3
671	0	0.034	0	5000	0	0	0	27.78	20	23.3
672	0	0.034	0	5000	0	0	0	28.89	20	23.3
673	0	0.034	0	5000	0	0	0	29.39	20	23.3
674	0	0.034	0	5000	0	0	0	27.78	20	23.3
675	0	0.034	0	5000	0	0	0	24.39	20	23.3
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679	0	0.034	0	5000	0	0	0	22.78	20	23.3
680	0	0.034	0	5000	0	0	0	26.11	20	23.3
681	0	0.034	0	5000	0	0	0	28.89	20	23.3
682	0	0.034	0	5000	0	0	0	31.11	20	23.3
683	0	0.034	0	5000	0	0	0	33.28	20	23.3
684	0	0.034	0	5000	0	0	0	35	20	23.3
685	0	0.034	0	5000	0	0	0	36.72	20	23.3
686	0	0.034	0	5000	0	0	0	37.22	20	23.3
687	0	0.034	0	5000	0	0	0	37.22	20	23.3
688	0	0.034	0	5000	0	0	0	37.78	20	23.3
689	0	0.034	0	5000	0	0	0	37.22	20	23.3
690	0	0.034	0	5000	0	0	0	37.22	20	23.3
691	0	0.034	0	5000	0	0	0	36.11	20	23.3
692	0	0.034	0	5000	0	0	0	34.39	20	23.3
693	0	0.034	0	5000	0	0	0	33.28	20	23.3
694	0	0.034	0	5000	0	0	0	30.61	20	23.3
695	0	0.034	0	5000	0	0	0	31.11	20	23.3
696	0	0.034	0	5000	0	0	0	28.28	20	23.3
697	0	0.034	0	5000	0	0	0	26.11	20	23.3
698	0	0.034	0	5000	0	0	0	27.78	20	23.3
699	0	0.034	0	5000	0	0	0	24.39	20	23.3
700	0	0.034	0	5000	0	0	0	25.61	20	23.3
701	0	0.034	0	5000	0	0	0	24.39	20	23.3
702	0	0.034	0	5000	0	0	0	23.89	20	23.3

703	0	0.034	0	5000	0	0	0	25	20	23.3
704	0	0.034	0	5000	0	0	0	27.22	20	23.3
705	0	0.034	0	5000	0	0	0	30.61	20	23.3
706	0	0.034	0	5000	0	0	0	32.78	20	23.3
707	0	0.034	0	5000	0	0	0	33.89	20	23.3
708	0	0.034	0	5000	0	0	0	33.28	20	23.3
709	0	0.034	0	5000	0	0	0	33.89	20	23.3
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711	0	0.034	0	5000	0	0	0	32.22	20	23.3
712	0	0.034	0	5000	0	0	0	31.72	20	23.3
713	0	0.034	0	5000	0	0	0	31.72	20	23.3
714	0	0.034	0	5000	0	0	0	32.22	20	23.3
715	0	0.034	0	5000	0	0	0	31.72	20	23.3
716	0	0.034	0	5000	0	0	0	30	20	23.3
717	0	0.034	0	5000	0	0	0	28.89	20	23.3
718	0	0.034	0	5000	0	0	0	28.28	20	23.3
719	0	0.034	0	5000	0	0	0	27.78	20	23.3
720	0	0.034	0	5000	0	0	0	27.22	20	23.3

Qf3

Pcp_File_Version=4

*** BLOCK I: ATMOSPHERIC INFORMATION *****

MaxAL (MaxAL = number of atmospheric data-records)

720

DailyVar SinusVar IDummy IDummy IDummy IDummy IDummy IDummy IDummy IDummy IDummy

f f f f f t f f f f

hCritS (max. allowed pressure head at the soil surface)

0

tAtm	Prec	rSoil	rRoot	hCritA	rB	hB	ht	tTop	tBot	Ampl	RootDepth
1	0	0.034	0	5000	0	0	26.72	20	23.3		
2	0	0.034	0	5000	0	0	26.72	20	23.3		
3	0	0.034	0	5000	0	0	26.72	20	23.3		
4	0	0.034	0	5000	0	0	25.61	20	23.3		
5	0	0.034	0	5000	0	0	24.39	20	23.3		
6	0	0.034	0	5000	0	0	23.89	20	23.3		
7	0	0.034	0	5000	0	0	23.89	20	23.3		
8	0	0.034	0	5000	0	0	23.28	20	23.3		
9	0	0.034	0	5000	0	0	25	20	23.3		
10	0	0.034	0	5000	0	0	23.89	20	23.3		
11	0	0.034	0	5000	0	0	21.72	20	23.3		
12	0	0.034	0	5000	0	0	21.11	20	23.3		
13	0	0.034	0	5000	0	0	21.72	20	23.3		
14	0	0.034	0	5000	0	0	22.78	20	23.3		
15	0	0.034	0	5000	0	0	23.89	20	23.3		
16	0	0.034	0	5000	0	0	25.61	20	23.3		
17	0	0.034	0	5000	0	0	24.39	20	23.3		
18	0	0.034	0	5000	0	0	22.78	20	23.3		
19	0	0.034	0	5000	0	0	22.78	20	23.3		
20	0	0.034	0	5000	0	0	22.22	20	23.3		
21	0	0.034	0	5000	0	0	22.78	20	23.3		
22	0	0.034	0	5000	0	0	22.22	20	23.3		
23	0	0.034	0	5000	0	0	22.78	20	23.3		
24	0	0.034	0	5000	0	0	22.22	20	23.3		

167

25	0	0.034	0	5000	0	0	0	21.72	20	23.3
26	0	0.034	0	5000	0	0	0	22.22	20	23.3
27	0	0.034	0	5000	0	0	0	21.72	20	23.3
28	0	0.034	0	5000	0	0	0	21.72	20	23.3
29	0	0.034	0	5000	0	0	0	21.11	20	23.3
30	0	0.034	0	5000	0	0	0	21.11	20	23.3
31	0	0.034	0	5000	0	0	0	22.22	20	23.3
32	0	0.034	0	5000	0	0	0	23.89	20	23.3
33	0	0.034	0	5000	0	0	0	25	20	23.3
34	0	0.034	0	5000	0	0	0	26.11	20	23.3
35	0	0.034	0	5000	0	0	0	27.78	20	23.3
36	0	0.034	0	5000	0	0	0	29.39	20	23.3
37	0	0.034	0	5000	0	0	0	30.61	20	23.3
38	0	0.034	0	5000	0	0	0	31.11	20	23.3
39	0	0.034	0	5000	0	0	0	32.22	20	23.3
40	0	0.034	0	5000	0	0	0	31.72	20	23.3
41	0	0.034	0	5000	0	0	0	31.72	20	23.3
42	0	0.034	0	5000	0	0	0	32.22	20	23.3
43	0	0.034	0	5000	0	0	0	31.11	20	23.3
44	0	0.034	0	5000	0	0	0	23.28	20	23.3
45	0	0.034	0	5000	0	0	0	25.61	20	23.3
46	0	0.034	0	5000	0	0	0	23.89	20	23.3
47	0	0.034	0	5000	0	0	0	24.39	20	23.3
48	0	0.034	0	5000	0	0	0	23.28	20	23.3
49	0	0.034	0	5000	0	0	0	22.78	20	23.3
50	0	0.034	0	5000	0	0	0	22.78	20	23.3
51	0	0.034	0	5000	0	0	0	22.78	20	23.3
52	0	0.034	0	5000	0	0	0	21.11	20	23.3
53	0	0.034	0	5000	0	0	0	21.11	20	23.3
54	0	0.034	0	5000	0	0	0	20.61	20	23.3
55	0	0.034	0	5000	0	0	0	21.72	20	23.3
56	0	0.034	0	5000	0	0	0	24.39	20	23.3
57	0	0.034	0	5000	0	0	0	26.11	20	23.3
58	0	0.034	0	5000	0	0	0	28.89	20	23.3

59	0	0.034	0	5000	0	0	0	30.61	20	23.3
60	0	0.034	0	5000	0	0	0	32.22	20	23.3
61	0	0.034	0	5000	0	0	0	33.28	20	23.3
62	0	0.034	0	5000	0	0	0	33.89	20	23.3
63	0	0.034	0	5000	0	0	0	35.61	20	23.3
64	0	0.034	0	5000	0	0	0	36.11	20	23.3
65	0	0.034	0	5000	0	0	0	36.72	20	23.3
66	0	0.034	0	5000	0	0	0	36.11	20	23.3
67	0	0.034	0	5000	0	0	0	33.28	20	23.3
68	0	0.034	0	5000	0	0	0	31.72	20	23.3
69	0	0.034	0	5000	0	0	0	30.61	20	23.3
70	0	0.034	0	5000	0	0	0	28.28	20	23.3
71	0	0.034	0	5000	0	0	0	28.28	20	23.3
72	0	0.034	0	5000	0	0	0	26.11	20	23.3
73	0	0.034	0	5000	0	0	0	26.11	20	23.3
74	0	0.034	0	5000	0	0	0	25.61	20	23.3
75	0	0.034	0	5000	0	0	0	25	20	23.3
76	0	0.034	0	5000	0	0	0	23.28	20	23.3
77	0	0.034	0	5000	0	0	0	22.22	20	23.3
78	0	0.034	0	5000	0	0	0	20.61	20	23.3
79	0	0.034	0	5000	0	0	0	22.78	20	23.3
80	0	0.034	0	5000	0	0	0	26.72	20	23.3
81	0	0.034	0	5000	0	0	0	28.89	20	23.3
82	0	0.034	0	5000	0	0	0	32.22	20	23.3
83	0	0.034	0	5000	0	0	0	35	20	23.3
84	0	0.034	0	5000	0	0	0	35.61	20	23.3
85	0	0.034	0	5000	0	0	0	37.22	20	23.3
86	0	0.034	0	5000	0	0	0	37.22	20	23.3
87	0	0.034	0	5000	0	0	0	36.72	20	23.3
88	0	0.034	0	5000	0	0	0	37.22	20	23.3
89	0	0.034	0	5000	0	0	0	37.78	20	23.3
90	0	0.034	0	5000	0	0	0	37.22	20	23.3
91	0	0.034	0	5000	0	0	0	36.72	20	23.3
92	0	0.034	0	5000	0	0	0	35.61	20	23.3

93	0	0.034	0	5000	0	0	0	33.89	20	23.3
94	0	0.034	0	5000	0	0	0	32.22	20	23.3
95	0	0.034	0	5000	0	0	0	31.72	20	23.3
96	0	0.034	0	5000	0	0	0	31.72	20	23.3
97	0	0.034	0	5000	0	0	0	31.11	20	23.3
98	0	0.034	0	5000	0	0	0	28.89	20	23.3
99	0	0.034	0	5000	0	0	0	28.28	20	23.3
100	0	0.034	0	5000	0	0	0	27.22	20	23.3
101	0	0.034	0	5000	0	0	0	25.61	20	23.3
102	0	0.034	0	5000	0	0	0	23.89	20	23.3
103	0	0.034	0	5000	0	0	0	26.11	20	23.3
104	0	0.034	0	5000	0	0	0	28.28	20	23.3
105	0	0.034	0	5000	0	0	0	31.11	20	23.3
106	0	0.034	0	5000	0	0	0	33.89	20	23.3
107	0	0.034	0	5000	0	0	0	34.39	20	23.3
108	0	0.034	0	5000	0	0	0	35.61	20	23.3
109	0	0.034	0	5000	0	0	0	36.11	20	23.3
110	0	0.034	0	5000	0	0	0	35.61	20	23.3
111	0	0.034	0	5000	0	0	0	36.11	20	23.3
112	0	0.034	0	5000	0	0	0	36.72	20	23.3
113	0	0.034	0	5000	0	0	0	36.11	20	23.3
114	0	0.034	0	5000	0	0	0	35.61	20	23.3
115	0	0.034	0	5000	0	0	0	34.39	20	23.3
116	0	0.034	0	5000	0	0	0	32.78	20	23.3
117	0	0.034	0	5000	0	0	0	31.11	20	23.3
118	0	0.034	0	5000	0	0	0	30.61	20	23.3
119	0	0.034	0	5000	0	0	0	30	20	23.3
120	0	0.034	0	5000	0	0	0	28.89	20	23.3
121	0	0.034	0	5000	0	0	0	27.78	20	23.3
122	0	0.034	0	5000	0	0	0	25.61	20	23.3
123	0	0.034	0	5000	0	0	0	23.28	20	23.3
124	0	0.034	0	5000	0	0	0	23.89	20	23.3
125	0	0.034	0	5000	0	0	0	23.28	20	23.3
126	0	0.034	0	5000	0	0	0	22.78	20	23.3

127	0	0.034	0	5000	0	0	0	22.78	20	23.3
128	0	0.034	0	5000	0	0	0	24.39	20	23.3
129	0	0.034	0	5000	0	0	0	27.22	20	23.3
130	0	0.034	0	5000	0	0	0	29.39	20	23.3
131	0	0.034	0	5000	0	0	0	31.11	20	23.3
132	0	0.034	0	5000	0	0	0	32.22	20	23.3
133	0	0.034	0	5000	0	0	0	33.28	20	23.3
134	0	0.034	0	5000	0	0	0	33.89	20	23.3
135	0	0.034	0	5000	0	0	0	33.89	20	23.3
136	0	0.034	0	5000	0	0	0	33.89	20	23.3
137	0	0.034	0	5000	0	0	0	33.89	20	23.3
138	0	0.034	0	5000	0	0	0	33.89	20	23.3
139	0	0.034	0	5000	0	0	0	32.78	20	23.3
140	0	0.034	0	5000	0	0	0	30.61	20	23.3
141	0	0.034	0	5000	0	0	0	28.89	20	23.3
142	0	0.034	0	5000	0	0	0	25.61	20	23.3
143	0	0.034	0	5000	0	0	0	22.78	20	23.3
144	0	0.034	0	5000	0	0	0	22.78	20	23.3
145	0	0.034	0	5000	0	0	0	22.78	20	23.3
146	0	0.034	0	5000	0	0	0	21.11	20	23.3
147	0	0.034	0	5000	0	0	0	20.61	20	23.3
148	0	0.034	0	5000	0	0	0	18.28	20	23.3
149	0	0.034	0	5000	0	0	0	16.72	20	23.3
150	0	0.034	0	5000	0	0	0	16.72	20	23.3
151	0	0.034	0	5000	0	0	0	17.78	20	23.3
152	0	0.034	0	5000	0	0	0	21.72	20	23.3
153	0	0.034	0	5000	0	0	0	24.39	20	23.3
154	0	0.034	0	5000	0	0	0	26.11	20	23.3
155	0	0.034	0	5000	0	0	0	28.28	20	23.3
156	0	0.034	0	5000	0	0	0	28.89	20	23.3
157	0	0.034	0	5000	0	0	0	31.11	20	23.3
158	0	0.034	0	5000	0	0	0	32.78	20	23.3
159	0	0.034	0	5000	0	0	0	33.89	20	23.3
160	0	0.034	0	5000	0	0	0	33.89	20	23.3

161	0	0.034	0	5000	0	0	0	33.89	20	23.3
162	0	0.034	0	5000	0	0	0	33.89	20	23.3
163	0	0.034	0	5000	0	0	0	32.78	20	23.3
164	0	0.034	0	5000	0	0	0	30.61	20	23.3
165	0	0.034	0	5000	0	0	0	29.39	20	23.3
166	0	0.034	0	5000	0	0	0	26.72	20	23.3
167	0	0.034	0	5000	0	0	0	26.72	20	23.3
168	0	0.034	0	5000	0	0	0	23.28	20	23.3
169	0	0.034	0	5000	0	0	0	23.89	20	23.3
170	0	0.034	0	5000	0	0	0	19.39	20	23.3
171	0	0.034	0	5000	0	0	0	17.78	20	23.3
172	0	0.034	0	5000	0	0	0	19.39	20	23.3
173	0	0.034	0	5000	0	0	0	17.22	20	23.3
174	0	0.034	0	5000	0	0	0	15.61	20	23.3
175	0	0.034	0	5000	0	0	0	17.78	20	23.3
176	0	0.034	0	5000	0	0	0	22.22	20	23.3
177	0	0.034	0	5000	0	0	0	25	20	23.3
178	0	0.034	0	5000	0	0	0	28.28	20	23.3
179	0	0.034	0	5000	0	0	0	31.72	20	23.3
180	0	0.034	0	5000	0	0	0	32.22	20	23.3
181	0	0.034	0	5000	0	0	0	33.28	20	23.3
182	0	0.034	0	5000	0	0	0	33.89	20	23.3
183	0	0.034	0	5000	0	0	0	34.39	20	23.3
184	0	0.034	0	5000	0	0	0	35	20	23.3
185	0	0.034	0	5000	0	0	0	35.61	20	23.3
186	0	0.034	0	5000	0	0	0	35	20	23.3
187	0	0.034	0	5000	0	0	0	33.89	20	23.3
188	0	0.034	0	5000	0	0	0	31.72	20	23.3
189	0	0.034	0	5000	0	0	0	30.61	20	23.3
190	0	0.034	0	5000	0	0	0	28.89	20	23.3
191	0	0.034	0	5000	0	0	0	25.61	20	23.3
192	0	0.034	0	5000	0	0	0	27.22	20	23.3
193	0	0.034	0	5000	0	0	0	22.22	20	23.3
194	0	0.034	0	5000	0	0	0	19.39	20	23.3

195	0	0.034	0	5000	0	0	0	20.61	20	23.3
196	0	0.034	0	5000	0	0	0	20	20	23.3
197	0	0.034	0	5000	0	0	0	18.89	20	23.3
198	0	0.034	0	5000	0	0	0	16.72	20	23.3
199	0	0.034	0	5000	0	0	0	19.39	20	23.3
200	0	0.034	0	5000	0	0	0	23.89	20	23.3
201	0	0.034	0	5000	0	0	0	26.72	20	23.3
202	0	0.034	0	5000	0	0	0	29.39	20	23.3
203	0	0.034	0	5000	0	0	0	32.22	20	23.3
204	0	0.034	0	5000	0	0	0	32.78	20	23.3
205	0	0.034	0	5000	0	0	0	33.28	20	23.3
206	0	0.034	0	5000	0	0	0	35	20	23.3
207	0	0.034	0	5000	0	0	0	36.72	20	23.3
208	0	0.034	0	5000	0	0	0	36.11	20	23.3
209	0	0.034	0	5000	0	0	0	36.11	20	23.3
210	0	0.034	0	5000	0	0	0	35.61	20	23.3
211	0	0.034	0	5000	0	0	0	33.89	20	23.3
212	0	0.034	0	5000	0	0	0	32.22	20	23.3
213	0	0.034	0	5000	0	0	0	30.61	20	23.3
214	0	0.034	0	5000	0	0	0	28.28	20	23.3
215	0	0.034	0	5000	0	0	0	24.39	20	23.3
216	0	0.034	0	5000	0	0	0	26.72	20	23.3
217	0	0.034	0	5000	0	0	0	24.39	20	23.3
218	0	0.034	0	5000	0	0	0	23.89	20	23.3
219	0	0.034	0	5000	0	0	0	21.11	20	23.3
220	0	0.034	0	5000	0	0	0	21.72	20	23.3
221	0	0.034	0	5000	0	0	0	20	20	23.3
222	0	0.034	0	5000	0	0	0	17.78	20	23.3
223	0	0.034	0	5000	0	0	0	19.39	20	23.3
224	0	0.034	0	5000	0	0	0	22.78	20	23.3
225	0	0.034	0	5000	0	0	0	26.11	20	23.3
226	0	0.034	0	5000	0	0	0	29.39	20	23.3
227	0	0.034	0	5000	0	0	0	32.22	20	23.3
228	0	0.034	0	5000	0	0	0	32.78	20	23.3

229	0	0.034	0	5000	0	0	0	33.89	20	23.3
230	0	0.034	0	5000	0	0	0	35	20	23.3
231	0	0.034	0	5000	0	0	0	35.61	20	23.3
232	0	0.034	0	5000	0	0	0	36.72	20	23.3
233	0	0.034	0	5000	0	0	0	37.22	20	23.3
234	0	0.034	0	5000	0	0	0	36.11	20	23.3
235	0	0.034	0	5000	0	0	0	35	20	23.3
236	0	0.034	0	5000	0	0	0	32.78	20	23.3
237	0	0.034	0	5000	0	0	0	30.61	20	23.3
238	0	0.034	0	5000	0	0	0	30	20	23.3
239	0	0.034	0	5000	0	0	0	27.22	20	23.3
240	0	0.034	0	5000	0	0	0	25	20	23.3
241	0	0.034	0	5000	0	0	0	25	20	23.3
242	0	0.034	0	5000	0	0	0	23.89	20	23.3
243	0	0.034	0	5000	0	0	0	22.22	20	23.3
244	0	0.034	0	5000	0	0	0	20	20	23.3
245	0	0.034	0	5000	0	0	0	20	20	23.3
246	0	0.034	0	5000	0	0	0	18.28	20	23.3
247	0	0.034	0	5000	0	0	0	20.61	20	23.3
248	0	0.034	0	5000	0	0	0	23.89	20	23.3
249	0	0.034	0	5000	0	0	0	27.22	20	23.3
250	0	0.034	0	5000	0	0	0	32.78	20	23.3
251	0	0.034	0	5000	0	0	0	33.28	20	23.3
252	0	0.034	0	5000	0	0	0	35.61	20	23.3
253	0	0.034	0	5000	0	0	0	35.61	20	23.3
254	0	0.034	0	5000	0	0	0	36.11	20	23.3
255	0	0.034	0	5000	0	0	0	36.72	20	23.3
256	0	0.034	0	5000	0	0	0	37.78	20	23.3
257	0	0.034	0	5000	0	0	0	37.78	20	23.3
258	0	0.034	0	5000	0	0	0	36.72	20	23.3
259	0	0.034	0	5000	0	0	0	35.61	20	23.3
260	0	0.034	0	5000	0	0	0	33.89	20	23.3
261	0	0.034	0	5000	0	0	0	32.78	20	23.3
262	0	0.034	0	5000	0	0	0	30	20	23.3

263	0	0.034	0	5000	0	0	0	29.39	20	23.3
264	0	0.034	0	5000	0	0	0	28.28	20	23.3
265	0	0.034	0	5000	0	0	0	27.78	20	23.3
266	0	0.034	0	5000	0	0	0	26.72	20	23.3
267	0	0.034	0	5000	0	0	0	24.39	20	23.3
268	0	0.034	0	5000	0	0	0	23.89	20	23.3
269	0	0.034	0	5000	0	0	0	22.22	20	23.3
270	0	0.034	0	5000	0	0	0	22.78	20	23.3
271	0	0.034	0	5000	0	0	0	24.39	20	23.3
272	0	0.034	0	5000	0	0	0	27.22	20	23.3
273	0	0.034	0	5000	0	0	0	30	20	23.3
274	0	0.034	0	5000	0	0	0	32.78	20	23.3
275	0	0.034	0	5000	0	0	0	33.89	20	23.3
276	0	0.034	0	5000	0	0	0	34.39	20	23.3
277	0	0.034	0	5000	0	0	0	35.61	20	23.3
278	0	0.034	0	5000	0	0	0	36.72	20	23.3
279	0	0.034	0	5000	0	0	0	37.22	20	23.3
280	0	0.034	0	5000	0	0	0	37.78	20	23.3
281	0	0.034	0	5000	0	0	0	37.78	20	23.3
282	0	0.034	0	5000	0	0	0	37.78	20	23.3
283	0	0.034	0	5000	0	0	0	36.72	20	23.3
284	0	0.034	0	5000	0	0	0	35	20	23.3
285	0	0.034	0	5000	0	0	0	33.89	20	23.3
286	0	0.034	0	5000	0	0	0	32.78	20	23.3
287	0	0.034	0	5000	0	0	0	31.11	20	23.3
288	0	0.034	0	5000	0	0	0	31.72	20	23.3
289	0	0.034	0	5000	0	0	0	27.78	20	23.3
290	0	0.034	0	5000	0	0	0	25	20	23.3
291	0	0.034	0	5000	0	0	0	25.61	20	23.3
292	0	0.034	0	5000	0	0	0	25.61	20	23.3
293	0	0.034	0	5000	0	0	0	23.89	20	23.3
294	0	0.034	0	5000	0	0	0	23.89	20	23.3
295	0	0.034	0	5000	0	0	0	23.89	20	23.3
296	0	0.034	0	5000	0	0	0	27.22	20	23.3

297	0	0.034	0	5000	0	0	0	30.61	20	23.3
298	0	0.034	0	5000	0	0	0	33.28	20	23.3
299	0	0.034	0	5000	0	0	0	35	20	23.3
300	0	0.034	0	5000	0	0	0	37.22	20	23.3
301	0	0.034	0	5000	0	0	0	38.28	20	23.3
302	0	0.034	0	5000	0	0	0	38.28	20	23.3
303	0	0.034	0	5000	0	0	0	38.28	20	23.3
304	0	0.034	0	5000	0	0	0	38.89	20	23.3
305	0	0.034	0	5000	0	0	0	38.89	20	23.3
306	0	0.034	0	5000	0	0	0	38.28	20	23.3
307	0	0.034	0	5000	0	0	0	37.22	20	23.3
308	0	0.034	0	5000	0	0	0	35	20	23.3
309	0	0.034	0	5000	0	0	0	34.39	20	23.3
310	0	0.034	0	5000	0	0	0	30.61	20	23.3
311	0	0.034	0	5000	0	0	0	30.61	20	23.3
312	0	0.034	0	5000	0	0	0	28.89	20	23.3
313	0	0.034	0	5000	0	0	0	26.72	20	23.3
314	0	0.034	0	5000	0	0	0	24.39	20	23.3
315	0	0.034	0	5000	0	0	0	25.61	20	23.3
316	0	0.034	0	5000	0	0	0	23.28	20	23.3
317	0	0.034	0	5000	0	0	0	21.72	20	23.3
318	0	0.034	0	5000	0	0	0	22.22	20	23.3
319	0	0.034	0	5000	0	0	0	23.28	20	23.3
320	0	0.034	0	5000	0	0	0	25.61	20	23.3
321	0	0.034	0	5000	0	0	0	32.22	20	23.3
322	0	0.034	0	5000	0	0	0	33.89	20	23.3
323	0	0.034	0	5000	0	0	0	36.11	20	23.3
324	0	0.034	0	5000	0	0	0	36.11	20	23.3
325	0	0.034	0	5000	0	0	0	36.72	20	23.3
326	0	0.034	0	5000	0	0	0	37.22	20	23.3
327	0	0.034	0	5000	0	0	0	37.78	20	23.3
328	0	0.034	0	5000	0	0	0	36.72	20	23.3
329	0	0.034	0	5000	0	0	0	37.22	20	23.3
330	0	0.034	0	5000	0	0	0	36.72	20	23.3

331	0	0.034	0	5000	0	0	0	35.61	20	23.3
332	0	0.034	0	5000	0	0	0	33.89	20	23.3
333	0	0.034	0	5000	0	0	0	32.22	20	23.3
334	0	0.034	0	5000	0	0	0	30.61	20	23.3
335	0	0.034	0	5000	0	0	0	28.89	20	23.3
336	0	0.034	0	5000	0	0	0	26.72	20	23.3
337	0	0.034	0	5000	0	0	0	25.61	20	23.3
338	0	0.034	0	5000	0	0	0	25	20	23.3
339	0	0.034	0	5000	0	0	0	24.39	20	23.3
340	0	0.034	0	5000	0	0	0	23.28	20	23.3
341	0	0.034	0	5000	0	0	0	23.28	20	23.3
342	0	0.034	0	5000	0	0	0	22.78	20	23.3
343	0	0.034	0	5000	0	0	0	22.22	20	23.3
344	0	0.034	0	5000	0	0	0	26.72	20	23.3
345	0	0.034	0	5000	0	0	0	28.89	20	23.3
346	0	0.034	0	5000	0	0	0	32.78	20	23.3
347	0	0.034	0	5000	0	0	0	34.39	20	23.3
348	0	0.034	0	5000	0	0	0	36.72	20	23.3
349	0	0.034	0	5000	0	0	0	36.72	20	23.3
350	0	0.034	0	5000	0	0	0	37.78	20	23.3
351	0	0.034	0	5000	0	0	0	36.72	20	23.3
352	0	0.034	0	5000	0	0	0	37.78	20	23.3
353	0	0.034	0	5000	0	0	0	37.78	20	23.3
354	0	0.034	0	5000	0	0	0	37.78	20	23.3
355	0	0.034	0	5000	0	0	0	36.72	20	23.3
356	0	0.034	0	5000	0	0	0	35	20	23.3
357	0	0.034	0	5000	0	0	0	33.28	20	23.3
358	0	0.034	0	5000	0	0	0	31.11	20	23.3
359	0	0.034	0	5000	0	0	0	30.61	20	23.3
360	0	0.034	0	5000	0	0	0	27.78	20	23.3
361	0	0.034	0	5000	0	0	0	27.78	20	23.3
362	0	0.034	0	5000	0	0	0	25.61	20	23.3
363	0	0.034	0	5000	0	0	0	23.28	20	23.3
364	0	0.034	0	5000	0	0	0	23.89	20	23.3

365	0	0.034	0	5000	0	0	0	24.39	20	23.3
366	0	0.034	0	5000	0	0	0	23.89	20	23.3
367	0	0.034	0	5000	0	0	0	23.89	20	23.3
368	0	0.034	0	5000	0	0	0	27.78	20	23.3
369	0	0.034	0	5000	0	0	0	31.11	20	23.3
370	0	0.034	0	5000	0	0	0	32.78	20	23.3
371	0	0.034	0	5000	0	0	0	36.11	20	23.3
372	0	0.034	0	5000	0	0	0	37.22	20	23.3
373	0	0.034	0	5000	0	0	0	36.11	20	23.3
374	0	0.034	0	5000	0	0	0	38.28	20	23.3
375	0	0.034	0	5000	0	0	0	37.78	20	23.3
376	0	0.034	0	5000	0	0	0	38.89	20	23.3
377	0	0.034	0	5000	0	0	0	38.28	20	23.3
378	0	0.034	0	5000	0	0	0	36.11	20	23.3
379	0	0.034	0	5000	0	0	0	36.72	20	23.3
380	0	0.034	0	5000	0	0	0	35	20	23.3
381	0	0.034	0	5000	0	0	0	33.89	20	23.3
382	0	0.034	0	5000	0	0	0	31.72	20	23.3
383	0	0.034	0	5000	0	0	0	30	20	23.3
384	0	0.034	0	5000	0	0	0	28.89	20	23.3
385	0	0.034	0	5000	0	0	0	29.39	20	23.3
386	0	0.034	0	5000	0	0	0	27.22	20	23.3
387	0	0.034	0	5000	0	0	0	26.11	20	23.3
388	0	0.034	0	5000	0	0	0	25	20	23.3
389	0	0.034	0	5000	0	0	0	25	20	23.3
390	0	0.034	0	5000	0	0	0	25	20	23.3
391	0	0.034	0	5000	0	0	0	24.39	20	23.3
392	0	0.034	0	5000	0	0	0	27.78	20	23.3
393	0	0.034	0	5000	0	0	0	32.78	20	23.3
394	0	0.034	0	5000	0	0	0	33.89	20	23.3
395	0	0.034	0	5000	0	0	0	35.61	20	23.3
396	0	0.034	0	5000	0	0	0	36.11	20	23.3
397	0	0.034	0	5000	0	0	0	35.61	20	23.3
398	0	0.034	0	5000	0	0	0	37.78	20	23.3

399	0	0.034	0	5000	0	0	0	38.28	20	23.3
400	0	0.034	0	5000	0	0	0	37.22	20	23.3
401	0	0.034	0	5000	0	0	0	36.72	20	23.3
402	0	0.034	0	5000	0	0	0	36.11	20	23.3
403	0	0.034	0	5000	0	0	0	32.78	20	23.3
404	0	0.034	0	5000	0	0	0	30	20	23.3
405	0	0.034	0	5000	0	0	0	28.28	20	23.3
406	0	0.034	0	5000	0	0	0	28.28	20	23.3
407	0	0.034	0	5000	0	0	0	29.39	20	23.3
408	0	0.034	0	5000	0	0	0	28.89	20	23.3
409	0	0.034	0	5000	0	0	0	28.89	20	23.3
410	0	0.034	0	5000	0	0	0	27.78	20	23.3
411	0	0.034	0	5000	0	0	0	28.28	20	23.3
412	0	0.034	0	5000	0	0	0	26.72	20	23.3
413	0	0.034	0	5000	0	0	0	26.72	20	23.3
414	0	0.034	0	5000	0	0	0	26.11	20	23.3
415	0	0.034	0	5000	0	0	0	26.11	20	23.3
416	0	0.034	0	5000	0	0	0	28.28	20	23.3
417	0	0.034	0	5000	0	0	0	31.11	20	23.3
418	0	0.034	0	5000	0	0	0	32.78	20	23.3
419	0	0.034	0	5000	0	0	0	33.89	20	23.3
420	0	0.034	0	5000	0	0	0	35.61	20	23.3
421	0	0.034	0	5000	0	0	0	35.61	20	23.3
422	0	0.034	0	5000	0	0	0	36.72	20	23.3
423	0	0.034	0	5000	0	0	0	37.78	20	23.3
424	0	0.034	0	5000	0	0	0	37.78	20	23.3
425	0	0.034	0	5000	0	0	0	37.78	20	23.3
426	0	0.034	0	5000	0	0	0	36.72	20	23.3
427	0	0.034	0	5000	0	0	0	35	20	23.3
428	0	0.034	0	5000	0	0	0	33.89	20	23.3
429	0	0.034	0	5000	0	0	0	33.28	20	23.3
430	0	0.034	0	5000	0	0	0	32.78	20	23.3
431	0	0.034	0	5000	0	0	0	30	20	23.3
432	0	0.034	0	5000	0	0	0	31.11	20	23.3

433	0	0.034	0	5000	0	0	0	30	20	23.3
434	0	0.034	0	5000	0	0	0	28.28	20	23.3
435	0	0.034	0	5000	0	0	0	30	20	23.3
436	0	0.034	0	5000	0	0	0	27.78	20	23.3
437	0	0.034	0	5000	0	0	0	27.78	20	23.3
438	0	0.034	0	5000	0	0	0	29.39	20	23.3
439	0	0.034	0	5000	0	0	0	26.72	20	23.3
440	0	0.034	0	5000	0	0	0	29.39	20	23.3
441	0	0.034	0	5000	0	0	0	31.11	20	23.3
442	0	0.034	0	5000	0	0	0	33.89	20	23.3
443	0	0.034	0	5000	0	0	0	35	20	23.3
444	0	0.034	0	5000	0	0	0	36.11	20	23.3
445	0	0.034	0	5000	0	0	0	36.72	20	23.3
446	0	0.034	0	5000	0	0	0	37.78	20	23.3
447	0	0.034	0	5000	0	0	0	37.22	20	23.3
448	0	0.034	0	5000	0	0	0	37.22	20	23.3
449	0	0.034	0	5000	0	0	0	37.22	20	23.3
450	0	0.034	0	5000	0	0	0	36.11	20	23.3
451	0	0.034	0	5000	0	0	0	35	20	23.3
452	0	0.034	0	5000	0	0	0	33.28	20	23.3
453	0	0.034	0	5000	0	0	0	32.78	20	23.3
454	0	0.034	0	5000	0	0	0	29.39	20	23.3
455	0	0.034	0	5000	0	0	0	28.89	20	23.3
456	0	0.034	0	5000	0	0	0	27.22	20	23.3
457	0	0.034	0	5000	0	0	0	23.89	20	23.3
458	0	0.034	0	5000	0	0	0	25	20	23.3
459	0	0.034	0	5000	0	0	0	21.72	20	23.3
460	0	0.034	0	5000	0	0	0	21.11	20	23.3
461	0	0.034	0	5000	0	0	0	18.89	20	23.3
462	0	0.034	0	5000	0	0	0	19.39	20	23.3
463	0	0.034	0	5000	0	0	0	20	20	23.3
464	0	0.034	0	5000	0	0	0	23.89	20	23.3
465	0	0.034	0	5000	0	0	0	28.28	20	23.3
466	0	0.034	0	5000	0	0	0	29.39	20	23.3

467	0	0.034	0	5000	0	0	0	31.11	20	23.3
468	0	0.034	0	5000	0	0	0	32.78	20	23.3
469	0	0.034	0	5000	0	0	0	33.28	20	23.3
470	0	0.034	0	5000	0	0	0	35	20	23.3
471	0	0.034	0	5000	0	0	0	36.11	20	23.3
472	0	0.034	0	5000	0	0	0	36.72	20	23.3
473	0	0.034	0	5000	0	0	0	36.72	20	23.3
474	0	0.034	0	5000	0	0	0	36.72	20	23.3
475	0	0.034	0	5000	0	0	0	35.61	20	23.3
476	0	0.034	0	5000	0	0	0	31.72	20	23.3
477	0	0.034	0	5000	0	0	0	30.61	20	23.3
478	0	0.034	0	5000	0	0	0	26.11	20	23.3
479	0	0.034	0	5000	0	0	0	25.61	20	23.3
480	0	0.034	0	5000	0	0	0	21.11	20	23.3
481	0	0.034	0	5000	0	0	0	21.72	20	23.3
482	0	0.034	0	5000	0	0	0	20	20	23.3
483	0	0.034	0	5000	0	0	0	17.22	20	23.3
484	0	0.034	0	5000	0	0	0	17.78	20	23.3
485	0	0.034	0	5000	0	0	0	17.22	20	23.3
486	0	0.034	0	5000	0	0	0	17.22	20	23.3
487	0	0.034	0	5000	0	0	0	18.28	20	23.3
488	0	0.034	0	5000	0	0	0	22.78	20	23.3
489	0	0.034	0	5000	0	0	0	26.11	20	23.3
490	0	0.034	0	5000	0	0	0	30.61	20	23.3
491	0	0.034	0	5000	0	0	0	33.28	20	23.3
492	0	0.034	0	5000	0	0	0	34.39	20	23.3
493	0	0.034	0	5000	0	0	0	35.61	20	23.3
494	0	0.034	0	5000	0	0	0	37.78	20	23.3
495	0	0.034	0	5000	0	0	0	38.28	20	23.3
496	0	0.034	0	5000	0	0	0	38.28	20	23.3
497	0	0.034	0	5000	0	0	0	38.89	20	23.3
498	0	0.034	0	5000	0	0	0	37.78	20	23.3
499	0	0.034	0	5000	0	0	0	36.72	20	23.3
500	0	0.034	0	5000	0	0	0	34.39	20	23.3

501	0	0.034	0	5000	0	0	0	31.11	20	23.3
502	0	0.034	0	5000	0	0	0	29.39	20	23.3
503	0	0.034	0	5000	0	0	0	26.72	20	23.3
504	0	0.034	0	5000	0	0	0	25	20	23.3
505	0	0.034	0	5000	0	0	0	22.78	20	23.3
506	0	0.034	0	5000	0	0	0	22.22	20	23.3
507	0	0.034	0	5000	0	0	0	21.72	20	23.3
508	0	0.034	0	5000	0	0	0	19.39	20	23.3
509	0	0.034	0	5000	0	0	0	18.89	20	23.3
510	0	0.034	0	5000	0	0	0	18.89	20	23.3
511	0	0.034	0	5000	0	0	0	18.89	20	23.3
512	0	0.034	0	5000	0	0	0	25	20	23.3
513	0	0.034	0	5000	0	0	0	27.22	20	23.3
514	0	0.034	0	5000	0	0	0	31.11	20	23.3
515	0	0.034	0	5000	0	0	0	33.89	20	23.3
516	0	0.034	0	5000	0	0	0	35	20	23.3
517	0	0.034	0	5000	0	0	0	36.72	20	23.3
518	0	0.034	0	5000	0	0	0	38.28	20	23.3
519	0	0.034	0	5000	0	0	0	37.78	20	23.3
520	0	0.034	0	5000	0	0	0	38.28	20	23.3
521	0	0.034	0	5000	0	0	0	38.89	20	23.3
522	0	0.034	0	5000	0	0	0	37.78	20	23.3
523	0	0.034	0	5000	0	0	0	36.72	20	23.3
524	0	0.034	0	5000	0	0	0	35	20	23.3
525	0	0.034	0	5000	0	0	0	31.11	20	23.3
526	0	0.034	0	5000	0	0	0	30	20	23.3
527	0	0.034	0	5000	0	0	0	30	20	23.3
528	0	0.034	0	5000	0	0	0	25	20	23.3
529	0	0.034	0	5000	0	0	0	25	20	23.3
530	0	0.034	0	5000	0	0	0	23.89	20	23.3
531	0	0.034	0	5000	0	0	0	23.89	20	23.3
532	0	0.034	0	5000	0	0	0	20.61	20	23.3
533	0	0.034	0	5000	0	0	0	21.11	20	23.3
534	0	0.034	0	5000	0	0	0	21.72	20	23.3

535	0	0.034	0	5000	0	0	0	21.11	20	23.3
536	0	0.034	0	5000	0	0	0	26.11	20	23.3
537	0	0.034	0	5000	0	0	0	27.78	20	23.3
538	0	0.034	0	5000	0	0	0	30	20	23.3
539	0	0.034	0	5000	0	0	0	31.72	20	23.3
540	0	0.034	0	5000	0	0	0	33.28	20	23.3
541	0	0.034	0	5000	0	0	0	34.39	20	23.3
542	0	0.034	0	5000	0	0	0	36.11	20	23.3
543	0	0.034	0	5000	0	0	0	36.11	20	23.3
544	0	0.034	0	5000	0	0	0	36.72	20	23.3
545	0	0.034	0	5000	0	0	0	37.22	20	23.3
546	0	0.034	0	5000	0	0	0	37.22	20	23.3
547	0	0.034	0	5000	0	0	0	36.11	20	23.3
548	0	0.034	0	5000	0	0	0	33.89	20	23.3
549	0	0.034	0	5000	0	0	0	33.28	20	23.3
550	0	0.034	0	5000	0	0	0	30	20	23.3
551	0	0.034	0	5000	0	0	0	28.28	20	23.3
552	0	0.034	0	5000	0	0	0	24.39	20	23.3
553	0	0.034	0	5000	0	0	0	24.39	20	23.3
554	0	0.034	0	5000	0	0	0	25	20	23.3
555	0	0.034	0	5000	0	0	0	22.22	20	23.3
556	0	0.034	0	5000	0	0	0	21.72	20	23.3
557	0	0.034	0	5000	0	0	0	20	20	23.3
558	0	0.034	0	5000	0	0	0	18.89	20	23.3
559	0	0.034	0	5000	0	0	0	20	20	23.3
560	0	0.034	0	5000	0	0	0	25	20	23.3
561	0	0.034	0	5000	0	0	0	28.89	20	23.3
562	0	0.034	0	5000	0	0	0	31.72	20	23.3
563	0	0.034	0	5000	0	0	0	33.89	20	23.3
564	0	0.034	0	5000	0	0	0	35.61	20	23.3
565	0	0.034	0	5000	0	0	0	37.22	20	23.3
566	0	0.034	0	5000	0	0	0	37.22	20	23.3
567	0	0.034	0	5000	0	0	0	37.22	20	23.3
568	0	0.034	0	5000	0	0	0	38.28	20	23.3

569	0	0.034	0	5000	0	0	0	38.28	20	23.3
570	0	0.034	0	5000	0	0	0	37.78	20	23.3
571	0	0.034	0	5000	0	0	0	36.72	20	23.3
572	0	0.034	0	5000	0	0	0	33.28	20	23.3
573	0	0.034	0	5000	0	0	0	32.22	20	23.3
574	0	0.034	0	5000	0	0	0	30	20	23.3
575	0	0.034	0	5000	0	0	0	27.78	20	23.3
576	0	0.034	0	5000	0	0	0	27.22	20	23.3
577	0	0.034	0	5000	0	0	0	25.61	20	23.3
578	0	0.034	0	5000	0	0	0	27.22	20	23.3
579	0	0.034	0	5000	0	0	0	23.89	20	23.3
580	0	0.034	0	5000	0	0	0	21.72	20	23.3
581	0	0.034	0	5000	0	0	0	22.22	20	23.3
582	0	0.034	0	5000	0	0	0	21.11	20	23.3
583	0	0.034	0	5000	0	0	0	23.28	20	23.3
584	0	0.034	0	5000	0	0	0	26.11	20	23.3
585	0	0.034	0	5000	0	0	0	29.39	20	23.3
586	0	0.034	0	5000	0	0	0	33.89	20	23.3
587	0	0.034	0	5000	0	0	0	35	20	23.3
588	0	0.034	0	5000	0	0	0	36.11	20	23.3
589	0	0.034	0	5000	0	0	0	36.72	20	23.3
590	0	0.034	0	5000	0	0	0	37.78	20	23.3
591	0	0.034	0	5000	0	0	0	35.61	20	23.3
592	0	0.034	0	5000	0	0	0	34.39	20	23.3
593	0	0.034	0	5000	0	0	0	30	20	23.3
594	0	0.034	0	5000	0	0	0	32.22	20	23.3
595	0	0.034	0	5000	0	0	0	31.72	20	23.3
596	0	0.034	0	5000	0	0	0	30	20	23.3
597	0	0.034	0	5000	0	0	0	28.89	20	23.3
598	0	0.034	0	5000	0	0	0	28.89	20	23.3
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600	0	0.034	0	5000	0	0	0	26.11	20	23.3
601	0	0.034	0	5000	0	0	0	26.11	20	23.3
602	0	0.034	0	5000	0	0	0	23.28	20	23.3

603	0	0.034	0	5000	0	0	0	23.89	20	23.3
604	0	0.034	0	5000	0	0	0	21.72	20	23.3
605	0	0.034	0	5000	0	0	0	21.72	20	23.3
606	0	0.034	0	5000	0	0	0	21.11	20	23.3
607	0	0.034	0	5000	0	0	0	22.22	20	23.3
608	0	0.034	0	5000	0	0	0	23.89	20	23.3
609	0	0.034	0	5000	0	0	0	28.28	20	23.3
610	0	0.034	0	5000	0	0	0	30.61	20	23.3
611	0	0.034	0	5000	0	0	0	31.11	20	23.3
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623	0	0.034	0	5000	0	0	0	25.61	20	23.3
624	0	0.034	0	5000	0	0	0	25	20	23.3
625	0	0.034	0	5000	0	0	0	24.39	20	23.3
626	0	0.034	0	5000	0	0	0	22.78	20	23.3
627	0	0.034	0	5000	0	0	0	23.28	20	23.3
628	0	0.034	0	5000	0	0	0	23.28	20	23.3
629	0	0.034	0	5000	0	0	0	23.89	20	23.3
630	0	0.034	0	5000	0	0	0	22.78	20	23.3
631	0	0.034	0	5000	0	0	0	21.72	20	23.3
632	0	0.034	0	5000	0	0	0	23.28	20	23.3
633	0	0.034	0	5000	0	0	0	23.89	20	23.3
634	0	0.034	0	5000	0	0	0	25.61	20	23.3
635	0	0.034	0	5000	0	0	0	27.78	20	23.3
636	0	0.034	0	5000	0	0	0	28.28	20	23.3

637	0	0.034	0	5000	0	0	0	30.61	20	23.3
638	0	0.034	0	5000	0	0	0	31.11	20	23.3
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645	0	0.034	0	5000	0	0	0	28.28	20	23.3
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649	0	0.034	0	5000	0	0	0	25.61	20	23.3
650	0	0.034	0	5000	0	0	0	22.22	20	23.3
651	0	0.034	0	5000	0	0	0	23.28	20	23.3
652	0	0.034	0	5000	0	0	0	21.72	20	23.3
653	0	0.034	0	5000	0	0	0	21.11	20	23.3
654	0	0.034	0	5000	0	0	0	21.72	20	23.3
655	0	0.034	0	5000	0	0	0	21.72	20	23.3
656	0	0.034	0	5000	0	0	0	25	20	23.3
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663	0	0.034	0	5000	0	0	0	35	20	23.3
664	0	0.034	0	5000	0	0	0	36.11	20	23.3
665	0	0.034	0	5000	0	0	0	35.61	20	23.3
666	0	0.034	0	5000	0	0	0	35	20	23.3
667	0	0.034	0	5000	0	0	0	34.39	20	23.3
668	0	0.034	0	5000	0	0	0	33.28	20	23.3
669	0	0.034	0	5000	0	0	0	32.22	20	23.3
670	0	0.034	0	5000	0	0	0	31.11	20	23.3

671	0	0.034	0	5000	0	0	0	27.78	20	23.3
672	0	0.034	0	5000	0	0	0	28.89	20	23.3
673	0	0.034	0	5000	0	0	0	29.39	20	23.3
674	0	0.034	0	5000	0	0	0	27.78	20	23.3
675	0	0.034	0	5000	0	0	0	24.39	20	23.3
676	0	0.034	0	5000	0	0	0	23.89	20	23.3
677	0	0.034	0	5000	0	0	0	22.78	20	23.3
678	0	0.034	0	5000	0	0	0	21.72	20	23.3
679	0	0.034	0	5000	0	0	0	22.78	20	23.3
680	0	0.034	0	5000	0	0	0	26.11	20	23.3
681	0	0.034	0	5000	0	0	0	28.89	20	23.3
682	0	0.034	0	5000	0	0	0	31.11	20	23.3
683	0	0.034	0	5000	0	0	0	33.28	20	23.3
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685	0	0.034	0	5000	0	0	0	36.72	20	23.3
686	0	0.034	0	5000	0	0	0	37.22	20	23.3
687	0	0.034	0	5000	0	0	0	37.22	20	23.3
688	0	0.034	0	5000	0	0	0	37.78	20	23.3
689	0	0.034	0	5000	0	0	0	37.22	20	23.3
690	0	0.034	0	5000	0	0	0	37.22	20	23.3
691	0	0.034	0	5000	0	0	0	36.11	20	23.3
692	0	0.034	0	5000	0	0	0	34.39	20	23.3
693	0	0.034	0	5000	0	0	0	33.28	20	23.3
694	0	0.034	0	5000	0	0	0	30.61	20	23.3
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696	0	0.034	0	5000	0	0	0	28.28	20	23.3
697	0	0.034	0	5000	0	0	0	26.11	20	23.3
698	0	0.034	0	5000	0	0	0	27.78	20	23.3
699	0	0.034	0	5000	0	0	0	24.39	20	23.3
700	0	0.034	0	5000	0	0	0	25.61	20	23.3
701	0	0.034	0	5000	0	0	0	24.39	20	23.3
702	0	0.034	0	5000	0	0	0	23.89	20	23.3
703	0	0.034	0	5000	0	0	0	25	20	23.3
704	0	0.034	0	5000	0	0	0	27.22	20	23.3

705	0	0.034	0	5000	0	0	0	30.61	20	23.3
706	0	0.034	0	5000	0	0	0	32.78	20	23.3
707	0	0.034	0	5000	0	0	0	33.89	20	23.3
708	0	0.034	0	5000	0	0	0	33.28	20	23.3
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710	0	0.034	0	5000	0	0	0	32.22	20	23.3
711	0	0.034	0	5000	0	0	0	32.22	20	23.3
712	0	0.034	0	5000	0	0	0	31.72	20	23.3
713	0	0.034	0	5000	0	0	0	31.72	20	23.3
714	0	0.034	0	5000	0	0	0	32.22	20	23.3
715	0	0.034	0	5000	0	0	0	31.72	20	23.3
716	0	0.034	0	5000	0	0	0	30	20	23.3
717	0	0.034	0	5000	0	0	0	28.89	20	23.3
718	0	0.034	0	5000	0	0	0	28.28	20	23.3
719	0	0.034	0	5000	0	0	0	27.78	20	23.3
720	0	0.034	0	5000	0	0	0	27.22	20	23.3

end*** END OF INPUT FILE 'ATMOSPH.IN' *****

Qf4

Pcp_File_Version=4

*** BLOCK I: ATMOSPHERIC INFORMATION *****

MaxAL (MaxAL = number of atmospheric data-records)

720

DailyVar SinusVar IDummy IDummy IDummy IDummy IDummy IDummy IDummy IDummy

f f f f f t f f f f

hCritS (max. allowed pressure head at the soil surface)

0

tAtm	Prec	rSoil	rRoot	hCritA	rB	hB	ht	tTop	tBot	Ampl	RootDepth
1	0	0.034	0	5000	0	0	26.72	20	23.3		
2	0	0.034	0	5000	0	0	26.72	20	23.3		
3	0	0.034	0	5000	0	0	26.72	20	23.3		
4	0	0.034	0	5000	0	0	25.61	20	23.3		
5	0	0.034	0	5000	0	0	24.39	20	23.3		
6	0	0.034	0	5000	0	0	23.89	20	23.3		
7	0	0.034	0	5000	0	0	23.89	20	23.3		
8	0	0.034	0	5000	0	0	23.28	20	23.3		
9	0	0.034	0	5000	0	0	25	20	23.3		
10	0	0.034	0	5000	0	0	23.89	20	23.3		
11	0	0.034	0	5000	0	0	21.72	20	23.3		
12	0	0.034	0	5000	0	0	21.11	20	23.3		
13	0	0.034	0	5000	0	0	21.72	20	23.3		
14	0	0.034	0	5000	0	0	22.78	20	23.3		
15	0	0.034	0	5000	0	0	23.89	20	23.3		
16	0	0.034	0	5000	0	0	25.61	20	23.3		
17	0	0.034	0	5000	0	0	24.39	20	23.3		
18	0	0.034	0	5000	0	0	22.78	20	23.3		
19	0	0.034	0	5000	0	0	22.78	20	23.3		
20	0	0.034	0	5000	0	0	22.22	20	23.3		
21	0	0.034	0	5000	0	0	22.78	20	23.3		
22	0	0.034	0	5000	0	0	22.22	20	23.3		
23	0	0.034	0	5000	0	0	22.78	20	23.3		
24	0	0.034	0	5000	0	0	22.22	20	23.3		

189

25	0	0.034	0	5000	0	0	0	21.72	20	23.3
26	0	0.034	0	5000	0	0	0	22.22	20	23.3
27	0	0.034	0	5000	0	0	0	21.72	20	23.3
28	0	0.034	0	5000	0	0	0	21.72	20	23.3
29	0	0.034	0	5000	0	0	0	21.11	20	23.3
30	0	0.034	0	5000	0	0	0	21.11	20	23.3
31	0	0.034	0	5000	0	0	0	22.22	20	23.3
32	0	0.034	0	5000	0	0	0	23.89	20	23.3
33	0	0.034	0	5000	0	0	0	25	20	23.3
34	0	0.034	0	5000	0	0	0	26.11	20	23.3
35	0	0.034	0	5000	0	0	0	27.78	20	23.3
36	0	0.034	0	5000	0	0	0	29.39	20	23.3
37	0	0.034	0	5000	0	0	0	30.61	20	23.3
38	0	0.034	0	5000	0	0	0	31.11	20	23.3
39	0	0.034	0	5000	0	0	0	32.22	20	23.3
40	0	0.034	0	5000	0	0	0	31.72	20	23.3
41	0	0.034	0	5000	0	0	0	31.72	20	23.3
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46	0	0.034	0	5000	0	0	0	23.89	20	23.3
47	0	0.034	0	5000	0	0	0	24.39	20	23.3
48	0	0.034	0	5000	0	0	0	23.28	20	23.3
49	0	0.034	0	5000	0	0	0	22.78	20	23.3
50	0	0.034	0	5000	0	0	0	22.78	20	23.3
51	0	0.034	0	5000	0	0	0	22.78	20	23.3
52	0	0.034	0	5000	0	0	0	21.11	20	23.3
53	0	0.034	0	5000	0	0	0	21.11	20	23.3
54	0	0.034	0	5000	0	0	0	20.61	20	23.3
55	0	0.034	0	5000	0	0	0	21.72	20	23.3
56	0	0.034	0	5000	0	0	0	24.39	20	23.3
57	0	0.034	0	5000	0	0	0	26.11	20	23.3
58	0	0.034	0	5000	0	0	0	28.89	20	23.3

59	0	0.034	0	5000	0	0	0	30.61	20	23.3
60	0	0.034	0	5000	0	0	0	32.22	20	23.3
61	0	0.034	0	5000	0	0	0	33.28	20	23.3
62	0	0.034	0	5000	0	0	0	33.89	20	23.3
63	0	0.034	0	5000	0	0	0	35.61	20	23.3
64	0	0.034	0	5000	0	0	0	36.11	20	23.3
65	0	0.034	0	5000	0	0	0	36.72	20	23.3
66	0	0.034	0	5000	0	0	0	36.11	20	23.3
67	0	0.034	0	5000	0	0	0	33.28	20	23.3
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73	0	0.034	0	5000	0	0	0	26.11	20	23.3
74	0	0.034	0	5000	0	0	0	25.61	20	23.3
75	0	0.034	0	5000	0	0	0	25	20	23.3
76	0	0.034	0	5000	0	0	0	23.28	20	23.3
77	0	0.034	0	5000	0	0	0	22.22	20	23.3
78	0	0.034	0	5000	0	0	0	20.61	20	23.3
79	0	0.034	0	5000	0	0	0	22.78	20	23.3
80	0	0.034	0	5000	0	0	0	26.72	20	23.3
81	0	0.034	0	5000	0	0	0	28.89	20	23.3
82	0	0.034	0	5000	0	0	0	32.22	20	23.3
83	0	0.034	0	5000	0	0	0	35	20	23.3
84	0	0.034	0	5000	0	0	0	35.61	20	23.3
85	0	0.034	0	5000	0	0	0	37.22	20	23.3
86	0	0.034	0	5000	0	0	0	37.22	20	23.3
87	0	0.034	0	5000	0	0	0	36.72	20	23.3
88	0	0.034	0	5000	0	0	0	37.22	20	23.3
89	0	0.034	0	5000	0	0	0	37.78	20	23.3
90	0	0.034	0	5000	0	0	0	37.22	20	23.3
91	0	0.034	0	5000	0	0	0	36.72	20	23.3
92	0	0.034	0	5000	0	0	0	35.61	20	23.3

93	0	0.034	0	5000	0	0	0	33.89	20	23.3
94	0	0.034	0	5000	0	0	0	32.22	20	23.3
95	0	0.034	0	5000	0	0	0	31.72	20	23.3
96	0	0.034	0	5000	0	0	0	31.72	20	23.3
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117	0	0.034	0	5000	0	0	0	31.11	20	23.3
118	0	0.034	0	5000	0	0	0	30.61	20	23.3
119	0	0.034	0	5000	0	0	0	30	20	23.3
120	0	0.034	0	5000	0	0	0	28.89	20	23.3
121	0	0.034	0	5000	0	0	0	27.78	20	23.3
122	0	0.034	0	5000	0	0	0	25.61	20	23.3
123	0	0.034	0	5000	0	0	0	23.28	20	23.3
124	0	0.034	0	5000	0	0	0	23.89	20	23.3
125	0	0.034	0	5000	0	0	0	23.28	20	23.3
126	0	0.034	0	5000	0	0	0	22.78	20	23.3

127	0	0.034	0	5000	0	0	0	22.78	20	23.3
128	0	0.034	0	5000	0	0	0	24.39	20	23.3
129	0	0.034	0	5000	0	0	0	27.22	20	23.3
130	0	0.034	0	5000	0	0	0	29.39	20	23.3
131	0	0.034	0	5000	0	0	0	31.11	20	23.3
132	0	0.034	0	5000	0	0	0	32.22	20	23.3
133	0	0.034	0	5000	0	0	0	33.28	20	23.3
134	0	0.034	0	5000	0	0	0	33.89	20	23.3
135	0	0.034	0	5000	0	0	0	33.89	20	23.3
136	0	0.034	0	5000	0	0	0	33.89	20	23.3
137	0	0.034	0	5000	0	0	0	33.89	20	23.3
138	0	0.034	0	5000	0	0	0	33.89	20	23.3
139	0	0.034	0	5000	0	0	0	32.78	20	23.3
140	0	0.034	0	5000	0	0	0	30.61	20	23.3
141	0	0.034	0	5000	0	0	0	28.89	20	23.3
142	0	0.034	0	5000	0	0	0	25.61	20	23.3
143	0	0.034	0	5000	0	0	0	22.78	20	23.3
144	0	0.034	0	5000	0	0	0	22.78	20	23.3
145	0	0.034	0	5000	0	0	0	22.78	20	23.3
146	0	0.034	0	5000	0	0	0	21.11	20	23.3
147	0	0.034	0	5000	0	0	0	20.61	20	23.3
148	0	0.034	0	5000	0	0	0	18.28	20	23.3
149	0	0.034	0	5000	0	0	0	16.72	20	23.3
150	0	0.034	0	5000	0	0	0	16.72	20	23.3
151	0	0.034	0	5000	0	0	0	17.78	20	23.3
152	0	0.034	0	5000	0	0	0	21.72	20	23.3
153	0	0.034	0	5000	0	0	0	24.39	20	23.3
154	0	0.034	0	5000	0	0	0	26.11	20	23.3
155	0	0.034	0	5000	0	0	0	28.28	20	23.3
156	0	0.034	0	5000	0	0	0	28.89	20	23.3
157	0	0.034	0	5000	0	0	0	31.11	20	23.3
158	0	0.034	0	5000	0	0	0	32.78	20	23.3
159	0	0.034	0	5000	0	0	0	33.89	20	23.3
160	0	0.034	0	5000	0	0	0	33.89	20	23.3

161	0	0.034	0	5000	0	0	0	33.89	20	23.3
162	0	0.034	0	5000	0	0	0	33.89	20	23.3
163	0	0.034	0	5000	0	0	0	32.78	20	23.3
164	0	0.034	0	5000	0	0	0	30.61	20	23.3
165	0	0.034	0	5000	0	0	0	29.39	20	23.3
166	0	0.034	0	5000	0	0	0	26.72	20	23.3
167	0	0.034	0	5000	0	0	0	26.72	20	23.3
168	0	0.034	0	5000	0	0	0	23.28	20	23.3
169	0	0.034	0	5000	0	0	0	23.89	20	23.3
170	0	0.034	0	5000	0	0	0	19.39	20	23.3
171	0	0.034	0	5000	0	0	0	17.78	20	23.3
172	0	0.034	0	5000	0	0	0	19.39	20	23.3
173	0	0.034	0	5000	0	0	0	17.22	20	23.3
174	0	0.034	0	5000	0	0	0	15.61	20	23.3
175	0	0.034	0	5000	0	0	0	17.78	20	23.3
176	0	0.034	0	5000	0	0	0	22.22	20	23.3
177	0	0.034	0	5000	0	0	0	25	20	23.3
178	0	0.034	0	5000	0	0	0	28.28	20	23.3
179	0	0.034	0	5000	0	0	0	31.72	20	23.3
180	0	0.034	0	5000	0	0	0	32.22	20	23.3
181	0	0.034	0	5000	0	0	0	33.28	20	23.3
182	0	0.034	0	5000	0	0	0	33.89	20	23.3
183	0	0.034	0	5000	0	0	0	34.39	20	23.3
184	0	0.034	0	5000	0	0	0	35	20	23.3
185	0	0.034	0	5000	0	0	0	35.61	20	23.3
186	0	0.034	0	5000	0	0	0	35	20	23.3
187	0	0.034	0	5000	0	0	0	33.89	20	23.3
188	0	0.034	0	5000	0	0	0	31.72	20	23.3
189	0	0.034	0	5000	0	0	0	30.61	20	23.3
190	0	0.034	0	5000	0	0	0	28.89	20	23.3
191	0	0.034	0	5000	0	0	0	25.61	20	23.3
192	0	0.034	0	5000	0	0	0	27.22	20	23.3
193	0	0.034	0	5000	0	0	0	22.22	20	23.3
194	0	0.034	0	5000	0	0	0	19.39	20	23.3

195	0	0.034	0	5000	0	0	0	20.61	20	23.3
196	0	0.034	0	5000	0	0	0	20	20	23.3
197	0	0.034	0	5000	0	0	0	18.89	20	23.3
198	0	0.034	0	5000	0	0	0	16.72	20	23.3
199	0	0.034	0	5000	0	0	0	19.39	20	23.3
200	0	0.034	0	5000	0	0	0	23.89	20	23.3
201	0	0.034	0	5000	0	0	0	26.72	20	23.3
202	0	0.034	0	5000	0	0	0	29.39	20	23.3
203	0	0.034	0	5000	0	0	0	32.22	20	23.3
204	0	0.034	0	5000	0	0	0	32.78	20	23.3
205	0	0.034	0	5000	0	0	0	33.28	20	23.3
206	0	0.034	0	5000	0	0	0	35	20	23.3
207	0	0.034	0	5000	0	0	0	36.72	20	23.3
208	0	0.034	0	5000	0	0	0	36.11	20	23.3
209	0	0.034	0	5000	0	0	0	36.11	20	23.3
210	0	0.034	0	5000	0	0	0	35.61	20	23.3
211	0	0.034	0	5000	0	0	0	33.89	20	23.3
212	0	0.034	0	5000	0	0	0	32.22	20	23.3
213	0	0.034	0	5000	0	0	0	30.61	20	23.3
214	0	0.034	0	5000	0	0	0	28.28	20	23.3
215	0	0.034	0	5000	0	0	0	24.39	20	23.3
216	0	0.034	0	5000	0	0	0	26.72	20	23.3
217	0	0.034	0	5000	0	0	0	24.39	20	23.3
218	0	0.034	0	5000	0	0	0	23.89	20	23.3
219	0	0.034	0	5000	0	0	0	21.11	20	23.3
220	0	0.034	0	5000	0	0	0	21.72	20	23.3
221	0	0.034	0	5000	0	0	0	20	20	23.3
222	0	0.034	0	5000	0	0	0	17.78	20	23.3
223	0	0.034	0	5000	0	0	0	19.39	20	23.3
224	0	0.034	0	5000	0	0	0	22.78	20	23.3
225	0	0.034	0	5000	0	0	0	26.11	20	23.3
226	0	0.034	0	5000	0	0	0	29.39	20	23.3
227	0	0.034	0	5000	0	0	0	32.22	20	23.3
228	0	0.034	0	5000	0	0	0	32.78	20	23.3

229	0	0.034	0	5000	0	0	0	33.89	20	23.3
230	0	0.034	0	5000	0	0	0	35	20	23.3
231	0	0.034	0	5000	0	0	0	35.61	20	23.3
232	0	0.034	0	5000	0	0	0	36.72	20	23.3
233	0	0.034	0	5000	0	0	0	37.22	20	23.3
234	0	0.034	0	5000	0	0	0	36.11	20	23.3
235	0	0.034	0	5000	0	0	0	35	20	23.3
236	0	0.034	0	5000	0	0	0	32.78	20	23.3
237	0	0.034	0	5000	0	0	0	30.61	20	23.3
238	0	0.034	0	5000	0	0	0	30	20	23.3
239	0	0.034	0	5000	0	0	0	27.22	20	23.3
240	0	0.034	0	5000	0	0	0	25	20	23.3
241	0	0.034	0	5000	0	0	0	25	20	23.3
242	0	0.034	0	5000	0	0	0	23.89	20	23.3
243	0	0.034	0	5000	0	0	0	22.22	20	23.3
244	0	0.034	0	5000	0	0	0	20	20	23.3
245	0	0.034	0	5000	0	0	0	20	20	23.3
246	0	0.034	0	5000	0	0	0	18.28	20	23.3
247	0	0.034	0	5000	0	0	0	20.61	20	23.3
248	0	0.034	0	5000	0	0	0	23.89	20	23.3
249	0	0.034	0	5000	0	0	0	27.22	20	23.3
250	0	0.034	0	5000	0	0	0	32.78	20	23.3
251	0	0.034	0	5000	0	0	0	33.28	20	23.3
252	0	0.034	0	5000	0	0	0	35.61	20	23.3
253	0	0.034	0	5000	0	0	0	35.61	20	23.3
254	0	0.034	0	5000	0	0	0	36.11	20	23.3
255	0	0.034	0	5000	0	0	0	36.72	20	23.3
256	0	0.034	0	5000	0	0	0	37.78	20	23.3
257	0	0.034	0	5000	0	0	0	37.78	20	23.3
258	0	0.034	0	5000	0	0	0	36.72	20	23.3
259	0	0.034	0	5000	0	0	0	35.61	20	23.3
260	0	0.034	0	5000	0	0	0	33.89	20	23.3
261	0	0.034	0	5000	0	0	0	32.78	20	23.3
262	0	0.034	0	5000	0	0	0	30	20	23.3

263	0	0.034	0	5000	0	0	0	29.39	20	23.3
264	0	0.034	0	5000	0	0	0	28.28	20	23.3
265	0	0.034	0	5000	0	0	0	27.78	20	23.3
266	0	0.034	0	5000	0	0	0	26.72	20	23.3
267	0	0.034	0	5000	0	0	0	24.39	20	23.3
268	0	0.034	0	5000	0	0	0	23.89	20	23.3
269	0	0.034	0	5000	0	0	0	22.22	20	23.3
270	0	0.034	0	5000	0	0	0	22.78	20	23.3
271	0	0.034	0	5000	0	0	0	24.39	20	23.3
272	0	0.034	0	5000	0	0	0	27.22	20	23.3
273	0	0.034	0	5000	0	0	0	30	20	23.3
274	0	0.034	0	5000	0	0	0	32.78	20	23.3
275	0	0.034	0	5000	0	0	0	33.89	20	23.3
276	0	0.034	0	5000	0	0	0	34.39	20	23.3
277	0	0.034	0	5000	0	0	0	35.61	20	23.3
278	0	0.034	0	5000	0	0	0	36.72	20	23.3
279	0	0.034	0	5000	0	0	0	37.22	20	23.3
280	0	0.034	0	5000	0	0	0	37.78	20	23.3
281	0	0.034	0	5000	0	0	0	37.78	20	23.3
282	0	0.034	0	5000	0	0	0	37.78	20	23.3
283	0	0.034	0	5000	0	0	0	36.72	20	23.3
284	0	0.034	0	5000	0	0	0	35	20	23.3
285	0	0.034	0	5000	0	0	0	33.89	20	23.3
286	0	0.034	0	5000	0	0	0	32.78	20	23.3
287	0	0.034	0	5000	0	0	0	31.11	20	23.3
288	0	0.034	0	5000	0	0	0	31.72	20	23.3
289	0	0.034	0	5000	0	0	0	27.78	20	23.3
290	0	0.034	0	5000	0	0	0	25	20	23.3
291	0	0.034	0	5000	0	0	0	25.61	20	23.3
292	0	0.034	0	5000	0	0	0	25.61	20	23.3
293	0	0.034	0	5000	0	0	0	23.89	20	23.3
294	0	0.034	0	5000	0	0	0	23.89	20	23.3
295	0	0.034	0	5000	0	0	0	23.89	20	23.3
296	0	0.034	0	5000	0	0	0	27.22	20	23.3

297	0	0.034	0	5000	0	0	0	30.61	20	23.3
298	0	0.034	0	5000	0	0	0	33.28	20	23.3
299	0	0.034	0	5000	0	0	0	35	20	23.3
300	0	0.034	0	5000	0	0	0	37.22	20	23.3
301	0	0.034	0	5000	0	0	0	38.28	20	23.3
302	0	0.034	0	5000	0	0	0	38.28	20	23.3
303	0	0.034	0	5000	0	0	0	38.28	20	23.3
304	0	0.034	0	5000	0	0	0	38.89	20	23.3
305	0	0.034	0	5000	0	0	0	38.89	20	23.3
306	0	0.034	0	5000	0	0	0	38.28	20	23.3
307	0	0.034	0	5000	0	0	0	37.22	20	23.3
308	0	0.034	0	5000	0	0	0	35	20	23.3
309	0	0.034	0	5000	0	0	0	34.39	20	23.3
310	0	0.034	0	5000	0	0	0	30.61	20	23.3
311	0	0.034	0	5000	0	0	0	30.61	20	23.3
312	0	0.034	0	5000	0	0	0	28.89	20	23.3
313	0	0.034	0	5000	0	0	0	26.72	20	23.3
314	0	0.034	0	5000	0	0	0	24.39	20	23.3
315	0	0.034	0	5000	0	0	0	25.61	20	23.3
316	0	0.034	0	5000	0	0	0	23.28	20	23.3
317	0	0.034	0	5000	0	0	0	21.72	20	23.3
318	0	0.034	0	5000	0	0	0	22.22	20	23.3
319	0	0.034	0	5000	0	0	0	23.28	20	23.3
320	0	0.034	0	5000	0	0	0	25.61	20	23.3
321	0	0.034	0	5000	0	0	0	32.22	20	23.3
322	0	0.034	0	5000	0	0	0	33.89	20	23.3
323	0	0.034	0	5000	0	0	0	36.11	20	23.3
324	0	0.034	0	5000	0	0	0	36.11	20	23.3
325	0	0.034	0	5000	0	0	0	36.72	20	23.3
326	0	0.034	0	5000	0	0	0	37.22	20	23.3
327	0	0.034	0	5000	0	0	0	37.78	20	23.3
328	0	0.034	0	5000	0	0	0	36.72	20	23.3
329	0	0.034	0	5000	0	0	0	37.22	20	23.3
330	0	0.034	0	5000	0	0	0	36.72	20	23.3

331	0	0.034	0	5000	0	0	0	35.61	20	23.3
332	0	0.034	0	5000	0	0	0	33.89	20	23.3
333	0	0.034	0	5000	0	0	0	32.22	20	23.3
334	0	0.034	0	5000	0	0	0	30.61	20	23.3
335	0	0.034	0	5000	0	0	0	28.89	20	23.3
336	0	0.034	0	5000	0	0	0	26.72	20	23.3
337	0	0.034	0	5000	0	0	0	25.61	20	23.3
338	0	0.034	0	5000	0	0	0	25	20	23.3
339	0	0.034	0	5000	0	0	0	24.39	20	23.3
340	0	0.034	0	5000	0	0	0	23.28	20	23.3
341	0	0.034	0	5000	0	0	0	23.28	20	23.3
342	0	0.034	0	5000	0	0	0	22.78	20	23.3
343	0	0.034	0	5000	0	0	0	22.22	20	23.3
344	0	0.034	0	5000	0	0	0	26.72	20	23.3
345	0	0.034	0	5000	0	0	0	28.89	20	23.3
346	0	0.034	0	5000	0	0	0	32.78	20	23.3
347	0	0.034	0	5000	0	0	0	34.39	20	23.3
348	0	0.034	0	5000	0	0	0	36.72	20	23.3
349	0	0.034	0	5000	0	0	0	36.72	20	23.3
350	0	0.034	0	5000	0	0	0	37.78	20	23.3
351	0	0.034	0	5000	0	0	0	36.72	20	23.3
352	0	0.034	0	5000	0	0	0	37.78	20	23.3
353	0	0.034	0	5000	0	0	0	37.78	20	23.3
354	0	0.034	0	5000	0	0	0	37.78	20	23.3
355	0	0.034	0	5000	0	0	0	36.72	20	23.3
356	0	0.034	0	5000	0	0	0	35	20	23.3
357	0	0.034	0	5000	0	0	0	33.28	20	23.3
358	0	0.034	0	5000	0	0	0	31.11	20	23.3
359	0	0.034	0	5000	0	0	0	30.61	20	23.3
360	0	0.034	0	5000	0	0	0	27.78	20	23.3
361	0	0.034	0	5000	0	0	0	27.78	20	23.3
362	0	0.034	0	5000	0	0	0	25.61	20	23.3
363	0	0.034	0	5000	0	0	0	23.28	20	23.3
364	0	0.034	0	5000	0	0	0	23.89	20	23.3

365	0	0.034	0	5000	0	0	0	24.39	20	23.3
366	0	0.034	0	5000	0	0	0	23.89	20	23.3
367	0	0.034	0	5000	0	0	0	23.89	20	23.3
368	0	0.034	0	5000	0	0	0	27.78	20	23.3
369	0	0.034	0	5000	0	0	0	31.11	20	23.3
370	0	0.034	0	5000	0	0	0	32.78	20	23.3
371	0	0.034	0	5000	0	0	0	36.11	20	23.3
372	0	0.034	0	5000	0	0	0	37.22	20	23.3
373	0	0.034	0	5000	0	0	0	36.11	20	23.3
374	0	0.034	0	5000	0	0	0	38.28	20	23.3
375	0	0.034	0	5000	0	0	0	37.78	20	23.3
376	0	0.034	0	5000	0	0	0	38.89	20	23.3
377	0	0.034	0	5000	0	0	0	38.28	20	23.3
378	0	0.034	0	5000	0	0	0	36.11	20	23.3
379	0	0.034	0	5000	0	0	0	36.72	20	23.3
380	0	0.034	0	5000	0	0	0	35	20	23.3
381	0	0.034	0	5000	0	0	0	33.89	20	23.3
382	0	0.034	0	5000	0	0	0	31.72	20	23.3
383	0	0.034	0	5000	0	0	0	30	20	23.3
384	0	0.034	0	5000	0	0	0	28.89	20	23.3
385	0	0.034	0	5000	0	0	0	29.39	20	23.3
386	0	0.034	0	5000	0	0	0	27.22	20	23.3
387	0	0.034	0	5000	0	0	0	26.11	20	23.3
388	0	0.034	0	5000	0	0	0	25	20	23.3
389	0	0.034	0	5000	0	0	0	25	20	23.3
390	0	0.034	0	5000	0	0	0	25	20	23.3
391	0	0.034	0	5000	0	0	0	24.39	20	23.3
392	0	0.034	0	5000	0	0	0	27.78	20	23.3
393	0	0.034	0	5000	0	0	0	32.78	20	23.3
394	0	0.034	0	5000	0	0	0	33.89	20	23.3
395	0	0.034	0	5000	0	0	0	35.61	20	23.3
396	0	0.034	0	5000	0	0	0	36.11	20	23.3
397	0	0.034	0	5000	0	0	0	35.61	20	23.3
398	0	0.034	0	5000	0	0	0	37.78	20	23.3

399	0	0.034	0	5000	0	0	0	38.28	20	23.3
400	0	0.034	0	5000	0	0	0	37.22	20	23.3
401	0	0.034	0	5000	0	0	0	36.72	20	23.3
402	0	0.034	0	5000	0	0	0	36.11	20	23.3
403	0	0.034	0	5000	0	0	0	32.78	20	23.3
404	0	0.034	0	5000	0	0	0	30	20	23.3
405	0	0.034	0	5000	0	0	0	28.28	20	23.3
406	0	0.034	0	5000	0	0	0	28.28	20	23.3
407	0	0.034	0	5000	0	0	0	29.39	20	23.3
408	0	0.034	0	5000	0	0	0	28.89	20	23.3
409	0	0.034	0	5000	0	0	0	28.89	20	23.3
410	0	0.034	0	5000	0	0	0	27.78	20	23.3
411	0	0.034	0	5000	0	0	0	28.28	20	23.3
412	0	0.034	0	5000	0	0	0	26.72	20	23.3
413	0	0.034	0	5000	0	0	0	26.72	20	23.3
414	0	0.034	0	5000	0	0	0	26.11	20	23.3
415	0	0.034	0	5000	0	0	0	26.11	20	23.3
416	0	0.034	0	5000	0	0	0	28.28	20	23.3
417	0	0.034	0	5000	0	0	0	31.11	20	23.3
418	0	0.034	0	5000	0	0	0	32.78	20	23.3
419	0	0.034	0	5000	0	0	0	33.89	20	23.3
420	0	0.034	0	5000	0	0	0	35.61	20	23.3
421	0	0.034	0	5000	0	0	0	35.61	20	23.3
422	0	0.034	0	5000	0	0	0	36.72	20	23.3
423	0	0.034	0	5000	0	0	0	37.78	20	23.3
424	0	0.034	0	5000	0	0	0	37.78	20	23.3
425	0	0.034	0	5000	0	0	0	37.78	20	23.3
426	0	0.034	0	5000	0	0	0	36.72	20	23.3
427	0	0.034	0	5000	0	0	0	35	20	23.3
428	0	0.034	0	5000	0	0	0	33.89	20	23.3
429	0	0.034	0	5000	0	0	0	33.28	20	23.3
430	0	0.034	0	5000	0	0	0	32.78	20	23.3
431	0	0.034	0	5000	0	0	0	30	20	23.3
432	0	0.034	0	5000	0	0	0	31.11	20	23.3

433	0	0.034	0	5000	0	0	0	30	20	23.3
434	0	0.034	0	5000	0	0	0	28.28	20	23.3
435	0	0.034	0	5000	0	0	0	30	20	23.3
436	0	0.034	0	5000	0	0	0	27.78	20	23.3
437	0	0.034	0	5000	0	0	0	27.78	20	23.3
438	0	0.034	0	5000	0	0	0	29.39	20	23.3
439	0	0.034	0	5000	0	0	0	26.72	20	23.3
440	0	0.034	0	5000	0	0	0	29.39	20	23.3
441	0	0.034	0	5000	0	0	0	31.11	20	23.3
442	0	0.034	0	5000	0	0	0	33.89	20	23.3
443	0	0.034	0	5000	0	0	0	35	20	23.3
444	0	0.034	0	5000	0	0	0	36.11	20	23.3
445	0	0.034	0	5000	0	0	0	36.72	20	23.3
446	0	0.034	0	5000	0	0	0	37.78	20	23.3
447	0	0.034	0	5000	0	0	0	37.22	20	23.3
448	0	0.034	0	5000	0	0	0	37.22	20	23.3
449	0	0.034	0	5000	0	0	0	37.22	20	23.3
450	0	0.034	0	5000	0	0	0	36.11	20	23.3
451	0	0.034	0	5000	0	0	0	35	20	23.3
452	0	0.034	0	5000	0	0	0	33.28	20	23.3
453	0	0.034	0	5000	0	0	0	32.78	20	23.3
454	0	0.034	0	5000	0	0	0	29.39	20	23.3
455	0	0.034	0	5000	0	0	0	28.89	20	23.3
456	0	0.034	0	5000	0	0	0	27.22	20	23.3
457	0	0.034	0	5000	0	0	0	23.89	20	23.3
458	0	0.034	0	5000	0	0	0	25	20	23.3
459	0	0.034	0	5000	0	0	0	21.72	20	23.3
460	0	0.034	0	5000	0	0	0	21.11	20	23.3
461	0	0.034	0	5000	0	0	0	18.89	20	23.3
462	0	0.034	0	5000	0	0	0	19.39	20	23.3
463	0	0.034	0	5000	0	0	0	20	20	23.3
464	0	0.034	0	5000	0	0	0	23.89	20	23.3
465	0	0.034	0	5000	0	0	0	28.28	20	23.3
466	0	0.034	0	5000	0	0	0	29.39	20	23.3

467	0	0.034	0	5000	0	0	0	31.11	20	23.3
468	0	0.034	0	5000	0	0	0	32.78	20	23.3
469	0	0.034	0	5000	0	0	0	33.28	20	23.3
470	0	0.034	0	5000	0	0	0	35	20	23.3
471	0	0.034	0	5000	0	0	0	36.11	20	23.3
472	0	0.034	0	5000	0	0	0	36.72	20	23.3
473	0	0.034	0	5000	0	0	0	36.72	20	23.3
474	0	0.034	0	5000	0	0	0	36.72	20	23.3
475	0	0.034	0	5000	0	0	0	35.61	20	23.3
476	0	0.034	0	5000	0	0	0	31.72	20	23.3
477	0	0.034	0	5000	0	0	0	30.61	20	23.3
478	0	0.034	0	5000	0	0	0	26.11	20	23.3
479	0	0.034	0	5000	0	0	0	25.61	20	23.3
480	0	0.034	0	5000	0	0	0	21.11	20	23.3
481	0	0.034	0	5000	0	0	0	21.72	20	23.3
482	0	0.034	0	5000	0	0	0	20	20	23.3
483	0	0.034	0	5000	0	0	0	17.22	20	23.3
484	0	0.034	0	5000	0	0	0	17.78	20	23.3
485	0	0.034	0	5000	0	0	0	17.22	20	23.3
486	0	0.034	0	5000	0	0	0	17.22	20	23.3
487	0	0.034	0	5000	0	0	0	18.28	20	23.3
488	0	0.034	0	5000	0	0	0	22.78	20	23.3
489	0	0.034	0	5000	0	0	0	26.11	20	23.3
490	0	0.034	0	5000	0	0	0	30.61	20	23.3
491	0	0.034	0	5000	0	0	0	33.28	20	23.3
492	0	0.034	0	5000	0	0	0	34.39	20	23.3
493	0	0.034	0	5000	0	0	0	35.61	20	23.3
494	0	0.034	0	5000	0	0	0	37.78	20	23.3
495	0	0.034	0	5000	0	0	0	38.28	20	23.3
496	0	0.034	0	5000	0	0	0	38.28	20	23.3
497	0	0.034	0	5000	0	0	0	38.89	20	23.3
498	0	0.034	0	5000	0	0	0	37.78	20	23.3
499	0	0.034	0	5000	0	0	0	36.72	20	23.3
500	0	0.034	0	5000	0	0	0	34.39	20	23.3

501	0	0.034	0	5000	0	0	0	31.11	20	23.3
502	0	0.034	0	5000	0	0	0	29.39	20	23.3
503	0	0.034	0	5000	0	0	0	26.72	20	23.3
504	0	0.034	0	5000	0	0	0	25	20	23.3
505	0	0.034	0	5000	0	0	0	22.78	20	23.3
506	0	0.034	0	5000	0	0	0	22.22	20	23.3
507	0	0.034	0	5000	0	0	0	21.72	20	23.3
508	0	0.034	0	5000	0	0	0	19.39	20	23.3
509	0	0.034	0	5000	0	0	0	18.89	20	23.3
510	0	0.034	0	5000	0	0	0	18.89	20	23.3
511	0	0.034	0	5000	0	0	0	18.89	20	23.3
512	0	0.034	0	5000	0	0	0	25	20	23.3
513	0	0.034	0	5000	0	0	0	27.22	20	23.3
514	0	0.034	0	5000	0	0	0	31.11	20	23.3
515	0	0.034	0	5000	0	0	0	33.89	20	23.3
516	0	0.034	0	5000	0	0	0	35	20	23.3
517	0	0.034	0	5000	0	0	0	36.72	20	23.3
518	0	0.034	0	5000	0	0	0	38.28	20	23.3
519	0	0.034	0	5000	0	0	0	37.78	20	23.3
520	0	0.034	0	5000	0	0	0	38.28	20	23.3
521	0	0.034	0	5000	0	0	0	38.89	20	23.3
522	0	0.034	0	5000	0	0	0	37.78	20	23.3
523	0	0.034	0	5000	0	0	0	36.72	20	23.3
524	0	0.034	0	5000	0	0	0	35	20	23.3
525	0	0.034	0	5000	0	0	0	31.11	20	23.3
526	0	0.034	0	5000	0	0	0	30	20	23.3
527	0	0.034	0	5000	0	0	0	30	20	23.3
528	0	0.034	0	5000	0	0	0	25	20	23.3
529	0	0.034	0	5000	0	0	0	25	20	23.3
530	0	0.034	0	5000	0	0	0	23.89	20	23.3
531	0	0.034	0	5000	0	0	0	23.89	20	23.3
532	0	0.034	0	5000	0	0	0	20.61	20	23.3
533	0	0.034	0	5000	0	0	0	21.11	20	23.3
534	0	0.034	0	5000	0	0	0	21.72	20	23.3

535	0	0.034	0	5000	0	0	0	21.11	20	23.3
536	0	0.034	0	5000	0	0	0	26.11	20	23.3
537	0	0.034	0	5000	0	0	0	27.78	20	23.3
538	0	0.034	0	5000	0	0	0	30	20	23.3
539	0	0.034	0	5000	0	0	0	31.72	20	23.3
540	0	0.034	0	5000	0	0	0	33.28	20	23.3
541	0	0.034	0	5000	0	0	0	34.39	20	23.3
542	0	0.034	0	5000	0	0	0	36.11	20	23.3
543	0	0.034	0	5000	0	0	0	36.11	20	23.3
544	0	0.034	0	5000	0	0	0	36.72	20	23.3
545	0	0.034	0	5000	0	0	0	37.22	20	23.3
546	0	0.034	0	5000	0	0	0	37.22	20	23.3
547	0	0.034	0	5000	0	0	0	36.11	20	23.3
548	0	0.034	0	5000	0	0	0	33.89	20	23.3
549	0	0.034	0	5000	0	0	0	33.28	20	23.3
550	0	0.034	0	5000	0	0	0	30	20	23.3
551	0	0.034	0	5000	0	0	0	28.28	20	23.3
552	0	0.034	0	5000	0	0	0	24.39	20	23.3
553	0	0.034	0	5000	0	0	0	24.39	20	23.3
554	0	0.034	0	5000	0	0	0	25	20	23.3
555	0	0.034	0	5000	0	0	0	22.22	20	23.3
556	0	0.034	0	5000	0	0	0	21.72	20	23.3
557	0	0.034	0	5000	0	0	0	20	20	23.3
558	0	0.034	0	5000	0	0	0	18.89	20	23.3
559	0	0.034	0	5000	0	0	0	20	20	23.3
560	0	0.034	0	5000	0	0	0	25	20	23.3
561	0	0.034	0	5000	0	0	0	28.89	20	23.3
562	0	0.034	0	5000	0	0	0	31.72	20	23.3
563	0	0.034	0	5000	0	0	0	33.89	20	23.3
564	0	0.034	0	5000	0	0	0	35.61	20	23.3
565	0	0.034	0	5000	0	0	0	37.22	20	23.3
566	0	0.034	0	5000	0	0	0	37.22	20	23.3
567	0	0.034	0	5000	0	0	0	37.22	20	23.3
568	0	0.034	0	5000	0	0	0	38.28	20	23.3

569	0	0.034	0	5000	0	0	0	38.28	20	23.3
570	0	0.034	0	5000	0	0	0	37.78	20	23.3
571	0	0.034	0	5000	0	0	0	36.72	20	23.3
572	0	0.034	0	5000	0	0	0	33.28	20	23.3
573	0	0.034	0	5000	0	0	0	32.22	20	23.3
574	0	0.034	0	5000	0	0	0	30	20	23.3
575	0	0.034	0	5000	0	0	0	27.78	20	23.3
576	0	0.034	0	5000	0	0	0	27.22	20	23.3
577	0	0.034	0	5000	0	0	0	25.61	20	23.3
578	0	0.034	0	5000	0	0	0	27.22	20	23.3
579	0	0.034	0	5000	0	0	0	23.89	20	23.3
580	0	0.034	0	5000	0	0	0	21.72	20	23.3
581	0	0.034	0	5000	0	0	0	22.22	20	23.3
582	0	0.034	0	5000	0	0	0	21.11	20	23.3
583	0	0.034	0	5000	0	0	0	23.28	20	23.3
584	0	0.034	0	5000	0	0	0	26.11	20	23.3
585	0	0.034	0	5000	0	0	0	29.39	20	23.3
586	0	0.034	0	5000	0	0	0	33.89	20	23.3
587	0	0.034	0	5000	0	0	0	35	20	23.3
588	0	0.034	0	5000	0	0	0	36.11	20	23.3
589	0	0.034	0	5000	0	0	0	36.72	20	23.3
590	0	0.034	0	5000	0	0	0	37.78	20	23.3
591	0	0.034	0	5000	0	0	0	35.61	20	23.3
592	0	0.034	0	5000	0	0	0	34.39	20	23.3
593	0	0.034	0	5000	0	0	0	30	20	23.3
594	0	0.034	0	5000	0	0	0	32.22	20	23.3
595	0	0.034	0	5000	0	0	0	31.72	20	23.3
596	0	0.034	0	5000	0	0	0	30	20	23.3
597	0	0.034	0	5000	0	0	0	28.89	20	23.3
598	0	0.034	0	5000	0	0	0	28.89	20	23.3
599	0	0.034	0	5000	0	0	0	25.61	20	23.3
600	0	0.034	0	5000	0	0	0	26.11	20	23.3
601	0	0.034	0	5000	0	0	0	26.11	20	23.3
602	0	0.034	0	5000	0	0	0	23.28	20	23.3

603	0	0.034	0	5000	0	0	0	23.89	20	23.3
604	0	0.034	0	5000	0	0	0	21.72	20	23.3
605	0	0.034	0	5000	0	0	0	21.72	20	23.3
606	0	0.034	0	5000	0	0	0	21.11	20	23.3
607	0	0.034	0	5000	0	0	0	22.22	20	23.3
608	0	0.034	0	5000	0	0	0	23.89	20	23.3
609	0	0.034	0	5000	0	0	0	28.28	20	23.3
610	0	0.034	0	5000	0	0	0	30.61	20	23.3
611	0	0.034	0	5000	0	0	0	31.11	20	23.3
612	0	0.034	0	5000	0	0	0	32.78	20	23.3
613	0	0.034	0	5000	0	0	0	32.78	20	23.3
614	0	0.034	0	5000	0	0	0	31.11	20	23.3
615	0	0.034	0	5000	0	0	0	31.11	20	23.3
616	0	0.034	0	5000	0	0	0	28.89	20	23.3
617	0	0.034	0	5000	0	0	0	29.39	20	23.3
618	0	0.034	0	5000	0	0	0	28.89	20	23.3
619	0	0.034	0	5000	0	0	0	28.89	20	23.3
620	0	0.034	0	5000	0	0	0	27.78	20	23.3
621	0	0.034	0	5000	0	0	0	25.61	20	23.3
622	0	0.034	0	5000	0	0	0	25.61	20	23.3
623	0	0.034	0	5000	0	0	0	25.61	20	23.3
624	0	0.034	0	5000	0	0	0	25	20	23.3
625	0	0.034	0	5000	0	0	0	24.39	20	23.3
626	0	0.034	0	5000	0	0	0	22.78	20	23.3
627	0	0.034	0	5000	0	0	0	23.28	20	23.3
628	0	0.034	0	5000	0	0	0	23.28	20	23.3
629	0	0.034	0	5000	0	0	0	23.89	20	23.3
630	0	0.034	0	5000	0	0	0	22.78	20	23.3
631	0	0.034	0	5000	0	0	0	21.72	20	23.3
632	0	0.034	0	5000	0	0	0	23.28	20	23.3
633	0	0.034	0	5000	0	0	0	23.89	20	23.3
634	0	0.034	0	5000	0	0	0	25.61	20	23.3
635	0	0.034	0	5000	0	0	0	27.78	20	23.3
636	0	0.034	0	5000	0	0	0	28.28	20	23.3

637	0	0.034	0	5000	0	0	0	30.61	20	23.3
638	0	0.034	0	5000	0	0	0	31.11	20	23.3
639	0	0.034	0	5000	0	0	0	31.72	20	23.3
640	0	0.034	0	5000	0	0	0	32.22	20	23.3
641	0	0.034	0	5000	0	0	0	31.72	20	23.3
642	0	0.034	0	5000	0	0	0	31.72	20	23.3
643	0	0.034	0	5000	0	0	0	31.11	20	23.3
644	0	0.034	0	5000	0	0	0	29.39	20	23.3
645	0	0.034	0	5000	0	0	0	28.28	20	23.3
646	0	0.034	0	5000	0	0	0	27.22	20	23.3
647	0	0.034	0	5000	0	0	0	26.72	20	23.3
648	0	0.034	0	5000	0	0	0	26.11	20	23.3
649	0	0.034	0	5000	0	0	0	25.61	20	23.3
650	0	0.034	0	5000	0	0	0	22.22	20	23.3
651	0	0.034	0	5000	0	0	0	23.28	20	23.3
652	0	0.034	0	5000	0	0	0	21.72	20	23.3
653	0	0.034	0	5000	0	0	0	21.11	20	23.3
654	0	0.034	0	5000	0	0	0	21.72	20	23.3
655	0	0.034	0	5000	0	0	0	21.72	20	23.3
656	0	0.034	0	5000	0	0	0	25	20	23.3
657	0	0.034	0	5000	0	0	0	27.22	20	23.3
658	0	0.034	0	5000	0	0	0	29.39	20	23.3
659	0	0.034	0	5000	0	0	0	31.11	20	23.3
660	0	0.034	0	5000	0	0	0	32.22	20	23.3
661	0	0.034	0	5000	0	0	0	32.78	20	23.3
662	0	0.034	0	5000	0	0	0	33.89	20	23.3
663	0	0.034	0	5000	0	0	0	35	20	23.3
664	0	0.034	0	5000	0	0	0	36.11	20	23.3
665	0	0.034	0	5000	0	0	0	35.61	20	23.3
666	0	0.034	0	5000	0	0	0	35	20	23.3
667	0	0.034	0	5000	0	0	0	34.39	20	23.3
668	0	0.034	0	5000	0	0	0	33.28	20	23.3
669	0	0.034	0	5000	0	0	0	32.22	20	23.3
670	0	0.034	0	5000	0	0	0	31.11	20	23.3

671	0	0.034	0	5000	0	0	0	27.78	20	23.3
672	0	0.034	0	5000	0	0	0	28.89	20	23.3
673	0	0.034	0	5000	0	0	0	29.39	20	23.3
674	0	0.034	0	5000	0	0	0	27.78	20	23.3
675	0	0.034	0	5000	0	0	0	24.39	20	23.3
676	0	0.034	0	5000	0	0	0	23.89	20	23.3
677	0	0.034	0	5000	0	0	0	22.78	20	23.3
678	0	0.034	0	5000	0	0	0	21.72	20	23.3
679	0	0.034	0	5000	0	0	0	22.78	20	23.3
680	0	0.034	0	5000	0	0	0	26.11	20	23.3
681	0	0.034	0	5000	0	0	0	28.89	20	23.3
682	0	0.034	0	5000	0	0	0	31.11	20	23.3
683	0	0.034	0	5000	0	0	0	33.28	20	23.3
684	0	0.034	0	5000	0	0	0	35	20	23.3
685	0	0.034	0	5000	0	0	0	36.72	20	23.3
686	0	0.034	0	5000	0	0	0	37.22	20	23.3
687	0	0.034	0	5000	0	0	0	37.22	20	23.3
688	0	0.034	0	5000	0	0	0	37.78	20	23.3
689	0	0.034	0	5000	0	0	0	37.22	20	23.3
690	0	0.034	0	5000	0	0	0	37.22	20	23.3
691	0	0.034	0	5000	0	0	0	36.11	20	23.3
692	0	0.034	0	5000	0	0	0	34.39	20	23.3
693	0	0.034	0	5000	0	0	0	33.28	20	23.3
694	0	0.034	0	5000	0	0	0	30.61	20	23.3
695	0	0.034	0	5000	0	0	0	31.11	20	23.3
696	0	0.034	0	5000	0	0	0	28.28	20	23.3
697	0	0.034	0	5000	0	0	0	26.11	20	23.3
698	0	0.034	0	5000	0	0	0	27.78	20	23.3
699	0	0.034	0	5000	0	0	0	24.39	20	23.3
700	0	0.034	0	5000	0	0	0	25.61	20	23.3
701	0	0.034	0	5000	0	0	0	24.39	20	23.3
702	0	0.034	0	5000	0	0	0	23.89	20	23.3
703	0	0.034	0	5000	0	0	0	25	20	23.3
704	0	0.034	0	5000	0	0	0	27.22	20	23.3

705	0	0.034	0	5000	0	0	0	30.61	20	23.3
706	0	0.034	0	5000	0	0	0	32.78	20	23.3
707	0	0.034	0	5000	0	0	0	33.89	20	23.3
708	0	0.034	0	5000	0	0	0	33.28	20	23.3
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713	0	0.034	0	5000	0	0	0	31.72	20	23.3
714	0	0.034	0	5000	0	0	0	32.22	20	23.3
715	0	0.034	0	5000	0	0	0	31.72	20	23.3
716	0	0.034	0	5000	0	0	0	30	20	23.3
717	0	0.034	0	5000	0	0	0	28.89	20	23.3
718	0	0.034	0	5000	0	0	0	28.28	20	23.3
719	0	0.034	0	5000	0	0	0	27.78	20	23.3
720	0	0.034	0	5000	0	0	0	27.22	20	23.3

end*** END OF INPUT FILE 'ATMOSPH.IN' *****

Qf5

Pcp_File_Version=4

*** BLOCK I: ATMOSPHERIC INFORMATION *****

MaxAL (MaxAL = number of atmospheric data-records)

720

DailyVar SinusVar IDummy IDummy IDummy IDummy IDummy IDummy IDummy IDummy

f f f f f t f f f f

hCritS (max. allowed pressure head at the soil surface)

0

tAtm	Prec	rSoil	rRoot	hCritA	rB	hB	ht	tTop	tBot	Ampl	RootDepth
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2	0	0.034	0	5000	0	0	26.72	20	23.3		
3	0	0.034	0	5000	0	0	26.72	20	23.3		
4	0	0.034	0	5000	0	0	25.61	20	23.3		
5	0	0.034	0	5000	0	0	24.39	20	23.3		
6	0	0.034	0	5000	0	0	23.89	20	23.3		
7	0	0.034	0	5000	0	0	23.89	20	23.3		
8	0	0.034	0	5000	0	0	23.28	20	23.3		
9	0	0.034	0	5000	0	0	25	20	23.3		
10	0	0.034	0	5000	0	0	23.89	20	23.3		
11	0	0.034	0	5000	0	0	21.72	20	23.3		
12	0	0.034	0	5000	0	0	21.11	20	23.3		
13	0	0.034	0	5000	0	0	21.72	20	23.3		
14	0	0.034	0	5000	0	0	22.78	20	23.3		
15	0	0.034	0	5000	0	0	23.89	20	23.3		
16	0	0.034	0	5000	0	0	25.61	20	23.3		
17	0	0.034	0	5000	0	0	24.39	20	23.3		
18	0	0.034	0	5000	0	0	22.78	20	23.3		
19	0	0.034	0	5000	0	0	22.78	20	23.3		
20	0	0.034	0	5000	0	0	22.22	20	23.3		
21	0	0.034	0	5000	0	0	22.78	20	23.3		
22	0	0.034	0	5000	0	0	22.22	20	23.3		
23	0	0.034	0	5000	0	0	22.78	20	23.3		
24	0	0.034	0	5000	0	0	22.22	20	23.3		

25	0	0.034	0	5000	0	0	0	21.72	20	23.3
26	0	0.034	0	5000	0	0	0	22.22	20	23.3
27	0	0.034	0	5000	0	0	0	21.72	20	23.3
28	0	0.034	0	5000	0	0	0	21.72	20	23.3
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31	0	0.034	0	5000	0	0	0	22.22	20	23.3
32	0	0.034	0	5000	0	0	0	23.89	20	23.3
33	0	0.034	0	5000	0	0	0	25	20	23.3
34	0	0.034	0	5000	0	0	0	26.11	20	23.3
35	0	0.034	0	5000	0	0	0	27.78	20	23.3
36	0	0.034	0	5000	0	0	0	29.39	20	23.3
37	0	0.034	0	5000	0	0	0	30.61	20	23.3
38	0	0.034	0	5000	0	0	0	31.11	20	23.3
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41	0	0.034	0	5000	0	0	0	31.72	20	23.3
42	0	0.034	0	5000	0	0	0	32.22	20	23.3
43	0	0.034	0	5000	0	0	0	31.11	20	23.3
44	0	0.034	0	5000	0	0	0	23.28	20	23.3
45	0	0.034	0	5000	0	0	0	25.61	20	23.3
46	0	0.034	0	5000	0	0	0	23.89	20	23.3
47	0	0.034	0	5000	0	0	0	24.39	20	23.3
48	0	0.034	0	5000	0	0	0	23.28	20	23.3
49	0	0.034	0	5000	0	0	0	22.78	20	23.3
50	0	0.034	0	5000	0	0	0	22.78	20	23.3
51	0	0.034	0	5000	0	0	0	22.78	20	23.3
52	0	0.034	0	5000	0	0	0	21.11	20	23.3
53	0	0.034	0	5000	0	0	0	21.11	20	23.3
54	0	0.034	0	5000	0	0	0	20.61	20	23.3
55	0	0.034	0	5000	0	0	0	21.72	20	23.3
56	0	0.034	0	5000	0	0	0	24.39	20	23.3
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58	0	0.034	0	5000	0	0	0	28.89	20	23.3

59	0	0.034	0	5000	0	0	0	30.61	20	23.3
60	0	0.034	0	5000	0	0	0	32.22	20	23.3
61	0	0.034	0	5000	0	0	0	33.28	20	23.3
62	0	0.034	0	5000	0	0	0	33.89	20	23.3
63	0	0.034	0	5000	0	0	0	35.61	20	23.3
64	0	0.034	0	5000	0	0	0	36.11	20	23.3
65	0	0.034	0	5000	0	0	0	36.72	20	23.3
66	0	0.034	0	5000	0	0	0	36.11	20	23.3
67	0	0.034	0	5000	0	0	0	33.28	20	23.3
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73	0	0.034	0	5000	0	0	0	26.11	20	23.3
74	0	0.034	0	5000	0	0	0	25.61	20	23.3
75	0	0.034	0	5000	0	0	0	25	20	23.3
76	0	0.034	0	5000	0	0	0	23.28	20	23.3
77	0	0.034	0	5000	0	0	0	22.22	20	23.3
78	0	0.034	0	5000	0	0	0	20.61	20	23.3
79	0	0.034	0	5000	0	0	0	22.78	20	23.3
80	0	0.034	0	5000	0	0	0	26.72	20	23.3
81	0	0.034	0	5000	0	0	0	28.89	20	23.3
82	0	0.034	0	5000	0	0	0	32.22	20	23.3
83	0	0.034	0	5000	0	0	0	35	20	23.3
84	0	0.034	0	5000	0	0	0	35.61	20	23.3
85	0	0.034	0	5000	0	0	0	37.22	20	23.3
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87	0	0.034	0	5000	0	0	0	36.72	20	23.3
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89	0	0.034	0	5000	0	0	0	37.78	20	23.3
90	0	0.034	0	5000	0	0	0	37.22	20	23.3
91	0	0.034	0	5000	0	0	0	36.72	20	23.3
92	0	0.034	0	5000	0	0	0	35.61	20	23.3

93	0	0.034	0	5000	0	0	0	33.89	20	23.3
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100	0	0.034	0	5000	0	0	0	27.22	20	23.3
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106	0	0.034	0	5000	0	0	0	33.89	20	23.3
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112	0	0.034	0	5000	0	0	0	36.72	20	23.3
113	0	0.034	0	5000	0	0	0	36.11	20	23.3
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120	0	0.034	0	5000	0	0	0	28.89	20	23.3
121	0	0.034	0	5000	0	0	0	27.78	20	23.3
122	0	0.034	0	5000	0	0	0	25.61	20	23.3
123	0	0.034	0	5000	0	0	0	23.28	20	23.3
124	0	0.034	0	5000	0	0	0	23.89	20	23.3
125	0	0.034	0	5000	0	0	0	23.28	20	23.3
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130	0	0.034	0	5000	0	0	0	29.39	20	23.3
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132	0	0.034	0	5000	0	0	0	32.22	20	23.3
133	0	0.034	0	5000	0	0	0	33.28	20	23.3
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139	0	0.034	0	5000	0	0	0	32.78	20	23.3
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154	0	0.034	0	5000	0	0	0	26.11	20	23.3
155	0	0.034	0	5000	0	0	0	28.28	20	23.3
156	0	0.034	0	5000	0	0	0	28.89	20	23.3
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159	0	0.034	0	5000	0	0	0	33.89	20	23.3
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163	0	0.034	0	5000	0	0	0	32.78	20	23.3
164	0	0.034	0	5000	0	0	0	30.61	20	23.3
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166	0	0.034	0	5000	0	0	0	26.72	20	23.3
167	0	0.034	0	5000	0	0	0	26.72	20	23.3
168	0	0.034	0	5000	0	0	0	23.28	20	23.3
169	0	0.034	0	5000	0	0	0	23.89	20	23.3
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171	0	0.034	0	5000	0	0	0	17.78	20	23.3
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175	0	0.034	0	5000	0	0	0	17.78	20	23.3
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188	0	0.034	0	5000	0	0	0	31.72	20	23.3
189	0	0.034	0	5000	0	0	0	30.61	20	23.3
190	0	0.034	0	5000	0	0	0	28.89	20	23.3
191	0	0.034	0	5000	0	0	0	25.61	20	23.3
192	0	0.034	0	5000	0	0	0	27.22	20	23.3
193	0	0.034	0	5000	0	0	0	22.22	20	23.3
194	0	0.034	0	5000	0	0	0	19.39	20	23.3

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196	0	0.034	0	5000	0	0	0	20	20	23.3
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199	0	0.034	0	5000	0	0	0	19.39	20	23.3
200	0	0.034	0	5000	0	0	0	23.89	20	23.3
201	0	0.034	0	5000	0	0	0	26.72	20	23.3
202	0	0.034	0	5000	0	0	0	29.39	20	23.3
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220	0	0.034	0	5000	0	0	0	21.72	20	23.3
221	0	0.034	0	5000	0	0	0	20	20	23.3
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229	0	0.034	0	5000	0	0	0	33.89	20	23.3
230	0	0.034	0	5000	0	0	0	35	20	23.3
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232	0	0.034	0	5000	0	0	0	36.72	20	23.3
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238	0	0.034	0	5000	0	0	0	30	20	23.3
239	0	0.034	0	5000	0	0	0	27.22	20	23.3
240	0	0.034	0	5000	0	0	0	25	20	23.3
241	0	0.034	0	5000	0	0	0	25	20	23.3
242	0	0.034	0	5000	0	0	0	23.89	20	23.3
243	0	0.034	0	5000	0	0	0	22.22	20	23.3
244	0	0.034	0	5000	0	0	0	20	20	23.3
245	0	0.034	0	5000	0	0	0	20	20	23.3
246	0	0.034	0	5000	0	0	0	18.28	20	23.3
247	0	0.034	0	5000	0	0	0	20.61	20	23.3
248	0	0.034	0	5000	0	0	0	23.89	20	23.3
249	0	0.034	0	5000	0	0	0	27.22	20	23.3
250	0	0.034	0	5000	0	0	0	32.78	20	23.3
251	0	0.034	0	5000	0	0	0	33.28	20	23.3
252	0	0.034	0	5000	0	0	0	35.61	20	23.3
253	0	0.034	0	5000	0	0	0	35.61	20	23.3
254	0	0.034	0	5000	0	0	0	36.11	20	23.3
255	0	0.034	0	5000	0	0	0	36.72	20	23.3
256	0	0.034	0	5000	0	0	0	37.78	20	23.3
257	0	0.034	0	5000	0	0	0	37.78	20	23.3
258	0	0.034	0	5000	0	0	0	36.72	20	23.3
259	0	0.034	0	5000	0	0	0	35.61	20	23.3
260	0	0.034	0	5000	0	0	0	33.89	20	23.3
261	0	0.034	0	5000	0	0	0	32.78	20	23.3
262	0	0.034	0	5000	0	0	0	30	20	23.3

263	0	0.034	0	5000	0	0	0	29.39	20	23.3
264	0	0.034	0	5000	0	0	0	28.28	20	23.3
265	0	0.034	0	5000	0	0	0	27.78	20	23.3
266	0	0.034	0	5000	0	0	0	26.72	20	23.3
267	0	0.034	0	5000	0	0	0	24.39	20	23.3
268	0	0.034	0	5000	0	0	0	23.89	20	23.3
269	0	0.034	0	5000	0	0	0	22.22	20	23.3
270	0	0.034	0	5000	0	0	0	22.78	20	23.3
271	0	0.034	0	5000	0	0	0	24.39	20	23.3
272	0	0.034	0	5000	0	0	0	27.22	20	23.3
273	0	0.034	0	5000	0	0	0	30	20	23.3
274	0	0.034	0	5000	0	0	0	32.78	20	23.3
275	0	0.034	0	5000	0	0	0	33.89	20	23.3
276	0	0.034	0	5000	0	0	0	34.39	20	23.3
277	0	0.034	0	5000	0	0	0	35.61	20	23.3
278	0	0.034	0	5000	0	0	0	36.72	20	23.3
279	0	0.034	0	5000	0	0	0	37.22	20	23.3
280	0	0.034	0	5000	0	0	0	37.78	20	23.3
281	0	0.034	0	5000	0	0	0	37.78	20	23.3
282	0	0.034	0	5000	0	0	0	37.78	20	23.3
283	0	0.034	0	5000	0	0	0	36.72	20	23.3
284	0	0.034	0	5000	0	0	0	35	20	23.3
285	0	0.034	0	5000	0	0	0	33.89	20	23.3
286	0	0.034	0	5000	0	0	0	32.78	20	23.3
287	0	0.034	0	5000	0	0	0	31.11	20	23.3
288	0	0.034	0	5000	0	0	0	31.72	20	23.3
289	0	0.034	0	5000	0	0	0	27.78	20	23.3
290	0	0.034	0	5000	0	0	0	25	20	23.3
291	0	0.034	0	5000	0	0	0	25.61	20	23.3
292	0	0.034	0	5000	0	0	0	25.61	20	23.3
293	0	0.034	0	5000	0	0	0	23.89	20	23.3
294	0	0.034	0	5000	0	0	0	23.89	20	23.3
295	0	0.034	0	5000	0	0	0	23.89	20	23.3
296	0	0.034	0	5000	0	0	0	27.22	20	23.3

297	0	0.034	0	5000	0	0	0	30.61	20	23.3
298	0	0.034	0	5000	0	0	0	33.28	20	23.3
299	0	0.034	0	5000	0	0	0	35	20	23.3
300	0	0.034	0	5000	0	0	0	37.22	20	23.3
301	0	0.034	0	5000	0	0	0	38.28	20	23.3
302	0	0.034	0	5000	0	0	0	38.28	20	23.3
303	0	0.034	0	5000	0	0	0	38.28	20	23.3
304	0	0.034	0	5000	0	0	0	38.89	20	23.3
305	0	0.034	0	5000	0	0	0	38.89	20	23.3
306	0	0.034	0	5000	0	0	0	38.28	20	23.3
307	0	0.034	0	5000	0	0	0	37.22	20	23.3
308	0	0.034	0	5000	0	0	0	35	20	23.3
309	0	0.034	0	5000	0	0	0	34.39	20	23.3
310	0	0.034	0	5000	0	0	0	30.61	20	23.3
311	0	0.034	0	5000	0	0	0	30.61	20	23.3
312	0	0.034	0	5000	0	0	0	28.89	20	23.3
313	0	0.034	0	5000	0	0	0	26.72	20	23.3
314	0	0.034	0	5000	0	0	0	24.39	20	23.3
315	0	0.034	0	5000	0	0	0	25.61	20	23.3
316	0	0.034	0	5000	0	0	0	23.28	20	23.3
317	0	0.034	0	5000	0	0	0	21.72	20	23.3
318	0	0.034	0	5000	0	0	0	22.22	20	23.3
319	0	0.034	0	5000	0	0	0	23.28	20	23.3
320	0	0.034	0	5000	0	0	0	25.61	20	23.3
321	0	0.034	0	5000	0	0	0	32.22	20	23.3
322	0	0.034	0	5000	0	0	0	33.89	20	23.3
323	0	0.034	0	5000	0	0	0	36.11	20	23.3
324	0	0.034	0	5000	0	0	0	36.11	20	23.3
325	0	0.034	0	5000	0	0	0	36.72	20	23.3
326	0	0.034	0	5000	0	0	0	37.22	20	23.3
327	0	0.034	0	5000	0	0	0	37.78	20	23.3
328	0	0.034	0	5000	0	0	0	36.72	20	23.3
329	0	0.034	0	5000	0	0	0	37.22	20	23.3
330	0	0.034	0	5000	0	0	0	36.72	20	23.3

331	0	0.034	0	5000	0	0	0	35.61	20	23.3
332	0	0.034	0	5000	0	0	0	33.89	20	23.3
333	0	0.034	0	5000	0	0	0	32.22	20	23.3
334	0	0.034	0	5000	0	0	0	30.61	20	23.3
335	0	0.034	0	5000	0	0	0	28.89	20	23.3
336	0	0.034	0	5000	0	0	0	26.72	20	23.3
337	0	0.034	0	5000	0	0	0	25.61	20	23.3
338	0	0.034	0	5000	0	0	0	25	20	23.3
339	0	0.034	0	5000	0	0	0	24.39	20	23.3
340	0	0.034	0	5000	0	0	0	23.28	20	23.3
341	0	0.034	0	5000	0	0	0	23.28	20	23.3
342	0	0.034	0	5000	0	0	0	22.78	20	23.3
343	0	0.034	0	5000	0	0	0	22.22	20	23.3
344	0	0.034	0	5000	0	0	0	26.72	20	23.3
345	0	0.034	0	5000	0	0	0	28.89	20	23.3
346	0	0.034	0	5000	0	0	0	32.78	20	23.3
347	0	0.034	0	5000	0	0	0	34.39	20	23.3
348	0	0.034	0	5000	0	0	0	36.72	20	23.3
349	0	0.034	0	5000	0	0	0	36.72	20	23.3
350	0	0.034	0	5000	0	0	0	37.78	20	23.3
351	0	0.034	0	5000	0	0	0	36.72	20	23.3
352	0	0.034	0	5000	0	0	0	37.78	20	23.3
353	0	0.034	0	5000	0	0	0	37.78	20	23.3
354	0	0.034	0	5000	0	0	0	37.78	20	23.3
355	0	0.034	0	5000	0	0	0	36.72	20	23.3
356	0	0.034	0	5000	0	0	0	35	20	23.3
357	0	0.034	0	5000	0	0	0	33.28	20	23.3
358	0	0.034	0	5000	0	0	0	31.11	20	23.3
359	0	0.034	0	5000	0	0	0	30.61	20	23.3
360	0	0.034	0	5000	0	0	0	27.78	20	23.3
361	0	0.034	0	5000	0	0	0	27.78	20	23.3
362	0	0.034	0	5000	0	0	0	25.61	20	23.3
363	0	0.034	0	5000	0	0	0	23.28	20	23.3
364	0	0.034	0	5000	0	0	0	23.89	20	23.3

365	0	0.034	0	5000	0	0	0	24.39	20	23.3
366	0	0.034	0	5000	0	0	0	23.89	20	23.3
367	0	0.034	0	5000	0	0	0	23.89	20	23.3
368	0	0.034	0	5000	0	0	0	27.78	20	23.3
369	0	0.034	0	5000	0	0	0	31.11	20	23.3
370	0	0.034	0	5000	0	0	0	32.78	20	23.3
371	0	0.034	0	5000	0	0	0	36.11	20	23.3
372	0	0.034	0	5000	0	0	0	37.22	20	23.3
373	0	0.034	0	5000	0	0	0	36.11	20	23.3
374	0	0.034	0	5000	0	0	0	38.28	20	23.3
375	0	0.034	0	5000	0	0	0	37.78	20	23.3
376	0	0.034	0	5000	0	0	0	38.89	20	23.3
377	0	0.034	0	5000	0	0	0	38.28	20	23.3
378	0	0.034	0	5000	0	0	0	36.11	20	23.3
379	0	0.034	0	5000	0	0	0	36.72	20	23.3
380	0	0.034	0	5000	0	0	0	35	20	23.3
381	0	0.034	0	5000	0	0	0	33.89	20	23.3
382	0	0.034	0	5000	0	0	0	31.72	20	23.3
383	0	0.034	0	5000	0	0	0	30	20	23.3
384	0	0.034	0	5000	0	0	0	28.89	20	23.3
385	0	0.034	0	5000	0	0	0	29.39	20	23.3
386	0	0.034	0	5000	0	0	0	27.22	20	23.3
387	0	0.034	0	5000	0	0	0	26.11	20	23.3
388	0	0.034	0	5000	0	0	0	25	20	23.3
389	0	0.034	0	5000	0	0	0	25	20	23.3
390	0	0.034	0	5000	0	0	0	25	20	23.3
391	0	0.034	0	5000	0	0	0	24.39	20	23.3
392	0	0.034	0	5000	0	0	0	27.78	20	23.3
393	0	0.034	0	5000	0	0	0	32.78	20	23.3
394	0	0.034	0	5000	0	0	0	33.89	20	23.3
395	0	0.034	0	5000	0	0	0	35.61	20	23.3
396	0	0.034	0	5000	0	0	0	36.11	20	23.3
397	0	0.034	0	5000	0	0	0	35.61	20	23.3
398	0	0.034	0	5000	0	0	0	37.78	20	23.3

399	0	0.034	0	5000	0	0	0	38.28	20	23.3
400	0	0.034	0	5000	0	0	0	37.22	20	23.3
401	0	0.034	0	5000	0	0	0	36.72	20	23.3
402	0	0.034	0	5000	0	0	0	36.11	20	23.3
403	0	0.034	0	5000	0	0	0	32.78	20	23.3
404	0	0.034	0	5000	0	0	0	30	20	23.3
405	0	0.034	0	5000	0	0	0	28.28	20	23.3
406	0	0.034	0	5000	0	0	0	28.28	20	23.3
407	0	0.034	0	5000	0	0	0	29.39	20	23.3
408	0	0.034	0	5000	0	0	0	28.89	20	23.3
409	0	0.034	0	5000	0	0	0	28.89	20	23.3
410	0	0.034	0	5000	0	0	0	27.78	20	23.3
411	0	0.034	0	5000	0	0	0	28.28	20	23.3
412	0	0.034	0	5000	0	0	0	26.72	20	23.3
413	0	0.034	0	5000	0	0	0	26.72	20	23.3
414	0	0.034	0	5000	0	0	0	26.11	20	23.3
415	0	0.034	0	5000	0	0	0	26.11	20	23.3
416	0	0.034	0	5000	0	0	0	28.28	20	23.3
417	0	0.034	0	5000	0	0	0	31.11	20	23.3
418	0	0.034	0	5000	0	0	0	32.78	20	23.3
419	0	0.034	0	5000	0	0	0	33.89	20	23.3
420	0	0.034	0	5000	0	0	0	35.61	20	23.3
421	0	0.034	0	5000	0	0	0	35.61	20	23.3
422	0	0.034	0	5000	0	0	0	36.72	20	23.3
423	0	0.034	0	5000	0	0	0	37.78	20	23.3
424	0	0.034	0	5000	0	0	0	37.78	20	23.3
425	0	0.034	0	5000	0	0	0	37.78	20	23.3
426	0	0.034	0	5000	0	0	0	36.72	20	23.3
427	0	0.034	0	5000	0	0	0	35	20	23.3
428	0	0.034	0	5000	0	0	0	33.89	20	23.3
429	0	0.034	0	5000	0	0	0	33.28	20	23.3
430	0	0.034	0	5000	0	0	0	32.78	20	23.3
431	0	0.034	0	5000	0	0	0	30	20	23.3
432	0	0.034	0	5000	0	0	0	31.11	20	23.3

433	0	0.034	0	5000	0	0	0	30	20	23.3
434	0	0.034	0	5000	0	0	0	28.28	20	23.3
435	0	0.034	0	5000	0	0	0	30	20	23.3
436	0	0.034	0	5000	0	0	0	27.78	20	23.3
437	0	0.034	0	5000	0	0	0	27.78	20	23.3
438	0	0.034	0	5000	0	0	0	29.39	20	23.3
439	0	0.034	0	5000	0	0	0	26.72	20	23.3
440	0	0.034	0	5000	0	0	0	29.39	20	23.3
441	0	0.034	0	5000	0	0	0	31.11	20	23.3
442	0	0.034	0	5000	0	0	0	33.89	20	23.3
443	0	0.034	0	5000	0	0	0	35	20	23.3
444	0	0.034	0	5000	0	0	0	36.11	20	23.3
445	0	0.034	0	5000	0	0	0	36.72	20	23.3
446	0	0.034	0	5000	0	0	0	37.78	20	23.3
447	0	0.034	0	5000	0	0	0	37.22	20	23.3
448	0	0.034	0	5000	0	0	0	37.22	20	23.3
449	0	0.034	0	5000	0	0	0	37.22	20	23.3
450	0	0.034	0	5000	0	0	0	36.11	20	23.3
451	0	0.034	0	5000	0	0	0	35	20	23.3
452	0	0.034	0	5000	0	0	0	33.28	20	23.3
453	0	0.034	0	5000	0	0	0	32.78	20	23.3
454	0	0.034	0	5000	0	0	0	29.39	20	23.3
455	0	0.034	0	5000	0	0	0	28.89	20	23.3
456	0	0.034	0	5000	0	0	0	27.22	20	23.3
457	0	0.034	0	5000	0	0	0	23.89	20	23.3
458	0	0.034	0	5000	0	0	0	25	20	23.3
459	0	0.034	0	5000	0	0	0	21.72	20	23.3
460	0	0.034	0	5000	0	0	0	21.11	20	23.3
461	0	0.034	0	5000	0	0	0	18.89	20	23.3
462	0	0.034	0	5000	0	0	0	19.39	20	23.3
463	0	0.034	0	5000	0	0	0	20	20	23.3
464	0	0.034	0	5000	0	0	0	23.89	20	23.3
465	0	0.034	0	5000	0	0	0	28.28	20	23.3
466	0	0.034	0	5000	0	0	0	29.39	20	23.3

467	0	0.034	0	5000	0	0	0	31.11	20	23.3
468	0	0.034	0	5000	0	0	0	32.78	20	23.3
469	0	0.034	0	5000	0	0	0	33.28	20	23.3
470	0	0.034	0	5000	0	0	0	35	20	23.3
471	0	0.034	0	5000	0	0	0	36.11	20	23.3
472	0	0.034	0	5000	0	0	0	36.72	20	23.3
473	0	0.034	0	5000	0	0	0	36.72	20	23.3
474	0	0.034	0	5000	0	0	0	36.72	20	23.3
475	0	0.034	0	5000	0	0	0	35.61	20	23.3
476	0	0.034	0	5000	0	0	0	31.72	20	23.3
477	0	0.034	0	5000	0	0	0	30.61	20	23.3
478	0	0.034	0	5000	0	0	0	26.11	20	23.3
479	0	0.034	0	5000	0	0	0	25.61	20	23.3
480	0	0.034	0	5000	0	0	0	21.11	20	23.3
481	0	0.034	0	5000	0	0	0	21.72	20	23.3
482	0	0.034	0	5000	0	0	0	20	20	23.3
483	0	0.034	0	5000	0	0	0	17.22	20	23.3
484	0	0.034	0	5000	0	0	0	17.78	20	23.3
485	0	0.034	0	5000	0	0	0	17.22	20	23.3
486	0	0.034	0	5000	0	0	0	17.22	20	23.3
487	0	0.034	0	5000	0	0	0	18.28	20	23.3
488	0	0.034	0	5000	0	0	0	22.78	20	23.3
489	0	0.034	0	5000	0	0	0	26.11	20	23.3
490	0	0.034	0	5000	0	0	0	30.61	20	23.3
491	0	0.034	0	5000	0	0	0	33.28	20	23.3
492	0	0.034	0	5000	0	0	0	34.39	20	23.3
493	0	0.034	0	5000	0	0	0	35.61	20	23.3
494	0	0.034	0	5000	0	0	0	37.78	20	23.3
495	0	0.034	0	5000	0	0	0	38.28	20	23.3
496	0	0.034	0	5000	0	0	0	38.28	20	23.3
497	0	0.034	0	5000	0	0	0	38.89	20	23.3
498	0	0.034	0	5000	0	0	0	37.78	20	23.3
499	0	0.034	0	5000	0	0	0	36.72	20	23.3
500	0	0.034	0	5000	0	0	0	34.39	20	23.3

501	0	0.034	0	5000	0	0	0	31.11	20	23.3
502	0	0.034	0	5000	0	0	0	29.39	20	23.3
503	0	0.034	0	5000	0	0	0	26.72	20	23.3
504	0	0.034	0	5000	0	0	0	25	20	23.3
505	0	0.034	0	5000	0	0	0	22.78	20	23.3
506	0	0.034	0	5000	0	0	0	22.22	20	23.3
507	0	0.034	0	5000	0	0	0	21.72	20	23.3
508	0	0.034	0	5000	0	0	0	19.39	20	23.3
509	0	0.034	0	5000	0	0	0	18.89	20	23.3
510	0	0.034	0	5000	0	0	0	18.89	20	23.3
511	0	0.034	0	5000	0	0	0	18.89	20	23.3
512	0	0.034	0	5000	0	0	0	25	20	23.3
513	0	0.034	0	5000	0	0	0	27.22	20	23.3
514	0	0.034	0	5000	0	0	0	31.11	20	23.3
515	0	0.034	0	5000	0	0	0	33.89	20	23.3
516	0	0.034	0	5000	0	0	0	35	20	23.3
517	0	0.034	0	5000	0	0	0	36.72	20	23.3
518	0	0.034	0	5000	0	0	0	38.28	20	23.3
519	0	0.034	0	5000	0	0	0	37.78	20	23.3
520	0	0.034	0	5000	0	0	0	38.28	20	23.3
521	0	0.034	0	5000	0	0	0	38.89	20	23.3
522	0	0.034	0	5000	0	0	0	37.78	20	23.3
523	0	0.034	0	5000	0	0	0	36.72	20	23.3
524	0	0.034	0	5000	0	0	0	35	20	23.3
525	0	0.034	0	5000	0	0	0	31.11	20	23.3
526	0	0.034	0	5000	0	0	0	30	20	23.3
527	0	0.034	0	5000	0	0	0	30	20	23.3
528	0	0.034	0	5000	0	0	0	25	20	23.3
529	0	0.034	0	5000	0	0	0	25	20	23.3
530	0	0.034	0	5000	0	0	0	23.89	20	23.3
531	0	0.034	0	5000	0	0	0	23.89	20	23.3
532	0	0.034	0	5000	0	0	0	20.61	20	23.3
533	0	0.034	0	5000	0	0	0	21.11	20	23.3
534	0	0.034	0	5000	0	0	0	21.72	20	23.3

535	0	0.034	0	5000	0	0	0	21.11	20	23.3
536	0	0.034	0	5000	0	0	0	26.11	20	23.3
537	0	0.034	0	5000	0	0	0	27.78	20	23.3
538	0	0.034	0	5000	0	0	0	30	20	23.3
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542	0	0.034	0	5000	0	0	0	36.11	20	23.3
543	0	0.034	0	5000	0	0	0	36.11	20	23.3
544	0	0.034	0	5000	0	0	0	36.72	20	23.3
545	0	0.034	0	5000	0	0	0	37.22	20	23.3
546	0	0.034	0	5000	0	0	0	37.22	20	23.3
547	0	0.034	0	5000	0	0	0	36.11	20	23.3
548	0	0.034	0	5000	0	0	0	33.89	20	23.3
549	0	0.034	0	5000	0	0	0	33.28	20	23.3
550	0	0.034	0	5000	0	0	0	30	20	23.3
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552	0	0.034	0	5000	0	0	0	24.39	20	23.3
553	0	0.034	0	5000	0	0	0	24.39	20	23.3
554	0	0.034	0	5000	0	0	0	25	20	23.3
555	0	0.034	0	5000	0	0	0	22.22	20	23.3
556	0	0.034	0	5000	0	0	0	21.72	20	23.3
557	0	0.034	0	5000	0	0	0	20	20	23.3
558	0	0.034	0	5000	0	0	0	18.89	20	23.3
559	0	0.034	0	5000	0	0	0	20	20	23.3
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561	0	0.034	0	5000	0	0	0	28.89	20	23.3
562	0	0.034	0	5000	0	0	0	31.72	20	23.3
563	0	0.034	0	5000	0	0	0	33.89	20	23.3
564	0	0.034	0	5000	0	0	0	35.61	20	23.3
565	0	0.034	0	5000	0	0	0	37.22	20	23.3
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567	0	0.034	0	5000	0	0	0	37.22	20	23.3
568	0	0.034	0	5000	0	0	0	38.28	20	23.3

569	0	0.034	0	5000	0	0	0	38.28	20	23.3
570	0	0.034	0	5000	0	0	0	37.78	20	23.3
571	0	0.034	0	5000	0	0	0	36.72	20	23.3
572	0	0.034	0	5000	0	0	0	33.28	20	23.3
573	0	0.034	0	5000	0	0	0	32.22	20	23.3
574	0	0.034	0	5000	0	0	0	30	20	23.3
575	0	0.034	0	5000	0	0	0	27.78	20	23.3
576	0	0.034	0	5000	0	0	0	27.22	20	23.3
577	0	0.034	0	5000	0	0	0	25.61	20	23.3
578	0	0.034	0	5000	0	0	0	27.22	20	23.3
579	0	0.034	0	5000	0	0	0	23.89	20	23.3
580	0	0.034	0	5000	0	0	0	21.72	20	23.3
581	0	0.034	0	5000	0	0	0	22.22	20	23.3
582	0	0.034	0	5000	0	0	0	21.11	20	23.3
583	0	0.034	0	5000	0	0	0	23.28	20	23.3
584	0	0.034	0	5000	0	0	0	26.11	20	23.3
585	0	0.034	0	5000	0	0	0	29.39	20	23.3
586	0	0.034	0	5000	0	0	0	33.89	20	23.3
587	0	0.034	0	5000	0	0	0	35	20	23.3
588	0	0.034	0	5000	0	0	0	36.11	20	23.3
589	0	0.034	0	5000	0	0	0	36.72	20	23.3
590	0	0.034	0	5000	0	0	0	37.78	20	23.3
591	0	0.034	0	5000	0	0	0	35.61	20	23.3
592	0	0.034	0	5000	0	0	0	34.39	20	23.3
593	0	0.034	0	5000	0	0	0	30	20	23.3
594	0	0.034	0	5000	0	0	0	32.22	20	23.3
595	0	0.034	0	5000	0	0	0	31.72	20	23.3
596	0	0.034	0	5000	0	0	0	30	20	23.3
597	0	0.034	0	5000	0	0	0	28.89	20	23.3
598	0	0.034	0	5000	0	0	0	28.89	20	23.3
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600	0	0.034	0	5000	0	0	0	26.11	20	23.3
601	0	0.034	0	5000	0	0	0	26.11	20	23.3
602	0	0.034	0	5000	0	0	0	23.28	20	23.3

603	0	0.034	0	5000	0	0	0	23.89	20	23.3
604	0	0.034	0	5000	0	0	0	21.72	20	23.3
605	0	0.034	0	5000	0	0	0	21.72	20	23.3
606	0	0.034	0	5000	0	0	0	21.11	20	23.3
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623	0	0.034	0	5000	0	0	0	25.61	20	23.3
624	0	0.034	0	5000	0	0	0	25	20	23.3
625	0	0.034	0	5000	0	0	0	24.39	20	23.3
626	0	0.034	0	5000	0	0	0	22.78	20	23.3
627	0	0.034	0	5000	0	0	0	23.28	20	23.3
628	0	0.034	0	5000	0	0	0	23.28	20	23.3
629	0	0.034	0	5000	0	0	0	23.89	20	23.3
630	0	0.034	0	5000	0	0	0	22.78	20	23.3
631	0	0.034	0	5000	0	0	0	21.72	20	23.3
632	0	0.034	0	5000	0	0	0	23.28	20	23.3
633	0	0.034	0	5000	0	0	0	23.89	20	23.3
634	0	0.034	0	5000	0	0	0	25.61	20	23.3
635	0	0.034	0	5000	0	0	0	27.78	20	23.3
636	0	0.034	0	5000	0	0	0	28.28	20	23.3

637	0	0.034	0	5000	0	0	0	30.61	20	23.3
638	0	0.034	0	5000	0	0	0	31.11	20	23.3
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649	0	0.034	0	5000	0	0	0	25.61	20	23.3
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651	0	0.034	0	5000	0	0	0	23.28	20	23.3
652	0	0.034	0	5000	0	0	0	21.72	20	23.3
653	0	0.034	0	5000	0	0	0	21.11	20	23.3
654	0	0.034	0	5000	0	0	0	21.72	20	23.3
655	0	0.034	0	5000	0	0	0	21.72	20	23.3
656	0	0.034	0	5000	0	0	0	25	20	23.3
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663	0	0.034	0	5000	0	0	0	35	20	23.3
664	0	0.034	0	5000	0	0	0	36.11	20	23.3
665	0	0.034	0	5000	0	0	0	35.61	20	23.3
666	0	0.034	0	5000	0	0	0	35	20	23.3
667	0	0.034	0	5000	0	0	0	34.39	20	23.3
668	0	0.034	0	5000	0	0	0	33.28	20	23.3
669	0	0.034	0	5000	0	0	0	32.22	20	23.3
670	0	0.034	0	5000	0	0	0	31.11	20	23.3

671	0	0.034	0	5000	0	0	0	27.78	20	23.3
672	0	0.034	0	5000	0	0	0	28.89	20	23.3
673	0	0.034	0	5000	0	0	0	29.39	20	23.3
674	0	0.034	0	5000	0	0	0	27.78	20	23.3
675	0	0.034	0	5000	0	0	0	24.39	20	23.3
676	0	0.034	0	5000	0	0	0	23.89	20	23.3
677	0	0.034	0	5000	0	0	0	22.78	20	23.3
678	0	0.034	0	5000	0	0	0	21.72	20	23.3
679	0	0.034	0	5000	0	0	0	22.78	20	23.3
680	0	0.034	0	5000	0	0	0	26.11	20	23.3
681	0	0.034	0	5000	0	0	0	28.89	20	23.3
682	0	0.034	0	5000	0	0	0	31.11	20	23.3
683	0	0.034	0	5000	0	0	0	33.28	20	23.3
684	0	0.034	0	5000	0	0	0	35	20	23.3
685	0	0.034	0	5000	0	0	0	36.72	20	23.3
686	0	0.034	0	5000	0	0	0	37.22	20	23.3
687	0	0.034	0	5000	0	0	0	37.22	20	23.3
688	0	0.034	0	5000	0	0	0	37.78	20	23.3
689	0	0.034	0	5000	0	0	0	37.22	20	23.3
690	0	0.034	0	5000	0	0	0	37.22	20	23.3
691	0	0.034	0	5000	0	0	0	36.11	20	23.3
692	0	0.034	0	5000	0	0	0	34.39	20	23.3
693	0	0.034	0	5000	0	0	0	33.28	20	23.3
694	0	0.034	0	5000	0	0	0	30.61	20	23.3
695	0	0.034	0	5000	0	0	0	31.11	20	23.3
696	0	0.034	0	5000	0	0	0	28.28	20	23.3
697	0	0.034	0	5000	0	0	0	26.11	20	23.3
698	0	0.034	0	5000	0	0	0	27.78	20	23.3
699	0	0.034	0	5000	0	0	0	24.39	20	23.3
700	0	0.034	0	5000	0	0	0	25.61	20	23.3
701	0	0.034	0	5000	0	0	0	24.39	20	23.3
702	0	0.034	0	5000	0	0	0	23.89	20	23.3
703	0	0.034	0	5000	0	0	0	25	20	23.3
704	0	0.034	0	5000	0	0	0	27.22	20	23.3

705	0	0.034	0	5000	0	0	0	30.61	20	23.3
706	0	0.034	0	5000	0	0	0	32.78	20	23.3
707	0	0.034	0	5000	0	0	0	33.89	20	23.3
708	0	0.034	0	5000	0	0	0	33.28	20	23.3
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710	0	0.034	0	5000	0	0	0	32.22	20	23.3
711	0	0.034	0	5000	0	0	0	32.22	20	23.3
712	0	0.034	0	5000	0	0	0	31.72	20	23.3
713	0	0.034	0	5000	0	0	0	31.72	20	23.3
714	0	0.034	0	5000	0	0	0	32.22	20	23.3
715	0	0.034	0	5000	0	0	0	31.72	20	23.3
716	0	0.034	0	5000	0	0	0	30	20	23.3
717	0	0.034	0	5000	0	0	0	28.89	20	23.3
718	0	0.034	0	5000	0	0	0	28.28	20	23.3
719	0	0.034	0	5000	0	0	0	27.78	20	23.3
720	0	0.034	0	5000	0	0	0	27.22	20	23.3

end*** END OF INPUT FILE 'ATMOSPH.IN' *****

Qp1

Pcp_File_Version=4

*** BLOCK I: ATMOSPHERIC INFORMATION *****

MaxAL (MaxAL = number of atmospheric data-records)

720

DailyVar SinusVar IDummy IDummy IDummy IDummy IDummy IDummy IDummy IDummy

f f f f f t f f f f

hCritS (max. allowed pressure head at the soil surface)

0

tAtm	Prec	rSoil	rRoot	hCritA	rB	hB	ht	tTop	tBot	Ampl	RootDepth
1	0	0.034	0	5000	0	0	26.72	20	23.3		
2	0	0.034	0	5000	0	0	26.72	20	23.3		
3	0	0.034	0	5000	0	0	26.72	20	23.3		
4	0	0.034	0	5000	0	0	25.61	20	23.3		
5	0	0.034	0	5000	0	0	24.39	20	23.3		
6	0	0.034	0	5000	0	0	23.89	20	23.3		
7	0	0.034	0	5000	0	0	23.89	20	23.3		
8	0	0.034	0	5000	0	0	23.28	20	23.3		
9	0	0.034	0	5000	0	0	25	20	23.3		
10	0	0.034	0	5000	0	0	23.89	20	23.3		
11	0	0.034	0	5000	0	0	21.72	20	23.3		
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13	0	0.034	0	5000	0	0	21.72	20	23.3		
14	0	0.034	0	5000	0	0	22.78	20	23.3		
15	0	0.034	0	5000	0	0	23.89	20	23.3		
16	0	0.034	0	5000	0	0	25.61	20	23.3		
17	0	0.034	0	5000	0	0	24.39	20	23.3		
18	0	0.034	0	5000	0	0	22.78	20	23.3		
19	0	0.034	0	5000	0	0	22.78	20	23.3		
20	0	0.034	0	5000	0	0	22.22	20	23.3		
21	0	0.034	0	5000	0	0	22.78	20	23.3		
22	0	0.034	0	5000	0	0	22.22	20	23.3		
23	0	0.034	0	5000	0	0	22.78	20	23.3		
24	0	0.034	0	5000	0	0	22.22	20	23.3		

233

25	0	0.034	0	5000	0	0	0	21.72	20	23.3
26	0	0.034	0	5000	0	0	0	22.22	20	23.3
27	0	0.034	0	5000	0	0	0	21.72	20	23.3
28	0	0.034	0	5000	0	0	0	21.72	20	23.3
29	0	0.034	0	5000	0	0	0	21.11	20	23.3
30	0	0.034	0	5000	0	0	0	21.11	20	23.3
31	0	0.034	0	5000	0	0	0	22.22	20	23.3
32	0	0.034	0	5000	0	0	0	23.89	20	23.3
33	0	0.034	0	5000	0	0	0	25	20	23.3
34	0	0.034	0	5000	0	0	0	26.11	20	23.3
35	0	0.034	0	5000	0	0	0	27.78	20	23.3
36	0	0.034	0	5000	0	0	0	29.39	20	23.3
37	0	0.034	0	5000	0	0	0	30.61	20	23.3
38	0	0.034	0	5000	0	0	0	31.11	20	23.3
39	0	0.034	0	5000	0	0	0	32.22	20	23.3
40	0	0.034	0	5000	0	0	0	31.72	20	23.3
41	0	0.034	0	5000	0	0	0	31.72	20	23.3
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46	0	0.034	0	5000	0	0	0	23.89	20	23.3
47	0	0.034	0	5000	0	0	0	24.39	20	23.3
48	0	0.034	0	5000	0	0	0	23.28	20	23.3
49	0	0.034	0	5000	0	0	0	22.78	20	23.3
50	0	0.034	0	5000	0	0	0	22.78	20	23.3
51	0	0.034	0	5000	0	0	0	22.78	20	23.3
52	0	0.034	0	5000	0	0	0	21.11	20	23.3
53	0	0.034	0	5000	0	0	0	21.11	20	23.3
54	0	0.034	0	5000	0	0	0	20.61	20	23.3
55	0	0.034	0	5000	0	0	0	21.72	20	23.3
56	0	0.034	0	5000	0	0	0	24.39	20	23.3
57	0	0.034	0	5000	0	0	0	26.11	20	23.3
58	0	0.034	0	5000	0	0	0	28.89	20	23.3

59	0	0.034	0	5000	0	0	0	30.61	20	23.3
60	0	0.034	0	5000	0	0	0	32.22	20	23.3
61	0	0.034	0	5000	0	0	0	33.28	20	23.3
62	0	0.034	0	5000	0	0	0	33.89	20	23.3
63	0	0.034	0	5000	0	0	0	35.61	20	23.3
64	0	0.034	0	5000	0	0	0	36.11	20	23.3
65	0	0.034	0	5000	0	0	0	36.72	20	23.3
66	0	0.034	0	5000	0	0	0	36.11	20	23.3
67	0	0.034	0	5000	0	0	0	33.28	20	23.3
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71	0	0.034	0	5000	0	0	0	28.28	20	23.3
72	0	0.034	0	5000	0	0	0	26.11	20	23.3
73	0	0.034	0	5000	0	0	0	26.11	20	23.3
74	0	0.034	0	5000	0	0	0	25.61	20	23.3
75	0	0.034	0	5000	0	0	0	25	20	23.3
76	0	0.034	0	5000	0	0	0	23.28	20	23.3
77	0	0.034	0	5000	0	0	0	22.22	20	23.3
78	0	0.034	0	5000	0	0	0	20.61	20	23.3
79	0	0.034	0	5000	0	0	0	22.78	20	23.3
80	0	0.034	0	5000	0	0	0	26.72	20	23.3
81	0	0.034	0	5000	0	0	0	28.89	20	23.3
82	0	0.034	0	5000	0	0	0	32.22	20	23.3
83	0	0.034	0	5000	0	0	0	35	20	23.3
84	0	0.034	0	5000	0	0	0	35.61	20	23.3
85	0	0.034	0	5000	0	0	0	37.22	20	23.3
86	0	0.034	0	5000	0	0	0	37.22	20	23.3
87	0	0.034	0	5000	0	0	0	36.72	20	23.3
88	0	0.034	0	5000	0	0	0	37.22	20	23.3
89	0	0.034	0	5000	0	0	0	37.78	20	23.3
90	0	0.034	0	5000	0	0	0	37.22	20	23.3
91	0	0.034	0	5000	0	0	0	36.72	20	23.3
92	0	0.034	0	5000	0	0	0	35.61	20	23.3

93	0	0.034	0	5000	0	0	0	33.89	20	23.3
94	0	0.034	0	5000	0	0	0	32.22	20	23.3
95	0	0.034	0	5000	0	0	0	31.72	20	23.3
96	0	0.034	0	5000	0	0	0	31.72	20	23.3
97	0	0.034	0	5000	0	0	0	31.11	20	23.3
98	0	0.034	0	5000	0	0	0	28.89	20	23.3
99	0	0.034	0	5000	0	0	0	28.28	20	23.3
100	0	0.034	0	5000	0	0	0	27.22	20	23.3
101	0	0.034	0	5000	0	0	0	25.61	20	23.3
102	0	0.034	0	5000	0	0	0	23.89	20	23.3
103	0	0.034	0	5000	0	0	0	26.11	20	23.3
104	0	0.034	0	5000	0	0	0	28.28	20	23.3
105	0	0.034	0	5000	0	0	0	31.11	20	23.3
106	0	0.034	0	5000	0	0	0	33.89	20	23.3
107	0	0.034	0	5000	0	0	0	34.39	20	23.3
108	0	0.034	0	5000	0	0	0	35.61	20	23.3
109	0	0.034	0	5000	0	0	0	36.11	20	23.3
110	0	0.034	0	5000	0	0	0	35.61	20	23.3
111	0	0.034	0	5000	0	0	0	36.11	20	23.3
112	0	0.034	0	5000	0	0	0	36.72	20	23.3
113	0	0.034	0	5000	0	0	0	36.11	20	23.3
114	0	0.034	0	5000	0	0	0	35.61	20	23.3
115	0	0.034	0	5000	0	0	0	34.39	20	23.3
116	0	0.034	0	5000	0	0	0	32.78	20	23.3
117	0	0.034	0	5000	0	0	0	31.11	20	23.3
118	0	0.034	0	5000	0	0	0	30.61	20	23.3
119	0	0.034	0	5000	0	0	0	30	20	23.3
120	0	0.034	0	5000	0	0	0	28.89	20	23.3
121	0	0.034	0	5000	0	0	0	27.78	20	23.3
122	0	0.034	0	5000	0	0	0	25.61	20	23.3
123	0	0.034	0	5000	0	0	0	23.28	20	23.3
124	0	0.034	0	5000	0	0	0	23.89	20	23.3
125	0	0.034	0	5000	0	0	0	23.28	20	23.3
126	0	0.034	0	5000	0	0	0	22.78	20	23.3

127	0	0.034	0	5000	0	0	0	22.78	20	23.3
128	0	0.034	0	5000	0	0	0	24.39	20	23.3
129	0	0.034	0	5000	0	0	0	27.22	20	23.3
130	0	0.034	0	5000	0	0	0	29.39	20	23.3
131	0	0.034	0	5000	0	0	0	31.11	20	23.3
132	0	0.034	0	5000	0	0	0	32.22	20	23.3
133	0	0.034	0	5000	0	0	0	33.28	20	23.3
134	0	0.034	0	5000	0	0	0	33.89	20	23.3
135	0	0.034	0	5000	0	0	0	33.89	20	23.3
136	0	0.034	0	5000	0	0	0	33.89	20	23.3
137	0	0.034	0	5000	0	0	0	33.89	20	23.3
138	0	0.034	0	5000	0	0	0	33.89	20	23.3
139	0	0.034	0	5000	0	0	0	32.78	20	23.3
140	0	0.034	0	5000	0	0	0	30.61	20	23.3
141	0	0.034	0	5000	0	0	0	28.89	20	23.3
142	0	0.034	0	5000	0	0	0	25.61	20	23.3
143	0	0.034	0	5000	0	0	0	22.78	20	23.3
144	0	0.034	0	5000	0	0	0	22.78	20	23.3
145	0	0.034	0	5000	0	0	0	22.78	20	23.3
146	0	0.034	0	5000	0	0	0	21.11	20	23.3
147	0	0.034	0	5000	0	0	0	20.61	20	23.3
148	0	0.034	0	5000	0	0	0	18.28	20	23.3
149	0	0.034	0	5000	0	0	0	16.72	20	23.3
150	0	0.034	0	5000	0	0	0	16.72	20	23.3
151	0	0.034	0	5000	0	0	0	17.78	20	23.3
152	0	0.034	0	5000	0	0	0	21.72	20	23.3
153	0	0.034	0	5000	0	0	0	24.39	20	23.3
154	0	0.034	0	5000	0	0	0	26.11	20	23.3
155	0	0.034	0	5000	0	0	0	28.28	20	23.3
156	0	0.034	0	5000	0	0	0	28.89	20	23.3
157	0	0.034	0	5000	0	0	0	31.11	20	23.3
158	0	0.034	0	5000	0	0	0	32.78	20	23.3
159	0	0.034	0	5000	0	0	0	33.89	20	23.3
160	0	0.034	0	5000	0	0	0	33.89	20	23.3

161	0	0.034	0	5000	0	0	0	33.89	20	23.3
162	0	0.034	0	5000	0	0	0	33.89	20	23.3
163	0	0.034	0	5000	0	0	0	32.78	20	23.3
164	0	0.034	0	5000	0	0	0	30.61	20	23.3
165	0	0.034	0	5000	0	0	0	29.39	20	23.3
166	0	0.034	0	5000	0	0	0	26.72	20	23.3
167	0	0.034	0	5000	0	0	0	26.72	20	23.3
168	0	0.034	0	5000	0	0	0	23.28	20	23.3
169	0	0.034	0	5000	0	0	0	23.89	20	23.3
170	0	0.034	0	5000	0	0	0	19.39	20	23.3
171	0	0.034	0	5000	0	0	0	17.78	20	23.3
172	0	0.034	0	5000	0	0	0	19.39	20	23.3
173	0	0.034	0	5000	0	0	0	17.22	20	23.3
174	0	0.034	0	5000	0	0	0	15.61	20	23.3
175	0	0.034	0	5000	0	0	0	17.78	20	23.3
176	0	0.034	0	5000	0	0	0	22.22	20	23.3
177	0	0.034	0	5000	0	0	0	25	20	23.3
178	0	0.034	0	5000	0	0	0	28.28	20	23.3
179	0	0.034	0	5000	0	0	0	31.72	20	23.3
180	0	0.034	0	5000	0	0	0	32.22	20	23.3
181	0	0.034	0	5000	0	0	0	33.28	20	23.3
182	0	0.034	0	5000	0	0	0	33.89	20	23.3
183	0	0.034	0	5000	0	0	0	34.39	20	23.3
184	0	0.034	0	5000	0	0	0	35	20	23.3
185	0	0.034	0	5000	0	0	0	35.61	20	23.3
186	0	0.034	0	5000	0	0	0	35	20	23.3
187	0	0.034	0	5000	0	0	0	33.89	20	23.3
188	0	0.034	0	5000	0	0	0	31.72	20	23.3
189	0	0.034	0	5000	0	0	0	30.61	20	23.3
190	0	0.034	0	5000	0	0	0	28.89	20	23.3
191	0	0.034	0	5000	0	0	0	25.61	20	23.3
192	0	0.034	0	5000	0	0	0	27.22	20	23.3
193	0	0.034	0	5000	0	0	0	22.22	20	23.3
194	0	0.034	0	5000	0	0	0	19.39	20	23.3

195	0	0.034	0	5000	0	0	0	20.61	20	23.3
196	0	0.034	0	5000	0	0	0	20	20	23.3
197	0	0.034	0	5000	0	0	0	18.89	20	23.3
198	0	0.034	0	5000	0	0	0	16.72	20	23.3
199	0	0.034	0	5000	0	0	0	19.39	20	23.3
200	0	0.034	0	5000	0	0	0	23.89	20	23.3
201	0	0.034	0	5000	0	0	0	26.72	20	23.3
202	0	0.034	0	5000	0	0	0	29.39	20	23.3
203	0	0.034	0	5000	0	0	0	32.22	20	23.3
204	0	0.034	0	5000	0	0	0	32.78	20	23.3
205	0	0.034	0	5000	0	0	0	33.28	20	23.3
206	0	0.034	0	5000	0	0	0	35	20	23.3
207	0	0.034	0	5000	0	0	0	36.72	20	23.3
208	0	0.034	0	5000	0	0	0	36.11	20	23.3
209	0	0.034	0	5000	0	0	0	36.11	20	23.3
210	0	0.034	0	5000	0	0	0	35.61	20	23.3
211	0	0.034	0	5000	0	0	0	33.89	20	23.3
212	0	0.034	0	5000	0	0	0	32.22	20	23.3
213	0	0.034	0	5000	0	0	0	30.61	20	23.3
214	0	0.034	0	5000	0	0	0	28.28	20	23.3
215	0	0.034	0	5000	0	0	0	24.39	20	23.3
216	0	0.034	0	5000	0	0	0	26.72	20	23.3
217	0	0.034	0	5000	0	0	0	24.39	20	23.3
218	0	0.034	0	5000	0	0	0	23.89	20	23.3
219	0	0.034	0	5000	0	0	0	21.11	20	23.3
220	0	0.034	0	5000	0	0	0	21.72	20	23.3
221	0	0.034	0	5000	0	0	0	20	20	23.3
222	0	0.034	0	5000	0	0	0	17.78	20	23.3
223	0	0.034	0	5000	0	0	0	19.39	20	23.3
224	0	0.034	0	5000	0	0	0	22.78	20	23.3
225	0	0.034	0	5000	0	0	0	26.11	20	23.3
226	0	0.034	0	5000	0	0	0	29.39	20	23.3
227	0	0.034	0	5000	0	0	0	32.22	20	23.3
228	0	0.034	0	5000	0	0	0	32.78	20	23.3

229	0	0.034	0	5000	0	0	0	33.89	20	23.3
230	0	0.034	0	5000	0	0	0	35	20	23.3
231	0	0.034	0	5000	0	0	0	35.61	20	23.3
232	0	0.034	0	5000	0	0	0	36.72	20	23.3
233	0	0.034	0	5000	0	0	0	37.22	20	23.3
234	0	0.034	0	5000	0	0	0	36.11	20	23.3
235	0	0.034	0	5000	0	0	0	35	20	23.3
236	0	0.034	0	5000	0	0	0	32.78	20	23.3
237	0	0.034	0	5000	0	0	0	30.61	20	23.3
238	0	0.034	0	5000	0	0	0	30	20	23.3
239	0	0.034	0	5000	0	0	0	27.22	20	23.3
240	0	0.034	0	5000	0	0	0	25	20	23.3
241	0	0.034	0	5000	0	0	0	25	20	23.3
242	0	0.034	0	5000	0	0	0	23.89	20	23.3
243	0	0.034	0	5000	0	0	0	22.22	20	23.3
244	0	0.034	0	5000	0	0	0	20	20	23.3
245	0	0.034	0	5000	0	0	0	20	20	23.3
246	0	0.034	0	5000	0	0	0	18.28	20	23.3
247	0	0.034	0	5000	0	0	0	20.61	20	23.3
248	0	0.034	0	5000	0	0	0	23.89	20	23.3
249	0	0.034	0	5000	0	0	0	27.22	20	23.3
250	0	0.034	0	5000	0	0	0	32.78	20	23.3
251	0	0.034	0	5000	0	0	0	33.28	20	23.3
252	0	0.034	0	5000	0	0	0	35.61	20	23.3
253	0	0.034	0	5000	0	0	0	35.61	20	23.3
254	0	0.034	0	5000	0	0	0	36.11	20	23.3
255	0	0.034	0	5000	0	0	0	36.72	20	23.3
256	0	0.034	0	5000	0	0	0	37.78	20	23.3
257	0	0.034	0	5000	0	0	0	37.78	20	23.3
258	0	0.034	0	5000	0	0	0	36.72	20	23.3
259	0	0.034	0	5000	0	0	0	35.61	20	23.3
260	0	0.034	0	5000	0	0	0	33.89	20	23.3
261	0	0.034	0	5000	0	0	0	32.78	20	23.3
262	0	0.034	0	5000	0	0	0	30	20	23.3

263	0	0.034	0	5000	0	0	0	29.39	20	23.3
264	0	0.034	0	5000	0	0	0	28.28	20	23.3
265	0	0.034	0	5000	0	0	0	27.78	20	23.3
266	0	0.034	0	5000	0	0	0	26.72	20	23.3
267	0	0.034	0	5000	0	0	0	24.39	20	23.3
268	0	0.034	0	5000	0	0	0	23.89	20	23.3
269	0	0.034	0	5000	0	0	0	22.22	20	23.3
270	0	0.034	0	5000	0	0	0	22.78	20	23.3
271	0	0.034	0	5000	0	0	0	24.39	20	23.3
272	0	0.034	0	5000	0	0	0	27.22	20	23.3
273	0	0.034	0	5000	0	0	0	30	20	23.3
274	0	0.034	0	5000	0	0	0	32.78	20	23.3
275	0	0.034	0	5000	0	0	0	33.89	20	23.3
276	0	0.034	0	5000	0	0	0	34.39	20	23.3
277	0	0.034	0	5000	0	0	0	35.61	20	23.3
278	0	0.034	0	5000	0	0	0	36.72	20	23.3
279	0	0.034	0	5000	0	0	0	37.22	20	23.3
280	0	0.034	0	5000	0	0	0	37.78	20	23.3
281	0	0.034	0	5000	0	0	0	37.78	20	23.3
282	0	0.034	0	5000	0	0	0	37.78	20	23.3
283	0	0.034	0	5000	0	0	0	36.72	20	23.3
284	0	0.034	0	5000	0	0	0	35	20	23.3
285	0	0.034	0	5000	0	0	0	33.89	20	23.3
286	0	0.034	0	5000	0	0	0	32.78	20	23.3
287	0	0.034	0	5000	0	0	0	31.11	20	23.3
288	0	0.034	0	5000	0	0	0	31.72	20	23.3
289	0	0.034	0	5000	0	0	0	27.78	20	23.3
290	0	0.034	0	5000	0	0	0	25	20	23.3
291	0	0.034	0	5000	0	0	0	25.61	20	23.3
292	0	0.034	0	5000	0	0	0	25.61	20	23.3
293	0	0.034	0	5000	0	0	0	23.89	20	23.3
294	0	0.034	0	5000	0	0	0	23.89	20	23.3
295	0	0.034	0	5000	0	0	0	23.89	20	23.3
296	0	0.034	0	5000	0	0	0	27.22	20	23.3

297	0	0.034	0	5000	0	0	0	30.61	20	23.3
298	0	0.034	0	5000	0	0	0	33.28	20	23.3
299	0	0.034	0	5000	0	0	0	35	20	23.3
300	0	0.034	0	5000	0	0	0	37.22	20	23.3
301	0	0.034	0	5000	0	0	0	38.28	20	23.3
302	0	0.034	0	5000	0	0	0	38.28	20	23.3
303	0	0.034	0	5000	0	0	0	38.28	20	23.3
304	0	0.034	0	5000	0	0	0	38.89	20	23.3
305	0	0.034	0	5000	0	0	0	38.89	20	23.3
306	0	0.034	0	5000	0	0	0	38.28	20	23.3
307	0	0.034	0	5000	0	0	0	37.22	20	23.3
308	0	0.034	0	5000	0	0	0	35	20	23.3
309	0	0.034	0	5000	0	0	0	34.39	20	23.3
310	0	0.034	0	5000	0	0	0	30.61	20	23.3
311	0	0.034	0	5000	0	0	0	30.61	20	23.3
312	0	0.034	0	5000	0	0	0	28.89	20	23.3
313	0	0.034	0	5000	0	0	0	26.72	20	23.3
314	0	0.034	0	5000	0	0	0	24.39	20	23.3
315	0	0.034	0	5000	0	0	0	25.61	20	23.3
316	0	0.034	0	5000	0	0	0	23.28	20	23.3
317	0	0.034	0	5000	0	0	0	21.72	20	23.3
318	0	0.034	0	5000	0	0	0	22.22	20	23.3
319	0	0.034	0	5000	0	0	0	23.28	20	23.3
320	0	0.034	0	5000	0	0	0	25.61	20	23.3
321	0	0.034	0	5000	0	0	0	32.22	20	23.3
322	0	0.034	0	5000	0	0	0	33.89	20	23.3
323	0	0.034	0	5000	0	0	0	36.11	20	23.3
324	0	0.034	0	5000	0	0	0	36.11	20	23.3
325	0	0.034	0	5000	0	0	0	36.72	20	23.3
326	0	0.034	0	5000	0	0	0	37.22	20	23.3
327	0	0.034	0	5000	0	0	0	37.78	20	23.3
328	0	0.034	0	5000	0	0	0	36.72	20	23.3
329	0	0.034	0	5000	0	0	0	37.22	20	23.3
330	0	0.034	0	5000	0	0	0	36.72	20	23.3

331	0	0.034	0	5000	0	0	0	35.61	20	23.3
332	0	0.034	0	5000	0	0	0	33.89	20	23.3
333	0	0.034	0	5000	0	0	0	32.22	20	23.3
334	0	0.034	0	5000	0	0	0	30.61	20	23.3
335	0	0.034	0	5000	0	0	0	28.89	20	23.3
336	0	0.034	0	5000	0	0	0	26.72	20	23.3
337	0	0.034	0	5000	0	0	0	25.61	20	23.3
338	0	0.034	0	5000	0	0	0	25	20	23.3
339	0	0.034	0	5000	0	0	0	24.39	20	23.3
340	0	0.034	0	5000	0	0	0	23.28	20	23.3
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342	0	0.034	0	5000	0	0	0	22.78	20	23.3
343	0	0.034	0	5000	0	0	0	22.22	20	23.3
344	0	0.034	0	5000	0	0	0	26.72	20	23.3
345	0	0.034	0	5000	0	0	0	28.89	20	23.3
346	0	0.034	0	5000	0	0	0	32.78	20	23.3
347	0	0.034	0	5000	0	0	0	34.39	20	23.3
348	0	0.034	0	5000	0	0	0	36.72	20	23.3
349	0	0.034	0	5000	0	0	0	36.72	20	23.3
350	0	0.034	0	5000	0	0	0	37.78	20	23.3
351	0	0.034	0	5000	0	0	0	36.72	20	23.3
352	0	0.034	0	5000	0	0	0	37.78	20	23.3
353	0	0.034	0	5000	0	0	0	37.78	20	23.3
354	0	0.034	0	5000	0	0	0	37.78	20	23.3
355	0	0.034	0	5000	0	0	0	36.72	20	23.3
356	0	0.034	0	5000	0	0	0	35	20	23.3
357	0	0.034	0	5000	0	0	0	33.28	20	23.3
358	0	0.034	0	5000	0	0	0	31.11	20	23.3
359	0	0.034	0	5000	0	0	0	30.61	20	23.3
360	0	0.034	0	5000	0	0	0	27.78	20	23.3
361	0	0.034	0	5000	0	0	0	27.78	20	23.3
362	0	0.034	0	5000	0	0	0	25.61	20	23.3
363	0	0.034	0	5000	0	0	0	23.28	20	23.3
364	0	0.034	0	5000	0	0	0	23.89	20	23.3

365	0	0.034	0	5000	0	0	0	24.39	20	23.3
366	0	0.034	0	5000	0	0	0	23.89	20	23.3
367	0	0.034	0	5000	0	0	0	23.89	20	23.3
368	0	0.034	0	5000	0	0	0	27.78	20	23.3
369	0	0.034	0	5000	0	0	0	31.11	20	23.3
370	0	0.034	0	5000	0	0	0	32.78	20	23.3
371	0	0.034	0	5000	0	0	0	36.11	20	23.3
372	0	0.034	0	5000	0	0	0	37.22	20	23.3
373	0	0.034	0	5000	0	0	0	36.11	20	23.3
374	0	0.034	0	5000	0	0	0	38.28	20	23.3
375	0	0.034	0	5000	0	0	0	37.78	20	23.3
376	0	0.034	0	5000	0	0	0	38.89	20	23.3
377	0	0.034	0	5000	0	0	0	38.28	20	23.3
378	0	0.034	0	5000	0	0	0	36.11	20	23.3
379	0	0.034	0	5000	0	0	0	36.72	20	23.3
380	0	0.034	0	5000	0	0	0	35	20	23.3
381	0	0.034	0	5000	0	0	0	33.89	20	23.3
382	0	0.034	0	5000	0	0	0	31.72	20	23.3
383	0	0.034	0	5000	0	0	0	30	20	23.3
384	0	0.034	0	5000	0	0	0	28.89	20	23.3
385	0	0.034	0	5000	0	0	0	29.39	20	23.3
386	0	0.034	0	5000	0	0	0	27.22	20	23.3
387	0	0.034	0	5000	0	0	0	26.11	20	23.3
388	0	0.034	0	5000	0	0	0	25	20	23.3
389	0	0.034	0	5000	0	0	0	25	20	23.3
390	0	0.034	0	5000	0	0	0	25	20	23.3
391	0	0.034	0	5000	0	0	0	24.39	20	23.3
392	0	0.034	0	5000	0	0	0	27.78	20	23.3
393	0	0.034	0	5000	0	0	0	32.78	20	23.3
394	0	0.034	0	5000	0	0	0	33.89	20	23.3
395	0	0.034	0	5000	0	0	0	35.61	20	23.3
396	0	0.034	0	5000	0	0	0	36.11	20	23.3
397	0	0.034	0	5000	0	0	0	35.61	20	23.3
398	0	0.034	0	5000	0	0	0	37.78	20	23.3

399	0	0.034	0	5000	0	0	0	38.28	20	23.3
400	0	0.034	0	5000	0	0	0	37.22	20	23.3
401	0	0.034	0	5000	0	0	0	36.72	20	23.3
402	0	0.034	0	5000	0	0	0	36.11	20	23.3
403	0	0.034	0	5000	0	0	0	32.78	20	23.3
404	0	0.034	0	5000	0	0	0	30	20	23.3
405	0	0.034	0	5000	0	0	0	28.28	20	23.3
406	0	0.034	0	5000	0	0	0	28.28	20	23.3
407	0	0.034	0	5000	0	0	0	29.39	20	23.3
408	0	0.034	0	5000	0	0	0	28.89	20	23.3
409	0	0.034	0	5000	0	0	0	28.89	20	23.3
410	0	0.034	0	5000	0	0	0	27.78	20	23.3
411	0	0.034	0	5000	0	0	0	28.28	20	23.3
412	0	0.034	0	5000	0	0	0	26.72	20	23.3
413	0	0.034	0	5000	0	0	0	26.72	20	23.3
414	0	0.034	0	5000	0	0	0	26.11	20	23.3
415	0	0.034	0	5000	0	0	0	26.11	20	23.3
416	0	0.034	0	5000	0	0	0	28.28	20	23.3
417	0	0.034	0	5000	0	0	0	31.11	20	23.3
418	0	0.034	0	5000	0	0	0	32.78	20	23.3
419	0	0.034	0	5000	0	0	0	33.89	20	23.3
420	0	0.034	0	5000	0	0	0	35.61	20	23.3
421	0	0.034	0	5000	0	0	0	35.61	20	23.3
422	0	0.034	0	5000	0	0	0	36.72	20	23.3
423	0	0.034	0	5000	0	0	0	37.78	20	23.3
424	0	0.034	0	5000	0	0	0	37.78	20	23.3
425	0	0.034	0	5000	0	0	0	37.78	20	23.3
426	0	0.034	0	5000	0	0	0	36.72	20	23.3
427	0	0.034	0	5000	0	0	0	35	20	23.3
428	0	0.034	0	5000	0	0	0	33.89	20	23.3
429	0	0.034	0	5000	0	0	0	33.28	20	23.3
430	0	0.034	0	5000	0	0	0	32.78	20	23.3
431	0	0.034	0	5000	0	0	0	30	20	23.3
432	0	0.034	0	5000	0	0	0	31.11	20	23.3

433	0	0.034	0	5000	0	0	0	30	20	23.3
434	0	0.034	0	5000	0	0	0	28.28	20	23.3
435	0	0.034	0	5000	0	0	0	30	20	23.3
436	0	0.034	0	5000	0	0	0	27.78	20	23.3
437	0	0.034	0	5000	0	0	0	27.78	20	23.3
438	0	0.034	0	5000	0	0	0	29.39	20	23.3
439	0	0.034	0	5000	0	0	0	26.72	20	23.3
440	0	0.034	0	5000	0	0	0	29.39	20	23.3
441	0	0.034	0	5000	0	0	0	31.11	20	23.3
442	0	0.034	0	5000	0	0	0	33.89	20	23.3
443	0	0.034	0	5000	0	0	0	35	20	23.3
444	0	0.034	0	5000	0	0	0	36.11	20	23.3
445	0	0.034	0	5000	0	0	0	36.72	20	23.3
446	0	0.034	0	5000	0	0	0	37.78	20	23.3
447	0	0.034	0	5000	0	0	0	37.22	20	23.3
448	0	0.034	0	5000	0	0	0	37.22	20	23.3
449	0	0.034	0	5000	0	0	0	37.22	20	23.3
450	0	0.034	0	5000	0	0	0	36.11	20	23.3
451	0	0.034	0	5000	0	0	0	35	20	23.3
452	0	0.034	0	5000	0	0	0	33.28	20	23.3
453	0	0.034	0	5000	0	0	0	32.78	20	23.3
454	0	0.034	0	5000	0	0	0	29.39	20	23.3
455	0	0.034	0	5000	0	0	0	28.89	20	23.3
456	0	0.034	0	5000	0	0	0	27.22	20	23.3
457	0	0.034	0	5000	0	0	0	23.89	20	23.3
458	0	0.034	0	5000	0	0	0	25	20	23.3
459	0	0.034	0	5000	0	0	0	21.72	20	23.3
460	0	0.034	0	5000	0	0	0	21.11	20	23.3
461	0	0.034	0	5000	0	0	0	18.89	20	23.3
462	0	0.034	0	5000	0	0	0	19.39	20	23.3
463	0	0.034	0	5000	0	0	0	20	20	23.3
464	0	0.034	0	5000	0	0	0	23.89	20	23.3
465	0	0.034	0	5000	0	0	0	28.28	20	23.3
466	0	0.034	0	5000	0	0	0	29.39	20	23.3

467	0	0.034	0	5000	0	0	0	31.11	20	23.3
468	0	0.034	0	5000	0	0	0	32.78	20	23.3
469	0	0.034	0	5000	0	0	0	33.28	20	23.3
470	0	0.034	0	5000	0	0	0	35	20	23.3
471	0	0.034	0	5000	0	0	0	36.11	20	23.3
472	0	0.034	0	5000	0	0	0	36.72	20	23.3
473	0	0.034	0	5000	0	0	0	36.72	20	23.3
474	0	0.034	0	5000	0	0	0	36.72	20	23.3
475	0	0.034	0	5000	0	0	0	35.61	20	23.3
476	0	0.034	0	5000	0	0	0	31.72	20	23.3
477	0	0.034	0	5000	0	0	0	30.61	20	23.3
478	0	0.034	0	5000	0	0	0	26.11	20	23.3
479	0	0.034	0	5000	0	0	0	25.61	20	23.3
480	0	0.034	0	5000	0	0	0	21.11	20	23.3
481	0	0.034	0	5000	0	0	0	21.72	20	23.3
482	0	0.034	0	5000	0	0	0	20	20	23.3
483	0	0.034	0	5000	0	0	0	17.22	20	23.3
484	0	0.034	0	5000	0	0	0	17.78	20	23.3
485	0	0.034	0	5000	0	0	0	17.22	20	23.3
486	0	0.034	0	5000	0	0	0	17.22	20	23.3
487	0	0.034	0	5000	0	0	0	18.28	20	23.3
488	0	0.034	0	5000	0	0	0	22.78	20	23.3
489	0	0.034	0	5000	0	0	0	26.11	20	23.3
490	0	0.034	0	5000	0	0	0	30.61	20	23.3
491	0	0.034	0	5000	0	0	0	33.28	20	23.3
492	0	0.034	0	5000	0	0	0	34.39	20	23.3
493	0	0.034	0	5000	0	0	0	35.61	20	23.3
494	0	0.034	0	5000	0	0	0	37.78	20	23.3
495	0	0.034	0	5000	0	0	0	38.28	20	23.3
496	0	0.034	0	5000	0	0	0	38.28	20	23.3
497	0	0.034	0	5000	0	0	0	38.89	20	23.3
498	0	0.034	0	5000	0	0	0	37.78	20	23.3
499	0	0.034	0	5000	0	0	0	36.72	20	23.3
500	0	0.034	0	5000	0	0	0	34.39	20	23.3

501	0	0.034	0	5000	0	0	0	31.11	20	23.3
502	0	0.034	0	5000	0	0	0	29.39	20	23.3
503	0	0.034	0	5000	0	0	0	26.72	20	23.3
504	0	0.034	0	5000	0	0	0	25	20	23.3
505	0	0.034	0	5000	0	0	0	22.78	20	23.3
506	0	0.034	0	5000	0	0	0	22.22	20	23.3
507	0	0.034	0	5000	0	0	0	21.72	20	23.3
508	0	0.034	0	5000	0	0	0	19.39	20	23.3
509	0	0.034	0	5000	0	0	0	18.89	20	23.3
510	0	0.034	0	5000	0	0	0	18.89	20	23.3
511	0	0.034	0	5000	0	0	0	18.89	20	23.3
512	0	0.034	0	5000	0	0	0	25	20	23.3
513	0	0.034	0	5000	0	0	0	27.22	20	23.3
514	0	0.034	0	5000	0	0	0	31.11	20	23.3
515	0	0.034	0	5000	0	0	0	33.89	20	23.3
516	0	0.034	0	5000	0	0	0	35	20	23.3
517	0	0.034	0	5000	0	0	0	36.72	20	23.3
518	0	0.034	0	5000	0	0	0	38.28	20	23.3
519	0	0.034	0	5000	0	0	0	37.78	20	23.3
520	0	0.034	0	5000	0	0	0	38.28	20	23.3
521	0	0.034	0	5000	0	0	0	38.89	20	23.3
522	0	0.034	0	5000	0	0	0	37.78	20	23.3
523	0	0.034	0	5000	0	0	0	36.72	20	23.3
524	0	0.034	0	5000	0	0	0	35	20	23.3
525	0	0.034	0	5000	0	0	0	31.11	20	23.3
526	0	0.034	0	5000	0	0	0	30	20	23.3
527	0	0.034	0	5000	0	0	0	30	20	23.3
528	0	0.034	0	5000	0	0	0	25	20	23.3
529	0	0.034	0	5000	0	0	0	25	20	23.3
530	0	0.034	0	5000	0	0	0	23.89	20	23.3
531	0	0.034	0	5000	0	0	0	23.89	20	23.3
532	0	0.034	0	5000	0	0	0	20.61	20	23.3
533	0	0.034	0	5000	0	0	0	21.11	20	23.3
534	0	0.034	0	5000	0	0	0	21.72	20	23.3

535	0	0.034	0	5000	0	0	0	21.11	20	23.3
536	0	0.034	0	5000	0	0	0	26.11	20	23.3
537	0	0.034	0	5000	0	0	0	27.78	20	23.3
538	0	0.034	0	5000	0	0	0	30	20	23.3
539	0	0.034	0	5000	0	0	0	31.72	20	23.3
540	0	0.034	0	5000	0	0	0	33.28	20	23.3
541	0	0.034	0	5000	0	0	0	34.39	20	23.3
542	0	0.034	0	5000	0	0	0	36.11	20	23.3
543	0	0.034	0	5000	0	0	0	36.11	20	23.3
544	0	0.034	0	5000	0	0	0	36.72	20	23.3
545	0	0.034	0	5000	0	0	0	37.22	20	23.3
546	0	0.034	0	5000	0	0	0	37.22	20	23.3
547	0	0.034	0	5000	0	0	0	36.11	20	23.3
548	0	0.034	0	5000	0	0	0	33.89	20	23.3
549	0	0.034	0	5000	0	0	0	33.28	20	23.3
550	0	0.034	0	5000	0	0	0	30	20	23.3
551	0	0.034	0	5000	0	0	0	28.28	20	23.3
552	0	0.034	0	5000	0	0	0	24.39	20	23.3
553	0	0.034	0	5000	0	0	0	24.39	20	23.3
554	0	0.034	0	5000	0	0	0	25	20	23.3
555	0	0.034	0	5000	0	0	0	22.22	20	23.3
556	0	0.034	0	5000	0	0	0	21.72	20	23.3
557	0	0.034	0	5000	0	0	0	20	20	23.3
558	0	0.034	0	5000	0	0	0	18.89	20	23.3
559	0	0.034	0	5000	0	0	0	20	20	23.3
560	0	0.034	0	5000	0	0	0	25	20	23.3
561	0	0.034	0	5000	0	0	0	28.89	20	23.3
562	0	0.034	0	5000	0	0	0	31.72	20	23.3
563	0	0.034	0	5000	0	0	0	33.89	20	23.3
564	0	0.034	0	5000	0	0	0	35.61	20	23.3
565	0	0.034	0	5000	0	0	0	37.22	20	23.3
566	0	0.034	0	5000	0	0	0	37.22	20	23.3
567	0	0.034	0	5000	0	0	0	37.22	20	23.3
568	0	0.034	0	5000	0	0	0	38.28	20	23.3

569	0	0.034	0	5000	0	0	0	38.28	20	23.3
570	0	0.034	0	5000	0	0	0	37.78	20	23.3
571	0	0.034	0	5000	0	0	0	36.72	20	23.3
572	0	0.034	0	5000	0	0	0	33.28	20	23.3
573	0	0.034	0	5000	0	0	0	32.22	20	23.3
574	0	0.034	0	5000	0	0	0	30	20	23.3
575	0	0.034	0	5000	0	0	0	27.78	20	23.3
576	0	0.034	0	5000	0	0	0	27.22	20	23.3
577	0	0.034	0	5000	0	0	0	25.61	20	23.3
578	0	0.034	0	5000	0	0	0	27.22	20	23.3
579	0	0.034	0	5000	0	0	0	23.89	20	23.3
580	0	0.034	0	5000	0	0	0	21.72	20	23.3
581	0	0.034	0	5000	0	0	0	22.22	20	23.3
582	0	0.034	0	5000	0	0	0	21.11	20	23.3
583	0	0.034	0	5000	0	0	0	23.28	20	23.3
584	0	0.034	0	5000	0	0	0	26.11	20	23.3
585	0	0.034	0	5000	0	0	0	29.39	20	23.3
586	0	0.034	0	5000	0	0	0	33.89	20	23.3
587	0	0.034	0	5000	0	0	0	35	20	23.3
588	0	0.034	0	5000	0	0	0	36.11	20	23.3
589	0	0.034	0	5000	0	0	0	36.72	20	23.3
590	0	0.034	0	5000	0	0	0	37.78	20	23.3
591	0	0.034	0	5000	0	0	0	35.61	20	23.3
592	0	0.034	0	5000	0	0	0	34.39	20	23.3
593	0	0.034	0	5000	0	0	0	30	20	23.3
594	0	0.034	0	5000	0	0	0	32.22	20	23.3
595	0	0.034	0	5000	0	0	0	31.72	20	23.3
596	0	0.034	0	5000	0	0	0	30	20	23.3
597	0	0.034	0	5000	0	0	0	28.89	20	23.3
598	0	0.034	0	5000	0	0	0	28.89	20	23.3
599	0	0.034	0	5000	0	0	0	25.61	20	23.3
600	0	0.034	0	5000	0	0	0	26.11	20	23.3
601	0	0.034	0	5000	0	0	0	26.11	20	23.3
602	0	0.034	0	5000	0	0	0	23.28	20	23.3

603	0	0.034	0	5000	0	0	0	23.89	20	23.3
604	0	0.034	0	5000	0	0	0	21.72	20	23.3
605	0	0.034	0	5000	0	0	0	21.72	20	23.3
606	0	0.034	0	5000	0	0	0	21.11	20	23.3
607	0	0.034	0	5000	0	0	0	22.22	20	23.3
608	0	0.034	0	5000	0	0	0	23.89	20	23.3
609	0	0.034	0	5000	0	0	0	28.28	20	23.3
610	0	0.034	0	5000	0	0	0	30.61	20	23.3
611	0	0.034	0	5000	0	0	0	31.11	20	23.3
612	0	0.034	0	5000	0	0	0	32.78	20	23.3
613	0	0.034	0	5000	0	0	0	32.78	20	23.3
614	0	0.034	0	5000	0	0	0	31.11	20	23.3
615	0	0.034	0	5000	0	0	0	31.11	20	23.3
616	0	0.034	0	5000	0	0	0	28.89	20	23.3
617	0	0.034	0	5000	0	0	0	29.39	20	23.3
618	0	0.034	0	5000	0	0	0	28.89	20	23.3
619	0	0.034	0	5000	0	0	0	28.89	20	23.3
620	0	0.034	0	5000	0	0	0	27.78	20	23.3
621	0	0.034	0	5000	0	0	0	25.61	20	23.3
622	0	0.034	0	5000	0	0	0	25.61	20	23.3
623	0	0.034	0	5000	0	0	0	25.61	20	23.3
624	0	0.034	0	5000	0	0	0	25	20	23.3
625	0	0.034	0	5000	0	0	0	24.39	20	23.3
626	0	0.034	0	5000	0	0	0	22.78	20	23.3
627	0	0.034	0	5000	0	0	0	23.28	20	23.3
628	0	0.034	0	5000	0	0	0	23.28	20	23.3
629	0	0.034	0	5000	0	0	0	23.89	20	23.3
630	0	0.034	0	5000	0	0	0	22.78	20	23.3
631	0	0.034	0	5000	0	0	0	21.72	20	23.3
632	0	0.034	0	5000	0	0	0	23.28	20	23.3
633	0	0.034	0	5000	0	0	0	23.89	20	23.3
634	0	0.034	0	5000	0	0	0	25.61	20	23.3
635	0	0.034	0	5000	0	0	0	27.78	20	23.3
636	0	0.034	0	5000	0	0	0	28.28	20	23.3

637	0	0.034	0	5000	0	0	0	30.61	20	23.3
638	0	0.034	0	5000	0	0	0	31.11	20	23.3
639	0	0.034	0	5000	0	0	0	31.72	20	23.3
640	0	0.034	0	5000	0	0	0	32.22	20	23.3
641	0	0.034	0	5000	0	0	0	31.72	20	23.3
642	0	0.034	0	5000	0	0	0	31.72	20	23.3
643	0	0.034	0	5000	0	0	0	31.11	20	23.3
644	0	0.034	0	5000	0	0	0	29.39	20	23.3
645	0	0.034	0	5000	0	0	0	28.28	20	23.3
646	0	0.034	0	5000	0	0	0	27.22	20	23.3
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649	0	0.034	0	5000	0	0	0	25.61	20	23.3
650	0	0.034	0	5000	0	0	0	22.22	20	23.3
651	0	0.034	0	5000	0	0	0	23.28	20	23.3
652	0	0.034	0	5000	0	0	0	21.72	20	23.3
653	0	0.034	0	5000	0	0	0	21.11	20	23.3
654	0	0.034	0	5000	0	0	0	21.72	20	23.3
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659	0	0.034	0	5000	0	0	0	31.11	20	23.3
660	0	0.034	0	5000	0	0	0	32.22	20	23.3
661	0	0.034	0	5000	0	0	0	32.78	20	23.3
662	0	0.034	0	5000	0	0	0	33.89	20	23.3
663	0	0.034	0	5000	0	0	0	35	20	23.3
664	0	0.034	0	5000	0	0	0	36.11	20	23.3
665	0	0.034	0	5000	0	0	0	35.61	20	23.3
666	0	0.034	0	5000	0	0	0	35	20	23.3
667	0	0.034	0	5000	0	0	0	34.39	20	23.3
668	0	0.034	0	5000	0	0	0	33.28	20	23.3
669	0	0.034	0	5000	0	0	0	32.22	20	23.3
670	0	0.034	0	5000	0	0	0	31.11	20	23.3

671	0	0.034	0	5000	0	0	0	27.78	20	23.3
672	0	0.034	0	5000	0	0	0	28.89	20	23.3
673	0	0.034	0	5000	0	0	0	29.39	20	23.3
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679	0	0.034	0	5000	0	0	0	22.78	20	23.3
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683	0	0.034	0	5000	0	0	0	33.28	20	23.3
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701	0	0.034	0	5000	0	0	0	24.39	20	23.3
702	0	0.034	0	5000	0	0	0	23.89	20	23.3
703	0	0.034	0	5000	0	0	0	25	20	23.3
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705	0	0.034	0	5000	0	0	0	30.61	20	23.3
706	0	0.034	0	5000	0	0	0	32.78	20	23.3
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714	0	0.034	0	5000	0	0	0	32.22	20	23.3
715	0	0.034	0	5000	0	0	0	31.72	20	23.3
716	0	0.034	0	5000	0	0	0	30	20	23.3
717	0	0.034	0	5000	0	0	0	28.89	20	23.3
718	0	0.034	0	5000	0	0	0	28.28	20	23.3
719	0	0.034	0	5000	0	0	0	27.78	20	23.3
720	0	0.034	0	5000	0	0	0	27.22	20	23.3

end*** END OF INPUT FILE 'ATMOSPH.IN' *****

Qp2

Pcp_File_Version=4

*** BLOCK I: ATMOSPHERIC INFORMATION *****

MaxAL (MaxAL = number of atmospheric data-records)

720

DailyVar SinusVar IDummy IDummy IDummy IDummy IDummy IDummy IDummy IDummy IDummy

f f f f f t f f f f

hCritS (max. allowed pressure head at the soil surface)

0

tAtm	Prec	rSoil	rRoot	hCritA	rB	hB	ht	tTop	tBot	Ampl	RootDepth
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3	0	0.034	0	5000	0	0	26.72	20	23.3		
4	0	0.034	0	5000	0	0	25.61	20	23.3		
5	0	0.034	0	5000	0	0	24.39	20	23.3		
6	0	0.034	0	5000	0	0	23.89	20	23.3		
7	0	0.034	0	5000	0	0	23.89	20	23.3		
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9	0	0.034	0	5000	0	0	25	20	23.3		
10	0	0.034	0	5000	0	0	23.89	20	23.3		
11	0	0.034	0	5000	0	0	21.72	20	23.3		
12	0	0.034	0	5000	0	0	21.11	20	23.3		
13	0	0.034	0	5000	0	0	21.72	20	23.3		
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17	0	0.034	0	5000	0	0	24.39	20	23.3		
18	0	0.034	0	5000	0	0	22.78	20	23.3		
19	0	0.034	0	5000	0	0	22.78	20	23.3		
20	0	0.034	0	5000	0	0	22.22	20	23.3		
21	0	0.034	0	5000	0	0	22.78	20	23.3		
22	0	0.034	0	5000	0	0	22.22	20	23.3		
23	0	0.034	0	5000	0	0	22.78	20	23.3		
24	0	0.034	0	5000	0	0	22.22	20	23.3		

255

25	0	0.034	0	5000	0	0	0	21.72	20	23.3
26	0	0.034	0	5000	0	0	0	22.22	20	23.3
27	0	0.034	0	5000	0	0	0	21.72	20	23.3
28	0	0.034	0	5000	0	0	0	21.72	20	23.3
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34	0	0.034	0	5000	0	0	0	26.11	20	23.3
35	0	0.034	0	5000	0	0	0	27.78	20	23.3
36	0	0.034	0	5000	0	0	0	29.39	20	23.3
37	0	0.034	0	5000	0	0	0	30.61	20	23.3
38	0	0.034	0	5000	0	0	0	31.11	20	23.3
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46	0	0.034	0	5000	0	0	0	23.89	20	23.3
47	0	0.034	0	5000	0	0	0	24.39	20	23.3
48	0	0.034	0	5000	0	0	0	23.28	20	23.3
49	0	0.034	0	5000	0	0	0	22.78	20	23.3
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54	0	0.034	0	5000	0	0	0	20.61	20	23.3
55	0	0.034	0	5000	0	0	0	21.72	20	23.3
56	0	0.034	0	5000	0	0	0	24.39	20	23.3
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59	0	0.034	0	5000	0	0	0	30.61	20	23.3
60	0	0.034	0	5000	0	0	0	32.22	20	23.3
61	0	0.034	0	5000	0	0	0	33.28	20	23.3
62	0	0.034	0	5000	0	0	0	33.89	20	23.3
63	0	0.034	0	5000	0	0	0	35.61	20	23.3
64	0	0.034	0	5000	0	0	0	36.11	20	23.3
65	0	0.034	0	5000	0	0	0	36.72	20	23.3
66	0	0.034	0	5000	0	0	0	36.11	20	23.3
67	0	0.034	0	5000	0	0	0	33.28	20	23.3
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72	0	0.034	0	5000	0	0	0	26.11	20	23.3
73	0	0.034	0	5000	0	0	0	26.11	20	23.3
74	0	0.034	0	5000	0	0	0	25.61	20	23.3
75	0	0.034	0	5000	0	0	0	25	20	23.3
76	0	0.034	0	5000	0	0	0	23.28	20	23.3
77	0	0.034	0	5000	0	0	0	22.22	20	23.3
78	0	0.034	0	5000	0	0	0	20.61	20	23.3
79	0	0.034	0	5000	0	0	0	22.78	20	23.3
80	0	0.034	0	5000	0	0	0	26.72	20	23.3
81	0	0.034	0	5000	0	0	0	28.89	20	23.3
82	0	0.034	0	5000	0	0	0	32.22	20	23.3
83	0	0.034	0	5000	0	0	0	35	20	23.3
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85	0	0.034	0	5000	0	0	0	37.22	20	23.3
86	0	0.034	0	5000	0	0	0	37.22	20	23.3
87	0	0.034	0	5000	0	0	0	36.72	20	23.3
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91	0	0.034	0	5000	0	0	0	36.72	20	23.3
92	0	0.034	0	5000	0	0	0	35.61	20	23.3

93	0	0.034	0	5000	0	0	0	33.89	20	23.3
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97	0	0.034	0	5000	0	0	0	31.11	20	23.3
98	0	0.034	0	5000	0	0	0	28.89	20	23.3
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121	0	0.034	0	5000	0	0	0	27.78	20	23.3
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123	0	0.034	0	5000	0	0	0	23.28	20	23.3
124	0	0.034	0	5000	0	0	0	23.89	20	23.3
125	0	0.034	0	5000	0	0	0	23.28	20	23.3
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139	0	0.034	0	5000	0	0	0	32.78	20	23.3
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154	0	0.034	0	5000	0	0	0	26.11	20	23.3
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163	0	0.034	0	5000	0	0	0	32.78	20	23.3
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179	0	0.034	0	5000	0	0	0	31.72	20	23.3
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181	0	0.034	0	5000	0	0	0	33.28	20	23.3
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185	0	0.034	0	5000	0	0	0	35.61	20	23.3
186	0	0.034	0	5000	0	0	0	35	20	23.3
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188	0	0.034	0	5000	0	0	0	31.72	20	23.3
189	0	0.034	0	5000	0	0	0	30.61	20	23.3
190	0	0.034	0	5000	0	0	0	28.89	20	23.3
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193	0	0.034	0	5000	0	0	0	22.22	20	23.3
194	0	0.034	0	5000	0	0	0	19.39	20	23.3

195	0	0.034	0	5000	0	0	0	20.61	20	23.3
196	0	0.034	0	5000	0	0	0	20	20	23.3
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199	0	0.034	0	5000	0	0	0	19.39	20	23.3
200	0	0.034	0	5000	0	0	0	23.89	20	23.3
201	0	0.034	0	5000	0	0	0	26.72	20	23.3
202	0	0.034	0	5000	0	0	0	29.39	20	23.3
203	0	0.034	0	5000	0	0	0	32.22	20	23.3
204	0	0.034	0	5000	0	0	0	32.78	20	23.3
205	0	0.034	0	5000	0	0	0	33.28	20	23.3
206	0	0.034	0	5000	0	0	0	35	20	23.3
207	0	0.034	0	5000	0	0	0	36.72	20	23.3
208	0	0.034	0	5000	0	0	0	36.11	20	23.3
209	0	0.034	0	5000	0	0	0	36.11	20	23.3
210	0	0.034	0	5000	0	0	0	35.61	20	23.3
211	0	0.034	0	5000	0	0	0	33.89	20	23.3
212	0	0.034	0	5000	0	0	0	32.22	20	23.3
213	0	0.034	0	5000	0	0	0	30.61	20	23.3
214	0	0.034	0	5000	0	0	0	28.28	20	23.3
215	0	0.034	0	5000	0	0	0	24.39	20	23.3
216	0	0.034	0	5000	0	0	0	26.72	20	23.3
217	0	0.034	0	5000	0	0	0	24.39	20	23.3
218	0	0.034	0	5000	0	0	0	23.89	20	23.3
219	0	0.034	0	5000	0	0	0	21.11	20	23.3
220	0	0.034	0	5000	0	0	0	21.72	20	23.3
221	0	0.034	0	5000	0	0	0	20	20	23.3
222	0	0.034	0	5000	0	0	0	17.78	20	23.3
223	0	0.034	0	5000	0	0	0	19.39	20	23.3
224	0	0.034	0	5000	0	0	0	22.78	20	23.3
225	0	0.034	0	5000	0	0	0	26.11	20	23.3
226	0	0.034	0	5000	0	0	0	29.39	20	23.3
227	0	0.034	0	5000	0	0	0	32.22	20	23.3
228	0	0.034	0	5000	0	0	0	32.78	20	23.3

229	0	0.034	0	5000	0	0	0	33.89	20	23.3
230	0	0.034	0	5000	0	0	0	35	20	23.3
231	0	0.034	0	5000	0	0	0	35.61	20	23.3
232	0	0.034	0	5000	0	0	0	36.72	20	23.3
233	0	0.034	0	5000	0	0	0	37.22	20	23.3
234	0	0.034	0	5000	0	0	0	36.11	20	23.3
235	0	0.034	0	5000	0	0	0	35	20	23.3
236	0	0.034	0	5000	0	0	0	32.78	20	23.3
237	0	0.034	0	5000	0	0	0	30.61	20	23.3
238	0	0.034	0	5000	0	0	0	30	20	23.3
239	0	0.034	0	5000	0	0	0	27.22	20	23.3
240	0	0.034	0	5000	0	0	0	25	20	23.3
241	0	0.034	0	5000	0	0	0	25	20	23.3
242	0	0.034	0	5000	0	0	0	23.89	20	23.3
243	0	0.034	0	5000	0	0	0	22.22	20	23.3
244	0	0.034	0	5000	0	0	0	20	20	23.3
245	0	0.034	0	5000	0	0	0	20	20	23.3
246	0	0.034	0	5000	0	0	0	18.28	20	23.3
247	0	0.034	0	5000	0	0	0	20.61	20	23.3
248	0	0.034	0	5000	0	0	0	23.89	20	23.3
249	0	0.034	0	5000	0	0	0	27.22	20	23.3
250	0	0.034	0	5000	0	0	0	32.78	20	23.3
251	0	0.034	0	5000	0	0	0	33.28	20	23.3
252	0	0.034	0	5000	0	0	0	35.61	20	23.3
253	0	0.034	0	5000	0	0	0	35.61	20	23.3
254	0	0.034	0	5000	0	0	0	36.11	20	23.3
255	0	0.034	0	5000	0	0	0	36.72	20	23.3
256	0	0.034	0	5000	0	0	0	37.78	20	23.3
257	0	0.034	0	5000	0	0	0	37.78	20	23.3
258	0	0.034	0	5000	0	0	0	36.72	20	23.3
259	0	0.034	0	5000	0	0	0	35.61	20	23.3
260	0	0.034	0	5000	0	0	0	33.89	20	23.3
261	0	0.034	0	5000	0	0	0	32.78	20	23.3
262	0	0.034	0	5000	0	0	0	30	20	23.3

263	0	0.034	0	5000	0	0	0	29.39	20	23.3
264	0	0.034	0	5000	0	0	0	28.28	20	23.3
265	0	0.034	0	5000	0	0	0	27.78	20	23.3
266	0	0.034	0	5000	0	0	0	26.72	20	23.3
267	0	0.034	0	5000	0	0	0	24.39	20	23.3
268	0	0.034	0	5000	0	0	0	23.89	20	23.3
269	0	0.034	0	5000	0	0	0	22.22	20	23.3
270	0	0.034	0	5000	0	0	0	22.78	20	23.3
271	0	0.034	0	5000	0	0	0	24.39	20	23.3
272	0	0.034	0	5000	0	0	0	27.22	20	23.3
273	0	0.034	0	5000	0	0	0	30	20	23.3
274	0	0.034	0	5000	0	0	0	32.78	20	23.3
275	0	0.034	0	5000	0	0	0	33.89	20	23.3
276	0	0.034	0	5000	0	0	0	34.39	20	23.3
277	0	0.034	0	5000	0	0	0	35.61	20	23.3
278	0	0.034	0	5000	0	0	0	36.72	20	23.3
279	0	0.034	0	5000	0	0	0	37.22	20	23.3
280	0	0.034	0	5000	0	0	0	37.78	20	23.3
281	0	0.034	0	5000	0	0	0	37.78	20	23.3
282	0	0.034	0	5000	0	0	0	37.78	20	23.3
283	0	0.034	0	5000	0	0	0	36.72	20	23.3
284	0	0.034	0	5000	0	0	0	35	20	23.3
285	0	0.034	0	5000	0	0	0	33.89	20	23.3
286	0	0.034	0	5000	0	0	0	32.78	20	23.3
287	0	0.034	0	5000	0	0	0	31.11	20	23.3
288	0	0.034	0	5000	0	0	0	31.72	20	23.3
289	0	0.034	0	5000	0	0	0	27.78	20	23.3
290	0	0.034	0	5000	0	0	0	25	20	23.3
291	0	0.034	0	5000	0	0	0	25.61	20	23.3
292	0	0.034	0	5000	0	0	0	25.61	20	23.3
293	0	0.034	0	5000	0	0	0	23.89	20	23.3
294	0	0.034	0	5000	0	0	0	23.89	20	23.3
295	0	0.034	0	5000	0	0	0	23.89	20	23.3
296	0	0.034	0	5000	0	0	0	27.22	20	23.3

297	0	0.034	0	5000	0	0	0	30.61	20	23.3
298	0	0.034	0	5000	0	0	0	33.28	20	23.3
299	0	0.034	0	5000	0	0	0	35	20	23.3
300	0	0.034	0	5000	0	0	0	37.22	20	23.3
301	0	0.034	0	5000	0	0	0	38.28	20	23.3
302	0	0.034	0	5000	0	0	0	38.28	20	23.3
303	0	0.034	0	5000	0	0	0	38.28	20	23.3
304	0	0.034	0	5000	0	0	0	38.89	20	23.3
305	0	0.034	0	5000	0	0	0	38.89	20	23.3
306	0	0.034	0	5000	0	0	0	38.28	20	23.3
307	0	0.034	0	5000	0	0	0	37.22	20	23.3
308	0	0.034	0	5000	0	0	0	35	20	23.3
309	0	0.034	0	5000	0	0	0	34.39	20	23.3
310	0	0.034	0	5000	0	0	0	30.61	20	23.3
311	0	0.034	0	5000	0	0	0	30.61	20	23.3
312	0	0.034	0	5000	0	0	0	28.89	20	23.3
313	0	0.034	0	5000	0	0	0	26.72	20	23.3
314	0	0.034	0	5000	0	0	0	24.39	20	23.3
315	0	0.034	0	5000	0	0	0	25.61	20	23.3
316	0	0.034	0	5000	0	0	0	23.28	20	23.3
317	0	0.034	0	5000	0	0	0	21.72	20	23.3
318	0	0.034	0	5000	0	0	0	22.22	20	23.3
319	0	0.034	0	5000	0	0	0	23.28	20	23.3
320	0	0.034	0	5000	0	0	0	25.61	20	23.3
321	0	0.034	0	5000	0	0	0	32.22	20	23.3
322	0	0.034	0	5000	0	0	0	33.89	20	23.3
323	0	0.034	0	5000	0	0	0	36.11	20	23.3
324	0	0.034	0	5000	0	0	0	36.11	20	23.3
325	0	0.034	0	5000	0	0	0	36.72	20	23.3
326	0	0.034	0	5000	0	0	0	37.22	20	23.3
327	0	0.034	0	5000	0	0	0	37.78	20	23.3
328	0	0.034	0	5000	0	0	0	36.72	20	23.3
329	0	0.034	0	5000	0	0	0	37.22	20	23.3
330	0	0.034	0	5000	0	0	0	36.72	20	23.3

331	0	0.034	0	5000	0	0	0	35.61	20	23.3
332	0	0.034	0	5000	0	0	0	33.89	20	23.3
333	0	0.034	0	5000	0	0	0	32.22	20	23.3
334	0	0.034	0	5000	0	0	0	30.61	20	23.3
335	0	0.034	0	5000	0	0	0	28.89	20	23.3
336	0	0.034	0	5000	0	0	0	26.72	20	23.3
337	0	0.034	0	5000	0	0	0	25.61	20	23.3
338	0	0.034	0	5000	0	0	0	25	20	23.3
339	0	0.034	0	5000	0	0	0	24.39	20	23.3
340	0	0.034	0	5000	0	0	0	23.28	20	23.3
341	0	0.034	0	5000	0	0	0	23.28	20	23.3
342	0	0.034	0	5000	0	0	0	22.78	20	23.3
343	0	0.034	0	5000	0	0	0	22.22	20	23.3
344	0	0.034	0	5000	0	0	0	26.72	20	23.3
345	0	0.034	0	5000	0	0	0	28.89	20	23.3
346	0	0.034	0	5000	0	0	0	32.78	20	23.3
347	0	0.034	0	5000	0	0	0	34.39	20	23.3
348	0	0.034	0	5000	0	0	0	36.72	20	23.3
349	0	0.034	0	5000	0	0	0	36.72	20	23.3
350	0	0.034	0	5000	0	0	0	37.78	20	23.3
351	0	0.034	0	5000	0	0	0	36.72	20	23.3
352	0	0.034	0	5000	0	0	0	37.78	20	23.3
353	0	0.034	0	5000	0	0	0	37.78	20	23.3
354	0	0.034	0	5000	0	0	0	37.78	20	23.3
355	0	0.034	0	5000	0	0	0	36.72	20	23.3
356	0	0.034	0	5000	0	0	0	35	20	23.3
357	0	0.034	0	5000	0	0	0	33.28	20	23.3
358	0	0.034	0	5000	0	0	0	31.11	20	23.3
359	0	0.034	0	5000	0	0	0	30.61	20	23.3
360	0	0.034	0	5000	0	0	0	27.78	20	23.3
361	0	0.034	0	5000	0	0	0	27.78	20	23.3
362	0	0.034	0	5000	0	0	0	25.61	20	23.3
363	0	0.034	0	5000	0	0	0	23.28	20	23.3
364	0	0.034	0	5000	0	0	0	23.89	20	23.3

365	0	0.034	0	5000	0	0	0	24.39	20	23.3
366	0	0.034	0	5000	0	0	0	23.89	20	23.3
367	0	0.034	0	5000	0	0	0	23.89	20	23.3
368	0	0.034	0	5000	0	0	0	27.78	20	23.3
369	0	0.034	0	5000	0	0	0	31.11	20	23.3
370	0	0.034	0	5000	0	0	0	32.78	20	23.3
371	0	0.034	0	5000	0	0	0	36.11	20	23.3
372	0	0.034	0	5000	0	0	0	37.22	20	23.3
373	0	0.034	0	5000	0	0	0	36.11	20	23.3
374	0	0.034	0	5000	0	0	0	38.28	20	23.3
375	0	0.034	0	5000	0	0	0	37.78	20	23.3
376	0	0.034	0	5000	0	0	0	38.89	20	23.3
377	0	0.034	0	5000	0	0	0	38.28	20	23.3
378	0	0.034	0	5000	0	0	0	36.11	20	23.3
379	0	0.034	0	5000	0	0	0	36.72	20	23.3
380	0	0.034	0	5000	0	0	0	35	20	23.3
381	0	0.034	0	5000	0	0	0	33.89	20	23.3
382	0	0.034	0	5000	0	0	0	31.72	20	23.3
383	0	0.034	0	5000	0	0	0	30	20	23.3
384	0	0.034	0	5000	0	0	0	28.89	20	23.3
385	0	0.034	0	5000	0	0	0	29.39	20	23.3
386	0	0.034	0	5000	0	0	0	27.22	20	23.3
387	0	0.034	0	5000	0	0	0	26.11	20	23.3
388	0	0.034	0	5000	0	0	0	25	20	23.3
389	0	0.034	0	5000	0	0	0	25	20	23.3
390	0	0.034	0	5000	0	0	0	25	20	23.3
391	0	0.034	0	5000	0	0	0	24.39	20	23.3
392	0	0.034	0	5000	0	0	0	27.78	20	23.3
393	0	0.034	0	5000	0	0	0	32.78	20	23.3
394	0	0.034	0	5000	0	0	0	33.89	20	23.3
395	0	0.034	0	5000	0	0	0	35.61	20	23.3
396	0	0.034	0	5000	0	0	0	36.11	20	23.3
397	0	0.034	0	5000	0	0	0	35.61	20	23.3
398	0	0.034	0	5000	0	0	0	37.78	20	23.3

399	0	0.034	0	5000	0	0	0	38.28	20	23.3
400	0	0.034	0	5000	0	0	0	37.22	20	23.3
401	0	0.034	0	5000	0	0	0	36.72	20	23.3
402	0	0.034	0	5000	0	0	0	36.11	20	23.3
403	0	0.034	0	5000	0	0	0	32.78	20	23.3
404	0	0.034	0	5000	0	0	0	30	20	23.3
405	0	0.034	0	5000	0	0	0	28.28	20	23.3
406	0	0.034	0	5000	0	0	0	28.28	20	23.3
407	0	0.034	0	5000	0	0	0	29.39	20	23.3
408	0	0.034	0	5000	0	0	0	28.89	20	23.3
409	0	0.034	0	5000	0	0	0	28.89	20	23.3
410	0	0.034	0	5000	0	0	0	27.78	20	23.3
411	0	0.034	0	5000	0	0	0	28.28	20	23.3
412	0	0.034	0	5000	0	0	0	26.72	20	23.3
413	0	0.034	0	5000	0	0	0	26.72	20	23.3
414	0	0.034	0	5000	0	0	0	26.11	20	23.3
415	0	0.034	0	5000	0	0	0	26.11	20	23.3
416	0	0.034	0	5000	0	0	0	28.28	20	23.3
417	0	0.034	0	5000	0	0	0	31.11	20	23.3
418	0	0.034	0	5000	0	0	0	32.78	20	23.3
419	0	0.034	0	5000	0	0	0	33.89	20	23.3
420	0	0.034	0	5000	0	0	0	35.61	20	23.3
421	0	0.034	0	5000	0	0	0	35.61	20	23.3
422	0	0.034	0	5000	0	0	0	36.72	20	23.3
423	0	0.034	0	5000	0	0	0	37.78	20	23.3
424	0	0.034	0	5000	0	0	0	37.78	20	23.3
425	0	0.034	0	5000	0	0	0	37.78	20	23.3
426	0	0.034	0	5000	0	0	0	36.72	20	23.3
427	0	0.034	0	5000	0	0	0	35	20	23.3
428	0	0.034	0	5000	0	0	0	33.89	20	23.3
429	0	0.034	0	5000	0	0	0	33.28	20	23.3
430	0	0.034	0	5000	0	0	0	32.78	20	23.3
431	0	0.034	0	5000	0	0	0	30	20	23.3
432	0	0.034	0	5000	0	0	0	31.11	20	23.3

433	0	0.034	0	5000	0	0	0	30	20	23.3
434	0	0.034	0	5000	0	0	0	28.28	20	23.3
435	0	0.034	0	5000	0	0	0	30	20	23.3
436	0	0.034	0	5000	0	0	0	27.78	20	23.3
437	0	0.034	0	5000	0	0	0	27.78	20	23.3
438	0	0.034	0	5000	0	0	0	29.39	20	23.3
439	0	0.034	0	5000	0	0	0	26.72	20	23.3
440	0	0.034	0	5000	0	0	0	29.39	20	23.3
441	0	0.034	0	5000	0	0	0	31.11	20	23.3
442	0	0.034	0	5000	0	0	0	33.89	20	23.3
443	0	0.034	0	5000	0	0	0	35	20	23.3
444	0	0.034	0	5000	0	0	0	36.11	20	23.3
445	0	0.034	0	5000	0	0	0	36.72	20	23.3
446	0	0.034	0	5000	0	0	0	37.78	20	23.3
447	0	0.034	0	5000	0	0	0	37.22	20	23.3
448	0	0.034	0	5000	0	0	0	37.22	20	23.3
449	0	0.034	0	5000	0	0	0	37.22	20	23.3
450	0	0.034	0	5000	0	0	0	36.11	20	23.3
451	0	0.034	0	5000	0	0	0	35	20	23.3
452	0	0.034	0	5000	0	0	0	33.28	20	23.3
453	0	0.034	0	5000	0	0	0	32.78	20	23.3
454	0	0.034	0	5000	0	0	0	29.39	20	23.3
455	0	0.034	0	5000	0	0	0	28.89	20	23.3
456	0	0.034	0	5000	0	0	0	27.22	20	23.3
457	0	0.034	0	5000	0	0	0	23.89	20	23.3
458	0	0.034	0	5000	0	0	0	25	20	23.3
459	0	0.034	0	5000	0	0	0	21.72	20	23.3
460	0	0.034	0	5000	0	0	0	21.11	20	23.3
461	0	0.034	0	5000	0	0	0	18.89	20	23.3
462	0	0.034	0	5000	0	0	0	19.39	20	23.3
463	0	0.034	0	5000	0	0	0	20	20	23.3
464	0	0.034	0	5000	0	0	0	23.89	20	23.3
465	0	0.034	0	5000	0	0	0	28.28	20	23.3
466	0	0.034	0	5000	0	0	0	29.39	20	23.3

467	0	0.034	0	5000	0	0	0	31.11	20	23.3
468	0	0.034	0	5000	0	0	0	32.78	20	23.3
469	0	0.034	0	5000	0	0	0	33.28	20	23.3
470	0	0.034	0	5000	0	0	0	35	20	23.3
471	0	0.034	0	5000	0	0	0	36.11	20	23.3
472	0	0.034	0	5000	0	0	0	36.72	20	23.3
473	0	0.034	0	5000	0	0	0	36.72	20	23.3
474	0	0.034	0	5000	0	0	0	36.72	20	23.3
475	0	0.034	0	5000	0	0	0	35.61	20	23.3
476	0	0.034	0	5000	0	0	0	31.72	20	23.3
477	0	0.034	0	5000	0	0	0	30.61	20	23.3
478	0	0.034	0	5000	0	0	0	26.11	20	23.3
479	0	0.034	0	5000	0	0	0	25.61	20	23.3
480	0	0.034	0	5000	0	0	0	21.11	20	23.3
481	0	0.034	0	5000	0	0	0	21.72	20	23.3
482	0	0.034	0	5000	0	0	0	20	20	23.3
483	0	0.034	0	5000	0	0	0	17.22	20	23.3
484	0	0.034	0	5000	0	0	0	17.78	20	23.3
485	0	0.034	0	5000	0	0	0	17.22	20	23.3
486	0	0.034	0	5000	0	0	0	17.22	20	23.3
487	0	0.034	0	5000	0	0	0	18.28	20	23.3
488	0	0.034	0	5000	0	0	0	22.78	20	23.3
489	0	0.034	0	5000	0	0	0	26.11	20	23.3
490	0	0.034	0	5000	0	0	0	30.61	20	23.3
491	0	0.034	0	5000	0	0	0	33.28	20	23.3
492	0	0.034	0	5000	0	0	0	34.39	20	23.3
493	0	0.034	0	5000	0	0	0	35.61	20	23.3
494	0	0.034	0	5000	0	0	0	37.78	20	23.3
495	0	0.034	0	5000	0	0	0	38.28	20	23.3
496	0	0.034	0	5000	0	0	0	38.28	20	23.3
497	0	0.034	0	5000	0	0	0	38.89	20	23.3
498	0	0.034	0	5000	0	0	0	37.78	20	23.3
499	0	0.034	0	5000	0	0	0	36.72	20	23.3
500	0	0.034	0	5000	0	0	0	34.39	20	23.3

501	0	0.034	0	5000	0	0	0	31.11	20	23.3
502	0	0.034	0	5000	0	0	0	29.39	20	23.3
503	0	0.034	0	5000	0	0	0	26.72	20	23.3
504	0	0.034	0	5000	0	0	0	25	20	23.3
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506	0	0.034	0	5000	0	0	0	22.22	20	23.3
507	0	0.034	0	5000	0	0	0	21.72	20	23.3
508	0	0.034	0	5000	0	0	0	19.39	20	23.3
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511	0	0.034	0	5000	0	0	0	18.89	20	23.3
512	0	0.034	0	5000	0	0	0	25	20	23.3
513	0	0.034	0	5000	0	0	0	27.22	20	23.3
514	0	0.034	0	5000	0	0	0	31.11	20	23.3
515	0	0.034	0	5000	0	0	0	33.89	20	23.3
516	0	0.034	0	5000	0	0	0	35	20	23.3
517	0	0.034	0	5000	0	0	0	36.72	20	23.3
518	0	0.034	0	5000	0	0	0	38.28	20	23.3
519	0	0.034	0	5000	0	0	0	37.78	20	23.3
520	0	0.034	0	5000	0	0	0	38.28	20	23.3
521	0	0.034	0	5000	0	0	0	38.89	20	23.3
522	0	0.034	0	5000	0	0	0	37.78	20	23.3
523	0	0.034	0	5000	0	0	0	36.72	20	23.3
524	0	0.034	0	5000	0	0	0	35	20	23.3
525	0	0.034	0	5000	0	0	0	31.11	20	23.3
526	0	0.034	0	5000	0	0	0	30	20	23.3
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532	0	0.034	0	5000	0	0	0	20.61	20	23.3
533	0	0.034	0	5000	0	0	0	21.11	20	23.3
534	0	0.034	0	5000	0	0	0	21.72	20	23.3

535	0	0.034	0	5000	0	0	0	21.11	20	23.3
536	0	0.034	0	5000	0	0	0	26.11	20	23.3
537	0	0.034	0	5000	0	0	0	27.78	20	23.3
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542	0	0.034	0	5000	0	0	0	36.11	20	23.3
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544	0	0.034	0	5000	0	0	0	36.72	20	23.3
545	0	0.034	0	5000	0	0	0	37.22	20	23.3
546	0	0.034	0	5000	0	0	0	37.22	20	23.3
547	0	0.034	0	5000	0	0	0	36.11	20	23.3
548	0	0.034	0	5000	0	0	0	33.89	20	23.3
549	0	0.034	0	5000	0	0	0	33.28	20	23.3
550	0	0.034	0	5000	0	0	0	30	20	23.3
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552	0	0.034	0	5000	0	0	0	24.39	20	23.3
553	0	0.034	0	5000	0	0	0	24.39	20	23.3
554	0	0.034	0	5000	0	0	0	25	20	23.3
555	0	0.034	0	5000	0	0	0	22.22	20	23.3
556	0	0.034	0	5000	0	0	0	21.72	20	23.3
557	0	0.034	0	5000	0	0	0	20	20	23.3
558	0	0.034	0	5000	0	0	0	18.89	20	23.3
559	0	0.034	0	5000	0	0	0	20	20	23.3
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561	0	0.034	0	5000	0	0	0	28.89	20	23.3
562	0	0.034	0	5000	0	0	0	31.72	20	23.3
563	0	0.034	0	5000	0	0	0	33.89	20	23.3
564	0	0.034	0	5000	0	0	0	35.61	20	23.3
565	0	0.034	0	5000	0	0	0	37.22	20	23.3
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567	0	0.034	0	5000	0	0	0	37.22	20	23.3
568	0	0.034	0	5000	0	0	0	38.28	20	23.3

569	0	0.034	0	5000	0	0	0	38.28	20	23.3
570	0	0.034	0	5000	0	0	0	37.78	20	23.3
571	0	0.034	0	5000	0	0	0	36.72	20	23.3
572	0	0.034	0	5000	0	0	0	33.28	20	23.3
573	0	0.034	0	5000	0	0	0	32.22	20	23.3
574	0	0.034	0	5000	0	0	0	30	20	23.3
575	0	0.034	0	5000	0	0	0	27.78	20	23.3
576	0	0.034	0	5000	0	0	0	27.22	20	23.3
577	0	0.034	0	5000	0	0	0	25.61	20	23.3
578	0	0.034	0	5000	0	0	0	27.22	20	23.3
579	0	0.034	0	5000	0	0	0	23.89	20	23.3
580	0	0.034	0	5000	0	0	0	21.72	20	23.3
581	0	0.034	0	5000	0	0	0	22.22	20	23.3
582	0	0.034	0	5000	0	0	0	21.11	20	23.3
583	0	0.034	0	5000	0	0	0	23.28	20	23.3
584	0	0.034	0	5000	0	0	0	26.11	20	23.3
585	0	0.034	0	5000	0	0	0	29.39	20	23.3
586	0	0.034	0	5000	0	0	0	33.89	20	23.3
587	0	0.034	0	5000	0	0	0	35	20	23.3
588	0	0.034	0	5000	0	0	0	36.11	20	23.3
589	0	0.034	0	5000	0	0	0	36.72	20	23.3
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594	0	0.034	0	5000	0	0	0	32.22	20	23.3
595	0	0.034	0	5000	0	0	0	31.72	20	23.3
596	0	0.034	0	5000	0	0	0	30	20	23.3
597	0	0.034	0	5000	0	0	0	28.89	20	23.3
598	0	0.034	0	5000	0	0	0	28.89	20	23.3
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600	0	0.034	0	5000	0	0	0	26.11	20	23.3
601	0	0.034	0	5000	0	0	0	26.11	20	23.3
602	0	0.034	0	5000	0	0	0	23.28	20	23.3

603	0	0.034	0	5000	0	0	0	23.89	20	23.3
604	0	0.034	0	5000	0	0	0	21.72	20	23.3
605	0	0.034	0	5000	0	0	0	21.72	20	23.3
606	0	0.034	0	5000	0	0	0	21.11	20	23.3
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621	0	0.034	0	5000	0	0	0	25.61	20	23.3
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623	0	0.034	0	5000	0	0	0	25.61	20	23.3
624	0	0.034	0	5000	0	0	0	25	20	23.3
625	0	0.034	0	5000	0	0	0	24.39	20	23.3
626	0	0.034	0	5000	0	0	0	22.78	20	23.3
627	0	0.034	0	5000	0	0	0	23.28	20	23.3
628	0	0.034	0	5000	0	0	0	23.28	20	23.3
629	0	0.034	0	5000	0	0	0	23.89	20	23.3
630	0	0.034	0	5000	0	0	0	22.78	20	23.3
631	0	0.034	0	5000	0	0	0	21.72	20	23.3
632	0	0.034	0	5000	0	0	0	23.28	20	23.3
633	0	0.034	0	5000	0	0	0	23.89	20	23.3
634	0	0.034	0	5000	0	0	0	25.61	20	23.3
635	0	0.034	0	5000	0	0	0	27.78	20	23.3
636	0	0.034	0	5000	0	0	0	28.28	20	23.3

637	0	0.034	0	5000	0	0	0	30.61	20	23.3
638	0	0.034	0	5000	0	0	0	31.11	20	23.3
639	0	0.034	0	5000	0	0	0	31.72	20	23.3
640	0	0.034	0	5000	0	0	0	32.22	20	23.3
641	0	0.034	0	5000	0	0	0	31.72	20	23.3
642	0	0.034	0	5000	0	0	0	31.72	20	23.3
643	0	0.034	0	5000	0	0	0	31.11	20	23.3
644	0	0.034	0	5000	0	0	0	29.39	20	23.3
645	0	0.034	0	5000	0	0	0	28.28	20	23.3
646	0	0.034	0	5000	0	0	0	27.22	20	23.3
647	0	0.034	0	5000	0	0	0	26.72	20	23.3
648	0	0.034	0	5000	0	0	0	26.11	20	23.3
649	0	0.034	0	5000	0	0	0	25.61	20	23.3
650	0	0.034	0	5000	0	0	0	22.22	20	23.3
651	0	0.034	0	5000	0	0	0	23.28	20	23.3
652	0	0.034	0	5000	0	0	0	21.72	20	23.3
653	0	0.034	0	5000	0	0	0	21.11	20	23.3
654	0	0.034	0	5000	0	0	0	21.72	20	23.3
655	0	0.034	0	5000	0	0	0	21.72	20	23.3
656	0	0.034	0	5000	0	0	0	25	20	23.3
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660	0	0.034	0	5000	0	0	0	32.22	20	23.3
661	0	0.034	0	5000	0	0	0	32.78	20	23.3
662	0	0.034	0	5000	0	0	0	33.89	20	23.3
663	0	0.034	0	5000	0	0	0	35	20	23.3
664	0	0.034	0	5000	0	0	0	36.11	20	23.3
665	0	0.034	0	5000	0	0	0	35.61	20	23.3
666	0	0.034	0	5000	0	0	0	35	20	23.3
667	0	0.034	0	5000	0	0	0	34.39	20	23.3
668	0	0.034	0	5000	0	0	0	33.28	20	23.3
669	0	0.034	0	5000	0	0	0	32.22	20	23.3
670	0	0.034	0	5000	0	0	0	31.11	20	23.3

671	0	0.034	0	5000	0	0	0	27.78	20	23.3
672	0	0.034	0	5000	0	0	0	28.89	20	23.3
673	0	0.034	0	5000	0	0	0	29.39	20	23.3
674	0	0.034	0	5000	0	0	0	27.78	20	23.3
675	0	0.034	0	5000	0	0	0	24.39	20	23.3
676	0	0.034	0	5000	0	0	0	23.89	20	23.3
677	0	0.034	0	5000	0	0	0	22.78	20	23.3
678	0	0.034	0	5000	0	0	0	21.72	20	23.3
679	0	0.034	0	5000	0	0	0	22.78	20	23.3
680	0	0.034	0	5000	0	0	0	26.11	20	23.3
681	0	0.034	0	5000	0	0	0	28.89	20	23.3
682	0	0.034	0	5000	0	0	0	31.11	20	23.3
683	0	0.034	0	5000	0	0	0	33.28	20	23.3
684	0	0.034	0	5000	0	0	0	35	20	23.3
685	0	0.034	0	5000	0	0	0	36.72	20	23.3
686	0	0.034	0	5000	0	0	0	37.22	20	23.3
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688	0	0.034	0	5000	0	0	0	37.78	20	23.3
689	0	0.034	0	5000	0	0	0	37.22	20	23.3
690	0	0.034	0	5000	0	0	0	37.22	20	23.3
691	0	0.034	0	5000	0	0	0	36.11	20	23.3
692	0	0.034	0	5000	0	0	0	34.39	20	23.3
693	0	0.034	0	5000	0	0	0	33.28	20	23.3
694	0	0.034	0	5000	0	0	0	30.61	20	23.3
695	0	0.034	0	5000	0	0	0	31.11	20	23.3
696	0	0.034	0	5000	0	0	0	28.28	20	23.3
697	0	0.034	0	5000	0	0	0	26.11	20	23.3
698	0	0.034	0	5000	0	0	0	27.78	20	23.3
699	0	0.034	0	5000	0	0	0	24.39	20	23.3
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701	0	0.034	0	5000	0	0	0	24.39	20	23.3
702	0	0.034	0	5000	0	0	0	23.89	20	23.3
703	0	0.034	0	5000	0	0	0	25	20	23.3
704	0	0.034	0	5000	0	0	0	27.22	20	23.3

705	0	0.034	0	5000	0	0	0	30.61	20	23.3
706	0	0.034	0	5000	0	0	0	32.78	20	23.3
707	0	0.034	0	5000	0	0	0	33.89	20	23.3
708	0	0.034	0	5000	0	0	0	33.28	20	23.3
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711	0	0.034	0	5000	0	0	0	32.22	20	23.3
712	0	0.034	0	5000	0	0	0	31.72	20	23.3
713	0	0.034	0	5000	0	0	0	31.72	20	23.3
714	0	0.034	0	5000	0	0	0	32.22	20	23.3
715	0	0.034	0	5000	0	0	0	31.72	20	23.3
716	0	0.034	0	5000	0	0	0	30	20	23.3
717	0	0.034	0	5000	0	0	0	28.89	20	23.3
718	0	0.034	0	5000	0	0	0	28.28	20	23.3
719	0	0.034	0	5000	0	0	0	27.78	20	23.3
720	0	0.034	0	5000	0	0	0	27.22	20	23.3

end*** END OF INPUT FILE 'ATMOSPH.IN' *****

Qp3

Pcp_File_Version=4

*** BLOCK I: ATMOSPHERIC INFORMATION *****

MaxAL (MaxAL = number of atmospheric data-records)

720

DailyVar SinusVar IDummy IDummy IDummy IDummy IDummy IDummy IDummy IDummy

f f f f f t f f f f

hCritS (max. allowed pressure head at the soil surface)

0

tAtm	Prec	rSoil	rRoot	hCritA	rB	hB	ht	tTop	tBot	Ampl	RootDepth
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2	0	0.034	0	5000	0	0	26.72	20	23.3		
3	0	0.034	0	5000	0	0	26.72	20	23.3		
4	0	0.034	0	5000	0	0	25.61	20	23.3		
5	0	0.034	0	5000	0	0	24.39	20	23.3		
6	0	0.034	0	5000	0	0	23.89	20	23.3		
7	0	0.034	0	5000	0	0	23.89	20	23.3		
8	0	0.034	0	5000	0	0	23.28	20	23.3		
9	0	0.034	0	5000	0	0	25	20	23.3		
10	0	0.034	0	5000	0	0	23.89	20	23.3		
11	0	0.034	0	5000	0	0	21.72	20	23.3		
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14	0	0.034	0	5000	0	0	22.78	20	23.3		
15	0	0.034	0	5000	0	0	23.89	20	23.3		
16	0	0.034	0	5000	0	0	25.61	20	23.3		
17	0	0.034	0	5000	0	0	24.39	20	23.3		
18	0	0.034	0	5000	0	0	22.78	20	23.3		
19	0	0.034	0	5000	0	0	22.78	20	23.3		
20	0	0.034	0	5000	0	0	22.22	20	23.3		
21	0	0.034	0	5000	0	0	22.78	20	23.3		
22	0	0.034	0	5000	0	0	22.22	20	23.3		
23	0	0.034	0	5000	0	0	22.78	20	23.3		
24	0	0.034	0	5000	0	0	22.22	20	23.3		

277

25	0	0.034	0	5000	0	0	0	21.72	20	23.3
26	0	0.034	0	5000	0	0	0	22.22	20	23.3
27	0	0.034	0	5000	0	0	0	21.72	20	23.3
28	0	0.034	0	5000	0	0	0	21.72	20	23.3
29	0	0.034	0	5000	0	0	0	21.11	20	23.3
30	0	0.034	0	5000	0	0	0	21.11	20	23.3
31	0	0.034	0	5000	0	0	0	22.22	20	23.3
32	0	0.034	0	5000	0	0	0	23.89	20	23.3
33	0	0.034	0	5000	0	0	0	25	20	23.3
34	0	0.034	0	5000	0	0	0	26.11	20	23.3
35	0	0.034	0	5000	0	0	0	27.78	20	23.3
36	0	0.034	0	5000	0	0	0	29.39	20	23.3
37	0	0.034	0	5000	0	0	0	30.61	20	23.3
38	0	0.034	0	5000	0	0	0	31.11	20	23.3
39	0	0.034	0	5000	0	0	0	32.22	20	23.3
40	0	0.034	0	5000	0	0	0	31.72	20	23.3
41	0	0.034	0	5000	0	0	0	31.72	20	23.3
42	0	0.034	0	5000	0	0	0	32.22	20	23.3
43	0	0.034	0	5000	0	0	0	31.11	20	23.3
44	0	0.034	0	5000	0	0	0	23.28	20	23.3
45	0	0.034	0	5000	0	0	0	25.61	20	23.3
46	0	0.034	0	5000	0	0	0	23.89	20	23.3
47	0	0.034	0	5000	0	0	0	24.39	20	23.3
48	0	0.034	0	5000	0	0	0	23.28	20	23.3
49	0	0.034	0	5000	0	0	0	22.78	20	23.3
50	0	0.034	0	5000	0	0	0	22.78	20	23.3
51	0	0.034	0	5000	0	0	0	22.78	20	23.3
52	0	0.034	0	5000	0	0	0	21.11	20	23.3
53	0	0.034	0	5000	0	0	0	21.11	20	23.3
54	0	0.034	0	5000	0	0	0	20.61	20	23.3
55	0	0.034	0	5000	0	0	0	21.72	20	23.3
56	0	0.034	0	5000	0	0	0	24.39	20	23.3
57	0	0.034	0	5000	0	0	0	26.11	20	23.3
58	0	0.034	0	5000	0	0	0	28.89	20	23.3

59	0	0.034	0	5000	0	0	0	30.61	20	23.3
60	0	0.034	0	5000	0	0	0	32.22	20	23.3
61	0	0.034	0	5000	0	0	0	33.28	20	23.3
62	0	0.034	0	5000	0	0	0	33.89	20	23.3
63	0	0.034	0	5000	0	0	0	35.61	20	23.3
64	0	0.034	0	5000	0	0	0	36.11	20	23.3
65	0	0.034	0	5000	0	0	0	36.72	20	23.3
66	0	0.034	0	5000	0	0	0	36.11	20	23.3
67	0	0.034	0	5000	0	0	0	33.28	20	23.3
68	0	0.034	0	5000	0	0	0	31.72	20	23.3
69	0	0.034	0	5000	0	0	0	30.61	20	23.3
70	0	0.034	0	5000	0	0	0	28.28	20	23.3
71	0	0.034	0	5000	0	0	0	28.28	20	23.3
72	0	0.034	0	5000	0	0	0	26.11	20	23.3
73	0	0.034	0	5000	0	0	0	26.11	20	23.3
74	0	0.034	0	5000	0	0	0	25.61	20	23.3
75	0	0.034	0	5000	0	0	0	25	20	23.3
76	0	0.034	0	5000	0	0	0	23.28	20	23.3
77	0	0.034	0	5000	0	0	0	22.22	20	23.3
78	0	0.034	0	5000	0	0	0	20.61	20	23.3
79	0	0.034	0	5000	0	0	0	22.78	20	23.3
80	0	0.034	0	5000	0	0	0	26.72	20	23.3
81	0	0.034	0	5000	0	0	0	28.89	20	23.3
82	0	0.034	0	5000	0	0	0	32.22	20	23.3
83	0	0.034	0	5000	0	0	0	35	20	23.3
84	0	0.034	0	5000	0	0	0	35.61	20	23.3
85	0	0.034	0	5000	0	0	0	37.22	20	23.3
86	0	0.034	0	5000	0	0	0	37.22	20	23.3
87	0	0.034	0	5000	0	0	0	36.72	20	23.3
88	0	0.034	0	5000	0	0	0	37.22	20	23.3
89	0	0.034	0	5000	0	0	0	37.78	20	23.3
90	0	0.034	0	5000	0	0	0	37.22	20	23.3
91	0	0.034	0	5000	0	0	0	36.72	20	23.3
92	0	0.034	0	5000	0	0	0	35.61	20	23.3

93	0	0.034	0	5000	0	0	0	33.89	20	23.3
94	0	0.034	0	5000	0	0	0	32.22	20	23.3
95	0	0.034	0	5000	0	0	0	31.72	20	23.3
96	0	0.034	0	5000	0	0	0	31.72	20	23.3
97	0	0.034	0	5000	0	0	0	31.11	20	23.3
98	0	0.034	0	5000	0	0	0	28.89	20	23.3
99	0	0.034	0	5000	0	0	0	28.28	20	23.3
100	0	0.034	0	5000	0	0	0	27.22	20	23.3
101	0	0.034	0	5000	0	0	0	25.61	20	23.3
102	0	0.034	0	5000	0	0	0	23.89	20	23.3
103	0	0.034	0	5000	0	0	0	26.11	20	23.3
104	0	0.034	0	5000	0	0	0	28.28	20	23.3
105	0	0.034	0	5000	0	0	0	31.11	20	23.3
106	0	0.034	0	5000	0	0	0	33.89	20	23.3
107	0	0.034	0	5000	0	0	0	34.39	20	23.3
108	0	0.034	0	5000	0	0	0	35.61	20	23.3
109	0	0.034	0	5000	0	0	0	36.11	20	23.3
110	0	0.034	0	5000	0	0	0	35.61	20	23.3
111	0	0.034	0	5000	0	0	0	36.11	20	23.3
112	0	0.034	0	5000	0	0	0	36.72	20	23.3
113	0	0.034	0	5000	0	0	0	36.11	20	23.3
114	0	0.034	0	5000	0	0	0	35.61	20	23.3
115	0	0.034	0	5000	0	0	0	34.39	20	23.3
116	0	0.034	0	5000	0	0	0	32.78	20	23.3
117	0	0.034	0	5000	0	0	0	31.11	20	23.3
118	0	0.034	0	5000	0	0	0	30.61	20	23.3
119	0	0.034	0	5000	0	0	0	30	20	23.3
120	0	0.034	0	5000	0	0	0	28.89	20	23.3
121	0	0.034	0	5000	0	0	0	27.78	20	23.3
122	0	0.034	0	5000	0	0	0	25.61	20	23.3
123	0	0.034	0	5000	0	0	0	23.28	20	23.3
124	0	0.034	0	5000	0	0	0	23.89	20	23.3
125	0	0.034	0	5000	0	0	0	23.28	20	23.3
126	0	0.034	0	5000	0	0	0	22.78	20	23.3

127	0	0.034	0	5000	0	0	0	22.78	20	23.3
128	0	0.034	0	5000	0	0	0	24.39	20	23.3
129	0	0.034	0	5000	0	0	0	27.22	20	23.3
130	0	0.034	0	5000	0	0	0	29.39	20	23.3
131	0	0.034	0	5000	0	0	0	31.11	20	23.3
132	0	0.034	0	5000	0	0	0	32.22	20	23.3
133	0	0.034	0	5000	0	0	0	33.28	20	23.3
134	0	0.034	0	5000	0	0	0	33.89	20	23.3
135	0	0.034	0	5000	0	0	0	33.89	20	23.3
136	0	0.034	0	5000	0	0	0	33.89	20	23.3
137	0	0.034	0	5000	0	0	0	33.89	20	23.3
138	0	0.034	0	5000	0	0	0	33.89	20	23.3
139	0	0.034	0	5000	0	0	0	32.78	20	23.3
140	0	0.034	0	5000	0	0	0	30.61	20	23.3
141	0	0.034	0	5000	0	0	0	28.89	20	23.3
142	0	0.034	0	5000	0	0	0	25.61	20	23.3
143	0	0.034	0	5000	0	0	0	22.78	20	23.3
144	0	0.034	0	5000	0	0	0	22.78	20	23.3
145	0	0.034	0	5000	0	0	0	22.78	20	23.3
146	0	0.034	0	5000	0	0	0	21.11	20	23.3
147	0	0.034	0	5000	0	0	0	20.61	20	23.3
148	0	0.034	0	5000	0	0	0	18.28	20	23.3
149	0	0.034	0	5000	0	0	0	16.72	20	23.3
150	0	0.034	0	5000	0	0	0	16.72	20	23.3
151	0	0.034	0	5000	0	0	0	17.78	20	23.3
152	0	0.034	0	5000	0	0	0	21.72	20	23.3
153	0	0.034	0	5000	0	0	0	24.39	20	23.3
154	0	0.034	0	5000	0	0	0	26.11	20	23.3
155	0	0.034	0	5000	0	0	0	28.28	20	23.3
156	0	0.034	0	5000	0	0	0	28.89	20	23.3
157	0	0.034	0	5000	0	0	0	31.11	20	23.3
158	0	0.034	0	5000	0	0	0	32.78	20	23.3
159	0	0.034	0	5000	0	0	0	33.89	20	23.3
160	0	0.034	0	5000	0	0	0	33.89	20	23.3

161	0	0.034	0	5000	0	0	0	33.89	20	23.3
162	0	0.034	0	5000	0	0	0	33.89	20	23.3
163	0	0.034	0	5000	0	0	0	32.78	20	23.3
164	0	0.034	0	5000	0	0	0	30.61	20	23.3
165	0	0.034	0	5000	0	0	0	29.39	20	23.3
166	0	0.034	0	5000	0	0	0	26.72	20	23.3
167	0	0.034	0	5000	0	0	0	26.72	20	23.3
168	0	0.034	0	5000	0	0	0	23.28	20	23.3
169	0	0.034	0	5000	0	0	0	23.89	20	23.3
170	0	0.034	0	5000	0	0	0	19.39	20	23.3
171	0	0.034	0	5000	0	0	0	17.78	20	23.3
172	0	0.034	0	5000	0	0	0	19.39	20	23.3
173	0	0.034	0	5000	0	0	0	17.22	20	23.3
174	0	0.034	0	5000	0	0	0	15.61	20	23.3
175	0	0.034	0	5000	0	0	0	17.78	20	23.3
176	0	0.034	0	5000	0	0	0	22.22	20	23.3
177	0	0.034	0	5000	0	0	0	25	20	23.3
178	0	0.034	0	5000	0	0	0	28.28	20	23.3
179	0	0.034	0	5000	0	0	0	31.72	20	23.3
180	0	0.034	0	5000	0	0	0	32.22	20	23.3
181	0	0.034	0	5000	0	0	0	33.28	20	23.3
182	0	0.034	0	5000	0	0	0	33.89	20	23.3
183	0	0.034	0	5000	0	0	0	34.39	20	23.3
184	0	0.034	0	5000	0	0	0	35	20	23.3
185	0	0.034	0	5000	0	0	0	35.61	20	23.3
186	0	0.034	0	5000	0	0	0	35	20	23.3
187	0	0.034	0	5000	0	0	0	33.89	20	23.3
188	0	0.034	0	5000	0	0	0	31.72	20	23.3
189	0	0.034	0	5000	0	0	0	30.61	20	23.3
190	0	0.034	0	5000	0	0	0	28.89	20	23.3
191	0	0.034	0	5000	0	0	0	25.61	20	23.3
192	0	0.034	0	5000	0	0	0	27.22	20	23.3
193	0	0.034	0	5000	0	0	0	22.22	20	23.3
194	0	0.034	0	5000	0	0	0	19.39	20	23.3

195	0	0.034	0	5000	0	0	0	20.61	20	23.3
196	0	0.034	0	5000	0	0	0	20	20	23.3
197	0	0.034	0	5000	0	0	0	18.89	20	23.3
198	0	0.034	0	5000	0	0	0	16.72	20	23.3
199	0	0.034	0	5000	0	0	0	19.39	20	23.3
200	0	0.034	0	5000	0	0	0	23.89	20	23.3
201	0	0.034	0	5000	0	0	0	26.72	20	23.3
202	0	0.034	0	5000	0	0	0	29.39	20	23.3
203	0	0.034	0	5000	0	0	0	32.22	20	23.3
204	0	0.034	0	5000	0	0	0	32.78	20	23.3
205	0	0.034	0	5000	0	0	0	33.28	20	23.3
206	0	0.034	0	5000	0	0	0	35	20	23.3
207	0	0.034	0	5000	0	0	0	36.72	20	23.3
208	0	0.034	0	5000	0	0	0	36.11	20	23.3
209	0	0.034	0	5000	0	0	0	36.11	20	23.3
210	0	0.034	0	5000	0	0	0	35.61	20	23.3
211	0	0.034	0	5000	0	0	0	33.89	20	23.3
212	0	0.034	0	5000	0	0	0	32.22	20	23.3
213	0	0.034	0	5000	0	0	0	30.61	20	23.3
214	0	0.034	0	5000	0	0	0	28.28	20	23.3
215	0	0.034	0	5000	0	0	0	24.39	20	23.3
216	0	0.034	0	5000	0	0	0	26.72	20	23.3
217	0	0.034	0	5000	0	0	0	24.39	20	23.3
218	0	0.034	0	5000	0	0	0	23.89	20	23.3
219	0	0.034	0	5000	0	0	0	21.11	20	23.3
220	0	0.034	0	5000	0	0	0	21.72	20	23.3
221	0	0.034	0	5000	0	0	0	20	20	23.3
222	0	0.034	0	5000	0	0	0	17.78	20	23.3
223	0	0.034	0	5000	0	0	0	19.39	20	23.3
224	0	0.034	0	5000	0	0	0	22.78	20	23.3
225	0	0.034	0	5000	0	0	0	26.11	20	23.3
226	0	0.034	0	5000	0	0	0	29.39	20	23.3
227	0	0.034	0	5000	0	0	0	32.22	20	23.3
228	0	0.034	0	5000	0	0	0	32.78	20	23.3

229	0	0.034	0	5000	0	0	0	33.89	20	23.3
230	0	0.034	0	5000	0	0	0	35	20	23.3
231	0	0.034	0	5000	0	0	0	35.61	20	23.3
232	0	0.034	0	5000	0	0	0	36.72	20	23.3
233	0	0.034	0	5000	0	0	0	37.22	20	23.3
234	0	0.034	0	5000	0	0	0	36.11	20	23.3
235	0	0.034	0	5000	0	0	0	35	20	23.3
236	0	0.034	0	5000	0	0	0	32.78	20	23.3
237	0	0.034	0	5000	0	0	0	30.61	20	23.3
238	0	0.034	0	5000	0	0	0	30	20	23.3
239	0	0.034	0	5000	0	0	0	27.22	20	23.3
240	0	0.034	0	5000	0	0	0	25	20	23.3
241	0	0.034	0	5000	0	0	0	25	20	23.3
242	0	0.034	0	5000	0	0	0	23.89	20	23.3
243	0	0.034	0	5000	0	0	0	22.22	20	23.3
244	0	0.034	0	5000	0	0	0	20	20	23.3
245	0	0.034	0	5000	0	0	0	20	20	23.3
246	0	0.034	0	5000	0	0	0	18.28	20	23.3
247	0	0.034	0	5000	0	0	0	20.61	20	23.3
248	0	0.034	0	5000	0	0	0	23.89	20	23.3
249	0	0.034	0	5000	0	0	0	27.22	20	23.3
250	0	0.034	0	5000	0	0	0	32.78	20	23.3
251	0	0.034	0	5000	0	0	0	33.28	20	23.3
252	0	0.034	0	5000	0	0	0	35.61	20	23.3
253	0	0.034	0	5000	0	0	0	35.61	20	23.3
254	0	0.034	0	5000	0	0	0	36.11	20	23.3
255	0	0.034	0	5000	0	0	0	36.72	20	23.3
256	0	0.034	0	5000	0	0	0	37.78	20	23.3
257	0	0.034	0	5000	0	0	0	37.78	20	23.3
258	0	0.034	0	5000	0	0	0	36.72	20	23.3
259	0	0.034	0	5000	0	0	0	35.61	20	23.3
260	0	0.034	0	5000	0	0	0	33.89	20	23.3
261	0	0.034	0	5000	0	0	0	32.78	20	23.3
262	0	0.034	0	5000	0	0	0	30	20	23.3

263	0	0.034	0	5000	0	0	0	29.39	20	23.3
264	0	0.034	0	5000	0	0	0	28.28	20	23.3
265	0	0.034	0	5000	0	0	0	27.78	20	23.3
266	0	0.034	0	5000	0	0	0	26.72	20	23.3
267	0	0.034	0	5000	0	0	0	24.39	20	23.3
268	0	0.034	0	5000	0	0	0	23.89	20	23.3
269	0	0.034	0	5000	0	0	0	22.22	20	23.3
270	0	0.034	0	5000	0	0	0	22.78	20	23.3
271	0	0.034	0	5000	0	0	0	24.39	20	23.3
272	0	0.034	0	5000	0	0	0	27.22	20	23.3
273	0	0.034	0	5000	0	0	0	30	20	23.3
274	0	0.034	0	5000	0	0	0	32.78	20	23.3
275	0	0.034	0	5000	0	0	0	33.89	20	23.3
276	0	0.034	0	5000	0	0	0	34.39	20	23.3
277	0	0.034	0	5000	0	0	0	35.61	20	23.3
278	0	0.034	0	5000	0	0	0	36.72	20	23.3
279	0	0.034	0	5000	0	0	0	37.22	20	23.3
280	0	0.034	0	5000	0	0	0	37.78	20	23.3
281	0	0.034	0	5000	0	0	0	37.78	20	23.3
282	0	0.034	0	5000	0	0	0	37.78	20	23.3
283	0	0.034	0	5000	0	0	0	36.72	20	23.3
284	0	0.034	0	5000	0	0	0	35	20	23.3
285	0	0.034	0	5000	0	0	0	33.89	20	23.3
286	0	0.034	0	5000	0	0	0	32.78	20	23.3
287	0	0.034	0	5000	0	0	0	31.11	20	23.3
288	0	0.034	0	5000	0	0	0	31.72	20	23.3
289	0	0.034	0	5000	0	0	0	27.78	20	23.3
290	0	0.034	0	5000	0	0	0	25	20	23.3
291	0	0.034	0	5000	0	0	0	25.61	20	23.3
292	0	0.034	0	5000	0	0	0	25.61	20	23.3
293	0	0.034	0	5000	0	0	0	23.89	20	23.3
294	0	0.034	0	5000	0	0	0	23.89	20	23.3
295	0	0.034	0	5000	0	0	0	23.89	20	23.3
296	0	0.034	0	5000	0	0	0	27.22	20	23.3

297	0	0.034	0	5000	0	0	0	30.61	20	23.3
298	0	0.034	0	5000	0	0	0	33.28	20	23.3
299	0	0.034	0	5000	0	0	0	35	20	23.3
300	0	0.034	0	5000	0	0	0	37.22	20	23.3
301	0	0.034	0	5000	0	0	0	38.28	20	23.3
302	0	0.034	0	5000	0	0	0	38.28	20	23.3
303	0	0.034	0	5000	0	0	0	38.28	20	23.3
304	0	0.034	0	5000	0	0	0	38.89	20	23.3
305	0	0.034	0	5000	0	0	0	38.89	20	23.3
306	0	0.034	0	5000	0	0	0	38.28	20	23.3
307	0	0.034	0	5000	0	0	0	37.22	20	23.3
308	0	0.034	0	5000	0	0	0	35	20	23.3
309	0	0.034	0	5000	0	0	0	34.39	20	23.3
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311	0	0.034	0	5000	0	0	0	30.61	20	23.3
312	0	0.034	0	5000	0	0	0	28.89	20	23.3
313	0	0.034	0	5000	0	0	0	26.72	20	23.3
314	0	0.034	0	5000	0	0	0	24.39	20	23.3
315	0	0.034	0	5000	0	0	0	25.61	20	23.3
316	0	0.034	0	5000	0	0	0	23.28	20	23.3
317	0	0.034	0	5000	0	0	0	21.72	20	23.3
318	0	0.034	0	5000	0	0	0	22.22	20	23.3
319	0	0.034	0	5000	0	0	0	23.28	20	23.3
320	0	0.034	0	5000	0	0	0	25.61	20	23.3
321	0	0.034	0	5000	0	0	0	32.22	20	23.3
322	0	0.034	0	5000	0	0	0	33.89	20	23.3
323	0	0.034	0	5000	0	0	0	36.11	20	23.3
324	0	0.034	0	5000	0	0	0	36.11	20	23.3
325	0	0.034	0	5000	0	0	0	36.72	20	23.3
326	0	0.034	0	5000	0	0	0	37.22	20	23.3
327	0	0.034	0	5000	0	0	0	37.78	20	23.3
328	0	0.034	0	5000	0	0	0	36.72	20	23.3
329	0	0.034	0	5000	0	0	0	37.22	20	23.3
330	0	0.034	0	5000	0	0	0	36.72	20	23.3

331	0	0.034	0	5000	0	0	0	35.61	20	23.3
332	0	0.034	0	5000	0	0	0	33.89	20	23.3
333	0	0.034	0	5000	0	0	0	32.22	20	23.3
334	0	0.034	0	5000	0	0	0	30.61	20	23.3
335	0	0.034	0	5000	0	0	0	28.89	20	23.3
336	0	0.034	0	5000	0	0	0	26.72	20	23.3
337	0	0.034	0	5000	0	0	0	25.61	20	23.3
338	0	0.034	0	5000	0	0	0	25	20	23.3
339	0	0.034	0	5000	0	0	0	24.39	20	23.3
340	0	0.034	0	5000	0	0	0	23.28	20	23.3
341	0	0.034	0	5000	0	0	0	23.28	20	23.3
342	0	0.034	0	5000	0	0	0	22.78	20	23.3
343	0	0.034	0	5000	0	0	0	22.22	20	23.3
344	0	0.034	0	5000	0	0	0	26.72	20	23.3
345	0	0.034	0	5000	0	0	0	28.89	20	23.3
346	0	0.034	0	5000	0	0	0	32.78	20	23.3
347	0	0.034	0	5000	0	0	0	34.39	20	23.3
348	0	0.034	0	5000	0	0	0	36.72	20	23.3
349	0	0.034	0	5000	0	0	0	36.72	20	23.3
350	0	0.034	0	5000	0	0	0	37.78	20	23.3
351	0	0.034	0	5000	0	0	0	36.72	20	23.3
352	0	0.034	0	5000	0	0	0	37.78	20	23.3
353	0	0.034	0	5000	0	0	0	37.78	20	23.3
354	0	0.034	0	5000	0	0	0	37.78	20	23.3
355	0	0.034	0	5000	0	0	0	36.72	20	23.3
356	0	0.034	0	5000	0	0	0	35	20	23.3
357	0	0.034	0	5000	0	0	0	33.28	20	23.3
358	0	0.034	0	5000	0	0	0	31.11	20	23.3
359	0	0.034	0	5000	0	0	0	30.61	20	23.3
360	0	0.034	0	5000	0	0	0	27.78	20	23.3
361	0	0.034	0	5000	0	0	0	27.78	20	23.3
362	0	0.034	0	5000	0	0	0	25.61	20	23.3
363	0	0.034	0	5000	0	0	0	23.28	20	23.3
364	0	0.034	0	5000	0	0	0	23.89	20	23.3

365	0	0.034	0	5000	0	0	0	24.39	20	23.3
366	0	0.034	0	5000	0	0	0	23.89	20	23.3
367	0	0.034	0	5000	0	0	0	23.89	20	23.3
368	0	0.034	0	5000	0	0	0	27.78	20	23.3
369	0	0.034	0	5000	0	0	0	31.11	20	23.3
370	0	0.034	0	5000	0	0	0	32.78	20	23.3
371	0	0.034	0	5000	0	0	0	36.11	20	23.3
372	0	0.034	0	5000	0	0	0	37.22	20	23.3
373	0	0.034	0	5000	0	0	0	36.11	20	23.3
374	0	0.034	0	5000	0	0	0	38.28	20	23.3
375	0	0.034	0	5000	0	0	0	37.78	20	23.3
376	0	0.034	0	5000	0	0	0	38.89	20	23.3
377	0	0.034	0	5000	0	0	0	38.28	20	23.3
378	0	0.034	0	5000	0	0	0	36.11	20	23.3
379	0	0.034	0	5000	0	0	0	36.72	20	23.3
380	0	0.034	0	5000	0	0	0	35	20	23.3
381	0	0.034	0	5000	0	0	0	33.89	20	23.3
382	0	0.034	0	5000	0	0	0	31.72	20	23.3
383	0	0.034	0	5000	0	0	0	30	20	23.3
384	0	0.034	0	5000	0	0	0	28.89	20	23.3
385	0	0.034	0	5000	0	0	0	29.39	20	23.3
386	0	0.034	0	5000	0	0	0	27.22	20	23.3
387	0	0.034	0	5000	0	0	0	26.11	20	23.3
388	0	0.034	0	5000	0	0	0	25	20	23.3
389	0	0.034	0	5000	0	0	0	25	20	23.3
390	0	0.034	0	5000	0	0	0	25	20	23.3
391	0	0.034	0	5000	0	0	0	24.39	20	23.3
392	0	0.034	0	5000	0	0	0	27.78	20	23.3
393	0	0.034	0	5000	0	0	0	32.78	20	23.3
394	0	0.034	0	5000	0	0	0	33.89	20	23.3
395	0	0.034	0	5000	0	0	0	35.61	20	23.3
396	0	0.034	0	5000	0	0	0	36.11	20	23.3
397	0	0.034	0	5000	0	0	0	35.61	20	23.3
398	0	0.034	0	5000	0	0	0	37.78	20	23.3

399	0	0.034	0	5000	0	0	0	38.28	20	23.3
400	0	0.034	0	5000	0	0	0	37.22	20	23.3
401	0	0.034	0	5000	0	0	0	36.72	20	23.3
402	0	0.034	0	5000	0	0	0	36.11	20	23.3
403	0	0.034	0	5000	0	0	0	32.78	20	23.3
404	0	0.034	0	5000	0	0	0	30	20	23.3
405	0	0.034	0	5000	0	0	0	28.28	20	23.3
406	0	0.034	0	5000	0	0	0	28.28	20	23.3
407	0	0.034	0	5000	0	0	0	29.39	20	23.3
408	0	0.034	0	5000	0	0	0	28.89	20	23.3
409	0	0.034	0	5000	0	0	0	28.89	20	23.3
410	0	0.034	0	5000	0	0	0	27.78	20	23.3
411	0	0.034	0	5000	0	0	0	28.28	20	23.3
412	0	0.034	0	5000	0	0	0	26.72	20	23.3
413	0	0.034	0	5000	0	0	0	26.72	20	23.3
414	0	0.034	0	5000	0	0	0	26.11	20	23.3
415	0	0.034	0	5000	0	0	0	26.11	20	23.3
416	0	0.034	0	5000	0	0	0	28.28	20	23.3
417	0	0.034	0	5000	0	0	0	31.11	20	23.3
418	0	0.034	0	5000	0	0	0	32.78	20	23.3
419	0	0.034	0	5000	0	0	0	33.89	20	23.3
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421	0	0.034	0	5000	0	0	0	35.61	20	23.3
422	0	0.034	0	5000	0	0	0	36.72	20	23.3
423	0	0.034	0	5000	0	0	0	37.78	20	23.3
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425	0	0.034	0	5000	0	0	0	37.78	20	23.3
426	0	0.034	0	5000	0	0	0	36.72	20	23.3
427	0	0.034	0	5000	0	0	0	35	20	23.3
428	0	0.034	0	5000	0	0	0	33.89	20	23.3
429	0	0.034	0	5000	0	0	0	33.28	20	23.3
430	0	0.034	0	5000	0	0	0	32.78	20	23.3
431	0	0.034	0	5000	0	0	0	30	20	23.3
432	0	0.034	0	5000	0	0	0	31.11	20	23.3

433	0	0.034	0	5000	0	0	0	30	20	23.3
434	0	0.034	0	5000	0	0	0	28.28	20	23.3
435	0	0.034	0	5000	0	0	0	30	20	23.3
436	0	0.034	0	5000	0	0	0	27.78	20	23.3
437	0	0.034	0	5000	0	0	0	27.78	20	23.3
438	0	0.034	0	5000	0	0	0	29.39	20	23.3
439	0	0.034	0	5000	0	0	0	26.72	20	23.3
440	0	0.034	0	5000	0	0	0	29.39	20	23.3
441	0	0.034	0	5000	0	0	0	31.11	20	23.3
442	0	0.034	0	5000	0	0	0	33.89	20	23.3
443	0	0.034	0	5000	0	0	0	35	20	23.3
444	0	0.034	0	5000	0	0	0	36.11	20	23.3
445	0	0.034	0	5000	0	0	0	36.72	20	23.3
446	0	0.034	0	5000	0	0	0	37.78	20	23.3
447	0	0.034	0	5000	0	0	0	37.22	20	23.3
448	0	0.034	0	5000	0	0	0	37.22	20	23.3
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452	0	0.034	0	5000	0	0	0	33.28	20	23.3
453	0	0.034	0	5000	0	0	0	32.78	20	23.3
454	0	0.034	0	5000	0	0	0	29.39	20	23.3
455	0	0.034	0	5000	0	0	0	28.89	20	23.3
456	0	0.034	0	5000	0	0	0	27.22	20	23.3
457	0	0.034	0	5000	0	0	0	23.89	20	23.3
458	0	0.034	0	5000	0	0	0	25	20	23.3
459	0	0.034	0	5000	0	0	0	21.72	20	23.3
460	0	0.034	0	5000	0	0	0	21.11	20	23.3
461	0	0.034	0	5000	0	0	0	18.89	20	23.3
462	0	0.034	0	5000	0	0	0	19.39	20	23.3
463	0	0.034	0	5000	0	0	0	20	20	23.3
464	0	0.034	0	5000	0	0	0	23.89	20	23.3
465	0	0.034	0	5000	0	0	0	28.28	20	23.3
466	0	0.034	0	5000	0	0	0	29.39	20	23.3

467	0	0.034	0	5000	0	0	0	31.11	20	23.3
468	0	0.034	0	5000	0	0	0	32.78	20	23.3
469	0	0.034	0	5000	0	0	0	33.28	20	23.3
470	0	0.034	0	5000	0	0	0	35	20	23.3
471	0	0.034	0	5000	0	0	0	36.11	20	23.3
472	0	0.034	0	5000	0	0	0	36.72	20	23.3
473	0	0.034	0	5000	0	0	0	36.72	20	23.3
474	0	0.034	0	5000	0	0	0	36.72	20	23.3
475	0	0.034	0	5000	0	0	0	35.61	20	23.3
476	0	0.034	0	5000	0	0	0	31.72	20	23.3
477	0	0.034	0	5000	0	0	0	30.61	20	23.3
478	0	0.034	0	5000	0	0	0	26.11	20	23.3
479	0	0.034	0	5000	0	0	0	25.61	20	23.3
480	0	0.034	0	5000	0	0	0	21.11	20	23.3
481	0	0.034	0	5000	0	0	0	21.72	20	23.3
482	0	0.034	0	5000	0	0	0	20	20	23.3
483	0	0.034	0	5000	0	0	0	17.22	20	23.3
484	0	0.034	0	5000	0	0	0	17.78	20	23.3
485	0	0.034	0	5000	0	0	0	17.22	20	23.3
486	0	0.034	0	5000	0	0	0	17.22	20	23.3
487	0	0.034	0	5000	0	0	0	18.28	20	23.3
488	0	0.034	0	5000	0	0	0	22.78	20	23.3
489	0	0.034	0	5000	0	0	0	26.11	20	23.3
490	0	0.034	0	5000	0	0	0	30.61	20	23.3
491	0	0.034	0	5000	0	0	0	33.28	20	23.3
492	0	0.034	0	5000	0	0	0	34.39	20	23.3
493	0	0.034	0	5000	0	0	0	35.61	20	23.3
494	0	0.034	0	5000	0	0	0	37.78	20	23.3
495	0	0.034	0	5000	0	0	0	38.28	20	23.3
496	0	0.034	0	5000	0	0	0	38.28	20	23.3
497	0	0.034	0	5000	0	0	0	38.89	20	23.3
498	0	0.034	0	5000	0	0	0	37.78	20	23.3
499	0	0.034	0	5000	0	0	0	36.72	20	23.3
500	0	0.034	0	5000	0	0	0	34.39	20	23.3

501	0	0.034	0	5000	0	0	0	31.11	20	23.3
502	0	0.034	0	5000	0	0	0	29.39	20	23.3
503	0	0.034	0	5000	0	0	0	26.72	20	23.3
504	0	0.034	0	5000	0	0	0	25	20	23.3
505	0	0.034	0	5000	0	0	0	22.78	20	23.3
506	0	0.034	0	5000	0	0	0	22.22	20	23.3
507	0	0.034	0	5000	0	0	0	21.72	20	23.3
508	0	0.034	0	5000	0	0	0	19.39	20	23.3
509	0	0.034	0	5000	0	0	0	18.89	20	23.3
510	0	0.034	0	5000	0	0	0	18.89	20	23.3
511	0	0.034	0	5000	0	0	0	18.89	20	23.3
512	0	0.034	0	5000	0	0	0	25	20	23.3
513	0	0.034	0	5000	0	0	0	27.22	20	23.3
514	0	0.034	0	5000	0	0	0	31.11	20	23.3
515	0	0.034	0	5000	0	0	0	33.89	20	23.3
516	0	0.034	0	5000	0	0	0	35	20	23.3
517	0	0.034	0	5000	0	0	0	36.72	20	23.3
518	0	0.034	0	5000	0	0	0	38.28	20	23.3
519	0	0.034	0	5000	0	0	0	37.78	20	23.3
520	0	0.034	0	5000	0	0	0	38.28	20	23.3
521	0	0.034	0	5000	0	0	0	38.89	20	23.3
522	0	0.034	0	5000	0	0	0	37.78	20	23.3
523	0	0.034	0	5000	0	0	0	36.72	20	23.3
524	0	0.034	0	5000	0	0	0	35	20	23.3
525	0	0.034	0	5000	0	0	0	31.11	20	23.3
526	0	0.034	0	5000	0	0	0	30	20	23.3
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532	0	0.034	0	5000	0	0	0	20.61	20	23.3
533	0	0.034	0	5000	0	0	0	21.11	20	23.3
534	0	0.034	0	5000	0	0	0	21.72	20	23.3

535	0	0.034	0	5000	0	0	0	21.11	20	23.3
536	0	0.034	0	5000	0	0	0	26.11	20	23.3
537	0	0.034	0	5000	0	0	0	27.78	20	23.3
538	0	0.034	0	5000	0	0	0	30	20	23.3
539	0	0.034	0	5000	0	0	0	31.72	20	23.3
540	0	0.034	0	5000	0	0	0	33.28	20	23.3
541	0	0.034	0	5000	0	0	0	34.39	20	23.3
542	0	0.034	0	5000	0	0	0	36.11	20	23.3
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546	0	0.034	0	5000	0	0	0	37.22	20	23.3
547	0	0.034	0	5000	0	0	0	36.11	20	23.3
548	0	0.034	0	5000	0	0	0	33.89	20	23.3
549	0	0.034	0	5000	0	0	0	33.28	20	23.3
550	0	0.034	0	5000	0	0	0	30	20	23.3
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552	0	0.034	0	5000	0	0	0	24.39	20	23.3
553	0	0.034	0	5000	0	0	0	24.39	20	23.3
554	0	0.034	0	5000	0	0	0	25	20	23.3
555	0	0.034	0	5000	0	0	0	22.22	20	23.3
556	0	0.034	0	5000	0	0	0	21.72	20	23.3
557	0	0.034	0	5000	0	0	0	20	20	23.3
558	0	0.034	0	5000	0	0	0	18.89	20	23.3
559	0	0.034	0	5000	0	0	0	20	20	23.3
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561	0	0.034	0	5000	0	0	0	28.89	20	23.3
562	0	0.034	0	5000	0	0	0	31.72	20	23.3
563	0	0.034	0	5000	0	0	0	33.89	20	23.3
564	0	0.034	0	5000	0	0	0	35.61	20	23.3
565	0	0.034	0	5000	0	0	0	37.22	20	23.3
566	0	0.034	0	5000	0	0	0	37.22	20	23.3
567	0	0.034	0	5000	0	0	0	37.22	20	23.3
568	0	0.034	0	5000	0	0	0	38.28	20	23.3

569	0	0.034	0	5000	0	0	0	38.28	20	23.3
570	0	0.034	0	5000	0	0	0	37.78	20	23.3
571	0	0.034	0	5000	0	0	0	36.72	20	23.3
572	0	0.034	0	5000	0	0	0	33.28	20	23.3
573	0	0.034	0	5000	0	0	0	32.22	20	23.3
574	0	0.034	0	5000	0	0	0	30	20	23.3
575	0	0.034	0	5000	0	0	0	27.78	20	23.3
576	0	0.034	0	5000	0	0	0	27.22	20	23.3
577	0	0.034	0	5000	0	0	0	25.61	20	23.3
578	0	0.034	0	5000	0	0	0	27.22	20	23.3
579	0	0.034	0	5000	0	0	0	23.89	20	23.3
580	0	0.034	0	5000	0	0	0	21.72	20	23.3
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582	0	0.034	0	5000	0	0	0	21.11	20	23.3
583	0	0.034	0	5000	0	0	0	23.28	20	23.3
584	0	0.034	0	5000	0	0	0	26.11	20	23.3
585	0	0.034	0	5000	0	0	0	29.39	20	23.3
586	0	0.034	0	5000	0	0	0	33.89	20	23.3
587	0	0.034	0	5000	0	0	0	35	20	23.3
588	0	0.034	0	5000	0	0	0	36.11	20	23.3
589	0	0.034	0	5000	0	0	0	36.72	20	23.3
590	0	0.034	0	5000	0	0	0	37.78	20	23.3
591	0	0.034	0	5000	0	0	0	35.61	20	23.3
592	0	0.034	0	5000	0	0	0	34.39	20	23.3
593	0	0.034	0	5000	0	0	0	30	20	23.3
594	0	0.034	0	5000	0	0	0	32.22	20	23.3
595	0	0.034	0	5000	0	0	0	31.72	20	23.3
596	0	0.034	0	5000	0	0	0	30	20	23.3
597	0	0.034	0	5000	0	0	0	28.89	20	23.3
598	0	0.034	0	5000	0	0	0	28.89	20	23.3
599	0	0.034	0	5000	0	0	0	25.61	20	23.3
600	0	0.034	0	5000	0	0	0	26.11	20	23.3
601	0	0.034	0	5000	0	0	0	26.11	20	23.3
602	0	0.034	0	5000	0	0	0	23.28	20	23.3

603	0	0.034	0	5000	0	0	0	23.89	20	23.3
604	0	0.034	0	5000	0	0	0	21.72	20	23.3
605	0	0.034	0	5000	0	0	0	21.72	20	23.3
606	0	0.034	0	5000	0	0	0	21.11	20	23.3
607	0	0.034	0	5000	0	0	0	22.22	20	23.3
608	0	0.034	0	5000	0	0	0	23.89	20	23.3
609	0	0.034	0	5000	0	0	0	28.28	20	23.3
610	0	0.034	0	5000	0	0	0	30.61	20	23.3
611	0	0.034	0	5000	0	0	0	31.11	20	23.3
612	0	0.034	0	5000	0	0	0	32.78	20	23.3
613	0	0.034	0	5000	0	0	0	32.78	20	23.3
614	0	0.034	0	5000	0	0	0	31.11	20	23.3
615	0	0.034	0	5000	0	0	0	31.11	20	23.3
616	0	0.034	0	5000	0	0	0	28.89	20	23.3
617	0	0.034	0	5000	0	0	0	29.39	20	23.3
618	0	0.034	0	5000	0	0	0	28.89	20	23.3
619	0	0.034	0	5000	0	0	0	28.89	20	23.3
620	0	0.034	0	5000	0	0	0	27.78	20	23.3
621	0	0.034	0	5000	0	0	0	25.61	20	23.3
622	0	0.034	0	5000	0	0	0	25.61	20	23.3
623	0	0.034	0	5000	0	0	0	25.61	20	23.3
624	0	0.034	0	5000	0	0	0	25	20	23.3
625	0	0.034	0	5000	0	0	0	24.39	20	23.3
626	0	0.034	0	5000	0	0	0	22.78	20	23.3
627	0	0.034	0	5000	0	0	0	23.28	20	23.3
628	0	0.034	0	5000	0	0	0	23.28	20	23.3
629	0	0.034	0	5000	0	0	0	23.89	20	23.3
630	0	0.034	0	5000	0	0	0	22.78	20	23.3
631	0	0.034	0	5000	0	0	0	21.72	20	23.3
632	0	0.034	0	5000	0	0	0	23.28	20	23.3
633	0	0.034	0	5000	0	0	0	23.89	20	23.3
634	0	0.034	0	5000	0	0	0	25.61	20	23.3
635	0	0.034	0	5000	0	0	0	27.78	20	23.3
636	0	0.034	0	5000	0	0	0	28.28	20	23.3

637	0	0.034	0	5000	0	0	0	30.61	20	23.3
638	0	0.034	0	5000	0	0	0	31.11	20	23.3
639	0	0.034	0	5000	0	0	0	31.72	20	23.3
640	0	0.034	0	5000	0	0	0	32.22	20	23.3
641	0	0.034	0	5000	0	0	0	31.72	20	23.3
642	0	0.034	0	5000	0	0	0	31.72	20	23.3
643	0	0.034	0	5000	0	0	0	31.11	20	23.3
644	0	0.034	0	5000	0	0	0	29.39	20	23.3
645	0	0.034	0	5000	0	0	0	28.28	20	23.3
646	0	0.034	0	5000	0	0	0	27.22	20	23.3
647	0	0.034	0	5000	0	0	0	26.72	20	23.3
648	0	0.034	0	5000	0	0	0	26.11	20	23.3
649	0	0.034	0	5000	0	0	0	25.61	20	23.3
650	0	0.034	0	5000	0	0	0	22.22	20	23.3
651	0	0.034	0	5000	0	0	0	23.28	20	23.3
652	0	0.034	0	5000	0	0	0	21.72	20	23.3
653	0	0.034	0	5000	0	0	0	21.11	20	23.3
654	0	0.034	0	5000	0	0	0	21.72	20	23.3
655	0	0.034	0	5000	0	0	0	21.72	20	23.3
656	0	0.034	0	5000	0	0	0	25	20	23.3
657	0	0.034	0	5000	0	0	0	27.22	20	23.3
658	0	0.034	0	5000	0	0	0	29.39	20	23.3
659	0	0.034	0	5000	0	0	0	31.11	20	23.3
660	0	0.034	0	5000	0	0	0	32.22	20	23.3
661	0	0.034	0	5000	0	0	0	32.78	20	23.3
662	0	0.034	0	5000	0	0	0	33.89	20	23.3
663	0	0.034	0	5000	0	0	0	35	20	23.3
664	0	0.034	0	5000	0	0	0	36.11	20	23.3
665	0	0.034	0	5000	0	0	0	35.61	20	23.3
666	0	0.034	0	5000	0	0	0	35	20	23.3
667	0	0.034	0	5000	0	0	0	34.39	20	23.3
668	0	0.034	0	5000	0	0	0	33.28	20	23.3
669	0	0.034	0	5000	0	0	0	32.22	20	23.3
670	0	0.034	0	5000	0	0	0	31.11	20	23.3

671	0	0.034	0	5000	0	0	0	27.78	20	23.3
672	0	0.034	0	5000	0	0	0	28.89	20	23.3
673	0	0.034	0	5000	0	0	0	29.39	20	23.3
674	0	0.034	0	5000	0	0	0	27.78	20	23.3
675	0	0.034	0	5000	0	0	0	24.39	20	23.3
676	0	0.034	0	5000	0	0	0	23.89	20	23.3
677	0	0.034	0	5000	0	0	0	22.78	20	23.3
678	0	0.034	0	5000	0	0	0	21.72	20	23.3
679	0	0.034	0	5000	0	0	0	22.78	20	23.3
680	0	0.034	0	5000	0	0	0	26.11	20	23.3
681	0	0.034	0	5000	0	0	0	28.89	20	23.3
682	0	0.034	0	5000	0	0	0	31.11	20	23.3
683	0	0.034	0	5000	0	0	0	33.28	20	23.3
684	0	0.034	0	5000	0	0	0	35	20	23.3
685	0	0.034	0	5000	0	0	0	36.72	20	23.3
686	0	0.034	0	5000	0	0	0	37.22	20	23.3
687	0	0.034	0	5000	0	0	0	37.22	20	23.3
688	0	0.034	0	5000	0	0	0	37.78	20	23.3
689	0	0.034	0	5000	0	0	0	37.22	20	23.3
690	0	0.034	0	5000	0	0	0	37.22	20	23.3
691	0	0.034	0	5000	0	0	0	36.11	20	23.3
692	0	0.034	0	5000	0	0	0	34.39	20	23.3
693	0	0.034	0	5000	0	0	0	33.28	20	23.3
694	0	0.034	0	5000	0	0	0	30.61	20	23.3
695	0	0.034	0	5000	0	0	0	31.11	20	23.3
696	0	0.034	0	5000	0	0	0	28.28	20	23.3
697	0	0.034	0	5000	0	0	0	26.11	20	23.3
698	0	0.034	0	5000	0	0	0	27.78	20	23.3
699	0	0.034	0	5000	0	0	0	24.39	20	23.3
700	0	0.034	0	5000	0	0	0	25.61	20	23.3
701	0	0.034	0	5000	0	0	0	24.39	20	23.3
702	0	0.034	0	5000	0	0	0	23.89	20	23.3
703	0	0.034	0	5000	0	0	0	25	20	23.3
704	0	0.034	0	5000	0	0	0	27.22	20	23.3

705	0	0.034	0	5000	0	0	0	30.61	20	23.3
706	0	0.034	0	5000	0	0	0	32.78	20	23.3
707	0	0.034	0	5000	0	0	0	33.89	20	23.3
708	0	0.034	0	5000	0	0	0	33.28	20	23.3
709	0	0.034	0	5000	0	0	0	33.89	20	23.3
710	0	0.034	0	5000	0	0	0	32.22	20	23.3
711	0	0.034	0	5000	0	0	0	32.22	20	23.3
712	0	0.034	0	5000	0	0	0	31.72	20	23.3
713	0	0.034	0	5000	0	0	0	31.72	20	23.3
714	0	0.034	0	5000	0	0	0	32.22	20	23.3
715	0	0.034	0	5000	0	0	0	31.72	20	23.3
716	0	0.034	0	5000	0	0	0	30	20	23.3
717	0	0.034	0	5000	0	0	0	28.89	20	23.3
718	0	0.034	0	5000	0	0	0	28.28	20	23.3
719	0	0.034	0	5000	0	0	0	27.78	20	23.3
720	0	0.034	0	5000	0	0	0	27.22	20	23.3

end*** END OF INPUT FILE 'ATMOSPH.IN' *****

Qf2

Pcp_File_Version=4

* METEOROLOGICAL PARAMETERS AND INFORMATION |||||

MeteoRecords Radiation Penman-Hargreaves

1 1 f

lEnBal lDaily lDummy lDummy lDummy lDummy lDummy lDummy lDummy lDummy

f f f f f t f f f f

Latitude Altitude

36 115

ShortWaveRadA ShortWaveRadB

0.25 0.5

LongWaveRadA LongWaveRadB

0.9 0.1

LongWaveRadA1 LongWaveRadB1

0.34 -0.139

WindHeight TempHeight

200 200

iCrop (=0: no crop, =1: constant, =2: table, =3: daily) SunShine RelativeHum

0 0 0

Albedo

0.23

Daily values

t Rad TMax TMin RHMean Wind SunHours CropHeight Albedo LAI(SCF) rRoot

[T] [MJ/m2/d] [C] [C] [%] [km/d] [hour] [L] [-] [-] [L]

720 300 50 20 95 30 4

end *** END OF INPUT FILE 'METEO.IN' *****

299

Qf3

Pcp_File_Version=4

* METEOROLOGICAL PARAMETERS AND INFORMATION |||||

MeteoRecords Radiation Penman-Hargreaves

1 1 f

lEnBal lDaily lDummy lDummy lDummy lDummy lDummy lDummy lDummy lDummy

f f f f f t f f f f

Latitude Altitude

36 115

ShortWaveRadA ShortWaveRadB

0.25 0.5

LongWaveRadA LongWaveRadB

0.9 0.1

LongWaveRadA1 LongWaveRadB1

0.34 -0.139

WindHeight TempHeight

200 200

iCrop (=0: no crop, =1: constant, =2: table, =3: daily) SunShine RelativeHum

0 0 0

Albedo

0.23

Daily values

t Rad TMax TMin RHMean Wind SunHours CropHeight Albedo LAI(SCF) rRoot

[T] [MJ/m2/d] [C] [C] [%] [km/d] [hour] [L] [-] [-] [L]

720 300 50 20 95 30 4

end *** END OF INPUT FILE 'METEO.IN' *****

300

Qf4

Pcp_File_Version=4

* METEOROLOGICAL PARAMETERS AND INFORMATION |||||

MeteoRecords Radiation Penman-Hargreaves

1 1 f

lEnBal lDaily lDummy lDummy lDummy lDummy lDummy lDummy lDummy lDummy

f f f f f t f f f f

Latitude Altitude

36 115

ShortWaveRadA ShortWaveRadB

0.25 0.5

LongWaveRadA LongWaveRadB

0.9 0.1

LongWaveRadA1 LongWaveRadB1

0.34 -0.139

WindHeight TempHeight

200 200

iCrop (=0: no crop, =1: constant, =2: table, =3: daily) SunShine RelativeHum

0 0 0

Albedo

0.23

Daily values

t Rad TMax TMin RHMean Wind SunHours CropHeight Albedo LAI(SCF) rRoot

[T] [MJ/m2/d] [C] [C] [%] [km/d] [hour] [L] [-] [-] [L]

720 300 50 20 95 30 4

end *** END OF INPUT FILE 'METEO.IN' *****

301

Qf5

Pcp_File_Version=4

* METEOROLOGICAL PARAMETERS AND INFORMATION |||||

MeteoRecords Radiation Penman-Hargreaves

1 1 f

lEnBal lDaily lDummy lDummy lDummy lDummy lDummy lDummy lDummy lDummy

f f f f f t f f f f

Latitude Altitude

36 115

ShortWaveRadA ShortWaveRadB

0.25 0.5

LongWaveRadA LongWaveRadB

0.9 0.1

LongWaveRadA1 LongWaveRadB1

0.34 -0.139

WindHeight TempHeight

200 200

iCrop (=0: no crop, =1: constant, =2: table, =3: daily) SunShine RelativeHum

0 0 0

Albedo

0.23

Daily values

t Rad TMax TMin RHMean Wind SunHours CropHeight Albedo LAI(SCF) rRoot

[T] [MJ/m2/d] [C] [C] [%] [km/d] [hour] [L] [-] [-] [L]

720 300 50 20 95 30 4

end *** END OF INPUT FILE 'METEO.IN' *****

302

```

Qp1
Pcp_File_Version=4
* METEOROLOGICAL PARAMETERS AND INFORMATION |||
MeteoRecords Radiation Penman-Hargreaves
    1    1    f
lEnBal lDaily lDummy lDummy lDummy lDummy lDummy lDummy lDummy lDummy
    f    f    f    f    t    f    f    f    f
Latitude Altitude
    36    115
ShortWaveRadA ShortWaveRadB
    0.25    0.5
LongWaveRadA LongWaveRadB
    0.9    0.1
LongWaveRadA1 LongWaveRadB1
    0.34    -0.139
WindHeight TempHeight
    200    200
iCrop (=0: no crop, =1: constant, =2: table, =3: daily) SunShine RelativeHum
    0                                0    0
Albedo
    0.23
Daily values
    t    Rad    TMax    TMin    RHMean    Wind    SunHours CropHeight    Albedo    LAI(SCF)    rRoot
    [T] [MJ/m2/d] [C]    [C]    [%]    [km/d] [hour] [L]    [-]    [-]    [L]
    720    300    50    20    95    30    4
end *** END OF INPUT FILE 'METEO.IN' *****

```

303

Qp2

Pcp_File_Version=4

* METEOROLOGICAL PARAMETERS AND INFORMATION |||||

MeteoRecords Radiation Penman-Hargreaves

1 1 f

lEnBal lDaily lDummy lDummy lDummy lDummy lDummy lDummy lDummy lDummy

f f f f f t f f f f

Latitude Altitude

36 115

ShortWaveRadA ShortWaveRadB

0.25 0.5

LongWaveRadA LongWaveRadB

0.9 0.1

LongWaveRadA1 LongWaveRadB1

0.34 -0.139

WindHeight TempHeight

200 200

iCrop (=0: no crop, =1: constant, =2: table, =3: daily) SunShine RelativeHum

0 0 0

Albedo

0.23

Daily values

t Rad TMax TMin RHMean Wind SunHours CropHeight Albedo LAI(SCF) rRoot

[T] [MJ/m2/d] [C] [C] [%] [km/d] [hour] [L] [-] [-] [L]

720 300 50 20 95 30 4

end *** END OF INPUT FILE 'METEO.IN' *****

304

Qp3

Pcp_File_Version=4

* METEOROLOGICAL PARAMETERS AND INFORMATION |||||

MeteoRecords Radiation Penman-Hargreaves

1 1 f

lEnBal lDaily lDummy lDummy lDummy lDummy lDummy lDummy lDummy lDummy

f f f f f t f f f f

Latitude Altitude

36 115

ShortWaveRadA ShortWaveRadB

0.25 0.5

LongWaveRadA LongWaveRadB

0.9 0.1

LongWaveRadA1 LongWaveRadB1

0.34 -0.139

WindHeight TempHeight

200 200

iCrop (=0: no crop, =1: constant, =2: table, =3: daily) SunShine RelativeHum

0 0 0

Albedo

0.23

Daily values

t Rad TMax TMin RHMean Wind SunHours CropHeight Albedo LAI(SCF) rRoot

[T] [MJ/m2/d] [C] [C] [%] [km/d] [hour] [L] [-] [-] [L]

720 300 50 20 95 30 4

end *** END OF INPUT FILE 'METEO.IN' *****

305

Qf2

Pcp_File_Version=4

*** BLOCK A: BASIC INFORMATION ****

Heading

Welcome to HYDRUS-1D

LUnit TUnit MUnit (indicated units are obligatory for all input data)

cm

hours

mmol

IWat IChem ITemp ISink IRoot IShort IWDep IScreen IVariabBC IEquil IInverse

t f t f f f t t t t f

ISnow IHP1 IMeteo IVapor IDummy IFluxes IDummy IDummy IDummy

f f f f f f f f f f

NMat NLay CosAlpha

1 1 1

*** BLOCK B: WATER FLOW INFORMATION ****

MaxIt TolTh TolH (maximum number of iterations and tolerances)

10 0.001 1

TopInf WLayer KodTop InitCond

t t -1 f

BotInf qGWL FreeD SeepF KodBot DrainF hSeep

f f t f -1 f 0

hTab1 hTabN

1e-006 10000

Model Hysteresis

0 0

thr ths Alfa n Ks l

0.04 0.39 0.03 1.51 1.76 -0.8

*** BLOCK C: TIME INFORMATION ****

dt dtMin dtMax DMul DMul2 ItMin ItMax MPL

0.0001 0.0001 0.1 1.3 0.7 3 7 10

tInit tMax

0 720

lPrintD nPrintSteps tPrintInterval lEnter

306

```

t      1      24      t
TPrint(1),TPrint(2),...,TPrint(MPL)
  72    144    216    288    360    432
 504    576    648    720
*** BLOCK E: HEAT TRANSPORT INFORMATION *****
Qn  Qo  Disper.  B1    B2    B3    Cn    Co    Cw
0.62  0   5 1.13374e+012 1.83358e+012 7.15703e+012 2.48832e+011 3.25296e+011 5.41728e+011
tAmpl  tPeriod  Campbell  MeltConst  IDummy  IDummy  IDummy  IDummy  IDummy
23.3   24      0  0.43    f    f    f    f    f
kTopT  TTop    kBotT    TBot
  1     30     1     20
*** END OF INPUT FILE 'SELECTOR.IN' *****

```

Qf3
Pcp_File_Version=4
*** BLOCK A: BASIC INFORMATION *****

Heading
Welcome to HYDRUS-1D
LUnit TUnit MUnit (indicated units are obligatory for all input data)
cm
hours
mmol
IWat lChem lTemp lSink lRoot lShort lWDep lScreen lVariabBC lEquil lInverse
t f t f f f t t t t f
lSnow lHP1 lMeteo lVapor lDummy lFluxes lDummy lDummy lDummy lDummy
f f f f f f f f f f
NMat NLayer CosAlpha
1 1 1

*** BLOCK B: WATER FLOW INFORMATION *****

MaxIt TolTh TolH (maximum number of iterations and tolerances)
10 0.001 1
TopInf WLayer KodTop InitCond
t t -1 f
BotInf qGWL FreeD SeepF KodBot DrainF hSeep
f f t f -1 f 0
hTab1 hTabN
1e-006 10000
Model Hysteresis
0 0
thr ths Alfa n Ks l
0.044 0.389 0.026 1.504 1.36 -0.835

*** BLOCK C: TIME INFORMATION *****

dt dtMin dtMax DMul DMul2 ItMin ItMax MPL
0.0001 0.0001 0.1 1.3 0.7 3 7 10
tInit tMax
0 720
lPrintD nPrintSteps tPrintInterval lEnter

308


```

t      1      24      t
TPrint(1),TPrint(2),...,TPrint(MPL)
  72    144    216    288    360    432
 504    576    648    720
*** BLOCK E: HEAT TRANSPORT INFORMATION *****
Qn  Qo  Disper.  B1    B2    B3    Cn    Co    Cw
0.62  0   5 1.13374e+012 1.83358e+012 7.15703e+012 2.48832e+011 3.25296e+011 5.41728e+011
tAmpl  tPeriod  Campbell  MeltConst  IDummy  IDummy  IDummy  IDummy  IDummy
23.3   24      0  0.43    f    f    f    f    f
kTopT  TTop    kBotT    TBot
  1     30     1     20
*** END OF INPUT FILE 'SELECTOR.IN' *****

```

Qf4

Pcp_File_Version=4

*** BLOCK A: BASIC INFORMATION ****

Heading

Welcome to HYDRUS-1D

LUnit TUnit MUnit (indicated units are obligatory for all input data)

cm

hours

mmol

IWat IChem ITemp ISink IRoot IShort IWDep IScreen IVariabBC IEquil IInverse

t f t f f f t t t t f

ISnow IHP1 IMeteo IVapor IDummy IFluxes IDummy IDummy IDummy

f f f f f f f f f f

NMat NLay CosAlpha

1 1 1

*** BLOCK B: WATER FLOW INFORMATION ****

MaxIt TolTh TolH (maximum number of iterations and tolerances)

10 0.001 1

TopInf WLayer KodTop InitCond

t t -1 f

BotInf qGWL FreeD SeepF KodBot DrainF hSeep

f f t f -1 f 0

hTab1 hTabN

1e-006 10000

Model Hysteresis

0 0

thr ths Alfa n Ks l

0.032 0.286 0.03 1.45 0.98 -1.113

*** BLOCK C: TIME INFORMATION ****

dt dtMin dtMax DMul DMul2 ItMin ItMax MPL

0.0001 0.0001 0.1 1.3 0.7 3 7 10

tInit tMax

0 720

lPrintD nPrintSteps tPrintInterval lEnter

310

```

t      1      24      t
TPrint(1),TPrint(2),...,TPrint(MPL)
  72    144    216    288    360    432
 504    576    648    720
*** BLOCK E: HEAT TRANSPORT INFORMATION *****
Qn  Qo  Disper.  B1    B2    B3    Cn    Co    Cw
0.62  0   5 1.13374e+012 1.83358e+012 7.15703e+012 2.48832e+011 3.25296e+011 5.41728e+011
tAmpl  tPeriod  Campbell  MeltConst  IDummy  IDummy  IDummy  IDummy  IDummy
23.3   24      0  0.43    f    f    f    f    f
kTopT  TTop    kBotT    TBot
  1     30     1     20
*** END OF INPUT FILE 'SELECTOR.IN' *****

```

Qf5
Pcp_File_Version=4
*** BLOCK A: BASIC INFORMATION *****

Heading
Welcome to HYDRUS-1D
LUnit TUnit MUnit (indicated units are obligatory for all input data)
cm
hours
mmol
IWat lChem lTemp lSink lRoot lShort lWDep lScreen lVariabBC lEquil lInverse
t f t f f f t t t t f
lSnow lHP1 lMeteo lVapor lDummy lFluxes lDummy lDummy lDummy
f f f f f f f f f f
NMat NLayer CosAlpha
1 1 1

*** BLOCK B: WATER FLOW INFORMATION *****

MaxIt TolTh TolH (maximum number of iterations and tolerances)
10 0.001 1
TopInf WLayer KodTop InitCond
t t -1 f
BotInf qGWL FreeD SeepF KodBot DrainF hSeep
f f t f -1 f 0
hTab1 hTabN
1e-006 10000
Model Hysteresis
0 0
thr ths Alfa n Ks l
0.038 0.345 0.042 1.584 1.262 -1.358

*** BLOCK C: TIME INFORMATION *****

dt dtMin dtMax DMul DMul2 ItMin ItMax MPL
0.0001 0.0001 0.1 1.3 0.7 3 7 10
tInit tMax
0 720
lPrintD nPrintSteps tPrintInterval lEnter

312

```

t      1      24      t
TPrint(1),TPrint(2),...,TPrint(MPL)
  72    144    216    288    360    432
 504    576    648    720
*** BLOCK E: HEAT TRANSPORT INFORMATION *****
Qn  Qo  Disper.  B1    B2    B3    Cn    Co    Cw
0.62  0   5 1.13374e+012 1.83358e+012 7.15703e+012 2.48832e+011 3.25296e+011 5.41728e+011
tAmpl  tPeriod  Campbell  MeltConst  IDummy  IDummy  IDummy  IDummy  IDummy
23.3   24      0  0.43    f    f    f    f    f
kTopT  TTop    kBotT    TBot
  1     30     1     20
*** END OF INPUT FILE 'SELECTOR.IN' *****

```

Qp1
Pcp_File_Version=4
*** BLOCK A: BASIC INFORMATION *****

Heading
Welcome to HYDRUS-1D
LUnit TUnit MUnit (indicated units are obligatory for all input data)
cm
hours
mmol
IWat lChem lTemp lSink lRoot lShort lWDep lScreen lVariabBC lEquil lInverse
t f t f f f t t t t f
lSnow lHP1 lMeteo lVapor lDummy lFluxes lDummy lDummy lDummy
f f f f f f f f f f
NMat NLayer CosAlpha
1 1 1

*** BLOCK B: WATER FLOW INFORMATION *****

MaxIt TolTh TolH (maximum number of iterations and tolerances)
10 0.001 1
TopInf WLayer KodTop InitCond
t t -1 f
BotInf qGWL FreeD SeepF KodBot DrainF hSeep
f f t f -1 f 0
hTab1 hTabN
1e-006 10000
Model Hysteresis
0 0
thr ths Alfa n Ks l
0.043 0.381 0.042 1.549 2.108 -1.069

*** BLOCK C: TIME INFORMATION *****

dt dtMin dtMax DMul DMul2 ItMin ItMax MPL
0.0001 0.0001 0.1 1.3 0.7 3 7 10
tInit tMax
0 720
lPrintD nPrintSteps tPrintInterval lEnter

314

```

t      1      24      t
TPrint(1),TPrint(2),...,TPrint(MPL)
  72    144    216    288    360    432
 504    576    648    720
*** BLOCK E: HEAT TRANSPORT INFORMATION *****
Qn  Qo  Disper.  B1    B2    B3    Cn    Co    Cw
0.62  0   5 1.13374e+012 1.83358e+012 7.15703e+012 2.48832e+011 3.25296e+011 5.41728e+011
tAmpl  tPeriod  Campbell  MeltConst  IDummy  IDummy  IDummy  IDummy  IDummy
23.3   24      0  0.43    f    f    f    f    f
kTopT  TTop    kBotT    TBot
  1     30     1     20
*** END OF INPUT FILE 'SELECTOR.IN' *****

```

Qp2

Pcp_File_Version=4

*** BLOCK A: BASIC INFORMATION ****

Heading

Welcome to HYDRUS-1D

LUnit TUnit MUnit (indicated units are obligatory for all input data)

cm

hours

mmol

IWat IChem ITemp ISink IRoot IShort IWDep IScreen IVariabBC IEquil IInverse

t f t f f f t t t t f

ISnow IHP1 IMeteo IVapor IDummy IFluxes IDummy IDummy IDummy

f f f f f f f f f f

NMat NLay CosAlpha

1 1 1

*** BLOCK B: WATER FLOW INFORMATION ****

MaxIt TolTh TolH (maximum number of iterations and tolerances)

10 0.001 1

TopInf WLayer KodTop InitCond

t t -1 f

BotInf qGWL FreeD SeepF KodBot DrainF hSeep

f f t f -1 f 0

hTab1 hTabN

1e-006 10000

Model Hysteresis

0 0

thr ths Alfa n Ks l

0.042 0.34 0.042 1.573 1.452 -1.39

*** BLOCK C: TIME INFORMATION ****

dt dtMin dtMax DMul DMul2 ItMin ItMax MPL

0.0001 0.0001 0.1 1.3 0.7 3 7 10

tInit tMax

0 720

lPrintD nPrintSteps tPrintInterval lEnter

316


```

t      1      24      t
TPrint(1),TPrint(2),...,TPrint(MPL)
  72    144    216    288    360    432
 504    576    648    720
*** BLOCK E: HEAT TRANSPORT INFORMATION *****
Qn  Qo  Disper.  B1    B2    B3    Cn    Co    Cw
0.62  0   5 1.13374e+012 1.83358e+012 7.15703e+012 2.48832e+011 3.25296e+011 5.41728e+011
tAmpl tPeriod  Campbell MeltConst IDummy IDummy IDummy IDummy IDummy
23.3   24     0  0.43   f   f   f   f   f
kTopT  TTop    kBotT   TBot
  1     30     1     20
*** END OF INPUT FILE 'SELECTOR.IN' *****

```

Qp3

Pcp_File_Version=4

*** BLOCK A: BASIC INFORMATION ****

Heading

Welcome to HYDRUS-1D

LUnit TUnit MUnit (indicated units are obligatory for all input data)

cm

hours

mmol

IWat IChem ITemp ISink IRoot IShort IWDep IScreen IVariabBC IEquil IInverse

t f t f f f t t t t f

ISnow IHP1 IMeteo IVapor IDummy IFluxes IDummy IDummy IDummy

f f f f f f f f f f

NMat NLay CosAlpha

1 1 1

*** BLOCK B: WATER FLOW INFORMATION ****

MaxIt TolTh TolH (maximum number of iterations and tolerances)

10 0.001 1

TopInf WLayer KodTop InitCond

t t -1 f

BotInf qGWL FreeD SeepF KodBot DrainF hSeep

f f t f -1 f 0

hTab1 hTabN

1e-006 10000

Model Hysteresis

0 0

thr ths Alfa n Ks l

0.041 0.377 0.031 1.597 1.7 -0.868

*** BLOCK C: TIME INFORMATION ****

dt dtMin dtMax DMul DMul2 ItMin ItMax MPL

0.0001 0.0001 0.1 1.3 0.7 3 7 10

tInit tMax

0 720

lPrintD nPrintSteps tPrintInterval lEnter

318

```

t      1      24      t
TPrint(1),TPrint(2),...,TPrint(MPL)
  72    144    216    288    360    432
 504    576    648    720
*** BLOCK E: HEAT TRANSPORT INFORMATION *****
Qn  Qo  Disper.  B1    B2    B3    Cn    Co    Cw
0.62  0   5 1.13374e+012 1.83358e+012 7.15703e+012 2.48832e+011 3.25296e+011 5.41728e+011
tAmpl tPeriod  Campbell MeltConst IDummy IDummy IDummy IDummy IDummy
23.3   24     0  0.43   f   f   f   f   f
kTopT  TTop    kBotT   TBot
  1     30     1     20
*** END OF INPUT FILE 'SELECTOR.IN' *****

```

Qf2

Pcp_File_Version=4

*** BLOCK I: ATMOSPHERIC INFORMATION *****

MaxAL (MaxAL = number of atmospheric data-records)

720

DailyVar SinusVar IDummy IDummy IDummy IDummy IDummy IDummy IDummy IDummy

f f f f f t f f f f

hCritS (max. allowed pressure head at the soil surface)

0

tAtm	Prec	rSoil	rRoot	hCritA	rB	hB	ht	tTop	tBot	Ampl	RootDepth
1	0	0.034	0	5000	0	0	26.72	20	23.3		
2	0	0.034	0	5000	0	0	26.72	20	23.3		
3	0	0.034	0	5000	0	0	26.72	20	23.3		
4	0	0.034	0	5000	0	0	25.61	20	23.3		
5	0	0.034	0	5000	0	0	24.39	20	23.3		
6	0	0.034	0	5000	0	0	23.89	20	23.3		
7	0	0.034	0	5000	0	0	23.89	20	23.3		
8	0	0.034	0	5000	0	0	23.28	20	23.3		
9	0	0.034	0	5000	0	0	25	20	23.3		
10	0	0.034	0	5000	0	0	23.89	20	23.3		
11	0	0.034	0	5000	0	0	21.72	20	23.3		
12	0	0.034	0	5000	0	0	21.11	20	23.3		
13	0	0.034	0	5000	0	0	21.72	20	23.3		
14	0	0.034	0	5000	0	0	22.78	20	23.3		
15	0	0.034	0	5000	0	0	23.89	20	23.3		
16	0	0.034	0	5000	0	0	25.61	20	23.3		
17	0	0.034	0	5000	0	0	24.39	20	23.3		
18	0	0.034	0	5000	0	0	22.78	20	23.3		
19	0	0.034	0	5000	0	0	22.78	20	23.3		
20	0	0.034	0	5000	0	0	22.22	20	23.3		
21	0	0.034	0	5000	0	0	22.78	20	23.3		
22	0	0.034	0	5000	0	0	22.22	20	23.3		
23	0	0.034	0	5000	0	0	22.78	20	23.3		
24	0	0.034	0	5000	0	0	22.22	20	23.3		

320

25	0	0.034	0	5000	0	0	0	21.72	20	23.3
26	0	0.034	0	5000	0	0	0	22.22	20	23.3
27	0	0.034	0	5000	0	0	0	21.72	20	23.3
28	0	0.034	0	5000	0	0	0	21.72	20	23.3
29	0	0.034	0	5000	0	0	0	21.11	20	23.3
30	0	0.034	0	5000	0	0	0	21.11	20	23.3
31	0	0.034	0	5000	0	0	0	22.22	20	23.3
32	0	0.034	0	5000	0	0	0	23.89	20	23.3
33	0	0.034	0	5000	0	0	0	25	20	23.3
34	0	0.034	0	5000	0	0	0	26.11	20	23.3
35	0	0.034	0	5000	0	0	0	27.78	20	23.3
36	0	0.034	0	5000	0	0	0	29.39	20	23.3
37	0	0.034	0	5000	0	0	0	30.61	20	23.3
38	0	0.034	0	5000	0	0	0	31.11	20	23.3
39	0	0.034	0	5000	0	0	0	32.22	20	23.3
40	0	0.034	0	5000	0	0	0	31.72	20	23.3
41	0	0.034	0	5000	0	0	0	31.72	20	23.3
42	0	0.034	0	5000	0	0	0	32.22	20	23.3
43	0	0.034	0	5000	0	0	0	31.11	20	23.3
44	0	0.034	0	5000	0	0	0	23.28	20	23.3
45	0	0.034	0	5000	0	0	0	25.61	20	23.3
46	0	0.034	0	5000	0	0	0	23.89	20	23.3
47	0	0.034	0	5000	0	0	0	24.39	20	23.3
48	0	0.034	0	5000	0	0	0	23.28	20	23.3
49	0	0.034	0	5000	0	0	0	22.78	20	23.3
50	0	0.034	0	5000	0	0	0	22.78	20	23.3
51	0	0.034	0	5000	0	0	0	22.78	20	23.3
52	0	0.034	0	5000	0	0	0	21.11	20	23.3
53	0	0.034	0	5000	0	0	0	21.11	20	23.3
54	0	0.034	0	5000	0	0	0	20.61	20	23.3
55	0	0.034	0	5000	0	0	0	21.72	20	23.3
56	0	0.034	0	5000	0	0	0	24.39	20	23.3
57	0	0.034	0	5000	0	0	0	26.11	20	23.3
58	0	0.034	0	5000	0	0	0	28.89	20	23.3

59	0	0.034	0	5000	0	0	0	30.61	20	23.3
60	0	0.034	0	5000	0	0	0	32.22	20	23.3
61	0	0.034	0	5000	0	0	0	33.28	20	23.3
62	0	0.034	0	5000	0	0	0	33.89	20	23.3
63	0	0.034	0	5000	0	0	0	35.61	20	23.3
64	0	0.034	0	5000	0	0	0	36.11	20	23.3
65	0	0.034	0	5000	0	0	0	36.72	20	23.3
66	0	0.034	0	5000	0	0	0	36.11	20	23.3
67	0	0.034	0	5000	0	0	0	33.28	20	23.3
68	0	0.034	0	5000	0	0	0	31.72	20	23.3
69	0	0.034	0	5000	0	0	0	30.61	20	23.3
70	0	0.034	0	5000	0	0	0	28.28	20	23.3
71	0	0.034	0	5000	0	0	0	28.28	20	23.3
72	0	0.034	0	5000	0	0	0	26.11	20	23.3
73	0	0.034	0	5000	0	0	0	26.11	20	23.3
74	0	0.034	0	5000	0	0	0	25.61	20	23.3
75	0	0.034	0	5000	0	0	0	25	20	23.3
76	0	0.034	0	5000	0	0	0	23.28	20	23.3
77	0	0.034	0	5000	0	0	0	22.22	20	23.3
78	0	0.034	0	5000	0	0	0	20.61	20	23.3
79	0	0.034	0	5000	0	0	0	22.78	20	23.3
80	0	0.034	0	5000	0	0	0	26.72	20	23.3
81	0	0.034	0	5000	0	0	0	28.89	20	23.3
82	0	0.034	0	5000	0	0	0	32.22	20	23.3
83	0	0.034	0	5000	0	0	0	35	20	23.3
84	0	0.034	0	5000	0	0	0	35.61	20	23.3
85	0	0.034	0	5000	0	0	0	37.22	20	23.3
86	0	0.034	0	5000	0	0	0	37.22	20	23.3
87	0	0.034	0	5000	0	0	0	36.72	20	23.3
88	0	0.034	0	5000	0	0	0	37.22	20	23.3
89	0	0.034	0	5000	0	0	0	37.78	20	23.3
90	0	0.034	0	5000	0	0	0	37.22	20	23.3
91	0	0.034	0	5000	0	0	0	36.72	20	23.3
92	0	0.034	0	5000	0	0	0	35.61	20	23.3

93	0	0.034	0	5000	0	0	0	33.89	20	23.3
94	0	0.034	0	5000	0	0	0	32.22	20	23.3
95	0	0.034	0	5000	0	0	0	31.72	20	23.3
96	0	0.034	0	5000	0	0	0	31.72	20	23.3
97	0	0.034	0	5000	0	0	0	31.11	20	23.3
98	0	0.034	0	5000	0	0	0	28.89	20	23.3
99	0	0.034	0	5000	0	0	0	28.28	20	23.3
100	0	0.034	0	5000	0	0	0	27.22	20	23.3
101	0	0.034	0	5000	0	0	0	25.61	20	23.3
102	0	0.034	0	5000	0	0	0	23.89	20	23.3
103	0	0.034	0	5000	0	0	0	26.11	20	23.3
104	0	0.034	0	5000	0	0	0	28.28	20	23.3
105	0	0.034	0	5000	0	0	0	31.11	20	23.3
106	0	0.034	0	5000	0	0	0	33.89	20	23.3
107	0	0.034	0	5000	0	0	0	34.39	20	23.3
108	0	0.034	0	5000	0	0	0	35.61	20	23.3
109	0	0.034	0	5000	0	0	0	36.11	20	23.3
110	0	0.034	0	5000	0	0	0	35.61	20	23.3
111	0	0.034	0	5000	0	0	0	36.11	20	23.3
112	0	0.034	0	5000	0	0	0	36.72	20	23.3
113	0	0.034	0	5000	0	0	0	36.11	20	23.3
114	0	0.034	0	5000	0	0	0	35.61	20	23.3
115	0	0.034	0	5000	0	0	0	34.39	20	23.3
116	0	0.034	0	5000	0	0	0	32.78	20	23.3
117	0	0.034	0	5000	0	0	0	31.11	20	23.3
118	0	0.034	0	5000	0	0	0	30.61	20	23.3
119	0	0.034	0	5000	0	0	0	30	20	23.3
120	0	0.034	0	5000	0	0	0	28.89	20	23.3
121	0	0.034	0	5000	0	0	0	27.78	20	23.3
122	0	0.034	0	5000	0	0	0	25.61	20	23.3
123	0	0.034	0	5000	0	0	0	23.28	20	23.3
124	0	0.034	0	5000	0	0	0	23.89	20	23.3
125	0	0.034	0	5000	0	0	0	23.28	20	23.3
126	0	0.034	0	5000	0	0	0	22.78	20	23.3

127	0	0.034	0	5000	0	0	0	22.78	20	23.3
128	0	0.034	0	5000	0	0	0	24.39	20	23.3
129	0	0.034	0	5000	0	0	0	27.22	20	23.3
130	0	0.034	0	5000	0	0	0	29.39	20	23.3
131	0	0.034	0	5000	0	0	0	31.11	20	23.3
132	0	0.034	0	5000	0	0	0	32.22	20	23.3
133	0	0.034	0	5000	0	0	0	33.28	20	23.3
134	0	0.034	0	5000	0	0	0	33.89	20	23.3
135	0	0.034	0	5000	0	0	0	33.89	20	23.3
136	0	0.034	0	5000	0	0	0	33.89	20	23.3
137	0	0.034	0	5000	0	0	0	33.89	20	23.3
138	0	0.034	0	5000	0	0	0	33.89	20	23.3
139	0	0.034	0	5000	0	0	0	32.78	20	23.3
140	0	0.034	0	5000	0	0	0	30.61	20	23.3
141	0	0.034	0	5000	0	0	0	28.89	20	23.3
142	0	0.034	0	5000	0	0	0	25.61	20	23.3
143	0	0.034	0	5000	0	0	0	22.78	20	23.3
144	0	0.034	0	5000	0	0	0	22.78	20	23.3
145	0	0.034	0	5000	0	0	0	22.78	20	23.3
146	0	0.034	0	5000	0	0	0	21.11	20	23.3
147	0	0.034	0	5000	0	0	0	20.61	20	23.3
148	0	0.034	0	5000	0	0	0	18.28	20	23.3
149	0	0.034	0	5000	0	0	0	16.72	20	23.3
150	0	0.034	0	5000	0	0	0	16.72	20	23.3
151	0	0.034	0	5000	0	0	0	17.78	20	23.3
152	0	0.034	0	5000	0	0	0	21.72	20	23.3
153	0	0.034	0	5000	0	0	0	24.39	20	23.3
154	0	0.034	0	5000	0	0	0	26.11	20	23.3
155	0	0.034	0	5000	0	0	0	28.28	20	23.3
156	0	0.034	0	5000	0	0	0	28.89	20	23.3
157	0	0.034	0	5000	0	0	0	31.11	20	23.3
158	0	0.034	0	5000	0	0	0	32.78	20	23.3
159	0	0.034	0	5000	0	0	0	33.89	20	23.3
160	0	0.034	0	5000	0	0	0	33.89	20	23.3

161	0	0.034	0	5000	0	0	0	33.89	20	23.3
162	0	0.034	0	5000	0	0	0	33.89	20	23.3
163	0	0.034	0	5000	0	0	0	32.78	20	23.3
164	0	0.034	0	5000	0	0	0	30.61	20	23.3
165	0	0.034	0	5000	0	0	0	29.39	20	23.3
166	0	0.034	0	5000	0	0	0	26.72	20	23.3
167	0	0.034	0	5000	0	0	0	26.72	20	23.3
168	0	0.034	0	5000	0	0	0	23.28	20	23.3
169	0	0.034	0	5000	0	0	0	23.89	20	23.3
170	0	0.034	0	5000	0	0	0	19.39	20	23.3
171	0	0.034	0	5000	0	0	0	17.78	20	23.3
172	0	0.034	0	5000	0	0	0	19.39	20	23.3
173	0	0.034	0	5000	0	0	0	17.22	20	23.3
174	0	0.034	0	5000	0	0	0	15.61	20	23.3
175	0	0.034	0	5000	0	0	0	17.78	20	23.3
176	0	0.034	0	5000	0	0	0	22.22	20	23.3
177	0	0.034	0	5000	0	0	0	25	20	23.3
178	0	0.034	0	5000	0	0	0	28.28	20	23.3
179	0	0.034	0	5000	0	0	0	31.72	20	23.3
180	0	0.034	0	5000	0	0	0	32.22	20	23.3
181	0	0.034	0	5000	0	0	0	33.28	20	23.3
182	0	0.034	0	5000	0	0	0	33.89	20	23.3
183	0	0.034	0	5000	0	0	0	34.39	20	23.3
184	0	0.034	0	5000	0	0	0	35	20	23.3
185	0	0.034	0	5000	0	0	0	35.61	20	23.3
186	0	0.034	0	5000	0	0	0	35	20	23.3
187	0	0.034	0	5000	0	0	0	33.89	20	23.3
188	0	0.034	0	5000	0	0	0	31.72	20	23.3
189	0	0.034	0	5000	0	0	0	30.61	20	23.3
190	0	0.034	0	5000	0	0	0	28.89	20	23.3
191	0	0.034	0	5000	0	0	0	25.61	20	23.3
192	0	0.034	0	5000	0	0	0	27.22	20	23.3
193	0	0.034	0	5000	0	0	0	22.22	20	23.3
194	0	0.034	0	5000	0	0	0	19.39	20	23.3

195	0	0.034	0	5000	0	0	0	20.61	20	23.3
196	0	0.034	0	5000	0	0	0	20	20	23.3
197	0	0.034	0	5000	0	0	0	18.89	20	23.3
198	0	0.034	0	5000	0	0	0	16.72	20	23.3
199	0	0.034	0	5000	0	0	0	19.39	20	23.3
200	0	0.034	0	5000	0	0	0	23.89	20	23.3
201	0	0.034	0	5000	0	0	0	26.72	20	23.3
202	0	0.034	0	5000	0	0	0	29.39	20	23.3
203	0	0.034	0	5000	0	0	0	32.22	20	23.3
204	0	0.034	0	5000	0	0	0	32.78	20	23.3
205	0	0.034	0	5000	0	0	0	33.28	20	23.3
206	0	0.034	0	5000	0	0	0	35	20	23.3
207	0	0.034	0	5000	0	0	0	36.72	20	23.3
208	0	0.034	0	5000	0	0	0	36.11	20	23.3
209	0	0.034	0	5000	0	0	0	36.11	20	23.3
210	0	0.034	0	5000	0	0	0	35.61	20	23.3
211	0	0.034	0	5000	0	0	0	33.89	20	23.3
212	0	0.034	0	5000	0	0	0	32.22	20	23.3
213	0	0.034	0	5000	0	0	0	30.61	20	23.3
214	0	0.034	0	5000	0	0	0	28.28	20	23.3
215	0	0.034	0	5000	0	0	0	24.39	20	23.3
216	0	0.034	0	5000	0	0	0	26.72	20	23.3
217	0	0.034	0	5000	0	0	0	24.39	20	23.3
218	0	0.034	0	5000	0	0	0	23.89	20	23.3
219	0	0.034	0	5000	0	0	0	21.11	20	23.3
220	0	0.034	0	5000	0	0	0	21.72	20	23.3
221	0	0.034	0	5000	0	0	0	20	20	23.3
222	0	0.034	0	5000	0	0	0	17.78	20	23.3
223	0	0.034	0	5000	0	0	0	19.39	20	23.3
224	0	0.034	0	5000	0	0	0	22.78	20	23.3
225	0	0.034	0	5000	0	0	0	26.11	20	23.3
226	0	0.034	0	5000	0	0	0	29.39	20	23.3
227	0	0.034	0	5000	0	0	0	32.22	20	23.3
228	0	0.034	0	5000	0	0	0	32.78	20	23.3

229	0	0.034	0	5000	0	0	0	33.89	20	23.3
230	0	0.034	0	5000	0	0	0	35	20	23.3
231	0	0.034	0	5000	0	0	0	35.61	20	23.3
232	0	0.034	0	5000	0	0	0	36.72	20	23.3
233	0	0.034	0	5000	0	0	0	37.22	20	23.3
234	0	0.034	0	5000	0	0	0	36.11	20	23.3
235	0	0.034	0	5000	0	0	0	35	20	23.3
236	0	0.034	0	5000	0	0	0	32.78	20	23.3
237	0	0.034	0	5000	0	0	0	30.61	20	23.3
238	0	0.034	0	5000	0	0	0	30	20	23.3
239	0	0.034	0	5000	0	0	0	27.22	20	23.3
240	0	0.034	0	5000	0	0	0	25	20	23.3
241	0	0.034	0	5000	0	0	0	25	20	23.3
242	0	0.034	0	5000	0	0	0	23.89	20	23.3
243	0	0.034	0	5000	0	0	0	22.22	20	23.3
244	0	0.034	0	5000	0	0	0	20	20	23.3
245	0	0.034	0	5000	0	0	0	20	20	23.3
246	0	0.034	0	5000	0	0	0	18.28	20	23.3
247	0	0.034	0	5000	0	0	0	20.61	20	23.3
248	0	0.034	0	5000	0	0	0	23.89	20	23.3
249	0	0.034	0	5000	0	0	0	27.22	20	23.3
250	0	0.034	0	5000	0	0	0	32.78	20	23.3
251	0	0.034	0	5000	0	0	0	33.28	20	23.3
252	0	0.034	0	5000	0	0	0	35.61	20	23.3
253	0	0.034	0	5000	0	0	0	35.61	20	23.3
254	0	0.034	0	5000	0	0	0	36.11	20	23.3
255	0	0.034	0	5000	0	0	0	36.72	20	23.3
256	0	0.034	0	5000	0	0	0	37.78	20	23.3
257	0	0.034	0	5000	0	0	0	37.78	20	23.3
258	0	0.034	0	5000	0	0	0	36.72	20	23.3
259	0	0.034	0	5000	0	0	0	35.61	20	23.3
260	0	0.034	0	5000	0	0	0	33.89	20	23.3
261	0	0.034	0	5000	0	0	0	32.78	20	23.3
262	0	0.034	0	5000	0	0	0	30	20	23.3

263	0	0.034	0	5000	0	0	0	29.39	20	23.3
264	0	0.034	0	5000	0	0	0	28.28	20	23.3
265	0	0.034	0	5000	0	0	0	27.78	20	23.3
266	0	0.034	0	5000	0	0	0	26.72	20	23.3
267	0	0.034	0	5000	0	0	0	24.39	20	23.3
268	0	0.034	0	5000	0	0	0	23.89	20	23.3
269	0	0.034	0	5000	0	0	0	22.22	20	23.3
270	0	0.034	0	5000	0	0	0	22.78	20	23.3
271	0	0.034	0	5000	0	0	0	24.39	20	23.3
272	0	0.034	0	5000	0	0	0	27.22	20	23.3
273	0	0.034	0	5000	0	0	0	30	20	23.3
274	0	0.034	0	5000	0	0	0	32.78	20	23.3
275	0	0.034	0	5000	0	0	0	33.89	20	23.3
276	0	0.034	0	5000	0	0	0	34.39	20	23.3
277	0	0.034	0	5000	0	0	0	35.61	20	23.3
278	0	0.034	0	5000	0	0	0	36.72	20	23.3
279	0	0.034	0	5000	0	0	0	37.22	20	23.3
280	0	0.034	0	5000	0	0	0	37.78	20	23.3
281	0	0.034	0	5000	0	0	0	37.78	20	23.3
282	0	0.034	0	5000	0	0	0	37.78	20	23.3
283	0	0.034	0	5000	0	0	0	36.72	20	23.3
284	0	0.034	0	5000	0	0	0	35	20	23.3
285	0	0.034	0	5000	0	0	0	33.89	20	23.3
286	0	0.034	0	5000	0	0	0	32.78	20	23.3
287	0	0.034	0	5000	0	0	0	31.11	20	23.3
288	0	0.034	0	5000	0	0	0	31.72	20	23.3
289	0	0.034	0	5000	0	0	0	27.78	20	23.3
290	0	0.034	0	5000	0	0	0	25	20	23.3
291	0	0.034	0	5000	0	0	0	25.61	20	23.3
292	0	0.034	0	5000	0	0	0	25.61	20	23.3
293	0	0.034	0	5000	0	0	0	23.89	20	23.3
294	0	0.034	0	5000	0	0	0	23.89	20	23.3
295	0	0.034	0	5000	0	0	0	23.89	20	23.3
296	0	0.034	0	5000	0	0	0	27.22	20	23.3

297	0	0.034	0	5000	0	0	0	30.61	20	23.3
298	0	0.034	0	5000	0	0	0	33.28	20	23.3
299	0	0.034	0	5000	0	0	0	35	20	23.3
300	0	0.034	0	5000	0	0	0	37.22	20	23.3
301	0	0.034	0	5000	0	0	0	38.28	20	23.3
302	0	0.034	0	5000	0	0	0	38.28	20	23.3
303	0	0.034	0	5000	0	0	0	38.28	20	23.3
304	0	0.034	0	5000	0	0	0	38.89	20	23.3
305	0	0.034	0	5000	0	0	0	38.89	20	23.3
306	0	0.034	0	5000	0	0	0	38.28	20	23.3
307	0	0.034	0	5000	0	0	0	37.22	20	23.3
308	0	0.034	0	5000	0	0	0	35	20	23.3
309	0	0.034	0	5000	0	0	0	34.39	20	23.3
310	0	0.034	0	5000	0	0	0	30.61	20	23.3
311	0	0.034	0	5000	0	0	0	30.61	20	23.3
312	0	0.034	0	5000	0	0	0	28.89	20	23.3
313	0	0.034	0	5000	0	0	0	26.72	20	23.3
314	0	0.034	0	5000	0	0	0	24.39	20	23.3
315	0	0.034	0	5000	0	0	0	25.61	20	23.3
316	0	0.034	0	5000	0	0	0	23.28	20	23.3
317	0	0.034	0	5000	0	0	0	21.72	20	23.3
318	0	0.034	0	5000	0	0	0	22.22	20	23.3
319	0	0.034	0	5000	0	0	0	23.28	20	23.3
320	0	0.034	0	5000	0	0	0	25.61	20	23.3
321	0	0.034	0	5000	0	0	0	32.22	20	23.3
322	0	0.034	0	5000	0	0	0	33.89	20	23.3
323	0	0.034	0	5000	0	0	0	36.11	20	23.3
324	0	0.034	0	5000	0	0	0	36.11	20	23.3
325	0	0.034	0	5000	0	0	0	36.72	20	23.3
326	0	0.034	0	5000	0	0	0	37.22	20	23.3
327	0	0.034	0	5000	0	0	0	37.78	20	23.3
328	0	0.034	0	5000	0	0	0	36.72	20	23.3
329	0	0.034	0	5000	0	0	0	37.22	20	23.3
330	0	0.034	0	5000	0	0	0	36.72	20	23.3

331	0	0.034	0	5000	0	0	0	35.61	20	23.3
332	0	0.034	0	5000	0	0	0	33.89	20	23.3
333	0	0.034	0	5000	0	0	0	32.22	20	23.3
334	0	0.034	0	5000	0	0	0	30.61	20	23.3
335	0	0.034	0	5000	0	0	0	28.89	20	23.3
336	0	0.034	0	5000	0	0	0	26.72	20	23.3
337	0	0.034	0	5000	0	0	0	25.61	20	23.3
338	0	0.034	0	5000	0	0	0	25	20	23.3
339	0	0.034	0	5000	0	0	0	24.39	20	23.3
340	0	0.034	0	5000	0	0	0	23.28	20	23.3
341	0	0.034	0	5000	0	0	0	23.28	20	23.3
342	0	0.034	0	5000	0	0	0	22.78	20	23.3
343	0	0.034	0	5000	0	0	0	22.22	20	23.3
344	0	0.034	0	5000	0	0	0	26.72	20	23.3
345	0	0.034	0	5000	0	0	0	28.89	20	23.3
346	0	0.034	0	5000	0	0	0	32.78	20	23.3
347	0	0.034	0	5000	0	0	0	34.39	20	23.3
348	0	0.034	0	5000	0	0	0	36.72	20	23.3
349	0	0.034	0	5000	0	0	0	36.72	20	23.3
350	0	0.034	0	5000	0	0	0	37.78	20	23.3
351	0	0.034	0	5000	0	0	0	36.72	20	23.3
352	0	0.034	0	5000	0	0	0	37.78	20	23.3
353	0	0.034	0	5000	0	0	0	37.78	20	23.3
354	0	0.034	0	5000	0	0	0	37.78	20	23.3
355	0	0.034	0	5000	0	0	0	36.72	20	23.3
356	0	0.034	0	5000	0	0	0	35	20	23.3
357	0	0.034	0	5000	0	0	0	33.28	20	23.3
358	0	0.034	0	5000	0	0	0	31.11	20	23.3
359	0	0.034	0	5000	0	0	0	30.61	20	23.3
360	0	0.034	0	5000	0	0	0	27.78	20	23.3
361	0	0.034	0	5000	0	0	0	27.78	20	23.3
362	0	0.034	0	5000	0	0	0	25.61	20	23.3
363	0	0.034	0	5000	0	0	0	23.28	20	23.3
364	0	0.034	0	5000	0	0	0	23.89	20	23.3

365	0	0.034	0	5000	0	0	0	24.39	20	23.3
366	0	0.034	0	5000	0	0	0	23.89	20	23.3
367	0	0.034	0	5000	0	0	0	23.89	20	23.3
368	0	0.034	0	5000	0	0	0	27.78	20	23.3
369	0	0.034	0	5000	0	0	0	31.11	20	23.3
370	0	0.034	0	5000	0	0	0	32.78	20	23.3
371	0	0.034	0	5000	0	0	0	36.11	20	23.3
372	0	0.034	0	5000	0	0	0	37.22	20	23.3
373	0	0.034	0	5000	0	0	0	36.11	20	23.3
374	0	0.034	0	5000	0	0	0	38.28	20	23.3
375	0	0.034	0	5000	0	0	0	37.78	20	23.3
376	0	0.034	0	5000	0	0	0	38.89	20	23.3
377	0	0.034	0	5000	0	0	0	38.28	20	23.3
378	0	0.034	0	5000	0	0	0	36.11	20	23.3
379	0	0.034	0	5000	0	0	0	36.72	20	23.3
380	0	0.034	0	5000	0	0	0	35	20	23.3
381	0	0.034	0	5000	0	0	0	33.89	20	23.3
382	0	0.034	0	5000	0	0	0	31.72	20	23.3
383	0	0.034	0	5000	0	0	0	30	20	23.3
384	0	0.034	0	5000	0	0	0	28.89	20	23.3
385	0	0.034	0	5000	0	0	0	29.39	20	23.3
386	0	0.034	0	5000	0	0	0	27.22	20	23.3
387	0	0.034	0	5000	0	0	0	26.11	20	23.3
388	0	0.034	0	5000	0	0	0	25	20	23.3
389	0	0.034	0	5000	0	0	0	25	20	23.3
390	0	0.034	0	5000	0	0	0	25	20	23.3
391	0	0.034	0	5000	0	0	0	24.39	20	23.3
392	0	0.034	0	5000	0	0	0	27.78	20	23.3
393	0	0.034	0	5000	0	0	0	32.78	20	23.3
394	0	0.034	0	5000	0	0	0	33.89	20	23.3
395	0	0.034	0	5000	0	0	0	35.61	20	23.3
396	0	0.034	0	5000	0	0	0	36.11	20	23.3
397	0	0.034	0	5000	0	0	0	35.61	20	23.3
398	0	0.034	0	5000	0	0	0	37.78	20	23.3

399	0	0.034	0	5000	0	0	0	38.28	20	23.3
400	0	0.034	0	5000	0	0	0	37.22	20	23.3
401	0	0.034	0	5000	0	0	0	36.72	20	23.3
402	0	0.034	0	5000	0	0	0	36.11	20	23.3
403	0	0.034	0	5000	0	0	0	32.78	20	23.3
404	0	0.034	0	5000	0	0	0	30	20	23.3
405	0	0.034	0	5000	0	0	0	28.28	20	23.3
406	0	0.034	0	5000	0	0	0	28.28	20	23.3
407	0	0.034	0	5000	0	0	0	29.39	20	23.3
408	0	0.034	0	5000	0	0	0	28.89	20	23.3
409	0	0.034	0	5000	0	0	0	28.89	20	23.3
410	0	0.034	0	5000	0	0	0	27.78	20	23.3
411	0	0.034	0	5000	0	0	0	28.28	20	23.3
412	0	0.034	0	5000	0	0	0	26.72	20	23.3
413	0	0.034	0	5000	0	0	0	26.72	20	23.3
414	0	0.034	0	5000	0	0	0	26.11	20	23.3
415	0	0.034	0	5000	0	0	0	26.11	20	23.3
416	0	0.034	0	5000	0	0	0	28.28	20	23.3
417	0	0.034	0	5000	0	0	0	31.11	20	23.3
418	0	0.034	0	5000	0	0	0	32.78	20	23.3
419	0	0.034	0	5000	0	0	0	33.89	20	23.3
420	0	0.034	0	5000	0	0	0	35.61	20	23.3
421	0	0.034	0	5000	0	0	0	35.61	20	23.3
422	0	0.034	0	5000	0	0	0	36.72	20	23.3
423	0	0.034	0	5000	0	0	0	37.78	20	23.3
424	0	0.034	0	5000	0	0	0	37.78	20	23.3
425	0	0.034	0	5000	0	0	0	37.78	20	23.3
426	0	0.034	0	5000	0	0	0	36.72	20	23.3
427	0	0.034	0	5000	0	0	0	35	20	23.3
428	0	0.034	0	5000	0	0	0	33.89	20	23.3
429	0	0.034	0	5000	0	0	0	33.28	20	23.3
430	0	0.034	0	5000	0	0	0	32.78	20	23.3
431	0	0.034	0	5000	0	0	0	30	20	23.3
432	0	0.034	0	5000	0	0	0	31.11	20	23.3

433	0	0.034	0	5000	0	0	0	30	20	23.3
434	0	0.034	0	5000	0	0	0	28.28	20	23.3
435	0	0.034	0	5000	0	0	0	30	20	23.3
436	0	0.034	0	5000	0	0	0	27.78	20	23.3
437	0	0.034	0	5000	0	0	0	27.78	20	23.3
438	0	0.034	0	5000	0	0	0	29.39	20	23.3
439	0	0.034	0	5000	0	0	0	26.72	20	23.3
440	0	0.034	0	5000	0	0	0	29.39	20	23.3
441	0	0.034	0	5000	0	0	0	31.11	20	23.3
442	0	0.034	0	5000	0	0	0	33.89	20	23.3
443	0	0.034	0	5000	0	0	0	35	20	23.3
444	0	0.034	0	5000	0	0	0	36.11	20	23.3
445	0	0.034	0	5000	0	0	0	36.72	20	23.3
446	0	0.034	0	5000	0	0	0	37.78	20	23.3
447	0	0.034	0	5000	0	0	0	37.22	20	23.3
448	0	0.034	0	5000	0	0	0	37.22	20	23.3
449	0	0.034	0	5000	0	0	0	37.22	20	23.3
450	0	0.034	0	5000	0	0	0	36.11	20	23.3
451	0	0.034	0	5000	0	0	0	35	20	23.3
452	0	0.034	0	5000	0	0	0	33.28	20	23.3
453	0	0.034	0	5000	0	0	0	32.78	20	23.3
454	0	0.034	0	5000	0	0	0	29.39	20	23.3
455	0	0.034	0	5000	0	0	0	28.89	20	23.3
456	0	0.034	0	5000	0	0	0	27.22	20	23.3
457	0	0.034	0	5000	0	0	0	23.89	20	23.3
458	0	0.034	0	5000	0	0	0	25	20	23.3
459	0	0.034	0	5000	0	0	0	21.72	20	23.3
460	0	0.034	0	5000	0	0	0	21.11	20	23.3
461	0	0.034	0	5000	0	0	0	18.89	20	23.3
462	0	0.034	0	5000	0	0	0	19.39	20	23.3
463	0	0.034	0	5000	0	0	0	20	20	23.3
464	0	0.034	0	5000	0	0	0	23.89	20	23.3
465	0	0.034	0	5000	0	0	0	28.28	20	23.3
466	0	0.034	0	5000	0	0	0	29.39	20	23.3

467	0	0.034	0	5000	0	0	0	31.11	20	23.3
468	0	0.034	0	5000	0	0	0	32.78	20	23.3
469	0	0.034	0	5000	0	0	0	33.28	20	23.3
470	0	0.034	0	5000	0	0	0	35	20	23.3
471	0	0.034	0	5000	0	0	0	36.11	20	23.3
472	0	0.034	0	5000	0	0	0	36.72	20	23.3
473	0	0.034	0	5000	0	0	0	36.72	20	23.3
474	0	0.034	0	5000	0	0	0	36.72	20	23.3
475	0	0.034	0	5000	0	0	0	35.61	20	23.3
476	0	0.034	0	5000	0	0	0	31.72	20	23.3
477	0	0.034	0	5000	0	0	0	30.61	20	23.3
478	0	0.034	0	5000	0	0	0	26.11	20	23.3
479	0	0.034	0	5000	0	0	0	25.61	20	23.3
480	0	0.034	0	5000	0	0	0	21.11	20	23.3
481	0	0.034	0	5000	0	0	0	21.72	20	23.3
482	0	0.034	0	5000	0	0	0	20	20	23.3
483	0	0.034	0	5000	0	0	0	17.22	20	23.3
484	0	0.034	0	5000	0	0	0	17.78	20	23.3
485	0	0.034	0	5000	0	0	0	17.22	20	23.3
486	0	0.034	0	5000	0	0	0	17.22	20	23.3
487	0	0.034	0	5000	0	0	0	18.28	20	23.3
488	0	0.034	0	5000	0	0	0	22.78	20	23.3
489	0	0.034	0	5000	0	0	0	26.11	20	23.3
490	0	0.034	0	5000	0	0	0	30.61	20	23.3
491	0	0.034	0	5000	0	0	0	33.28	20	23.3
492	0	0.034	0	5000	0	0	0	34.39	20	23.3
493	0	0.034	0	5000	0	0	0	35.61	20	23.3
494	0	0.034	0	5000	0	0	0	37.78	20	23.3
495	0	0.034	0	5000	0	0	0	38.28	20	23.3
496	0	0.034	0	5000	0	0	0	38.28	20	23.3
497	0	0.034	0	5000	0	0	0	38.89	20	23.3
498	0	0.034	0	5000	0	0	0	37.78	20	23.3
499	0	0.034	0	5000	0	0	0	36.72	20	23.3
500	0	0.034	0	5000	0	0	0	34.39	20	23.3

501	0	0.034	0	5000	0	0	0	31.11	20	23.3
502	0	0.034	0	5000	0	0	0	29.39	20	23.3
503	0	0.034	0	5000	0	0	0	26.72	20	23.3
504	0	0.034	0	5000	0	0	0	25	20	23.3
505	0	0.034	0	5000	0	0	0	22.78	20	23.3
506	0	0.034	0	5000	0	0	0	22.22	20	23.3
507	0	0.034	0	5000	0	0	0	21.72	20	23.3
508	0	0.034	0	5000	0	0	0	19.39	20	23.3
509	0	0.034	0	5000	0	0	0	18.89	20	23.3
510	0	0.034	0	5000	0	0	0	18.89	20	23.3
511	0	0.034	0	5000	0	0	0	18.89	20	23.3
512	0	0.034	0	5000	0	0	0	25	20	23.3
513	0	0.034	0	5000	0	0	0	27.22	20	23.3
514	0	0.034	0	5000	0	0	0	31.11	20	23.3
515	0	0.034	0	5000	0	0	0	33.89	20	23.3
516	0	0.034	0	5000	0	0	0	35	20	23.3
517	0	0.034	0	5000	0	0	0	36.72	20	23.3
518	0	0.034	0	5000	0	0	0	38.28	20	23.3
519	0	0.034	0	5000	0	0	0	37.78	20	23.3
520	0	0.034	0	5000	0	0	0	38.28	20	23.3
521	0	0.034	0	5000	0	0	0	38.89	20	23.3
522	0	0.034	0	5000	0	0	0	37.78	20	23.3
523	0	0.034	0	5000	0	0	0	36.72	20	23.3
524	0	0.034	0	5000	0	0	0	35	20	23.3
525	0	0.034	0	5000	0	0	0	31.11	20	23.3
526	0	0.034	0	5000	0	0	0	30	20	23.3
527	0	0.034	0	5000	0	0	0	30	20	23.3
528	0	0.034	0	5000	0	0	0	25	20	23.3
529	0	0.034	0	5000	0	0	0	25	20	23.3
530	0	0.034	0	5000	0	0	0	23.89	20	23.3
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532	0	0.034	0	5000	0	0	0	20.61	20	23.3
533	0	0.034	0	5000	0	0	0	21.11	20	23.3
534	0	0.034	0	5000	0	0	0	21.72	20	23.3

535	0	0.034	0	5000	0	0	0	21.11	20	23.3
536	0	0.034	0	5000	0	0	0	26.11	20	23.3
537	0	0.034	0	5000	0	0	0	27.78	20	23.3
538	0	0.034	0	5000	0	0	0	30	20	23.3
539	0	0.034	0	5000	0	0	0	31.72	20	23.3
540	0	0.034	0	5000	0	0	0	33.28	20	23.3
541	0	0.034	0	5000	0	0	0	34.39	20	23.3
542	0	0.034	0	5000	0	0	0	36.11	20	23.3
543	0	0.034	0	5000	0	0	0	36.11	20	23.3
544	0	0.034	0	5000	0	0	0	36.72	20	23.3
545	0	0.034	0	5000	0	0	0	37.22	20	23.3
546	0	0.034	0	5000	0	0	0	37.22	20	23.3
547	0	0.034	0	5000	0	0	0	36.11	20	23.3
548	0	0.034	0	5000	0	0	0	33.89	20	23.3
549	0	0.034	0	5000	0	0	0	33.28	20	23.3
550	0	0.034	0	5000	0	0	0	30	20	23.3
551	0	0.034	0	5000	0	0	0	28.28	20	23.3
552	0	0.034	0	5000	0	0	0	24.39	20	23.3
553	0	0.034	0	5000	0	0	0	24.39	20	23.3
554	0	0.034	0	5000	0	0	0	25	20	23.3
555	0	0.034	0	5000	0	0	0	22.22	20	23.3
556	0	0.034	0	5000	0	0	0	21.72	20	23.3
557	0	0.034	0	5000	0	0	0	20	20	23.3
558	0	0.034	0	5000	0	0	0	18.89	20	23.3
559	0	0.034	0	5000	0	0	0	20	20	23.3
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561	0	0.034	0	5000	0	0	0	28.89	20	23.3
562	0	0.034	0	5000	0	0	0	31.72	20	23.3
563	0	0.034	0	5000	0	0	0	33.89	20	23.3
564	0	0.034	0	5000	0	0	0	35.61	20	23.3
565	0	0.034	0	5000	0	0	0	37.22	20	23.3
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567	0	0.034	0	5000	0	0	0	37.22	20	23.3
568	0	0.034	0	5000	0	0	0	38.28	20	23.3

569	0	0.034	0	5000	0	0	0	38.28	20	23.3
570	0	0.034	0	5000	0	0	0	37.78	20	23.3
571	0	0.034	0	5000	0	0	0	36.72	20	23.3
572	0	0.034	0	5000	0	0	0	33.28	20	23.3
573	0	0.034	0	5000	0	0	0	32.22	20	23.3
574	0	0.034	0	5000	0	0	0	30	20	23.3
575	0	0.034	0	5000	0	0	0	27.78	20	23.3
576	0	0.034	0	5000	0	0	0	27.22	20	23.3
577	0	0.034	0	5000	0	0	0	25.61	20	23.3
578	0	0.034	0	5000	0	0	0	27.22	20	23.3
579	0	0.034	0	5000	0	0	0	23.89	20	23.3
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581	0	0.034	0	5000	0	0	0	22.22	20	23.3
582	0	0.034	0	5000	0	0	0	21.11	20	23.3
583	0	0.034	0	5000	0	0	0	23.28	20	23.3
584	0	0.034	0	5000	0	0	0	26.11	20	23.3
585	0	0.034	0	5000	0	0	0	29.39	20	23.3
586	0	0.034	0	5000	0	0	0	33.89	20	23.3
587	0	0.034	0	5000	0	0	0	35	20	23.3
588	0	0.034	0	5000	0	0	0	36.11	20	23.3
589	0	0.034	0	5000	0	0	0	36.72	20	23.3
590	0	0.034	0	5000	0	0	0	37.78	20	23.3
591	0	0.034	0	5000	0	0	0	35.61	20	23.3
592	0	0.034	0	5000	0	0	0	34.39	20	23.3
593	0	0.034	0	5000	0	0	0	30	20	23.3
594	0	0.034	0	5000	0	0	0	32.22	20	23.3
595	0	0.034	0	5000	0	0	0	31.72	20	23.3
596	0	0.034	0	5000	0	0	0	30	20	23.3
597	0	0.034	0	5000	0	0	0	28.89	20	23.3
598	0	0.034	0	5000	0	0	0	28.89	20	23.3
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600	0	0.034	0	5000	0	0	0	26.11	20	23.3
601	0	0.034	0	5000	0	0	0	26.11	20	23.3
602	0	0.034	0	5000	0	0	0	23.28	20	23.3

603	0	0.034	0	5000	0	0	0	23.89	20	23.3
604	0	0.034	0	5000	0	0	0	21.72	20	23.3
605	0	0.034	0	5000	0	0	0	21.72	20	23.3
606	0	0.034	0	5000	0	0	0	21.11	20	23.3
607	0	0.034	0	5000	0	0	0	22.22	20	23.3
608	0	0.034	0	5000	0	0	0	23.89	20	23.3
609	0	0.034	0	5000	0	0	0	28.28	20	23.3
610	0	0.034	0	5000	0	0	0	30.61	20	23.3
611	0	0.034	0	5000	0	0	0	31.11	20	23.3
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616	0	0.034	0	5000	0	0	0	28.89	20	23.3
617	0	0.034	0	5000	0	0	0	29.39	20	23.3
618	0	0.034	0	5000	0	0	0	28.89	20	23.3
619	0	0.034	0	5000	0	0	0	28.89	20	23.3
620	0	0.034	0	5000	0	0	0	27.78	20	23.3
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623	0	0.034	0	5000	0	0	0	25.61	20	23.3
624	0	0.034	0	5000	0	0	0	25	20	23.3
625	0	0.034	0	5000	0	0	0	24.39	20	23.3
626	0	0.034	0	5000	0	0	0	22.78	20	23.3
627	0	0.034	0	5000	0	0	0	23.28	20	23.3
628	0	0.034	0	5000	0	0	0	23.28	20	23.3
629	0	0.034	0	5000	0	0	0	23.89	20	23.3
630	0	0.034	0	5000	0	0	0	22.78	20	23.3
631	0	0.034	0	5000	0	0	0	21.72	20	23.3
632	0	0.034	0	5000	0	0	0	23.28	20	23.3
633	0	0.034	0	5000	0	0	0	23.89	20	23.3
634	0	0.034	0	5000	0	0	0	25.61	20	23.3
635	0	0.034	0	5000	0	0	0	27.78	20	23.3
636	0	0.034	0	5000	0	0	0	28.28	20	23.3

637	0	0.034	0	5000	0	0	0	30.61	20	23.3
638	0	0.034	0	5000	0	0	0	31.11	20	23.3
639	0	0.034	0	5000	0	0	0	31.72	20	23.3
640	0	0.034	0	5000	0	0	0	32.22	20	23.3
641	0	0.034	0	5000	0	0	0	31.72	20	23.3
642	0	0.034	0	5000	0	0	0	31.72	20	23.3
643	0	0.034	0	5000	0	0	0	31.11	20	23.3
644	0	0.034	0	5000	0	0	0	29.39	20	23.3
645	0	0.034	0	5000	0	0	0	28.28	20	23.3
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648	0	0.034	0	5000	0	0	0	26.11	20	23.3
649	0	0.034	0	5000	0	0	0	25.61	20	23.3
650	0	0.034	0	5000	0	0	0	22.22	20	23.3
651	0	0.034	0	5000	0	0	0	23.28	20	23.3
652	0	0.034	0	5000	0	0	0	21.72	20	23.3
653	0	0.034	0	5000	0	0	0	21.11	20	23.3
654	0	0.034	0	5000	0	0	0	21.72	20	23.3
655	0	0.034	0	5000	0	0	0	21.72	20	23.3
656	0	0.034	0	5000	0	0	0	25	20	23.3
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660	0	0.034	0	5000	0	0	0	32.22	20	23.3
661	0	0.034	0	5000	0	0	0	32.78	20	23.3
662	0	0.034	0	5000	0	0	0	33.89	20	23.3
663	0	0.034	0	5000	0	0	0	35	20	23.3
664	0	0.034	0	5000	0	0	0	36.11	20	23.3
665	0	0.034	0	5000	0	0	0	35.61	20	23.3
666	0	0.034	0	5000	0	0	0	35	20	23.3
667	0	0.034	0	5000	0	0	0	34.39	20	23.3
668	0	0.034	0	5000	0	0	0	33.28	20	23.3
669	0	0.034	0	5000	0	0	0	32.22	20	23.3
670	0	0.034	0	5000	0	0	0	31.11	20	23.3

671	0	0.034	0	5000	0	0	0	27.78	20	23.3
672	0	0.034	0	5000	0	0	0	28.89	20	23.3
673	0	0.034	0	5000	0	0	0	29.39	20	23.3
674	0	0.034	0	5000	0	0	0	27.78	20	23.3
675	0	0.034	0	5000	0	0	0	24.39	20	23.3
676	0	0.034	0	5000	0	0	0	23.89	20	23.3
677	0	0.034	0	5000	0	0	0	22.78	20	23.3
678	0	0.034	0	5000	0	0	0	21.72	20	23.3
679	0	0.034	0	5000	0	0	0	22.78	20	23.3
680	0	0.034	0	5000	0	0	0	26.11	20	23.3
681	0	0.034	0	5000	0	0	0	28.89	20	23.3
682	0	0.034	0	5000	0	0	0	31.11	20	23.3
683	0	0.034	0	5000	0	0	0	33.28	20	23.3
684	0	0.034	0	5000	0	0	0	35	20	23.3
685	0	0.034	0	5000	0	0	0	36.72	20	23.3
686	0	0.034	0	5000	0	0	0	37.22	20	23.3
687	0	0.034	0	5000	0	0	0	37.22	20	23.3
688	0	0.034	0	5000	0	0	0	37.78	20	23.3
689	0	0.034	0	5000	0	0	0	37.22	20	23.3
690	0	0.034	0	5000	0	0	0	37.22	20	23.3
691	0	0.034	0	5000	0	0	0	36.11	20	23.3
692	0	0.034	0	5000	0	0	0	34.39	20	23.3
693	0	0.034	0	5000	0	0	0	33.28	20	23.3
694	0	0.034	0	5000	0	0	0	30.61	20	23.3
695	0	0.034	0	5000	0	0	0	31.11	20	23.3
696	0	0.034	0	5000	0	0	0	28.28	20	23.3
697	0	0.034	0	5000	0	0	0	26.11	20	23.3
698	0	0.034	0	5000	0	0	0	27.78	20	23.3
699	0	0.034	0	5000	0	0	0	24.39	20	23.3
700	0	0.034	0	5000	0	0	0	25.61	20	23.3
701	0	0.034	0	5000	0	0	0	24.39	20	23.3
702	0	0.034	0	5000	0	0	0	23.89	20	23.3
703	0	0.034	0	5000	0	0	0	25	20	23.3
704	0	0.034	0	5000	0	0	0	27.22	20	23.3

705	0	0.034	0	5000	0	0	0	30.61	20	23.3
706	0	0.034	0	5000	0	0	0	32.78	20	23.3
707	0	0.034	0	5000	0	0	0	33.89	20	23.3
708	0	0.034	0	5000	0	0	0	33.28	20	23.3
709	0	0.034	0	5000	0	0	0	33.89	20	23.3
710	0	0.034	0	5000	0	0	0	32.22	20	23.3
711	0	0.034	0	5000	0	0	0	32.22	20	23.3
712	0	0.034	0	5000	0	0	0	31.72	20	23.3
713	0	0.034	0	5000	0	0	0	31.72	20	23.3
714	0	0.034	0	5000	0	0	0	32.22	20	23.3
715	0	0.034	0	5000	0	0	0	31.72	20	23.3
716	0	0.034	0	5000	0	0	0	30	20	23.3
717	0	0.034	0	5000	0	0	0	28.89	20	23.3
718	0	0.034	0	5000	0	0	0	28.28	20	23.3
719	0	0.034	0	5000	0	0	0	27.78	20	23.3
720	0	0.034	0	5000	0	0	0	27.22	20	23.3

Qf3

Pcp_File_Version=4

*** BLOCK I: ATMOSPHERIC INFORMATION ****

MaxAL (MaxAL = number of atmospheric data-records)

720

DailyVar SinusVar IDummy IDummy IDummy IDummy IDummy IDummy IDummy IDummy

f f f f f t f f f f

hCritS (max. allowed pressure head at the soil surface)

0

tAtm	Prec	rSoil	rRoot	hCritA	rB	hB	ht	tTop	tBot	Ampl	RootDepth
1	0	0.034	0	5000	0	0	26.72	20	23.3		
2	0	0.034	0	5000	0	0	26.72	20	23.3		
3	0	0.034	0	5000	0	0	26.72	20	23.3		
4	0	0.034	0	5000	0	0	25.61	20	23.3		
5	0	0.034	0	5000	0	0	24.39	20	23.3		
6	0	0.034	0	5000	0	0	23.89	20	23.3		
7	0	0.034	0	5000	0	0	23.89	20	23.3		
8	0	0.034	0	5000	0	0	23.28	20	23.3		
9	0	0.034	0	5000	0	0	25	20	23.3		
10	0	0.034	0	5000	0	0	23.89	20	23.3		
11	0	0.034	0	5000	0	0	21.72	20	23.3		
12	0	0.034	0	5000	0	0	21.11	20	23.3		
13	0	0.034	0	5000	0	0	21.72	20	23.3		
14	0	0.034	0	5000	0	0	22.78	20	23.3		
15	0	0.034	0	5000	0	0	23.89	20	23.3		
16	0	0.034	0	5000	0	0	25.61	20	23.3		
17	0	0.034	0	5000	0	0	24.39	20	23.3		
18	0	0.034	0	5000	0	0	22.78	20	23.3		
19	0	0.034	0	5000	0	0	22.78	20	23.3		
20	0	0.034	0	5000	0	0	22.22	20	23.3		
21	0	0.034	0	5000	0	0	22.78	20	23.3		
22	0	0.034	0	5000	0	0	22.22	20	23.3		
23	0	0.034	0	5000	0	0	22.78	20	23.3		
24	0	0.034	0	5000	0	0	22.22	20	23.3		

342

25	0	0.034	0	5000	0	0	0	21.72	20	23.3
26	0	0.034	0	5000	0	0	0	22.22	20	23.3
27	0	0.034	0	5000	0	0	0	21.72	20	23.3
28	0	0.034	0	5000	0	0	0	21.72	20	23.3
29	0	0.034	0	5000	0	0	0	21.11	20	23.3
30	0	0.034	0	5000	0	0	0	21.11	20	23.3
31	0	0.034	0	5000	0	0	0	22.22	20	23.3
32	0	0.034	0	5000	0	0	0	23.89	20	23.3
33	0	0.034	0	5000	0	0	0	25	20	23.3
34	0	0.034	0	5000	0	0	0	26.11	20	23.3
35	0	0.034	0	5000	0	0	0	27.78	20	23.3
36	0	0.034	0	5000	0	0	0	29.39	20	23.3
37	0	0.034	0	5000	0	0	0	30.61	20	23.3
38	0	0.034	0	5000	0	0	0	31.11	20	23.3
39	0	0.034	0	5000	0	0	0	32.22	20	23.3
40	0	0.034	0	5000	0	0	0	31.72	20	23.3
41	0	0.034	0	5000	0	0	0	31.72	20	23.3
42	0	0.034	0	5000	0	0	0	32.22	20	23.3
43	0	0.034	0	5000	0	0	0	31.11	20	23.3
44	0	0.034	0	5000	0	0	0	23.28	20	23.3
45	0	0.034	0	5000	0	0	0	25.61	20	23.3
46	0	0.034	0	5000	0	0	0	23.89	20	23.3
47	0	0.034	0	5000	0	0	0	24.39	20	23.3
48	0	0.034	0	5000	0	0	0	23.28	20	23.3
49	0	0.034	0	5000	0	0	0	22.78	20	23.3
50	0	0.034	0	5000	0	0	0	22.78	20	23.3
51	0	0.034	0	5000	0	0	0	22.78	20	23.3
52	0	0.034	0	5000	0	0	0	21.11	20	23.3
53	0	0.034	0	5000	0	0	0	21.11	20	23.3
54	0	0.034	0	5000	0	0	0	20.61	20	23.3
55	0	0.034	0	5000	0	0	0	21.72	20	23.3
56	0	0.034	0	5000	0	0	0	24.39	20	23.3
57	0	0.034	0	5000	0	0	0	26.11	20	23.3
58	0	0.034	0	5000	0	0	0	28.89	20	23.3

59	0	0.034	0	5000	0	0	0	30.61	20	23.3
60	0	0.034	0	5000	0	0	0	32.22	20	23.3
61	0	0.034	0	5000	0	0	0	33.28	20	23.3
62	0	0.034	0	5000	0	0	0	33.89	20	23.3
63	0	0.034	0	5000	0	0	0	35.61	20	23.3
64	0	0.034	0	5000	0	0	0	36.11	20	23.3
65	0	0.034	0	5000	0	0	0	36.72	20	23.3
66	0	0.034	0	5000	0	0	0	36.11	20	23.3
67	0	0.034	0	5000	0	0	0	33.28	20	23.3
68	0	0.034	0	5000	0	0	0	31.72	20	23.3
69	0	0.034	0	5000	0	0	0	30.61	20	23.3
70	0	0.034	0	5000	0	0	0	28.28	20	23.3
71	0	0.034	0	5000	0	0	0	28.28	20	23.3
72	0	0.034	0	5000	0	0	0	26.11	20	23.3
73	0	0.034	0	5000	0	0	0	26.11	20	23.3
74	0	0.034	0	5000	0	0	0	25.61	20	23.3
75	0	0.034	0	5000	0	0	0	25	20	23.3
76	0	0.034	0	5000	0	0	0	23.28	20	23.3
77	0	0.034	0	5000	0	0	0	22.22	20	23.3
78	0	0.034	0	5000	0	0	0	20.61	20	23.3
79	0	0.034	0	5000	0	0	0	22.78	20	23.3
80	0	0.034	0	5000	0	0	0	26.72	20	23.3
81	0	0.034	0	5000	0	0	0	28.89	20	23.3
82	0	0.034	0	5000	0	0	0	32.22	20	23.3
83	0	0.034	0	5000	0	0	0	35	20	23.3
84	0	0.034	0	5000	0	0	0	35.61	20	23.3
85	0	0.034	0	5000	0	0	0	37.22	20	23.3
86	0	0.034	0	5000	0	0	0	37.22	20	23.3
87	0	0.034	0	5000	0	0	0	36.72	20	23.3
88	0	0.034	0	5000	0	0	0	37.22	20	23.3
89	0	0.034	0	5000	0	0	0	37.78	20	23.3
90	0	0.034	0	5000	0	0	0	37.22	20	23.3
91	0	0.034	0	5000	0	0	0	36.72	20	23.3
92	0	0.034	0	5000	0	0	0	35.61	20	23.3

93	0	0.034	0	5000	0	0	0	33.89	20	23.3
94	0	0.034	0	5000	0	0	0	32.22	20	23.3
95	0	0.034	0	5000	0	0	0	31.72	20	23.3
96	0	0.034	0	5000	0	0	0	31.72	20	23.3
97	0	0.034	0	5000	0	0	0	31.11	20	23.3
98	0	0.034	0	5000	0	0	0	28.89	20	23.3
99	0	0.034	0	5000	0	0	0	28.28	20	23.3
100	0	0.034	0	5000	0	0	0	27.22	20	23.3
101	0	0.034	0	5000	0	0	0	25.61	20	23.3
102	0	0.034	0	5000	0	0	0	23.89	20	23.3
103	0	0.034	0	5000	0	0	0	26.11	20	23.3
104	0	0.034	0	5000	0	0	0	28.28	20	23.3
105	0	0.034	0	5000	0	0	0	31.11	20	23.3
106	0	0.034	0	5000	0	0	0	33.89	20	23.3
107	0	0.034	0	5000	0	0	0	34.39	20	23.3
108	0	0.034	0	5000	0	0	0	35.61	20	23.3
109	0	0.034	0	5000	0	0	0	36.11	20	23.3
110	0	0.034	0	5000	0	0	0	35.61	20	23.3
111	0	0.034	0	5000	0	0	0	36.11	20	23.3
112	0	0.034	0	5000	0	0	0	36.72	20	23.3
113	0	0.034	0	5000	0	0	0	36.11	20	23.3
114	0	0.034	0	5000	0	0	0	35.61	20	23.3
115	0	0.034	0	5000	0	0	0	34.39	20	23.3
116	0	0.034	0	5000	0	0	0	32.78	20	23.3
117	0	0.034	0	5000	0	0	0	31.11	20	23.3
118	0	0.034	0	5000	0	0	0	30.61	20	23.3
119	0	0.034	0	5000	0	0	0	30	20	23.3
120	0	0.034	0	5000	0	0	0	28.89	20	23.3
121	0	0.034	0	5000	0	0	0	27.78	20	23.3
122	0	0.034	0	5000	0	0	0	25.61	20	23.3
123	0	0.034	0	5000	0	0	0	23.28	20	23.3
124	0	0.034	0	5000	0	0	0	23.89	20	23.3
125	0	0.034	0	5000	0	0	0	23.28	20	23.3
126	0	0.034	0	5000	0	0	0	22.78	20	23.3

127	0	0.034	0	5000	0	0	0	22.78	20	23.3
128	0	0.034	0	5000	0	0	0	24.39	20	23.3
129	0	0.034	0	5000	0	0	0	27.22	20	23.3
130	0	0.034	0	5000	0	0	0	29.39	20	23.3
131	0	0.034	0	5000	0	0	0	31.11	20	23.3
132	0	0.034	0	5000	0	0	0	32.22	20	23.3
133	0	0.034	0	5000	0	0	0	33.28	20	23.3
134	0	0.034	0	5000	0	0	0	33.89	20	23.3
135	0	0.034	0	5000	0	0	0	33.89	20	23.3
136	0	0.034	0	5000	0	0	0	33.89	20	23.3
137	0	0.034	0	5000	0	0	0	33.89	20	23.3
138	0	0.034	0	5000	0	0	0	33.89	20	23.3
139	0	0.034	0	5000	0	0	0	32.78	20	23.3
140	0	0.034	0	5000	0	0	0	30.61	20	23.3
141	0	0.034	0	5000	0	0	0	28.89	20	23.3
142	0	0.034	0	5000	0	0	0	25.61	20	23.3
143	0	0.034	0	5000	0	0	0	22.78	20	23.3
144	0	0.034	0	5000	0	0	0	22.78	20	23.3
145	0	0.034	0	5000	0	0	0	22.78	20	23.3
146	0	0.034	0	5000	0	0	0	21.11	20	23.3
147	0	0.034	0	5000	0	0	0	20.61	20	23.3
148	0	0.034	0	5000	0	0	0	18.28	20	23.3
149	0	0.034	0	5000	0	0	0	16.72	20	23.3
150	0	0.034	0	5000	0	0	0	16.72	20	23.3
151	0	0.034	0	5000	0	0	0	17.78	20	23.3
152	0	0.034	0	5000	0	0	0	21.72	20	23.3
153	0	0.034	0	5000	0	0	0	24.39	20	23.3
154	0	0.034	0	5000	0	0	0	26.11	20	23.3
155	0	0.034	0	5000	0	0	0	28.28	20	23.3
156	0	0.034	0	5000	0	0	0	28.89	20	23.3
157	0	0.034	0	5000	0	0	0	31.11	20	23.3
158	0	0.034	0	5000	0	0	0	32.78	20	23.3
159	0	0.034	0	5000	0	0	0	33.89	20	23.3
160	0	0.034	0	5000	0	0	0	33.89	20	23.3

161	0	0.034	0	5000	0	0	0	33.89	20	23.3
162	0	0.034	0	5000	0	0	0	33.89	20	23.3
163	0	0.034	0	5000	0	0	0	32.78	20	23.3
164	0	0.034	0	5000	0	0	0	30.61	20	23.3
165	0	0.034	0	5000	0	0	0	29.39	20	23.3
166	0	0.034	0	5000	0	0	0	26.72	20	23.3
167	0	0.034	0	5000	0	0	0	26.72	20	23.3
168	0	0.034	0	5000	0	0	0	23.28	20	23.3
169	0	0.034	0	5000	0	0	0	23.89	20	23.3
170	0	0.034	0	5000	0	0	0	19.39	20	23.3
171	0	0.034	0	5000	0	0	0	17.78	20	23.3
172	0	0.034	0	5000	0	0	0	19.39	20	23.3
173	0	0.034	0	5000	0	0	0	17.22	20	23.3
174	0	0.034	0	5000	0	0	0	15.61	20	23.3
175	0	0.034	0	5000	0	0	0	17.78	20	23.3
176	0	0.034	0	5000	0	0	0	22.22	20	23.3
177	0	0.034	0	5000	0	0	0	25	20	23.3
178	0	0.034	0	5000	0	0	0	28.28	20	23.3
179	0	0.034	0	5000	0	0	0	31.72	20	23.3
180	0	0.034	0	5000	0	0	0	32.22	20	23.3
181	0	0.034	0	5000	0	0	0	33.28	20	23.3
182	0	0.034	0	5000	0	0	0	33.89	20	23.3
183	0	0.034	0	5000	0	0	0	34.39	20	23.3
184	0	0.034	0	5000	0	0	0	35	20	23.3
185	0	0.034	0	5000	0	0	0	35.61	20	23.3
186	0	0.034	0	5000	0	0	0	35	20	23.3
187	0	0.034	0	5000	0	0	0	33.89	20	23.3
188	0	0.034	0	5000	0	0	0	31.72	20	23.3
189	0	0.034	0	5000	0	0	0	30.61	20	23.3
190	0	0.034	0	5000	0	0	0	28.89	20	23.3
191	0	0.034	0	5000	0	0	0	25.61	20	23.3
192	0	0.034	0	5000	0	0	0	27.22	20	23.3
193	0	0.034	0	5000	0	0	0	22.22	20	23.3
194	0	0.034	0	5000	0	0	0	19.39	20	23.3

195	0	0.034	0	5000	0	0	0	20.61	20	23.3
196	0	0.034	0	5000	0	0	0	20	20	23.3
197	0	0.034	0	5000	0	0	0	18.89	20	23.3
198	0	0.034	0	5000	0	0	0	16.72	20	23.3
199	0	0.034	0	5000	0	0	0	19.39	20	23.3
200	0	0.034	0	5000	0	0	0	23.89	20	23.3
201	0	0.034	0	5000	0	0	0	26.72	20	23.3
202	0	0.034	0	5000	0	0	0	29.39	20	23.3
203	0	0.034	0	5000	0	0	0	32.22	20	23.3
204	0	0.034	0	5000	0	0	0	32.78	20	23.3
205	0	0.034	0	5000	0	0	0	33.28	20	23.3
206	0	0.034	0	5000	0	0	0	35	20	23.3
207	0	0.034	0	5000	0	0	0	36.72	20	23.3
208	0	0.034	0	5000	0	0	0	36.11	20	23.3
209	0	0.034	0	5000	0	0	0	36.11	20	23.3
210	0	0.034	0	5000	0	0	0	35.61	20	23.3
211	0	0.034	0	5000	0	0	0	33.89	20	23.3
212	0	0.034	0	5000	0	0	0	32.22	20	23.3
213	0	0.034	0	5000	0	0	0	30.61	20	23.3
214	0	0.034	0	5000	0	0	0	28.28	20	23.3
215	0	0.034	0	5000	0	0	0	24.39	20	23.3
216	0	0.034	0	5000	0	0	0	26.72	20	23.3
217	0	0.034	0	5000	0	0	0	24.39	20	23.3
218	0	0.034	0	5000	0	0	0	23.89	20	23.3
219	0	0.034	0	5000	0	0	0	21.11	20	23.3
220	0	0.034	0	5000	0	0	0	21.72	20	23.3
221	0	0.034	0	5000	0	0	0	20	20	23.3
222	0	0.034	0	5000	0	0	0	17.78	20	23.3
223	0	0.034	0	5000	0	0	0	19.39	20	23.3
224	0	0.034	0	5000	0	0	0	22.78	20	23.3
225	0	0.034	0	5000	0	0	0	26.11	20	23.3
226	0	0.034	0	5000	0	0	0	29.39	20	23.3
227	0	0.034	0	5000	0	0	0	32.22	20	23.3
228	0	0.034	0	5000	0	0	0	32.78	20	23.3

229	0	0.034	0	5000	0	0	0	33.89	20	23.3
230	0	0.034	0	5000	0	0	0	35	20	23.3
231	0	0.034	0	5000	0	0	0	35.61	20	23.3
232	0	0.034	0	5000	0	0	0	36.72	20	23.3
233	0	0.034	0	5000	0	0	0	37.22	20	23.3
234	0	0.034	0	5000	0	0	0	36.11	20	23.3
235	0	0.034	0	5000	0	0	0	35	20	23.3
236	0	0.034	0	5000	0	0	0	32.78	20	23.3
237	0	0.034	0	5000	0	0	0	30.61	20	23.3
238	0	0.034	0	5000	0	0	0	30	20	23.3
239	0	0.034	0	5000	0	0	0	27.22	20	23.3
240	0	0.034	0	5000	0	0	0	25	20	23.3
241	0	0.034	0	5000	0	0	0	25	20	23.3
242	0	0.034	0	5000	0	0	0	23.89	20	23.3
243	0	0.034	0	5000	0	0	0	22.22	20	23.3
244	0	0.034	0	5000	0	0	0	20	20	23.3
245	0	0.034	0	5000	0	0	0	20	20	23.3
246	0	0.034	0	5000	0	0	0	18.28	20	23.3
247	0	0.034	0	5000	0	0	0	20.61	20	23.3
248	0	0.034	0	5000	0	0	0	23.89	20	23.3
249	0	0.034	0	5000	0	0	0	27.22	20	23.3
250	0	0.034	0	5000	0	0	0	32.78	20	23.3
251	0	0.034	0	5000	0	0	0	33.28	20	23.3
252	0	0.034	0	5000	0	0	0	35.61	20	23.3
253	0	0.034	0	5000	0	0	0	35.61	20	23.3
254	0	0.034	0	5000	0	0	0	36.11	20	23.3
255	0	0.034	0	5000	0	0	0	36.72	20	23.3
256	0	0.034	0	5000	0	0	0	37.78	20	23.3
257	0	0.034	0	5000	0	0	0	37.78	20	23.3
258	0	0.034	0	5000	0	0	0	36.72	20	23.3
259	0	0.034	0	5000	0	0	0	35.61	20	23.3
260	0	0.034	0	5000	0	0	0	33.89	20	23.3
261	0	0.034	0	5000	0	0	0	32.78	20	23.3
262	0	0.034	0	5000	0	0	0	30	20	23.3

263	0	0.034	0	5000	0	0	0	29.39	20	23.3
264	0	0.034	0	5000	0	0	0	28.28	20	23.3
265	0	0.034	0	5000	0	0	0	27.78	20	23.3
266	0	0.034	0	5000	0	0	0	26.72	20	23.3
267	0	0.034	0	5000	0	0	0	24.39	20	23.3
268	0	0.034	0	5000	0	0	0	23.89	20	23.3
269	0	0.034	0	5000	0	0	0	22.22	20	23.3
270	0	0.034	0	5000	0	0	0	22.78	20	23.3
271	0	0.034	0	5000	0	0	0	24.39	20	23.3
272	0	0.034	0	5000	0	0	0	27.22	20	23.3
273	0	0.034	0	5000	0	0	0	30	20	23.3
274	0	0.034	0	5000	0	0	0	32.78	20	23.3
275	0	0.034	0	5000	0	0	0	33.89	20	23.3
276	0	0.034	0	5000	0	0	0	34.39	20	23.3
277	0	0.034	0	5000	0	0	0	35.61	20	23.3
278	0	0.034	0	5000	0	0	0	36.72	20	23.3
279	0	0.034	0	5000	0	0	0	37.22	20	23.3
280	0	0.034	0	5000	0	0	0	37.78	20	23.3
281	0	0.034	0	5000	0	0	0	37.78	20	23.3
282	0	0.034	0	5000	0	0	0	37.78	20	23.3
283	0	0.034	0	5000	0	0	0	36.72	20	23.3
284	0	0.034	0	5000	0	0	0	35	20	23.3
285	0	0.034	0	5000	0	0	0	33.89	20	23.3
286	0	0.034	0	5000	0	0	0	32.78	20	23.3
287	0	0.034	0	5000	0	0	0	31.11	20	23.3
288	0	0.034	0	5000	0	0	0	31.72	20	23.3
289	0	0.034	0	5000	0	0	0	27.78	20	23.3
290	0	0.034	0	5000	0	0	0	25	20	23.3
291	0	0.034	0	5000	0	0	0	25.61	20	23.3
292	0	0.034	0	5000	0	0	0	25.61	20	23.3
293	0	0.034	0	5000	0	0	0	23.89	20	23.3
294	0	0.034	0	5000	0	0	0	23.89	20	23.3
295	0	0.034	0	5000	0	0	0	23.89	20	23.3
296	0	0.034	0	5000	0	0	0	27.22	20	23.3

297	0	0.034	0	5000	0	0	0	30.61	20	23.3
298	0	0.034	0	5000	0	0	0	33.28	20	23.3
299	0	0.034	0	5000	0	0	0	35	20	23.3
300	0	0.034	0	5000	0	0	0	37.22	20	23.3
301	0	0.034	0	5000	0	0	0	38.28	20	23.3
302	0	0.034	0	5000	0	0	0	38.28	20	23.3
303	0	0.034	0	5000	0	0	0	38.28	20	23.3
304	0	0.034	0	5000	0	0	0	38.89	20	23.3
305	0	0.034	0	5000	0	0	0	38.89	20	23.3
306	0	0.034	0	5000	0	0	0	38.28	20	23.3
307	0	0.034	0	5000	0	0	0	37.22	20	23.3
308	0	0.034	0	5000	0	0	0	35	20	23.3
309	0	0.034	0	5000	0	0	0	34.39	20	23.3
310	0	0.034	0	5000	0	0	0	30.61	20	23.3
311	0	0.034	0	5000	0	0	0	30.61	20	23.3
312	0	0.034	0	5000	0	0	0	28.89	20	23.3
313	0	0.034	0	5000	0	0	0	26.72	20	23.3
314	0	0.034	0	5000	0	0	0	24.39	20	23.3
315	0	0.034	0	5000	0	0	0	25.61	20	23.3
316	0	0.034	0	5000	0	0	0	23.28	20	23.3
317	0	0.034	0	5000	0	0	0	21.72	20	23.3
318	0	0.034	0	5000	0	0	0	22.22	20	23.3
319	0	0.034	0	5000	0	0	0	23.28	20	23.3
320	0	0.034	0	5000	0	0	0	25.61	20	23.3
321	0	0.034	0	5000	0	0	0	32.22	20	23.3
322	0	0.034	0	5000	0	0	0	33.89	20	23.3
323	0	0.034	0	5000	0	0	0	36.11	20	23.3
324	0	0.034	0	5000	0	0	0	36.11	20	23.3
325	0	0.034	0	5000	0	0	0	36.72	20	23.3
326	0	0.034	0	5000	0	0	0	37.22	20	23.3
327	0	0.034	0	5000	0	0	0	37.78	20	23.3
328	0	0.034	0	5000	0	0	0	36.72	20	23.3
329	0	0.034	0	5000	0	0	0	37.22	20	23.3
330	0	0.034	0	5000	0	0	0	36.72	20	23.3

331	0	0.034	0	5000	0	0	0	35.61	20	23.3
332	0	0.034	0	5000	0	0	0	33.89	20	23.3
333	0	0.034	0	5000	0	0	0	32.22	20	23.3
334	0	0.034	0	5000	0	0	0	30.61	20	23.3
335	0	0.034	0	5000	0	0	0	28.89	20	23.3
336	0	0.034	0	5000	0	0	0	26.72	20	23.3
337	0	0.034	0	5000	0	0	0	25.61	20	23.3
338	0	0.034	0	5000	0	0	0	25	20	23.3
339	0	0.034	0	5000	0	0	0	24.39	20	23.3
340	0	0.034	0	5000	0	0	0	23.28	20	23.3
341	0	0.034	0	5000	0	0	0	23.28	20	23.3
342	0	0.034	0	5000	0	0	0	22.78	20	23.3
343	0	0.034	0	5000	0	0	0	22.22	20	23.3
344	0	0.034	0	5000	0	0	0	26.72	20	23.3
345	0	0.034	0	5000	0	0	0	28.89	20	23.3
346	0	0.034	0	5000	0	0	0	32.78	20	23.3
347	0	0.034	0	5000	0	0	0	34.39	20	23.3
348	0	0.034	0	5000	0	0	0	36.72	20	23.3
349	0	0.034	0	5000	0	0	0	36.72	20	23.3
350	0	0.034	0	5000	0	0	0	37.78	20	23.3
351	0	0.034	0	5000	0	0	0	36.72	20	23.3
352	0	0.034	0	5000	0	0	0	37.78	20	23.3
353	0	0.034	0	5000	0	0	0	37.78	20	23.3
354	0	0.034	0	5000	0	0	0	37.78	20	23.3
355	0	0.034	0	5000	0	0	0	36.72	20	23.3
356	0	0.034	0	5000	0	0	0	35	20	23.3
357	0	0.034	0	5000	0	0	0	33.28	20	23.3
358	0	0.034	0	5000	0	0	0	31.11	20	23.3
359	0	0.034	0	5000	0	0	0	30.61	20	23.3
360	0	0.034	0	5000	0	0	0	27.78	20	23.3
361	0	0.034	0	5000	0	0	0	27.78	20	23.3
362	0	0.034	0	5000	0	0	0	25.61	20	23.3
363	0	0.034	0	5000	0	0	0	23.28	20	23.3
364	0	0.034	0	5000	0	0	0	23.89	20	23.3

365	0	0.034	0	5000	0	0	0	24.39	20	23.3
366	0	0.034	0	5000	0	0	0	23.89	20	23.3
367	0	0.034	0	5000	0	0	0	23.89	20	23.3
368	0	0.034	0	5000	0	0	0	27.78	20	23.3
369	0	0.034	0	5000	0	0	0	31.11	20	23.3
370	0	0.034	0	5000	0	0	0	32.78	20	23.3
371	0	0.034	0	5000	0	0	0	36.11	20	23.3
372	0	0.034	0	5000	0	0	0	37.22	20	23.3
373	0	0.034	0	5000	0	0	0	36.11	20	23.3
374	0	0.034	0	5000	0	0	0	38.28	20	23.3
375	0	0.034	0	5000	0	0	0	37.78	20	23.3
376	0	0.034	0	5000	0	0	0	38.89	20	23.3
377	0	0.034	0	5000	0	0	0	38.28	20	23.3
378	0	0.034	0	5000	0	0	0	36.11	20	23.3
379	0	0.034	0	5000	0	0	0	36.72	20	23.3
380	0	0.034	0	5000	0	0	0	35	20	23.3
381	0	0.034	0	5000	0	0	0	33.89	20	23.3
382	0	0.034	0	5000	0	0	0	31.72	20	23.3
383	0	0.034	0	5000	0	0	0	30	20	23.3
384	0	0.034	0	5000	0	0	0	28.89	20	23.3
385	0	0.034	0	5000	0	0	0	29.39	20	23.3
386	0	0.034	0	5000	0	0	0	27.22	20	23.3
387	0	0.034	0	5000	0	0	0	26.11	20	23.3
388	0	0.034	0	5000	0	0	0	25	20	23.3
389	0	0.034	0	5000	0	0	0	25	20	23.3
390	0	0.034	0	5000	0	0	0	25	20	23.3
391	0	0.034	0	5000	0	0	0	24.39	20	23.3
392	0	0.034	0	5000	0	0	0	27.78	20	23.3
393	0	0.034	0	5000	0	0	0	32.78	20	23.3
394	0	0.034	0	5000	0	0	0	33.89	20	23.3
395	0	0.034	0	5000	0	0	0	35.61	20	23.3
396	0	0.034	0	5000	0	0	0	36.11	20	23.3
397	0	0.034	0	5000	0	0	0	35.61	20	23.3
398	0	0.034	0	5000	0	0	0	37.78	20	23.3

399	0	0.034	0	5000	0	0	0	38.28	20	23.3
400	0	0.034	0	5000	0	0	0	37.22	20	23.3
401	0	0.034	0	5000	0	0	0	36.72	20	23.3
402	0	0.034	0	5000	0	0	0	36.11	20	23.3
403	0	0.034	0	5000	0	0	0	32.78	20	23.3
404	0	0.034	0	5000	0	0	0	30	20	23.3
405	0	0.034	0	5000	0	0	0	28.28	20	23.3
406	0	0.034	0	5000	0	0	0	28.28	20	23.3
407	0	0.034	0	5000	0	0	0	29.39	20	23.3
408	0	0.034	0	5000	0	0	0	28.89	20	23.3
409	0	0.034	0	5000	0	0	0	28.89	20	23.3
410	0	0.034	0	5000	0	0	0	27.78	20	23.3
411	0	0.034	0	5000	0	0	0	28.28	20	23.3
412	0	0.034	0	5000	0	0	0	26.72	20	23.3
413	0	0.034	0	5000	0	0	0	26.72	20	23.3
414	0	0.034	0	5000	0	0	0	26.11	20	23.3
415	0	0.034	0	5000	0	0	0	26.11	20	23.3
416	0	0.034	0	5000	0	0	0	28.28	20	23.3
417	0	0.034	0	5000	0	0	0	31.11	20	23.3
418	0	0.034	0	5000	0	0	0	32.78	20	23.3
419	0	0.034	0	5000	0	0	0	33.89	20	23.3
420	0	0.034	0	5000	0	0	0	35.61	20	23.3
421	0	0.034	0	5000	0	0	0	35.61	20	23.3
422	0	0.034	0	5000	0	0	0	36.72	20	23.3
423	0	0.034	0	5000	0	0	0	37.78	20	23.3
424	0	0.034	0	5000	0	0	0	37.78	20	23.3
425	0	0.034	0	5000	0	0	0	37.78	20	23.3
426	0	0.034	0	5000	0	0	0	36.72	20	23.3
427	0	0.034	0	5000	0	0	0	35	20	23.3
428	0	0.034	0	5000	0	0	0	33.89	20	23.3
429	0	0.034	0	5000	0	0	0	33.28	20	23.3
430	0	0.034	0	5000	0	0	0	32.78	20	23.3
431	0	0.034	0	5000	0	0	0	30	20	23.3
432	0	0.034	0	5000	0	0	0	31.11	20	23.3

433	0	0.034	0	5000	0	0	0	30	20	23.3
434	0	0.034	0	5000	0	0	0	28.28	20	23.3
435	0	0.034	0	5000	0	0	0	30	20	23.3
436	0	0.034	0	5000	0	0	0	27.78	20	23.3
437	0	0.034	0	5000	0	0	0	27.78	20	23.3
438	0	0.034	0	5000	0	0	0	29.39	20	23.3
439	0	0.034	0	5000	0	0	0	26.72	20	23.3
440	0	0.034	0	5000	0	0	0	29.39	20	23.3
441	0	0.034	0	5000	0	0	0	31.11	20	23.3
442	0	0.034	0	5000	0	0	0	33.89	20	23.3
443	0	0.034	0	5000	0	0	0	35	20	23.3
444	0	0.034	0	5000	0	0	0	36.11	20	23.3
445	0	0.034	0	5000	0	0	0	36.72	20	23.3
446	0	0.034	0	5000	0	0	0	37.78	20	23.3
447	0	0.034	0	5000	0	0	0	37.22	20	23.3
448	0	0.034	0	5000	0	0	0	37.22	20	23.3
449	0	0.034	0	5000	0	0	0	37.22	20	23.3
450	0	0.034	0	5000	0	0	0	36.11	20	23.3
451	0	0.034	0	5000	0	0	0	35	20	23.3
452	0	0.034	0	5000	0	0	0	33.28	20	23.3
453	0	0.034	0	5000	0	0	0	32.78	20	23.3
454	0	0.034	0	5000	0	0	0	29.39	20	23.3
455	0	0.034	0	5000	0	0	0	28.89	20	23.3
456	0	0.034	0	5000	0	0	0	27.22	20	23.3
457	0	0.034	0	5000	0	0	0	23.89	20	23.3
458	0	0.034	0	5000	0	0	0	25	20	23.3
459	0	0.034	0	5000	0	0	0	21.72	20	23.3
460	0	0.034	0	5000	0	0	0	21.11	20	23.3
461	0	0.034	0	5000	0	0	0	18.89	20	23.3
462	0	0.034	0	5000	0	0	0	19.39	20	23.3
463	0	0.034	0	5000	0	0	0	20	20	23.3
464	0	0.034	0	5000	0	0	0	23.89	20	23.3
465	0	0.034	0	5000	0	0	0	28.28	20	23.3
466	0	0.034	0	5000	0	0	0	29.39	20	23.3

467	0	0.034	0	5000	0	0	0	31.11	20	23.3
468	0	0.034	0	5000	0	0	0	32.78	20	23.3
469	0	0.034	0	5000	0	0	0	33.28	20	23.3
470	0	0.034	0	5000	0	0	0	35	20	23.3
471	0	0.034	0	5000	0	0	0	36.11	20	23.3
472	0	0.034	0	5000	0	0	0	36.72	20	23.3
473	0	0.034	0	5000	0	0	0	36.72	20	23.3
474	0	0.034	0	5000	0	0	0	36.72	20	23.3
475	0	0.034	0	5000	0	0	0	35.61	20	23.3
476	0	0.034	0	5000	0	0	0	31.72	20	23.3
477	0	0.034	0	5000	0	0	0	30.61	20	23.3
478	0	0.034	0	5000	0	0	0	26.11	20	23.3
479	0	0.034	0	5000	0	0	0	25.61	20	23.3
480	0	0.034	0	5000	0	0	0	21.11	20	23.3
481	0	0.034	0	5000	0	0	0	21.72	20	23.3
482	0	0.034	0	5000	0	0	0	20	20	23.3
483	0	0.034	0	5000	0	0	0	17.22	20	23.3
484	0	0.034	0	5000	0	0	0	17.78	20	23.3
485	0	0.034	0	5000	0	0	0	17.22	20	23.3
486	0	0.034	0	5000	0	0	0	17.22	20	23.3
487	0	0.034	0	5000	0	0	0	18.28	20	23.3
488	0	0.034	0	5000	0	0	0	22.78	20	23.3
489	0	0.034	0	5000	0	0	0	26.11	20	23.3
490	0	0.034	0	5000	0	0	0	30.61	20	23.3
491	0	0.034	0	5000	0	0	0	33.28	20	23.3
492	0	0.034	0	5000	0	0	0	34.39	20	23.3
493	0	0.034	0	5000	0	0	0	35.61	20	23.3
494	0	0.034	0	5000	0	0	0	37.78	20	23.3
495	0	0.034	0	5000	0	0	0	38.28	20	23.3
496	0	0.034	0	5000	0	0	0	38.28	20	23.3
497	0	0.034	0	5000	0	0	0	38.89	20	23.3
498	0	0.034	0	5000	0	0	0	37.78	20	23.3
499	0	0.034	0	5000	0	0	0	36.72	20	23.3
500	0	0.034	0	5000	0	0	0	34.39	20	23.3

501	0	0.034	0	5000	0	0	0	31.11	20	23.3
502	0	0.034	0	5000	0	0	0	29.39	20	23.3
503	0	0.034	0	5000	0	0	0	26.72	20	23.3
504	0	0.034	0	5000	0	0	0	25	20	23.3
505	0	0.034	0	5000	0	0	0	22.78	20	23.3
506	0	0.034	0	5000	0	0	0	22.22	20	23.3
507	0	0.034	0	5000	0	0	0	21.72	20	23.3
508	0	0.034	0	5000	0	0	0	19.39	20	23.3
509	0	0.034	0	5000	0	0	0	18.89	20	23.3
510	0	0.034	0	5000	0	0	0	18.89	20	23.3
511	0	0.034	0	5000	0	0	0	18.89	20	23.3
512	0	0.034	0	5000	0	0	0	25	20	23.3
513	0	0.034	0	5000	0	0	0	27.22	20	23.3
514	0	0.034	0	5000	0	0	0	31.11	20	23.3
515	0	0.034	0	5000	0	0	0	33.89	20	23.3
516	0	0.034	0	5000	0	0	0	35	20	23.3
517	0	0.034	0	5000	0	0	0	36.72	20	23.3
518	0	0.034	0	5000	0	0	0	38.28	20	23.3
519	0	0.034	0	5000	0	0	0	37.78	20	23.3
520	0	0.034	0	5000	0	0	0	38.28	20	23.3
521	0	0.034	0	5000	0	0	0	38.89	20	23.3
522	0	0.034	0	5000	0	0	0	37.78	20	23.3
523	0	0.034	0	5000	0	0	0	36.72	20	23.3
524	0	0.034	0	5000	0	0	0	35	20	23.3
525	0	0.034	0	5000	0	0	0	31.11	20	23.3
526	0	0.034	0	5000	0	0	0	30	20	23.3
527	0	0.034	0	5000	0	0	0	30	20	23.3
528	0	0.034	0	5000	0	0	0	25	20	23.3
529	0	0.034	0	5000	0	0	0	25	20	23.3
530	0	0.034	0	5000	0	0	0	23.89	20	23.3
531	0	0.034	0	5000	0	0	0	23.89	20	23.3
532	0	0.034	0	5000	0	0	0	20.61	20	23.3
533	0	0.034	0	5000	0	0	0	21.11	20	23.3
534	0	0.034	0	5000	0	0	0	21.72	20	23.3

535	0	0.034	0	5000	0	0	0	21.11	20	23.3
536	0	0.034	0	5000	0	0	0	26.11	20	23.3
537	0	0.034	0	5000	0	0	0	27.78	20	23.3
538	0	0.034	0	5000	0	0	0	30	20	23.3
539	0	0.034	0	5000	0	0	0	31.72	20	23.3
540	0	0.034	0	5000	0	0	0	33.28	20	23.3
541	0	0.034	0	5000	0	0	0	34.39	20	23.3
542	0	0.034	0	5000	0	0	0	36.11	20	23.3
543	0	0.034	0	5000	0	0	0	36.11	20	23.3
544	0	0.034	0	5000	0	0	0	36.72	20	23.3
545	0	0.034	0	5000	0	0	0	37.22	20	23.3
546	0	0.034	0	5000	0	0	0	37.22	20	23.3
547	0	0.034	0	5000	0	0	0	36.11	20	23.3
548	0	0.034	0	5000	0	0	0	33.89	20	23.3
549	0	0.034	0	5000	0	0	0	33.28	20	23.3
550	0	0.034	0	5000	0	0	0	30	20	23.3
551	0	0.034	0	5000	0	0	0	28.28	20	23.3
552	0	0.034	0	5000	0	0	0	24.39	20	23.3
553	0	0.034	0	5000	0	0	0	24.39	20	23.3
554	0	0.034	0	5000	0	0	0	25	20	23.3
555	0	0.034	0	5000	0	0	0	22.22	20	23.3
556	0	0.034	0	5000	0	0	0	21.72	20	23.3
557	0	0.034	0	5000	0	0	0	20	20	23.3
558	0	0.034	0	5000	0	0	0	18.89	20	23.3
559	0	0.034	0	5000	0	0	0	20	20	23.3
560	0	0.034	0	5000	0	0	0	25	20	23.3
561	0	0.034	0	5000	0	0	0	28.89	20	23.3
562	0	0.034	0	5000	0	0	0	31.72	20	23.3
563	0	0.034	0	5000	0	0	0	33.89	20	23.3
564	0	0.034	0	5000	0	0	0	35.61	20	23.3
565	0	0.034	0	5000	0	0	0	37.22	20	23.3
566	0	0.034	0	5000	0	0	0	37.22	20	23.3
567	0	0.034	0	5000	0	0	0	37.22	20	23.3
568	0	0.034	0	5000	0	0	0	38.28	20	23.3

569	0	0.034	0	5000	0	0	0	38.28	20	23.3
570	0	0.034	0	5000	0	0	0	37.78	20	23.3
571	0	0.034	0	5000	0	0	0	36.72	20	23.3
572	0	0.034	0	5000	0	0	0	33.28	20	23.3
573	0	0.034	0	5000	0	0	0	32.22	20	23.3
574	0	0.034	0	5000	0	0	0	30	20	23.3
575	0	0.034	0	5000	0	0	0	27.78	20	23.3
576	0	0.034	0	5000	0	0	0	27.22	20	23.3
577	0	0.034	0	5000	0	0	0	25.61	20	23.3
578	0	0.034	0	5000	0	0	0	27.22	20	23.3
579	0	0.034	0	5000	0	0	0	23.89	20	23.3
580	0	0.034	0	5000	0	0	0	21.72	20	23.3
581	0	0.034	0	5000	0	0	0	22.22	20	23.3
582	0	0.034	0	5000	0	0	0	21.11	20	23.3
583	0	0.034	0	5000	0	0	0	23.28	20	23.3
584	0	0.034	0	5000	0	0	0	26.11	20	23.3
585	0	0.034	0	5000	0	0	0	29.39	20	23.3
586	0	0.034	0	5000	0	0	0	33.89	20	23.3
587	0	0.034	0	5000	0	0	0	35	20	23.3
588	0	0.034	0	5000	0	0	0	36.11	20	23.3
589	0	0.034	0	5000	0	0	0	36.72	20	23.3
590	0	0.034	0	5000	0	0	0	37.78	20	23.3
591	0	0.034	0	5000	0	0	0	35.61	20	23.3
592	0	0.034	0	5000	0	0	0	34.39	20	23.3
593	0	0.034	0	5000	0	0	0	30	20	23.3
594	0	0.034	0	5000	0	0	0	32.22	20	23.3
595	0	0.034	0	5000	0	0	0	31.72	20	23.3
596	0	0.034	0	5000	0	0	0	30	20	23.3
597	0	0.034	0	5000	0	0	0	28.89	20	23.3
598	0	0.034	0	5000	0	0	0	28.89	20	23.3
599	0	0.034	0	5000	0	0	0	25.61	20	23.3
600	0	0.034	0	5000	0	0	0	26.11	20	23.3
601	0	0.034	0	5000	0	0	0	26.11	20	23.3
602	0	0.034	0	5000	0	0	0	23.28	20	23.3

603	0	0.034	0	5000	0	0	0	23.89	20	23.3
604	0	0.034	0	5000	0	0	0	21.72	20	23.3
605	0	0.034	0	5000	0	0	0	21.72	20	23.3
606	0	0.034	0	5000	0	0	0	21.11	20	23.3
607	0	0.034	0	5000	0	0	0	22.22	20	23.3
608	0	0.034	0	5000	0	0	0	23.89	20	23.3
609	0	0.034	0	5000	0	0	0	28.28	20	23.3
610	0	0.034	0	5000	0	0	0	30.61	20	23.3
611	0	0.034	0	5000	0	0	0	31.11	20	23.3
612	0	0.034	0	5000	0	0	0	32.78	20	23.3
613	0	0.034	0	5000	0	0	0	32.78	20	23.3
614	0	0.034	0	5000	0	0	0	31.11	20	23.3
615	0	0.034	0	5000	0	0	0	31.11	20	23.3
616	0	0.034	0	5000	0	0	0	28.89	20	23.3
617	0	0.034	0	5000	0	0	0	29.39	20	23.3
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619	0	0.034	0	5000	0	0	0	28.89	20	23.3
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624	0	0.034	0	5000	0	0	0	25	20	23.3
625	0	0.034	0	5000	0	0	0	24.39	20	23.3
626	0	0.034	0	5000	0	0	0	22.78	20	23.3
627	0	0.034	0	5000	0	0	0	23.28	20	23.3
628	0	0.034	0	5000	0	0	0	23.28	20	23.3
629	0	0.034	0	5000	0	0	0	23.89	20	23.3
630	0	0.034	0	5000	0	0	0	22.78	20	23.3
631	0	0.034	0	5000	0	0	0	21.72	20	23.3
632	0	0.034	0	5000	0	0	0	23.28	20	23.3
633	0	0.034	0	5000	0	0	0	23.89	20	23.3
634	0	0.034	0	5000	0	0	0	25.61	20	23.3
635	0	0.034	0	5000	0	0	0	27.78	20	23.3
636	0	0.034	0	5000	0	0	0	28.28	20	23.3

637	0	0.034	0	5000	0	0	0	30.61	20	23.3
638	0	0.034	0	5000	0	0	0	31.11	20	23.3
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663	0	0.034	0	5000	0	0	0	35	20	23.3
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666	0	0.034	0	5000	0	0	0	35	20	23.3
667	0	0.034	0	5000	0	0	0	34.39	20	23.3
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669	0	0.034	0	5000	0	0	0	32.22	20	23.3
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671	0	0.034	0	5000	0	0	0	27.78	20	23.3
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702	0	0.034	0	5000	0	0	0	23.89	20	23.3
703	0	0.034	0	5000	0	0	0	25	20	23.3
704	0	0.034	0	5000	0	0	0	27.22	20	23.3

705	0	0.034	0	5000	0	0	0	30.61	20	23.3
706	0	0.034	0	5000	0	0	0	32.78	20	23.3
707	0	0.034	0	5000	0	0	0	33.89	20	23.3
708	0	0.034	0	5000	0	0	0	33.28	20	23.3
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714	0	0.034	0	5000	0	0	0	32.22	20	23.3
715	0	0.034	0	5000	0	0	0	31.72	20	23.3
716	0	0.034	0	5000	0	0	0	30	20	23.3
717	0	0.034	0	5000	0	0	0	28.89	20	23.3
718	0	0.034	0	5000	0	0	0	28.28	20	23.3
719	0	0.034	0	5000	0	0	0	27.78	20	23.3
720	0	0.034	0	5000	0	0	0	27.22	20	23.3

end*** END OF INPUT FILE 'ATMOSPH.IN' *****

Qf4

Pcp_File_Version=4

*** BLOCK I: ATMOSPHERIC INFORMATION *****

MaxAL (MaxAL = number of atmospheric data-records)

720

DailyVar SinusVar IDummy IDummy IDummy IDummy IDummy IDummy IDummy IDummy

f f f f f t f f f f

hCritS (max. allowed pressure head at the soil surface)

0

tAtm	Prec	rSoil	rRoot	hCritA	rB	hB	ht	tTop	tBot	Ampl	RootDepth
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3	0	0.034	0	5000	0	0	26.72	20	23.3		
4	0	0.034	0	5000	0	0	25.61	20	23.3		
5	0	0.034	0	5000	0	0	24.39	20	23.3		
6	0	0.034	0	5000	0	0	23.89	20	23.3		
7	0	0.034	0	5000	0	0	23.89	20	23.3		
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17	0	0.034	0	5000	0	0	24.39	20	23.3		
18	0	0.034	0	5000	0	0	22.78	20	23.3		
19	0	0.034	0	5000	0	0	22.78	20	23.3		
20	0	0.034	0	5000	0	0	22.22	20	23.3		
21	0	0.034	0	5000	0	0	22.78	20	23.3		
22	0	0.034	0	5000	0	0	22.22	20	23.3		
23	0	0.034	0	5000	0	0	22.78	20	23.3		
24	0	0.034	0	5000	0	0	22.22	20	23.3		

364

25	0	0.034	0	5000	0	0	0	21.72	20	23.3
26	0	0.034	0	5000	0	0	0	22.22	20	23.3
27	0	0.034	0	5000	0	0	0	21.72	20	23.3
28	0	0.034	0	5000	0	0	0	21.72	20	23.3
29	0	0.034	0	5000	0	0	0	21.11	20	23.3
30	0	0.034	0	5000	0	0	0	21.11	20	23.3
31	0	0.034	0	5000	0	0	0	22.22	20	23.3
32	0	0.034	0	5000	0	0	0	23.89	20	23.3
33	0	0.034	0	5000	0	0	0	25	20	23.3
34	0	0.034	0	5000	0	0	0	26.11	20	23.3
35	0	0.034	0	5000	0	0	0	27.78	20	23.3
36	0	0.034	0	5000	0	0	0	29.39	20	23.3
37	0	0.034	0	5000	0	0	0	30.61	20	23.3
38	0	0.034	0	5000	0	0	0	31.11	20	23.3
39	0	0.034	0	5000	0	0	0	32.22	20	23.3
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43	0	0.034	0	5000	0	0	0	31.11	20	23.3
44	0	0.034	0	5000	0	0	0	23.28	20	23.3
45	0	0.034	0	5000	0	0	0	25.61	20	23.3
46	0	0.034	0	5000	0	0	0	23.89	20	23.3
47	0	0.034	0	5000	0	0	0	24.39	20	23.3
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51	0	0.034	0	5000	0	0	0	22.78	20	23.3
52	0	0.034	0	5000	0	0	0	21.11	20	23.3
53	0	0.034	0	5000	0	0	0	21.11	20	23.3
54	0	0.034	0	5000	0	0	0	20.61	20	23.3
55	0	0.034	0	5000	0	0	0	21.72	20	23.3
56	0	0.034	0	5000	0	0	0	24.39	20	23.3
57	0	0.034	0	5000	0	0	0	26.11	20	23.3
58	0	0.034	0	5000	0	0	0	28.89	20	23.3

59	0	0.034	0	5000	0	0	0	30.61	20	23.3
60	0	0.034	0	5000	0	0	0	32.22	20	23.3
61	0	0.034	0	5000	0	0	0	33.28	20	23.3
62	0	0.034	0	5000	0	0	0	33.89	20	23.3
63	0	0.034	0	5000	0	0	0	35.61	20	23.3
64	0	0.034	0	5000	0	0	0	36.11	20	23.3
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67	0	0.034	0	5000	0	0	0	33.28	20	23.3
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73	0	0.034	0	5000	0	0	0	26.11	20	23.3
74	0	0.034	0	5000	0	0	0	25.61	20	23.3
75	0	0.034	0	5000	0	0	0	25	20	23.3
76	0	0.034	0	5000	0	0	0	23.28	20	23.3
77	0	0.034	0	5000	0	0	0	22.22	20	23.3
78	0	0.034	0	5000	0	0	0	20.61	20	23.3
79	0	0.034	0	5000	0	0	0	22.78	20	23.3
80	0	0.034	0	5000	0	0	0	26.72	20	23.3
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87	0	0.034	0	5000	0	0	0	36.72	20	23.3
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91	0	0.034	0	5000	0	0	0	36.72	20	23.3
92	0	0.034	0	5000	0	0	0	35.61	20	23.3

93	0	0.034	0	5000	0	0	0	33.89	20	23.3
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121	0	0.034	0	5000	0	0	0	27.78	20	23.3
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124	0	0.034	0	5000	0	0	0	23.89	20	23.3
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154	0	0.034	0	5000	0	0	0	26.11	20	23.3
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165	0	0.034	0	5000	0	0	0	29.39	20	23.3
166	0	0.034	0	5000	0	0	0	26.72	20	23.3
167	0	0.034	0	5000	0	0	0	26.72	20	23.3
168	0	0.034	0	5000	0	0	0	23.28	20	23.3
169	0	0.034	0	5000	0	0	0	23.89	20	23.3
170	0	0.034	0	5000	0	0	0	19.39	20	23.3
171	0	0.034	0	5000	0	0	0	17.78	20	23.3
172	0	0.034	0	5000	0	0	0	19.39	20	23.3
173	0	0.034	0	5000	0	0	0	17.22	20	23.3
174	0	0.034	0	5000	0	0	0	15.61	20	23.3
175	0	0.034	0	5000	0	0	0	17.78	20	23.3
176	0	0.034	0	5000	0	0	0	22.22	20	23.3
177	0	0.034	0	5000	0	0	0	25	20	23.3
178	0	0.034	0	5000	0	0	0	28.28	20	23.3
179	0	0.034	0	5000	0	0	0	31.72	20	23.3
180	0	0.034	0	5000	0	0	0	32.22	20	23.3
181	0	0.034	0	5000	0	0	0	33.28	20	23.3
182	0	0.034	0	5000	0	0	0	33.89	20	23.3
183	0	0.034	0	5000	0	0	0	34.39	20	23.3
184	0	0.034	0	5000	0	0	0	35	20	23.3
185	0	0.034	0	5000	0	0	0	35.61	20	23.3
186	0	0.034	0	5000	0	0	0	35	20	23.3
187	0	0.034	0	5000	0	0	0	33.89	20	23.3
188	0	0.034	0	5000	0	0	0	31.72	20	23.3
189	0	0.034	0	5000	0	0	0	30.61	20	23.3
190	0	0.034	0	5000	0	0	0	28.89	20	23.3
191	0	0.034	0	5000	0	0	0	25.61	20	23.3
192	0	0.034	0	5000	0	0	0	27.22	20	23.3
193	0	0.034	0	5000	0	0	0	22.22	20	23.3
194	0	0.034	0	5000	0	0	0	19.39	20	23.3

195	0	0.034	0	5000	0	0	0	20.61	20	23.3
196	0	0.034	0	5000	0	0	0	20	20	23.3
197	0	0.034	0	5000	0	0	0	18.89	20	23.3
198	0	0.034	0	5000	0	0	0	16.72	20	23.3
199	0	0.034	0	5000	0	0	0	19.39	20	23.3
200	0	0.034	0	5000	0	0	0	23.89	20	23.3
201	0	0.034	0	5000	0	0	0	26.72	20	23.3
202	0	0.034	0	5000	0	0	0	29.39	20	23.3
203	0	0.034	0	5000	0	0	0	32.22	20	23.3
204	0	0.034	0	5000	0	0	0	32.78	20	23.3
205	0	0.034	0	5000	0	0	0	33.28	20	23.3
206	0	0.034	0	5000	0	0	0	35	20	23.3
207	0	0.034	0	5000	0	0	0	36.72	20	23.3
208	0	0.034	0	5000	0	0	0	36.11	20	23.3
209	0	0.034	0	5000	0	0	0	36.11	20	23.3
210	0	0.034	0	5000	0	0	0	35.61	20	23.3
211	0	0.034	0	5000	0	0	0	33.89	20	23.3
212	0	0.034	0	5000	0	0	0	32.22	20	23.3
213	0	0.034	0	5000	0	0	0	30.61	20	23.3
214	0	0.034	0	5000	0	0	0	28.28	20	23.3
215	0	0.034	0	5000	0	0	0	24.39	20	23.3
216	0	0.034	0	5000	0	0	0	26.72	20	23.3
217	0	0.034	0	5000	0	0	0	24.39	20	23.3
218	0	0.034	0	5000	0	0	0	23.89	20	23.3
219	0	0.034	0	5000	0	0	0	21.11	20	23.3
220	0	0.034	0	5000	0	0	0	21.72	20	23.3
221	0	0.034	0	5000	0	0	0	20	20	23.3
222	0	0.034	0	5000	0	0	0	17.78	20	23.3
223	0	0.034	0	5000	0	0	0	19.39	20	23.3
224	0	0.034	0	5000	0	0	0	22.78	20	23.3
225	0	0.034	0	5000	0	0	0	26.11	20	23.3
226	0	0.034	0	5000	0	0	0	29.39	20	23.3
227	0	0.034	0	5000	0	0	0	32.22	20	23.3
228	0	0.034	0	5000	0	0	0	32.78	20	23.3

229	0	0.034	0	5000	0	0	0	33.89	20	23.3
230	0	0.034	0	5000	0	0	0	35	20	23.3
231	0	0.034	0	5000	0	0	0	35.61	20	23.3
232	0	0.034	0	5000	0	0	0	36.72	20	23.3
233	0	0.034	0	5000	0	0	0	37.22	20	23.3
234	0	0.034	0	5000	0	0	0	36.11	20	23.3
235	0	0.034	0	5000	0	0	0	35	20	23.3
236	0	0.034	0	5000	0	0	0	32.78	20	23.3
237	0	0.034	0	5000	0	0	0	30.61	20	23.3
238	0	0.034	0	5000	0	0	0	30	20	23.3
239	0	0.034	0	5000	0	0	0	27.22	20	23.3
240	0	0.034	0	5000	0	0	0	25	20	23.3
241	0	0.034	0	5000	0	0	0	25	20	23.3
242	0	0.034	0	5000	0	0	0	23.89	20	23.3
243	0	0.034	0	5000	0	0	0	22.22	20	23.3
244	0	0.034	0	5000	0	0	0	20	20	23.3
245	0	0.034	0	5000	0	0	0	20	20	23.3
246	0	0.034	0	5000	0	0	0	18.28	20	23.3
247	0	0.034	0	5000	0	0	0	20.61	20	23.3
248	0	0.034	0	5000	0	0	0	23.89	20	23.3
249	0	0.034	0	5000	0	0	0	27.22	20	23.3
250	0	0.034	0	5000	0	0	0	32.78	20	23.3
251	0	0.034	0	5000	0	0	0	33.28	20	23.3
252	0	0.034	0	5000	0	0	0	35.61	20	23.3
253	0	0.034	0	5000	0	0	0	35.61	20	23.3
254	0	0.034	0	5000	0	0	0	36.11	20	23.3
255	0	0.034	0	5000	0	0	0	36.72	20	23.3
256	0	0.034	0	5000	0	0	0	37.78	20	23.3
257	0	0.034	0	5000	0	0	0	37.78	20	23.3
258	0	0.034	0	5000	0	0	0	36.72	20	23.3
259	0	0.034	0	5000	0	0	0	35.61	20	23.3
260	0	0.034	0	5000	0	0	0	33.89	20	23.3
261	0	0.034	0	5000	0	0	0	32.78	20	23.3
262	0	0.034	0	5000	0	0	0	30	20	23.3

263	0	0.034	0	5000	0	0	0	29.39	20	23.3
264	0	0.034	0	5000	0	0	0	28.28	20	23.3
265	0	0.034	0	5000	0	0	0	27.78	20	23.3
266	0	0.034	0	5000	0	0	0	26.72	20	23.3
267	0	0.034	0	5000	0	0	0	24.39	20	23.3
268	0	0.034	0	5000	0	0	0	23.89	20	23.3
269	0	0.034	0	5000	0	0	0	22.22	20	23.3
270	0	0.034	0	5000	0	0	0	22.78	20	23.3
271	0	0.034	0	5000	0	0	0	24.39	20	23.3
272	0	0.034	0	5000	0	0	0	27.22	20	23.3
273	0	0.034	0	5000	0	0	0	30	20	23.3
274	0	0.034	0	5000	0	0	0	32.78	20	23.3
275	0	0.034	0	5000	0	0	0	33.89	20	23.3
276	0	0.034	0	5000	0	0	0	34.39	20	23.3
277	0	0.034	0	5000	0	0	0	35.61	20	23.3
278	0	0.034	0	5000	0	0	0	36.72	20	23.3
279	0	0.034	0	5000	0	0	0	37.22	20	23.3
280	0	0.034	0	5000	0	0	0	37.78	20	23.3
281	0	0.034	0	5000	0	0	0	37.78	20	23.3
282	0	0.034	0	5000	0	0	0	37.78	20	23.3
283	0	0.034	0	5000	0	0	0	36.72	20	23.3
284	0	0.034	0	5000	0	0	0	35	20	23.3
285	0	0.034	0	5000	0	0	0	33.89	20	23.3
286	0	0.034	0	5000	0	0	0	32.78	20	23.3
287	0	0.034	0	5000	0	0	0	31.11	20	23.3
288	0	0.034	0	5000	0	0	0	31.72	20	23.3
289	0	0.034	0	5000	0	0	0	27.78	20	23.3
290	0	0.034	0	5000	0	0	0	25	20	23.3
291	0	0.034	0	5000	0	0	0	25.61	20	23.3
292	0	0.034	0	5000	0	0	0	25.61	20	23.3
293	0	0.034	0	5000	0	0	0	23.89	20	23.3
294	0	0.034	0	5000	0	0	0	23.89	20	23.3
295	0	0.034	0	5000	0	0	0	23.89	20	23.3
296	0	0.034	0	5000	0	0	0	27.22	20	23.3

297	0	0.034	0	5000	0	0	0	30.61	20	23.3
298	0	0.034	0	5000	0	0	0	33.28	20	23.3
299	0	0.034	0	5000	0	0	0	35	20	23.3
300	0	0.034	0	5000	0	0	0	37.22	20	23.3
301	0	0.034	0	5000	0	0	0	38.28	20	23.3
302	0	0.034	0	5000	0	0	0	38.28	20	23.3
303	0	0.034	0	5000	0	0	0	38.28	20	23.3
304	0	0.034	0	5000	0	0	0	38.89	20	23.3
305	0	0.034	0	5000	0	0	0	38.89	20	23.3
306	0	0.034	0	5000	0	0	0	38.28	20	23.3
307	0	0.034	0	5000	0	0	0	37.22	20	23.3
308	0	0.034	0	5000	0	0	0	35	20	23.3
309	0	0.034	0	5000	0	0	0	34.39	20	23.3
310	0	0.034	0	5000	0	0	0	30.61	20	23.3
311	0	0.034	0	5000	0	0	0	30.61	20	23.3
312	0	0.034	0	5000	0	0	0	28.89	20	23.3
313	0	0.034	0	5000	0	0	0	26.72	20	23.3
314	0	0.034	0	5000	0	0	0	24.39	20	23.3
315	0	0.034	0	5000	0	0	0	25.61	20	23.3
316	0	0.034	0	5000	0	0	0	23.28	20	23.3
317	0	0.034	0	5000	0	0	0	21.72	20	23.3
318	0	0.034	0	5000	0	0	0	22.22	20	23.3
319	0	0.034	0	5000	0	0	0	23.28	20	23.3
320	0	0.034	0	5000	0	0	0	25.61	20	23.3
321	0	0.034	0	5000	0	0	0	32.22	20	23.3
322	0	0.034	0	5000	0	0	0	33.89	20	23.3
323	0	0.034	0	5000	0	0	0	36.11	20	23.3
324	0	0.034	0	5000	0	0	0	36.11	20	23.3
325	0	0.034	0	5000	0	0	0	36.72	20	23.3
326	0	0.034	0	5000	0	0	0	37.22	20	23.3
327	0	0.034	0	5000	0	0	0	37.78	20	23.3
328	0	0.034	0	5000	0	0	0	36.72	20	23.3
329	0	0.034	0	5000	0	0	0	37.22	20	23.3
330	0	0.034	0	5000	0	0	0	36.72	20	23.3

331	0	0.034	0	5000	0	0	0	35.61	20	23.3
332	0	0.034	0	5000	0	0	0	33.89	20	23.3
333	0	0.034	0	5000	0	0	0	32.22	20	23.3
334	0	0.034	0	5000	0	0	0	30.61	20	23.3
335	0	0.034	0	5000	0	0	0	28.89	20	23.3
336	0	0.034	0	5000	0	0	0	26.72	20	23.3
337	0	0.034	0	5000	0	0	0	25.61	20	23.3
338	0	0.034	0	5000	0	0	0	25	20	23.3
339	0	0.034	0	5000	0	0	0	24.39	20	23.3
340	0	0.034	0	5000	0	0	0	23.28	20	23.3
341	0	0.034	0	5000	0	0	0	23.28	20	23.3
342	0	0.034	0	5000	0	0	0	22.78	20	23.3
343	0	0.034	0	5000	0	0	0	22.22	20	23.3
344	0	0.034	0	5000	0	0	0	26.72	20	23.3
345	0	0.034	0	5000	0	0	0	28.89	20	23.3
346	0	0.034	0	5000	0	0	0	32.78	20	23.3
347	0	0.034	0	5000	0	0	0	34.39	20	23.3
348	0	0.034	0	5000	0	0	0	36.72	20	23.3
349	0	0.034	0	5000	0	0	0	36.72	20	23.3
350	0	0.034	0	5000	0	0	0	37.78	20	23.3
351	0	0.034	0	5000	0	0	0	36.72	20	23.3
352	0	0.034	0	5000	0	0	0	37.78	20	23.3
353	0	0.034	0	5000	0	0	0	37.78	20	23.3
354	0	0.034	0	5000	0	0	0	37.78	20	23.3
355	0	0.034	0	5000	0	0	0	36.72	20	23.3
356	0	0.034	0	5000	0	0	0	35	20	23.3
357	0	0.034	0	5000	0	0	0	33.28	20	23.3
358	0	0.034	0	5000	0	0	0	31.11	20	23.3
359	0	0.034	0	5000	0	0	0	30.61	20	23.3
360	0	0.034	0	5000	0	0	0	27.78	20	23.3
361	0	0.034	0	5000	0	0	0	27.78	20	23.3
362	0	0.034	0	5000	0	0	0	25.61	20	23.3
363	0	0.034	0	5000	0	0	0	23.28	20	23.3
364	0	0.034	0	5000	0	0	0	23.89	20	23.3

365	0	0.034	0	5000	0	0	0	24.39	20	23.3
366	0	0.034	0	5000	0	0	0	23.89	20	23.3
367	0	0.034	0	5000	0	0	0	23.89	20	23.3
368	0	0.034	0	5000	0	0	0	27.78	20	23.3
369	0	0.034	0	5000	0	0	0	31.11	20	23.3
370	0	0.034	0	5000	0	0	0	32.78	20	23.3
371	0	0.034	0	5000	0	0	0	36.11	20	23.3
372	0	0.034	0	5000	0	0	0	37.22	20	23.3
373	0	0.034	0	5000	0	0	0	36.11	20	23.3
374	0	0.034	0	5000	0	0	0	38.28	20	23.3
375	0	0.034	0	5000	0	0	0	37.78	20	23.3
376	0	0.034	0	5000	0	0	0	38.89	20	23.3
377	0	0.034	0	5000	0	0	0	38.28	20	23.3
378	0	0.034	0	5000	0	0	0	36.11	20	23.3
379	0	0.034	0	5000	0	0	0	36.72	20	23.3
380	0	0.034	0	5000	0	0	0	35	20	23.3
381	0	0.034	0	5000	0	0	0	33.89	20	23.3
382	0	0.034	0	5000	0	0	0	31.72	20	23.3
383	0	0.034	0	5000	0	0	0	30	20	23.3
384	0	0.034	0	5000	0	0	0	28.89	20	23.3
385	0	0.034	0	5000	0	0	0	29.39	20	23.3
386	0	0.034	0	5000	0	0	0	27.22	20	23.3
387	0	0.034	0	5000	0	0	0	26.11	20	23.3
388	0	0.034	0	5000	0	0	0	25	20	23.3
389	0	0.034	0	5000	0	0	0	25	20	23.3
390	0	0.034	0	5000	0	0	0	25	20	23.3
391	0	0.034	0	5000	0	0	0	24.39	20	23.3
392	0	0.034	0	5000	0	0	0	27.78	20	23.3
393	0	0.034	0	5000	0	0	0	32.78	20	23.3
394	0	0.034	0	5000	0	0	0	33.89	20	23.3
395	0	0.034	0	5000	0	0	0	35.61	20	23.3
396	0	0.034	0	5000	0	0	0	36.11	20	23.3
397	0	0.034	0	5000	0	0	0	35.61	20	23.3
398	0	0.034	0	5000	0	0	0	37.78	20	23.3

399	0	0.034	0	5000	0	0	0	38.28	20	23.3
400	0	0.034	0	5000	0	0	0	37.22	20	23.3
401	0	0.034	0	5000	0	0	0	36.72	20	23.3
402	0	0.034	0	5000	0	0	0	36.11	20	23.3
403	0	0.034	0	5000	0	0	0	32.78	20	23.3
404	0	0.034	0	5000	0	0	0	30	20	23.3
405	0	0.034	0	5000	0	0	0	28.28	20	23.3
406	0	0.034	0	5000	0	0	0	28.28	20	23.3
407	0	0.034	0	5000	0	0	0	29.39	20	23.3
408	0	0.034	0	5000	0	0	0	28.89	20	23.3
409	0	0.034	0	5000	0	0	0	28.89	20	23.3
410	0	0.034	0	5000	0	0	0	27.78	20	23.3
411	0	0.034	0	5000	0	0	0	28.28	20	23.3
412	0	0.034	0	5000	0	0	0	26.72	20	23.3
413	0	0.034	0	5000	0	0	0	26.72	20	23.3
414	0	0.034	0	5000	0	0	0	26.11	20	23.3
415	0	0.034	0	5000	0	0	0	26.11	20	23.3
416	0	0.034	0	5000	0	0	0	28.28	20	23.3
417	0	0.034	0	5000	0	0	0	31.11	20	23.3
418	0	0.034	0	5000	0	0	0	32.78	20	23.3
419	0	0.034	0	5000	0	0	0	33.89	20	23.3
420	0	0.034	0	5000	0	0	0	35.61	20	23.3
421	0	0.034	0	5000	0	0	0	35.61	20	23.3
422	0	0.034	0	5000	0	0	0	36.72	20	23.3
423	0	0.034	0	5000	0	0	0	37.78	20	23.3
424	0	0.034	0	5000	0	0	0	37.78	20	23.3
425	0	0.034	0	5000	0	0	0	37.78	20	23.3
426	0	0.034	0	5000	0	0	0	36.72	20	23.3
427	0	0.034	0	5000	0	0	0	35	20	23.3
428	0	0.034	0	5000	0	0	0	33.89	20	23.3
429	0	0.034	0	5000	0	0	0	33.28	20	23.3
430	0	0.034	0	5000	0	0	0	32.78	20	23.3
431	0	0.034	0	5000	0	0	0	30	20	23.3
432	0	0.034	0	5000	0	0	0	31.11	20	23.3

433	0	0.034	0	5000	0	0	0	30	20	23.3
434	0	0.034	0	5000	0	0	0	28.28	20	23.3
435	0	0.034	0	5000	0	0	0	30	20	23.3
436	0	0.034	0	5000	0	0	0	27.78	20	23.3
437	0	0.034	0	5000	0	0	0	27.78	20	23.3
438	0	0.034	0	5000	0	0	0	29.39	20	23.3
439	0	0.034	0	5000	0	0	0	26.72	20	23.3
440	0	0.034	0	5000	0	0	0	29.39	20	23.3
441	0	0.034	0	5000	0	0	0	31.11	20	23.3
442	0	0.034	0	5000	0	0	0	33.89	20	23.3
443	0	0.034	0	5000	0	0	0	35	20	23.3
444	0	0.034	0	5000	0	0	0	36.11	20	23.3
445	0	0.034	0	5000	0	0	0	36.72	20	23.3
446	0	0.034	0	5000	0	0	0	37.78	20	23.3
447	0	0.034	0	5000	0	0	0	37.22	20	23.3
448	0	0.034	0	5000	0	0	0	37.22	20	23.3
449	0	0.034	0	5000	0	0	0	37.22	20	23.3
450	0	0.034	0	5000	0	0	0	36.11	20	23.3
451	0	0.034	0	5000	0	0	0	35	20	23.3
452	0	0.034	0	5000	0	0	0	33.28	20	23.3
453	0	0.034	0	5000	0	0	0	32.78	20	23.3
454	0	0.034	0	5000	0	0	0	29.39	20	23.3
455	0	0.034	0	5000	0	0	0	28.89	20	23.3
456	0	0.034	0	5000	0	0	0	27.22	20	23.3
457	0	0.034	0	5000	0	0	0	23.89	20	23.3
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459	0	0.034	0	5000	0	0	0	21.72	20	23.3
460	0	0.034	0	5000	0	0	0	21.11	20	23.3
461	0	0.034	0	5000	0	0	0	18.89	20	23.3
462	0	0.034	0	5000	0	0	0	19.39	20	23.3
463	0	0.034	0	5000	0	0	0	20	20	23.3
464	0	0.034	0	5000	0	0	0	23.89	20	23.3
465	0	0.034	0	5000	0	0	0	28.28	20	23.3
466	0	0.034	0	5000	0	0	0	29.39	20	23.3

467	0	0.034	0	5000	0	0	0	31.11	20	23.3
468	0	0.034	0	5000	0	0	0	32.78	20	23.3
469	0	0.034	0	5000	0	0	0	33.28	20	23.3
470	0	0.034	0	5000	0	0	0	35	20	23.3
471	0	0.034	0	5000	0	0	0	36.11	20	23.3
472	0	0.034	0	5000	0	0	0	36.72	20	23.3
473	0	0.034	0	5000	0	0	0	36.72	20	23.3
474	0	0.034	0	5000	0	0	0	36.72	20	23.3
475	0	0.034	0	5000	0	0	0	35.61	20	23.3
476	0	0.034	0	5000	0	0	0	31.72	20	23.3
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478	0	0.034	0	5000	0	0	0	26.11	20	23.3
479	0	0.034	0	5000	0	0	0	25.61	20	23.3
480	0	0.034	0	5000	0	0	0	21.11	20	23.3
481	0	0.034	0	5000	0	0	0	21.72	20	23.3
482	0	0.034	0	5000	0	0	0	20	20	23.3
483	0	0.034	0	5000	0	0	0	17.22	20	23.3
484	0	0.034	0	5000	0	0	0	17.78	20	23.3
485	0	0.034	0	5000	0	0	0	17.22	20	23.3
486	0	0.034	0	5000	0	0	0	17.22	20	23.3
487	0	0.034	0	5000	0	0	0	18.28	20	23.3
488	0	0.034	0	5000	0	0	0	22.78	20	23.3
489	0	0.034	0	5000	0	0	0	26.11	20	23.3
490	0	0.034	0	5000	0	0	0	30.61	20	23.3
491	0	0.034	0	5000	0	0	0	33.28	20	23.3
492	0	0.034	0	5000	0	0	0	34.39	20	23.3
493	0	0.034	0	5000	0	0	0	35.61	20	23.3
494	0	0.034	0	5000	0	0	0	37.78	20	23.3
495	0	0.034	0	5000	0	0	0	38.28	20	23.3
496	0	0.034	0	5000	0	0	0	38.28	20	23.3
497	0	0.034	0	5000	0	0	0	38.89	20	23.3
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499	0	0.034	0	5000	0	0	0	36.72	20	23.3
500	0	0.034	0	5000	0	0	0	34.39	20	23.3

501	0	0.034	0	5000	0	0	0	31.11	20	23.3
502	0	0.034	0	5000	0	0	0	29.39	20	23.3
503	0	0.034	0	5000	0	0	0	26.72	20	23.3
504	0	0.034	0	5000	0	0	0	25	20	23.3
505	0	0.034	0	5000	0	0	0	22.78	20	23.3
506	0	0.034	0	5000	0	0	0	22.22	20	23.3
507	0	0.034	0	5000	0	0	0	21.72	20	23.3
508	0	0.034	0	5000	0	0	0	19.39	20	23.3
509	0	0.034	0	5000	0	0	0	18.89	20	23.3
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513	0	0.034	0	5000	0	0	0	27.22	20	23.3
514	0	0.034	0	5000	0	0	0	31.11	20	23.3
515	0	0.034	0	5000	0	0	0	33.89	20	23.3
516	0	0.034	0	5000	0	0	0	35	20	23.3
517	0	0.034	0	5000	0	0	0	36.72	20	23.3
518	0	0.034	0	5000	0	0	0	38.28	20	23.3
519	0	0.034	0	5000	0	0	0	37.78	20	23.3
520	0	0.034	0	5000	0	0	0	38.28	20	23.3
521	0	0.034	0	5000	0	0	0	38.89	20	23.3
522	0	0.034	0	5000	0	0	0	37.78	20	23.3
523	0	0.034	0	5000	0	0	0	36.72	20	23.3
524	0	0.034	0	5000	0	0	0	35	20	23.3
525	0	0.034	0	5000	0	0	0	31.11	20	23.3
526	0	0.034	0	5000	0	0	0	30	20	23.3
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532	0	0.034	0	5000	0	0	0	20.61	20	23.3
533	0	0.034	0	5000	0	0	0	21.11	20	23.3
534	0	0.034	0	5000	0	0	0	21.72	20	23.3

535	0	0.034	0	5000	0	0	0	21.11	20	23.3
536	0	0.034	0	5000	0	0	0	26.11	20	23.3
537	0	0.034	0	5000	0	0	0	27.78	20	23.3
538	0	0.034	0	5000	0	0	0	30	20	23.3
539	0	0.034	0	5000	0	0	0	31.72	20	23.3
540	0	0.034	0	5000	0	0	0	33.28	20	23.3
541	0	0.034	0	5000	0	0	0	34.39	20	23.3
542	0	0.034	0	5000	0	0	0	36.11	20	23.3
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546	0	0.034	0	5000	0	0	0	37.22	20	23.3
547	0	0.034	0	5000	0	0	0	36.11	20	23.3
548	0	0.034	0	5000	0	0	0	33.89	20	23.3
549	0	0.034	0	5000	0	0	0	33.28	20	23.3
550	0	0.034	0	5000	0	0	0	30	20	23.3
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552	0	0.034	0	5000	0	0	0	24.39	20	23.3
553	0	0.034	0	5000	0	0	0	24.39	20	23.3
554	0	0.034	0	5000	0	0	0	25	20	23.3
555	0	0.034	0	5000	0	0	0	22.22	20	23.3
556	0	0.034	0	5000	0	0	0	21.72	20	23.3
557	0	0.034	0	5000	0	0	0	20	20	23.3
558	0	0.034	0	5000	0	0	0	18.89	20	23.3
559	0	0.034	0	5000	0	0	0	20	20	23.3
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561	0	0.034	0	5000	0	0	0	28.89	20	23.3
562	0	0.034	0	5000	0	0	0	31.72	20	23.3
563	0	0.034	0	5000	0	0	0	33.89	20	23.3
564	0	0.034	0	5000	0	0	0	35.61	20	23.3
565	0	0.034	0	5000	0	0	0	37.22	20	23.3
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567	0	0.034	0	5000	0	0	0	37.22	20	23.3
568	0	0.034	0	5000	0	0	0	38.28	20	23.3

569	0	0.034	0	5000	0	0	0	38.28	20	23.3
570	0	0.034	0	5000	0	0	0	37.78	20	23.3
571	0	0.034	0	5000	0	0	0	36.72	20	23.3
572	0	0.034	0	5000	0	0	0	33.28	20	23.3
573	0	0.034	0	5000	0	0	0	32.22	20	23.3
574	0	0.034	0	5000	0	0	0	30	20	23.3
575	0	0.034	0	5000	0	0	0	27.78	20	23.3
576	0	0.034	0	5000	0	0	0	27.22	20	23.3
577	0	0.034	0	5000	0	0	0	25.61	20	23.3
578	0	0.034	0	5000	0	0	0	27.22	20	23.3
579	0	0.034	0	5000	0	0	0	23.89	20	23.3
580	0	0.034	0	5000	0	0	0	21.72	20	23.3
581	0	0.034	0	5000	0	0	0	22.22	20	23.3
582	0	0.034	0	5000	0	0	0	21.11	20	23.3
583	0	0.034	0	5000	0	0	0	23.28	20	23.3
584	0	0.034	0	5000	0	0	0	26.11	20	23.3
585	0	0.034	0	5000	0	0	0	29.39	20	23.3
586	0	0.034	0	5000	0	0	0	33.89	20	23.3
587	0	0.034	0	5000	0	0	0	35	20	23.3
588	0	0.034	0	5000	0	0	0	36.11	20	23.3
589	0	0.034	0	5000	0	0	0	36.72	20	23.3
590	0	0.034	0	5000	0	0	0	37.78	20	23.3
591	0	0.034	0	5000	0	0	0	35.61	20	23.3
592	0	0.034	0	5000	0	0	0	34.39	20	23.3
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594	0	0.034	0	5000	0	0	0	32.22	20	23.3
595	0	0.034	0	5000	0	0	0	31.72	20	23.3
596	0	0.034	0	5000	0	0	0	30	20	23.3
597	0	0.034	0	5000	0	0	0	28.89	20	23.3
598	0	0.034	0	5000	0	0	0	28.89	20	23.3
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600	0	0.034	0	5000	0	0	0	26.11	20	23.3
601	0	0.034	0	5000	0	0	0	26.11	20	23.3
602	0	0.034	0	5000	0	0	0	23.28	20	23.3

603	0	0.034	0	5000	0	0	0	23.89	20	23.3
604	0	0.034	0	5000	0	0	0	21.72	20	23.3
605	0	0.034	0	5000	0	0	0	21.72	20	23.3
606	0	0.034	0	5000	0	0	0	21.11	20	23.3
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618	0	0.034	0	5000	0	0	0	28.89	20	23.3
619	0	0.034	0	5000	0	0	0	28.89	20	23.3
620	0	0.034	0	5000	0	0	0	27.78	20	23.3
621	0	0.034	0	5000	0	0	0	25.61	20	23.3
622	0	0.034	0	5000	0	0	0	25.61	20	23.3
623	0	0.034	0	5000	0	0	0	25.61	20	23.3
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625	0	0.034	0	5000	0	0	0	24.39	20	23.3
626	0	0.034	0	5000	0	0	0	22.78	20	23.3
627	0	0.034	0	5000	0	0	0	23.28	20	23.3
628	0	0.034	0	5000	0	0	0	23.28	20	23.3
629	0	0.034	0	5000	0	0	0	23.89	20	23.3
630	0	0.034	0	5000	0	0	0	22.78	20	23.3
631	0	0.034	0	5000	0	0	0	21.72	20	23.3
632	0	0.034	0	5000	0	0	0	23.28	20	23.3
633	0	0.034	0	5000	0	0	0	23.89	20	23.3
634	0	0.034	0	5000	0	0	0	25.61	20	23.3
635	0	0.034	0	5000	0	0	0	27.78	20	23.3
636	0	0.034	0	5000	0	0	0	28.28	20	23.3

637	0	0.034	0	5000	0	0	0	30.61	20	23.3
638	0	0.034	0	5000	0	0	0	31.11	20	23.3
639	0	0.034	0	5000	0	0	0	31.72	20	23.3
640	0	0.034	0	5000	0	0	0	32.22	20	23.3
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643	0	0.034	0	5000	0	0	0	31.11	20	23.3
644	0	0.034	0	5000	0	0	0	29.39	20	23.3
645	0	0.034	0	5000	0	0	0	28.28	20	23.3
646	0	0.034	0	5000	0	0	0	27.22	20	23.3
647	0	0.034	0	5000	0	0	0	26.72	20	23.3
648	0	0.034	0	5000	0	0	0	26.11	20	23.3
649	0	0.034	0	5000	0	0	0	25.61	20	23.3
650	0	0.034	0	5000	0	0	0	22.22	20	23.3
651	0	0.034	0	5000	0	0	0	23.28	20	23.3
652	0	0.034	0	5000	0	0	0	21.72	20	23.3
653	0	0.034	0	5000	0	0	0	21.11	20	23.3
654	0	0.034	0	5000	0	0	0	21.72	20	23.3
655	0	0.034	0	5000	0	0	0	21.72	20	23.3
656	0	0.034	0	5000	0	0	0	25	20	23.3
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662	0	0.034	0	5000	0	0	0	33.89	20	23.3
663	0	0.034	0	5000	0	0	0	35	20	23.3
664	0	0.034	0	5000	0	0	0	36.11	20	23.3
665	0	0.034	0	5000	0	0	0	35.61	20	23.3
666	0	0.034	0	5000	0	0	0	35	20	23.3
667	0	0.034	0	5000	0	0	0	34.39	20	23.3
668	0	0.034	0	5000	0	0	0	33.28	20	23.3
669	0	0.034	0	5000	0	0	0	32.22	20	23.3
670	0	0.034	0	5000	0	0	0	31.11	20	23.3

671	0	0.034	0	5000	0	0	0	27.78	20	23.3
672	0	0.034	0	5000	0	0	0	28.89	20	23.3
673	0	0.034	0	5000	0	0	0	29.39	20	23.3
674	0	0.034	0	5000	0	0	0	27.78	20	23.3
675	0	0.034	0	5000	0	0	0	24.39	20	23.3
676	0	0.034	0	5000	0	0	0	23.89	20	23.3
677	0	0.034	0	5000	0	0	0	22.78	20	23.3
678	0	0.034	0	5000	0	0	0	21.72	20	23.3
679	0	0.034	0	5000	0	0	0	22.78	20	23.3
680	0	0.034	0	5000	0	0	0	26.11	20	23.3
681	0	0.034	0	5000	0	0	0	28.89	20	23.3
682	0	0.034	0	5000	0	0	0	31.11	20	23.3
683	0	0.034	0	5000	0	0	0	33.28	20	23.3
684	0	0.034	0	5000	0	0	0	35	20	23.3
685	0	0.034	0	5000	0	0	0	36.72	20	23.3
686	0	0.034	0	5000	0	0	0	37.22	20	23.3
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688	0	0.034	0	5000	0	0	0	37.78	20	23.3
689	0	0.034	0	5000	0	0	0	37.22	20	23.3
690	0	0.034	0	5000	0	0	0	37.22	20	23.3
691	0	0.034	0	5000	0	0	0	36.11	20	23.3
692	0	0.034	0	5000	0	0	0	34.39	20	23.3
693	0	0.034	0	5000	0	0	0	33.28	20	23.3
694	0	0.034	0	5000	0	0	0	30.61	20	23.3
695	0	0.034	0	5000	0	0	0	31.11	20	23.3
696	0	0.034	0	5000	0	0	0	28.28	20	23.3
697	0	0.034	0	5000	0	0	0	26.11	20	23.3
698	0	0.034	0	5000	0	0	0	27.78	20	23.3
699	0	0.034	0	5000	0	0	0	24.39	20	23.3
700	0	0.034	0	5000	0	0	0	25.61	20	23.3
701	0	0.034	0	5000	0	0	0	24.39	20	23.3
702	0	0.034	0	5000	0	0	0	23.89	20	23.3
703	0	0.034	0	5000	0	0	0	25	20	23.3
704	0	0.034	0	5000	0	0	0	27.22	20	23.3

705	0	0.034	0	5000	0	0	0	30.61	20	23.3
706	0	0.034	0	5000	0	0	0	32.78	20	23.3
707	0	0.034	0	5000	0	0	0	33.89	20	23.3
708	0	0.034	0	5000	0	0	0	33.28	20	23.3
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711	0	0.034	0	5000	0	0	0	32.22	20	23.3
712	0	0.034	0	5000	0	0	0	31.72	20	23.3
713	0	0.034	0	5000	0	0	0	31.72	20	23.3
714	0	0.034	0	5000	0	0	0	32.22	20	23.3
715	0	0.034	0	5000	0	0	0	31.72	20	23.3
716	0	0.034	0	5000	0	0	0	30	20	23.3
717	0	0.034	0	5000	0	0	0	28.89	20	23.3
718	0	0.034	0	5000	0	0	0	28.28	20	23.3
719	0	0.034	0	5000	0	0	0	27.78	20	23.3
720	0	0.034	0	5000	0	0	0	27.22	20	23.3

end*** END OF INPUT FILE 'ATMOSPH.IN' *****

385

Qf5

Pcp_File_Version=4

*** BLOCK I: ATMOSPHERIC INFORMATION *****

MaxAL (MaxAL = number of atmospheric data-records)

720

DailyVar SinusVar IDummy IDummy IDummy IDummy IDummy IDummy IDummy IDummy

f f f f f t f f f f

hCritS (max. allowed pressure head at the soil surface)

0

tAtm	Prec	rSoil	rRoot	hCritA	rB	hB	ht	tTop	tBot	Ampl	RootDepth
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2	0	0.034	0	5000	0	0	26.72	20	23.3		
3	0	0.034	0	5000	0	0	26.72	20	23.3		
4	0	0.034	0	5000	0	0	25.61	20	23.3		
5	0	0.034	0	5000	0	0	24.39	20	23.3		
6	0	0.034	0	5000	0	0	23.89	20	23.3		
7	0	0.034	0	5000	0	0	23.89	20	23.3		
8	0	0.034	0	5000	0	0	23.28	20	23.3		
9	0	0.034	0	5000	0	0	25	20	23.3		
10	0	0.034	0	5000	0	0	23.89	20	23.3		
11	0	0.034	0	5000	0	0	21.72	20	23.3		
12	0	0.034	0	5000	0	0	21.11	20	23.3		
13	0	0.034	0	5000	0	0	21.72	20	23.3		
14	0	0.034	0	5000	0	0	22.78	20	23.3		
15	0	0.034	0	5000	0	0	23.89	20	23.3		
16	0	0.034	0	5000	0	0	25.61	20	23.3		
17	0	0.034	0	5000	0	0	24.39	20	23.3		
18	0	0.034	0	5000	0	0	22.78	20	23.3		
19	0	0.034	0	5000	0	0	22.78	20	23.3		
20	0	0.034	0	5000	0	0	22.22	20	23.3		
21	0	0.034	0	5000	0	0	22.78	20	23.3		
22	0	0.034	0	5000	0	0	22.22	20	23.3		
23	0	0.034	0	5000	0	0	22.78	20	23.3		
24	0	0.034	0	5000	0	0	22.22	20	23.3		

386

25	0	0.034	0	5000	0	0	0	21.72	20	23.3
26	0	0.034	0	5000	0	0	0	22.22	20	23.3
27	0	0.034	0	5000	0	0	0	21.72	20	23.3
28	0	0.034	0	5000	0	0	0	21.72	20	23.3
29	0	0.034	0	5000	0	0	0	21.11	20	23.3
30	0	0.034	0	5000	0	0	0	21.11	20	23.3
31	0	0.034	0	5000	0	0	0	22.22	20	23.3
32	0	0.034	0	5000	0	0	0	23.89	20	23.3
33	0	0.034	0	5000	0	0	0	25	20	23.3
34	0	0.034	0	5000	0	0	0	26.11	20	23.3
35	0	0.034	0	5000	0	0	0	27.78	20	23.3
36	0	0.034	0	5000	0	0	0	29.39	20	23.3
37	0	0.034	0	5000	0	0	0	30.61	20	23.3
38	0	0.034	0	5000	0	0	0	31.11	20	23.3
39	0	0.034	0	5000	0	0	0	32.22	20	23.3
40	0	0.034	0	5000	0	0	0	31.72	20	23.3
41	0	0.034	0	5000	0	0	0	31.72	20	23.3
42	0	0.034	0	5000	0	0	0	32.22	20	23.3
43	0	0.034	0	5000	0	0	0	31.11	20	23.3
44	0	0.034	0	5000	0	0	0	23.28	20	23.3
45	0	0.034	0	5000	0	0	0	25.61	20	23.3
46	0	0.034	0	5000	0	0	0	23.89	20	23.3
47	0	0.034	0	5000	0	0	0	24.39	20	23.3
48	0	0.034	0	5000	0	0	0	23.28	20	23.3
49	0	0.034	0	5000	0	0	0	22.78	20	23.3
50	0	0.034	0	5000	0	0	0	22.78	20	23.3
51	0	0.034	0	5000	0	0	0	22.78	20	23.3
52	0	0.034	0	5000	0	0	0	21.11	20	23.3
53	0	0.034	0	5000	0	0	0	21.11	20	23.3
54	0	0.034	0	5000	0	0	0	20.61	20	23.3
55	0	0.034	0	5000	0	0	0	21.72	20	23.3
56	0	0.034	0	5000	0	0	0	24.39	20	23.3
57	0	0.034	0	5000	0	0	0	26.11	20	23.3
58	0	0.034	0	5000	0	0	0	28.89	20	23.3

59	0	0.034	0	5000	0	0	0	30.61	20	23.3
60	0	0.034	0	5000	0	0	0	32.22	20	23.3
61	0	0.034	0	5000	0	0	0	33.28	20	23.3
62	0	0.034	0	5000	0	0	0	33.89	20	23.3
63	0	0.034	0	5000	0	0	0	35.61	20	23.3
64	0	0.034	0	5000	0	0	0	36.11	20	23.3
65	0	0.034	0	5000	0	0	0	36.72	20	23.3
66	0	0.034	0	5000	0	0	0	36.11	20	23.3
67	0	0.034	0	5000	0	0	0	33.28	20	23.3
68	0	0.034	0	5000	0	0	0	31.72	20	23.3
69	0	0.034	0	5000	0	0	0	30.61	20	23.3
70	0	0.034	0	5000	0	0	0	28.28	20	23.3
71	0	0.034	0	5000	0	0	0	28.28	20	23.3
72	0	0.034	0	5000	0	0	0	26.11	20	23.3
73	0	0.034	0	5000	0	0	0	26.11	20	23.3
74	0	0.034	0	5000	0	0	0	25.61	20	23.3
75	0	0.034	0	5000	0	0	0	25	20	23.3
76	0	0.034	0	5000	0	0	0	23.28	20	23.3
77	0	0.034	0	5000	0	0	0	22.22	20	23.3
78	0	0.034	0	5000	0	0	0	20.61	20	23.3
79	0	0.034	0	5000	0	0	0	22.78	20	23.3
80	0	0.034	0	5000	0	0	0	26.72	20	23.3
81	0	0.034	0	5000	0	0	0	28.89	20	23.3
82	0	0.034	0	5000	0	0	0	32.22	20	23.3
83	0	0.034	0	5000	0	0	0	35	20	23.3
84	0	0.034	0	5000	0	0	0	35.61	20	23.3
85	0	0.034	0	5000	0	0	0	37.22	20	23.3
86	0	0.034	0	5000	0	0	0	37.22	20	23.3
87	0	0.034	0	5000	0	0	0	36.72	20	23.3
88	0	0.034	0	5000	0	0	0	37.22	20	23.3
89	0	0.034	0	5000	0	0	0	37.78	20	23.3
90	0	0.034	0	5000	0	0	0	37.22	20	23.3
91	0	0.034	0	5000	0	0	0	36.72	20	23.3
92	0	0.034	0	5000	0	0	0	35.61	20	23.3

93	0	0.034	0	5000	0	0	0	33.89	20	23.3
94	0	0.034	0	5000	0	0	0	32.22	20	23.3
95	0	0.034	0	5000	0	0	0	31.72	20	23.3
96	0	0.034	0	5000	0	0	0	31.72	20	23.3
97	0	0.034	0	5000	0	0	0	31.11	20	23.3
98	0	0.034	0	5000	0	0	0	28.89	20	23.3
99	0	0.034	0	5000	0	0	0	28.28	20	23.3
100	0	0.034	0	5000	0	0	0	27.22	20	23.3
101	0	0.034	0	5000	0	0	0	25.61	20	23.3
102	0	0.034	0	5000	0	0	0	23.89	20	23.3
103	0	0.034	0	5000	0	0	0	26.11	20	23.3
104	0	0.034	0	5000	0	0	0	28.28	20	23.3
105	0	0.034	0	5000	0	0	0	31.11	20	23.3
106	0	0.034	0	5000	0	0	0	33.89	20	23.3
107	0	0.034	0	5000	0	0	0	34.39	20	23.3
108	0	0.034	0	5000	0	0	0	35.61	20	23.3
109	0	0.034	0	5000	0	0	0	36.11	20	23.3
110	0	0.034	0	5000	0	0	0	35.61	20	23.3
111	0	0.034	0	5000	0	0	0	36.11	20	23.3
112	0	0.034	0	5000	0	0	0	36.72	20	23.3
113	0	0.034	0	5000	0	0	0	36.11	20	23.3
114	0	0.034	0	5000	0	0	0	35.61	20	23.3
115	0	0.034	0	5000	0	0	0	34.39	20	23.3
116	0	0.034	0	5000	0	0	0	32.78	20	23.3
117	0	0.034	0	5000	0	0	0	31.11	20	23.3
118	0	0.034	0	5000	0	0	0	30.61	20	23.3
119	0	0.034	0	5000	0	0	0	30	20	23.3
120	0	0.034	0	5000	0	0	0	28.89	20	23.3
121	0	0.034	0	5000	0	0	0	27.78	20	23.3
122	0	0.034	0	5000	0	0	0	25.61	20	23.3
123	0	0.034	0	5000	0	0	0	23.28	20	23.3
124	0	0.034	0	5000	0	0	0	23.89	20	23.3
125	0	0.034	0	5000	0	0	0	23.28	20	23.3
126	0	0.034	0	5000	0	0	0	22.78	20	23.3

127	0	0.034	0	5000	0	0	0	22.78	20	23.3
128	0	0.034	0	5000	0	0	0	24.39	20	23.3
129	0	0.034	0	5000	0	0	0	27.22	20	23.3
130	0	0.034	0	5000	0	0	0	29.39	20	23.3
131	0	0.034	0	5000	0	0	0	31.11	20	23.3
132	0	0.034	0	5000	0	0	0	32.22	20	23.3
133	0	0.034	0	5000	0	0	0	33.28	20	23.3
134	0	0.034	0	5000	0	0	0	33.89	20	23.3
135	0	0.034	0	5000	0	0	0	33.89	20	23.3
136	0	0.034	0	5000	0	0	0	33.89	20	23.3
137	0	0.034	0	5000	0	0	0	33.89	20	23.3
138	0	0.034	0	5000	0	0	0	33.89	20	23.3
139	0	0.034	0	5000	0	0	0	32.78	20	23.3
140	0	0.034	0	5000	0	0	0	30.61	20	23.3
141	0	0.034	0	5000	0	0	0	28.89	20	23.3
142	0	0.034	0	5000	0	0	0	25.61	20	23.3
143	0	0.034	0	5000	0	0	0	22.78	20	23.3
144	0	0.034	0	5000	0	0	0	22.78	20	23.3
145	0	0.034	0	5000	0	0	0	22.78	20	23.3
146	0	0.034	0	5000	0	0	0	21.11	20	23.3
147	0	0.034	0	5000	0	0	0	20.61	20	23.3
148	0	0.034	0	5000	0	0	0	18.28	20	23.3
149	0	0.034	0	5000	0	0	0	16.72	20	23.3
150	0	0.034	0	5000	0	0	0	16.72	20	23.3
151	0	0.034	0	5000	0	0	0	17.78	20	23.3
152	0	0.034	0	5000	0	0	0	21.72	20	23.3
153	0	0.034	0	5000	0	0	0	24.39	20	23.3
154	0	0.034	0	5000	0	0	0	26.11	20	23.3
155	0	0.034	0	5000	0	0	0	28.28	20	23.3
156	0	0.034	0	5000	0	0	0	28.89	20	23.3
157	0	0.034	0	5000	0	0	0	31.11	20	23.3
158	0	0.034	0	5000	0	0	0	32.78	20	23.3
159	0	0.034	0	5000	0	0	0	33.89	20	23.3
160	0	0.034	0	5000	0	0	0	33.89	20	23.3

161	0	0.034	0	5000	0	0	0	33.89	20	23.3
162	0	0.034	0	5000	0	0	0	33.89	20	23.3
163	0	0.034	0	5000	0	0	0	32.78	20	23.3
164	0	0.034	0	5000	0	0	0	30.61	20	23.3
165	0	0.034	0	5000	0	0	0	29.39	20	23.3
166	0	0.034	0	5000	0	0	0	26.72	20	23.3
167	0	0.034	0	5000	0	0	0	26.72	20	23.3
168	0	0.034	0	5000	0	0	0	23.28	20	23.3
169	0	0.034	0	5000	0	0	0	23.89	20	23.3
170	0	0.034	0	5000	0	0	0	19.39	20	23.3
171	0	0.034	0	5000	0	0	0	17.78	20	23.3
172	0	0.034	0	5000	0	0	0	19.39	20	23.3
173	0	0.034	0	5000	0	0	0	17.22	20	23.3
174	0	0.034	0	5000	0	0	0	15.61	20	23.3
175	0	0.034	0	5000	0	0	0	17.78	20	23.3
176	0	0.034	0	5000	0	0	0	22.22	20	23.3
177	0	0.034	0	5000	0	0	0	25	20	23.3
178	0	0.034	0	5000	0	0	0	28.28	20	23.3
179	0	0.034	0	5000	0	0	0	31.72	20	23.3
180	0	0.034	0	5000	0	0	0	32.22	20	23.3
181	0	0.034	0	5000	0	0	0	33.28	20	23.3
182	0	0.034	0	5000	0	0	0	33.89	20	23.3
183	0	0.034	0	5000	0	0	0	34.39	20	23.3
184	0	0.034	0	5000	0	0	0	35	20	23.3
185	0	0.034	0	5000	0	0	0	35.61	20	23.3
186	0	0.034	0	5000	0	0	0	35	20	23.3
187	0	0.034	0	5000	0	0	0	33.89	20	23.3
188	0	0.034	0	5000	0	0	0	31.72	20	23.3
189	0	0.034	0	5000	0	0	0	30.61	20	23.3
190	0	0.034	0	5000	0	0	0	28.89	20	23.3
191	0	0.034	0	5000	0	0	0	25.61	20	23.3
192	0	0.034	0	5000	0	0	0	27.22	20	23.3
193	0	0.034	0	5000	0	0	0	22.22	20	23.3
194	0	0.034	0	5000	0	0	0	19.39	20	23.3

195	0	0.034	0	5000	0	0	0	20.61	20	23.3
196	0	0.034	0	5000	0	0	0	20	20	23.3
197	0	0.034	0	5000	0	0	0	18.89	20	23.3
198	0	0.034	0	5000	0	0	0	16.72	20	23.3
199	0	0.034	0	5000	0	0	0	19.39	20	23.3
200	0	0.034	0	5000	0	0	0	23.89	20	23.3
201	0	0.034	0	5000	0	0	0	26.72	20	23.3
202	0	0.034	0	5000	0	0	0	29.39	20	23.3
203	0	0.034	0	5000	0	0	0	32.22	20	23.3
204	0	0.034	0	5000	0	0	0	32.78	20	23.3
205	0	0.034	0	5000	0	0	0	33.28	20	23.3
206	0	0.034	0	5000	0	0	0	35	20	23.3
207	0	0.034	0	5000	0	0	0	36.72	20	23.3
208	0	0.034	0	5000	0	0	0	36.11	20	23.3
209	0	0.034	0	5000	0	0	0	36.11	20	23.3
210	0	0.034	0	5000	0	0	0	35.61	20	23.3
211	0	0.034	0	5000	0	0	0	33.89	20	23.3
212	0	0.034	0	5000	0	0	0	32.22	20	23.3
213	0	0.034	0	5000	0	0	0	30.61	20	23.3
214	0	0.034	0	5000	0	0	0	28.28	20	23.3
215	0	0.034	0	5000	0	0	0	24.39	20	23.3
216	0	0.034	0	5000	0	0	0	26.72	20	23.3
217	0	0.034	0	5000	0	0	0	24.39	20	23.3
218	0	0.034	0	5000	0	0	0	23.89	20	23.3
219	0	0.034	0	5000	0	0	0	21.11	20	23.3
220	0	0.034	0	5000	0	0	0	21.72	20	23.3
221	0	0.034	0	5000	0	0	0	20	20	23.3
222	0	0.034	0	5000	0	0	0	17.78	20	23.3
223	0	0.034	0	5000	0	0	0	19.39	20	23.3
224	0	0.034	0	5000	0	0	0	22.78	20	23.3
225	0	0.034	0	5000	0	0	0	26.11	20	23.3
226	0	0.034	0	5000	0	0	0	29.39	20	23.3
227	0	0.034	0	5000	0	0	0	32.22	20	23.3
228	0	0.034	0	5000	0	0	0	32.78	20	23.3

229	0	0.034	0	5000	0	0	0	33.89	20	23.3
230	0	0.034	0	5000	0	0	0	35	20	23.3
231	0	0.034	0	5000	0	0	0	35.61	20	23.3
232	0	0.034	0	5000	0	0	0	36.72	20	23.3
233	0	0.034	0	5000	0	0	0	37.22	20	23.3
234	0	0.034	0	5000	0	0	0	36.11	20	23.3
235	0	0.034	0	5000	0	0	0	35	20	23.3
236	0	0.034	0	5000	0	0	0	32.78	20	23.3
237	0	0.034	0	5000	0	0	0	30.61	20	23.3
238	0	0.034	0	5000	0	0	0	30	20	23.3
239	0	0.034	0	5000	0	0	0	27.22	20	23.3
240	0	0.034	0	5000	0	0	0	25	20	23.3
241	0	0.034	0	5000	0	0	0	25	20	23.3
242	0	0.034	0	5000	0	0	0	23.89	20	23.3
243	0	0.034	0	5000	0	0	0	22.22	20	23.3
244	0	0.034	0	5000	0	0	0	20	20	23.3
245	0	0.034	0	5000	0	0	0	20	20	23.3
246	0	0.034	0	5000	0	0	0	18.28	20	23.3
247	0	0.034	0	5000	0	0	0	20.61	20	23.3
248	0	0.034	0	5000	0	0	0	23.89	20	23.3
249	0	0.034	0	5000	0	0	0	27.22	20	23.3
250	0	0.034	0	5000	0	0	0	32.78	20	23.3
251	0	0.034	0	5000	0	0	0	33.28	20	23.3
252	0	0.034	0	5000	0	0	0	35.61	20	23.3
253	0	0.034	0	5000	0	0	0	35.61	20	23.3
254	0	0.034	0	5000	0	0	0	36.11	20	23.3
255	0	0.034	0	5000	0	0	0	36.72	20	23.3
256	0	0.034	0	5000	0	0	0	37.78	20	23.3
257	0	0.034	0	5000	0	0	0	37.78	20	23.3
258	0	0.034	0	5000	0	0	0	36.72	20	23.3
259	0	0.034	0	5000	0	0	0	35.61	20	23.3
260	0	0.034	0	5000	0	0	0	33.89	20	23.3
261	0	0.034	0	5000	0	0	0	32.78	20	23.3
262	0	0.034	0	5000	0	0	0	30	20	23.3

263	0	0.034	0	5000	0	0	0	29.39	20	23.3
264	0	0.034	0	5000	0	0	0	28.28	20	23.3
265	0	0.034	0	5000	0	0	0	27.78	20	23.3
266	0	0.034	0	5000	0	0	0	26.72	20	23.3
267	0	0.034	0	5000	0	0	0	24.39	20	23.3
268	0	0.034	0	5000	0	0	0	23.89	20	23.3
269	0	0.034	0	5000	0	0	0	22.22	20	23.3
270	0	0.034	0	5000	0	0	0	22.78	20	23.3
271	0	0.034	0	5000	0	0	0	24.39	20	23.3
272	0	0.034	0	5000	0	0	0	27.22	20	23.3
273	0	0.034	0	5000	0	0	0	30	20	23.3
274	0	0.034	0	5000	0	0	0	32.78	20	23.3
275	0	0.034	0	5000	0	0	0	33.89	20	23.3
276	0	0.034	0	5000	0	0	0	34.39	20	23.3
277	0	0.034	0	5000	0	0	0	35.61	20	23.3
278	0	0.034	0	5000	0	0	0	36.72	20	23.3
279	0	0.034	0	5000	0	0	0	37.22	20	23.3
280	0	0.034	0	5000	0	0	0	37.78	20	23.3
281	0	0.034	0	5000	0	0	0	37.78	20	23.3
282	0	0.034	0	5000	0	0	0	37.78	20	23.3
283	0	0.034	0	5000	0	0	0	36.72	20	23.3
284	0	0.034	0	5000	0	0	0	35	20	23.3
285	0	0.034	0	5000	0	0	0	33.89	20	23.3
286	0	0.034	0	5000	0	0	0	32.78	20	23.3
287	0	0.034	0	5000	0	0	0	31.11	20	23.3
288	0	0.034	0	5000	0	0	0	31.72	20	23.3
289	0	0.034	0	5000	0	0	0	27.78	20	23.3
290	0	0.034	0	5000	0	0	0	25	20	23.3
291	0	0.034	0	5000	0	0	0	25.61	20	23.3
292	0	0.034	0	5000	0	0	0	25.61	20	23.3
293	0	0.034	0	5000	0	0	0	23.89	20	23.3
294	0	0.034	0	5000	0	0	0	23.89	20	23.3
295	0	0.034	0	5000	0	0	0	23.89	20	23.3
296	0	0.034	0	5000	0	0	0	27.22	20	23.3

297	0	0.034	0	5000	0	0	0	30.61	20	23.3
298	0	0.034	0	5000	0	0	0	33.28	20	23.3
299	0	0.034	0	5000	0	0	0	35	20	23.3
300	0	0.034	0	5000	0	0	0	37.22	20	23.3
301	0	0.034	0	5000	0	0	0	38.28	20	23.3
302	0	0.034	0	5000	0	0	0	38.28	20	23.3
303	0	0.034	0	5000	0	0	0	38.28	20	23.3
304	0	0.034	0	5000	0	0	0	38.89	20	23.3
305	0	0.034	0	5000	0	0	0	38.89	20	23.3
306	0	0.034	0	5000	0	0	0	38.28	20	23.3
307	0	0.034	0	5000	0	0	0	37.22	20	23.3
308	0	0.034	0	5000	0	0	0	35	20	23.3
309	0	0.034	0	5000	0	0	0	34.39	20	23.3
310	0	0.034	0	5000	0	0	0	30.61	20	23.3
311	0	0.034	0	5000	0	0	0	30.61	20	23.3
312	0	0.034	0	5000	0	0	0	28.89	20	23.3
313	0	0.034	0	5000	0	0	0	26.72	20	23.3
314	0	0.034	0	5000	0	0	0	24.39	20	23.3
315	0	0.034	0	5000	0	0	0	25.61	20	23.3
316	0	0.034	0	5000	0	0	0	23.28	20	23.3
317	0	0.034	0	5000	0	0	0	21.72	20	23.3
318	0	0.034	0	5000	0	0	0	22.22	20	23.3
319	0	0.034	0	5000	0	0	0	23.28	20	23.3
320	0	0.034	0	5000	0	0	0	25.61	20	23.3
321	0	0.034	0	5000	0	0	0	32.22	20	23.3
322	0	0.034	0	5000	0	0	0	33.89	20	23.3
323	0	0.034	0	5000	0	0	0	36.11	20	23.3
324	0	0.034	0	5000	0	0	0	36.11	20	23.3
325	0	0.034	0	5000	0	0	0	36.72	20	23.3
326	0	0.034	0	5000	0	0	0	37.22	20	23.3
327	0	0.034	0	5000	0	0	0	37.78	20	23.3
328	0	0.034	0	5000	0	0	0	36.72	20	23.3
329	0	0.034	0	5000	0	0	0	37.22	20	23.3
330	0	0.034	0	5000	0	0	0	36.72	20	23.3

331	0	0.034	0	5000	0	0	0	35.61	20	23.3
332	0	0.034	0	5000	0	0	0	33.89	20	23.3
333	0	0.034	0	5000	0	0	0	32.22	20	23.3
334	0	0.034	0	5000	0	0	0	30.61	20	23.3
335	0	0.034	0	5000	0	0	0	28.89	20	23.3
336	0	0.034	0	5000	0	0	0	26.72	20	23.3
337	0	0.034	0	5000	0	0	0	25.61	20	23.3
338	0	0.034	0	5000	0	0	0	25	20	23.3
339	0	0.034	0	5000	0	0	0	24.39	20	23.3
340	0	0.034	0	5000	0	0	0	23.28	20	23.3
341	0	0.034	0	5000	0	0	0	23.28	20	23.3
342	0	0.034	0	5000	0	0	0	22.78	20	23.3
343	0	0.034	0	5000	0	0	0	22.22	20	23.3
344	0	0.034	0	5000	0	0	0	26.72	20	23.3
345	0	0.034	0	5000	0	0	0	28.89	20	23.3
346	0	0.034	0	5000	0	0	0	32.78	20	23.3
347	0	0.034	0	5000	0	0	0	34.39	20	23.3
348	0	0.034	0	5000	0	0	0	36.72	20	23.3
349	0	0.034	0	5000	0	0	0	36.72	20	23.3
350	0	0.034	0	5000	0	0	0	37.78	20	23.3
351	0	0.034	0	5000	0	0	0	36.72	20	23.3
352	0	0.034	0	5000	0	0	0	37.78	20	23.3
353	0	0.034	0	5000	0	0	0	37.78	20	23.3
354	0	0.034	0	5000	0	0	0	37.78	20	23.3
355	0	0.034	0	5000	0	0	0	36.72	20	23.3
356	0	0.034	0	5000	0	0	0	35	20	23.3
357	0	0.034	0	5000	0	0	0	33.28	20	23.3
358	0	0.034	0	5000	0	0	0	31.11	20	23.3
359	0	0.034	0	5000	0	0	0	30.61	20	23.3
360	0	0.034	0	5000	0	0	0	27.78	20	23.3
361	0	0.034	0	5000	0	0	0	27.78	20	23.3
362	0	0.034	0	5000	0	0	0	25.61	20	23.3
363	0	0.034	0	5000	0	0	0	23.28	20	23.3
364	0	0.034	0	5000	0	0	0	23.89	20	23.3

365	0	0.034	0	5000	0	0	0	24.39	20	23.3
366	0	0.034	0	5000	0	0	0	23.89	20	23.3
367	0	0.034	0	5000	0	0	0	23.89	20	23.3
368	0	0.034	0	5000	0	0	0	27.78	20	23.3
369	0	0.034	0	5000	0	0	0	31.11	20	23.3
370	0	0.034	0	5000	0	0	0	32.78	20	23.3
371	0	0.034	0	5000	0	0	0	36.11	20	23.3
372	0	0.034	0	5000	0	0	0	37.22	20	23.3
373	0	0.034	0	5000	0	0	0	36.11	20	23.3
374	0	0.034	0	5000	0	0	0	38.28	20	23.3
375	0	0.034	0	5000	0	0	0	37.78	20	23.3
376	0	0.034	0	5000	0	0	0	38.89	20	23.3
377	0	0.034	0	5000	0	0	0	38.28	20	23.3
378	0	0.034	0	5000	0	0	0	36.11	20	23.3
379	0	0.034	0	5000	0	0	0	36.72	20	23.3
380	0	0.034	0	5000	0	0	0	35	20	23.3
381	0	0.034	0	5000	0	0	0	33.89	20	23.3
382	0	0.034	0	5000	0	0	0	31.72	20	23.3
383	0	0.034	0	5000	0	0	0	30	20	23.3
384	0	0.034	0	5000	0	0	0	28.89	20	23.3
385	0	0.034	0	5000	0	0	0	29.39	20	23.3
386	0	0.034	0	5000	0	0	0	27.22	20	23.3
387	0	0.034	0	5000	0	0	0	26.11	20	23.3
388	0	0.034	0	5000	0	0	0	25	20	23.3
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391	0	0.034	0	5000	0	0	0	24.39	20	23.3
392	0	0.034	0	5000	0	0	0	27.78	20	23.3
393	0	0.034	0	5000	0	0	0	32.78	20	23.3
394	0	0.034	0	5000	0	0	0	33.89	20	23.3
395	0	0.034	0	5000	0	0	0	35.61	20	23.3
396	0	0.034	0	5000	0	0	0	36.11	20	23.3
397	0	0.034	0	5000	0	0	0	35.61	20	23.3
398	0	0.034	0	5000	0	0	0	37.78	20	23.3

399	0	0.034	0	5000	0	0	0	38.28	20	23.3
400	0	0.034	0	5000	0	0	0	37.22	20	23.3
401	0	0.034	0	5000	0	0	0	36.72	20	23.3
402	0	0.034	0	5000	0	0	0	36.11	20	23.3
403	0	0.034	0	5000	0	0	0	32.78	20	23.3
404	0	0.034	0	5000	0	0	0	30	20	23.3
405	0	0.034	0	5000	0	0	0	28.28	20	23.3
406	0	0.034	0	5000	0	0	0	28.28	20	23.3
407	0	0.034	0	5000	0	0	0	29.39	20	23.3
408	0	0.034	0	5000	0	0	0	28.89	20	23.3
409	0	0.034	0	5000	0	0	0	28.89	20	23.3
410	0	0.034	0	5000	0	0	0	27.78	20	23.3
411	0	0.034	0	5000	0	0	0	28.28	20	23.3
412	0	0.034	0	5000	0	0	0	26.72	20	23.3
413	0	0.034	0	5000	0	0	0	26.72	20	23.3
414	0	0.034	0	5000	0	0	0	26.11	20	23.3
415	0	0.034	0	5000	0	0	0	26.11	20	23.3
416	0	0.034	0	5000	0	0	0	28.28	20	23.3
417	0	0.034	0	5000	0	0	0	31.11	20	23.3
418	0	0.034	0	5000	0	0	0	32.78	20	23.3
419	0	0.034	0	5000	0	0	0	33.89	20	23.3
420	0	0.034	0	5000	0	0	0	35.61	20	23.3
421	0	0.034	0	5000	0	0	0	35.61	20	23.3
422	0	0.034	0	5000	0	0	0	36.72	20	23.3
423	0	0.034	0	5000	0	0	0	37.78	20	23.3
424	0	0.034	0	5000	0	0	0	37.78	20	23.3
425	0	0.034	0	5000	0	0	0	37.78	20	23.3
426	0	0.034	0	5000	0	0	0	36.72	20	23.3
427	0	0.034	0	5000	0	0	0	35	20	23.3
428	0	0.034	0	5000	0	0	0	33.89	20	23.3
429	0	0.034	0	5000	0	0	0	33.28	20	23.3
430	0	0.034	0	5000	0	0	0	32.78	20	23.3
431	0	0.034	0	5000	0	0	0	30	20	23.3
432	0	0.034	0	5000	0	0	0	31.11	20	23.3

433	0	0.034	0	5000	0	0	0	30	20	23.3
434	0	0.034	0	5000	0	0	0	28.28	20	23.3
435	0	0.034	0	5000	0	0	0	30	20	23.3
436	0	0.034	0	5000	0	0	0	27.78	20	23.3
437	0	0.034	0	5000	0	0	0	27.78	20	23.3
438	0	0.034	0	5000	0	0	0	29.39	20	23.3
439	0	0.034	0	5000	0	0	0	26.72	20	23.3
440	0	0.034	0	5000	0	0	0	29.39	20	23.3
441	0	0.034	0	5000	0	0	0	31.11	20	23.3
442	0	0.034	0	5000	0	0	0	33.89	20	23.3
443	0	0.034	0	5000	0	0	0	35	20	23.3
444	0	0.034	0	5000	0	0	0	36.11	20	23.3
445	0	0.034	0	5000	0	0	0	36.72	20	23.3
446	0	0.034	0	5000	0	0	0	37.78	20	23.3
447	0	0.034	0	5000	0	0	0	37.22	20	23.3
448	0	0.034	0	5000	0	0	0	37.22	20	23.3
449	0	0.034	0	5000	0	0	0	37.22	20	23.3
450	0	0.034	0	5000	0	0	0	36.11	20	23.3
451	0	0.034	0	5000	0	0	0	35	20	23.3
452	0	0.034	0	5000	0	0	0	33.28	20	23.3
453	0	0.034	0	5000	0	0	0	32.78	20	23.3
454	0	0.034	0	5000	0	0	0	29.39	20	23.3
455	0	0.034	0	5000	0	0	0	28.89	20	23.3
456	0	0.034	0	5000	0	0	0	27.22	20	23.3
457	0	0.034	0	5000	0	0	0	23.89	20	23.3
458	0	0.034	0	5000	0	0	0	25	20	23.3
459	0	0.034	0	5000	0	0	0	21.72	20	23.3
460	0	0.034	0	5000	0	0	0	21.11	20	23.3
461	0	0.034	0	5000	0	0	0	18.89	20	23.3
462	0	0.034	0	5000	0	0	0	19.39	20	23.3
463	0	0.034	0	5000	0	0	0	20	20	23.3
464	0	0.034	0	5000	0	0	0	23.89	20	23.3
465	0	0.034	0	5000	0	0	0	28.28	20	23.3
466	0	0.034	0	5000	0	0	0	29.39	20	23.3

467	0	0.034	0	5000	0	0	0	31.11	20	23.3
468	0	0.034	0	5000	0	0	0	32.78	20	23.3
469	0	0.034	0	5000	0	0	0	33.28	20	23.3
470	0	0.034	0	5000	0	0	0	35	20	23.3
471	0	0.034	0	5000	0	0	0	36.11	20	23.3
472	0	0.034	0	5000	0	0	0	36.72	20	23.3
473	0	0.034	0	5000	0	0	0	36.72	20	23.3
474	0	0.034	0	5000	0	0	0	36.72	20	23.3
475	0	0.034	0	5000	0	0	0	35.61	20	23.3
476	0	0.034	0	5000	0	0	0	31.72	20	23.3
477	0	0.034	0	5000	0	0	0	30.61	20	23.3
478	0	0.034	0	5000	0	0	0	26.11	20	23.3
479	0	0.034	0	5000	0	0	0	25.61	20	23.3
480	0	0.034	0	5000	0	0	0	21.11	20	23.3
481	0	0.034	0	5000	0	0	0	21.72	20	23.3
482	0	0.034	0	5000	0	0	0	20	20	23.3
483	0	0.034	0	5000	0	0	0	17.22	20	23.3
484	0	0.034	0	5000	0	0	0	17.78	20	23.3
485	0	0.034	0	5000	0	0	0	17.22	20	23.3
486	0	0.034	0	5000	0	0	0	17.22	20	23.3
487	0	0.034	0	5000	0	0	0	18.28	20	23.3
488	0	0.034	0	5000	0	0	0	22.78	20	23.3
489	0	0.034	0	5000	0	0	0	26.11	20	23.3
490	0	0.034	0	5000	0	0	0	30.61	20	23.3
491	0	0.034	0	5000	0	0	0	33.28	20	23.3
492	0	0.034	0	5000	0	0	0	34.39	20	23.3
493	0	0.034	0	5000	0	0	0	35.61	20	23.3
494	0	0.034	0	5000	0	0	0	37.78	20	23.3
495	0	0.034	0	5000	0	0	0	38.28	20	23.3
496	0	0.034	0	5000	0	0	0	38.28	20	23.3
497	0	0.034	0	5000	0	0	0	38.89	20	23.3
498	0	0.034	0	5000	0	0	0	37.78	20	23.3
499	0	0.034	0	5000	0	0	0	36.72	20	23.3
500	0	0.034	0	5000	0	0	0	34.39	20	23.3

501	0	0.034	0	5000	0	0	0	31.11	20	23.3
502	0	0.034	0	5000	0	0	0	29.39	20	23.3
503	0	0.034	0	5000	0	0	0	26.72	20	23.3
504	0	0.034	0	5000	0	0	0	25	20	23.3
505	0	0.034	0	5000	0	0	0	22.78	20	23.3
506	0	0.034	0	5000	0	0	0	22.22	20	23.3
507	0	0.034	0	5000	0	0	0	21.72	20	23.3
508	0	0.034	0	5000	0	0	0	19.39	20	23.3
509	0	0.034	0	5000	0	0	0	18.89	20	23.3
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513	0	0.034	0	5000	0	0	0	27.22	20	23.3
514	0	0.034	0	5000	0	0	0	31.11	20	23.3
515	0	0.034	0	5000	0	0	0	33.89	20	23.3
516	0	0.034	0	5000	0	0	0	35	20	23.3
517	0	0.034	0	5000	0	0	0	36.72	20	23.3
518	0	0.034	0	5000	0	0	0	38.28	20	23.3
519	0	0.034	0	5000	0	0	0	37.78	20	23.3
520	0	0.034	0	5000	0	0	0	38.28	20	23.3
521	0	0.034	0	5000	0	0	0	38.89	20	23.3
522	0	0.034	0	5000	0	0	0	37.78	20	23.3
523	0	0.034	0	5000	0	0	0	36.72	20	23.3
524	0	0.034	0	5000	0	0	0	35	20	23.3
525	0	0.034	0	5000	0	0	0	31.11	20	23.3
526	0	0.034	0	5000	0	0	0	30	20	23.3
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532	0	0.034	0	5000	0	0	0	20.61	20	23.3
533	0	0.034	0	5000	0	0	0	21.11	20	23.3
534	0	0.034	0	5000	0	0	0	21.72	20	23.3

535	0	0.034	0	5000	0	0	0	21.11	20	23.3
536	0	0.034	0	5000	0	0	0	26.11	20	23.3
537	0	0.034	0	5000	0	0	0	27.78	20	23.3
538	0	0.034	0	5000	0	0	0	30	20	23.3
539	0	0.034	0	5000	0	0	0	31.72	20	23.3
540	0	0.034	0	5000	0	0	0	33.28	20	23.3
541	0	0.034	0	5000	0	0	0	34.39	20	23.3
542	0	0.034	0	5000	0	0	0	36.11	20	23.3
543	0	0.034	0	5000	0	0	0	36.11	20	23.3
544	0	0.034	0	5000	0	0	0	36.72	20	23.3
545	0	0.034	0	5000	0	0	0	37.22	20	23.3
546	0	0.034	0	5000	0	0	0	37.22	20	23.3
547	0	0.034	0	5000	0	0	0	36.11	20	23.3
548	0	0.034	0	5000	0	0	0	33.89	20	23.3
549	0	0.034	0	5000	0	0	0	33.28	20	23.3
550	0	0.034	0	5000	0	0	0	30	20	23.3
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552	0	0.034	0	5000	0	0	0	24.39	20	23.3
553	0	0.034	0	5000	0	0	0	24.39	20	23.3
554	0	0.034	0	5000	0	0	0	25	20	23.3
555	0	0.034	0	5000	0	0	0	22.22	20	23.3
556	0	0.034	0	5000	0	0	0	21.72	20	23.3
557	0	0.034	0	5000	0	0	0	20	20	23.3
558	0	0.034	0	5000	0	0	0	18.89	20	23.3
559	0	0.034	0	5000	0	0	0	20	20	23.3
560	0	0.034	0	5000	0	0	0	25	20	23.3
561	0	0.034	0	5000	0	0	0	28.89	20	23.3
562	0	0.034	0	5000	0	0	0	31.72	20	23.3
563	0	0.034	0	5000	0	0	0	33.89	20	23.3
564	0	0.034	0	5000	0	0	0	35.61	20	23.3
565	0	0.034	0	5000	0	0	0	37.22	20	23.3
566	0	0.034	0	5000	0	0	0	37.22	20	23.3
567	0	0.034	0	5000	0	0	0	37.22	20	23.3
568	0	0.034	0	5000	0	0	0	38.28	20	23.3

569	0	0.034	0	5000	0	0	0	38.28	20	23.3
570	0	0.034	0	5000	0	0	0	37.78	20	23.3
571	0	0.034	0	5000	0	0	0	36.72	20	23.3
572	0	0.034	0	5000	0	0	0	33.28	20	23.3
573	0	0.034	0	5000	0	0	0	32.22	20	23.3
574	0	0.034	0	5000	0	0	0	30	20	23.3
575	0	0.034	0	5000	0	0	0	27.78	20	23.3
576	0	0.034	0	5000	0	0	0	27.22	20	23.3
577	0	0.034	0	5000	0	0	0	25.61	20	23.3
578	0	0.034	0	5000	0	0	0	27.22	20	23.3
579	0	0.034	0	5000	0	0	0	23.89	20	23.3
580	0	0.034	0	5000	0	0	0	21.72	20	23.3
581	0	0.034	0	5000	0	0	0	22.22	20	23.3
582	0	0.034	0	5000	0	0	0	21.11	20	23.3
583	0	0.034	0	5000	0	0	0	23.28	20	23.3
584	0	0.034	0	5000	0	0	0	26.11	20	23.3
585	0	0.034	0	5000	0	0	0	29.39	20	23.3
586	0	0.034	0	5000	0	0	0	33.89	20	23.3
587	0	0.034	0	5000	0	0	0	35	20	23.3
588	0	0.034	0	5000	0	0	0	36.11	20	23.3
589	0	0.034	0	5000	0	0	0	36.72	20	23.3
590	0	0.034	0	5000	0	0	0	37.78	20	23.3
591	0	0.034	0	5000	0	0	0	35.61	20	23.3
592	0	0.034	0	5000	0	0	0	34.39	20	23.3
593	0	0.034	0	5000	0	0	0	30	20	23.3
594	0	0.034	0	5000	0	0	0	32.22	20	23.3
595	0	0.034	0	5000	0	0	0	31.72	20	23.3
596	0	0.034	0	5000	0	0	0	30	20	23.3
597	0	0.034	0	5000	0	0	0	28.89	20	23.3
598	0	0.034	0	5000	0	0	0	28.89	20	23.3
599	0	0.034	0	5000	0	0	0	25.61	20	23.3
600	0	0.034	0	5000	0	0	0	26.11	20	23.3
601	0	0.034	0	5000	0	0	0	26.11	20	23.3
602	0	0.034	0	5000	0	0	0	23.28	20	23.3

603	0	0.034	0	5000	0	0	0	23.89	20	23.3
604	0	0.034	0	5000	0	0	0	21.72	20	23.3
605	0	0.034	0	5000	0	0	0	21.72	20	23.3
606	0	0.034	0	5000	0	0	0	21.11	20	23.3
607	0	0.034	0	5000	0	0	0	22.22	20	23.3
608	0	0.034	0	5000	0	0	0	23.89	20	23.3
609	0	0.034	0	5000	0	0	0	28.28	20	23.3
610	0	0.034	0	5000	0	0	0	30.61	20	23.3
611	0	0.034	0	5000	0	0	0	31.11	20	23.3
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613	0	0.034	0	5000	0	0	0	32.78	20	23.3
614	0	0.034	0	5000	0	0	0	31.11	20	23.3
615	0	0.034	0	5000	0	0	0	31.11	20	23.3
616	0	0.034	0	5000	0	0	0	28.89	20	23.3
617	0	0.034	0	5000	0	0	0	29.39	20	23.3
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623	0	0.034	0	5000	0	0	0	25.61	20	23.3
624	0	0.034	0	5000	0	0	0	25	20	23.3
625	0	0.034	0	5000	0	0	0	24.39	20	23.3
626	0	0.034	0	5000	0	0	0	22.78	20	23.3
627	0	0.034	0	5000	0	0	0	23.28	20	23.3
628	0	0.034	0	5000	0	0	0	23.28	20	23.3
629	0	0.034	0	5000	0	0	0	23.89	20	23.3
630	0	0.034	0	5000	0	0	0	22.78	20	23.3
631	0	0.034	0	5000	0	0	0	21.72	20	23.3
632	0	0.034	0	5000	0	0	0	23.28	20	23.3
633	0	0.034	0	5000	0	0	0	23.89	20	23.3
634	0	0.034	0	5000	0	0	0	25.61	20	23.3
635	0	0.034	0	5000	0	0	0	27.78	20	23.3
636	0	0.034	0	5000	0	0	0	28.28	20	23.3

637	0	0.034	0	5000	0	0	0	30.61	20	23.3
638	0	0.034	0	5000	0	0	0	31.11	20	23.3
639	0	0.034	0	5000	0	0	0	31.72	20	23.3
640	0	0.034	0	5000	0	0	0	32.22	20	23.3
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648	0	0.034	0	5000	0	0	0	26.11	20	23.3
649	0	0.034	0	5000	0	0	0	25.61	20	23.3
650	0	0.034	0	5000	0	0	0	22.22	20	23.3
651	0	0.034	0	5000	0	0	0	23.28	20	23.3
652	0	0.034	0	5000	0	0	0	21.72	20	23.3
653	0	0.034	0	5000	0	0	0	21.11	20	23.3
654	0	0.034	0	5000	0	0	0	21.72	20	23.3
655	0	0.034	0	5000	0	0	0	21.72	20	23.3
656	0	0.034	0	5000	0	0	0	25	20	23.3
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663	0	0.034	0	5000	0	0	0	35	20	23.3
664	0	0.034	0	5000	0	0	0	36.11	20	23.3
665	0	0.034	0	5000	0	0	0	35.61	20	23.3
666	0	0.034	0	5000	0	0	0	35	20	23.3
667	0	0.034	0	5000	0	0	0	34.39	20	23.3
668	0	0.034	0	5000	0	0	0	33.28	20	23.3
669	0	0.034	0	5000	0	0	0	32.22	20	23.3
670	0	0.034	0	5000	0	0	0	31.11	20	23.3

671	0	0.034	0	5000	0	0	0	27.78	20	23.3
672	0	0.034	0	5000	0	0	0	28.89	20	23.3
673	0	0.034	0	5000	0	0	0	29.39	20	23.3
674	0	0.034	0	5000	0	0	0	27.78	20	23.3
675	0	0.034	0	5000	0	0	0	24.39	20	23.3
676	0	0.034	0	5000	0	0	0	23.89	20	23.3
677	0	0.034	0	5000	0	0	0	22.78	20	23.3
678	0	0.034	0	5000	0	0	0	21.72	20	23.3
679	0	0.034	0	5000	0	0	0	22.78	20	23.3
680	0	0.034	0	5000	0	0	0	26.11	20	23.3
681	0	0.034	0	5000	0	0	0	28.89	20	23.3
682	0	0.034	0	5000	0	0	0	31.11	20	23.3
683	0	0.034	0	5000	0	0	0	33.28	20	23.3
684	0	0.034	0	5000	0	0	0	35	20	23.3
685	0	0.034	0	5000	0	0	0	36.72	20	23.3
686	0	0.034	0	5000	0	0	0	37.22	20	23.3
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688	0	0.034	0	5000	0	0	0	37.78	20	23.3
689	0	0.034	0	5000	0	0	0	37.22	20	23.3
690	0	0.034	0	5000	0	0	0	37.22	20	23.3
691	0	0.034	0	5000	0	0	0	36.11	20	23.3
692	0	0.034	0	5000	0	0	0	34.39	20	23.3
693	0	0.034	0	5000	0	0	0	33.28	20	23.3
694	0	0.034	0	5000	0	0	0	30.61	20	23.3
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696	0	0.034	0	5000	0	0	0	28.28	20	23.3
697	0	0.034	0	5000	0	0	0	26.11	20	23.3
698	0	0.034	0	5000	0	0	0	27.78	20	23.3
699	0	0.034	0	5000	0	0	0	24.39	20	23.3
700	0	0.034	0	5000	0	0	0	25.61	20	23.3
701	0	0.034	0	5000	0	0	0	24.39	20	23.3
702	0	0.034	0	5000	0	0	0	23.89	20	23.3
703	0	0.034	0	5000	0	0	0	25	20	23.3
704	0	0.034	0	5000	0	0	0	27.22	20	23.3

705	0	0.034	0	5000	0	0	0	30.61	20	23.3
706	0	0.034	0	5000	0	0	0	32.78	20	23.3
707	0	0.034	0	5000	0	0	0	33.89	20	23.3
708	0	0.034	0	5000	0	0	0	33.28	20	23.3
709	0	0.034	0	5000	0	0	0	33.89	20	23.3
710	0	0.034	0	5000	0	0	0	32.22	20	23.3
711	0	0.034	0	5000	0	0	0	32.22	20	23.3
712	0	0.034	0	5000	0	0	0	31.72	20	23.3
713	0	0.034	0	5000	0	0	0	31.72	20	23.3
714	0	0.034	0	5000	0	0	0	32.22	20	23.3
715	0	0.034	0	5000	0	0	0	31.72	20	23.3
716	0	0.034	0	5000	0	0	0	30	20	23.3
717	0	0.034	0	5000	0	0	0	28.89	20	23.3
718	0	0.034	0	5000	0	0	0	28.28	20	23.3
719	0	0.034	0	5000	0	0	0	27.78	20	23.3
720	0	0.034	0	5000	0	0	0	27.22	20	23.3

end*** END OF INPUT FILE 'ATMOSPH.IN' *****

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Qp1

Pcp_File_Version=4

*** BLOCK I: ATMOSPHERIC INFORMATION *****

MaxAL (MaxAL = number of atmospheric data-records)

720

DailyVar SinusVar IDummy IDummy IDummy IDummy IDummy IDummy IDummy IDummy IDummy

f f f f f t f f f f

hCritS (max. allowed pressure head at the soil surface)

0

tAtm	Prec	rSoil	rRoot	hCritA	rB	hB	ht	tTop	tBot	Ampl	RootDepth
1	0	0.034	0	5000	0	0	26.72	20	23.3		
2	0	0.034	0	5000	0	0	26.72	20	23.3		
3	0	0.034	0	5000	0	0	26.72	20	23.3		
4	0	0.034	0	5000	0	0	25.61	20	23.3		
5	0	0.034	0	5000	0	0	24.39	20	23.3		
6	0	0.034	0	5000	0	0	23.89	20	23.3		
7	0	0.034	0	5000	0	0	23.89	20	23.3		
8	0	0.034	0	5000	0	0	23.28	20	23.3		
9	0	0.034	0	5000	0	0	25	20	23.3		
10	0	0.034	0	5000	0	0	23.89	20	23.3		
11	0	0.034	0	5000	0	0	21.72	20	23.3		
12	0	0.034	0	5000	0	0	21.11	20	23.3		
13	0	0.034	0	5000	0	0	21.72	20	23.3		
14	0	0.034	0	5000	0	0	22.78	20	23.3		
15	0	0.034	0	5000	0	0	23.89	20	23.3		
16	0	0.034	0	5000	0	0	25.61	20	23.3		
17	0	0.034	0	5000	0	0	24.39	20	23.3		
18	0	0.034	0	5000	0	0	22.78	20	23.3		
19	0	0.034	0	5000	0	0	22.78	20	23.3		
20	0	0.034	0	5000	0	0	22.22	20	23.3		
21	0	0.034	0	5000	0	0	22.78	20	23.3		
22	0	0.034	0	5000	0	0	22.22	20	23.3		
23	0	0.034	0	5000	0	0	22.78	20	23.3		
24	0	0.034	0	5000	0	0	22.22	20	23.3		

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25	0	0.034	0	5000	0	0	0	21.72	20	23.3
26	0	0.034	0	5000	0	0	0	22.22	20	23.3
27	0	0.034	0	5000	0	0	0	21.72	20	23.3
28	0	0.034	0	5000	0	0	0	21.72	20	23.3
29	0	0.034	0	5000	0	0	0	21.11	20	23.3
30	0	0.034	0	5000	0	0	0	21.11	20	23.3
31	0	0.034	0	5000	0	0	0	22.22	20	23.3
32	0	0.034	0	5000	0	0	0	23.89	20	23.3
33	0	0.034	0	5000	0	0	0	25	20	23.3
34	0	0.034	0	5000	0	0	0	26.11	20	23.3
35	0	0.034	0	5000	0	0	0	27.78	20	23.3
36	0	0.034	0	5000	0	0	0	29.39	20	23.3
37	0	0.034	0	5000	0	0	0	30.61	20	23.3
38	0	0.034	0	5000	0	0	0	31.11	20	23.3
39	0	0.034	0	5000	0	0	0	32.22	20	23.3
40	0	0.034	0	5000	0	0	0	31.72	20	23.3
41	0	0.034	0	5000	0	0	0	31.72	20	23.3
42	0	0.034	0	5000	0	0	0	32.22	20	23.3
43	0	0.034	0	5000	0	0	0	31.11	20	23.3
44	0	0.034	0	5000	0	0	0	23.28	20	23.3
45	0	0.034	0	5000	0	0	0	25.61	20	23.3
46	0	0.034	0	5000	0	0	0	23.89	20	23.3
47	0	0.034	0	5000	0	0	0	24.39	20	23.3
48	0	0.034	0	5000	0	0	0	23.28	20	23.3
49	0	0.034	0	5000	0	0	0	22.78	20	23.3
50	0	0.034	0	5000	0	0	0	22.78	20	23.3
51	0	0.034	0	5000	0	0	0	22.78	20	23.3
52	0	0.034	0	5000	0	0	0	21.11	20	23.3
53	0	0.034	0	5000	0	0	0	21.11	20	23.3
54	0	0.034	0	5000	0	0	0	20.61	20	23.3
55	0	0.034	0	5000	0	0	0	21.72	20	23.3
56	0	0.034	0	5000	0	0	0	24.39	20	23.3
57	0	0.034	0	5000	0	0	0	26.11	20	23.3
58	0	0.034	0	5000	0	0	0	28.89	20	23.3

59	0	0.034	0	5000	0	0	0	30.61	20	23.3
60	0	0.034	0	5000	0	0	0	32.22	20	23.3
61	0	0.034	0	5000	0	0	0	33.28	20	23.3
62	0	0.034	0	5000	0	0	0	33.89	20	23.3
63	0	0.034	0	5000	0	0	0	35.61	20	23.3
64	0	0.034	0	5000	0	0	0	36.11	20	23.3
65	0	0.034	0	5000	0	0	0	36.72	20	23.3
66	0	0.034	0	5000	0	0	0	36.11	20	23.3
67	0	0.034	0	5000	0	0	0	33.28	20	23.3
68	0	0.034	0	5000	0	0	0	31.72	20	23.3
69	0	0.034	0	5000	0	0	0	30.61	20	23.3
70	0	0.034	0	5000	0	0	0	28.28	20	23.3
71	0	0.034	0	5000	0	0	0	28.28	20	23.3
72	0	0.034	0	5000	0	0	0	26.11	20	23.3
73	0	0.034	0	5000	0	0	0	26.11	20	23.3
74	0	0.034	0	5000	0	0	0	25.61	20	23.3
75	0	0.034	0	5000	0	0	0	25	20	23.3
76	0	0.034	0	5000	0	0	0	23.28	20	23.3
77	0	0.034	0	5000	0	0	0	22.22	20	23.3
78	0	0.034	0	5000	0	0	0	20.61	20	23.3
79	0	0.034	0	5000	0	0	0	22.78	20	23.3
80	0	0.034	0	5000	0	0	0	26.72	20	23.3
81	0	0.034	0	5000	0	0	0	28.89	20	23.3
82	0	0.034	0	5000	0	0	0	32.22	20	23.3
83	0	0.034	0	5000	0	0	0	35	20	23.3
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85	0	0.034	0	5000	0	0	0	37.22	20	23.3
86	0	0.034	0	5000	0	0	0	37.22	20	23.3
87	0	0.034	0	5000	0	0	0	36.72	20	23.3
88	0	0.034	0	5000	0	0	0	37.22	20	23.3
89	0	0.034	0	5000	0	0	0	37.78	20	23.3
90	0	0.034	0	5000	0	0	0	37.22	20	23.3
91	0	0.034	0	5000	0	0	0	36.72	20	23.3
92	0	0.034	0	5000	0	0	0	35.61	20	23.3

93	0	0.034	0	5000	0	0	0	33.89	20	23.3
94	0	0.034	0	5000	0	0	0	32.22	20	23.3
95	0	0.034	0	5000	0	0	0	31.72	20	23.3
96	0	0.034	0	5000	0	0	0	31.72	20	23.3
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98	0	0.034	0	5000	0	0	0	28.89	20	23.3
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101	0	0.034	0	5000	0	0	0	25.61	20	23.3
102	0	0.034	0	5000	0	0	0	23.89	20	23.3
103	0	0.034	0	5000	0	0	0	26.11	20	23.3
104	0	0.034	0	5000	0	0	0	28.28	20	23.3
105	0	0.034	0	5000	0	0	0	31.11	20	23.3
106	0	0.034	0	5000	0	0	0	33.89	20	23.3
107	0	0.034	0	5000	0	0	0	34.39	20	23.3
108	0	0.034	0	5000	0	0	0	35.61	20	23.3
109	0	0.034	0	5000	0	0	0	36.11	20	23.3
110	0	0.034	0	5000	0	0	0	35.61	20	23.3
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112	0	0.034	0	5000	0	0	0	36.72	20	23.3
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117	0	0.034	0	5000	0	0	0	31.11	20	23.3
118	0	0.034	0	5000	0	0	0	30.61	20	23.3
119	0	0.034	0	5000	0	0	0	30	20	23.3
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121	0	0.034	0	5000	0	0	0	27.78	20	23.3
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123	0	0.034	0	5000	0	0	0	23.28	20	23.3
124	0	0.034	0	5000	0	0	0	23.89	20	23.3
125	0	0.034	0	5000	0	0	0	23.28	20	23.3
126	0	0.034	0	5000	0	0	0	22.78	20	23.3

127	0	0.034	0	5000	0	0	0	22.78	20	23.3
128	0	0.034	0	5000	0	0	0	24.39	20	23.3
129	0	0.034	0	5000	0	0	0	27.22	20	23.3
130	0	0.034	0	5000	0	0	0	29.39	20	23.3
131	0	0.034	0	5000	0	0	0	31.11	20	23.3
132	0	0.034	0	5000	0	0	0	32.22	20	23.3
133	0	0.034	0	5000	0	0	0	33.28	20	23.3
134	0	0.034	0	5000	0	0	0	33.89	20	23.3
135	0	0.034	0	5000	0	0	0	33.89	20	23.3
136	0	0.034	0	5000	0	0	0	33.89	20	23.3
137	0	0.034	0	5000	0	0	0	33.89	20	23.3
138	0	0.034	0	5000	0	0	0	33.89	20	23.3
139	0	0.034	0	5000	0	0	0	32.78	20	23.3
140	0	0.034	0	5000	0	0	0	30.61	20	23.3
141	0	0.034	0	5000	0	0	0	28.89	20	23.3
142	0	0.034	0	5000	0	0	0	25.61	20	23.3
143	0	0.034	0	5000	0	0	0	22.78	20	23.3
144	0	0.034	0	5000	0	0	0	22.78	20	23.3
145	0	0.034	0	5000	0	0	0	22.78	20	23.3
146	0	0.034	0	5000	0	0	0	21.11	20	23.3
147	0	0.034	0	5000	0	0	0	20.61	20	23.3
148	0	0.034	0	5000	0	0	0	18.28	20	23.3
149	0	0.034	0	5000	0	0	0	16.72	20	23.3
150	0	0.034	0	5000	0	0	0	16.72	20	23.3
151	0	0.034	0	5000	0	0	0	17.78	20	23.3
152	0	0.034	0	5000	0	0	0	21.72	20	23.3
153	0	0.034	0	5000	0	0	0	24.39	20	23.3
154	0	0.034	0	5000	0	0	0	26.11	20	23.3
155	0	0.034	0	5000	0	0	0	28.28	20	23.3
156	0	0.034	0	5000	0	0	0	28.89	20	23.3
157	0	0.034	0	5000	0	0	0	31.11	20	23.3
158	0	0.034	0	5000	0	0	0	32.78	20	23.3
159	0	0.034	0	5000	0	0	0	33.89	20	23.3
160	0	0.034	0	5000	0	0	0	33.89	20	23.3

161	0	0.034	0	5000	0	0	0	33.89	20	23.3
162	0	0.034	0	5000	0	0	0	33.89	20	23.3
163	0	0.034	0	5000	0	0	0	32.78	20	23.3
164	0	0.034	0	5000	0	0	0	30.61	20	23.3
165	0	0.034	0	5000	0	0	0	29.39	20	23.3
166	0	0.034	0	5000	0	0	0	26.72	20	23.3
167	0	0.034	0	5000	0	0	0	26.72	20	23.3
168	0	0.034	0	5000	0	0	0	23.28	20	23.3
169	0	0.034	0	5000	0	0	0	23.89	20	23.3
170	0	0.034	0	5000	0	0	0	19.39	20	23.3
171	0	0.034	0	5000	0	0	0	17.78	20	23.3
172	0	0.034	0	5000	0	0	0	19.39	20	23.3
173	0	0.034	0	5000	0	0	0	17.22	20	23.3
174	0	0.034	0	5000	0	0	0	15.61	20	23.3
175	0	0.034	0	5000	0	0	0	17.78	20	23.3
176	0	0.034	0	5000	0	0	0	22.22	20	23.3
177	0	0.034	0	5000	0	0	0	25	20	23.3
178	0	0.034	0	5000	0	0	0	28.28	20	23.3
179	0	0.034	0	5000	0	0	0	31.72	20	23.3
180	0	0.034	0	5000	0	0	0	32.22	20	23.3
181	0	0.034	0	5000	0	0	0	33.28	20	23.3
182	0	0.034	0	5000	0	0	0	33.89	20	23.3
183	0	0.034	0	5000	0	0	0	34.39	20	23.3
184	0	0.034	0	5000	0	0	0	35	20	23.3
185	0	0.034	0	5000	0	0	0	35.61	20	23.3
186	0	0.034	0	5000	0	0	0	35	20	23.3
187	0	0.034	0	5000	0	0	0	33.89	20	23.3
188	0	0.034	0	5000	0	0	0	31.72	20	23.3
189	0	0.034	0	5000	0	0	0	30.61	20	23.3
190	0	0.034	0	5000	0	0	0	28.89	20	23.3
191	0	0.034	0	5000	0	0	0	25.61	20	23.3
192	0	0.034	0	5000	0	0	0	27.22	20	23.3
193	0	0.034	0	5000	0	0	0	22.22	20	23.3
194	0	0.034	0	5000	0	0	0	19.39	20	23.3

195	0	0.034	0	5000	0	0	0	20.61	20	23.3
196	0	0.034	0	5000	0	0	0	20	20	23.3
197	0	0.034	0	5000	0	0	0	18.89	20	23.3
198	0	0.034	0	5000	0	0	0	16.72	20	23.3
199	0	0.034	0	5000	0	0	0	19.39	20	23.3
200	0	0.034	0	5000	0	0	0	23.89	20	23.3
201	0	0.034	0	5000	0	0	0	26.72	20	23.3
202	0	0.034	0	5000	0	0	0	29.39	20	23.3
203	0	0.034	0	5000	0	0	0	32.22	20	23.3
204	0	0.034	0	5000	0	0	0	32.78	20	23.3
205	0	0.034	0	5000	0	0	0	33.28	20	23.3
206	0	0.034	0	5000	0	0	0	35	20	23.3
207	0	0.034	0	5000	0	0	0	36.72	20	23.3
208	0	0.034	0	5000	0	0	0	36.11	20	23.3
209	0	0.034	0	5000	0	0	0	36.11	20	23.3
210	0	0.034	0	5000	0	0	0	35.61	20	23.3
211	0	0.034	0	5000	0	0	0	33.89	20	23.3
212	0	0.034	0	5000	0	0	0	32.22	20	23.3
213	0	0.034	0	5000	0	0	0	30.61	20	23.3
214	0	0.034	0	5000	0	0	0	28.28	20	23.3
215	0	0.034	0	5000	0	0	0	24.39	20	23.3
216	0	0.034	0	5000	0	0	0	26.72	20	23.3
217	0	0.034	0	5000	0	0	0	24.39	20	23.3
218	0	0.034	0	5000	0	0	0	23.89	20	23.3
219	0	0.034	0	5000	0	0	0	21.11	20	23.3
220	0	0.034	0	5000	0	0	0	21.72	20	23.3
221	0	0.034	0	5000	0	0	0	20	20	23.3
222	0	0.034	0	5000	0	0	0	17.78	20	23.3
223	0	0.034	0	5000	0	0	0	19.39	20	23.3
224	0	0.034	0	5000	0	0	0	22.78	20	23.3
225	0	0.034	0	5000	0	0	0	26.11	20	23.3
226	0	0.034	0	5000	0	0	0	29.39	20	23.3
227	0	0.034	0	5000	0	0	0	32.22	20	23.3
228	0	0.034	0	5000	0	0	0	32.78	20	23.3

229	0	0.034	0	5000	0	0	0	33.89	20	23.3
230	0	0.034	0	5000	0	0	0	35	20	23.3
231	0	0.034	0	5000	0	0	0	35.61	20	23.3
232	0	0.034	0	5000	0	0	0	36.72	20	23.3
233	0	0.034	0	5000	0	0	0	37.22	20	23.3
234	0	0.034	0	5000	0	0	0	36.11	20	23.3
235	0	0.034	0	5000	0	0	0	35	20	23.3
236	0	0.034	0	5000	0	0	0	32.78	20	23.3
237	0	0.034	0	5000	0	0	0	30.61	20	23.3
238	0	0.034	0	5000	0	0	0	30	20	23.3
239	0	0.034	0	5000	0	0	0	27.22	20	23.3
240	0	0.034	0	5000	0	0	0	25	20	23.3
241	0	0.034	0	5000	0	0	0	25	20	23.3
242	0	0.034	0	5000	0	0	0	23.89	20	23.3
243	0	0.034	0	5000	0	0	0	22.22	20	23.3
244	0	0.034	0	5000	0	0	0	20	20	23.3
245	0	0.034	0	5000	0	0	0	20	20	23.3
246	0	0.034	0	5000	0	0	0	18.28	20	23.3
247	0	0.034	0	5000	0	0	0	20.61	20	23.3
248	0	0.034	0	5000	0	0	0	23.89	20	23.3
249	0	0.034	0	5000	0	0	0	27.22	20	23.3
250	0	0.034	0	5000	0	0	0	32.78	20	23.3
251	0	0.034	0	5000	0	0	0	33.28	20	23.3
252	0	0.034	0	5000	0	0	0	35.61	20	23.3
253	0	0.034	0	5000	0	0	0	35.61	20	23.3
254	0	0.034	0	5000	0	0	0	36.11	20	23.3
255	0	0.034	0	5000	0	0	0	36.72	20	23.3
256	0	0.034	0	5000	0	0	0	37.78	20	23.3
257	0	0.034	0	5000	0	0	0	37.78	20	23.3
258	0	0.034	0	5000	0	0	0	36.72	20	23.3
259	0	0.034	0	5000	0	0	0	35.61	20	23.3
260	0	0.034	0	5000	0	0	0	33.89	20	23.3
261	0	0.034	0	5000	0	0	0	32.78	20	23.3
262	0	0.034	0	5000	0	0	0	30	20	23.3

263	0	0.034	0	5000	0	0	0	29.39	20	23.3
264	0	0.034	0	5000	0	0	0	28.28	20	23.3
265	0	0.034	0	5000	0	0	0	27.78	20	23.3
266	0	0.034	0	5000	0	0	0	26.72	20	23.3
267	0	0.034	0	5000	0	0	0	24.39	20	23.3
268	0	0.034	0	5000	0	0	0	23.89	20	23.3
269	0	0.034	0	5000	0	0	0	22.22	20	23.3
270	0	0.034	0	5000	0	0	0	22.78	20	23.3
271	0	0.034	0	5000	0	0	0	24.39	20	23.3
272	0	0.034	0	5000	0	0	0	27.22	20	23.3
273	0	0.034	0	5000	0	0	0	30	20	23.3
274	0	0.034	0	5000	0	0	0	32.78	20	23.3
275	0	0.034	0	5000	0	0	0	33.89	20	23.3
276	0	0.034	0	5000	0	0	0	34.39	20	23.3
277	0	0.034	0	5000	0	0	0	35.61	20	23.3
278	0	0.034	0	5000	0	0	0	36.72	20	23.3
279	0	0.034	0	5000	0	0	0	37.22	20	23.3
280	0	0.034	0	5000	0	0	0	37.78	20	23.3
281	0	0.034	0	5000	0	0	0	37.78	20	23.3
282	0	0.034	0	5000	0	0	0	37.78	20	23.3
283	0	0.034	0	5000	0	0	0	36.72	20	23.3
284	0	0.034	0	5000	0	0	0	35	20	23.3
285	0	0.034	0	5000	0	0	0	33.89	20	23.3
286	0	0.034	0	5000	0	0	0	32.78	20	23.3
287	0	0.034	0	5000	0	0	0	31.11	20	23.3
288	0	0.034	0	5000	0	0	0	31.72	20	23.3
289	0	0.034	0	5000	0	0	0	27.78	20	23.3
290	0	0.034	0	5000	0	0	0	25	20	23.3
291	0	0.034	0	5000	0	0	0	25.61	20	23.3
292	0	0.034	0	5000	0	0	0	25.61	20	23.3
293	0	0.034	0	5000	0	0	0	23.89	20	23.3
294	0	0.034	0	5000	0	0	0	23.89	20	23.3
295	0	0.034	0	5000	0	0	0	23.89	20	23.3
296	0	0.034	0	5000	0	0	0	27.22	20	23.3

297	0	0.034	0	5000	0	0	0	30.61	20	23.3
298	0	0.034	0	5000	0	0	0	33.28	20	23.3
299	0	0.034	0	5000	0	0	0	35	20	23.3
300	0	0.034	0	5000	0	0	0	37.22	20	23.3
301	0	0.034	0	5000	0	0	0	38.28	20	23.3
302	0	0.034	0	5000	0	0	0	38.28	20	23.3
303	0	0.034	0	5000	0	0	0	38.28	20	23.3
304	0	0.034	0	5000	0	0	0	38.89	20	23.3
305	0	0.034	0	5000	0	0	0	38.89	20	23.3
306	0	0.034	0	5000	0	0	0	38.28	20	23.3
307	0	0.034	0	5000	0	0	0	37.22	20	23.3
308	0	0.034	0	5000	0	0	0	35	20	23.3
309	0	0.034	0	5000	0	0	0	34.39	20	23.3
310	0	0.034	0	5000	0	0	0	30.61	20	23.3
311	0	0.034	0	5000	0	0	0	30.61	20	23.3
312	0	0.034	0	5000	0	0	0	28.89	20	23.3
313	0	0.034	0	5000	0	0	0	26.72	20	23.3
314	0	0.034	0	5000	0	0	0	24.39	20	23.3
315	0	0.034	0	5000	0	0	0	25.61	20	23.3
316	0	0.034	0	5000	0	0	0	23.28	20	23.3
317	0	0.034	0	5000	0	0	0	21.72	20	23.3
318	0	0.034	0	5000	0	0	0	22.22	20	23.3
319	0	0.034	0	5000	0	0	0	23.28	20	23.3
320	0	0.034	0	5000	0	0	0	25.61	20	23.3
321	0	0.034	0	5000	0	0	0	32.22	20	23.3
322	0	0.034	0	5000	0	0	0	33.89	20	23.3
323	0	0.034	0	5000	0	0	0	36.11	20	23.3
324	0	0.034	0	5000	0	0	0	36.11	20	23.3
325	0	0.034	0	5000	0	0	0	36.72	20	23.3
326	0	0.034	0	5000	0	0	0	37.22	20	23.3
327	0	0.034	0	5000	0	0	0	37.78	20	23.3
328	0	0.034	0	5000	0	0	0	36.72	20	23.3
329	0	0.034	0	5000	0	0	0	37.22	20	23.3
330	0	0.034	0	5000	0	0	0	36.72	20	23.3

331	0	0.034	0	5000	0	0	0	35.61	20	23.3
332	0	0.034	0	5000	0	0	0	33.89	20	23.3
333	0	0.034	0	5000	0	0	0	32.22	20	23.3
334	0	0.034	0	5000	0	0	0	30.61	20	23.3
335	0	0.034	0	5000	0	0	0	28.89	20	23.3
336	0	0.034	0	5000	0	0	0	26.72	20	23.3
337	0	0.034	0	5000	0	0	0	25.61	20	23.3
338	0	0.034	0	5000	0	0	0	25	20	23.3
339	0	0.034	0	5000	0	0	0	24.39	20	23.3
340	0	0.034	0	5000	0	0	0	23.28	20	23.3
341	0	0.034	0	5000	0	0	0	23.28	20	23.3
342	0	0.034	0	5000	0	0	0	22.78	20	23.3
343	0	0.034	0	5000	0	0	0	22.22	20	23.3
344	0	0.034	0	5000	0	0	0	26.72	20	23.3
345	0	0.034	0	5000	0	0	0	28.89	20	23.3
346	0	0.034	0	5000	0	0	0	32.78	20	23.3
347	0	0.034	0	5000	0	0	0	34.39	20	23.3
348	0	0.034	0	5000	0	0	0	36.72	20	23.3
349	0	0.034	0	5000	0	0	0	36.72	20	23.3
350	0	0.034	0	5000	0	0	0	37.78	20	23.3
351	0	0.034	0	5000	0	0	0	36.72	20	23.3
352	0	0.034	0	5000	0	0	0	37.78	20	23.3
353	0	0.034	0	5000	0	0	0	37.78	20	23.3
354	0	0.034	0	5000	0	0	0	37.78	20	23.3
355	0	0.034	0	5000	0	0	0	36.72	20	23.3
356	0	0.034	0	5000	0	0	0	35	20	23.3
357	0	0.034	0	5000	0	0	0	33.28	20	23.3
358	0	0.034	0	5000	0	0	0	31.11	20	23.3
359	0	0.034	0	5000	0	0	0	30.61	20	23.3
360	0	0.034	0	5000	0	0	0	27.78	20	23.3
361	0	0.034	0	5000	0	0	0	27.78	20	23.3
362	0	0.034	0	5000	0	0	0	25.61	20	23.3
363	0	0.034	0	5000	0	0	0	23.28	20	23.3
364	0	0.034	0	5000	0	0	0	23.89	20	23.3

365	0	0.034	0	5000	0	0	0	24.39	20	23.3
366	0	0.034	0	5000	0	0	0	23.89	20	23.3
367	0	0.034	0	5000	0	0	0	23.89	20	23.3
368	0	0.034	0	5000	0	0	0	27.78	20	23.3
369	0	0.034	0	5000	0	0	0	31.11	20	23.3
370	0	0.034	0	5000	0	0	0	32.78	20	23.3
371	0	0.034	0	5000	0	0	0	36.11	20	23.3
372	0	0.034	0	5000	0	0	0	37.22	20	23.3
373	0	0.034	0	5000	0	0	0	36.11	20	23.3
374	0	0.034	0	5000	0	0	0	38.28	20	23.3
375	0	0.034	0	5000	0	0	0	37.78	20	23.3
376	0	0.034	0	5000	0	0	0	38.89	20	23.3
377	0	0.034	0	5000	0	0	0	38.28	20	23.3
378	0	0.034	0	5000	0	0	0	36.11	20	23.3
379	0	0.034	0	5000	0	0	0	36.72	20	23.3
380	0	0.034	0	5000	0	0	0	35	20	23.3
381	0	0.034	0	5000	0	0	0	33.89	20	23.3
382	0	0.034	0	5000	0	0	0	31.72	20	23.3
383	0	0.034	0	5000	0	0	0	30	20	23.3
384	0	0.034	0	5000	0	0	0	28.89	20	23.3
385	0	0.034	0	5000	0	0	0	29.39	20	23.3
386	0	0.034	0	5000	0	0	0	27.22	20	23.3
387	0	0.034	0	5000	0	0	0	26.11	20	23.3
388	0	0.034	0	5000	0	0	0	25	20	23.3
389	0	0.034	0	5000	0	0	0	25	20	23.3
390	0	0.034	0	5000	0	0	0	25	20	23.3
391	0	0.034	0	5000	0	0	0	24.39	20	23.3
392	0	0.034	0	5000	0	0	0	27.78	20	23.3
393	0	0.034	0	5000	0	0	0	32.78	20	23.3
394	0	0.034	0	5000	0	0	0	33.89	20	23.3
395	0	0.034	0	5000	0	0	0	35.61	20	23.3
396	0	0.034	0	5000	0	0	0	36.11	20	23.3
397	0	0.034	0	5000	0	0	0	35.61	20	23.3
398	0	0.034	0	5000	0	0	0	37.78	20	23.3

399	0	0.034	0	5000	0	0	0	38.28	20	23.3
400	0	0.034	0	5000	0	0	0	37.22	20	23.3
401	0	0.034	0	5000	0	0	0	36.72	20	23.3
402	0	0.034	0	5000	0	0	0	36.11	20	23.3
403	0	0.034	0	5000	0	0	0	32.78	20	23.3
404	0	0.034	0	5000	0	0	0	30	20	23.3
405	0	0.034	0	5000	0	0	0	28.28	20	23.3
406	0	0.034	0	5000	0	0	0	28.28	20	23.3
407	0	0.034	0	5000	0	0	0	29.39	20	23.3
408	0	0.034	0	5000	0	0	0	28.89	20	23.3
409	0	0.034	0	5000	0	0	0	28.89	20	23.3
410	0	0.034	0	5000	0	0	0	27.78	20	23.3
411	0	0.034	0	5000	0	0	0	28.28	20	23.3
412	0	0.034	0	5000	0	0	0	26.72	20	23.3
413	0	0.034	0	5000	0	0	0	26.72	20	23.3
414	0	0.034	0	5000	0	0	0	26.11	20	23.3
415	0	0.034	0	5000	0	0	0	26.11	20	23.3
416	0	0.034	0	5000	0	0	0	28.28	20	23.3
417	0	0.034	0	5000	0	0	0	31.11	20	23.3
418	0	0.034	0	5000	0	0	0	32.78	20	23.3
419	0	0.034	0	5000	0	0	0	33.89	20	23.3
420	0	0.034	0	5000	0	0	0	35.61	20	23.3
421	0	0.034	0	5000	0	0	0	35.61	20	23.3
422	0	0.034	0	5000	0	0	0	36.72	20	23.3
423	0	0.034	0	5000	0	0	0	37.78	20	23.3
424	0	0.034	0	5000	0	0	0	37.78	20	23.3
425	0	0.034	0	5000	0	0	0	37.78	20	23.3
426	0	0.034	0	5000	0	0	0	36.72	20	23.3
427	0	0.034	0	5000	0	0	0	35	20	23.3
428	0	0.034	0	5000	0	0	0	33.89	20	23.3
429	0	0.034	0	5000	0	0	0	33.28	20	23.3
430	0	0.034	0	5000	0	0	0	32.78	20	23.3
431	0	0.034	0	5000	0	0	0	30	20	23.3
432	0	0.034	0	5000	0	0	0	31.11	20	23.3

433	0	0.034	0	5000	0	0	0	30	20	23.3
434	0	0.034	0	5000	0	0	0	28.28	20	23.3
435	0	0.034	0	5000	0	0	0	30	20	23.3
436	0	0.034	0	5000	0	0	0	27.78	20	23.3
437	0	0.034	0	5000	0	0	0	27.78	20	23.3
438	0	0.034	0	5000	0	0	0	29.39	20	23.3
439	0	0.034	0	5000	0	0	0	26.72	20	23.3
440	0	0.034	0	5000	0	0	0	29.39	20	23.3
441	0	0.034	0	5000	0	0	0	31.11	20	23.3
442	0	0.034	0	5000	0	0	0	33.89	20	23.3
443	0	0.034	0	5000	0	0	0	35	20	23.3
444	0	0.034	0	5000	0	0	0	36.11	20	23.3
445	0	0.034	0	5000	0	0	0	36.72	20	23.3
446	0	0.034	0	5000	0	0	0	37.78	20	23.3
447	0	0.034	0	5000	0	0	0	37.22	20	23.3
448	0	0.034	0	5000	0	0	0	37.22	20	23.3
449	0	0.034	0	5000	0	0	0	37.22	20	23.3
450	0	0.034	0	5000	0	0	0	36.11	20	23.3
451	0	0.034	0	5000	0	0	0	35	20	23.3
452	0	0.034	0	5000	0	0	0	33.28	20	23.3
453	0	0.034	0	5000	0	0	0	32.78	20	23.3
454	0	0.034	0	5000	0	0	0	29.39	20	23.3
455	0	0.034	0	5000	0	0	0	28.89	20	23.3
456	0	0.034	0	5000	0	0	0	27.22	20	23.3
457	0	0.034	0	5000	0	0	0	23.89	20	23.3
458	0	0.034	0	5000	0	0	0	25	20	23.3
459	0	0.034	0	5000	0	0	0	21.72	20	23.3
460	0	0.034	0	5000	0	0	0	21.11	20	23.3
461	0	0.034	0	5000	0	0	0	18.89	20	23.3
462	0	0.034	0	5000	0	0	0	19.39	20	23.3
463	0	0.034	0	5000	0	0	0	20	20	23.3
464	0	0.034	0	5000	0	0	0	23.89	20	23.3
465	0	0.034	0	5000	0	0	0	28.28	20	23.3
466	0	0.034	0	5000	0	0	0	29.39	20	23.3

467	0	0.034	0	5000	0	0	0	31.11	20	23.3
468	0	0.034	0	5000	0	0	0	32.78	20	23.3
469	0	0.034	0	5000	0	0	0	33.28	20	23.3
470	0	0.034	0	5000	0	0	0	35	20	23.3
471	0	0.034	0	5000	0	0	0	36.11	20	23.3
472	0	0.034	0	5000	0	0	0	36.72	20	23.3
473	0	0.034	0	5000	0	0	0	36.72	20	23.3
474	0	0.034	0	5000	0	0	0	36.72	20	23.3
475	0	0.034	0	5000	0	0	0	35.61	20	23.3
476	0	0.034	0	5000	0	0	0	31.72	20	23.3
477	0	0.034	0	5000	0	0	0	30.61	20	23.3
478	0	0.034	0	5000	0	0	0	26.11	20	23.3
479	0	0.034	0	5000	0	0	0	25.61	20	23.3
480	0	0.034	0	5000	0	0	0	21.11	20	23.3
481	0	0.034	0	5000	0	0	0	21.72	20	23.3
482	0	0.034	0	5000	0	0	0	20	20	23.3
483	0	0.034	0	5000	0	0	0	17.22	20	23.3
484	0	0.034	0	5000	0	0	0	17.78	20	23.3
485	0	0.034	0	5000	0	0	0	17.22	20	23.3
486	0	0.034	0	5000	0	0	0	17.22	20	23.3
487	0	0.034	0	5000	0	0	0	18.28	20	23.3
488	0	0.034	0	5000	0	0	0	22.78	20	23.3
489	0	0.034	0	5000	0	0	0	26.11	20	23.3
490	0	0.034	0	5000	0	0	0	30.61	20	23.3
491	0	0.034	0	5000	0	0	0	33.28	20	23.3
492	0	0.034	0	5000	0	0	0	34.39	20	23.3
493	0	0.034	0	5000	0	0	0	35.61	20	23.3
494	0	0.034	0	5000	0	0	0	37.78	20	23.3
495	0	0.034	0	5000	0	0	0	38.28	20	23.3
496	0	0.034	0	5000	0	0	0	38.28	20	23.3
497	0	0.034	0	5000	0	0	0	38.89	20	23.3
498	0	0.034	0	5000	0	0	0	37.78	20	23.3
499	0	0.034	0	5000	0	0	0	36.72	20	23.3
500	0	0.034	0	5000	0	0	0	34.39	20	23.3

501	0	0.034	0	5000	0	0	0	31.11	20	23.3
502	0	0.034	0	5000	0	0	0	29.39	20	23.3
503	0	0.034	0	5000	0	0	0	26.72	20	23.3
504	0	0.034	0	5000	0	0	0	25	20	23.3
505	0	0.034	0	5000	0	0	0	22.78	20	23.3
506	0	0.034	0	5000	0	0	0	22.22	20	23.3
507	0	0.034	0	5000	0	0	0	21.72	20	23.3
508	0	0.034	0	5000	0	0	0	19.39	20	23.3
509	0	0.034	0	5000	0	0	0	18.89	20	23.3
510	0	0.034	0	5000	0	0	0	18.89	20	23.3
511	0	0.034	0	5000	0	0	0	18.89	20	23.3
512	0	0.034	0	5000	0	0	0	25	20	23.3
513	0	0.034	0	5000	0	0	0	27.22	20	23.3
514	0	0.034	0	5000	0	0	0	31.11	20	23.3
515	0	0.034	0	5000	0	0	0	33.89	20	23.3
516	0	0.034	0	5000	0	0	0	35	20	23.3
517	0	0.034	0	5000	0	0	0	36.72	20	23.3
518	0	0.034	0	5000	0	0	0	38.28	20	23.3
519	0	0.034	0	5000	0	0	0	37.78	20	23.3
520	0	0.034	0	5000	0	0	0	38.28	20	23.3
521	0	0.034	0	5000	0	0	0	38.89	20	23.3
522	0	0.034	0	5000	0	0	0	37.78	20	23.3
523	0	0.034	0	5000	0	0	0	36.72	20	23.3
524	0	0.034	0	5000	0	0	0	35	20	23.3
525	0	0.034	0	5000	0	0	0	31.11	20	23.3
526	0	0.034	0	5000	0	0	0	30	20	23.3
527	0	0.034	0	5000	0	0	0	30	20	23.3
528	0	0.034	0	5000	0	0	0	25	20	23.3
529	0	0.034	0	5000	0	0	0	25	20	23.3
530	0	0.034	0	5000	0	0	0	23.89	20	23.3
531	0	0.034	0	5000	0	0	0	23.89	20	23.3
532	0	0.034	0	5000	0	0	0	20.61	20	23.3
533	0	0.034	0	5000	0	0	0	21.11	20	23.3
534	0	0.034	0	5000	0	0	0	21.72	20	23.3

535	0	0.034	0	5000	0	0	0	21.11	20	23.3
536	0	0.034	0	5000	0	0	0	26.11	20	23.3
537	0	0.034	0	5000	0	0	0	27.78	20	23.3
538	0	0.034	0	5000	0	0	0	30	20	23.3
539	0	0.034	0	5000	0	0	0	31.72	20	23.3
540	0	0.034	0	5000	0	0	0	33.28	20	23.3
541	0	0.034	0	5000	0	0	0	34.39	20	23.3
542	0	0.034	0	5000	0	0	0	36.11	20	23.3
543	0	0.034	0	5000	0	0	0	36.11	20	23.3
544	0	0.034	0	5000	0	0	0	36.72	20	23.3
545	0	0.034	0	5000	0	0	0	37.22	20	23.3
546	0	0.034	0	5000	0	0	0	37.22	20	23.3
547	0	0.034	0	5000	0	0	0	36.11	20	23.3
548	0	0.034	0	5000	0	0	0	33.89	20	23.3
549	0	0.034	0	5000	0	0	0	33.28	20	23.3
550	0	0.034	0	5000	0	0	0	30	20	23.3
551	0	0.034	0	5000	0	0	0	28.28	20	23.3
552	0	0.034	0	5000	0	0	0	24.39	20	23.3
553	0	0.034	0	5000	0	0	0	24.39	20	23.3
554	0	0.034	0	5000	0	0	0	25	20	23.3
555	0	0.034	0	5000	0	0	0	22.22	20	23.3
556	0	0.034	0	5000	0	0	0	21.72	20	23.3
557	0	0.034	0	5000	0	0	0	20	20	23.3
558	0	0.034	0	5000	0	0	0	18.89	20	23.3
559	0	0.034	0	5000	0	0	0	20	20	23.3
560	0	0.034	0	5000	0	0	0	25	20	23.3
561	0	0.034	0	5000	0	0	0	28.89	20	23.3
562	0	0.034	0	5000	0	0	0	31.72	20	23.3
563	0	0.034	0	5000	0	0	0	33.89	20	23.3
564	0	0.034	0	5000	0	0	0	35.61	20	23.3
565	0	0.034	0	5000	0	0	0	37.22	20	23.3
566	0	0.034	0	5000	0	0	0	37.22	20	23.3
567	0	0.034	0	5000	0	0	0	37.22	20	23.3
568	0	0.034	0	5000	0	0	0	38.28	20	23.3

569	0	0.034	0	5000	0	0	0	38.28	20	23.3
570	0	0.034	0	5000	0	0	0	37.78	20	23.3
571	0	0.034	0	5000	0	0	0	36.72	20	23.3
572	0	0.034	0	5000	0	0	0	33.28	20	23.3
573	0	0.034	0	5000	0	0	0	32.22	20	23.3
574	0	0.034	0	5000	0	0	0	30	20	23.3
575	0	0.034	0	5000	0	0	0	27.78	20	23.3
576	0	0.034	0	5000	0	0	0	27.22	20	23.3
577	0	0.034	0	5000	0	0	0	25.61	20	23.3
578	0	0.034	0	5000	0	0	0	27.22	20	23.3
579	0	0.034	0	5000	0	0	0	23.89	20	23.3
580	0	0.034	0	5000	0	0	0	21.72	20	23.3
581	0	0.034	0	5000	0	0	0	22.22	20	23.3
582	0	0.034	0	5000	0	0	0	21.11	20	23.3
583	0	0.034	0	5000	0	0	0	23.28	20	23.3
584	0	0.034	0	5000	0	0	0	26.11	20	23.3
585	0	0.034	0	5000	0	0	0	29.39	20	23.3
586	0	0.034	0	5000	0	0	0	33.89	20	23.3
587	0	0.034	0	5000	0	0	0	35	20	23.3
588	0	0.034	0	5000	0	0	0	36.11	20	23.3
589	0	0.034	0	5000	0	0	0	36.72	20	23.3
590	0	0.034	0	5000	0	0	0	37.78	20	23.3
591	0	0.034	0	5000	0	0	0	35.61	20	23.3
592	0	0.034	0	5000	0	0	0	34.39	20	23.3
593	0	0.034	0	5000	0	0	0	30	20	23.3
594	0	0.034	0	5000	0	0	0	32.22	20	23.3
595	0	0.034	0	5000	0	0	0	31.72	20	23.3
596	0	0.034	0	5000	0	0	0	30	20	23.3
597	0	0.034	0	5000	0	0	0	28.89	20	23.3
598	0	0.034	0	5000	0	0	0	28.89	20	23.3
599	0	0.034	0	5000	0	0	0	25.61	20	23.3
600	0	0.034	0	5000	0	0	0	26.11	20	23.3
601	0	0.034	0	5000	0	0	0	26.11	20	23.3
602	0	0.034	0	5000	0	0	0	23.28	20	23.3

603	0	0.034	0	5000	0	0	0	23.89	20	23.3
604	0	0.034	0	5000	0	0	0	21.72	20	23.3
605	0	0.034	0	5000	0	0	0	21.72	20	23.3
606	0	0.034	0	5000	0	0	0	21.11	20	23.3
607	0	0.034	0	5000	0	0	0	22.22	20	23.3
608	0	0.034	0	5000	0	0	0	23.89	20	23.3
609	0	0.034	0	5000	0	0	0	28.28	20	23.3
610	0	0.034	0	5000	0	0	0	30.61	20	23.3
611	0	0.034	0	5000	0	0	0	31.11	20	23.3
612	0	0.034	0	5000	0	0	0	32.78	20	23.3
613	0	0.034	0	5000	0	0	0	32.78	20	23.3
614	0	0.034	0	5000	0	0	0	31.11	20	23.3
615	0	0.034	0	5000	0	0	0	31.11	20	23.3
616	0	0.034	0	5000	0	0	0	28.89	20	23.3
617	0	0.034	0	5000	0	0	0	29.39	20	23.3
618	0	0.034	0	5000	0	0	0	28.89	20	23.3
619	0	0.034	0	5000	0	0	0	28.89	20	23.3
620	0	0.034	0	5000	0	0	0	27.78	20	23.3
621	0	0.034	0	5000	0	0	0	25.61	20	23.3
622	0	0.034	0	5000	0	0	0	25.61	20	23.3
623	0	0.034	0	5000	0	0	0	25.61	20	23.3
624	0	0.034	0	5000	0	0	0	25	20	23.3
625	0	0.034	0	5000	0	0	0	24.39	20	23.3
626	0	0.034	0	5000	0	0	0	22.78	20	23.3
627	0	0.034	0	5000	0	0	0	23.28	20	23.3
628	0	0.034	0	5000	0	0	0	23.28	20	23.3
629	0	0.034	0	5000	0	0	0	23.89	20	23.3
630	0	0.034	0	5000	0	0	0	22.78	20	23.3
631	0	0.034	0	5000	0	0	0	21.72	20	23.3
632	0	0.034	0	5000	0	0	0	23.28	20	23.3
633	0	0.034	0	5000	0	0	0	23.89	20	23.3
634	0	0.034	0	5000	0	0	0	25.61	20	23.3
635	0	0.034	0	5000	0	0	0	27.78	20	23.3
636	0	0.034	0	5000	0	0	0	28.28	20	23.3

637	0	0.034	0	5000	0	0	0	30.61	20	23.3
638	0	0.034	0	5000	0	0	0	31.11	20	23.3
639	0	0.034	0	5000	0	0	0	31.72	20	23.3
640	0	0.034	0	5000	0	0	0	32.22	20	23.3
641	0	0.034	0	5000	0	0	0	31.72	20	23.3
642	0	0.034	0	5000	0	0	0	31.72	20	23.3
643	0	0.034	0	5000	0	0	0	31.11	20	23.3
644	0	0.034	0	5000	0	0	0	29.39	20	23.3
645	0	0.034	0	5000	0	0	0	28.28	20	23.3
646	0	0.034	0	5000	0	0	0	27.22	20	23.3
647	0	0.034	0	5000	0	0	0	26.72	20	23.3
648	0	0.034	0	5000	0	0	0	26.11	20	23.3
649	0	0.034	0	5000	0	0	0	25.61	20	23.3
650	0	0.034	0	5000	0	0	0	22.22	20	23.3
651	0	0.034	0	5000	0	0	0	23.28	20	23.3
652	0	0.034	0	5000	0	0	0	21.72	20	23.3
653	0	0.034	0	5000	0	0	0	21.11	20	23.3
654	0	0.034	0	5000	0	0	0	21.72	20	23.3
655	0	0.034	0	5000	0	0	0	21.72	20	23.3
656	0	0.034	0	5000	0	0	0	25	20	23.3
657	0	0.034	0	5000	0	0	0	27.22	20	23.3
658	0	0.034	0	5000	0	0	0	29.39	20	23.3
659	0	0.034	0	5000	0	0	0	31.11	20	23.3
660	0	0.034	0	5000	0	0	0	32.22	20	23.3
661	0	0.034	0	5000	0	0	0	32.78	20	23.3
662	0	0.034	0	5000	0	0	0	33.89	20	23.3
663	0	0.034	0	5000	0	0	0	35	20	23.3
664	0	0.034	0	5000	0	0	0	36.11	20	23.3
665	0	0.034	0	5000	0	0	0	35.61	20	23.3
666	0	0.034	0	5000	0	0	0	35	20	23.3
667	0	0.034	0	5000	0	0	0	34.39	20	23.3
668	0	0.034	0	5000	0	0	0	33.28	20	23.3
669	0	0.034	0	5000	0	0	0	32.22	20	23.3
670	0	0.034	0	5000	0	0	0	31.11	20	23.3

671	0	0.034	0	5000	0	0	0	27.78	20	23.3
672	0	0.034	0	5000	0	0	0	28.89	20	23.3
673	0	0.034	0	5000	0	0	0	29.39	20	23.3
674	0	0.034	0	5000	0	0	0	27.78	20	23.3
675	0	0.034	0	5000	0	0	0	24.39	20	23.3
676	0	0.034	0	5000	0	0	0	23.89	20	23.3
677	0	0.034	0	5000	0	0	0	22.78	20	23.3
678	0	0.034	0	5000	0	0	0	21.72	20	23.3
679	0	0.034	0	5000	0	0	0	22.78	20	23.3
680	0	0.034	0	5000	0	0	0	26.11	20	23.3
681	0	0.034	0	5000	0	0	0	28.89	20	23.3
682	0	0.034	0	5000	0	0	0	31.11	20	23.3
683	0	0.034	0	5000	0	0	0	33.28	20	23.3
684	0	0.034	0	5000	0	0	0	35	20	23.3
685	0	0.034	0	5000	0	0	0	36.72	20	23.3
686	0	0.034	0	5000	0	0	0	37.22	20	23.3
687	0	0.034	0	5000	0	0	0	37.22	20	23.3
688	0	0.034	0	5000	0	0	0	37.78	20	23.3
689	0	0.034	0	5000	0	0	0	37.22	20	23.3
690	0	0.034	0	5000	0	0	0	37.22	20	23.3
691	0	0.034	0	5000	0	0	0	36.11	20	23.3
692	0	0.034	0	5000	0	0	0	34.39	20	23.3
693	0	0.034	0	5000	0	0	0	33.28	20	23.3
694	0	0.034	0	5000	0	0	0	30.61	20	23.3
695	0	0.034	0	5000	0	0	0	31.11	20	23.3
696	0	0.034	0	5000	0	0	0	28.28	20	23.3
697	0	0.034	0	5000	0	0	0	26.11	20	23.3
698	0	0.034	0	5000	0	0	0	27.78	20	23.3
699	0	0.034	0	5000	0	0	0	24.39	20	23.3
700	0	0.034	0	5000	0	0	0	25.61	20	23.3
701	0	0.034	0	5000	0	0	0	24.39	20	23.3
702	0	0.034	0	5000	0	0	0	23.89	20	23.3
703	0	0.034	0	5000	0	0	0	25	20	23.3
704	0	0.034	0	5000	0	0	0	27.22	20	23.3

705	0	0.034	0	5000	0	0	0	30.61	20	23.3
706	0	0.034	0	5000	0	0	0	32.78	20	23.3
707	0	0.034	0	5000	0	0	0	33.89	20	23.3
708	0	0.034	0	5000	0	0	0	33.28	20	23.3
709	0	0.034	0	5000	0	0	0	33.89	20	23.3
710	0	0.034	0	5000	0	0	0	32.22	20	23.3
711	0	0.034	0	5000	0	0	0	32.22	20	23.3
712	0	0.034	0	5000	0	0	0	31.72	20	23.3
713	0	0.034	0	5000	0	0	0	31.72	20	23.3
714	0	0.034	0	5000	0	0	0	32.22	20	23.3
715	0	0.034	0	5000	0	0	0	31.72	20	23.3
716	0	0.034	0	5000	0	0	0	30	20	23.3
717	0	0.034	0	5000	0	0	0	28.89	20	23.3
718	0	0.034	0	5000	0	0	0	28.28	20	23.3
719	0	0.034	0	5000	0	0	0	27.78	20	23.3
720	0	0.034	0	5000	0	0	0	27.22	20	23.3

end*** END OF INPUT FILE 'ATMOSPH.IN' *****

Qp2

Pcp_File_Version=4

*** BLOCK I: ATMOSPHERIC INFORMATION *****

MaxAL (MaxAL = number of atmospheric data-records)

720

DailyVar SinusVar IDummy IDummy IDummy IDummy IDummy IDummy IDummy IDummy

f f f f f t f f f f

hCritS (max. allowed pressure head at the soil surface)

0

tAtm	Prec	rSoil	rRoot	hCritA	rB	hB	ht	tTop	tBot	Ampl	RootDepth
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2	0	0.034	0	5000	0	0	26.72	20	23.3		
3	0	0.034	0	5000	0	0	26.72	20	23.3		
4	0	0.034	0	5000	0	0	25.61	20	23.3		
5	0	0.034	0	5000	0	0	24.39	20	23.3		
6	0	0.034	0	5000	0	0	23.89	20	23.3		
7	0	0.034	0	5000	0	0	23.89	20	23.3		
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9	0	0.034	0	5000	0	0	25	20	23.3		
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17	0	0.034	0	5000	0	0	24.39	20	23.3		
18	0	0.034	0	5000	0	0	22.78	20	23.3		
19	0	0.034	0	5000	0	0	22.78	20	23.3		
20	0	0.034	0	5000	0	0	22.22	20	23.3		
21	0	0.034	0	5000	0	0	22.78	20	23.3		
22	0	0.034	0	5000	0	0	22.22	20	23.3		
23	0	0.034	0	5000	0	0	22.78	20	23.3		
24	0	0.034	0	5000	0	0	22.22	20	23.3		

430

25	0	0.034	0	5000	0	0	0	21.72	20	23.3
26	0	0.034	0	5000	0	0	0	22.22	20	23.3
27	0	0.034	0	5000	0	0	0	21.72	20	23.3
28	0	0.034	0	5000	0	0	0	21.72	20	23.3
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31	0	0.034	0	5000	0	0	0	22.22	20	23.3
32	0	0.034	0	5000	0	0	0	23.89	20	23.3
33	0	0.034	0	5000	0	0	0	25	20	23.3
34	0	0.034	0	5000	0	0	0	26.11	20	23.3
35	0	0.034	0	5000	0	0	0	27.78	20	23.3
36	0	0.034	0	5000	0	0	0	29.39	20	23.3
37	0	0.034	0	5000	0	0	0	30.61	20	23.3
38	0	0.034	0	5000	0	0	0	31.11	20	23.3
39	0	0.034	0	5000	0	0	0	32.22	20	23.3
40	0	0.034	0	5000	0	0	0	31.72	20	23.3
41	0	0.034	0	5000	0	0	0	31.72	20	23.3
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43	0	0.034	0	5000	0	0	0	31.11	20	23.3
44	0	0.034	0	5000	0	0	0	23.28	20	23.3
45	0	0.034	0	5000	0	0	0	25.61	20	23.3
46	0	0.034	0	5000	0	0	0	23.89	20	23.3
47	0	0.034	0	5000	0	0	0	24.39	20	23.3
48	0	0.034	0	5000	0	0	0	23.28	20	23.3
49	0	0.034	0	5000	0	0	0	22.78	20	23.3
50	0	0.034	0	5000	0	0	0	22.78	20	23.3
51	0	0.034	0	5000	0	0	0	22.78	20	23.3
52	0	0.034	0	5000	0	0	0	21.11	20	23.3
53	0	0.034	0	5000	0	0	0	21.11	20	23.3
54	0	0.034	0	5000	0	0	0	20.61	20	23.3
55	0	0.034	0	5000	0	0	0	21.72	20	23.3
56	0	0.034	0	5000	0	0	0	24.39	20	23.3
57	0	0.034	0	5000	0	0	0	26.11	20	23.3
58	0	0.034	0	5000	0	0	0	28.89	20	23.3

59	0	0.034	0	5000	0	0	0	30.61	20	23.3
60	0	0.034	0	5000	0	0	0	32.22	20	23.3
61	0	0.034	0	5000	0	0	0	33.28	20	23.3
62	0	0.034	0	5000	0	0	0	33.89	20	23.3
63	0	0.034	0	5000	0	0	0	35.61	20	23.3
64	0	0.034	0	5000	0	0	0	36.11	20	23.3
65	0	0.034	0	5000	0	0	0	36.72	20	23.3
66	0	0.034	0	5000	0	0	0	36.11	20	23.3
67	0	0.034	0	5000	0	0	0	33.28	20	23.3
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73	0	0.034	0	5000	0	0	0	26.11	20	23.3
74	0	0.034	0	5000	0	0	0	25.61	20	23.3
75	0	0.034	0	5000	0	0	0	25	20	23.3
76	0	0.034	0	5000	0	0	0	23.28	20	23.3
77	0	0.034	0	5000	0	0	0	22.22	20	23.3
78	0	0.034	0	5000	0	0	0	20.61	20	23.3
79	0	0.034	0	5000	0	0	0	22.78	20	23.3
80	0	0.034	0	5000	0	0	0	26.72	20	23.3
81	0	0.034	0	5000	0	0	0	28.89	20	23.3
82	0	0.034	0	5000	0	0	0	32.22	20	23.3
83	0	0.034	0	5000	0	0	0	35	20	23.3
84	0	0.034	0	5000	0	0	0	35.61	20	23.3
85	0	0.034	0	5000	0	0	0	37.22	20	23.3
86	0	0.034	0	5000	0	0	0	37.22	20	23.3
87	0	0.034	0	5000	0	0	0	36.72	20	23.3
88	0	0.034	0	5000	0	0	0	37.22	20	23.3
89	0	0.034	0	5000	0	0	0	37.78	20	23.3
90	0	0.034	0	5000	0	0	0	37.22	20	23.3
91	0	0.034	0	5000	0	0	0	36.72	20	23.3
92	0	0.034	0	5000	0	0	0	35.61	20	23.3

93	0	0.034	0	5000	0	0	0	33.89	20	23.3
94	0	0.034	0	5000	0	0	0	32.22	20	23.3
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100	0	0.034	0	5000	0	0	0	27.22	20	23.3
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104	0	0.034	0	5000	0	0	0	28.28	20	23.3
105	0	0.034	0	5000	0	0	0	31.11	20	23.3
106	0	0.034	0	5000	0	0	0	33.89	20	23.3
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112	0	0.034	0	5000	0	0	0	36.72	20	23.3
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116	0	0.034	0	5000	0	0	0	32.78	20	23.3
117	0	0.034	0	5000	0	0	0	31.11	20	23.3
118	0	0.034	0	5000	0	0	0	30.61	20	23.3
119	0	0.034	0	5000	0	0	0	30	20	23.3
120	0	0.034	0	5000	0	0	0	28.89	20	23.3
121	0	0.034	0	5000	0	0	0	27.78	20	23.3
122	0	0.034	0	5000	0	0	0	25.61	20	23.3
123	0	0.034	0	5000	0	0	0	23.28	20	23.3
124	0	0.034	0	5000	0	0	0	23.89	20	23.3
125	0	0.034	0	5000	0	0	0	23.28	20	23.3
126	0	0.034	0	5000	0	0	0	22.78	20	23.3

127	0	0.034	0	5000	0	0	0	22.78	20	23.3
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129	0	0.034	0	5000	0	0	0	27.22	20	23.3
130	0	0.034	0	5000	0	0	0	29.39	20	23.3
131	0	0.034	0	5000	0	0	0	31.11	20	23.3
132	0	0.034	0	5000	0	0	0	32.22	20	23.3
133	0	0.034	0	5000	0	0	0	33.28	20	23.3
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139	0	0.034	0	5000	0	0	0	32.78	20	23.3
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142	0	0.034	0	5000	0	0	0	25.61	20	23.3
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154	0	0.034	0	5000	0	0	0	26.11	20	23.3
155	0	0.034	0	5000	0	0	0	28.28	20	23.3
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159	0	0.034	0	5000	0	0	0	33.89	20	23.3
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161	0	0.034	0	5000	0	0	0	33.89	20	23.3
162	0	0.034	0	5000	0	0	0	33.89	20	23.3
163	0	0.034	0	5000	0	0	0	32.78	20	23.3
164	0	0.034	0	5000	0	0	0	30.61	20	23.3
165	0	0.034	0	5000	0	0	0	29.39	20	23.3
166	0	0.034	0	5000	0	0	0	26.72	20	23.3
167	0	0.034	0	5000	0	0	0	26.72	20	23.3
168	0	0.034	0	5000	0	0	0	23.28	20	23.3
169	0	0.034	0	5000	0	0	0	23.89	20	23.3
170	0	0.034	0	5000	0	0	0	19.39	20	23.3
171	0	0.034	0	5000	0	0	0	17.78	20	23.3
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179	0	0.034	0	5000	0	0	0	31.72	20	23.3
180	0	0.034	0	5000	0	0	0	32.22	20	23.3
181	0	0.034	0	5000	0	0	0	33.28	20	23.3
182	0	0.034	0	5000	0	0	0	33.89	20	23.3
183	0	0.034	0	5000	0	0	0	34.39	20	23.3
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185	0	0.034	0	5000	0	0	0	35.61	20	23.3
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188	0	0.034	0	5000	0	0	0	31.72	20	23.3
189	0	0.034	0	5000	0	0	0	30.61	20	23.3
190	0	0.034	0	5000	0	0	0	28.89	20	23.3
191	0	0.034	0	5000	0	0	0	25.61	20	23.3
192	0	0.034	0	5000	0	0	0	27.22	20	23.3
193	0	0.034	0	5000	0	0	0	22.22	20	23.3
194	0	0.034	0	5000	0	0	0	19.39	20	23.3

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196	0	0.034	0	5000	0	0	0	20	20	23.3
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199	0	0.034	0	5000	0	0	0	19.39	20	23.3
200	0	0.034	0	5000	0	0	0	23.89	20	23.3
201	0	0.034	0	5000	0	0	0	26.72	20	23.3
202	0	0.034	0	5000	0	0	0	29.39	20	23.3
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211	0	0.034	0	5000	0	0	0	33.89	20	23.3
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218	0	0.034	0	5000	0	0	0	23.89	20	23.3
219	0	0.034	0	5000	0	0	0	21.11	20	23.3
220	0	0.034	0	5000	0	0	0	21.72	20	23.3
221	0	0.034	0	5000	0	0	0	20	20	23.3
222	0	0.034	0	5000	0	0	0	17.78	20	23.3
223	0	0.034	0	5000	0	0	0	19.39	20	23.3
224	0	0.034	0	5000	0	0	0	22.78	20	23.3
225	0	0.034	0	5000	0	0	0	26.11	20	23.3
226	0	0.034	0	5000	0	0	0	29.39	20	23.3
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228	0	0.034	0	5000	0	0	0	32.78	20	23.3

229	0	0.034	0	5000	0	0	0	33.89	20	23.3
230	0	0.034	0	5000	0	0	0	35	20	23.3
231	0	0.034	0	5000	0	0	0	35.61	20	23.3
232	0	0.034	0	5000	0	0	0	36.72	20	23.3
233	0	0.034	0	5000	0	0	0	37.22	20	23.3
234	0	0.034	0	5000	0	0	0	36.11	20	23.3
235	0	0.034	0	5000	0	0	0	35	20	23.3
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238	0	0.034	0	5000	0	0	0	30	20	23.3
239	0	0.034	0	5000	0	0	0	27.22	20	23.3
240	0	0.034	0	5000	0	0	0	25	20	23.3
241	0	0.034	0	5000	0	0	0	25	20	23.3
242	0	0.034	0	5000	0	0	0	23.89	20	23.3
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244	0	0.034	0	5000	0	0	0	20	20	23.3
245	0	0.034	0	5000	0	0	0	20	20	23.3
246	0	0.034	0	5000	0	0	0	18.28	20	23.3
247	0	0.034	0	5000	0	0	0	20.61	20	23.3
248	0	0.034	0	5000	0	0	0	23.89	20	23.3
249	0	0.034	0	5000	0	0	0	27.22	20	23.3
250	0	0.034	0	5000	0	0	0	32.78	20	23.3
251	0	0.034	0	5000	0	0	0	33.28	20	23.3
252	0	0.034	0	5000	0	0	0	35.61	20	23.3
253	0	0.034	0	5000	0	0	0	35.61	20	23.3
254	0	0.034	0	5000	0	0	0	36.11	20	23.3
255	0	0.034	0	5000	0	0	0	36.72	20	23.3
256	0	0.034	0	5000	0	0	0	37.78	20	23.3
257	0	0.034	0	5000	0	0	0	37.78	20	23.3
258	0	0.034	0	5000	0	0	0	36.72	20	23.3
259	0	0.034	0	5000	0	0	0	35.61	20	23.3
260	0	0.034	0	5000	0	0	0	33.89	20	23.3
261	0	0.034	0	5000	0	0	0	32.78	20	23.3
262	0	0.034	0	5000	0	0	0	30	20	23.3

263	0	0.034	0	5000	0	0	0	29.39	20	23.3
264	0	0.034	0	5000	0	0	0	28.28	20	23.3
265	0	0.034	0	5000	0	0	0	27.78	20	23.3
266	0	0.034	0	5000	0	0	0	26.72	20	23.3
267	0	0.034	0	5000	0	0	0	24.39	20	23.3
268	0	0.034	0	5000	0	0	0	23.89	20	23.3
269	0	0.034	0	5000	0	0	0	22.22	20	23.3
270	0	0.034	0	5000	0	0	0	22.78	20	23.3
271	0	0.034	0	5000	0	0	0	24.39	20	23.3
272	0	0.034	0	5000	0	0	0	27.22	20	23.3
273	0	0.034	0	5000	0	0	0	30	20	23.3
274	0	0.034	0	5000	0	0	0	32.78	20	23.3
275	0	0.034	0	5000	0	0	0	33.89	20	23.3
276	0	0.034	0	5000	0	0	0	34.39	20	23.3
277	0	0.034	0	5000	0	0	0	35.61	20	23.3
278	0	0.034	0	5000	0	0	0	36.72	20	23.3
279	0	0.034	0	5000	0	0	0	37.22	20	23.3
280	0	0.034	0	5000	0	0	0	37.78	20	23.3
281	0	0.034	0	5000	0	0	0	37.78	20	23.3
282	0	0.034	0	5000	0	0	0	37.78	20	23.3
283	0	0.034	0	5000	0	0	0	36.72	20	23.3
284	0	0.034	0	5000	0	0	0	35	20	23.3
285	0	0.034	0	5000	0	0	0	33.89	20	23.3
286	0	0.034	0	5000	0	0	0	32.78	20	23.3
287	0	0.034	0	5000	0	0	0	31.11	20	23.3
288	0	0.034	0	5000	0	0	0	31.72	20	23.3
289	0	0.034	0	5000	0	0	0	27.78	20	23.3
290	0	0.034	0	5000	0	0	0	25	20	23.3
291	0	0.034	0	5000	0	0	0	25.61	20	23.3
292	0	0.034	0	5000	0	0	0	25.61	20	23.3
293	0	0.034	0	5000	0	0	0	23.89	20	23.3
294	0	0.034	0	5000	0	0	0	23.89	20	23.3
295	0	0.034	0	5000	0	0	0	23.89	20	23.3
296	0	0.034	0	5000	0	0	0	27.22	20	23.3

297	0	0.034	0	5000	0	0	0	30.61	20	23.3
298	0	0.034	0	5000	0	0	0	33.28	20	23.3
299	0	0.034	0	5000	0	0	0	35	20	23.3
300	0	0.034	0	5000	0	0	0	37.22	20	23.3
301	0	0.034	0	5000	0	0	0	38.28	20	23.3
302	0	0.034	0	5000	0	0	0	38.28	20	23.3
303	0	0.034	0	5000	0	0	0	38.28	20	23.3
304	0	0.034	0	5000	0	0	0	38.89	20	23.3
305	0	0.034	0	5000	0	0	0	38.89	20	23.3
306	0	0.034	0	5000	0	0	0	38.28	20	23.3
307	0	0.034	0	5000	0	0	0	37.22	20	23.3
308	0	0.034	0	5000	0	0	0	35	20	23.3
309	0	0.034	0	5000	0	0	0	34.39	20	23.3
310	0	0.034	0	5000	0	0	0	30.61	20	23.3
311	0	0.034	0	5000	0	0	0	30.61	20	23.3
312	0	0.034	0	5000	0	0	0	28.89	20	23.3
313	0	0.034	0	5000	0	0	0	26.72	20	23.3
314	0	0.034	0	5000	0	0	0	24.39	20	23.3
315	0	0.034	0	5000	0	0	0	25.61	20	23.3
316	0	0.034	0	5000	0	0	0	23.28	20	23.3
317	0	0.034	0	5000	0	0	0	21.72	20	23.3
318	0	0.034	0	5000	0	0	0	22.22	20	23.3
319	0	0.034	0	5000	0	0	0	23.28	20	23.3
320	0	0.034	0	5000	0	0	0	25.61	20	23.3
321	0	0.034	0	5000	0	0	0	32.22	20	23.3
322	0	0.034	0	5000	0	0	0	33.89	20	23.3
323	0	0.034	0	5000	0	0	0	36.11	20	23.3
324	0	0.034	0	5000	0	0	0	36.11	20	23.3
325	0	0.034	0	5000	0	0	0	36.72	20	23.3
326	0	0.034	0	5000	0	0	0	37.22	20	23.3
327	0	0.034	0	5000	0	0	0	37.78	20	23.3
328	0	0.034	0	5000	0	0	0	36.72	20	23.3
329	0	0.034	0	5000	0	0	0	37.22	20	23.3
330	0	0.034	0	5000	0	0	0	36.72	20	23.3

331	0	0.034	0	5000	0	0	0	35.61	20	23.3
332	0	0.034	0	5000	0	0	0	33.89	20	23.3
333	0	0.034	0	5000	0	0	0	32.22	20	23.3
334	0	0.034	0	5000	0	0	0	30.61	20	23.3
335	0	0.034	0	5000	0	0	0	28.89	20	23.3
336	0	0.034	0	5000	0	0	0	26.72	20	23.3
337	0	0.034	0	5000	0	0	0	25.61	20	23.3
338	0	0.034	0	5000	0	0	0	25	20	23.3
339	0	0.034	0	5000	0	0	0	24.39	20	23.3
340	0	0.034	0	5000	0	0	0	23.28	20	23.3
341	0	0.034	0	5000	0	0	0	23.28	20	23.3
342	0	0.034	0	5000	0	0	0	22.78	20	23.3
343	0	0.034	0	5000	0	0	0	22.22	20	23.3
344	0	0.034	0	5000	0	0	0	26.72	20	23.3
345	0	0.034	0	5000	0	0	0	28.89	20	23.3
346	0	0.034	0	5000	0	0	0	32.78	20	23.3
347	0	0.034	0	5000	0	0	0	34.39	20	23.3
348	0	0.034	0	5000	0	0	0	36.72	20	23.3
349	0	0.034	0	5000	0	0	0	36.72	20	23.3
350	0	0.034	0	5000	0	0	0	37.78	20	23.3
351	0	0.034	0	5000	0	0	0	36.72	20	23.3
352	0	0.034	0	5000	0	0	0	37.78	20	23.3
353	0	0.034	0	5000	0	0	0	37.78	20	23.3
354	0	0.034	0	5000	0	0	0	37.78	20	23.3
355	0	0.034	0	5000	0	0	0	36.72	20	23.3
356	0	0.034	0	5000	0	0	0	35	20	23.3
357	0	0.034	0	5000	0	0	0	33.28	20	23.3
358	0	0.034	0	5000	0	0	0	31.11	20	23.3
359	0	0.034	0	5000	0	0	0	30.61	20	23.3
360	0	0.034	0	5000	0	0	0	27.78	20	23.3
361	0	0.034	0	5000	0	0	0	27.78	20	23.3
362	0	0.034	0	5000	0	0	0	25.61	20	23.3
363	0	0.034	0	5000	0	0	0	23.28	20	23.3
364	0	0.034	0	5000	0	0	0	23.89	20	23.3

365	0	0.034	0	5000	0	0	0	24.39	20	23.3
366	0	0.034	0	5000	0	0	0	23.89	20	23.3
367	0	0.034	0	5000	0	0	0	23.89	20	23.3
368	0	0.034	0	5000	0	0	0	27.78	20	23.3
369	0	0.034	0	5000	0	0	0	31.11	20	23.3
370	0	0.034	0	5000	0	0	0	32.78	20	23.3
371	0	0.034	0	5000	0	0	0	36.11	20	23.3
372	0	0.034	0	5000	0	0	0	37.22	20	23.3
373	0	0.034	0	5000	0	0	0	36.11	20	23.3
374	0	0.034	0	5000	0	0	0	38.28	20	23.3
375	0	0.034	0	5000	0	0	0	37.78	20	23.3
376	0	0.034	0	5000	0	0	0	38.89	20	23.3
377	0	0.034	0	5000	0	0	0	38.28	20	23.3
378	0	0.034	0	5000	0	0	0	36.11	20	23.3
379	0	0.034	0	5000	0	0	0	36.72	20	23.3
380	0	0.034	0	5000	0	0	0	35	20	23.3
381	0	0.034	0	5000	0	0	0	33.89	20	23.3
382	0	0.034	0	5000	0	0	0	31.72	20	23.3
383	0	0.034	0	5000	0	0	0	30	20	23.3
384	0	0.034	0	5000	0	0	0	28.89	20	23.3
385	0	0.034	0	5000	0	0	0	29.39	20	23.3
386	0	0.034	0	5000	0	0	0	27.22	20	23.3
387	0	0.034	0	5000	0	0	0	26.11	20	23.3
388	0	0.034	0	5000	0	0	0	25	20	23.3
389	0	0.034	0	5000	0	0	0	25	20	23.3
390	0	0.034	0	5000	0	0	0	25	20	23.3
391	0	0.034	0	5000	0	0	0	24.39	20	23.3
392	0	0.034	0	5000	0	0	0	27.78	20	23.3
393	0	0.034	0	5000	0	0	0	32.78	20	23.3
394	0	0.034	0	5000	0	0	0	33.89	20	23.3
395	0	0.034	0	5000	0	0	0	35.61	20	23.3
396	0	0.034	0	5000	0	0	0	36.11	20	23.3
397	0	0.034	0	5000	0	0	0	35.61	20	23.3
398	0	0.034	0	5000	0	0	0	37.78	20	23.3

399	0	0.034	0	5000	0	0	0	38.28	20	23.3
400	0	0.034	0	5000	0	0	0	37.22	20	23.3
401	0	0.034	0	5000	0	0	0	36.72	20	23.3
402	0	0.034	0	5000	0	0	0	36.11	20	23.3
403	0	0.034	0	5000	0	0	0	32.78	20	23.3
404	0	0.034	0	5000	0	0	0	30	20	23.3
405	0	0.034	0	5000	0	0	0	28.28	20	23.3
406	0	0.034	0	5000	0	0	0	28.28	20	23.3
407	0	0.034	0	5000	0	0	0	29.39	20	23.3
408	0	0.034	0	5000	0	0	0	28.89	20	23.3
409	0	0.034	0	5000	0	0	0	28.89	20	23.3
410	0	0.034	0	5000	0	0	0	27.78	20	23.3
411	0	0.034	0	5000	0	0	0	28.28	20	23.3
412	0	0.034	0	5000	0	0	0	26.72	20	23.3
413	0	0.034	0	5000	0	0	0	26.72	20	23.3
414	0	0.034	0	5000	0	0	0	26.11	20	23.3
415	0	0.034	0	5000	0	0	0	26.11	20	23.3
416	0	0.034	0	5000	0	0	0	28.28	20	23.3
417	0	0.034	0	5000	0	0	0	31.11	20	23.3
418	0	0.034	0	5000	0	0	0	32.78	20	23.3
419	0	0.034	0	5000	0	0	0	33.89	20	23.3
420	0	0.034	0	5000	0	0	0	35.61	20	23.3
421	0	0.034	0	5000	0	0	0	35.61	20	23.3
422	0	0.034	0	5000	0	0	0	36.72	20	23.3
423	0	0.034	0	5000	0	0	0	37.78	20	23.3
424	0	0.034	0	5000	0	0	0	37.78	20	23.3
425	0	0.034	0	5000	0	0	0	37.78	20	23.3
426	0	0.034	0	5000	0	0	0	36.72	20	23.3
427	0	0.034	0	5000	0	0	0	35	20	23.3
428	0	0.034	0	5000	0	0	0	33.89	20	23.3
429	0	0.034	0	5000	0	0	0	33.28	20	23.3
430	0	0.034	0	5000	0	0	0	32.78	20	23.3
431	0	0.034	0	5000	0	0	0	30	20	23.3
432	0	0.034	0	5000	0	0	0	31.11	20	23.3

433	0	0.034	0	5000	0	0	0	30	20	23.3
434	0	0.034	0	5000	0	0	0	28.28	20	23.3
435	0	0.034	0	5000	0	0	0	30	20	23.3
436	0	0.034	0	5000	0	0	0	27.78	20	23.3
437	0	0.034	0	5000	0	0	0	27.78	20	23.3
438	0	0.034	0	5000	0	0	0	29.39	20	23.3
439	0	0.034	0	5000	0	0	0	26.72	20	23.3
440	0	0.034	0	5000	0	0	0	29.39	20	23.3
441	0	0.034	0	5000	0	0	0	31.11	20	23.3
442	0	0.034	0	5000	0	0	0	33.89	20	23.3
443	0	0.034	0	5000	0	0	0	35	20	23.3
444	0	0.034	0	5000	0	0	0	36.11	20	23.3
445	0	0.034	0	5000	0	0	0	36.72	20	23.3
446	0	0.034	0	5000	0	0	0	37.78	20	23.3
447	0	0.034	0	5000	0	0	0	37.22	20	23.3
448	0	0.034	0	5000	0	0	0	37.22	20	23.3
449	0	0.034	0	5000	0	0	0	37.22	20	23.3
450	0	0.034	0	5000	0	0	0	36.11	20	23.3
451	0	0.034	0	5000	0	0	0	35	20	23.3
452	0	0.034	0	5000	0	0	0	33.28	20	23.3
453	0	0.034	0	5000	0	0	0	32.78	20	23.3
454	0	0.034	0	5000	0	0	0	29.39	20	23.3
455	0	0.034	0	5000	0	0	0	28.89	20	23.3
456	0	0.034	0	5000	0	0	0	27.22	20	23.3
457	0	0.034	0	5000	0	0	0	23.89	20	23.3
458	0	0.034	0	5000	0	0	0	25	20	23.3
459	0	0.034	0	5000	0	0	0	21.72	20	23.3
460	0	0.034	0	5000	0	0	0	21.11	20	23.3
461	0	0.034	0	5000	0	0	0	18.89	20	23.3
462	0	0.034	0	5000	0	0	0	19.39	20	23.3
463	0	0.034	0	5000	0	0	0	20	20	23.3
464	0	0.034	0	5000	0	0	0	23.89	20	23.3
465	0	0.034	0	5000	0	0	0	28.28	20	23.3
466	0	0.034	0	5000	0	0	0	29.39	20	23.3

467	0	0.034	0	5000	0	0	0	31.11	20	23.3
468	0	0.034	0	5000	0	0	0	32.78	20	23.3
469	0	0.034	0	5000	0	0	0	33.28	20	23.3
470	0	0.034	0	5000	0	0	0	35	20	23.3
471	0	0.034	0	5000	0	0	0	36.11	20	23.3
472	0	0.034	0	5000	0	0	0	36.72	20	23.3
473	0	0.034	0	5000	0	0	0	36.72	20	23.3
474	0	0.034	0	5000	0	0	0	36.72	20	23.3
475	0	0.034	0	5000	0	0	0	35.61	20	23.3
476	0	0.034	0	5000	0	0	0	31.72	20	23.3
477	0	0.034	0	5000	0	0	0	30.61	20	23.3
478	0	0.034	0	5000	0	0	0	26.11	20	23.3
479	0	0.034	0	5000	0	0	0	25.61	20	23.3
480	0	0.034	0	5000	0	0	0	21.11	20	23.3
481	0	0.034	0	5000	0	0	0	21.72	20	23.3
482	0	0.034	0	5000	0	0	0	20	20	23.3
483	0	0.034	0	5000	0	0	0	17.22	20	23.3
484	0	0.034	0	5000	0	0	0	17.78	20	23.3
485	0	0.034	0	5000	0	0	0	17.22	20	23.3
486	0	0.034	0	5000	0	0	0	17.22	20	23.3
487	0	0.034	0	5000	0	0	0	18.28	20	23.3
488	0	0.034	0	5000	0	0	0	22.78	20	23.3
489	0	0.034	0	5000	0	0	0	26.11	20	23.3
490	0	0.034	0	5000	0	0	0	30.61	20	23.3
491	0	0.034	0	5000	0	0	0	33.28	20	23.3
492	0	0.034	0	5000	0	0	0	34.39	20	23.3
493	0	0.034	0	5000	0	0	0	35.61	20	23.3
494	0	0.034	0	5000	0	0	0	37.78	20	23.3
495	0	0.034	0	5000	0	0	0	38.28	20	23.3
496	0	0.034	0	5000	0	0	0	38.28	20	23.3
497	0	0.034	0	5000	0	0	0	38.89	20	23.3
498	0	0.034	0	5000	0	0	0	37.78	20	23.3
499	0	0.034	0	5000	0	0	0	36.72	20	23.3
500	0	0.034	0	5000	0	0	0	34.39	20	23.3

501	0	0.034	0	5000	0	0	0	31.11	20	23.3
502	0	0.034	0	5000	0	0	0	29.39	20	23.3
503	0	0.034	0	5000	0	0	0	26.72	20	23.3
504	0	0.034	0	5000	0	0	0	25	20	23.3
505	0	0.034	0	5000	0	0	0	22.78	20	23.3
506	0	0.034	0	5000	0	0	0	22.22	20	23.3
507	0	0.034	0	5000	0	0	0	21.72	20	23.3
508	0	0.034	0	5000	0	0	0	19.39	20	23.3
509	0	0.034	0	5000	0	0	0	18.89	20	23.3
510	0	0.034	0	5000	0	0	0	18.89	20	23.3
511	0	0.034	0	5000	0	0	0	18.89	20	23.3
512	0	0.034	0	5000	0	0	0	25	20	23.3
513	0	0.034	0	5000	0	0	0	27.22	20	23.3
514	0	0.034	0	5000	0	0	0	31.11	20	23.3
515	0	0.034	0	5000	0	0	0	33.89	20	23.3
516	0	0.034	0	5000	0	0	0	35	20	23.3
517	0	0.034	0	5000	0	0	0	36.72	20	23.3
518	0	0.034	0	5000	0	0	0	38.28	20	23.3
519	0	0.034	0	5000	0	0	0	37.78	20	23.3
520	0	0.034	0	5000	0	0	0	38.28	20	23.3
521	0	0.034	0	5000	0	0	0	38.89	20	23.3
522	0	0.034	0	5000	0	0	0	37.78	20	23.3
523	0	0.034	0	5000	0	0	0	36.72	20	23.3
524	0	0.034	0	5000	0	0	0	35	20	23.3
525	0	0.034	0	5000	0	0	0	31.11	20	23.3
526	0	0.034	0	5000	0	0	0	30	20	23.3
527	0	0.034	0	5000	0	0	0	30	20	23.3
528	0	0.034	0	5000	0	0	0	25	20	23.3
529	0	0.034	0	5000	0	0	0	25	20	23.3
530	0	0.034	0	5000	0	0	0	23.89	20	23.3
531	0	0.034	0	5000	0	0	0	23.89	20	23.3
532	0	0.034	0	5000	0	0	0	20.61	20	23.3
533	0	0.034	0	5000	0	0	0	21.11	20	23.3
534	0	0.034	0	5000	0	0	0	21.72	20	23.3

535	0	0.034	0	5000	0	0	0	21.11	20	23.3
536	0	0.034	0	5000	0	0	0	26.11	20	23.3
537	0	0.034	0	5000	0	0	0	27.78	20	23.3
538	0	0.034	0	5000	0	0	0	30	20	23.3
539	0	0.034	0	5000	0	0	0	31.72	20	23.3
540	0	0.034	0	5000	0	0	0	33.28	20	23.3
541	0	0.034	0	5000	0	0	0	34.39	20	23.3
542	0	0.034	0	5000	0	0	0	36.11	20	23.3
543	0	0.034	0	5000	0	0	0	36.11	20	23.3
544	0	0.034	0	5000	0	0	0	36.72	20	23.3
545	0	0.034	0	5000	0	0	0	37.22	20	23.3
546	0	0.034	0	5000	0	0	0	37.22	20	23.3
547	0	0.034	0	5000	0	0	0	36.11	20	23.3
548	0	0.034	0	5000	0	0	0	33.89	20	23.3
549	0	0.034	0	5000	0	0	0	33.28	20	23.3
550	0	0.034	0	5000	0	0	0	30	20	23.3
551	0	0.034	0	5000	0	0	0	28.28	20	23.3
552	0	0.034	0	5000	0	0	0	24.39	20	23.3
553	0	0.034	0	5000	0	0	0	24.39	20	23.3
554	0	0.034	0	5000	0	0	0	25	20	23.3
555	0	0.034	0	5000	0	0	0	22.22	20	23.3
556	0	0.034	0	5000	0	0	0	21.72	20	23.3
557	0	0.034	0	5000	0	0	0	20	20	23.3
558	0	0.034	0	5000	0	0	0	18.89	20	23.3
559	0	0.034	0	5000	0	0	0	20	20	23.3
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561	0	0.034	0	5000	0	0	0	28.89	20	23.3
562	0	0.034	0	5000	0	0	0	31.72	20	23.3
563	0	0.034	0	5000	0	0	0	33.89	20	23.3
564	0	0.034	0	5000	0	0	0	35.61	20	23.3
565	0	0.034	0	5000	0	0	0	37.22	20	23.3
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567	0	0.034	0	5000	0	0	0	37.22	20	23.3
568	0	0.034	0	5000	0	0	0	38.28	20	23.3

569	0	0.034	0	5000	0	0	0	38.28	20	23.3
570	0	0.034	0	5000	0	0	0	37.78	20	23.3
571	0	0.034	0	5000	0	0	0	36.72	20	23.3
572	0	0.034	0	5000	0	0	0	33.28	20	23.3
573	0	0.034	0	5000	0	0	0	32.22	20	23.3
574	0	0.034	0	5000	0	0	0	30	20	23.3
575	0	0.034	0	5000	0	0	0	27.78	20	23.3
576	0	0.034	0	5000	0	0	0	27.22	20	23.3
577	0	0.034	0	5000	0	0	0	25.61	20	23.3
578	0	0.034	0	5000	0	0	0	27.22	20	23.3
579	0	0.034	0	5000	0	0	0	23.89	20	23.3
580	0	0.034	0	5000	0	0	0	21.72	20	23.3
581	0	0.034	0	5000	0	0	0	22.22	20	23.3
582	0	0.034	0	5000	0	0	0	21.11	20	23.3
583	0	0.034	0	5000	0	0	0	23.28	20	23.3
584	0	0.034	0	5000	0	0	0	26.11	20	23.3
585	0	0.034	0	5000	0	0	0	29.39	20	23.3
586	0	0.034	0	5000	0	0	0	33.89	20	23.3
587	0	0.034	0	5000	0	0	0	35	20	23.3
588	0	0.034	0	5000	0	0	0	36.11	20	23.3
589	0	0.034	0	5000	0	0	0	36.72	20	23.3
590	0	0.034	0	5000	0	0	0	37.78	20	23.3
591	0	0.034	0	5000	0	0	0	35.61	20	23.3
592	0	0.034	0	5000	0	0	0	34.39	20	23.3
593	0	0.034	0	5000	0	0	0	30	20	23.3
594	0	0.034	0	5000	0	0	0	32.22	20	23.3
595	0	0.034	0	5000	0	0	0	31.72	20	23.3
596	0	0.034	0	5000	0	0	0	30	20	23.3
597	0	0.034	0	5000	0	0	0	28.89	20	23.3
598	0	0.034	0	5000	0	0	0	28.89	20	23.3
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600	0	0.034	0	5000	0	0	0	26.11	20	23.3
601	0	0.034	0	5000	0	0	0	26.11	20	23.3
602	0	0.034	0	5000	0	0	0	23.28	20	23.3

603	0	0.034	0	5000	0	0	0	23.89	20	23.3
604	0	0.034	0	5000	0	0	0	21.72	20	23.3
605	0	0.034	0	5000	0	0	0	21.72	20	23.3
606	0	0.034	0	5000	0	0	0	21.11	20	23.3
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623	0	0.034	0	5000	0	0	0	25.61	20	23.3
624	0	0.034	0	5000	0	0	0	25	20	23.3
625	0	0.034	0	5000	0	0	0	24.39	20	23.3
626	0	0.034	0	5000	0	0	0	22.78	20	23.3
627	0	0.034	0	5000	0	0	0	23.28	20	23.3
628	0	0.034	0	5000	0	0	0	23.28	20	23.3
629	0	0.034	0	5000	0	0	0	23.89	20	23.3
630	0	0.034	0	5000	0	0	0	22.78	20	23.3
631	0	0.034	0	5000	0	0	0	21.72	20	23.3
632	0	0.034	0	5000	0	0	0	23.28	20	23.3
633	0	0.034	0	5000	0	0	0	23.89	20	23.3
634	0	0.034	0	5000	0	0	0	25.61	20	23.3
635	0	0.034	0	5000	0	0	0	27.78	20	23.3
636	0	0.034	0	5000	0	0	0	28.28	20	23.3

637	0	0.034	0	5000	0	0	0	30.61	20	23.3
638	0	0.034	0	5000	0	0	0	31.11	20	23.3
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649	0	0.034	0	5000	0	0	0	25.61	20	23.3
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652	0	0.034	0	5000	0	0	0	21.72	20	23.3
653	0	0.034	0	5000	0	0	0	21.11	20	23.3
654	0	0.034	0	5000	0	0	0	21.72	20	23.3
655	0	0.034	0	5000	0	0	0	21.72	20	23.3
656	0	0.034	0	5000	0	0	0	25	20	23.3
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663	0	0.034	0	5000	0	0	0	35	20	23.3
664	0	0.034	0	5000	0	0	0	36.11	20	23.3
665	0	0.034	0	5000	0	0	0	35.61	20	23.3
666	0	0.034	0	5000	0	0	0	35	20	23.3
667	0	0.034	0	5000	0	0	0	34.39	20	23.3
668	0	0.034	0	5000	0	0	0	33.28	20	23.3
669	0	0.034	0	5000	0	0	0	32.22	20	23.3
670	0	0.034	0	5000	0	0	0	31.11	20	23.3

671	0	0.034	0	5000	0	0	0	27.78	20	23.3
672	0	0.034	0	5000	0	0	0	28.89	20	23.3
673	0	0.034	0	5000	0	0	0	29.39	20	23.3
674	0	0.034	0	5000	0	0	0	27.78	20	23.3
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679	0	0.034	0	5000	0	0	0	22.78	20	23.3
680	0	0.034	0	5000	0	0	0	26.11	20	23.3
681	0	0.034	0	5000	0	0	0	28.89	20	23.3
682	0	0.034	0	5000	0	0	0	31.11	20	23.3
683	0	0.034	0	5000	0	0	0	33.28	20	23.3
684	0	0.034	0	5000	0	0	0	35	20	23.3
685	0	0.034	0	5000	0	0	0	36.72	20	23.3
686	0	0.034	0	5000	0	0	0	37.22	20	23.3
687	0	0.034	0	5000	0	0	0	37.22	20	23.3
688	0	0.034	0	5000	0	0	0	37.78	20	23.3
689	0	0.034	0	5000	0	0	0	37.22	20	23.3
690	0	0.034	0	5000	0	0	0	37.22	20	23.3
691	0	0.034	0	5000	0	0	0	36.11	20	23.3
692	0	0.034	0	5000	0	0	0	34.39	20	23.3
693	0	0.034	0	5000	0	0	0	33.28	20	23.3
694	0	0.034	0	5000	0	0	0	30.61	20	23.3
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696	0	0.034	0	5000	0	0	0	28.28	20	23.3
697	0	0.034	0	5000	0	0	0	26.11	20	23.3
698	0	0.034	0	5000	0	0	0	27.78	20	23.3
699	0	0.034	0	5000	0	0	0	24.39	20	23.3
700	0	0.034	0	5000	0	0	0	25.61	20	23.3
701	0	0.034	0	5000	0	0	0	24.39	20	23.3
702	0	0.034	0	5000	0	0	0	23.89	20	23.3
703	0	0.034	0	5000	0	0	0	25	20	23.3
704	0	0.034	0	5000	0	0	0	27.22	20	23.3

705	0	0.034	0	5000	0	0	0	30.61	20	23.3
706	0	0.034	0	5000	0	0	0	32.78	20	23.3
707	0	0.034	0	5000	0	0	0	33.89	20	23.3
708	0	0.034	0	5000	0	0	0	33.28	20	23.3
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710	0	0.034	0	5000	0	0	0	32.22	20	23.3
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712	0	0.034	0	5000	0	0	0	31.72	20	23.3
713	0	0.034	0	5000	0	0	0	31.72	20	23.3
714	0	0.034	0	5000	0	0	0	32.22	20	23.3
715	0	0.034	0	5000	0	0	0	31.72	20	23.3
716	0	0.034	0	5000	0	0	0	30	20	23.3
717	0	0.034	0	5000	0	0	0	28.89	20	23.3
718	0	0.034	0	5000	0	0	0	28.28	20	23.3
719	0	0.034	0	5000	0	0	0	27.78	20	23.3
720	0	0.034	0	5000	0	0	0	27.22	20	23.3

end*** END OF INPUT FILE 'ATMOSPH.IN' *****

Qp3

Pcp_File_Version=4

*** BLOCK I: ATMOSPHERIC INFORMATION *****

MaxAL (MaxAL = number of atmospheric data-records)

720

DailyVar SinusVar IDummy IDummy IDummy IDummy IDummy IDummy IDummy IDummy

f f f f f t f f f f

hCritS (max. allowed pressure head at the soil surface)

0

tAtm	Prec	rSoil	rRoot	hCritA	rB	hB	ht	tTop	tBot	Ampl	RootDepth
1	0	0.034	0	5000	0	0	26.72	20	23.3		
2	0	0.034	0	5000	0	0	26.72	20	23.3		
3	0	0.034	0	5000	0	0	26.72	20	23.3		
4	0	0.034	0	5000	0	0	25.61	20	23.3		
5	0	0.034	0	5000	0	0	24.39	20	23.3		
6	0	0.034	0	5000	0	0	23.89	20	23.3		
7	0	0.034	0	5000	0	0	23.89	20	23.3		
8	0	0.034	0	5000	0	0	23.28	20	23.3		
9	0	0.034	0	5000	0	0	25	20	23.3		
10	0	0.034	0	5000	0	0	23.89	20	23.3		
11	0	0.034	0	5000	0	0	21.72	20	23.3		
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13	0	0.034	0	5000	0	0	21.72	20	23.3		
14	0	0.034	0	5000	0	0	22.78	20	23.3		
15	0	0.034	0	5000	0	0	23.89	20	23.3		
16	0	0.034	0	5000	0	0	25.61	20	23.3		
17	0	0.034	0	5000	0	0	24.39	20	23.3		
18	0	0.034	0	5000	0	0	22.78	20	23.3		
19	0	0.034	0	5000	0	0	22.78	20	23.3		
20	0	0.034	0	5000	0	0	22.22	20	23.3		
21	0	0.034	0	5000	0	0	22.78	20	23.3		
22	0	0.034	0	5000	0	0	22.22	20	23.3		
23	0	0.034	0	5000	0	0	22.78	20	23.3		
24	0	0.034	0	5000	0	0	22.22	20	23.3		

452

25	0	0.034	0	5000	0	0	0	21.72	20	23.3
26	0	0.034	0	5000	0	0	0	22.22	20	23.3
27	0	0.034	0	5000	0	0	0	21.72	20	23.3
28	0	0.034	0	5000	0	0	0	21.72	20	23.3
29	0	0.034	0	5000	0	0	0	21.11	20	23.3
30	0	0.034	0	5000	0	0	0	21.11	20	23.3
31	0	0.034	0	5000	0	0	0	22.22	20	23.3
32	0	0.034	0	5000	0	0	0	23.89	20	23.3
33	0	0.034	0	5000	0	0	0	25	20	23.3
34	0	0.034	0	5000	0	0	0	26.11	20	23.3
35	0	0.034	0	5000	0	0	0	27.78	20	23.3
36	0	0.034	0	5000	0	0	0	29.39	20	23.3
37	0	0.034	0	5000	0	0	0	30.61	20	23.3
38	0	0.034	0	5000	0	0	0	31.11	20	23.3
39	0	0.034	0	5000	0	0	0	32.22	20	23.3
40	0	0.034	0	5000	0	0	0	31.72	20	23.3
41	0	0.034	0	5000	0	0	0	31.72	20	23.3
42	0	0.034	0	5000	0	0	0	32.22	20	23.3
43	0	0.034	0	5000	0	0	0	31.11	20	23.3
44	0	0.034	0	5000	0	0	0	23.28	20	23.3
45	0	0.034	0	5000	0	0	0	25.61	20	23.3
46	0	0.034	0	5000	0	0	0	23.89	20	23.3
47	0	0.034	0	5000	0	0	0	24.39	20	23.3
48	0	0.034	0	5000	0	0	0	23.28	20	23.3
49	0	0.034	0	5000	0	0	0	22.78	20	23.3
50	0	0.034	0	5000	0	0	0	22.78	20	23.3
51	0	0.034	0	5000	0	0	0	22.78	20	23.3
52	0	0.034	0	5000	0	0	0	21.11	20	23.3
53	0	0.034	0	5000	0	0	0	21.11	20	23.3
54	0	0.034	0	5000	0	0	0	20.61	20	23.3
55	0	0.034	0	5000	0	0	0	21.72	20	23.3
56	0	0.034	0	5000	0	0	0	24.39	20	23.3
57	0	0.034	0	5000	0	0	0	26.11	20	23.3
58	0	0.034	0	5000	0	0	0	28.89	20	23.3

59	0	0.034	0	5000	0	0	0	30.61	20	23.3
60	0	0.034	0	5000	0	0	0	32.22	20	23.3
61	0	0.034	0	5000	0	0	0	33.28	20	23.3
62	0	0.034	0	5000	0	0	0	33.89	20	23.3
63	0	0.034	0	5000	0	0	0	35.61	20	23.3
64	0	0.034	0	5000	0	0	0	36.11	20	23.3
65	0	0.034	0	5000	0	0	0	36.72	20	23.3
66	0	0.034	0	5000	0	0	0	36.11	20	23.3
67	0	0.034	0	5000	0	0	0	33.28	20	23.3
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73	0	0.034	0	5000	0	0	0	26.11	20	23.3
74	0	0.034	0	5000	0	0	0	25.61	20	23.3
75	0	0.034	0	5000	0	0	0	25	20	23.3
76	0	0.034	0	5000	0	0	0	23.28	20	23.3
77	0	0.034	0	5000	0	0	0	22.22	20	23.3
78	0	0.034	0	5000	0	0	0	20.61	20	23.3
79	0	0.034	0	5000	0	0	0	22.78	20	23.3
80	0	0.034	0	5000	0	0	0	26.72	20	23.3
81	0	0.034	0	5000	0	0	0	28.89	20	23.3
82	0	0.034	0	5000	0	0	0	32.22	20	23.3
83	0	0.034	0	5000	0	0	0	35	20	23.3
84	0	0.034	0	5000	0	0	0	35.61	20	23.3
85	0	0.034	0	5000	0	0	0	37.22	20	23.3
86	0	0.034	0	5000	0	0	0	37.22	20	23.3
87	0	0.034	0	5000	0	0	0	36.72	20	23.3
88	0	0.034	0	5000	0	0	0	37.22	20	23.3
89	0	0.034	0	5000	0	0	0	37.78	20	23.3
90	0	0.034	0	5000	0	0	0	37.22	20	23.3
91	0	0.034	0	5000	0	0	0	36.72	20	23.3
92	0	0.034	0	5000	0	0	0	35.61	20	23.3

93	0	0.034	0	5000	0	0	0	33.89	20	23.3
94	0	0.034	0	5000	0	0	0	32.22	20	23.3
95	0	0.034	0	5000	0	0	0	31.72	20	23.3
96	0	0.034	0	5000	0	0	0	31.72	20	23.3
97	0	0.034	0	5000	0	0	0	31.11	20	23.3
98	0	0.034	0	5000	0	0	0	28.89	20	23.3
99	0	0.034	0	5000	0	0	0	28.28	20	23.3
100	0	0.034	0	5000	0	0	0	27.22	20	23.3
101	0	0.034	0	5000	0	0	0	25.61	20	23.3
102	0	0.034	0	5000	0	0	0	23.89	20	23.3
103	0	0.034	0	5000	0	0	0	26.11	20	23.3
104	0	0.034	0	5000	0	0	0	28.28	20	23.3
105	0	0.034	0	5000	0	0	0	31.11	20	23.3
106	0	0.034	0	5000	0	0	0	33.89	20	23.3
107	0	0.034	0	5000	0	0	0	34.39	20	23.3
108	0	0.034	0	5000	0	0	0	35.61	20	23.3
109	0	0.034	0	5000	0	0	0	36.11	20	23.3
110	0	0.034	0	5000	0	0	0	35.61	20	23.3
111	0	0.034	0	5000	0	0	0	36.11	20	23.3
112	0	0.034	0	5000	0	0	0	36.72	20	23.3
113	0	0.034	0	5000	0	0	0	36.11	20	23.3
114	0	0.034	0	5000	0	0	0	35.61	20	23.3
115	0	0.034	0	5000	0	0	0	34.39	20	23.3
116	0	0.034	0	5000	0	0	0	32.78	20	23.3
117	0	0.034	0	5000	0	0	0	31.11	20	23.3
118	0	0.034	0	5000	0	0	0	30.61	20	23.3
119	0	0.034	0	5000	0	0	0	30	20	23.3
120	0	0.034	0	5000	0	0	0	28.89	20	23.3
121	0	0.034	0	5000	0	0	0	27.78	20	23.3
122	0	0.034	0	5000	0	0	0	25.61	20	23.3
123	0	0.034	0	5000	0	0	0	23.28	20	23.3
124	0	0.034	0	5000	0	0	0	23.89	20	23.3
125	0	0.034	0	5000	0	0	0	23.28	20	23.3
126	0	0.034	0	5000	0	0	0	22.78	20	23.3

127	0	0.034	0	5000	0	0	0	22.78	20	23.3
128	0	0.034	0	5000	0	0	0	24.39	20	23.3
129	0	0.034	0	5000	0	0	0	27.22	20	23.3
130	0	0.034	0	5000	0	0	0	29.39	20	23.3
131	0	0.034	0	5000	0	0	0	31.11	20	23.3
132	0	0.034	0	5000	0	0	0	32.22	20	23.3
133	0	0.034	0	5000	0	0	0	33.28	20	23.3
134	0	0.034	0	5000	0	0	0	33.89	20	23.3
135	0	0.034	0	5000	0	0	0	33.89	20	23.3
136	0	0.034	0	5000	0	0	0	33.89	20	23.3
137	0	0.034	0	5000	0	0	0	33.89	20	23.3
138	0	0.034	0	5000	0	0	0	33.89	20	23.3
139	0	0.034	0	5000	0	0	0	32.78	20	23.3
140	0	0.034	0	5000	0	0	0	30.61	20	23.3
141	0	0.034	0	5000	0	0	0	28.89	20	23.3
142	0	0.034	0	5000	0	0	0	25.61	20	23.3
143	0	0.034	0	5000	0	0	0	22.78	20	23.3
144	0	0.034	0	5000	0	0	0	22.78	20	23.3
145	0	0.034	0	5000	0	0	0	22.78	20	23.3
146	0	0.034	0	5000	0	0	0	21.11	20	23.3
147	0	0.034	0	5000	0	0	0	20.61	20	23.3
148	0	0.034	0	5000	0	0	0	18.28	20	23.3
149	0	0.034	0	5000	0	0	0	16.72	20	23.3
150	0	0.034	0	5000	0	0	0	16.72	20	23.3
151	0	0.034	0	5000	0	0	0	17.78	20	23.3
152	0	0.034	0	5000	0	0	0	21.72	20	23.3
153	0	0.034	0	5000	0	0	0	24.39	20	23.3
154	0	0.034	0	5000	0	0	0	26.11	20	23.3
155	0	0.034	0	5000	0	0	0	28.28	20	23.3
156	0	0.034	0	5000	0	0	0	28.89	20	23.3
157	0	0.034	0	5000	0	0	0	31.11	20	23.3
158	0	0.034	0	5000	0	0	0	32.78	20	23.3
159	0	0.034	0	5000	0	0	0	33.89	20	23.3
160	0	0.034	0	5000	0	0	0	33.89	20	23.3

161	0	0.034	0	5000	0	0	0	33.89	20	23.3
162	0	0.034	0	5000	0	0	0	33.89	20	23.3
163	0	0.034	0	5000	0	0	0	32.78	20	23.3
164	0	0.034	0	5000	0	0	0	30.61	20	23.3
165	0	0.034	0	5000	0	0	0	29.39	20	23.3
166	0	0.034	0	5000	0	0	0	26.72	20	23.3
167	0	0.034	0	5000	0	0	0	26.72	20	23.3
168	0	0.034	0	5000	0	0	0	23.28	20	23.3
169	0	0.034	0	5000	0	0	0	23.89	20	23.3
170	0	0.034	0	5000	0	0	0	19.39	20	23.3
171	0	0.034	0	5000	0	0	0	17.78	20	23.3
172	0	0.034	0	5000	0	0	0	19.39	20	23.3
173	0	0.034	0	5000	0	0	0	17.22	20	23.3
174	0	0.034	0	5000	0	0	0	15.61	20	23.3
175	0	0.034	0	5000	0	0	0	17.78	20	23.3
176	0	0.034	0	5000	0	0	0	22.22	20	23.3
177	0	0.034	0	5000	0	0	0	25	20	23.3
178	0	0.034	0	5000	0	0	0	28.28	20	23.3
179	0	0.034	0	5000	0	0	0	31.72	20	23.3
180	0	0.034	0	5000	0	0	0	32.22	20	23.3
181	0	0.034	0	5000	0	0	0	33.28	20	23.3
182	0	0.034	0	5000	0	0	0	33.89	20	23.3
183	0	0.034	0	5000	0	0	0	34.39	20	23.3
184	0	0.034	0	5000	0	0	0	35	20	23.3
185	0	0.034	0	5000	0	0	0	35.61	20	23.3
186	0	0.034	0	5000	0	0	0	35	20	23.3
187	0	0.034	0	5000	0	0	0	33.89	20	23.3
188	0	0.034	0	5000	0	0	0	31.72	20	23.3
189	0	0.034	0	5000	0	0	0	30.61	20	23.3
190	0	0.034	0	5000	0	0	0	28.89	20	23.3
191	0	0.034	0	5000	0	0	0	25.61	20	23.3
192	0	0.034	0	5000	0	0	0	27.22	20	23.3
193	0	0.034	0	5000	0	0	0	22.22	20	23.3
194	0	0.034	0	5000	0	0	0	19.39	20	23.3

195	0	0.034	0	5000	0	0	0	20.61	20	23.3
196	0	0.034	0	5000	0	0	0	20	20	23.3
197	0	0.034	0	5000	0	0	0	18.89	20	23.3
198	0	0.034	0	5000	0	0	0	16.72	20	23.3
199	0	0.034	0	5000	0	0	0	19.39	20	23.3
200	0	0.034	0	5000	0	0	0	23.89	20	23.3
201	0	0.034	0	5000	0	0	0	26.72	20	23.3
202	0	0.034	0	5000	0	0	0	29.39	20	23.3
203	0	0.034	0	5000	0	0	0	32.22	20	23.3
204	0	0.034	0	5000	0	0	0	32.78	20	23.3
205	0	0.034	0	5000	0	0	0	33.28	20	23.3
206	0	0.034	0	5000	0	0	0	35	20	23.3
207	0	0.034	0	5000	0	0	0	36.72	20	23.3
208	0	0.034	0	5000	0	0	0	36.11	20	23.3
209	0	0.034	0	5000	0	0	0	36.11	20	23.3
210	0	0.034	0	5000	0	0	0	35.61	20	23.3
211	0	0.034	0	5000	0	0	0	33.89	20	23.3
212	0	0.034	0	5000	0	0	0	32.22	20	23.3
213	0	0.034	0	5000	0	0	0	30.61	20	23.3
214	0	0.034	0	5000	0	0	0	28.28	20	23.3
215	0	0.034	0	5000	0	0	0	24.39	20	23.3
216	0	0.034	0	5000	0	0	0	26.72	20	23.3
217	0	0.034	0	5000	0	0	0	24.39	20	23.3
218	0	0.034	0	5000	0	0	0	23.89	20	23.3
219	0	0.034	0	5000	0	0	0	21.11	20	23.3
220	0	0.034	0	5000	0	0	0	21.72	20	23.3
221	0	0.034	0	5000	0	0	0	20	20	23.3
222	0	0.034	0	5000	0	0	0	17.78	20	23.3
223	0	0.034	0	5000	0	0	0	19.39	20	23.3
224	0	0.034	0	5000	0	0	0	22.78	20	23.3
225	0	0.034	0	5000	0	0	0	26.11	20	23.3
226	0	0.034	0	5000	0	0	0	29.39	20	23.3
227	0	0.034	0	5000	0	0	0	32.22	20	23.3
228	0	0.034	0	5000	0	0	0	32.78	20	23.3

229	0	0.034	0	5000	0	0	0	33.89	20	23.3
230	0	0.034	0	5000	0	0	0	35	20	23.3
231	0	0.034	0	5000	0	0	0	35.61	20	23.3
232	0	0.034	0	5000	0	0	0	36.72	20	23.3
233	0	0.034	0	5000	0	0	0	37.22	20	23.3
234	0	0.034	0	5000	0	0	0	36.11	20	23.3
235	0	0.034	0	5000	0	0	0	35	20	23.3
236	0	0.034	0	5000	0	0	0	32.78	20	23.3
237	0	0.034	0	5000	0	0	0	30.61	20	23.3
238	0	0.034	0	5000	0	0	0	30	20	23.3
239	0	0.034	0	5000	0	0	0	27.22	20	23.3
240	0	0.034	0	5000	0	0	0	25	20	23.3
241	0	0.034	0	5000	0	0	0	25	20	23.3
242	0	0.034	0	5000	0	0	0	23.89	20	23.3
243	0	0.034	0	5000	0	0	0	22.22	20	23.3
244	0	0.034	0	5000	0	0	0	20	20	23.3
245	0	0.034	0	5000	0	0	0	20	20	23.3
246	0	0.034	0	5000	0	0	0	18.28	20	23.3
247	0	0.034	0	5000	0	0	0	20.61	20	23.3
248	0	0.034	0	5000	0	0	0	23.89	20	23.3
249	0	0.034	0	5000	0	0	0	27.22	20	23.3
250	0	0.034	0	5000	0	0	0	32.78	20	23.3
251	0	0.034	0	5000	0	0	0	33.28	20	23.3
252	0	0.034	0	5000	0	0	0	35.61	20	23.3
253	0	0.034	0	5000	0	0	0	35.61	20	23.3
254	0	0.034	0	5000	0	0	0	36.11	20	23.3
255	0	0.034	0	5000	0	0	0	36.72	20	23.3
256	0	0.034	0	5000	0	0	0	37.78	20	23.3
257	0	0.034	0	5000	0	0	0	37.78	20	23.3
258	0	0.034	0	5000	0	0	0	36.72	20	23.3
259	0	0.034	0	5000	0	0	0	35.61	20	23.3
260	0	0.034	0	5000	0	0	0	33.89	20	23.3
261	0	0.034	0	5000	0	0	0	32.78	20	23.3
262	0	0.034	0	5000	0	0	0	30	20	23.3

263	0	0.034	0	5000	0	0	0	29.39	20	23.3
264	0	0.034	0	5000	0	0	0	28.28	20	23.3
265	0	0.034	0	5000	0	0	0	27.78	20	23.3
266	0	0.034	0	5000	0	0	0	26.72	20	23.3
267	0	0.034	0	5000	0	0	0	24.39	20	23.3
268	0	0.034	0	5000	0	0	0	23.89	20	23.3
269	0	0.034	0	5000	0	0	0	22.22	20	23.3
270	0	0.034	0	5000	0	0	0	22.78	20	23.3
271	0	0.034	0	5000	0	0	0	24.39	20	23.3
272	0	0.034	0	5000	0	0	0	27.22	20	23.3
273	0	0.034	0	5000	0	0	0	30	20	23.3
274	0	0.034	0	5000	0	0	0	32.78	20	23.3
275	0	0.034	0	5000	0	0	0	33.89	20	23.3
276	0	0.034	0	5000	0	0	0	34.39	20	23.3
277	0	0.034	0	5000	0	0	0	35.61	20	23.3
278	0	0.034	0	5000	0	0	0	36.72	20	23.3
279	0	0.034	0	5000	0	0	0	37.22	20	23.3
280	0	0.034	0	5000	0	0	0	37.78	20	23.3
281	0	0.034	0	5000	0	0	0	37.78	20	23.3
282	0	0.034	0	5000	0	0	0	37.78	20	23.3
283	0	0.034	0	5000	0	0	0	36.72	20	23.3
284	0	0.034	0	5000	0	0	0	35	20	23.3
285	0	0.034	0	5000	0	0	0	33.89	20	23.3
286	0	0.034	0	5000	0	0	0	32.78	20	23.3
287	0	0.034	0	5000	0	0	0	31.11	20	23.3
288	0	0.034	0	5000	0	0	0	31.72	20	23.3
289	0	0.034	0	5000	0	0	0	27.78	20	23.3
290	0	0.034	0	5000	0	0	0	25	20	23.3
291	0	0.034	0	5000	0	0	0	25.61	20	23.3
292	0	0.034	0	5000	0	0	0	25.61	20	23.3
293	0	0.034	0	5000	0	0	0	23.89	20	23.3
294	0	0.034	0	5000	0	0	0	23.89	20	23.3
295	0	0.034	0	5000	0	0	0	23.89	20	23.3
296	0	0.034	0	5000	0	0	0	27.22	20	23.3

297	0	0.034	0	5000	0	0	0	30.61	20	23.3
298	0	0.034	0	5000	0	0	0	33.28	20	23.3
299	0	0.034	0	5000	0	0	0	35	20	23.3
300	0	0.034	0	5000	0	0	0	37.22	20	23.3
301	0	0.034	0	5000	0	0	0	38.28	20	23.3
302	0	0.034	0	5000	0	0	0	38.28	20	23.3
303	0	0.034	0	5000	0	0	0	38.28	20	23.3
304	0	0.034	0	5000	0	0	0	38.89	20	23.3
305	0	0.034	0	5000	0	0	0	38.89	20	23.3
306	0	0.034	0	5000	0	0	0	38.28	20	23.3
307	0	0.034	0	5000	0	0	0	37.22	20	23.3
308	0	0.034	0	5000	0	0	0	35	20	23.3
309	0	0.034	0	5000	0	0	0	34.39	20	23.3
310	0	0.034	0	5000	0	0	0	30.61	20	23.3
311	0	0.034	0	5000	0	0	0	30.61	20	23.3
312	0	0.034	0	5000	0	0	0	28.89	20	23.3
313	0	0.034	0	5000	0	0	0	26.72	20	23.3
314	0	0.034	0	5000	0	0	0	24.39	20	23.3
315	0	0.034	0	5000	0	0	0	25.61	20	23.3
316	0	0.034	0	5000	0	0	0	23.28	20	23.3
317	0	0.034	0	5000	0	0	0	21.72	20	23.3
318	0	0.034	0	5000	0	0	0	22.22	20	23.3
319	0	0.034	0	5000	0	0	0	23.28	20	23.3
320	0	0.034	0	5000	0	0	0	25.61	20	23.3
321	0	0.034	0	5000	0	0	0	32.22	20	23.3
322	0	0.034	0	5000	0	0	0	33.89	20	23.3
323	0	0.034	0	5000	0	0	0	36.11	20	23.3
324	0	0.034	0	5000	0	0	0	36.11	20	23.3
325	0	0.034	0	5000	0	0	0	36.72	20	23.3
326	0	0.034	0	5000	0	0	0	37.22	20	23.3
327	0	0.034	0	5000	0	0	0	37.78	20	23.3
328	0	0.034	0	5000	0	0	0	36.72	20	23.3
329	0	0.034	0	5000	0	0	0	37.22	20	23.3
330	0	0.034	0	5000	0	0	0	36.72	20	23.3

331	0	0.034	0	5000	0	0	0	35.61	20	23.3
332	0	0.034	0	5000	0	0	0	33.89	20	23.3
333	0	0.034	0	5000	0	0	0	32.22	20	23.3
334	0	0.034	0	5000	0	0	0	30.61	20	23.3
335	0	0.034	0	5000	0	0	0	28.89	20	23.3
336	0	0.034	0	5000	0	0	0	26.72	20	23.3
337	0	0.034	0	5000	0	0	0	25.61	20	23.3
338	0	0.034	0	5000	0	0	0	25	20	23.3
339	0	0.034	0	5000	0	0	0	24.39	20	23.3
340	0	0.034	0	5000	0	0	0	23.28	20	23.3
341	0	0.034	0	5000	0	0	0	23.28	20	23.3
342	0	0.034	0	5000	0	0	0	22.78	20	23.3
343	0	0.034	0	5000	0	0	0	22.22	20	23.3
344	0	0.034	0	5000	0	0	0	26.72	20	23.3
345	0	0.034	0	5000	0	0	0	28.89	20	23.3
346	0	0.034	0	5000	0	0	0	32.78	20	23.3
347	0	0.034	0	5000	0	0	0	34.39	20	23.3
348	0	0.034	0	5000	0	0	0	36.72	20	23.3
349	0	0.034	0	5000	0	0	0	36.72	20	23.3
350	0	0.034	0	5000	0	0	0	37.78	20	23.3
351	0	0.034	0	5000	0	0	0	36.72	20	23.3
352	0	0.034	0	5000	0	0	0	37.78	20	23.3
353	0	0.034	0	5000	0	0	0	37.78	20	23.3
354	0	0.034	0	5000	0	0	0	37.78	20	23.3
355	0	0.034	0	5000	0	0	0	36.72	20	23.3
356	0	0.034	0	5000	0	0	0	35	20	23.3
357	0	0.034	0	5000	0	0	0	33.28	20	23.3
358	0	0.034	0	5000	0	0	0	31.11	20	23.3
359	0	0.034	0	5000	0	0	0	30.61	20	23.3
360	0	0.034	0	5000	0	0	0	27.78	20	23.3
361	0	0.034	0	5000	0	0	0	27.78	20	23.3
362	0	0.034	0	5000	0	0	0	25.61	20	23.3
363	0	0.034	0	5000	0	0	0	23.28	20	23.3
364	0	0.034	0	5000	0	0	0	23.89	20	23.3

365	0	0.034	0	5000	0	0	0	24.39	20	23.3
366	0	0.034	0	5000	0	0	0	23.89	20	23.3
367	0	0.034	0	5000	0	0	0	23.89	20	23.3
368	0	0.034	0	5000	0	0	0	27.78	20	23.3
369	0	0.034	0	5000	0	0	0	31.11	20	23.3
370	0	0.034	0	5000	0	0	0	32.78	20	23.3
371	0	0.034	0	5000	0	0	0	36.11	20	23.3
372	0	0.034	0	5000	0	0	0	37.22	20	23.3
373	0	0.034	0	5000	0	0	0	36.11	20	23.3
374	0	0.034	0	5000	0	0	0	38.28	20	23.3
375	0	0.034	0	5000	0	0	0	37.78	20	23.3
376	0	0.034	0	5000	0	0	0	38.89	20	23.3
377	0	0.034	0	5000	0	0	0	38.28	20	23.3
378	0	0.034	0	5000	0	0	0	36.11	20	23.3
379	0	0.034	0	5000	0	0	0	36.72	20	23.3
380	0	0.034	0	5000	0	0	0	35	20	23.3
381	0	0.034	0	5000	0	0	0	33.89	20	23.3
382	0	0.034	0	5000	0	0	0	31.72	20	23.3
383	0	0.034	0	5000	0	0	0	30	20	23.3
384	0	0.034	0	5000	0	0	0	28.89	20	23.3
385	0	0.034	0	5000	0	0	0	29.39	20	23.3
386	0	0.034	0	5000	0	0	0	27.22	20	23.3
387	0	0.034	0	5000	0	0	0	26.11	20	23.3
388	0	0.034	0	5000	0	0	0	25	20	23.3
389	0	0.034	0	5000	0	0	0	25	20	23.3
390	0	0.034	0	5000	0	0	0	25	20	23.3
391	0	0.034	0	5000	0	0	0	24.39	20	23.3
392	0	0.034	0	5000	0	0	0	27.78	20	23.3
393	0	0.034	0	5000	0	0	0	32.78	20	23.3
394	0	0.034	0	5000	0	0	0	33.89	20	23.3
395	0	0.034	0	5000	0	0	0	35.61	20	23.3
396	0	0.034	0	5000	0	0	0	36.11	20	23.3
397	0	0.034	0	5000	0	0	0	35.61	20	23.3
398	0	0.034	0	5000	0	0	0	37.78	20	23.3

399	0	0.034	0	5000	0	0	0	38.28	20	23.3
400	0	0.034	0	5000	0	0	0	37.22	20	23.3
401	0	0.034	0	5000	0	0	0	36.72	20	23.3
402	0	0.034	0	5000	0	0	0	36.11	20	23.3
403	0	0.034	0	5000	0	0	0	32.78	20	23.3
404	0	0.034	0	5000	0	0	0	30	20	23.3
405	0	0.034	0	5000	0	0	0	28.28	20	23.3
406	0	0.034	0	5000	0	0	0	28.28	20	23.3
407	0	0.034	0	5000	0	0	0	29.39	20	23.3
408	0	0.034	0	5000	0	0	0	28.89	20	23.3
409	0	0.034	0	5000	0	0	0	28.89	20	23.3
410	0	0.034	0	5000	0	0	0	27.78	20	23.3
411	0	0.034	0	5000	0	0	0	28.28	20	23.3
412	0	0.034	0	5000	0	0	0	26.72	20	23.3
413	0	0.034	0	5000	0	0	0	26.72	20	23.3
414	0	0.034	0	5000	0	0	0	26.11	20	23.3
415	0	0.034	0	5000	0	0	0	26.11	20	23.3
416	0	0.034	0	5000	0	0	0	28.28	20	23.3
417	0	0.034	0	5000	0	0	0	31.11	20	23.3
418	0	0.034	0	5000	0	0	0	32.78	20	23.3
419	0	0.034	0	5000	0	0	0	33.89	20	23.3
420	0	0.034	0	5000	0	0	0	35.61	20	23.3
421	0	0.034	0	5000	0	0	0	35.61	20	23.3
422	0	0.034	0	5000	0	0	0	36.72	20	23.3
423	0	0.034	0	5000	0	0	0	37.78	20	23.3
424	0	0.034	0	5000	0	0	0	37.78	20	23.3
425	0	0.034	0	5000	0	0	0	37.78	20	23.3
426	0	0.034	0	5000	0	0	0	36.72	20	23.3
427	0	0.034	0	5000	0	0	0	35	20	23.3
428	0	0.034	0	5000	0	0	0	33.89	20	23.3
429	0	0.034	0	5000	0	0	0	33.28	20	23.3
430	0	0.034	0	5000	0	0	0	32.78	20	23.3
431	0	0.034	0	5000	0	0	0	30	20	23.3
432	0	0.034	0	5000	0	0	0	31.11	20	23.3

433	0	0.034	0	5000	0	0	0	30	20	23.3
434	0	0.034	0	5000	0	0	0	28.28	20	23.3
435	0	0.034	0	5000	0	0	0	30	20	23.3
436	0	0.034	0	5000	0	0	0	27.78	20	23.3
437	0	0.034	0	5000	0	0	0	27.78	20	23.3
438	0	0.034	0	5000	0	0	0	29.39	20	23.3
439	0	0.034	0	5000	0	0	0	26.72	20	23.3
440	0	0.034	0	5000	0	0	0	29.39	20	23.3
441	0	0.034	0	5000	0	0	0	31.11	20	23.3
442	0	0.034	0	5000	0	0	0	33.89	20	23.3
443	0	0.034	0	5000	0	0	0	35	20	23.3
444	0	0.034	0	5000	0	0	0	36.11	20	23.3
445	0	0.034	0	5000	0	0	0	36.72	20	23.3
446	0	0.034	0	5000	0	0	0	37.78	20	23.3
447	0	0.034	0	5000	0	0	0	37.22	20	23.3
448	0	0.034	0	5000	0	0	0	37.22	20	23.3
449	0	0.034	0	5000	0	0	0	37.22	20	23.3
450	0	0.034	0	5000	0	0	0	36.11	20	23.3
451	0	0.034	0	5000	0	0	0	35	20	23.3
452	0	0.034	0	5000	0	0	0	33.28	20	23.3
453	0	0.034	0	5000	0	0	0	32.78	20	23.3
454	0	0.034	0	5000	0	0	0	29.39	20	23.3
455	0	0.034	0	5000	0	0	0	28.89	20	23.3
456	0	0.034	0	5000	0	0	0	27.22	20	23.3
457	0	0.034	0	5000	0	0	0	23.89	20	23.3
458	0	0.034	0	5000	0	0	0	25	20	23.3
459	0	0.034	0	5000	0	0	0	21.72	20	23.3
460	0	0.034	0	5000	0	0	0	21.11	20	23.3
461	0	0.034	0	5000	0	0	0	18.89	20	23.3
462	0	0.034	0	5000	0	0	0	19.39	20	23.3
463	0	0.034	0	5000	0	0	0	20	20	23.3
464	0	0.034	0	5000	0	0	0	23.89	20	23.3
465	0	0.034	0	5000	0	0	0	28.28	20	23.3
466	0	0.034	0	5000	0	0	0	29.39	20	23.3

467	0	0.034	0	5000	0	0	0	31.11	20	23.3
468	0	0.034	0	5000	0	0	0	32.78	20	23.3
469	0	0.034	0	5000	0	0	0	33.28	20	23.3
470	0	0.034	0	5000	0	0	0	35	20	23.3
471	0	0.034	0	5000	0	0	0	36.11	20	23.3
472	0	0.034	0	5000	0	0	0	36.72	20	23.3
473	0	0.034	0	5000	0	0	0	36.72	20	23.3
474	0	0.034	0	5000	0	0	0	36.72	20	23.3
475	0	0.034	0	5000	0	0	0	35.61	20	23.3
476	0	0.034	0	5000	0	0	0	31.72	20	23.3
477	0	0.034	0	5000	0	0	0	30.61	20	23.3
478	0	0.034	0	5000	0	0	0	26.11	20	23.3
479	0	0.034	0	5000	0	0	0	25.61	20	23.3
480	0	0.034	0	5000	0	0	0	21.11	20	23.3
481	0	0.034	0	5000	0	0	0	21.72	20	23.3
482	0	0.034	0	5000	0	0	0	20	20	23.3
483	0	0.034	0	5000	0	0	0	17.22	20	23.3
484	0	0.034	0	5000	0	0	0	17.78	20	23.3
485	0	0.034	0	5000	0	0	0	17.22	20	23.3
486	0	0.034	0	5000	0	0	0	17.22	20	23.3
487	0	0.034	0	5000	0	0	0	18.28	20	23.3
488	0	0.034	0	5000	0	0	0	22.78	20	23.3
489	0	0.034	0	5000	0	0	0	26.11	20	23.3
490	0	0.034	0	5000	0	0	0	30.61	20	23.3
491	0	0.034	0	5000	0	0	0	33.28	20	23.3
492	0	0.034	0	5000	0	0	0	34.39	20	23.3
493	0	0.034	0	5000	0	0	0	35.61	20	23.3
494	0	0.034	0	5000	0	0	0	37.78	20	23.3
495	0	0.034	0	5000	0	0	0	38.28	20	23.3
496	0	0.034	0	5000	0	0	0	38.28	20	23.3
497	0	0.034	0	5000	0	0	0	38.89	20	23.3
498	0	0.034	0	5000	0	0	0	37.78	20	23.3
499	0	0.034	0	5000	0	0	0	36.72	20	23.3
500	0	0.034	0	5000	0	0	0	34.39	20	23.3

501	0	0.034	0	5000	0	0	0	31.11	20	23.3
502	0	0.034	0	5000	0	0	0	29.39	20	23.3
503	0	0.034	0	5000	0	0	0	26.72	20	23.3
504	0	0.034	0	5000	0	0	0	25	20	23.3
505	0	0.034	0	5000	0	0	0	22.78	20	23.3
506	0	0.034	0	5000	0	0	0	22.22	20	23.3
507	0	0.034	0	5000	0	0	0	21.72	20	23.3
508	0	0.034	0	5000	0	0	0	19.39	20	23.3
509	0	0.034	0	5000	0	0	0	18.89	20	23.3
510	0	0.034	0	5000	0	0	0	18.89	20	23.3
511	0	0.034	0	5000	0	0	0	18.89	20	23.3
512	0	0.034	0	5000	0	0	0	25	20	23.3
513	0	0.034	0	5000	0	0	0	27.22	20	23.3
514	0	0.034	0	5000	0	0	0	31.11	20	23.3
515	0	0.034	0	5000	0	0	0	33.89	20	23.3
516	0	0.034	0	5000	0	0	0	35	20	23.3
517	0	0.034	0	5000	0	0	0	36.72	20	23.3
518	0	0.034	0	5000	0	0	0	38.28	20	23.3
519	0	0.034	0	5000	0	0	0	37.78	20	23.3
520	0	0.034	0	5000	0	0	0	38.28	20	23.3
521	0	0.034	0	5000	0	0	0	38.89	20	23.3
522	0	0.034	0	5000	0	0	0	37.78	20	23.3
523	0	0.034	0	5000	0	0	0	36.72	20	23.3
524	0	0.034	0	5000	0	0	0	35	20	23.3
525	0	0.034	0	5000	0	0	0	31.11	20	23.3
526	0	0.034	0	5000	0	0	0	30	20	23.3
527	0	0.034	0	5000	0	0	0	30	20	23.3
528	0	0.034	0	5000	0	0	0	25	20	23.3
529	0	0.034	0	5000	0	0	0	25	20	23.3
530	0	0.034	0	5000	0	0	0	23.89	20	23.3
531	0	0.034	0	5000	0	0	0	23.89	20	23.3
532	0	0.034	0	5000	0	0	0	20.61	20	23.3
533	0	0.034	0	5000	0	0	0	21.11	20	23.3
534	0	0.034	0	5000	0	0	0	21.72	20	23.3

535	0	0.034	0	5000	0	0	0	21.11	20	23.3
536	0	0.034	0	5000	0	0	0	26.11	20	23.3
537	0	0.034	0	5000	0	0	0	27.78	20	23.3
538	0	0.034	0	5000	0	0	0	30	20	23.3
539	0	0.034	0	5000	0	0	0	31.72	20	23.3
540	0	0.034	0	5000	0	0	0	33.28	20	23.3
541	0	0.034	0	5000	0	0	0	34.39	20	23.3
542	0	0.034	0	5000	0	0	0	36.11	20	23.3
543	0	0.034	0	5000	0	0	0	36.11	20	23.3
544	0	0.034	0	5000	0	0	0	36.72	20	23.3
545	0	0.034	0	5000	0	0	0	37.22	20	23.3
546	0	0.034	0	5000	0	0	0	37.22	20	23.3
547	0	0.034	0	5000	0	0	0	36.11	20	23.3
548	0	0.034	0	5000	0	0	0	33.89	20	23.3
549	0	0.034	0	5000	0	0	0	33.28	20	23.3
550	0	0.034	0	5000	0	0	0	30	20	23.3
551	0	0.034	0	5000	0	0	0	28.28	20	23.3
552	0	0.034	0	5000	0	0	0	24.39	20	23.3
553	0	0.034	0	5000	0	0	0	24.39	20	23.3
554	0	0.034	0	5000	0	0	0	25	20	23.3
555	0	0.034	0	5000	0	0	0	22.22	20	23.3
556	0	0.034	0	5000	0	0	0	21.72	20	23.3
557	0	0.034	0	5000	0	0	0	20	20	23.3
558	0	0.034	0	5000	0	0	0	18.89	20	23.3
559	0	0.034	0	5000	0	0	0	20	20	23.3
560	0	0.034	0	5000	0	0	0	25	20	23.3
561	0	0.034	0	5000	0	0	0	28.89	20	23.3
562	0	0.034	0	5000	0	0	0	31.72	20	23.3
563	0	0.034	0	5000	0	0	0	33.89	20	23.3
564	0	0.034	0	5000	0	0	0	35.61	20	23.3
565	0	0.034	0	5000	0	0	0	37.22	20	23.3
566	0	0.034	0	5000	0	0	0	37.22	20	23.3
567	0	0.034	0	5000	0	0	0	37.22	20	23.3
568	0	0.034	0	5000	0	0	0	38.28	20	23.3

569	0	0.034	0	5000	0	0	0	38.28	20	23.3
570	0	0.034	0	5000	0	0	0	37.78	20	23.3
571	0	0.034	0	5000	0	0	0	36.72	20	23.3
572	0	0.034	0	5000	0	0	0	33.28	20	23.3
573	0	0.034	0	5000	0	0	0	32.22	20	23.3
574	0	0.034	0	5000	0	0	0	30	20	23.3
575	0	0.034	0	5000	0	0	0	27.78	20	23.3
576	0	0.034	0	5000	0	0	0	27.22	20	23.3
577	0	0.034	0	5000	0	0	0	25.61	20	23.3
578	0	0.034	0	5000	0	0	0	27.22	20	23.3
579	0	0.034	0	5000	0	0	0	23.89	20	23.3
580	0	0.034	0	5000	0	0	0	21.72	20	23.3
581	0	0.034	0	5000	0	0	0	22.22	20	23.3
582	0	0.034	0	5000	0	0	0	21.11	20	23.3
583	0	0.034	0	5000	0	0	0	23.28	20	23.3
584	0	0.034	0	5000	0	0	0	26.11	20	23.3
585	0	0.034	0	5000	0	0	0	29.39	20	23.3
586	0	0.034	0	5000	0	0	0	33.89	20	23.3
587	0	0.034	0	5000	0	0	0	35	20	23.3
588	0	0.034	0	5000	0	0	0	36.11	20	23.3
589	0	0.034	0	5000	0	0	0	36.72	20	23.3
590	0	0.034	0	5000	0	0	0	37.78	20	23.3
591	0	0.034	0	5000	0	0	0	35.61	20	23.3
592	0	0.034	0	5000	0	0	0	34.39	20	23.3
593	0	0.034	0	5000	0	0	0	30	20	23.3
594	0	0.034	0	5000	0	0	0	32.22	20	23.3
595	0	0.034	0	5000	0	0	0	31.72	20	23.3
596	0	0.034	0	5000	0	0	0	30	20	23.3
597	0	0.034	0	5000	0	0	0	28.89	20	23.3
598	0	0.034	0	5000	0	0	0	28.89	20	23.3
599	0	0.034	0	5000	0	0	0	25.61	20	23.3
600	0	0.034	0	5000	0	0	0	26.11	20	23.3
601	0	0.034	0	5000	0	0	0	26.11	20	23.3
602	0	0.034	0	5000	0	0	0	23.28	20	23.3

603	0	0.034	0	5000	0	0	0	23.89	20	23.3
604	0	0.034	0	5000	0	0	0	21.72	20	23.3
605	0	0.034	0	5000	0	0	0	21.72	20	23.3
606	0	0.034	0	5000	0	0	0	21.11	20	23.3
607	0	0.034	0	5000	0	0	0	22.22	20	23.3
608	0	0.034	0	5000	0	0	0	23.89	20	23.3
609	0	0.034	0	5000	0	0	0	28.28	20	23.3
610	0	0.034	0	5000	0	0	0	30.61	20	23.3
611	0	0.034	0	5000	0	0	0	31.11	20	23.3
612	0	0.034	0	5000	0	0	0	32.78	20	23.3
613	0	0.034	0	5000	0	0	0	32.78	20	23.3
614	0	0.034	0	5000	0	0	0	31.11	20	23.3
615	0	0.034	0	5000	0	0	0	31.11	20	23.3
616	0	0.034	0	5000	0	0	0	28.89	20	23.3
617	0	0.034	0	5000	0	0	0	29.39	20	23.3
618	0	0.034	0	5000	0	0	0	28.89	20	23.3
619	0	0.034	0	5000	0	0	0	28.89	20	23.3
620	0	0.034	0	5000	0	0	0	27.78	20	23.3
621	0	0.034	0	5000	0	0	0	25.61	20	23.3
622	0	0.034	0	5000	0	0	0	25.61	20	23.3
623	0	0.034	0	5000	0	0	0	25.61	20	23.3
624	0	0.034	0	5000	0	0	0	25	20	23.3
625	0	0.034	0	5000	0	0	0	24.39	20	23.3
626	0	0.034	0	5000	0	0	0	22.78	20	23.3
627	0	0.034	0	5000	0	0	0	23.28	20	23.3
628	0	0.034	0	5000	0	0	0	23.28	20	23.3
629	0	0.034	0	5000	0	0	0	23.89	20	23.3
630	0	0.034	0	5000	0	0	0	22.78	20	23.3
631	0	0.034	0	5000	0	0	0	21.72	20	23.3
632	0	0.034	0	5000	0	0	0	23.28	20	23.3
633	0	0.034	0	5000	0	0	0	23.89	20	23.3
634	0	0.034	0	5000	0	0	0	25.61	20	23.3
635	0	0.034	0	5000	0	0	0	27.78	20	23.3
636	0	0.034	0	5000	0	0	0	28.28	20	23.3

637	0	0.034	0	5000	0	0	0	30.61	20	23.3
638	0	0.034	0	5000	0	0	0	31.11	20	23.3
639	0	0.034	0	5000	0	0	0	31.72	20	23.3
640	0	0.034	0	5000	0	0	0	32.22	20	23.3
641	0	0.034	0	5000	0	0	0	31.72	20	23.3
642	0	0.034	0	5000	0	0	0	31.72	20	23.3
643	0	0.034	0	5000	0	0	0	31.11	20	23.3
644	0	0.034	0	5000	0	0	0	29.39	20	23.3
645	0	0.034	0	5000	0	0	0	28.28	20	23.3
646	0	0.034	0	5000	0	0	0	27.22	20	23.3
647	0	0.034	0	5000	0	0	0	26.72	20	23.3
648	0	0.034	0	5000	0	0	0	26.11	20	23.3
649	0	0.034	0	5000	0	0	0	25.61	20	23.3
650	0	0.034	0	5000	0	0	0	22.22	20	23.3
651	0	0.034	0	5000	0	0	0	23.28	20	23.3
652	0	0.034	0	5000	0	0	0	21.72	20	23.3
653	0	0.034	0	5000	0	0	0	21.11	20	23.3
654	0	0.034	0	5000	0	0	0	21.72	20	23.3
655	0	0.034	0	5000	0	0	0	21.72	20	23.3
656	0	0.034	0	5000	0	0	0	25	20	23.3
657	0	0.034	0	5000	0	0	0	27.22	20	23.3
658	0	0.034	0	5000	0	0	0	29.39	20	23.3
659	0	0.034	0	5000	0	0	0	31.11	20	23.3
660	0	0.034	0	5000	0	0	0	32.22	20	23.3
661	0	0.034	0	5000	0	0	0	32.78	20	23.3
662	0	0.034	0	5000	0	0	0	33.89	20	23.3
663	0	0.034	0	5000	0	0	0	35	20	23.3
664	0	0.034	0	5000	0	0	0	36.11	20	23.3
665	0	0.034	0	5000	0	0	0	35.61	20	23.3
666	0	0.034	0	5000	0	0	0	35	20	23.3
667	0	0.034	0	5000	0	0	0	34.39	20	23.3
668	0	0.034	0	5000	0	0	0	33.28	20	23.3
669	0	0.034	0	5000	0	0	0	32.22	20	23.3
670	0	0.034	0	5000	0	0	0	31.11	20	23.3

671	0	0.034	0	5000	0	0	0	27.78	20	23.3
672	0	0.034	0	5000	0	0	0	28.89	20	23.3
673	0	0.034	0	5000	0	0	0	29.39	20	23.3
674	0	0.034	0	5000	0	0	0	27.78	20	23.3
675	0	0.034	0	5000	0	0	0	24.39	20	23.3
676	0	0.034	0	5000	0	0	0	23.89	20	23.3
677	0	0.034	0	5000	0	0	0	22.78	20	23.3
678	0	0.034	0	5000	0	0	0	21.72	20	23.3
679	0	0.034	0	5000	0	0	0	22.78	20	23.3
680	0	0.034	0	5000	0	0	0	26.11	20	23.3
681	0	0.034	0	5000	0	0	0	28.89	20	23.3
682	0	0.034	0	5000	0	0	0	31.11	20	23.3
683	0	0.034	0	5000	0	0	0	33.28	20	23.3
684	0	0.034	0	5000	0	0	0	35	20	23.3
685	0	0.034	0	5000	0	0	0	36.72	20	23.3
686	0	0.034	0	5000	0	0	0	37.22	20	23.3
687	0	0.034	0	5000	0	0	0	37.22	20	23.3
688	0	0.034	0	5000	0	0	0	37.78	20	23.3
689	0	0.034	0	5000	0	0	0	37.22	20	23.3
690	0	0.034	0	5000	0	0	0	37.22	20	23.3
691	0	0.034	0	5000	0	0	0	36.11	20	23.3
692	0	0.034	0	5000	0	0	0	34.39	20	23.3
693	0	0.034	0	5000	0	0	0	33.28	20	23.3
694	0	0.034	0	5000	0	0	0	30.61	20	23.3
695	0	0.034	0	5000	0	0	0	31.11	20	23.3
696	0	0.034	0	5000	0	0	0	28.28	20	23.3
697	0	0.034	0	5000	0	0	0	26.11	20	23.3
698	0	0.034	0	5000	0	0	0	27.78	20	23.3
699	0	0.034	0	5000	0	0	0	24.39	20	23.3
700	0	0.034	0	5000	0	0	0	25.61	20	23.3
701	0	0.034	0	5000	0	0	0	24.39	20	23.3
702	0	0.034	0	5000	0	0	0	23.89	20	23.3
703	0	0.034	0	5000	0	0	0	25	20	23.3
704	0	0.034	0	5000	0	0	0	27.22	20	23.3

705	0	0.034	0	5000	0	0	0	30.61	20	23.3
706	0	0.034	0	5000	0	0	0	32.78	20	23.3
707	0	0.034	0	5000	0	0	0	33.89	20	23.3
708	0	0.034	0	5000	0	0	0	33.28	20	23.3
709	0	0.034	0	5000	0	0	0	33.89	20	23.3
710	0	0.034	0	5000	0	0	0	32.22	20	23.3
711	0	0.034	0	5000	0	0	0	32.22	20	23.3
712	0	0.034	0	5000	0	0	0	31.72	20	23.3
713	0	0.034	0	5000	0	0	0	31.72	20	23.3
714	0	0.034	0	5000	0	0	0	32.22	20	23.3
715	0	0.034	0	5000	0	0	0	31.72	20	23.3
716	0	0.034	0	5000	0	0	0	30	20	23.3
717	0	0.034	0	5000	0	0	0	28.89	20	23.3
718	0	0.034	0	5000	0	0	0	28.28	20	23.3
719	0	0.034	0	5000	0	0	0	27.78	20	23.3
720	0	0.034	0	5000	0	0	0	27.22	20	23.3

end*** END OF INPUT FILE 'ATMOSPH.IN' *****

Qf2

Pcp_File_Version=4

* METEOROLOGICAL PARAMETERS AND INFORMATION |||||

MeteoRecords Radiation Penman-Hargreaves

1 1 f

lEnBal lDaily lDummy lDummy lDummy lDummy lDummy lDummy lDummy lDummy

f f f f f t f f f f

Latitude Altitude

36 115

ShortWaveRadA ShortWaveRadB

0.25 0.5

LongWaveRadA LongWaveRadB

0.9 0.1

LongWaveRadA1 LongWaveRadB1

0.34 -0.139

WindHeight TempHeight

200 200

iCrop (=0: no crop, =1: constant, =2: table, =3: daily) SunShine RelativeHum

0 0 0

Albedo

0.23

Daily values

t Rad TMax TMin RHMean Wind SunHours CropHeight Albedo LAI(SCF) rRoot

[T] [MJ/m2/d] [C] [C] [%] [km/d] [hour] [L] [-] [-] [L]

720 300 50 20 95 30 4

end *** END OF INPUT FILE 'METEO.IN' *****

4/4

Qf3

Pcp_File_Version=4

* METEOROLOGICAL PARAMETERS AND INFORMATION |||||

MeteoRecords Radiation Penman-Hargreaves

1 1 f

lEnBal lDaily lDummy lDummy lDummy lDummy lDummy lDummy lDummy lDummy

f f f f f t f f f f

Latitude Altitude

36 115

ShortWaveRadA ShortWaveRadB

0.25 0.5

LongWaveRadA LongWaveRadB

0.9 0.1

LongWaveRadA1 LongWaveRadB1

0.34 -0.139

WindHeight TempHeight

200 200

iCrop (=0: no crop, =1: constant, =2: table, =3: daily) SunShine RelativeHum

0 0 0

Albedo

0.23

Daily values

t Rad TMax TMin RHMean Wind SunHours CropHeight Albedo LAI(SCF) rRoot

[T] [MJ/m2/d] [C] [C] [%] [km/d] [hour] [L] [-] [-] [L]

720 300 50 20 95 30 4

end *** END OF INPUT FILE 'METEO.IN' *****

475

Qf4

Pcp_File_Version=4

* METEOROLOGICAL PARAMETERS AND INFORMATION |||||

MeteoRecords Radiation Penman-Hargreaves

1 1 f

lEnBal lDaily lDummy lDummy lDummy lDummy lDummy lDummy lDummy lDummy

f f f f f t f f f f

Latitude Altitude

36 115

ShortWaveRadA ShortWaveRadB

0.25 0.5

LongWaveRadA LongWaveRadB

0.9 0.1

LongWaveRadA1 LongWaveRadB1

0.34 -0.139

WindHeight TempHeight

200 200

iCrop (=0: no crop, =1: constant, =2: table, =3: daily) SunShine RelativeHum

0 0 0

Albedo

0.23

Daily values

t Rad TMax TMin RHMean Wind SunHours CropHeight Albedo LAI(SCF) rRoot

[T] [MJ/m2/d] [C] [C] [%] [km/d] [hour] [L] [-] [-] [L]

720 300 50 20 95 30 4

end *** END OF INPUT FILE 'METEO.IN' *****

476

Qf5

Pcp_File_Version=4

* METEOROLOGICAL PARAMETERS AND INFORMATION |||||

MeteoRecords Radiation Penman-Hargreaves

1 1 f

lEnBal lDaily lDummy lDummy lDummy lDummy lDummy lDummy lDummy lDummy

f f f f f t f f f f

Latitude Altitude

36 115

ShortWaveRadA ShortWaveRadB

0.25 0.5

LongWaveRadA LongWaveRadB

0.9 0.1

LongWaveRadA1 LongWaveRadB1

0.34 -0.139

WindHeight TempHeight

200 200

iCrop (=0: no crop, =1: constant, =2: table, =3: daily) SunShine RelativeHum

0 0 0

Albedo

0.23

Daily values

t Rad TMax TMin RHMean Wind SunHours CropHeight Albedo LAI(SCF) rRoot

[T] [MJ/m2/d] [C] [C] [%] [km/d] [hour] [L] [-] [-] [L]

720 300 50 20 95 30 4

end *** END OF INPUT FILE 'METEO.IN' *****

477

```

Qp1
Pcp_File_Version=4
* METEOROLOGICAL PARAMETERS AND INFORMATION |||
MeteoRecords Radiation Penman-Hargreaves
    1    1    f
lEnBal lDaily lDummy lDummy lDummy lDummy lDummy lDummy lDummy lDummy
    f    f    f    f    t    f    f    f    f
Latitude Altitude
    36    115
ShortWaveRadA ShortWaveRadB
    0.25    0.5
LongWaveRadA LongWaveRadB
    0.9    0.1
LongWaveRadA1 LongWaveRadB1
    0.34    -0.139
WindHeight TempHeight
    200    200
iCrop (=0: no crop, =1: constant, =2: table, =3: daily) SunShine RelativeHum
    0                                0    0
Albedo
    0.23
Daily values
    t    Rad    TMax    TMin    RHMean    Wind    SunHours CropHeight    Albedo    LAI(SCF)    rRoot
    [T] [MJ/m2/d] [C]    [C]    [%]    [km/d] [hour] [L]    [-]    [-]    [L]
    720    300    50    20    95    30    4
end *** END OF INPUT FILE 'METEO.IN' *****

```

478

Qp2

Pcp_File_Version=4

* METEOROLOGICAL PARAMETERS AND INFORMATION |||||

MeteoRecords Radiation Penman-Hargreaves

1 1 f

lEnBal lDaily lDummy lDummy lDummy lDummy lDummy lDummy lDummy lDummy

f f f f f t f f f f

Latitude Altitude

36 115

ShortWaveRadA ShortWaveRadB

0.25 0.5

LongWaveRadA LongWaveRadB

0.9 0.1

LongWaveRadA1 LongWaveRadB1

0.34 -0.139

WindHeight TempHeight

200 200

iCrop (=0: no crop, =1: constant, =2: table, =3: daily) SunShine RelativeHum

0 0 0

Albedo

0.23

Daily values

t Rad TMax TMin RHMean Wind SunHours CropHeight Albedo LAI(SCF) rRoot

[T] [MJ/m2/d] [C] [C] [%] [km/d] [hour] [L] [-] [-] [L]

720 300 50 20 95 30 4

end *** END OF INPUT FILE 'METEO.IN' *****

479

Qp3

Pcp_File_Version=4

* METEOROLOGICAL PARAMETERS AND INFORMATION |||||

MeteoRecords Radiation Penman-Hargreaves

1 1 f

lEnBal lDaily lDummy lDummy lDummy lDummy lDummy lDummy lDummy lDummy

f f f f f t f f f f

Latitude Altitude

36 115

ShortWaveRadA ShortWaveRadB

0.25 0.5

LongWaveRadA LongWaveRadB

0.9 0.1

LongWaveRadA1 LongWaveRadB1

0.34 -0.139

WindHeight TempHeight

200 200

iCrop (=0: no crop, =1: constant, =2: table, =3: daily) SunShine RelativeHum

0 0 0

Albedo

0.23

Daily values

t Rad TMax TMin RHMean Wind SunHours CropHeight Albedo LAI(SCF) rRoot

[T] [MJ/m2/d] [C] [C] [%] [km/d] [hour] [L] [-] [-] [L]

720 300 50 20 95 30 4

end *** END OF INPUT FILE 'METEO.IN' *****

480

Qf2
Pcp_File_Version=4
*** BLOCK A: BASIC INFORMATION *****

Heading
Welcome to HYDRUS-1D
LUnit TUnit MUnit (indicated units are obligatory for all input data)
cm
hours
mmol
IWat lChem lTemp lSink lRoot lShort lWDep lScreen lVariabBC lEquil lInverse
t f t f f f t t t t f
lSnow lHP1 lMeteo lVapor lDummy lFluxes lDummy lDummy lDummy lDummy
f f f f f f f f f f
NMat NLayer CosAlpha
1 1 1

*** BLOCK B: WATER FLOW INFORMATION *****

MaxIt TolTh TolH (maximum number of iterations and tolerances)
10 0.001 1
TopInf WLayer KodTop InitCond
t t -1 f
BotInf qGWL FreeD SeepF KodBot DrainF hSeep
f f t f -1 f 0
hTab1 hTabN
1e-006 10000
Model Hysteresis
0 0
thr ths Alfa n Ks l
0.04 0.39 0.03 1.51 1.76 -0.8

*** BLOCK C: TIME INFORMATION *****

dt dtMin dtMax DMul DMul2 ItMin ItMax MPL
0.0001 0.0001 0.1 1.3 0.7 3 7 10
tInit tMax
0 720
lPrintD nPrintSteps tPrintInterval lEnter

481

```

t      1      24      t
TPrint(1),TPrint(2),...,TPrint(MPL)
  72    144    216    288    360    432
 504    576    648    720
*** BLOCK E: HEAT TRANSPORT INFORMATION *****
Qn  Qo  Disper.  B1    B2    B3    Cn    Co    Cw
0.62  0   5 1.13374e+012 1.83358e+012 7.15703e+012 2.48832e+011 3.25296e+011 5.41728e+011
tAmpl  tPeriod  Campbell  MeltConst  IDummy  IDummy  IDummy  IDummy  IDummy
23.3   24      0  0.43    f    f    f    f    f
kTopT  TTop    kBotT    TBot
  1     30     1     20
*** END OF INPUT FILE 'SELECTOR.IN' *****

```

Qf3
Pcp_File_Version=4
*** BLOCK A: BASIC INFORMATION *****

Heading
Welcome to HYDRUS-1D
LUnit TUnit MUnit (indicated units are obligatory for all input data)
cm
hours
mmol
IWat lChem lTemp lSink lRoot lShort lWDep lScreen lVariabBC lEquil lInverse
t f t f f f t t t t f
lSnow lHP1 lMeteo lVapor lDummy lFluxes lDummy lDummy lDummy
f f f f f f f f f f
NMat NLayer CosAlpha
1 1 1

*** BLOCK B: WATER FLOW INFORMATION *****

MaxIt TolTh TolH (maximum number of iterations and tolerances)
10 0.001 1
TopInf WLayer KodTop InitCond
t t -1 f
BotInf qGWL FreeD SeepF KodBot DrainF hSeep
f f t f -1 f 0
hTab1 hTabN
1e-006 10000
Model Hysteresis
0 0
thr ths Alfa n Ks l
0.044 0.389 0.026 1.504 1.36 -0.835

*** BLOCK C: TIME INFORMATION *****

dt dtMin dtMax DMul DMul2 ItMin ItMax MPL
0.0001 0.0001 0.1 1.3 0.7 3 7 10
tInit tMax
0 720

lPrintD nPrintSteps tPrintInterval lEnter

483

```

t      1      24      t
TPrint(1),TPrint(2),...,TPrint(MPL)
  72    144    216    288    360    432
 504    576    648    720
*** BLOCK E: HEAT TRANSPORT INFORMATION *****
Qn  Qo  Disper.  B1    B2    B3    Cn    Co    Cw
0.62  0   5 1.13374e+012 1.83358e+012 7.15703e+012 2.48832e+011 3.25296e+011 5.41728e+011
tAmpl  tPeriod  Campbell  MeltConst  IDummy  IDummy  IDummy  IDummy  IDummy
23.3   24      0  0.43    f    f    f    f    f
kTopT  TTop    kBotT    TBot
  1     30     1     20
*** END OF INPUT FILE 'SELECTOR.IN' *****

```


Qf4
Pcp_File_Version=4
*** BLOCK A: BASIC INFORMATION *****

Heading
Welcome to HYDRUS-1D
LUnit TUnit MUnit (indicated units are obligatory for all input data)
cm
hours
mmol
IWat lChem lTemp lSink lRoot lShort lWDep lScreen lVariabBC lEquil lInverse
t f t f f f t t t t f
lSnow lHP1 lMeteo lVapor lDummy lFluxes lDummy lDummy lDummy lDummy
f f f f f f f f f f
NMat NLayer CosAlpha
1 1 1

*** BLOCK B: WATER FLOW INFORMATION *****

MaxIt TolTh TolH (maximum number of iterations and tolerances)
10 0.001 1
TopInf WLayer KodTop InitCond
t t -1 f
BotInf qGWL FreeD SeepF KodBot DrainF hSeep
f f t f -1 f 0
hTab1 hTabN
1e-006 10000
Model Hysteresis
0 0
thr ths Alfa n Ks l
0.032 0.286 0.03 1.45 0.98 -1.113

*** BLOCK C: TIME INFORMATION *****

dt dtMin dtMax DMul DMul2 ItMin ItMax MPL
0.0001 0.0001 0.1 1.3 0.7 3 7 10
tInit tMax
0 720
lPrintD nPrintSteps tPrintInterval lEnter

485

```

t      1      24      t
TPrint(1),TPrint(2),...,TPrint(MPL)
  72    144    216    288    360    432
 504    576    648    720
*** BLOCK E: HEAT TRANSPORT INFORMATION *****
Qn  Qo  Disper.  B1    B2    B3    Cn    Co    Cw
0.62  0   5 1.13374e+012 1.83358e+012 7.15703e+012 2.48832e+011 3.25296e+011 5.41728e+011
tAmpl  tPeriod  Campbell  MeltConst  IDummy  IDummy  IDummy  IDummy  IDummy
23.3   24      0  0.43    f    f    f    f    f
kTopT  TTop    kBotT    TBot
  1     30     1     20
*** END OF INPUT FILE 'SELECTOR.IN' *****

```

Qf5
Pcp_File_Version=4
*** BLOCK A: BASIC INFORMATION *****

Heading
Welcome to HYDRUS-1D
LUnit TUnit MUnit (indicated units are obligatory for all input data)
cm
hours
mmol
IWat lChem lTemp lSink lRoot lShort lWDep lScreen lVariabBC lEquil lInverse
t f t f f f t t t t f
lSnow lHP1 lMeteo lVapor lDummy lFluxes lDummy lDummy lDummy
f f f f f f f f f f
NMat NLayer CosAlpha
1 1 1

*** BLOCK B: WATER FLOW INFORMATION *****

MaxIt TolTh TolH (maximum number of iterations and tolerances)
10 0.001 1
TopInf WLayer KodTop InitCond
t t -1 f
BotInf qGWL FreeD SeepF KodBot DrainF hSeep
f f t f -1 f 0
hTab1 hTabN
1e-006 10000
Model Hysteresis
0 0
thr ths Alfa n Ks l
0.038 0.345 0.042 1.584 1.262 -1.358

*** BLOCK C: TIME INFORMATION *****

dt dtMin dtMax DMul DMul2 ItMin ItMax MPL
0.0001 0.0001 0.1 1.3 0.7 3 7 10
tInit tMax
0 720
lPrintD nPrintSteps tPrintInterval lEnter

487

```

t      1      24      t
TPrint(1),TPrint(2),...,TPrint(MPL)
  72    144    216    288    360    432
 504    576    648    720
*** BLOCK E: HEAT TRANSPORT INFORMATION *****
Qn  Qo  Disper.  B1    B2    B3    Cn    Co    Cw
0.62  0   5 1.13374e+012 1.83358e+012 7.15703e+012 2.48832e+011 3.25296e+011 5.41728e+011
tAmpl  tPeriod  Campbell  MeltConst  IDummy  IDummy  IDummy  IDummy  IDummy
23.3   24      0  0.43    f    f    f    f    f
kTopT  TTop    kBotT    TBot
  1     30     1     20
*** END OF INPUT FILE 'SELECTOR.IN' *****

```

Qp1
Pcp_File_Version=4
*** BLOCK A: BASIC INFORMATION *****

Heading
Welcome to HYDRUS-1D
LUnit TUnit MUnit (indicated units are obligatory for all input data)
cm
hours
mmol
IWat lChem lTemp lSink lRoot lShort lWDep lScreen lVariabBC lEquil lInverse
t f t f f f t t t t f
lSnow lHP1 lMeteo lVapor lDummy lFluxes lDummy lDummy lDummy lDummy
f f f f f f f f f f
NMat NLayer CosAlpha
1 1 1

*** BLOCK B: WATER FLOW INFORMATION *****

MaxIt TolTh TolH (maximum number of iterations and tolerances)
10 0.001 1
TopInf WLayer KodTop InitCond
t t -1 f
BotInf qGWL FreeD SeepF KodBot DrainF hSeep
f f t f -1 f 0
hTab1 hTabN
1e-006 10000
Model Hysteresis
0 0
thr ths Alfa n Ks l
0.043 0.381 0.042 1.549 2.108 -1.069

*** BLOCK C: TIME INFORMATION *****

dt dtMin dtMax DMul DMul2 ItMin ItMax MPL
0.0001 0.0001 0.1 1.3 0.7 3 7 10
tInit tMax
0 720
lPrintD nPrintSteps tPrintInterval lEnter

489

```

t      1      24      t
TPrint(1),TPrint(2),...,TPrint(MPL)
  72    144    216    288    360    432
 504    576    648    720
*** BLOCK E: HEAT TRANSPORT INFORMATION *****
Qn  Qo  Disper.  B1    B2    B3    Cn    Co    Cw
0.62  0   5 1.13374e+012 1.83358e+012 7.15703e+012 2.48832e+011 3.25296e+011 5.41728e+011
tAmpl  tPeriod  Campbell  MeltConst  IDummy  IDummy  IDummy  IDummy  IDummy
23.3   24      0  0.43    f    f    f    f    f
kTopT  TTop    kBotT    TBot
  1     30     1     20
*** END OF INPUT FILE 'SELECTOR.IN' *****

```

Qp2

Pcp_File_Version=4

*** BLOCK A: BASIC INFORMATION ****

Heading

Welcome to HYDRUS-1D

LUnit TUnit MUnit (indicated units are obligatory for all input data)

cm

hours

mmol

IWat IChem ITemp ISink IRoot IShort IWDep IScreen IVariabBC IEquil IInverse

t f t f f f t t t t f

ISnow IHP1 IMeteo IVapor IDummy IFluxes IDummy IDummy IDummy

f f f f f f f f f f

NMat NLay CosAlpha

1 1 1

*** BLOCK B: WATER FLOW INFORMATION ****

MaxIt TolTh TolH (maximum number of iterations and tolerances)

10 0.001 1

TopInf WLayer KodTop InitCond

t t -1 f

BotInf qGWL FreeD SeepF KodBot DrainF hSeep

f f t f -1 f 0

hTab1 hTabN

1e-006 10000

Model Hysteresis

0 0

thr ths Alfa n Ks l

0.042 0.34 0.042 1.573 1.452 -1.39

*** BLOCK C: TIME INFORMATION ****

dt dtMin dtMax DMul DMul2 ItMin ItMax MPL

0.0001 0.0001 0.1 1.3 0.7 3 7 10

tInit tMax

0 720

lPrintD nPrintSteps tPrintInterval lEnter

491

```

t      1      24      t
TPrint(1),TPrint(2),...,TPrint(MPL)
  72    144    216    288    360    432
 504    576    648    720
*** BLOCK E: HEAT TRANSPORT INFORMATION *****
Qn  Qo  Disper.  B1    B2    B3    Cn    Co    Cw
0.62  0   5 1.13374e+012 1.83358e+012 7.15703e+012 2.48832e+011 3.25296e+011 5.41728e+011
tAmpl tPeriod  Campbell MeltConst IDummy IDummy IDummy IDummy IDummy
23.3  24    0  0.43  f  f  f  f  f
kTopT  TTop  kBotT  TBot
  1    30    1    20
*** END OF INPUT FILE 'SELECTOR.IN' *****

```


Qp3

Pcp_File_Version=4

*** BLOCK A: BASIC INFORMATION ****

Heading

Welcome to HYDRUS-1D

LUnit TUnit MUnit (indicated units are obligatory for all input data)

cm

hours

mmol

IWat IChem ITemp ISink IRoot IShort IWDep IScreen IVariabBC IEquil IInverse

t f t f f f t t t t f

ISnow IHP1 IMeteo IVapor IDummy IFluxes IDummy IDummy IDummy

f f f f f f f f f f

NMat NLay CosAlpha

1 1 1

*** BLOCK B: WATER FLOW INFORMATION ****

MaxIt TolTh TolH (maximum number of iterations and tolerances)

10 0.001 1

TopInf WLayer KodTop InitCond

t t -1 f

BotInf qGWL FreeD SeepF KodBot DrainF hSeep

f f t f -1 f 0

hTab1 hTabN

1e-006 10000

Model Hysteresis

0 0

thr ths Alfa n Ks l

0.041 0.377 0.031 1.597 1.7 -0.868

*** BLOCK C: TIME INFORMATION ****

dt dtMin dtMax DMul DMul2 ItMin ItMax MPL

0.0001 0.0001 0.1 1.3 0.7 3 7 10

tInit tMax

0 720

IPrintD nPrintSteps tPrintInterval IEnter

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```

t      1      24      t
TPrint(1),TPrint(2),...,TPrint(MPL)
  72    144    216    288    360    432
 504    576    648    720
*** BLOCK E: HEAT TRANSPORT INFORMATION *****
Qn  Qo  Disper.  B1    B2    B3    Cn    Co    Cw
0.62  0   5 1.13374e+012 1.83358e+012 7.15703e+012 2.48832e+011 3.25296e+011 5.41728e+011
tAmpl  tPeriod  Campbell  MeltConst  IDummy  IDummy  IDummy  IDummy  IDummy
23.3   24      0  0.43    f    f    f    f    f
kTopT  TTop    kBotT    TBot
  1     30     1     20
*** END OF INPUT FILE 'SELECTOR.IN' *****

```

Qf2

Fitted van Genuchten curve:

θ_v [cm ³ /cm ³]	ψ [cm]	$\Delta\psi$ [cm]	Θ [-]	$\alpha\psi$	A	B	C	D	E	$k(\psi)/k_{sr}$	ψ_f	ψ_f	ψ_f	
					$k(\psi)$	$k(\psi)$	$k(\psi)$	k_{sr}	$k(\psi)/k_{sr}$	Ave. Step	Step	Sum [cm]	Sum [in]	
0.3900	0.1	0	1.000	0.00260	0.9514	0.99997	0.9051	1	0.905	0.8072	0	0	0	
0.3895	1	0.9	0.999	0.02600	0.8434	0.99888	0.7097	1.0006	0.7093	0.6544	0.5889	0.5889	0.2319	
0.3887	2	1	0.996	0.05200	0.7773	0.99683	0.6004	1.0016	0.5994	0.5597	0.5597	1.1486	0.4522	
0.3875	3	1	0.993	0.07800	0.7264	0.99420	0.5215	1.0029	0.52	0.4618	0.4618	1.6105	0.634	
0.3848	5	2	0.985	0.13000	0.6453	0.98766	0.4062	1.0062	0.4037	0.3612	0.7225	2.3329	0.9185	
0.3815	7	2	0.975	0.18200	0.5792	0.97988	0.3221	1.0102	0.3188	0.2722	0.5444	2.8774	1.1328	
0.3759	10	3	0.959	0.26000	0.4956	0.96663	0.2295	1.0171	0.2256	0.1751	0.5252	3.4026	1.3396	
0.3656	15	5	0.930	0.39000	0.3802	0.94213	0.1283	1.0303	0.1245	0.0944	0.4719	3.8744	1.5254	
0.3549	20	5	0.899	0.52000	0.2827	0.91641	0.0671	1.0446	0.0642	0.0466	0.2329	4.1073	1.6171	
0.3442	25	5	0.868	0.65000	0.1965	0.89074	0.0307	1.0596	0.0289	0.0194	0.0968	4.2042	1.6552	
0.3380	28	3	0.850	0.72800	0.1489	0.87567	0.017	1.0686	0.0159	0.0092	0.0275	4.2317	1.666	
0.3339	30	5	0.838	0.78000	0.1186	0.86581	0.0105	1.0747	0.0098	0.0056	0.0281	4.2598	1.6771	
0.3261	34	4	0.816	0.88400	0.0607	0.84666	0.0026	1.0868	0.0024	0.0013	0.0054	4.2651	1.6792	
0.3242	35	1	0.810	0.91000	0.0468	0.84200	0.0016	1.0898	0.0014	0.001	0.001	4.2662	1.6796	
0.3150	40	5	0.784	1.04000	-0.02	0.81944	0.0003	1.1047	0.0002	0.0021	0.0104	4.2766	1.6837	
0.3132	41	1	0.779	1.06600	-0.033	0.81509	0.0007	1.1076	0.0007	0.0058	0.0058	4.2823	1.686	
0.3064	45	4	0.759	1.17000	-0.083	0.79821	0.0044	1.1193	0.0039	0.0119	0.0478	4.3301	1.7048	
0.2983	50	5	0.736	1.30000	-0.143	0.77826	0.0123	1.1335	0.0109	0.0185	0.0925	4.4226	1.7412	
0.2938	53	3	0.723	1.37800	-0.177	0.76689	0.0184	1.1419	0.0161	0.0233	0.0699	4.4925	1.7687	
0.2909	55	2	0.714	1.43000	-0.199	0.75955	0.0229	1.1474	0.02	0.0309	0.0618	4.5543	1.793	
1-day	0.2866	58	3	0.702	1.50800	-0.232	0.74889	0.0302	1.1556	0.0261	0.0399	0.1198	4.6741	1.8402
	0.2839	60	2	0.694	1.56000	-0.253	0.74201	0.0354	1.1609	0.0305	0.0481	0.0963	4.7703	1.8781
	0.2774	65	5	0.675	1.69000	-0.305	0.72555	0.0491	1.174	0.0418	0.0538	0.2692	5.0395	1.9841
	0.2713	70	5	0.658	1.82000	-0.356	0.71009	0.0637	1.1867	0.0537	0.0658	0.3292	5.3688	2.1137

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0.2656	75	5	0.641	1.95000	-0.404	0.69555	0.0789	1.199	0.0658	0.0779	0.3897	5.7585	2.2671	
0.2634	77	2	0.635	2.00200	-0.423	0.68998	0.0851	1.2039	0.0707	0.0863	0.1727	5.9311	2.3351	
0.2602	80	3	0.626	2.08000	-0.451	0.68186	0.0944	1.211	0.078	0.0958	0.2875	6.2186	2.4483	
0.2552	85	5	0.611	2.21000	-0.496	0.66895	0.1101	1.2227	0.0901	0.1076	0.5379	6.7565	2.66	
0.2505	90	5	0.598	2.34000	-0.54	0.65675	0.1258	1.234	0.102	0.1158	0.5789	7.3354	2.8879	
0.2460	95	5	0.585	2.47000	-0.583	0.64521	0.1415	1.2449	0.1137	0.1227	0.6137	7.949	3.1295	
0.2418	100	5	0.573	2.60000	-0.625	0.63427	0.1571	1.2556	0.1251	0.1306	0.6532	8.6023	3.3867	
0.2402	102	2	0.568	2.65200	-0.641	0.63006	0.1632	1.2598	0.1296	0.1383	0.2766	8.8789	3.4956	
0.2394	103	1	0.566	2.67800	-0.649	0.62798	0.1663	1.2619	0.1318	0.1447	0.1447	9.0235	3.5526	
0.2386	104	1	0.564	2.70400	-0.658	0.62593	0.1694	1.264	0.134	0.1509	0.1509	9.1744	3.612	
0.2378	105	1	0.561	2.73000	-0.666	0.62390	0.1724	1.266	0.1362	0.1559	0.1559	9.3303	3.6734	
0.2341	110	5	0.551	2.86000	-0.705	0.61403	0.1876	1.2762	0.147	0.1623	0.8115	10.142	3.9928	
0.2305	115	5	0.540	2.99000	-0.744	0.60465	0.2026	1.286	0.1575	0.1723	0.8616	11.003	4.3321	
0.2271	120	5	0.531	3.12000	-0.783	0.59570	0.2173	1.2956	0.1677	0.182	0.9102	11.914	4.6904	
0.2245	124	4	0.523	3.22400	-0.812	0.58884	0.2289	1.3032	0.1756	0.1905	0.7619	12.676	4.9904	
0.2239	125	1	0.521	3.25000	-0.82	0.58717	0.2317	1.305	0.1776	0.1932	0.1932	12.869	5.0665	
0.2208	130	5	0.512	3.38000	-0.856	0.57901	0.2459	1.3142	0.1871	0.1989	0.9943	13.863	5.4579	
0.2179	135	5	0.504	3.51000	-0.892	0.57121	0.2598	1.3231	0.1964	0.2052	1.026	14.889	5.8619	
0.2151	140	5	0.496	3.64000	-0.928	0.56373	0.2735	1.3319	0.2053	0.2139	1.0695	15.959	6.2829	
0.2140	142	2	0.493	3.69200	-0.942	0.56083	0.2789	1.3353	0.2089	0.2197	0.4394	16.398	6.4559	
0.2135	143	1	0.491	3.71800	-0.949	0.55939	0.2816	1.337	0.2106	0.2245	0.2245	16.623	6.5443	
0.2124	145	2	0.488	3.77000	-0.962	0.55656	0.2869	1.3404	0.214	0.2301	0.4601	17.083	6.7255	
0.2099	150	5	0.481	3.90000	-0.996	0.54968	0.3	1.3488	0.2224	0.238	1.1899	18.273	7.194	
0.2074	155	5	0.474	4.03000	-1.03	0.54307	0.3129	1.357	0.2306	0.2456	1.2282	19.501	7.6775	
0.2051	160	5	0.467	4.16000	-1.063	0.53671	0.3255	1.365	0.2385	0.2531	1.2654	20.766	8.1757	
5-day	0.2028	165	5	0.461	4.29000	-1.096	0.53059	0.3379	1.3728	0.2461	0.2603	1.3014	22.068	8.688

alpha	0.026
n	1.508
m = 1-1/n	0.275
θ_r	0.043
θ_{sat}	0.390
K_{sat}	
[cm/d]	41.656
fitted m	0.275
l	
parameter	-0.797

K_{sat}	
[in/hr]	0.683
K_{sat}	
[cm/hr]	1.736

Qf3

Fitted van Genuchten curve:

θ_v [cm ³ /cm ³]	ψ [cm]	$\Delta\psi$ [cm]	Θ [-]	$\alpha\psi$	A	B	C	D	E	$k(\psi)/k_{sr}$	ψ_f	ψ_f	ψ_f	
					$k(\psi)$	$k(\psi)$	$k(\psi)$	k_{sr}	$k(\psi)/k_{sr}$	Ave. Step	Step	Sum [cm]	Sum [in]	
0.3890	0.1	0	1.000	0.00260	0.9502	0.99997	0.9028	1	0.9028	0.8043	0	0	0	
0.3885	1	0.9	0.999	0.02600	0.8411	0.99910	0.7062	1.0005	0.7058	0.6511	0.5859	0.5859	0.2307	
0.3877	2	1	0.996	0.05200	0.7746	0.99745	0.597	1.0013	0.5963	0.5569	0.5569	1.1428	0.4499	
0.3865	3	1	0.993	0.07800	0.7236	0.99534	0.5187	1.0023	0.5175	0.46	0.46	1.6028	0.631	
0.3838	5	2	0.985	0.13000	0.6424	0.99011	0.4045	1.005	0.4025	0.3607	0.7214	2.3242	0.915	
0.3805	7	2	0.975	0.18200	0.5763	0.98388	0.3215	1.0082	0.3189	0.2729	0.5459	2.8701	1.1299	
0.3750	10	3	0.959	0.26000	0.4928	0.97327	0.2301	1.0136	0.227	0.2038	0.6114	3.4815	1.3707	
0.3710	12	2	0.948	0.31200	0.444	0.96561	0.1838	1.0176	0.1806	0.1537	0.3074	3.7889	1.4917	
0.3648	15	3	0.930	0.39000	0.3778	0.95359	0.1298	1.024	0.1268	0.1068	0.3205	4.1094	1.6179	
0.3584	18	3	0.911	0.46800	0.318	0.94120	0.0896	1.0308	0.0869	0.0766	0.2297	4.3391	1.7083	
0.3542	20	2	0.899	0.52000	0.2808	0.93286	0.0686	1.0354	0.0663	0.0543	0.1086	4.4478	1.7511	
0.3478	23	3	0.881	0.59800	0.2283	0.92035	0.0441	1.0424	0.0423	0.0363	0.1089	4.5567	1.794	
0.3436	25	2	0.868	0.65000	0.1952	0.91206	0.0317	1.0471	0.0303	0.0203	0.0407	4.5973	1.81	
0.3335	30	5	0.839	0.78000	0.1177	0.89177	0.011	1.0589	0.0104	0.006	0.0298	4.6272	1.8217	
0.3315	31	1	0.833	0.80600	0.103	0.88780	0.0084	1.0613	0.0079	0.004	0.004	4.6311	1.8233	
0.3238	35	4	0.811	0.91000	0.0464	0.87227	0.0016	1.0707	0.0015	0.0009	0.0036	4.6347	1.8247	
0.3183	38	3	0.795	0.98800	0.0061	0.86101	3E-05	1.0777	3E-05	0.0022	0.0065	4.6413	1.8273	
0.3148	40	2	0.785	1.04000	-0.02	0.85370	0.0003	1.0823	0.0003	0.0062	0.0124	4.6537	1.8322	
0.3063	45	5	0.760	1.17000	-0.082	0.83613	0.0047	1.0936	0.0043	0.0092	0.046	4.6997	1.8503	
0.2983	50	5	0.737	1.30000	-0.141	0.81954	0.0134	1.1046	0.0122	0.0174	0.0869	4.7866	1.8845	
1-day	0.2968	51	1	0.733	1.32600	-0.153	0.81634	0.0156	1.1068	0.0141	0.0245	0.0245	4.8111	1.8941
	0.2909	55	4	0.716	1.43000	-0.198	0.80390	0.0252	1.1153	0.0226	0.1422	4.9533	1.9501	
	0.2840	60	5	0.696	1.56000	-0.251	0.78916	0.0393	1.1257	0.0349	0.2447	5.1979	2.0464	
	0.2776	65	5	0.677	1.69000	-0.303	0.77527	0.0551	1.1357	0.0485	0.3161	5.514	2.1709	

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0.2716	70	5	0.660	1.82000	-0.352	0.76216	0.0721	1.1455	0.0629	0.072	0.3598	5.8739	2.3126	
0.2659	75	5	0.643	1.95000	-0.4	0.74977	0.09	1.1549	0.0779	0.0856	0.4281	6.302	2.4811	
0.2648	76	1	0.640	1.97600	-0.41	0.74738	0.0937	1.1567	0.081	0.0933	0.0933	6.3953	2.5178	
0.2606	80	4	0.628	2.08000	-0.446	0.73807	0.1086	1.164	0.0933	0.101	0.4041	6.7994	2.6769	
0.2566	84	4	0.616	2.18400	-0.482	0.72915	0.1238	1.1711	0.1057	0.115	0.46	7.2594	2.858	
0.2557	85	1	0.614	2.21000	-0.491	0.72698	0.1276	1.1728	0.1088	0.1243	0.1243	7.3837	2.907	
0.2510	90	5	0.600	2.34000	-0.535	0.71646	0.1469	1.1814	0.1243	0.1398	0.6988	8.0825	3.1821	
0.2466	95	5	0.587	2.47000	-0.577	0.70648	0.1664	1.1897	0.1398	0.1551	0.7756	8.8581	3.4875	
0.2424	100	5	0.575	2.60000	-0.619	0.69698	0.1859	1.1978	0.1552	0.1703	0.8516	9.7098	3.8228	
0.2385	105	5	0.564	2.73000	-0.659	0.68794	0.2055	1.2057	0.1704	0.1853	0.9267	10.636	4.1876	
0.2348	110	5	0.553	2.86000	-0.698	0.67931	0.225	1.2133	0.1855	0.2001	1.0007	11.637	4.5816	
0.2313	115	5	0.543	2.99000	-0.737	0.67108	0.2445	1.2207	0.2003	0.2133	1.0663	12.703	5.0014	
0.2279	120	5	0.533	3.12000	-0.774	0.66321	0.2638	1.2279	0.2148	0.222	1.1098	13.813	5.4383	
0.2253	124	4	0.526	3.22400	-0.804	0.65715	0.2791	1.2336	0.2263	0.2305	0.9221	14.735	5.8014	
0.2247	125	1	0.524	3.25000	-0.811	0.65567	0.283	1.235	0.2291	0.2361	0.2361	14.972	5.8943	
0.2235	127	2	0.520	3.30200	-0.826	0.65274	0.2906	1.2377	0.2348	0.2459	0.4917	15.463	6.0879	
0.2217	130	5	0.515	3.38000	-0.847	0.64845	0.302	1.2418	0.2432	0.2568	1.2842	16.748	6.5935	
0.2188	135	5	0.507	3.51000	-0.883	0.64152	0.3208	1.2485	0.257	0.2704	1.3518	18.099	7.1257	
0.2160	140	5	0.499	3.64000	-0.918	0.63486	0.3395	1.255	0.2705	0.2836	1.4182	19.518	7.6841	
5-day	0.2139	144	4	0.492	3.74400	-0.945	0.62972	0.3543	1.2602	0.2811	0.2941	1.1763	20.694	8.1472

alpha 0.026
n 1.504
m = 1-1/n 0.219
 θ_r 0.044
 θ_{sat} 0.389
 K_{sat}
[cm/d] 32.736
fitted m 0.219

l
parameter -0.835

K_{sat}
[in/hr] 0.537

K_{sat}
[cm/hr] 1.364

Qf4

Fitted van Genuchten curve:

	Fitted van Genuchten curve:					A	B	C	D	E	$k(\psi)/k_{sr}$	ψ_f	ψ_f	ψ_f
	θ_v	ψ	$\Delta\psi$	Θ	$\alpha\psi$	$k(\psi)$	$k(\psi)$	$k(\psi)$	k_{sr}	$k(\psi)/k_{sr}$	Ave.	Step	Sum	Sum
	[cm ³ /cm ³]	[cm]	[cm]	[-]							Step		[cm]	[in]
	0.361	0.1	0.0	1.000	0.003	0.927	1.000	0.859	1.000	0.859	0.743	0.000	0.000	0.000
	0.360	1.0	0.9	0.998	0.030	0.794	0.999	0.628	1.001	0.628	0.569	0.512	0.512	0.202
	0.359	2.0	1.0	0.995	0.060	0.718	0.996	0.512	1.002	0.511	0.471	0.471	0.983	0.387
	0.358	3.0	1.0	0.991	0.090	0.662	0.993	0.432	1.003	0.431	0.375	0.375	1.358	0.535
	0.355	5.0	2.0	0.981	0.150	0.574	0.987	0.321	1.007	0.319	0.280	0.560	1.918	0.755
	0.351	7.0	2.0	0.970	0.210	0.505	0.979	0.244	1.011	0.241	0.201	0.401	2.319	0.913
	0.345	10.0	3.0	0.951	0.300	0.418	0.965	0.163	1.018	0.160	0.141	0.423	2.742	1.079
	0.341	12.0	2.0	0.938	0.360	0.369	0.956	0.124	1.023	0.121	0.100	0.200	2.941	1.158
	0.335	15.0	3.0	0.919	0.450	0.302	0.942	0.081	1.030	0.078	0.064	0.191	3.132	1.233
	0.328	18.0	3.0	0.899	0.540	0.242	0.928	0.050	1.038	0.049	0.041	0.124	3.256	1.282
	0.324	20.0	2.0	0.886	0.600	0.205	0.918	0.036	1.044	0.034	0.026	0.052	3.309	1.303
	0.318	23.0	3.0	0.867	0.690	0.154	0.904	0.019	1.052	0.018	0.015	0.044	3.353	1.320
	0.314	25.0	2.0	0.855	0.750	0.121	0.895	0.012	1.057	0.011	0.006	0.013	3.366	1.325
	0.304	30.0	5.0	0.825	0.900	0.046	0.873	0.002	1.070	0.002	0.001	0.005	3.370	1.327
	0.302	31.0	1.0	0.819	0.930	0.032	0.869	0.001	1.073	0.001	0.002	0.002	3.372	1.327
	0.295	35.0	4.0	0.797	1.050	-0.022	0.853	0.000	1.083	0.000	0.002	0.010	3.382	1.331
	0.290	38.0	3.0	0.782	1.140	-0.061	0.841	0.003	1.091	0.002	0.007	0.022	3.404	1.340
1-Day	0.287	40.0	2.0	0.772	1.200	-0.086	0.833	0.005	1.096	0.005	0.014	0.027	3.432	1.351
	0.279	45.0	5.0	0.748	1.350	-0.145	0.815	0.014	1.108	0.013	0.019	0.094	3.526	1.388
	0.272	50.0	5.0	0.726	1.500	-0.200	0.798	0.026	1.119	0.023	0.029	0.144	3.669	1.445
	0.271	51.0	1.0	0.722	1.530	-0.211	0.795	0.028	1.121	0.025	0.036	0.036	3.705	1.459
	0.266	55.0	4.0	0.706	1.650	-0.253	0.783	0.039	1.130	0.035	0.048	0.191	3.896	1.534
	0.260	60.0	5.0	0.687	1.800	-0.303	0.768	0.054	1.141	0.047	0.061	0.304	4.200	1.654
	0.254	65.0	5.0	0.670	1.950	-0.351	0.754	0.070	1.152	0.061	0.074	0.372	4.572	1.800

501

	0.249	70.0	5.0	0.654	2.100	-0.396	0.741	0.086	1.162	0.074	0.083	0.413	4.985	1.962
	0.244	75.0	5.0	0.639	2.250	-0.440	0.729	0.103	1.171	0.088	0.095	0.474	5.459	2.149
	0.243	76.0	1.0	0.636	2.280	-0.449	0.727	0.106	1.173	0.091	0.102	0.102	5.561	2.189
	0.239	80.0	4.0	0.624	2.400	-0.483	0.718	0.120	1.180	0.102	0.108	0.434	5.994	2.360
	0.236	84.0	4.0	0.614	2.520	-0.516	0.709	0.134	1.188	0.113	0.121	0.482	6.477	2.550
	0.235	85.0	1.0	0.611	2.550	-0.524	0.707	0.137	1.189	0.115	0.129	0.129	6.605	2.601
	0.231	90.0	5.0	0.599	2.700	-0.564	0.697	0.154	1.198	0.129	0.142	0.708	7.313	2.879
	0.227	95.0	5.0	0.587	2.850	-0.602	0.687	0.171	1.207	0.142	0.155	0.773	8.086	3.183
	0.224	100.0	5.0	0.576	3.000	-0.639	0.678	0.188	1.215	0.155	0.167	0.836	8.922	3.512
	0.220	105.0	5.0	0.565	3.150	-0.676	0.669	0.204	1.223	0.167	0.179	0.897	9.819	3.866
	0.217	110.0	5.0	0.556	3.300	-0.711	0.661	0.221	1.230	0.180	0.191	0.957	10.776	4.243
	0.214	115.0	5.0	0.546	3.450	-0.746	0.653	0.237	1.238	0.192	0.201	1.005	11.781	4.638
	0.211	120.0	5.0	0.537	3.600	-0.780	0.645	0.253	1.245	0.203	0.209	1.045	12.826	5.050
5-Day	0.209	123.0	3.0	0.532	3.690	-0.800	0.641	0.263	1.249	0.210	0.215	0.644	13.470	5.303

alpha	0.030
n	1.450
m = 1-1/n	0.219
θ_r	0.037
θ_{sat}	0.361
K_{sat}	
[cm/d]	23.599
fitted m	0.219
l	
parameter	-1.113
K_{sat} [in/hr]	0.387
K_{sat}	
[cm/hr]	0.983

Qf5	Fitted van Genuchten curve:					A	B	C	D	E				
	θ_v [cm ³ /cm ³]	ψ [cm]	$\Delta\psi$ [cm]	Θ [-]	$\alpha\Psi$	$k(\psi)$	$k(\psi)$	$k(\psi)$	k_{sr}	$k(\psi)/k_{sr}$	$k(\psi)/k_{sr}$ Ave. Step	Ψ_r Step	Ψ_r Sum [cm]	Ψ_r Sum [in]
	0.345	0.100	0.000	1.000	0.004	0.959	1.000	0.920	1.000	0.920	0.814	0.000	0.000	0.000
	0.344	1.000	0.900	0.998	0.042	0.843	0.998	0.708	1.001	0.707	0.642	0.578	0.578	0.228
	0.343	2.000	1.000	0.993	0.084	0.765	0.995	0.578	1.003	0.577	0.528	0.528	1.106	0.436
	0.341	3.000	1.000	0.986	0.126	0.702	0.990	0.483	1.005	0.480	0.409	0.409	1.516	0.597
	0.336	5.000	2.000	0.971	0.210	0.598	0.978	0.342	1.011	0.338	0.288	0.576	2.092	0.824
	0.330	7.000	2.000	0.952	0.294	0.511	0.964	0.242	1.019	0.238	0.187	0.373	2.465	0.970
	0.320	10.000	3.000	0.920	0.420	0.397	0.940	0.140	1.031	0.135	0.112	0.337	2.801	1.103
	0.314	12.000	2.000	0.898	0.504	0.330	0.923	0.093	1.041	0.089	0.066	0.132	2.933	1.155
	0.304	15.000	3.000	0.865	0.630	0.236	0.898	0.045	1.055	0.043	0.029	0.088	3.021	1.190
	0.294	18.000	3.000	0.833	0.756	0.151	0.873	0.017	1.071	0.016	0.011	0.034	3.055	1.203
	0.287	20.000	2.000	0.812	0.840	0.097	0.856	0.007	1.081	0.006	0.003	0.006	3.062	1.205
	0.275	24.000	4.000	0.773	1.008	-0.005	0.825	0.000	1.101	0.000	0.000	0.001	3.063	1.206
	0.272	25.000	1.000	0.763	1.050	-0.029	0.818	0.001	1.106	0.001	0.006	0.006	3.069	1.208
	0.259	30.000	5.000	0.720	1.260	-0.145	0.782	0.013	1.131	0.011	0.021	0.106	3.174	1.250
	0.247	35.000	5.000	0.680	1.470	-0.252	0.751	0.036	1.154	0.031	0.033	0.167	3.341	1.315
1-day	0.245	36.000	1.000	0.673	1.512	-0.273	0.745	0.041	1.159	0.036	0.046	0.046	3.387	1.333
	0.236	40.000	4.000	0.646	1.680	-0.354	0.722	0.065	1.177	0.055	0.061	0.243	3.629	1.429
	0.232	42.000	2.000	0.633	1.764	-0.393	0.711	0.078	1.186	0.066	0.074	0.148	3.777	1.487
	0.227	45.000	3.000	0.615	1.890	-0.450	0.696	0.098	1.199	0.082	0.095	0.286	4.064	1.600
	0.218	50.000	5.000	0.587	2.100	-0.542	0.672	0.133	1.220	0.109	0.123	0.613	4.676	1.841
	0.211	55.000	5.000	0.562	2.310	-0.631	0.651	0.169	1.239	0.136	0.149	0.746	5.422	2.135
	0.204	60.000	5.000	0.540	2.520	-0.716	0.632	0.204	1.258	0.162	0.175	0.875	6.297	2.479
	0.197	65.000	5.000	0.520	2.730	-0.798	0.614	0.240	1.276	0.188	0.193	0.964	7.261	2.859
	0.195	67.000	2.000	0.512	2.814	-0.830	0.607	0.254	1.284	0.198	0.205	0.410	7.671	3.020

	0.192	70.000	3.000	0.501	2.940	-0.877	0.597	0.275	1.294	0.212	0.224	0.672	8.343	3.284
	0.187	75.000	5.000	0.484	3.150	-0.954	0.582	0.309	1.311	0.236	0.247	1.234	9.577	3.770
	0.182	80.000	5.000	0.468	3.360	-1.029	0.568	0.342	1.327	0.258	0.269	1.343	10.920	4.299
	0.177	85.000	5.000	0.454	3.570	-1.103	0.555	0.375	1.342	0.279	0.289	1.447	12.367	4.869
	0.173	90.000	5.000	0.441	3.780	-1.174	0.543	0.407	1.357	0.300	0.309	1.546	13.913	5.478
	0.170	95.000	5.000	0.429	3.990	-1.244	0.532	0.437	1.371	0.319	0.328	1.641	15.554	6.124
	0.166	100.000	5.000	0.417	4.200	-1.312	0.521	0.467	1.385	0.337	0.341	1.705	17.260	6.795
	0.165	102.000	2.000	0.413	4.284	-1.339	0.517	0.479	1.391	0.345	0.350	0.700	17.960	7.071
	0.163	105.000	3.000	0.407	4.410	-1.379	0.511	0.497	1.399	0.355	0.364	1.091	19.050	7.500
	0.160	110.000	5.000	0.397	4.620	-1.444	0.502	0.525	1.412	0.372	0.374	1.869	20.919	8.236
	0.159	111.000	1.000	0.395	4.662	-1.457	0.500	0.531	1.414	0.375	0.382	0.382	21.301	8.386
5-day	0.157	115.000	4.000	0.387	4.830	-1.509	0.493	0.553	1.424	0.388	0.396	1.584	22.885	9.010

504

alpha	0.042
n	1.584
m = 1-1/n	0.275
θ_r	0.038
θ_{sat}	0.345
K_{sat}	
[cm/d]	30.287
fitted m	0.275
l	
parameter	-1.358
K_{sat}	
[in/hr]	0.497
K_{sat}	
[cm/hr]	1.262

Qp1	Fitted van Genuchten curve:					A	B	C	D	E				
	θ_v [cm ³ /cm ³]	ψ [cm]	$\Delta\psi$ [cm]	Θ [-]	$\alpha\Psi$	$k(\psi)$	$k(\psi)$	$k(\psi)$	k_{sr}	$k(\psi)/k_{sr}$	$k(\psi)/k_{sr}$ Ave. Step	ψ_f Step	ψ_f Sum [cm]	ψ_f Sum [in]
	0.3810	0.1	0	1.000	0.004	0.954	1.000	0.910	1.000	0.910	0.803	0.000	0.000	0.000
	0.3803	1	0.9	0.998	0.037	0.836	0.998	0.697	1.001	0.696	0.634	0.570	0.570	0.224
	0.3789	2	1	0.994	0.074	0.761	0.995	0.572	1.003	0.571	0.525	0.525	1.095	0.431
	0.3771	3	1	0.988	0.111	0.701	0.990	0.482	1.005	0.479	0.413	0.413	1.508	0.594
	0.3726	5	2	0.975	0.185	0.604	0.979	0.350	1.011	0.346	0.299	0.597	2.105	0.829
	0.3673	7	2	0.960	0.259	0.524	0.966	0.256	1.018	0.251	0.202	0.404	2.509	0.988
	0.3585	10	3	0.933	0.370	0.421	0.943	0.157	1.030	0.153	0.130	0.390	2.899	1.142
	0.3523	12	2	0.915	0.444	0.360	0.928	0.111	1.038	0.107	0.083	0.166	3.066	1.207
	0.3429	15	3	0.887	0.555	0.276	0.903	0.062	1.052	0.059	0.044	0.132	3.198	1.259
	0.3335	18	3	0.860	0.666	0.200	0.879	0.031	1.066	0.029	0.023	0.068	3.266	1.286
	0.3274	20	2	0.842	0.740	0.152	0.864	0.017	1.076	0.016	0.010	0.021	3.287	1.294
	0.3186	23	3	0.815	0.851	0.085	0.841	0.005	1.090	0.005	0.003	0.009	3.295	1.297
	0.3129	25	2	0.799	0.925	0.042	0.826	0.001	1.100	0.001	0.002	0.003	3.298	1.298
	0.2996	30	5	0.759	1.110	-0.059	0.792	0.002	1.124	0.002	0.007	0.034	3.332	1.312
	0.2875	35	5	0.723	1.295	-0.152	0.760	0.013	1.147	0.012	0.019	0.095	3.427	1.349
	0.2766	40	5	0.691	1.480	-0.240	0.731	0.031	1.170	0.026	0.035	0.175	3.602	1.418
	0.2667	45	5	0.662	1.665	-0.323	0.705	0.052	1.191	0.043	0.047	0.235	3.837	1.511
1-day	0.2631	47	2	0.651	1.739	-0.355	0.695	0.061	1.200	0.051	0.056	0.112	3.950	1.555
	0.2578	50	3	0.636	1.850	-0.402	0.681	0.075	1.212	0.062	0.064	0.191	4.141	1.630
	0.2561	51	1	0.631	1.887	-0.417	0.676	0.080	1.216	0.065	0.073	0.073	4.213	1.659
	0.2497	55	4	0.611	2.035	-0.477	0.659	0.099	1.232	0.080	0.089	0.357	4.571	1.799
	0.2423	60	5	0.590	2.220	-0.549	0.639	0.123	1.251	0.098	0.116	0.579	5.149	2.027
	0.2355	65	5	0.570	2.405	-0.619	0.620	0.147	1.270	0.116	0.130	0.648	5.797	2.282
	0.2293	70	5	0.551	2.590	-0.686	0.603	0.171	1.287	0.133	0.141	0.706	6.503	2.560

0.2258	73	3	0.541	2.701	-0.725	0.594	0.186	1.298	0.143	0.154	0.462	6.965	2.742	
0.2236	75	2	0.534	2.775	-0.751	0.588	0.195	1.305	0.149	0.164	0.329	7.294	2.872	
0.2183	80	5	0.519	2.960	-0.814	0.573	0.218	1.321	0.165	0.179	0.896	8.190	3.224	
0.2135	85	5	0.504	3.145	-0.876	0.559	0.240	1.337	0.180	0.193	0.966	9.156	3.605	
0.2125	86	1	0.502	3.182	-0.888	0.557	0.244	1.340	0.182	0.201	0.201	9.357	3.684	
0.2089	90	4	0.491	3.330	-0.936	0.547	0.262	1.352	0.194	0.212	0.849	10.206	4.018	
0.2047	95	5	0.478	3.515	-0.994	0.535	0.283	1.367	0.207	0.225	1.123	11.330	4.460	
0.2007	100	5	0.467	3.700	-1.051	0.524	0.303	1.382	0.219	0.236	1.181	12.511	4.926	
0.1970	105	5	0.456	3.885	-1.107	0.513	0.323	1.396	0.231	0.247	1.237	13.747	5.412	
0.1935	110	5	0.445	4.070	-1.161	0.503	0.342	1.409	0.242	0.255	1.275	15.022	5.914	
0.1903	115	5	0.436	4.255	-1.214	0.494	0.360	1.422	0.253	0.262	1.311	16.333	6.430	
0.1872	120	5	0.427	4.440	-1.267	0.485	0.378	1.435	0.263	0.268	1.341	17.674	6.958	
0.1860	122	2	0.423	4.514	-1.287	0.482	0.385	1.440	0.267	0.274	0.548	18.222	7.174	
0.1848	124	4	0.420	4.588	-1.308	0.479	0.392	1.445	0.271	0.277	1.107	19.329	7.610	
0.1843	125	1	0.418	4.625	-1.318	0.477	0.395	1.448	0.273	0.282	0.282	19.612	7.721	
0.1820	129	4	0.411	4.773	-1.359	0.471	0.409	1.458	0.281	0.290	1.160	20.772	8.178	
0.1815	130	5	0.410	4.810	-1.369	0.469	0.412	1.460	0.282	0.295	1.475	22.246	8.758	
0.1789	135	5	0.402	4.995	-1.418	0.462	0.429	1.472	0.291	0.303	1.516	23.762	9.355	
5-day	0.1764	140	5	0.395	5.180	-1.467	0.454	0.444	1.483	0.300	0.311	1.555	25.318	9.968

alpha 0.037

n 1.549

m = 1-1/n 0.301

θ_r 0.043

θ_{sat} 0.381

K_{sat}
[cm/d] 50.599

fitted m 0.301

l -1.069

K_{sat}
[in/hr] 0.830

K_{sat}
[cm/hr] 2.108

Qp2	Fitted van Genuchten curve:					A	B	C	D	E				
	θ_v [cm ³ /cm ³]	ψ [cm]	$\Delta\psi$ [cm]	Θ [-]	$\alpha\Psi$	k(ψ)	k(ψ)	k(ψ)	k _{sr}	k(ψ)/k _{sr}	k(ψ)/k _{sr} Ave. Step	Ψ_f Step	Ψ_f Sum [cm]	Ψ_f Sum [in]
	0.3400	0.1	0	1.00	0.00	0.96	1.000	0.915	1.000	0.915	0.806	0.000	0.000	0.000
	0.3393	1	0.9	1.00	0.04	0.84	0.998	0.698	1.001	0.697	0.631	0.568	0.568	0.223
	0.3378	2	1	0.99	0.08	0.76	0.993	0.566	1.004	0.564	0.515	0.515	1.083	0.426
	0.3359	3	1	0.99	0.13	0.69	0.986	0.470	1.007	0.467	0.395	0.395	1.478	0.582
	0.3312	5	2	0.97	0.21	0.59	0.970	0.329	1.015	0.324	0.274	0.549	2.027	0.798
	0.3256	7	2	0.95	0.29	0.50	0.952	0.230	1.025	0.225	0.175	0.349	2.376	0.935
	0.3163	10	3	0.92	0.42	0.39	0.920	0.130	1.042	0.125	0.103	0.308	2.684	1.057
	0.3098	12	2	0.90	0.50	0.32	0.899	0.085	1.055	0.081	0.059	0.119	2.803	1.103
	0.3001	15	3	0.87	0.63	0.23	0.866	0.041	1.074	0.038	0.026	0.078	2.880	1.134
	0.2906	18	3	0.83	0.76	0.15	0.834	0.015	1.095	0.014	0.010	0.029	2.909	1.145
	0.2845	20	2	0.81	0.84	0.10	0.814	0.006	1.108	0.005	0.003	0.006	2.915	1.148
	0.2758	23	3	0.78	0.97	0.02	0.784	0.000	1.129	0.000	0.000	0.001	2.916	1.148
	0.2702	25	2	0.77	1.05	-0.03	0.766	0.000	1.143	0.000	0.005	0.009	2.925	1.152
	0.2574	30	5	0.72	1.26	-0.14	0.723	0.010	1.176	0.009	0.016	0.081	3.007	1.184
	0.2526	32	2	0.71	1.34	-0.18	0.707	0.017	1.189	0.014	0.028	0.055	3.062	1.205
	0.2459	35	3	0.68	1.47	-0.25	0.684	0.029	1.209	0.024	0.041	0.123	3.185	1.254
1-day	0.2357	40	5	0.65	1.68	-0.35	0.650	0.051	1.240	0.041	0.058	0.291	3.477	1.369
	0.2266	45	5	0.62	1.89	-0.44	0.620	0.074	1.270	0.059	0.075	0.376	3.853	1.517
	0.2185	50	5	0.59	2.10	-0.53	0.592	0.098	1.299	0.076	0.091	0.457	4.310	1.697
	0.2112	55	5	0.57	2.31	-0.62	0.568	0.122	1.327	0.092	0.107	0.533	4.843	1.907
	0.2046	60	5	0.55	2.52	-0.70	0.545	0.145	1.354	0.107	0.115	0.577	5.420	2.134
	0.1986	65	5	0.53	2.73	-0.78	0.525	0.167	1.380	0.121	0.127	0.637	6.057	2.385
	0.1974	66	1	0.52	2.77	-0.79	0.522	0.171	1.385	0.124	0.135	0.135	6.192	2.438
	0.1963	67	1	0.52	2.81	-0.81	0.518	0.176	1.390	0.126	0.141	0.141	6.333	2.493

0.1931	70	3	0.51	2.94	-0.86	0.507	0.188	1.404	0.134	0.150	0.449	6.783	2.670
0.1881	75	5	0.49	3.15	-0.93	0.490	0.208	1.428	0.145	0.159	0.796	7.579	2.984
0.1835	80	5	0.47	3.36	-1.00	0.475	0.227	1.451	0.156	0.165	0.827	8.406	3.309
0.1792	85	5	0.46	3.57	-1.07	0.461	0.244	1.474	0.166	0.174	0.872	9.278	3.653
0.1761	89	4	0.45	3.74	-1.13	0.450	0.258	1.491	0.173	0.182	0.727	10.004	3.939
0.1753	90	1	0.45	3.78	-1.14	0.447	0.261	1.495	0.175	0.186	0.186	10.190	4.012
0.1717	95	5	0.44	3.99	-1.21	0.435	0.277	1.516	0.183	0.193	0.965	11.156	4.392
0.1683	100	5	0.42	4.20	-1.28	0.424	0.292	1.536	0.190	0.199	0.993	12.148	4.783
0.1651	105	5	0.41	4.41	-1.34	0.413	0.307	1.556	0.197	0.203	1.015	13.164	5.183
0.1622	110	5	0.40	4.62	-1.40	0.403	0.320	1.575	0.203	0.209	1.044	14.208	5.594
0.1605	113	3	0.40	4.75	-1.44	0.398	0.328	1.586	0.207	0.213	0.638	14.846	5.845
0.1594	115	2	0.39	4.83	-1.47	0.394	0.333	1.593	0.209	0.214	0.428	15.274	6.013
0.1568	120	5	0.39	5.04	-1.53	0.385	0.345	1.611	0.214	0.219	1.095	16.369	6.445
0.1548	124	4	0.38	5.21	-1.57	0.378	0.355	1.626	0.218	0.223	0.892	17.262	6.796
0.1543	125	1	0.38	5.25	-1.59	0.377	0.357	1.629	0.219	0.226	0.226	17.487	6.885

5-day

0.1520	130	5	0.37	5.46	-1.64	0.369	0.368	1.646	0.224	0.230	1.148	18.635	7.337
--------	-----	---	------	------	-------	-------	-------	-------	-------	-------	-------	--------	-------

alpha	0.042
n	1.573
m = 1-1/n	0.364
θ_r	0.042
θ_{sat}	0.340
K_{sat}	
[cm/d]	34.852
fitted m	0.364
l	
parameter	-1.390
K_{sat}	
[in/hr]	0.572
K_{sat}	
[cm/hr]	1.452

Qp3	Fitted van Genuchten curve:				$\alpha\Psi$	A	B	C	D	E	$k(\psi)/k_{sr}$	Ψ_f	Ψ_f	Ψ_f
	θ_v	ψ	$\Delta\psi$	Θ										
	[cm ³ /cm ³]	[cm]	[cm]	[-]										
	0.3770	0.1	0	1.00	0.00	0.97	1.00	0.94	1.00	0.94	0.85	0.00	0.00	0.00
	0.3765	1	0.9	1.00	0.03	0.87	1.00	0.76	1.00	0.76	0.71	0.64	0.64	0.25
	0.3755	2	1	1.00	0.06	0.81	1.00	0.65	1.00	0.65	0.61	0.61	1.24	0.49
	0.3742	3	1	0.99	0.09	0.76	0.99	0.57	1.00	0.56	0.50	0.50	1.74	0.69
	0.3708	5	2	0.98	0.16	0.67	0.98	0.44	1.01	0.43	0.38	0.77	2.51	0.99
	0.3667	7	2	0.97	0.22	0.60	0.97	0.34	1.01	0.34	0.28	0.56	3.07	1.21
	0.3595	10	3	0.95	0.31	0.50	0.96	0.23	1.02	0.23	0.20	0.60	3.67	1.45
	0.3543	12	2	0.93	0.37	0.45	0.94	0.18	1.03	0.17	0.14	0.28	3.96	1.56
	0.3461	15	3	0.91	0.47	0.37	0.92	0.11	1.04	0.11	0.09	0.27	4.22	1.66
	0.3378	18	3	0.88	0.56	0.29	0.90	0.07	1.05	0.07	0.06	0.17	4.39	1.73
	0.3322	20	2	0.87	0.62	0.25	0.89	0.05	1.06	0.05	0.03	0.07	4.46	1.76
	0.3240	23	3	0.84	0.71	0.18	0.87	0.03	1.07	0.02	0.02	0.06	4.52	1.78
	0.3187	25	2	0.83	0.78	0.14	0.86	0.01	1.08	0.01	0.01	0.01	4.53	1.78
	0.3058	30	5	0.79	0.93	0.04	0.82	0.00	1.10	0.00	0.00	0.01	4.54	1.79
	0.3034	31	1	0.78	0.96	0.02	0.82	0.00	1.11	0.00	0.00	0.00	4.54	1.79
	0.2939	35	4	0.75	1.09	-0.05	0.79	0.00	1.12	0.00	0.01	0.05	4.59	1.81
	0.2828	40	5	0.72	1.24	-0.14	0.76	0.01	1.14	0.01	0.02	0.12	4.71	1.85
	0.2727	45	5	0.69	1.40	-0.22	0.74	0.03	1.16	0.02	0.03	0.16	4.87	1.92
1-day	0.2635	50	5	0.66	1.55	-0.30	0.71	0.05	1.18	0.04	0.05	0.24	5.11	2.01
	0.2617	51	1	0.66	1.58	-0.31	0.71	0.05	1.19	0.04	0.06	0.06	5.17	2.03
	0.2550	55	5	0.64	1.71	-0.38	0.69	0.07	1.20	0.06	0.07	0.37	5.54	2.18

0.2472	60	5	0.61	1.86	-0.45	0.67	0.09	1.22	0.07	0.09	0.43	5.96	2.35	
0.2400	65	5	0.59	2.02	-0.52	0.65	0.11	1.24	0.09	0.10	0.51	6.47	2.55	
0.2386	66	1	0.59	2.05	-0.53	0.65	0.12	1.24	0.10	0.11	0.11	6.58	2.59	
0.2334	70	4	0.57	2.17	-0.59	0.63	0.14	1.26	0.11	0.12	0.48	7.05	2.78	
0.2321	71	1	0.57	2.20	-0.60	0.63	0.14	1.26	0.11	0.13	0.13	7.18	2.83	
0.2272	75	4	0.55	2.33	-0.65	0.62	0.16	1.27	0.13	0.15	0.58	7.77	3.06	
0.2216	80	5	0.54	2.48	-0.72	0.60	0.19	1.29	0.15	0.16	0.79	8.56	3.37	
0.2163	85	5	0.52	2.64	-0.78	0.59	0.21	1.30	0.16	0.17	0.85	9.41	3.71	
0.2133	88	3	0.51	2.73	-0.82	0.58	0.23	1.31	0.17	0.18	0.55	9.96	3.92	
0.2114	90	2	0.51	2.79	-0.85	0.57	0.24	1.32	0.18	0.19	0.39	10.35	4.07	
0.2068	95	5	0.49	2.95	-0.91	0.56	0.26	1.33	0.19	0.21	1.03	11.37	4.48	
0.2026	100	5	0.48	3.10	-0.96	0.55	0.28	1.35	0.21	0.22	1.08	12.45	4.90	
0.2001	103	3	0.47	3.19	-1.00	0.54	0.29	1.36	0.22	0.23	0.68	13.13	5.17	
0.1985	105	2	0.47	3.26	-1.02	0.54	0.30	1.36	0.22	0.24	0.47	13.60	5.36	
0.1948	110	5	0.46	3.41	-1.08	0.53	0.32	1.38	0.24	0.25	1.24	14.85	5.85	
0.1912	115	5	0.45	3.57	-1.14	0.52	0.35	1.39	0.25	0.26	1.30	16.15	6.36	
0.1879	120	5	0.44	3.72	-1.19	0.51	0.37	1.40	0.26	0.27	1.34	17.48	6.88	
0.1853	124	4	0.43	3.84	-1.23	0.50	0.38	1.41	0.27	0.28	1.11	18.59	7.32	
0.1847	125	1	0.43	3.88	-1.24	0.50	0.39	1.41	0.27	0.28	0.28	18.88	7.43	
0.1817	130	5	0.42	4.03	-1.30	0.49	0.41	1.43	0.28	0.29	1.45	20.33	8.00	
0.1806	132	2	0.42	4.09	-1.32	0.49	0.41	1.43	0.29	0.30	0.59	20.92	8.24	
0.1789	135	3	0.41	4.19	-1.35	0.48	0.43	1.44	0.30	0.31	0.92	21.84	8.60	
5-day	0.1762	140	5	0.40	4.34	-1.40	0.48	0.44	1.45	0.31	0.32	1.58	23.42	9.22

alpha 0.031

n	1.597
m = 1-1/n	0.306
θ_r	0.041
θ_{sat}	0.377
K_{sat}	
[cm/d]	40.886
fitted m	0.306
l	
parameter	-0.868

K_{sat}	
[in/hr]	0.671
K_{sat}	
[cm/hr]	1.704

NOTE: Flowrates calculated in cfs

```

1*****
*                                     *
* FLOOD HYDROGRAPH PACKAGE (HEC-1) *
*   JUN 1998                         *
*   VERSION 4.1                       *
*                                     *
* RUN DATE 13AUG10 TIME 14:25:18 *
*                                     *
*****
*                                     *
*                                     *
* U.S. ARMY CORPS OF ENGINEERS *
* HYDROLOGIC ENGINEERING CENTER *
*   609 SECOND STREET           *
* DAVIS, CALIFORNIA 95616      *
*   (916) 756-1104             *
*                                     *
*****

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512

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X X XXXXXXXX XXXXX X
X X X X X XX
X X X X X
XXXXXXXX XXXX X XXXXX X
X X X X X
X X X X X
X X XXXXXXXX XXXXX XXX

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THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE.

THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION
NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY,
DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL LOSS RATE:GREEN AND AMPT INFILTRATION
KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

*DIAGRAM

*** FREE ***

```

1 ID *****
2 ID * .....*
3 ID * : :*
4 ID * : EFFECT OF SPATIAL AND TEMPORAL VARIABILITY :*
5 ID * : OF ANTECEDENT MOISTURE CONTENT ON :*
6 ID * : MODEL-GENERATED RUNOFF :*
7 ID * : FROM AN ARID WATERSHED :*
8 ID * : :*
9 ID * : .....*
10 ID * : RETURN PERIOD__ 100-YEAR :*
11 ID * : DISTRIBUTION__ 6-HOUR SDN 5 :*
12 ID * : FILENAME_____0_day_Keffx4.h1 :*
13 ID * : DATE_____08/9/10 :*
14 ID * : MODELED BY_____WJM :*
15 ID * : .....*
16 ID *****
17 ID * : :*
18 ID * : 1. Total watershed area is 88 sq. mi. :*
19 ID * : 2. DARF is 0.62 for area :*
20 ID * : 3. 500 Year Precip. Value is 3.02 in. :*
21 ID * : 4. 500 Year DARF value 0.62 :*
22 ID * : 5. 100 Year DARF value 0.44 :*
23 ID * : 6. 50 Year DARF value 0.38 :*
24 ID * : 7. 25 Year DARF value 0.32 :*
25 ID * : 8. 10 Year DARF Value 0.26 :*
26 ID * : 9. 2 Year DARF Value 0.15 :*
27 ID * :10. USBR Lag time :*
28 ID * : .....*
29 ID *****
30 ID
31 IT 5 0000 000 200
32 IO 5

```

33 IN 5 0 0
 34 JR PREC 0.62 0.44 0.38 0.32 0.26

 35 KK WSage
 36 KM White Sage Gap
 37 BA 7.859
 38 PB 3.02
 39 PC 0.000 0.020 0.059 0.080 0.110 0.144 0.150 0.160 0.168 0.171
 40 PC 0.180 0.182 0.187 0.190 0.197 0.202 0.210 0.220 0.230 0.241
 41 PC 0.250 0.259 0.265 0.280 0.290 0.300 0.305 0.309 0.310 0.317
 42 PC 0.321 0.327 0.333 0.346 0.361 0.381 0.408 0.430 0.477 0.514
 43 PC 0.561 0.630 0.710 0.720 0.731 0.752 0.779 0.790 0.795 0.804
 44 PC 0.810 0.820 0.826 0.840 0.859 0.889 0.910 0.938 0.966 0.970
 45 PC 0.974 0.979 0.981 0.983 0.985 0.989 0.990 0.992 0.993 0.996
 46 PC 0.997 0.999 1.000
 47 KM Ia Deficit Cap Ks IMP
 48 LG 0.046 0.0 0.001 0.230 0.855
 49 UD 0.60

*

HEC-1 INPUT

PAGE 2

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

50 KK RWsage
 51 KM Route WSage through RFan
 52 KM N K X
 53 RM 12 1.03 0.15
 *

 54 KK RFan
 55 KM Red Alluvial Fan
 56 BA 12.565
 57 PB 3.02
 58 KM Ia Deficit Cap Ks IMP
 59 LG 0.038 0.000 0.001 0.264 0.277
 60 UD 1.19

514
1

	*
61	KK NWest
62	KM North west mountains
63	BA 12.269
64	PB 3.02
65	KM Ia Deficit Cap Ks IMP
66	LG 0.036 0.000 0.001 0.239 0.552
67	UD 0.67
	*
68	KK CRfan
69	KM Redfan concentration point
70	KO 2
71	HC 3
	*
72	KK RCRfan
73	KM Route Redfan concentration point
74	KM through channel at west side of floodplain
75	KM N K X
76	RM 11 0.94 0.15
	*
77	KK WCent
78	KM West central mountains
79	BA 9.403
80	PB 3.02
81	KM Ia Deficit Cap Ks IMP
82	LG 0.042 0.000 0.001 0.239 0.407
83	UD 0.46
	*
84	KK RCWCent
85	KM Route CWCent along west side of floodplain
86	KM N K X
87	RM 5 0.45 0.15

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

88 KK Fplain
 89 KM Floodplain
 90 BA 10.614
 91 PB 3.02
 92 KM Ia Deficit Cap Ks IMP
 93 LG 0.043 0.000 0.001 0.271 0.245
 94 UD 0.92
 *

95 KK CFplain
 96 KO 2
 97 HC 3
 *

98 KKRCFplain
 99 KM Route Flood plain concentration point
 100 KM N K X
 101 RM 5 0.44 0.15
 *

102 KK SCen
 103 KM South central mountains
 104 BA 7.562
 105 PB 3.02
 106 KM Ia Deficit Cap Ks IMP
 107 LG 0.041 0.000 1.547 0.258 0.247
 108 UD 0.64
 *

109 KK HVal
 110 KM High valley on east side of watershed

111 BA 11.137
 112 PB 3.02
 113 KM Ia Deficit Cap Ks IMP
 114 LG 0.049 0.000 0.001 0.278 0.630
 115 UD 0.86
 116 KO 2

*

117 KK RHval
 118 KM Route High Valley basin
 119 KM N K X
 120 RM 9 0.75 0.15

*

121 KK SOct
 122 KM South octagon area and east mountains
 123 BA 10.746
 124 PB 3.02
 125 KM Ia Deficit Cap Ks IMP
 126 LG 0.039 0.000 0.001 0.234 0.246
 127 UD 0.92

*

1 HEC-1 INPUT PAGE 4

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

128 KK COut
 129 KO 2
 130 HC 4

*

131 KK SEast
 132 KM Southeast adjacent basin
 133 BA 3.707
 134 PB 3.02
 135 KM Ia Deficit Cap Ks IMP

517

136 LG 0.044 0.000 0.001 0.248 0.653
 137 UD 0.45
 *
 138 KK SWest
 139 KM South west adjacent basin
 140 BA 2.156
 141 PB 3.02
 142 KM Ia Deficit Cap Ks IMP
 143 LG 0.039 0.000 0.001 0.274 0.680
 144 UD 0.25
 *
 145 KK CTotal
 146 KM KO 2
 147 HC 3
 *
 148 ZZ

518

1

SCHEMATIC DIAGRAM OF STREAM NETWORK

INPUT

LINE (V) ROUTING (--->) DIVERSION OR PUMP FLOW

NO. (.) CONNECTOR (<---) RETURN OF DIVERTED OR PUMPED FLOW

35 WSage
 V
 V
 50 RWsage
 .
 .
 54 . RFan
 .
 .
 61 . . NWest
 .
 .

68	CRfan.....			
	V			
	V			
72	RCRfan			
	.			
	.			
77	. WCent			
	V			
	V			
84	. RCWCent			
	.			
	.			
88	. . Fplain			
	.			
	.			
95	CFplain.....			
	V			
	V			
98	RCFplain			
	.			
	.			
102	. SCen			
	.			
	.			
109	. . HVal			
	V			
	V			
117	. . RHval			
	.			
	.			
121	. . . SOct			
	.			
	.			
128	COut.....			
	.			
	.			
131	. SEast			

138 SWest

145 CTotal.....

(***) RUNOFF ALSO COMPUTED AT THIS LOCATION

```

*****
*
* FLOOD HYDROGRAPH PACKAGE (HEC-1) *
*   JUN 1998 *
*   VERSION 4.1 *
*
* RUN DATE 13AUG10 TIME 14:25:18 *
*
*****
*
* U.S. ARMY CORPS OF ENGINEERS *
*   HYDROLOGIC ENGINEERING CENTER *
*   609 SECOND STREET *
*   DAVIS, CALIFORNIA 95616 *
*   (916) 756-1104 *
*
*****

```

520

```

*****
*
* ..... *
* : *
* : EFFECT OF SPATIAL AND TEMPORAL VARIABILITY : *
* : OF ANTECEDENT MOISTURE CONTENT ON : *
* : MODEL-GENERATED RUNOFF : *
* : FROM AN ARID WATERSHED : *
* : : *
* ..... *
* : RETURN PERIOD _ _ 100-YEAR : *
* : DISTRIBUTION _ _ _ 6-HOUR SDN 5 : *
* : FILENAME _ _ _ _ 0_day_Keffx4.h1 : *
* : DATE _ _ _ _ 08/9/10 : *
* : MODELED BY _ _ _ _ WJM : *
* ..... *

```

```

*****
* :                               : *
* : 1. Total watershed area is 88 sq. mi.           : *
* : 2. DARF is 0.62 for area                        : *
* : 3. 500 Year Precip. Value is 3.02 in.          : *
* : 4. 500 Year DARF value 0.62                   : *
* : 5. 100 Year DARF value 0.44                    : *
* : 6. 50 Year DARF value 0.38                     : *
* : 7. 25 Year DARF value 0.32                     : *
* : 8. 10 Year DARF Value 0.26                     : *
* : 9. 2 Year DARF Value 0.15                      : *
* :10. USBR Lag time                               : *
* :.....: *
*****

```

521

```

32 IO  OUTPUT CONTROL VARIABLES
      IPRNT    5 PRINT CONTROL
      IPLOT    0 PLOT CONTROL
      QSCAL    0. HYDROGRAPH PLOT SCALE

IT     HYDROGRAPH TIME DATA
      NMIN     5 MINUTES IN COMPUTATION INTERVAL
      IDATE    1 00 0 STARTING DATE
      ITIME    0000 STARTING TIME
      NQ       200 NUMBER OF HYDROGRAPH ORDINATES
      NDDATE   1 0 ENDING DATE
      NDTIME   1635 ENDING TIME
      ICENT    19 CENTURY MARK

```

```

COMPUTATION INTERVAL .08 HOURS
TOTAL TIME BASE 16.58 HOURS

```

```

ENGLISH UNITS
DRAINAGE AREA    SQUARE MILES
PRECIPITATION DEPTH INCHES
LENGTH, ELEVATION FEET

```

FLOW CUBIC FEET PER SECOND
STORAGE VOLUME ACRE-FEET
SURFACE AREA ACRES
TEMPERATURE DEGREES FAHRENHEIT

JP MULTI-PLAN OPTION
NPLAN 1 NUMBER OF PLANS

JR MULTI-RATIO OPTION
RATIOS OF PRECIPITATION
.62 .44 .38 .32 .26

522

* *
68 KK * CRfan *
* *

70 KO OUTPUT CONTROL VARIABLES
IPRNT 2 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE

71 HC HYDROGRAPH COMBINATION
ICOMP 3 NUMBER OF HYDROGRAPHS TO COMBINE

**

HYDROGRAPH AT STATION CRfan
 SUM OF 3 HYDROGRAPHS
 PLAN 1, RATIO = .62

**

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	0000	1	0.	1	0410	51	6207.	1	0820	101	69.	1	1230	151	0.				
1	0005	2	0.	1	0415	52	6245.	1	0825	102	62.	1	1235	152	0.				
1	0010	3	25.	1	0420	53	6214.	1	0830	103	55.	1	1240	153	0.				
1	0015	4	82.	1	0425	54	6143.	1	0835	104	48.	1	1245	154	0.				
1	0020	5	182.	1	0430	55	6041.	1	0840	105	42.	1	1250	155	0.				
1	0025	6	349.	1	0435	56	5966.	1	0845	106	37.	1	1255	156	0.				
1	0030	7	580.	1	0440	57	5949.	1	0850	107	33.	1	1300	157	0.				
1	0035	8	842.	1	0445	58	5958.	1	0855	108	28.	1	1305	158	0.				
1	0040	9	1111.	1	0450	59	5969.	1	0900	109	24.	1	1310	159	0.				
1	0045	10	1359.	1	0455	60	5973.	1	0905	110	21.	1	1315	160	0.				
1	0050	11	1553.	1	0500	61	5939.	1	0910	111	18.	1	1320	161	0.				
1	0055	12	1678.	1	0505	62	5848.	1	0915	112	15.	1	1325	162	0.				
1	0100	13	1744.	1	0510	63	5682.	1	0920	113	12.	1	1330	163	0.				
1	0105	14	1766.	1	0515	64	5432.	1	0925	114	10.	1	1335	164	0.				
1	0110	15	1744.	1	0520	65	5105.	1	0930	115	9.	1	1340	165	0.				
1	0115	16	1697.	1	0525	66	4737.	1	0935	116	7.	1	1345	166	0.				
1	0120	17	1653.	1	0530	67	4358.	1	0940	117	7.	1	1350	167	0.				
1	0125	18	1613.	1	0535	68	3980.	1	0945	118	6.	1	1355	168	0.				
1	0130	19	1584.	1	0540	69	3621.	1	0950	119	5.	1	1400	169	0.				
1	0135	20	1576.	1	0545	70	3299.	1	0955	120	5.	1	1405	170	0.				
1	0140	21	1568.	1	0550	71	3020.	1	1000	121	4.	1	1410	171	0.				
1	0145	22	1546.	1	0555	72	2786.	1	1005	122	4.	1	1415	172	0.				
1	0150	23	1507.	1	0600	73	2593.	1	1010	123	3.	1	1420	173	0.				
1	0155	24	1446.	1	0605	74	2421.	1	1015	124	3.	1	1425	174	0.				
1	0200	25	1363.	1	0610	75	2258.	1	1020	125	2.	1	1430	175	0.				
1	0205	26	1261.	1	0615	76	2094.	1	1025	126	2.	1	1435	176	0.				
1	0210	27	1149.	1	0620	77	1924.	1	1030	127	1.	1	1440	177	0.				

523

1	0215	28	1037.	*	1	0625	78	1747.	*	1	1035	128	1.	*	1	1445	178	0.
1	0220	29	928.	*	1	0630	79	1565.	*	1	1040	129	1.	*	1	1450	179	0.
1	0225	30	825.	*	1	0635	80	1384.	*	1	1045	130	0.	*	1	1455	180	0.
1	0230	31	730.	*	1	0640	81	1210.	*	1	1050	131	0.	*	1	1500	181	0.
1	0235	32	645.	*	1	0645	82	1050.	*	1	1055	132	0.	*	1	1505	182	0.
1	0240	33	569.	*	1	0650	83	905.	*	1	1100	133	0.	*	1	1510	183	0.
1	0245	34	503.	*	1	0655	84	779.	*	1	1105	134	0.	*	1	1515	184	0.
1	0250	35	453.	*	1	0700	85	670.	*	1	1110	135	0.	*	1	1520	185	0.
1	0255	36	422.	*	1	0705	86	576.	*	1	1115	136	0.	*	1	1525	186	0.
1	0300	37	423.	*	1	0710	87	495.	*	1	1120	137	0.	*	1	1530	187	0.
1	0305	38	468.	*	1	0715	88	427.	*	1	1125	138	0.	*	1	1535	188	0.
1	0310	39	581.	*	1	0720	89	368.	*	1	1130	139	0.	*	1	1540	189	0.
1	0315	40	775.	*	1	0725	90	317.	*	1	1135	140	0.	*	1	1545	190	0.
1	0320	41	1062.	*	1	0730	91	274.	*	1	1140	141	0.	*	1	1550	191	0.
1	0325	42	1469.	*	1	0735	92	237.	*	1	1145	142	0.	*	1	1555	192	0.
1	0330	43	2027.	*	1	0740	93	205.	*	1	1150	143	0.	*	1	1600	193	0.
1	0335	44	2689.	*	1	0745	94	178.	*	1	1155	144	0.	*	1	1605	194	0.
1	0340	45	3403.	*	1	0750	95	155.	*	1	1200	145	0.	*	1	1610	195	0.
1	0345	46	4139.	*	1	0755	96	135.	*	1	1205	146	0.	*	1	1615	196	0.
1	0350	47	4838.	*	1	0800	97	117.	*	1	1210	147	0.	*	1	1620	197	0.
1	0355	48	5398.	*	1	0805	98	102.	*	1	1215	148	0.	*	1	1625	198	0.
1	0400	49	5792.	*	1	0810	99	90.	*	1	1220	149	0.	*	1	1630	199	0.
1	0405	50	6056.	*	1	0815	100	79.	*	1	1225	150	0.	*	1	1635	200	0.
			*			*		*			*							

**

+ (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	16.58-HR
+ 6245.	4.25	2842.	1083.	1083.	1083.
	(INCHES)	.808	.851	.851	.851
	(AC-FT)	1409.	1485.	1485.	1485.

CUMULATIVE AREA = 32.69 SQ MI

**

HYDROGRAPH AT STATION CRfan
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .44

**

525

		*		*		*		*		*		*		*		*		*		*
DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	
1	0000	1	0.	* 1	0410	51	3663.	* 1	0820	101	36.	* 1	1230	151	0.					
1	0005	2	0.	* 1	0415	52	3678.	* 1	0825	102	32.	* 1	1235	152	0.					
1	0010	3	12.	* 1	0420	53	3653.	* 1	0830	103	28.	* 1	1240	153	0.					
1	0015	4	39.	* 1	0425	54	3605.	* 1	0835	104	25.	* 1	1245	154	0.					
1	0020	5	87.	* 1	0430	55	3537.	* 1	0840	105	22.	* 1	1250	155	0.					
1	0025	6	169.	* 1	0435	56	3490.	* 1	0845	106	19.	* 1	1255	156	0.					
1	0030	7	284.	* 1	0440	57	3478.	* 1	0850	107	17.	* 1	1300	157	0.					
1	0035	8	417.	* 1	0445	58	3480.	* 1	0855	108	14.	* 1	1305	158	0.					
1	0040	9	555.	* 1	0450	59	3478.	* 1	0900	109	12.	* 1	1310	159	0.					
1	0045	10	685.	* 1	0455	60	3467.	* 1	0905	110	11.	* 1	1315	160	0.					
1	0050	11	787.	* 1	0500	61	3427.	* 1	0910	111	9.	* 1	1320	161	0.					
1	0055	12	853.	* 1	0505	62	3352.	* 1	0915	112	7.	* 1	1325	162	0.					
1	0100	13	888.	* 1	0510	63	3232.	* 1	0920	113	6.	* 1	1330	163	0.					
1	0105	14	900.	* 1	0515	64	3063.	* 1	0925	114	5.	* 1	1335	164	0.					
1	0110	15	887.	* 1	0520	65	2853.	* 1	0930	115	4.	* 1	1340	165	0.					
1	0115	16	862.	* 1	0525	66	2624.	* 1	0935	116	3.	* 1	1345	166	0.					
1	0120	17	838.	* 1	0530	67	2393.	* 1	0940	117	3.	* 1	1350	167	0.					
1	0125	18	815.	* 1	0535	68	2166.	* 1	0945	118	3.	* 1	1355	168	0.					
1	0130	19	798.	* 1	0540	69	1953.	* 1	0950	119	2.	* 1	1400	169	0.					
1	0135	20	793.	* 1	0545	70	1764.	* 1	0955	120	2.	* 1	1405	170	0.					
1	0140	21	789.	* 1	0550	71	1600.	* 1	1000	121	2.	* 1	1410	171	0.					

1	0145	22	780.	*	1	0555	72	1463.	*	1	1005	122	2.	*	1	1415	172	0.
1	0150	23	763.	*	1	0600	73	1352.	*	1	1010	123	1.	*	1	1420	173	0.
1	0155	24	732.	*	1	0605	74	1255.	*	1	1015	124	1.	*	1	1425	174	0.
1	0200	25	688.	*	1	0610	75	1166.	*	1	1020	125	1.	*	1	1430	175	0.
1	0205	26	634.	*	1	0615	76	1079.	*	1	1025	126	1.	*	1	1435	176	0.
1	0210	27	572.	*	1	0620	77	990.	*	1	1030	127	1.	*	1	1440	177	0.
1	0215	28	507.	*	1	0625	78	899.	*	1	1035	128	0.	*	1	1445	178	0.
1	0220	29	444.	*	1	0630	79	806.	*	1	1040	129	0.	*	1	1450	179	0.
1	0225	30	385.	*	1	0635	80	713.	*	1	1045	130	0.	*	1	1455	180	0.
1	0230	31	333.	*	1	0640	81	623.	*	1	1050	131	0.	*	1	1500	181	0.
1	0235	32	287.	*	1	0645	82	541.	*	1	1055	132	0.	*	1	1505	182	0.
1	0240	33	247.	*	1	0650	83	466.	*	1	1100	133	0.	*	1	1510	183	0.
1	0245	34	213.	*	1	0655	84	401.	*	1	1105	134	0.	*	1	1515	184	0.
1	0250	35	184.	*	1	0700	85	344.	*	1	1110	135	0.	*	1	1520	185	0.
1	0255	36	163.	*	1	0705	86	296.	*	1	1115	136	0.	*	1	1525	186	0.
1	0300	37	155.	*	1	0710	87	255.	*	1	1120	137	0.	*	1	1530	187	0.
1	0305	38	164.	*	1	0715	88	219.	*	1	1125	138	0.	*	1	1535	188	0.
1	0310	39	207.	*	1	0720	89	189.	*	1	1130	139	0.	*	1	1540	189	0.
1	0315	40	297.	*	1	0725	90	163.	*	1	1135	140	0.	*	1	1545	190	0.
1	0320	41	445.	*	1	0730	91	140.	*	1	1140	141	0.	*	1	1550	191	0.
1	0325	42	674.	*	1	0735	92	121.	*	1	1145	142	0.	*	1	1555	192	0.
1	0330	43	1008.	*	1	0740	93	105.	*	1	1150	143	0.	*	1	1600	193	0.
1	0335	44	1417.	*	1	0745	94	91.	*	1	1155	144	0.	*	1	1605	194	0.
1	0340	45	1869.	*	1	0750	95	79.	*	1	1200	145	0.	*	1	1610	195	0.
1	0345	46	2343.	*	1	0755	96	69.	*	1	1205	146	0.	*	1	1615	196	0.
1	0350	47	2797.	*	1	0800	97	60.	*	1	1210	147	0.	*	1	1620	197	0.
1	0355	48	3161.	*	1	0805	98	52.	*	1	1215	148	0.	*	1	1625	198	0.
1	0400	49	3413.	*	1	0810	99	46.	*	1	1220	149	0.	*	1	1630	199	0.
1	0405	50	3576.	*	1	0815	100	40.	*	1	1225	150	0.	*	1	1635	200	0.

**

PEAK FLOW TIME MAXIMUM AVERAGE FLOW
+ (CFS) (HR) 6-HR 24-HR 72-HR 16.58-HR

(CFS)
 + 3678. 4.25 1564. 594. 594. 594.
 (INCHES) .445 .467 .467 .467
 (AC-FT) 776. 814. 814. 814.

CUMULATIVE AREA = 32.69 SQ MI

 **

HYDROGRAPH AT STATION CRfan
 SUM OF 3 HYDROGRAPHS
 PLAN 1, RATIO = .38

 **

527

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	0000	1	0.	* 1	0410	51	2863.	* 1	0820	101	25.	* 1	1230	151	0.				
1	0005	2	0.	* 1	0415	52	2869.	* 1	0825	102	22.	* 1	1235	152	0.				
1	0010	3	8.	* 1	0420	53	2844.	* 1	0830	103	20.	* 1	1240	153	0.				
1	0015	4	25.	* 1	0425	54	2802.	* 1	0835	104	17.	* 1	1245	154	0.				
1	0020	5	57.	* 1	0430	55	2745.	* 1	0840	105	15.	* 1	1250	155	0.				
1	0025	6	113.	* 1	0435	56	2705.	* 1	0845	106	13.	* 1	1255	156	0.				
1	0030	7	191.	* 1	0440	57	2695.	* 1	0850	107	12.	* 1	1300	157	0.				
1	0035	8	282.	* 1	0445	58	2695.	* 1	0855	108	10.	* 1	1305	158	0.				
1	0040	9	378.	* 1	0450	59	2689.	* 1	0900	109	9.	* 1	1310	159	0.				
1	0045	10	469.	* 1	0455	60	2673.	* 1	0905	110	7.	* 1	1315	160	0.				
1	0050	11	541.	* 1	0500	61	2632.	* 1	0910	111	6.	* 1	1320	161	0.				
1	0055	12	588.	* 1	0505	62	2560.	* 1	0915	112	5.	* 1	1325	162	0.				
1	0100	13	612.	* 1	0510	63	2454.	* 1	0920	113	4.	* 1	1330	163	0.				
1	0105	14	620.	* 1	0515	64	2311.	* 1	0925	114	3.	* 1	1335	164	0.				
1	0110	15	611.	* 1	0520	65	2138.	* 1	0930	115	3.	* 1	1340	165	0.				

1	0115	16	593.	*	1	0525	66	1952.	*	1	0935	116	2.	*	1	1345	166	0.
1	0120	17	576.	*	1	0530	67	1769.	*	1	0940	117	2.	*	1	1350	167	0.
1	0125	18	558.	*	1	0535	68	1591.	*	1	0945	118	2.	*	1	1355	168	0.
1	0130	19	545.	*	1	0540	69	1426.	*	1	0950	119	1.	*	1	1400	169	0.
1	0135	20	542.	*	1	0545	70	1280.	*	1	0955	120	1.	*	1	1405	170	0.
1	0140	21	540.	*	1	0550	71	1153.	*	1	1000	121	1.	*	1	1410	171	0.
1	0145	22	535.	*	1	0555	72	1048.	*	1	1005	122	1.	*	1	1415	172	0.
1	0150	23	524.	*	1	0600	73	963.	*	1	1010	123	1.	*	1	1420	173	0.
1	0155	24	505.	*	1	0605	74	890.	*	1	1015	124	1.	*	1	1425	174	0.
1	0200	25	476.	*	1	0610	75	823.	*	1	1020	125	1.	*	1	1430	175	0.
1	0205	26	440.	*	1	0615	76	759.	*	1	1025	126	1.	*	1	1435	176	0.
1	0210	27	398.	*	1	0620	77	695.	*	1	1030	127	0.	*	1	1440	177	0.
1	0215	28	354.	*	1	0625	78	630.	*	1	1035	128	0.	*	1	1445	178	0.
1	0220	29	310.	*	1	0630	79	565.	*	1	1040	129	0.	*	1	1450	179	0.
1	0225	30	269.	*	1	0635	80	499.	*	1	1045	130	0.	*	1	1455	180	0.
1	0230	31	233.	*	1	0640	81	437.	*	1	1050	131	0.	*	1	1500	181	0.
1	0235	32	201.	*	1	0645	82	378.	*	1	1055	132	0.	*	1	1505	182	0.
1	0240	33	173.	*	1	0650	83	326.	*	1	1100	133	0.	*	1	1510	183	0.
1	0245	34	149.	*	1	0655	84	280.	*	1	1105	134	0.	*	1	1515	184	0.
1	0250	35	129.	*	1	0700	85	241.	*	1	1110	135	0.	*	1	1520	185	0.
1	0255	36	113.	*	1	0705	86	207.	*	1	1115	136	0.	*	1	1525	186	0.
1	0300	37	106.	*	1	0710	87	178.	*	1	1120	137	0.	*	1	1530	187	0.
1	0305	38	109.	*	1	0715	88	153.	*	1	1125	138	0.	*	1	1535	188	0.
1	0310	39	136.	*	1	0720	89	131.	*	1	1130	139	0.	*	1	1540	189	0.
1	0315	40	198.	*	1	0725	90	113.	*	1	1135	140	0.	*	1	1545	190	0.
1	0320	41	305.	*	1	0730	91	98.	*	1	1140	141	0.	*	1	1550	191	0.
1	0325	42	476.	*	1	0735	92	84.	*	1	1145	142	0.	*	1	1555	192	0.
1	0330	43	735.	*	1	0740	93	73.	*	1	1150	143	0.	*	1	1600	193	0.
1	0335	44	1059.	*	1	0745	94	63.	*	1	1155	144	0.	*	1	1605	194	0.
1	0340	45	1421.	*	1	0750	95	55.	*	1	1200	145	0.	*	1	1610	195	0.
1	0345	46	1804.	*	1	0755	96	48.	*	1	1205	146	0.	*	1	1615	196	0.
1	0350	47	2172.	*	1	0800	97	42.	*	1	1210	147	0.	*	1	1620	197	0.
1	0355	48	2467.	*	1	0805	98	36.	*	1	1215	148	0.	*	1	1625	198	0.
1	0400	49	2670.	*	1	0810	99	32.	*	1	1220	149	0.	*	1	1630	199	0.
1	0405	50	2798.	*	1	0815	100	28.	*	1	1225	150	0.	*	1	1635	200	0.

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PEAK FLOW (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	16.58-HR
+ 2869.	4.25	1169.	442.	442.	442.
	(INCHES)	.333	.348	.348	.348
	(AC-FT)	580.	606.	606.	606.

CUMULATIVE AREA = 32.69 SQ MI

**

529

HYDROGRAPH AT STATION CRfan
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .32

**

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	0000	1	0.	0410	1	0000	1	0.	0410	1	0000	1	0.	0410
1	0005	2	0.	0415	1	0005	2	0.	0415	1	0005	2	0.	0415
1	0010	3	4.	0420	1	0010	3	4.	0420	1	0010	3	4.	0420
1	0015	4	14.	0425	1	0015	4	14.	0425	1	0015	4	14.	0425
1	0020	5	30.	0430	1	0020	5	30.	0430	1	0020	5	30.	0430
1	0025	6	61.	0435	1	0025	6	61.	0435	1	0025	6	61.	0435
1	0030	7	105.	0440	1	0030	7	105.	0440	1	0030	7	105.	0440
1	0035	8	156.	0445	1	0035	8	156.	0445	1	0035	8	156.	0445

1	0040	9	211.	*	1	0450	59	1935.	*	1	0900	109	5.	*	1	1310	159	0.
1	0045	10	266.	*	1	0455	60	1916.	*	1	0905	110	4.	*	1	1315	160	0.
1	0050	11	310.	*	1	0500	61	1875.	*	1	0910	111	4.	*	1	1320	161	0.
1	0055	12	338.	*	1	0505	62	1810.	*	1	0915	112	3.	*	1	1325	162	0.
1	0100	13	353.	*	1	0510	63	1718.	*	1	0920	113	2.	*	1	1330	163	0.
1	0105	14	358.	*	1	0515	64	1602.	*	1	0925	114	2.	*	1	1335	164	0.
1	0110	15	353.	*	1	0520	65	1466.	*	1	0930	115	1.	*	1	1340	165	0.
1	0115	16	342.	*	1	0525	66	1324.	*	1	0935	116	1.	*	1	1345	166	0.
1	0120	17	332.	*	1	0530	67	1187.	*	1	0940	117	1.	*	1	1350	167	0.
1	0125	18	320.	*	1	0535	68	1058.	*	1	0945	118	1.	*	1	1355	168	0.
1	0130	19	311.	*	1	0540	69	938.	*	1	0950	119	1.	*	1	1400	169	0.
1	0135	20	309.	*	1	0545	70	834.	*	1	0955	120	1.	*	1	1405	170	0.
1	0140	21	309.	*	1	0550	71	744.	*	1	1000	121	1.	*	1	1410	171	0.
1	0145	22	307.	*	1	0555	72	669.	*	1	1005	122	1.	*	1	1415	172	0.
1	0150	23	302.	*	1	0600	73	608.	*	1	1010	123	0.	*	1	1420	173	0.
1	0155	24	292.	*	1	0605	74	555.	*	1	1015	124	0.	*	1	1425	174	0.
1	0200	25	277.	*	1	0610	75	509.	*	1	1020	125	0.	*	1	1430	175	0.
1	0205	26	258.	*	1	0615	76	466.	*	1	1025	126	0.	*	1	1435	176	0.
1	0210	27	235.	*	1	0620	77	424.	*	1	1030	127	0.	*	1	1440	177	0.
1	0215	28	210.	*	1	0625	78	383.	*	1	1035	128	0.	*	1	1445	178	0.
1	0220	29	184.	*	1	0630	79	342.	*	1	1040	129	0.	*	1	1450	179	0.
1	0225	30	161.	*	1	0635	80	302.	*	1	1045	130	0.	*	1	1455	180	0.
1	0230	31	140.	*	1	0640	81	264.	*	1	1050	131	0.	*	1	1500	181	0.
1	0235	32	121.	*	1	0645	82	229.	*	1	1055	132	0.	*	1	1505	182	0.
1	0240	33	104.	*	1	0650	83	197.	*	1	1100	133	0.	*	1	1510	183	0.
1	0245	34	90.	*	1	0655	84	170.	*	1	1105	134	0.	*	1	1515	184	0.
1	0250	35	78.	*	1	0700	85	146.	*	1	1110	135	0.	*	1	1520	185	0.
1	0255	36	68.	*	1	0705	86	125.	*	1	1115	136	0.	*	1	1525	186	0.
1	0300	37	62.	*	1	0710	87	108.	*	1	1120	137	0.	*	1	1530	187	0.
1	0305	38	61.	*	1	0715	88	93.	*	1	1125	138	0.	*	1	1535	188	0.
1	0310	39	75.	*	1	0720	89	80.	*	1	1130	139	0.	*	1	1540	189	0.
1	0315	40	111.	*	1	0725	90	69.	*	1	1135	140	0.	*	1	1545	190	0.
1	0320	41	178.	*	1	0730	91	59.	*	1	1140	141	0.	*	1	1550	191	0.
1	0325	42	294.	*	1	0735	92	51.	*	1	1145	142	0.	*	1	1555	192	0.
1	0330	43	481.	*	1	0740	93	44.	*	1	1150	143	0.	*	1	1600	193	0.
1	0335	44	720.	*	1	0745	94	38.	*	1	1155	144	0.	*	1	1605	194	0.
1	0340	45	994.	*	1	0750	95	33.	*	1	1200	145	0.	*	1	1610	195	0.

```

1 0345 46 1287. * 1 0755 96 29. * 1 1205 146 0. * 1 1615 196 0.
1 0350 47 1570. * 1 0800 97 25. * 1 1210 147 0. * 1 1620 197 0.
1 0355 48 1797. * 1 0805 98 22. * 1 1215 148 0. * 1 1625 198 0.
1 0400 49 1951. * 1 0810 99 19. * 1 1220 149 0. * 1 1630 199 0.
1 0405 50 2045. * 1 0815 100 17. * 1 1225 150 0. * 1 1635 200 0.
      *                *                *

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PEAK FLOW      TIME          MAXIMUM AVERAGE FLOW
      6-HR      24-HR      72-HR      16.58-HR
+ (CFS)  (HR)
+ 2088.  4.17      796.    300.    300.    300.
      (INCHES) .226    .235    .235    .235
      (AC-FT) 395.    410.    410.    410.

      CUMULATIVE AREA = 32.69 SQ MI

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531

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HYDROGRAPH AT STATION CRfan
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .26

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```

      *                *                *
DA MON HRMN ORD  FLOW * DA MON HRMN ORD  FLOW * DA MON HRMN ORD  FLOW * DA MON HRMN ORD  FLOW
      *                *                *
1 0000 1 0. * 1 0410 51 1398. * 1 0820 101 7. * 1 1230 151 0.
1 0005 2 0. * 1 0415 52 1392. * 1 0825 102 6. * 1 1235 152 0.

```

1	0010	3	2.	*	1	0420	53	1371.	*	1	0830	103	5.	*	1	1240	153	0.
1	0015	4	5.	*	1	0425	54	1342.	*	1	0835	104	5.	*	1	1245	154	0.
1	0020	5	11.	*	1	0430	55	1308.	*	1	0840	105	4.	*	1	1250	155	0.
1	0025	6	23.	*	1	0435	56	1285.	*	1	0845	106	4.	*	1	1255	156	0.
1	0030	7	41.	*	1	0440	57	1280.	*	1	0850	107	3.	*	1	1300	157	0.
1	0035	8	62.	*	1	0445	58	1280.	*	1	0855	108	3.	*	1	1305	158	0.
1	0040	9	86.	*	1	0450	59	1273.	*	1	0900	109	2.	*	1	1310	159	0.
1	0045	10	110.	*	1	0455	60	1255.	*	1	0905	110	2.	*	1	1315	160	0.
1	0050	11	129.	*	1	0500	61	1217.	*	1	0910	111	2.	*	1	1320	161	0.
1	0055	12	141.	*	1	0505	62	1160.	*	1	0915	112	1.	*	1	1325	162	0.
1	0100	13	147.	*	1	0510	63	1084.	*	1	0920	113	1.	*	1	1330	163	0.
1	0105	14	148.	*	1	0515	64	993.	*	1	0925	114	0.	*	1	1335	164	0.
1	0110	15	145.	*	1	0520	65	891.	*	1	0930	115	0.	*	1	1340	165	0.
1	0115	16	139.	*	1	0525	66	788.	*	1	0935	116	0.	*	1	1345	166	0.
1	0120	17	133.	*	1	0530	67	691.	*	1	0940	117	0.	*	1	1350	167	0.
1	0125	18	127.	*	1	0535	68	603.	*	1	0945	118	0.	*	1	1355	168	0.
1	0130	19	122.	*	1	0540	69	524.	*	1	0950	119	0.	*	1	1400	169	0.
1	0135	20	121.	*	1	0545	70	456.	*	1	0955	120	0.	*	1	1405	170	0.
1	0140	21	121.	*	1	0550	71	398.	*	1	1000	121	0.	*	1	1410	171	0.
1	0145	22	121.	*	1	0555	72	350.	*	1	1005	122	0.	*	1	1415	172	0.
1	0150	23	121.	*	1	0600	73	310.	*	1	1010	123	0.	*	1	1420	173	0.
1	0155	24	118.	*	1	0605	74	277.	*	1	1015	124	0.	*	1	1425	174	0.
1	0200	25	114.	*	1	0610	75	248.	*	1	1020	125	0.	*	1	1430	175	0.
1	0205	26	107.	*	1	0615	76	222.	*	1	1025	126	0.	*	1	1435	176	0.
1	0210	27	99.	*	1	0620	77	198.	*	1	1030	127	0.	*	1	1440	177	0.
1	0215	28	89.	*	1	0625	78	176.	*	1	1035	128	0.	*	1	1445	178	0.
1	0220	29	79.	*	1	0630	79	156.	*	1	1040	129	0.	*	1	1450	179	0.
1	0225	30	70.	*	1	0635	80	136.	*	1	1045	130	0.	*	1	1455	180	0.
1	0230	31	61.	*	1	0640	81	119.	*	1	1050	131	0.	*	1	1500	181	0.
1	0235	32	53.	*	1	0645	82	103.	*	1	1055	132	0.	*	1	1505	182	0.
1	0240	33	46.	*	1	0650	83	88.	*	1	1100	133	0.	*	1	1510	183	0.
1	0245	34	40.	*	1	0655	84	75.	*	1	1105	134	0.	*	1	1515	184	0.
1	0250	35	35.	*	1	0700	85	65.	*	1	1110	135	0.	*	1	1520	185	0.
1	0255	36	31.	*	1	0705	86	56.	*	1	1115	136	0.	*	1	1525	186	0.
1	0300	37	28.	*	1	0710	87	48.	*	1	1120	137	0.	*	1	1530	187	0.
1	0305	38	26.	*	1	0715	88	41.	*	1	1125	138	0.	*	1	1535	188	0.
1	0310	39	33.	*	1	0720	89	35.	*	1	1130	139	0.	*	1	1540	189	0.

1	0315	40	52.	*	1	0725	90	30.	*	1	1135	140	0.	*	1	1545	190	0.
1	0320	41	89.	*	1	0730	91	26.	*	1	1140	141	0.	*	1	1550	191	0.
1	0325	42	160.	*	1	0735	92	23.	*	1	1145	142	0.	*	1	1555	192	0.
1	0330	43	281.	*	1	0740	93	20.	*	1	1150	143	0.	*	1	1600	193	0.
1	0335	44	442.	*	1	0745	94	17.	*	1	1155	144	0.	*	1	1605	194	0.
1	0340	45	630.	*	1	0750	95	15.	*	1	1200	145	0.	*	1	1610	195	0.
1	0345	46	836.	*	1	0755	96	13.	*	1	1205	146	0.	*	1	1615	196	0.
1	0350	47	1037.	*	1	0800	97	11.	*	1	1210	147	0.	*	1	1620	197	0.
1	0355	48	1198.	*	1	0805	98	10.	*	1	1215	148	0.	*	1	1625	198	0.
1	0400	49	1307.	*	1	0810	99	9.	*	1	1220	149	0.	*	1	1630	199	0.
1	0405	50	1372.	*	1	0815	100	8.	*	1	1225	150	0.	*	1	1635	200	0.

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533

PEAK FLOW (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	16.58-HR
+ 1398.	4.17	478.	178.	178.	178.
	(INCHES)	.136	.140	.140	.140
	(AC-FT)	237.	244.	244.	244.

CUMULATIVE AREA = 32.69 SQ MI

*
95 KK * CFplain *
*

96 KO OUTPUT CONTROL VARIABLES
 IPRNT 2 PRINT CONTROL
 IPLOT 0 PLOT CONTROL
 QSCAL 0. HYDROGRAPH PLOT SCALE

97 HC HYDROGRAPH COMBINATION
 ICOMP 3 NUMBER OF HYDROGRAPHS TO COMBINE

 **

HYDROGRAPH AT STATION CFplain
 SUM OF 3 HYDROGRAPHS
 PLAN 1, RATIO = .62

 **

*				*				*				*							
DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
*				*				*				*							
1	0000	1	0.	* 1	0410	51	6848.	* 1	0820	101	374.	* 1	1230	151	0.				
1	0005	2	0.	* 1	0415	52	7321.	* 1	0825	102	323.	* 1	1235	152	0.				
1	0010	3	7.	* 1	0420	53	7644.	* 1	0830	103	279.	* 1	1240	153	0.				
1	0015	4	23.	* 1	0425	54	7839.	* 1	0835	104	241.	* 1	1245	154	0.				
1	0020	5	53.	* 1	0430	55	7936.	* 1	0840	105	209.	* 1	1250	155	0.				
1	0025	6	107.	* 1	0435	56	7972.	* 1	0845	106	181.	* 1	1255	156	0.				
1	0030	7	195.	* 1	0440	57	7984.	* 1	0850	107	157.	* 1	1300	157	0.				
1	0035	8	328.	* 1	0445	58	7984.	* 1	0855	108	137.	* 1	1305	158	0.				
1	0040	9	520.	* 1	0450	59	7980.	* 1	0900	109	119.	* 1	1310	159	0.				
1	0045	10	768.	* 1	0455	60	7981.	* 1	0905	110	104.	* 1	1315	160	0.				
1	0050	11	1056.	* 1	0500	61	8011.	* 1	0910	111	91.	* 1	1320	161	0.				
1	0055	12	1355.	* 1	0505	62	8076.	* 1	0915	112	79.	* 1	1325	162	0.				

534

1	0100	13	1625.	*	1	0510	63	8163.	*	1	0920	113	69.	*	1	1330	163	0.
1	0105	14	1841.	*	1	0515	64	8254.	*	1	0925	114	61.	*	1	1335	164	0.
1	0110	15	1992.	*	1	0520	65	8329.	*	1	0930	115	53.	*	1	1340	165	0.
1	0115	16	2078.	*	1	0525	66	8362.	*	1	0935	116	47.	*	1	1345	166	0.
1	0120	17	2120.	*	1	0530	67	8333.	*	1	0940	117	41.	*	1	1350	167	0.
1	0125	18	2134.	*	1	0535	68	8232.	*	1	0945	118	36.	*	1	1355	168	0.
1	0130	19	2135.	*	1	0540	69	8064.	*	1	0950	119	31.	*	1	1400	169	0.
1	0135	20	2132.	*	1	0545	70	7838.	*	1	0955	120	27.	*	1	1405	170	0.
1	0140	21	2127.	*	1	0550	71	7564.	*	1	1000	121	23.	*	1	1410	171	0.
1	0145	22	2118.	*	1	0555	72	7249.	*	1	1005	122	20.	*	1	1415	172	0.
1	0150	23	2102.	*	1	0600	73	6902.	*	1	1010	123	17.	*	1	1420	173	0.
1	0155	24	2077.	*	1	0605	74	6529.	*	1	1015	124	15.	*	1	1425	174	0.
1	0200	25	2044.	*	1	0610	75	6136.	*	1	1020	125	12.	*	1	1430	175	0.
1	0205	26	2005.	*	1	0615	76	5727.	*	1	1025	126	11.	*	1	1435	176	0.
1	0210	27	1959.	*	1	0620	77	5314.	*	1	1030	127	9.	*	1	1440	177	0.
1	0215	28	1912.	*	1	0625	78	4906.	*	1	1035	128	8.	*	1	1445	178	0.
1	0220	29	1870.	*	1	0630	79	4511.	*	1	1040	129	7.	*	1	1450	179	0.
1	0225	30	1831.	*	1	0635	80	4136.	*	1	1045	130	6.	*	1	1455	180	0.
1	0230	31	1796.	*	1	0640	81	3788.	*	1	1050	131	5.	*	1	1500	181	0.
1	0235	32	1756.	*	1	0645	82	3470.	*	1	1055	132	4.	*	1	1505	182	0.
1	0240	33	1710.	*	1	0650	83	3182.	*	1	1100	133	4.	*	1	1510	183	0.
1	0245	34	1651.	*	1	0655	84	2922.	*	1	1105	134	3.	*	1	1515	184	0.
1	0250	35	1578.	*	1	0700	85	2686.	*	1	1110	135	3.	*	1	1520	185	0.
1	0255	36	1494.	*	1	0705	86	2468.	*	1	1115	136	2.	*	1	1525	186	0.
1	0300	37	1405.	*	1	0710	87	2263.	*	1	1120	137	2.	*	1	1530	187	0.
1	0305	38	1320.	*	1	0715	88	2066.	*	1	1125	138	2.	*	1	1535	188	0.
1	0310	39	1257.	*	1	0720	89	1876.	*	1	1130	139	1.	*	1	1540	189	0.
1	0315	40	1233.	*	1	0725	90	1691.	*	1	1135	140	1.	*	1	1545	190	0.
1	0320	41	1267.	*	1	0730	91	1513.	*	1	1140	141	1.	*	1	1550	191	0.
1	0325	42	1388.	*	1	0735	92	1343.	*	1	1145	142	0.	*	1	1555	192	0.
1	0330	43	1625.	*	1	0740	93	1183.	*	1	1150	143	0.	*	1	1600	193	0.
1	0335	44	1985.	*	1	0745	94	1036.	*	1	1155	144	0.	*	1	1605	194	0.
1	0340	45	2469.	*	1	0750	95	903.	*	1	1200	145	0.	*	1	1610	195	0.
1	0345	46	3080.	*	1	0755	96	783.	*	1	1205	146	0.	*	1	1615	196	0.
1	0350	47	3812.	*	1	0800	97	677.	*	1	1210	147	0.	*	1	1620	197	0.
1	0355	48	4631.	*	1	0805	98	584.	*	1	1215	148	0.	*	1	1625	198	0.
1	0400	49	5462.	*	1	0810	99	503.	*	1	1220	149	0.	*	1	1630	199	0.

1 0405 50 6220. * 1 0815 100 433. * 1 1225 150 0. * 1 1635 200 0.
 * * * * *

 **

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	16.58-HR
+ (CFS)	(HR)				
	(CFS)				
+ 8362.	5.42	4398.	1728.	1728.	1728.
	(INCHES)	.776	.843	.843	.843
	(AC-FT)	2181.	2369.	2369.	2369.

CUMULATIVE AREA = 52.71 SQ MI

536

 **

HYDROGRAPH AT STATION CFplain
 SUM OF 3 HYDROGRAPHS
 PLAN 1, RATIO = .44

 **

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	0000	1	0.	0410 51	1	0820	101	191.	1	1230	151	0.		
1	0005	2	0.	0415 52	1	0825	102	165.	1	1235	152	0.		
1	0010	3	3.	0420 53	1	0830	103	142.	1	1240	153	0.		
1	0015	4	10.	0425 54	1	0835	104	123.	1	1245	154	0.		
1	0020	5	22.	0430 55	1	0840	105	107.	1	1250	155	0.		
1	0025	6	47.	0435 56	1	0845	106	92.	1	1255	156	0.		

1	0030	7	87.	*	1	0440	57	4634.	*	1	0850	107	80.	*	1	1300	157	0.
1	0035	8	148.	*	1	0445	58	4632.	*	1	0855	108	70.	*	1	1305	158	0.
1	0040	9	237.	*	1	0450	59	4624.	*	1	0900	109	61.	*	1	1310	159	0.
1	0045	10	355.	*	1	0455	60	4613.	*	1	0905	110	53.	*	1	1315	160	0.
1	0050	11	496.	*	1	0500	61	4611.	*	1	0910	111	46.	*	1	1320	161	0.
1	0055	12	646.	*	1	0505	62	4625.	*	1	0915	112	40.	*	1	1325	162	0.
1	0100	13	785.	*	1	0510	63	4648.	*	1	0920	113	35.	*	1	1330	163	0.
1	0105	14	900.	*	1	0515	64	4673.	*	1	0925	114	31.	*	1	1335	164	0.
1	0110	15	982.	*	1	0520	65	4693.	*	1	0930	115	27.	*	1	1340	165	0.
1	0115	16	1032.	*	1	0525	66	4696.	*	1	0935	116	24.	*	1	1345	166	0.
1	0120	17	1058.	*	1	0530	67	4671.	*	1	0940	117	21.	*	1	1350	167	0.
1	0125	18	1069.	*	1	0535	68	4611.	*	1	0945	118	18.	*	1	1355	168	0.
1	0130	19	1072.	*	1	0540	69	4515.	*	1	0950	119	16.	*	1	1400	169	0.
1	0135	20	1073.	*	1	0545	70	4390.	*	1	0955	120	14.	*	1	1405	170	0.
1	0140	21	1073.	*	1	0550	71	4236.	*	1	1000	121	12.	*	1	1410	171	0.
1	0145	22	1070.	*	1	0555	72	4057.	*	1	1005	122	10.	*	1	1415	172	0.
1	0150	23	1063.	*	1	0600	73	3858.	*	1	1010	123	9.	*	1	1420	173	0.
1	0155	24	1051.	*	1	0605	74	3641.	*	1	1015	124	7.	*	1	1425	174	0.
1	0200	25	1034.	*	1	0610	75	3409.	*	1	1020	125	6.	*	1	1430	175	0.
1	0205	26	1012.	*	1	0615	76	3168.	*	1	1025	126	5.	*	1	1435	176	0.
1	0210	27	985.	*	1	0620	77	2925.	*	1	1030	127	4.	*	1	1440	177	0.
1	0215	28	957.	*	1	0625	78	2684.	*	1	1035	128	4.	*	1	1445	178	0.
1	0220	29	930.	*	1	0630	79	2452.	*	1	1040	129	3.	*	1	1450	179	0.
1	0225	30	902.	*	1	0635	80	2233.	*	1	1045	130	3.	*	1	1455	180	0.
1	0230	31	875.	*	1	0640	81	2030.	*	1	1050	131	2.	*	1	1500	181	0.
1	0235	32	848.	*	1	0645	82	1846.	*	1	1055	132	2.	*	1	1505	182	0.
1	0240	33	819.	*	1	0650	83	1682.	*	1	1100	133	2.	*	1	1510	183	0.
1	0245	34	786.	*	1	0655	84	1535.	*	1	1105	134	2.	*	1	1515	184	0.
1	0250	35	747.	*	1	0700	85	1403.	*	1	1110	135	1.	*	1	1520	185	0.
1	0255	36	703.	*	1	0705	86	1283.	*	1	1115	136	1.	*	1	1525	186	0.
1	0300	37	656.	*	1	0710	87	1172.	*	1	1120	137	1.	*	1	1530	187	0.
1	0305	38	609.	*	1	0715	88	1067.	*	1	1125	138	1.	*	1	1535	188	0.
1	0310	39	570.	*	1	0720	89	967.	*	1	1130	139	1.	*	1	1540	189	0.
1	0315	40	547.	*	1	0725	90	871.	*	1	1135	140	0.	*	1	1545	190	0.
1	0320	41	552.	*	1	0730	91	778.	*	1	1140	141	0.	*	1	1550	191	0.
1	0325	42	602.	*	1	0735	92	691.	*	1	1145	142	0.	*	1	1555	192	0.
1	0330	43	722.	*	1	0740	93	608.	*	1	1150	143	0.	*	1	1600	193	0.

1	0335	44	918.	*	1	0745	94	533.	*	1	1155	144	0.	*	1	1605	194	0.
1	0340	45	1196.	*	1	0750	95	464.	*	1	1200	145	0.	*	1	1610	195	0.
1	0345	46	1562.	*	1	0755	96	402.	*	1	1205	146	0.	*	1	1615	196	0.
1	0350	47	2013.	*	1	0800	97	347.	*	1	1210	147	0.	*	1	1620	197	0.
1	0355	48	2529.	*	1	0805	98	299.	*	1	1215	148	0.	*	1	1625	198	0.
1	0400	49	3060.	*	1	0810	99	258.	*	1	1220	149	0.	*	1	1630	199	0.
1	0405	50	3546.	*	1	0815	100	222.	*	1	1225	150	0.	*	1	1635	200	0.

**

PEAK FLOW + (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	16.58-HR
+ 4696.	5.42	2416.	943.	943.	943.
	(INCHES)	.426	.460	.460	.460
	(AC-FT)	1198.	1292.	1292.	1292.

CUMULATIVE AREA = 52.71 SQ MI

**

HYDROGRAPH AT STATION CFplain
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .38

**

*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*				
DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

1	0000	1	0.	*	1	0410	51	3062.	*	1	0820	101	133.	*	1	1230	151	0.
1	0005	2	0.	*	1	0415	52	3300.	*	1	0825	102	115.	*	1	1235	152	0.
1	0010	3	2.	*	1	0420	53	3456.	*	1	0830	103	99.	*	1	1240	153	0.
1	0015	4	6.	*	1	0425	54	3543.	*	1	0835	104	85.	*	1	1245	154	0.
1	0020	5	13.	*	1	0430	55	3580.	*	1	0840	105	74.	*	1	1250	155	0.
1	0025	6	28.	*	1	0435	56	3588.	*	1	0845	106	64.	*	1	1255	156	0.
1	0030	7	54.	*	1	0440	57	3588.	*	1	0850	107	56.	*	1	1300	157	0.
1	0035	8	93.	*	1	0445	58	3584.	*	1	0855	108	48.	*	1	1305	158	0.
1	0040	9	150.	*	1	0450	59	3574.	*	1	0900	109	42.	*	1	1310	159	0.
1	0045	10	227.	*	1	0455	60	3560.	*	1	0905	110	37.	*	1	1315	160	0.
1	0050	11	320.	*	1	0500	61	3549.	*	1	0910	111	32.	*	1	1320	161	0.
1	0055	12	423.	*	1	0505	62	3547.	*	1	0915	112	28.	*	1	1325	162	0.
1	0100	13	519.	*	1	0510	63	3550.	*	1	0920	113	25.	*	1	1330	163	0.
1	0105	14	601.	*	1	0515	64	3554.	*	1	0925	114	22.	*	1	1335	164	0.
1	0110	15	660.	*	1	0520	65	3554.	*	1	0930	115	19.	*	1	1340	165	0.
1	0115	16	698.	*	1	0525	66	3545.	*	1	0935	116	17.	*	1	1345	166	0.
1	0120	17	718.	*	1	0530	67	3517.	*	1	0940	117	15.	*	1	1350	167	0.
1	0125	18	728.	*	1	0535	68	3467.	*	1	0945	118	13.	*	1	1355	168	0.
1	0130	19	731.	*	1	0540	69	3393.	*	1	0950	119	11.	*	1	1400	169	0.
1	0135	20	733.	*	1	0545	70	3297.	*	1	0955	120	10.	*	1	1405	170	0.
1	0140	21	734.	*	1	0550	71	3181.	*	1	1000	121	8.	*	1	1410	171	0.
1	0145	22	733.	*	1	0555	72	3044.	*	1	1005	122	7.	*	1	1415	172	0.
1	0150	23	729.	*	1	0600	73	2891.	*	1	1010	123	6.	*	1	1420	173	0.
1	0155	24	721.	*	1	0605	74	2723.	*	1	1015	124	5.	*	1	1425	174	0.
1	0200	25	709.	*	1	0610	75	2543.	*	1	1020	125	4.	*	1	1430	175	0.
1	0205	26	694.	*	1	0615	76	2356.	*	1	1025	126	3.	*	1	1435	176	0.
1	0210	27	676.	*	1	0620	77	2166.	*	1	1030	127	3.	*	1	1440	177	0.
1	0215	28	657.	*	1	0625	78	1979.	*	1	1035	128	2.	*	1	1445	178	0.
1	0220	29	637.	*	1	0630	79	1800.	*	1	1040	129	2.	*	1	1450	179	0.
1	0225	30	618.	*	1	0635	80	1630.	*	1	1045	130	2.	*	1	1455	180	0.
1	0230	31	600.	*	1	0640	81	1475.	*	1	1050	131	1.	*	1	1500	181	0.
1	0235	32	582.	*	1	0645	82	1334.	*	1	1055	132	1.	*	1	1505	182	0.
1	0240	33	562.	*	1	0650	83	1209.	*	1	1100	133	1.	*	1	1510	183	0.
1	0245	34	540.	*	1	0655	84	1098.	*	1	1105	134	1.	*	1	1515	184	0.
1	0250	35	515.	*	1	0700	85	999.	*	1	1110	135	1.	*	1	1520	185	0.
1	0255	36	485.	*	1	0705	86	910.	*	1	1115	136	1.	*	1	1525	186	0.
1	0300	37	453.	*	1	0710	87	828.	*	1	1120	137	1.	*	1	1530	187	0.

1	0305	38	420.	*	1	0715	88	752.	*	1	1125	138	0.	*	1	1535	188	0.
1	0310	39	392.	*	1	0720	89	680.	*	1	1130	139	0.	*	1	1540	189	0.
1	0315	40	375.	*	1	0725	90	611.	*	1	1135	140	0.	*	1	1545	190	0.
1	0320	41	376.	*	1	0730	91	546.	*	1	1140	141	0.	*	1	1550	191	0.
1	0325	42	411.	*	1	0735	92	484.	*	1	1145	142	0.	*	1	1555	192	0.
1	0330	43	497.	*	1	0740	93	426.	*	1	1150	143	0.	*	1	1600	193	0.
1	0335	44	644.	*	1	0745	94	372.	*	1	1155	144	0.	*	1	1605	194	0.
1	0340	45	857.	*	1	0750	95	324.	*	1	1200	145	0.	*	1	1610	195	0.
1	0345	46	1141.	*	1	0755	96	281.	*	1	1205	146	0.	*	1	1615	196	0.
1	0350	47	1498.	*	1	0800	97	242.	*	1	1210	147	0.	*	1	1620	197	0.
1	0355	48	1911.	*	1	0805	98	208.	*	1	1215	148	0.	*	1	1625	198	0.
1	0400	49	2341.	*	1	0810	99	179.	*	1	1220	149	0.	*	1	1630	199	0.
1	0405	50	2736.	*	1	0815	100	154.	*	1	1225	150	0.	*	1	1635	200	0.

**

540	PEAK FLOW (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	16.58-HR
+	3588.	4.58	1804.	699.	699.	699.
		(INCHES)	.318	.341	.341	.341
		(AC-FT)	894.	959.	959.	959.

CUMULATIVE AREA = 52.71 SQ MI

**

HYDROGRAPH AT STATION CFplain
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .32

**

		*		*		*		*		*		*		*		*		*	
DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	0000	1	0.	* 1	0410	51	2215.	* 1	0820	101	80.	* 1	1230	151	0.				
1	0005	2	0.	* 1	0415	52	2396.	* 1	0825	102	69.	* 1	1235	152	0.				
1	0010	3	1.	* 1	0420	53	2509.	* 1	0830	103	60.	* 1	1240	153	0.				
1	0015	4	3.	* 1	0425	54	2569.	* 1	0835	104	52.	* 1	1245	154	0.				
1	0020	5	6.	* 1	0430	55	2591.	* 1	0840	105	45.	* 1	1250	155	0.				
1	0025	6	13.	* 1	0435	56	2591.	* 1	0845	106	39.	* 1	1255	156	0.				
1	0030	7	26.	* 1	0440	57	2588.	* 1	0850	107	34.	* 1	1300	157	0.				
1	0035	8	46.	* 1	0445	58	2583.	* 1	0855	108	29.	* 1	1305	158	0.				
1	0040	9	75.	* 1	0450	59	2574.	* 1	0900	109	26.	* 1	1310	159	0.				
1	0045	10	115.	* 1	0455	60	2560.	* 1	0905	110	22.	* 1	1315	160	0.				
1	0050	11	166.	* 1	0500	61	2545.	* 1	0910	111	20.	* 1	1320	161	0.				
1	0055	12	223.	* 1	0505	62	2533.	* 1	0915	112	17.	* 1	1325	162	0.				
1	0100	13	279.	* 1	0510	63	2519.	* 1	0920	113	15.	* 1	1330	163	0.				
1	0105	14	328.	* 1	0515	64	2504.	* 1	0925	114	13.	* 1	1335	164	0.				
1	0110	15	366.	* 1	0520	65	2487.	* 1	0930	115	12.	* 1	1340	165	0.				
1	0115	16	390.	* 1	0525	66	2465.	* 1	0935	116	10.	* 1	1345	166	0.				
1	0120	17	405.	* 1	0530	67	2435.	* 1	0940	117	9.	* 1	1350	167	0.				
1	0125	18	412.	* 1	0535	68	2394.	* 1	0945	118	8.	* 1	1355	168	0.				
1	0130	19	415.	* 1	0540	69	2339.	* 1	0950	119	7.	* 1	1400	169	0.				
1	0135	20	417.	* 1	0545	70	2272.	* 1	0955	120	6.	* 1	1405	170	0.				
1	0140	21	419.	* 1	0550	71	2190.	* 1	1000	121	5.	* 1	1410	171	0.				
1	0145	22	420.	* 1	0555	72	2094.	* 1	1005	122	4.	* 1	1415	172	0.				
1	0150	23	418.	* 1	0600	73	1985.	* 1	1010	123	3.	* 1	1420	173	0.				
1	0155	24	414.	* 1	0605	74	1864.	* 1	1015	124	3.	* 1	1425	174	0.				
1	0200	25	408.	* 1	0610	75	1734.	* 1	1020	125	2.	* 1	1430	175	0.				
1	0205	26	399.	* 1	0615	76	1598.	* 1	1025	126	2.	* 1	1435	176	0.				
1	0210	27	389.	* 1	0620	77	1460.	* 1	1030	127	2.	* 1	1440	177	0.				
1	0215	28	377.	* 1	0625	78	1325.	* 1	1035	128	1.	* 1	1445	178	0.				
1	0220	29	366.	* 1	0630	79	1196.	* 1	1040	129	1.	* 1	1450	179	0.				
1	0225	30	355.	* 1	0635	80	1074.	* 1	1045	130	1.	* 1	1455	180	0.				
1	0230	31	345.	* 1	0640	81	963.	* 1	1050	131	1.	* 1	1500	181	0.				

541

1	0235	32	335.	*	1	0645	82	864.	*	1	1055	132	1.	*	1	1505	182	0.
1	0240	33	324.	*	1	0650	83	776.	*	1	1100	133	1.	*	1	1510	183	0.
1	0245	34	313.	*	1	0655	84	698.	*	1	1105	134	0.	*	1	1515	184	0.
1	0250	35	299.	*	1	0700	85	629.	*	1	1110	135	0.	*	1	1520	185	0.
1	0255	36	283.	*	1	0705	86	568.	*	1	1115	136	0.	*	1	1525	186	0.
1	0300	37	265.	*	1	0710	87	514.	*	1	1120	137	0.	*	1	1530	187	0.
1	0305	38	246.	*	1	0715	88	464.	*	1	1125	138	0.	*	1	1535	188	0.
1	0310	39	229.	*	1	0720	89	417.	*	1	1130	139	0.	*	1	1540	189	0.
1	0315	40	219.	*	1	0725	90	373.	*	1	1135	140	0.	*	1	1545	190	0.
1	0320	41	220.	*	1	0730	91	332.	*	1	1140	141	0.	*	1	1550	191	0.
1	0325	42	242.	*	1	0735	92	294.	*	1	1145	142	0.	*	1	1555	192	0.
1	0330	43	300.	*	1	0740	93	258.	*	1	1150	143	0.	*	1	1600	193	0.
1	0335	44	400.	*	1	0745	94	225.	*	1	1155	144	0.	*	1	1605	194	0.
1	0340	45	549.	*	1	0750	95	196.	*	1	1200	145	0.	*	1	1610	195	0.
1	0345	46	755.	*	1	0755	96	170.	*	1	1205	146	0.	*	1	1615	196	0.
1	0350	47	1019.	*	1	0800	97	146.	*	1	1210	147	0.	*	1	1620	197	0.
1	0355	48	1331.	*	1	0805	98	126.	*	1	1215	148	0.	*	1	1625	198	0.
1	0400	49	1660.	*	1	0810	99	108.	*	1	1220	149	0.	*	1	1630	199	0.
1	0405	50	1965.	*	1	0815	100	93.	*	1	1225	150	0.	*	1	1635	200	0.

**

PEAK FLOW + (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	16.58-HR
+ 2591.	4.58	1230.	472.	472.	472.
	(INCHES)	.217	.230	.230	.230
	(AC-FT)	610.	647.	647.	647.

CUMULATIVE AREA = 52.71 SQ MI

**

HYDROGRAPH AT STATION CFplain
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .26

**

543

		*		*		*		*		*		*		*		*		*		*
DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	
1	0000	1	0.	* 1	0410	51	1460.	* 1	0820	101	35.	* 1	1230	151	0.					
1	0005	2	0.	* 1	0415	52	1589.	* 1	0825	102	30.	* 1	1235	152	0.					
1	0010	3	0.	* 1	0420	53	1668.	* 1	0830	103	26.	* 1	1240	153	0.					
1	0015	4	0.	* 1	0425	54	1706.	* 1	0835	104	23.	* 1	1245	154	0.					
1	0020	5	1.	* 1	0430	55	1717.	* 1	0840	105	19.	* 1	1250	155	0.					
1	0025	6	3.	* 1	0435	56	1714.	* 1	0845	106	17.	* 1	1255	156	0.					
1	0030	7	6.	* 1	0440	57	1708.	* 1	0850	107	15.	* 1	1300	157	0.					
1	0035	8	11.	* 1	0445	58	1703.	* 1	0855	108	13.	* 1	1305	158	0.					
1	0040	9	19.	* 1	0450	59	1695.	* 1	0900	109	11.	* 1	1310	159	0.					
1	0045	10	32.	* 1	0455	60	1683.	* 1	0905	110	10.	* 1	1315	160	0.					
1	0050	11	50.	* 1	0500	61	1667.	* 1	0910	111	9.	* 1	1320	161	0.					
1	0055	12	72.	* 1	0505	62	1648.	* 1	0915	112	8.	* 1	1325	162	0.					
1	0100	13	95.	* 1	0510	63	1626.	* 1	0920	113	7.	* 1	1330	163	0.					
1	0105	14	116.	* 1	0515	64	1600.	* 1	0925	114	6.	* 1	1335	164	0.					
1	0110	15	134.	* 1	0520	65	1571.	* 1	0930	115	5.	* 1	1340	165	0.					
1	0115	16	146.	* 1	0525	66	1541.	* 1	0935	116	5.	* 1	1345	166	0.					
1	0120	17	154.	* 1	0530	67	1509.	* 1	0940	117	4.	* 1	1350	167	0.					
1	0125	18	159.	* 1	0535	68	1474.	* 1	0945	118	4.	* 1	1355	168	0.					
1	0130	19	162.	* 1	0540	69	1435.	* 1	0950	119	3.	* 1	1400	169	0.					
1	0135	20	164.	* 1	0545	70	1390.	* 1	0955	120	3.	* 1	1405	170	0.					
1	0140	21	166.	* 1	0550	71	1338.	* 1	1000	121	2.	* 1	1410	171	0.					
1	0145	22	168.	* 1	0555	72	1276.	* 1	1005	122	2.	* 1	1415	172	0.					
1	0150	23	168.	* 1	0600	73	1205.	* 1	1010	123	1.	* 1	1420	173	0.					

1	0155	24	167.	*	1	0605	74	1126.	*	1	1015	124	1.	*	1	1425	174	0.
1	0200	25	164.	*	1	0610	75	1039.	*	1	1020	125	1.	*	1	1430	175	0.
1	0205	26	161.	*	1	0615	76	948.	*	1	1025	126	1.	*	1	1435	176	0.
1	0210	27	156.	*	1	0620	77	857.	*	1	1030	127	0.	*	1	1440	177	0.
1	0215	28	151.	*	1	0625	78	767.	*	1	1035	128	0.	*	1	1445	178	0.
1	0220	29	146.	*	1	0630	79	681.	*	1	1040	129	0.	*	1	1450	179	0.
1	0225	30	141.	*	1	0635	80	602.	*	1	1045	130	0.	*	1	1455	180	0.
1	0230	31	137.	*	1	0640	81	530.	*	1	1050	131	0.	*	1	1500	181	0.
1	0235	32	133.	*	1	0645	82	466.	*	1	1055	132	0.	*	1	1505	182	0.
1	0240	33	130.	*	1	0650	83	410.	*	1	1100	133	0.	*	1	1510	183	0.
1	0245	34	126.	*	1	0655	84	361.	*	1	1105	134	0.	*	1	1515	184	0.
1	0250	35	121.	*	1	0700	85	319.	*	1	1110	135	0.	*	1	1520	185	0.
1	0255	36	116.	*	1	0705	86	282.	*	1	1115	136	0.	*	1	1525	186	0.
1	0300	37	109.	*	1	0710	87	250.	*	1	1120	137	0.	*	1	1530	187	0.
1	0305	38	102.	*	1	0715	88	222.	*	1	1125	138	0.	*	1	1535	188	0.
1	0310	39	96.	*	1	0720	89	197.	*	1	1130	139	0.	*	1	1540	189	0.
1	0315	40	93.	*	1	0725	90	174.	*	1	1135	140	0.	*	1	1545	190	0.
1	0320	41	96.	*	1	0730	91	153.	*	1	1140	141	0.	*	1	1550	191	0.
1	0325	42	111.	*	1	0735	92	134.	*	1	1145	142	0.	*	1	1555	192	0.
1	0330	43	147.	*	1	0740	93	117.	*	1	1150	143	0.	*	1	1600	193	0.
1	0335	44	210.	*	1	0745	94	101.	*	1	1155	144	0.	*	1	1605	194	0.
1	0340	45	306.	*	1	0750	95	88.	*	1	1200	145	0.	*	1	1610	195	0.
1	0345	46	440.	*	1	0755	96	75.	*	1	1205	146	0.	*	1	1615	196	0.
1	0350	47	618.	*	1	0800	97	65.	*	1	1210	147	0.	*	1	1620	197	0.
1	0355	48	832.	*	1	0805	98	56.	*	1	1215	148	0.	*	1	1625	198	0.
1	0400	49	1063.	*	1	0810	99	48.	*	1	1220	149	0.	*	1	1630	199	0.
1	0405	50	1281.	*	1	0815	100	41.	*	1	1225	150	0.	*	1	1635	200	0.

**

PEAK FLOW + (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	16.58-HR
+ 1717.	4.50	741.	279.	279.	279.

(INCHES) .131 .136 .136 .136
 (AC-FT) 367. 382. 382. 382.

CUMULATIVE AREA = 52.71 SQ MI

 * *
 109 KK * HVal *
 * *

116 KO OUTPUT CONTROL VARIABLES
 IPRNT 2 PRINT CONTROL
 IPLOT 0 PLOT CONTROL
 QSCAL 0. HYDROGRAPH PLOT SCALE

SUBBASIN RUNOFF DATA

111 BA SUBBASIN CHARACTERISTICS
 TAREA 11.14 SUBBASIN AREA

PRECIPITATION DATA

112 PB STORM 3.02 BASIN TOTAL PRECIPITATION

39 PI INCREMENTAL PRECIPITATION PATTERN
 .02 .04 .02 .03 .03 .01 .01 .01 .00 .01
 .00 .01 .00 .01 .01 .01 .01 .01 .01 .01
 .01 .01 .02 .01 .01 .00 .00 .00 .01 .00
 .01 .01 .01 .02 .02 .03 .02 .05 .04 .05
 .07 .08 .01 .01 .02 .03 .01 .00 .01 .01

545

.01 .01 .01 .02 .03 .02 .03 .03 .00 .00
 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00
 .00 .00

114 LG GREEN AND AMPT LOSS RATE
 STRTL .05 STARTING LOSS
 DTH .00 MOISTURE DEFICIT
 PSIF .00 WETTING FRONT SUCTION
 XKSAT .28 HYDRAULIC CONDUCTIVITY
 RTIMP .63 PERCENT IMPERVIOUS AREA

115 UD SCS DIMENSIONLESS UNITGRAPH
 TLAG .86 LAG

UNIT HYDROGRAPH
 54 END-OF-PERIOD ORDINATES

165. 533. 1012. 1633. 2443. 3423. 4387. 5151. 5663. 5922.
 5957. 5875. 5543. 5157. 4720. 4184. 3548. 2962. 2511. 2154.
 1847. 1598. 1397. 1203. 1037. 874. 763. 653. 567. 484.
 417. 356. 306. 264. 227. 197. 168. 146. 125. 108.
 91. 80. 69. 61. 54. 48. 41. 34. 28. 23.
 17. 12. 6. 1.

546

 **

HYDROGRAPH AT STATION HVal

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*
 DA MON HRMN ORD RAIN LOSS EXCESS COMP Q * DA MON HRMN ORD RAIN LOSS EXCESS COMP Q
 *

1	0000	1	.00	.00	.00	0.	*	1	0820	101	.00	.00	.00	16.
1	0005	2	.06	.05	.01	1.	*	1	0825	102	.00	.00	.00	14.
1	0010	3	.12	.02	.09	20.	*	1	0830	103	.00	.00	.00	12.
1	0015	4	.06	.02	.04	65.	*	1	0835	104	.00	.00	.00	10.
1	0020	5	.09	.02	.07	141.	*	1	0840	105	.00	.00	.00	8.
1	0025	6	.10	.02	.08	263.	*	1	0845	106	.00	.00	.00	6.
1	0030	7	.02	.02	.00	434.	*	1	0850	107	.00	.00	.00	5.
1	0035	8	.03	.02	.01	647.	*	1	0855	108	.00	.00	.00	3.
1	0040	9	.02	.02	.00	891.	*	1	0900	109	.00	.00	.00	2.
1	0045	10	.01	.01	.00	1141.	*	1	0905	110	.00	.00	.00	1.
1	0050	11	.03	.02	.00	1371.	*	1	0910	111	.00	.00	.00	0.
1	0055	12	.01	.01	.00	1553.	*	1	0915	112	.00	.00	.00	0.
1	0100	13	.02	.02	.00	1672.	*	1	0920	113	.00	.00	.00	0.
1	0105	14	.01	.01	.00	1733.	*	1	0925	114	.00	.00	.00	0.
1	0110	15	.02	.02	.00	1728.	*	1	0930	115	.00	.00	.00	0.
1	0115	16	.02	.02	.00	1681.	*	1	0935	116	.00	.00	.00	0.
1	0120	17	.02	.02	.00	1598.	*	1	0940	117	.00	.00	.00	0.
1	0125	18	.03	.02	.01	1478.	*	1	0945	118	.00	.00	.00	0.
1	0130	19	.03	.02	.01	1338.	*	1	0950	119	.00	.00	.00	0.
1	0135	20	.03	.02	.01	1190.	*	1	0955	120	.00	.00	.00	0.
1	0140	21	.03	.02	.00	1045.	*	1	1000	121	.00	.00	.00	0.
1	0145	22	.03	.02	.00	916.	*	1	1005	122	.00	.00	.00	0.
1	0150	23	.02	.02	.00	811.	*	1	1010	123	.00	.00	.00	0.
1	0155	24	.05	.02	.02	738.	*	1	1015	124	.00	.00	.00	0.
1	0200	25	.03	.02	.01	690.	*	1	1020	125	.00	.00	.00	0.
1	0205	26	.03	.02	.01	656.	*	1	1025	126	.00	.00	.00	0.
1	0210	27	.02	.02	.00	633.	*	1	1030	127	.00	.00	.00	0.
1	0215	28	.01	.01	.00	617.	*	1	1035	128	.00	.00	.00	0.
1	0220	29	.00	.00	.00	607.	*	1	1040	129	.00	.00	.00	0.
1	0225	30	.02	.02	.00	599.	*	1	1045	130	.00	.00	.00	0.
1	0230	31	.01	.01	.00	588.	*	1	1050	131	.00	.00	.00	0.
1	0235	32	.02	.02	.00	571.	*	1	1055	132	.00	.00	.00	0.
1	0240	33	.02	.02	.00	546.	*	1	1100	133	.00	.00	.00	0.
1	0245	34	.04	.02	.02	515.	*	1	1105	134	.00	.00	.00	0.
1	0250	35	.05	.02	.02	487.	*	1	1110	135	.00	.00	.00	0.
1	0255	36	.06	.02	.04	466.	*	1	1115	136	.00	.00	.00	0.
1	0300	37	.08	.02	.06	467.	*	1	1120	137	.00	.00	.00	0.

1	0305	38	.07	.02	.04	499.	*	1	1125	138	.00	.00	.00	0.
1	0310	39	.14	.02	.12	579.	*	1	1130	139	.00	.00	.00	0.
1	0315	40	.11	.02	.09	722.	*	1	1135	140	.00	.00	.00	0.
1	0320	41	.14	.02	.12	938.	*	1	1140	141	.00	.00	.00	0.
1	0325	42	.21	.02	.19	1250.	*	1	1145	142	.00	.00	.00	0.
1	0330	43	.24	.02	.22	1678.	*	1	1150	143	.00	.00	.00	0.
1	0335	44	.03	.02	.01	2199.	*	1	1155	144	.00	.00	.00	0.
1	0340	45	.03	.02	.01	2773.	*	1	1200	145	.00	.00	.00	0.
1	0345	46	.06	.02	.04	3381.	*	1	1205	146	.00	.00	.00	0.
1	0350	47	.08	.02	.06	3999.	*	1	1210	147	.00	.00	.00	0.
1	0355	48	.03	.02	.01	4570.	*	1	1215	148	.00	.00	.00	0.
1	0400	49	.02	.02	.00	5015.	*	1	1220	149	.00	.00	.00	0.
1	0405	50	.03	.02	.00	5308.	*	1	1225	150	.00	.00	.00	0.
1	0410	51	.02	.02	.00	5441.	*	1	1230	151	.00	.00	.00	0.
1	0415	52	.03	.02	.01	5436.	*	1	1235	152	.00	.00	.00	0.
1	0420	53	.02	.02	.00	5308.	*	1	1240	153	.00	.00	.00	0.
1	0425	54	.04	.02	.02	5071.	*	1	1245	154	.00	.00	.00	0.
1	0430	55	.06	.02	.03	4740.	*	1	1250	155	.00	.00	.00	0.
1	0435	56	.09	.02	.07	4381.	*	1	1255	156	.00	.00	.00	0.
1	0440	57	.06	.02	.04	4016.	*	1	1300	157	.00	.00	.00	0.
1	0445	58	.08	.02	.06	3662.	*	1	1305	158	.00	.00	.00	0.
1	0450	59	.08	.02	.06	3358.	*	1	1310	159	.00	.00	.00	0.
1	0455	60	.01	.01	.00	3148.	*	1	1315	160	.00	.00	.00	0.
1	0500	61	.01	.01	.00	3025.	*	1	1320	161	.00	.00	.00	0.
1	0505	62	.02	.02	.00	2950.	*	1	1325	162	.00	.00	.00	0.
1	0510	63	.01	.01	.00	2902.	*	1	1330	163	.00	.00	.00	0.
1	0515	64	.01	.01	.00	2860.	*	1	1335	164	.00	.00	.00	0.
1	0520	65	.01	.01	.00	2804.	*	1	1340	165	.00	.00	.00	0.
1	0525	66	.01	.01	.00	2710.	*	1	1345	166	.00	.00	.00	0.
1	0530	67	.00	.00	.00	2581.	*	1	1350	167	.00	.00	.00	0.
1	0535	68	.01	.01	.00	2419.	*	1	1355	168	.00	.00	.00	0.
1	0540	69	.00	.00	.00	2242.	*	1	1400	169	.00	.00	.00	0.
1	0545	70	.01	.01	.00	2043.	*	1	1405	170	.00	.00	.00	0.
1	0550	71	.00	.00	.00	1828.	*	1	1410	171	.00	.00	.00	0.
1	0555	72	.01	.01	.00	1611.	*	1	1415	172	.00	.00	.00	0.
1	0600	73	.00	.00	.00	1402.	*	1	1420	173	.00	.00	.00	0.
1	0605	74	.00	.00	.00	1204.	*	1	1425	174	.00	.00	.00	0.

1	0610	75	.00	.00	.00	1026.	*	1	1430	175	.00	.00	.00	0.
1	0615	76	.00	.00	.00	875.	*	1	1435	176	.00	.00	.00	0.
1	0620	77	.00	.00	.00	751.	*	1	1440	177	.00	.00	.00	0.
1	0625	78	.00	.00	.00	648.	*	1	1445	178	.00	.00	.00	0.
1	0630	79	.00	.00	.00	559.	*	1	1450	179	.00	.00	.00	0.
1	0635	80	.00	.00	.00	483.	*	1	1455	180	.00	.00	.00	0.
1	0640	81	.00	.00	.00	416.	*	1	1500	181	.00	.00	.00	0.
1	0645	82	.00	.00	.00	359.	*	1	1505	182	.00	.00	.00	0.
1	0650	83	.00	.00	.00	308.	*	1	1510	183	.00	.00	.00	0.
1	0655	84	.00	.00	.00	266.	*	1	1515	184	.00	.00	.00	0.
1	0700	85	.00	.00	.00	229.	*	1	1520	185	.00	.00	.00	0.
1	0705	86	.00	.00	.00	197.	*	1	1525	186	.00	.00	.00	0.
1	0710	87	.00	.00	.00	170.	*	1	1530	187	.00	.00	.00	0.
1	0715	88	.00	.00	.00	145.	*	1	1535	188	.00	.00	.00	0.
1	0720	89	.00	.00	.00	124.	*	1	1540	189	.00	.00	.00	0.
1	0725	90	.00	.00	.00	105.	*	1	1545	190	.00	.00	.00	0.
1	0730	91	.00	.00	.00	88.	*	1	1550	191	.00	.00	.00	0.
1	0735	92	.00	.00	.00	74.	*	1	1555	192	.00	.00	.00	0.
1	0740	93	.00	.00	.00	62.	*	1	1600	193	.00	.00	.00	0.
1	0745	94	.00	.00	.00	51.	*	1	1605	194	.00	.00	.00	0.
1	0750	95	.00	.00	.00	42.	*	1	1610	195	.00	.00	.00	0.
1	0755	96	.00	.00	.00	35.	*	1	1615	196	.00	.00	.00	0.
1	0800	97	.00	.00	.00	29.	*	1	1620	197	.00	.00	.00	0.
1	0805	98	.00	.00	.00	25.	*	1	1625	198	.00	.00	.00	0.
1	0810	99	.00	.00	.00	21.	*	1	1630	199	.00	.00	.00	0.
1	0815	100	.00	.00	.00	18.	*	1	1635	200	.00	.00	.00	0.

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TOTAL RAINFALL = 3.02, TOTAL LOSS = 1.31, TOTAL EXCESS = 1.71

PEAK FLOW + (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW			
		6-HR (CFS)	24-HR	72-HR	16.58-HR

+ 5441. 4.17 1984. 739. 739. 739.
 (INCHES) 1.656 1.706 1.706 1.706
 (AC-FT) 984. 1013. 1013. 1013.

CUMULATIVE AREA = 11.14 SQ MI

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HYDROGRAPH AT STATION HVal
 PLAN 1, RATIO = .62

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550	*							*									
	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP
1	0000	1	.00	.00	.00	0.	*	1	0820	101	.00	.00	.00	7.			
1	0005	2	.04	.04	.00	0.	*	1	0825	102	.00	.00	.00	6.			
1	0010	3	.07	.03	.04	7.	*	1	0830	103	.00	.00	.00	5.			
1	0015	4	.04	.02	.02	25.	*	1	0835	104	.00	.00	.00	4.			
1	0020	5	.06	.02	.03	57.	*	1	0840	105	.00	.00	.00	4.			
1	0025	6	.06	.02	.04	110.	*	1	0845	106	.00	.00	.00	3.			
1	0030	7	.01	.01	.00	186.	*	1	0850	107	.00	.00	.00	2.			
1	0035	8	.02	.02	.00	280.	*	1	0855	108	.00	.00	.00	2.			
1	0040	9	.01	.01	.00	389.	*	1	0900	109	.00	.00	.00	1.			
1	0045	10	.01	.01	.00	503.	*	1	0905	110	.00	.00	.00	1.			
1	0050	11	.02	.02	.00	609.	*	1	0910	111	.00	.00	.00	0.			
1	0055	12	.00	.00	.00	693.	*	1	0915	112	.00	.00	.00	0.			
1	0100	13	.01	.01	.00	747.	*	1	0920	113	.00	.00	.00	0.			
1	0105	14	.01	.01	.00	774.	*	1	0925	114	.00	.00	.00	0.			
1	0110	15	.01	.01	.00	771.	*	1	0930	115	.00	.00	.00	0.			
1	0115	16	.01	.01	.00	748.	*	1	0935	116	.00	.00	.00	0.			
1	0120	17	.01	.01	.00	709.	*	1	0940	117	.00	.00	.00	0.			

1	0125	18	.02	.02	.00	654.	*	1	0945	118	.00	.00	.00	0.
1	0130	19	.02	.02	.00	588.	*	1	0950	119	.00	.00	.00	0.
1	0135	20	.02	.02	.00	518.	*	1	0955	120	.00	.00	.00	0.
1	0140	21	.02	.02	.00	446.	*	1	1000	121	.00	.00	.00	0.
1	0145	22	.02	.02	.00	379.	*	1	1005	122	.00	.00	.00	0.
1	0150	23	.01	.01	.00	322.	*	1	1010	123	.00	.00	.00	0.
1	0155	24	.03	.02	.01	277.	*	1	1015	124	.00	.00	.00	0.
1	0200	25	.02	.02	.00	242.	*	1	1020	125	.00	.00	.00	0.
1	0205	26	.02	.02	.00	213.	*	1	1025	126	.00	.00	.00	0.
1	0210	27	.01	.01	.00	189.	*	1	1030	127	.00	.00	.00	0.
1	0215	28	.01	.01	.00	169.	*	1	1035	128	.00	.00	.00	0.
1	0220	29	.00	.00	.00	154.	*	1	1040	129	.00	.00	.00	0.
1	0225	30	.01	.01	.00	140.	*	1	1045	130	.00	.00	.00	0.
1	0230	31	.01	.01	.00	128.	*	1	1050	131	.00	.00	.00	0.
1	0235	32	.01	.01	.00	118.	*	1	1055	132	.00	.00	.00	0.
1	0240	33	.01	.01	.00	108.	*	1	1100	133	.00	.00	.00	0.
1	0245	34	.02	.02	.00	98.	*	1	1105	134	.00	.00	.00	0.
1	0250	35	.03	.02	.01	90.	*	1	1110	135	.00	.00	.00	0.
1	0255	36	.04	.02	.01	86.	*	1	1115	136	.00	.00	.00	0.
1	0300	37	.05	.02	.03	90.	*	1	1120	137	.00	.00	.00	0.
1	0305	38	.04	.02	.02	107.	*	1	1125	138	.00	.00	.00	0.
1	0310	39	.09	.02	.06	144.	*	1	1130	139	.00	.00	.00	0.
1	0315	40	.07	.02	.05	212.	*	1	1135	140	.00	.00	.00	0.
1	0320	41	.09	.02	.06	317.	*	1	1140	141	.00	.00	.00	0.
1	0325	42	.13	.02	.11	476.	*	1	1145	142	.00	.00	.00	0.
1	0330	43	.15	.02	.13	702.	*	1	1150	143	.00	.00	.00	0.
1	0335	44	.02	.02	.00	984.	*	1	1155	144	.00	.00	.00	0.
1	0340	45	.02	.02	.00	1299.	*	1	1200	145	.00	.00	.00	0.
1	0345	46	.04	.02	.02	1638.	*	1	1205	146	.00	.00	.00	0.
1	0350	47	.05	.02	.03	1986.	*	1	1210	147	.00	.00	.00	0.
1	0355	48	.02	.02	.00	2310.	*	1	1215	148	.00	.00	.00	0.
1	0400	49	.01	.01	.00	2563.	*	1	1220	149	.00	.00	.00	0.
1	0405	50	.02	.02	.00	2730.	*	1	1225	150	.00	.00	.00	0.
1	0410	51	.01	.01	.00	2806.	*	1	1230	151	.00	.00	.00	0.
1	0415	52	.02	.02	.00	2803.	*	1	1235	152	.00	.00	.00	0.
1	0420	53	.01	.01	.00	2730.	*	1	1240	153	.00	.00	.00	0.
1	0425	54	.03	.02	.00	2597.	*	1	1245	154	.00	.00	.00	0.

1	0430	55	.04	.02	.01	2410.	*	1	1250	155	.00	.00	.00	0.
1	0435	56	.06	.02	.03	2207.	*	1	1255	156	.00	.00	.00	0.
1	0440	57	.04	.02	.02	2000.	*	1	1300	157	.00	.00	.00	0.
1	0445	58	.05	.02	.03	1794.	*	1	1305	158	.00	.00	.00	0.
1	0450	59	.05	.02	.03	1613.	*	1	1310	159	.00	.00	.00	0.
1	0455	60	.01	.01	.00	1484.	*	1	1315	160	.00	.00	.00	0.
1	0500	61	.01	.01	.00	1405.	*	1	1320	161	.00	.00	.00	0.
1	0505	62	.01	.01	.00	1355.	*	1	1325	162	.00	.00	.00	0.
1	0510	63	.00	.00	.00	1323.	*	1	1330	163	.00	.00	.00	0.
1	0515	64	.00	.00	.00	1298.	*	1	1335	164	.00	.00	.00	0.
1	0520	65	.00	.00	.00	1270.	*	1	1340	165	.00	.00	.00	0.
1	0525	66	.01	.01	.00	1225.	*	1	1345	166	.00	.00	.00	0.
1	0530	67	.00	.00	.00	1167.	*	1	1350	167	.00	.00	.00	0.
1	0535	68	.00	.00	.00	1094.	*	1	1355	168	.00	.00	.00	0.
1	0540	69	.00	.00	.00	1016.	*	1	1400	169	.00	.00	.00	0.
1	0545	70	.01	.01	.00	927.	*	1	1405	170	.00	.00	.00	0.
1	0550	71	.00	.00	.00	832.	*	1	1410	171	.00	.00	.00	0.
1	0555	72	.00	.00	.00	734.	*	1	1415	172	.00	.00	.00	0.
1	0600	73	.00	.00	.00	639.	*	1	1420	173	.00	.00	.00	0.
1	0605	74	.00	.00	.00	549.	*	1	1425	174	.00	.00	.00	0.
1	0610	75	.00	.00	.00	468.	*	1	1430	175	.00	.00	.00	0.
1	0615	76	.00	.00	.00	399.	*	1	1435	176	.00	.00	.00	0.
1	0620	77	.00	.00	.00	343.	*	1	1440	177	.00	.00	.00	0.
1	0625	78	.00	.00	.00	296.	*	1	1445	178	.00	.00	.00	0.
1	0630	79	.00	.00	.00	255.	*	1	1450	179	.00	.00	.00	0.
1	0635	80	.00	.00	.00	221.	*	1	1455	180	.00	.00	.00	0.
1	0640	81	.00	.00	.00	190.	*	1	1500	181	.00	.00	.00	0.
1	0645	82	.00	.00	.00	164.	*	1	1505	182	.00	.00	.00	0.
1	0650	83	.00	.00	.00	141.	*	1	1510	183	.00	.00	.00	0.
1	0655	84	.00	.00	.00	121.	*	1	1515	184	.00	.00	.00	0.
1	0700	85	.00	.00	.00	105.	*	1	1520	185	.00	.00	.00	0.
1	0705	86	.00	.00	.00	91.	*	1	1525	186	.00	.00	.00	0.
1	0710	87	.00	.00	.00	78.	*	1	1530	187	.00	.00	.00	0.
1	0715	88	.00	.00	.00	67.	*	1	1535	188	.00	.00	.00	0.
1	0720	89	.00	.00	.00	57.	*	1	1540	189	.00	.00	.00	0.
1	0725	90	.00	.00	.00	48.	*	1	1545	190	.00	.00	.00	0.
1	0730	91	.00	.00	.00	40.	*	1	1550	191	.00	.00	.00	0.

1	0735	92	.00	.00	.00	34.	*	1	1555	192	.00	.00	.00	0.
1	0740	93	.00	.00	.00	28.	*	1	1600	193	.00	.00	.00	0.
1	0745	94	.00	.00	.00	23.	*	1	1605	194	.00	.00	.00	0.
1	0750	95	.00	.00	.00	18.	*	1	1610	195	.00	.00	.00	0.
1	0755	96	.00	.00	.00	15.	*	1	1615	196	.00	.00	.00	0.
1	0800	97	.00	.00	.00	13.	*	1	1620	197	.00	.00	.00	0.
1	0805	98	.00	.00	.00	11.	*	1	1625	198	.00	.00	.00	0.
1	0810	99	.00	.00	.00	9.	*	1	1630	199	.00	.00	.00	0.
1	0815	100	.00	.00	.00	8.	*	1	1635	200	.00	.00	.00	0.

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**

TOTAL RAINFALL = 1.87, TOTAL LOSS = 1.09, TOTAL EXCESS = .78

553

PEAK FLOW (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	16.58-HR
+ 2806.	4.17	913.	340.	340.	340.
	(INCHES)	.762	.784	.784	.784
	(AC-FT)	453.	466.	466.	466.

CUMULATIVE AREA = 11.14 SQ MI

**

HYDROGRAPH AT STATION HVal
PLAN 1, RATIO = .44

**

* * *																		
DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q
1	0000	1	.00	.00	.00	0.	*	1	0820	101	.00	.00	.00	3.				
1	0005	2	.03	.03	.00	0.	*	1	0825	102	.00	.00	.00	3.				
1	0010	3	.05	.04	.02	3.	*	1	0830	103	.00	.00	.00	2.				
1	0015	4	.03	.02	.00	10.	*	1	0835	104	.00	.00	.00	2.				
1	0020	5	.04	.02	.02	22.	*	1	0840	105	.00	.00	.00	2.				
1	0025	6	.05	.02	.02	45.	*	1	0845	106	.00	.00	.00	1.				
1	0030	7	.01	.01	.00	78.	*	1	0850	107	.00	.00	.00	1.				
1	0035	8	.01	.01	.00	119.	*	1	0855	108	.00	.00	.00	1.				
1	0040	9	.01	.01	.00	167.	*	1	0900	109	.00	.00	.00	0.				
1	0045	10	.00	.00	.00	219.	*	1	0905	110	.00	.00	.00	0.				
1	0050	11	.01	.01	.00	270.	*	1	0910	111	.00	.00	.00	0.				
1	0055	12	.00	.00	.00	311.	*	1	0915	112	.00	.00	.00	0.				
1	0100	13	.01	.01	.00	338.	*	1	0920	113	.00	.00	.00	0.				
1	0105	14	.00	.00	.00	353.	*	1	0925	114	.00	.00	.00	0.				
1	0110	15	.01	.01	.00	354.	*	1	0930	115	.00	.00	.00	0.				
1	0115	16	.01	.01	.00	345.	*	1	0935	116	.00	.00	.00	0.				
1	0120	17	.01	.01	.00	329.	*	1	0940	117	.00	.00	.00	0.				
1	0125	18	.01	.01	.00	304.	*	1	0945	118	.00	.00	.00	0.				
1	0130	19	.01	.01	.00	276.	*	1	0950	119	.00	.00	.00	0.				
1	0135	20	.01	.01	.00	244.	*	1	0955	120	.00	.00	.00	0.				
1	0140	21	.01	.01	.00	212.	*	1	1000	121	.00	.00	.00	0.				
1	0145	22	.01	.01	.00	180.	*	1	1005	122	.00	.00	.00	0.				
1	0150	23	.01	.01	.00	153.	*	1	1010	123	.00	.00	.00	0.				
1	0155	24	.02	.02	.00	131.	*	1	1015	124	.00	.00	.00	0.				
1	0200	25	.01	.01	.00	114.	*	1	1020	125	.00	.00	.00	0.				
1	0205	26	.01	.01	.00	99.	*	1	1025	126	.00	.00	.00	0.				
1	0210	27	.01	.01	.00	87.	*	1	1030	127	.00	.00	.00	0.				
1	0215	28	.01	.01	.00	76.	*	1	1035	128	.00	.00	.00	0.				
1	0220	29	.00	.00	.00	66.	*	1	1040	129	.00	.00	.00	0.				
1	0225	30	.01	.01	.00	58.	*	1	1045	130	.00	.00	.00	0.				
1	0230	31	.01	.01	.00	50.	*	1	1050	131	.00	.00	.00	0.				
1	0235	32	.01	.01	.00	44.	*	1	1055	132	.00	.00	.00	0.				
1	0240	33	.01	.01	.00	39.	*	1	1100	133	.00	.00	.00	0.				
1	0245	34	.02	.02	.00	34.	*	1	1105	134	.00	.00	.00	0.				

1	0250	35	.02	.02	.00	30.	*	1	1110	135	.00	.00	.00	0.
1	0255	36	.03	.02	.00	27.	*	1	1115	136	.00	.00	.00	0.
1	0300	37	.04	.02	.01	27.	*	1	1120	137	.00	.00	.00	0.
1	0305	38	.03	.02	.01	32.	*	1	1125	138	.00	.00	.00	0.
1	0310	39	.06	.02	.04	47.	*	1	1130	139	.00	.00	.00	0.
1	0315	40	.05	.02	.03	78.	*	1	1135	140	.00	.00	.00	0.
1	0320	41	.06	.02	.04	129.	*	1	1140	141	.00	.00	.00	0.
1	0325	42	.09	.02	.07	211.	*	1	1145	142	.00	.00	.00	0.
1	0330	43	.11	.02	.08	337.	*	1	1150	143	.00	.00	.00	0.
1	0335	44	.01	.01	.00	501.	*	1	1155	144	.00	.00	.00	0.
1	0340	45	.01	.01	.00	690.	*	1	1200	145	.00	.00	.00	0.
1	0345	46	.03	.02	.00	898.	*	1	1205	146	.00	.00	.00	0.
1	0350	47	.04	.02	.01	1116.	*	1	1210	147	.00	.00	.00	0.
1	0355	48	.01	.01	.00	1322.	*	1	1215	148	.00	.00	.00	0.
1	0400	49	.01	.01	.00	1485.	*	1	1220	149	.00	.00	.00	0.
1	0405	50	.01	.01	.00	1595.	*	1	1225	150	.00	.00	.00	0.
1	0410	51	.01	.01	.00	1646.	*	1	1230	151	.00	.00	.00	0.
1	0415	52	.01	.01	.00	1648.	*	1	1235	152	.00	.00	.00	0.
1	0420	53	.01	.01	.00	1607.	*	1	1240	153	.00	.00	.00	0.
1	0425	54	.02	.02	.00	1529.	*	1	1245	154	.00	.00	.00	0.
1	0430	55	.03	.02	.00	1416.	*	1	1250	155	.00	.00	.00	0.
1	0435	56	.04	.02	.02	1291.	*	1	1255	156	.00	.00	.00	0.
1	0440	57	.03	.02	.00	1161.	*	1	1300	157	.00	.00	.00	0.
1	0445	58	.04	.02	.01	1029.	*	1	1305	158	.00	.00	.00	0.
1	0450	59	.04	.02	.01	907.	*	1	1310	159	.00	.00	.00	0.
1	0455	60	.01	.01	.00	815.	*	1	1315	160	.00	.00	.00	0.
1	0500	61	.01	.01	.00	752.	*	1	1320	161	.00	.00	.00	0.
1	0505	62	.01	.01	.00	708.	*	1	1325	162	.00	.00	.00	0.
1	0510	63	.00	.00	.00	676.	*	1	1330	163	.00	.00	.00	0.
1	0515	64	.00	.00	.00	651.	*	1	1335	164	.00	.00	.00	0.
1	0520	65	.00	.00	.00	628.	*	1	1340	165	.00	.00	.00	0.
1	0525	66	.01	.01	.00	598.	*	1	1345	166	.00	.00	.00	0.
1	0530	67	.00	.00	.00	565.	*	1	1350	167	.00	.00	.00	0.
1	0535	68	.00	.00	.00	525.	*	1	1355	168	.00	.00	.00	0.
1	0540	69	.00	.00	.00	486.	*	1	1400	169	.00	.00	.00	0.
1	0545	70	.00	.00	.00	442.	*	1	1405	170	.00	.00	.00	0.
1	0550	71	.00	.00	.00	397.	*	1	1410	171	.00	.00	.00	0.

1	0555	72	.00	.00	.00	350.	*	1	1415	172	.00	.00	.00	0.
1	0600	73	.00	.00	.00	305.	*	1	1420	173	.00	.00	.00	0.
1	0605	74	.00	.00	.00	263.	*	1	1425	174	.00	.00	.00	0.
1	0610	75	.00	.00	.00	224.	*	1	1430	175	.00	.00	.00	0.
1	0615	76	.00	.00	.00	191.	*	1	1435	176	.00	.00	.00	0.
1	0620	77	.00	.00	.00	164.	*	1	1440	177	.00	.00	.00	0.
1	0625	78	.00	.00	.00	142.	*	1	1445	178	.00	.00	.00	0.
1	0630	79	.00	.00	.00	122.	*	1	1450	179	.00	.00	.00	0.
1	0635	80	.00	.00	.00	106.	*	1	1455	180	.00	.00	.00	0.
1	0640	81	.00	.00	.00	91.	*	1	1500	181	.00	.00	.00	0.
1	0645	82	.00	.00	.00	79.	*	1	1505	182	.00	.00	.00	0.
1	0650	83	.00	.00	.00	67.	*	1	1510	183	.00	.00	.00	0.
1	0655	84	.00	.00	.00	58.	*	1	1515	184	.00	.00	.00	0.
1	0700	85	.00	.00	.00	50.	*	1	1520	185	.00	.00	.00	0.
1	0705	86	.00	.00	.00	44.	*	1	1525	186	.00	.00	.00	0.
1	0710	87	.00	.00	.00	38.	*	1	1530	187	.00	.00	.00	0.
1	0715	88	.00	.00	.00	32.	*	1	1535	188	.00	.00	.00	0.
1	0720	89	.00	.00	.00	27.	*	1	1540	189	.00	.00	.00	0.
1	0725	90	.00	.00	.00	23.	*	1	1545	190	.00	.00	.00	0.
1	0730	91	.00	.00	.00	19.	*	1	1550	191	.00	.00	.00	0.
1	0735	92	.00	.00	.00	16.	*	1	1555	192	.00	.00	.00	0.
1	0740	93	.00	.00	.00	13.	*	1	1600	193	.00	.00	.00	0.
1	0745	94	.00	.00	.00	10.	*	1	1605	194	.00	.00	.00	0.
1	0750	95	.00	.00	.00	8.	*	1	1610	195	.00	.00	.00	0.
1	0755	96	.00	.00	.00	7.	*	1	1615	196	.00	.00	.00	0.
1	0800	97	.00	.00	.00	6.	*	1	1620	197	.00	.00	.00	0.
1	0805	98	.00	.00	.00	5.	*	1	1625	198	.00	.00	.00	0.
1	0810	99	.00	.00	.00	4.	*	1	1630	199	.00	.00	.00	0.
1	0815	100	.00	.00	.00	4.	*	1	1635	200	.00	.00	.00	0.

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**

TOTAL RAINFALL = 1.33, TOTAL LOSS = .92, TOTAL EXCESS = .41

PEAK FLOW TIME

MAXIMUM AVERAGE FLOW

		6-HR	24-HR	72-HR	16.58-HR
+ (CFS)	(HR)				
	(CFS)				
+ 1648.	4.25	482.	179.	179.	179.
	(INCHES)	.403	.413	.413	.413
	(AC-FT)	239.	245.	245.	245.

CUMULATIVE AREA = 11.14 SQ MI

**

HYDROGRAPH AT STATION HVal
PLAN 1, RATIO = .38

**

557

**																		
*																		
DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q
*																		
1	0000	1	.00	.00	.00	0.	*	1	0820	101	.00	.00	.00	2.				
1	0005	2	.02	.02	.00	0.	*	1	0825	102	.00	.00	.00	2.				
1	0010	3	.04	.04	.01	2.	*	1	0830	103	.00	.00	.00	1.				
1	0015	4	.02	.02	.00	5.	*	1	0835	104	.00	.00	.00	1.				
1	0020	5	.03	.02	.01	12.	*	1	0840	105	.00	.00	.00	1.				
1	0025	6	.04	.02	.02	25.	*	1	0845	106	.00	.00	.00	1.				
1	0030	7	.01	.01	.00	45.	*	1	0850	107	.00	.00	.00	1.				
1	0035	8	.01	.01	.00	70.	*	1	0855	108	.00	.00	.00	0.				
1	0040	9	.01	.01	.00	99.	*	1	0900	109	.00	.00	.00	0.				
1	0045	10	.00	.00	.00	132.	*	1	0905	110	.00	.00	.00	0.				
1	0050	11	.01	.01	.00	164.	*	1	0910	111	.00	.00	.00	0.				
1	0055	12	.00	.00	.00	191.	*	1	0915	112	.00	.00	.00	0.				
1	0100	13	.01	.01	.00	210.	*	1	0920	113	.00	.00	.00	0.				
1	0105	14	.00	.00	.00	221.	*	1	0925	114	.00	.00	.00	0.				

1	0110	15	.01	.01	.00	222.	*	1	0930	115	.00	.00	.00	0.
1	0115	16	.01	.01	.00	218.	*	1	0935	116	.00	.00	.00	0.
1	0120	17	.01	.01	.00	209.	*	1	0940	117	.00	.00	.00	0.
1	0125	18	.01	.01	.00	194.	*	1	0945	118	.00	.00	.00	0.
1	0130	19	.01	.01	.00	176.	*	1	0950	119	.00	.00	.00	0.
1	0135	20	.01	.01	.00	157.	*	1	0955	120	.00	.00	.00	0.
1	0140	21	.01	.01	.00	137.	*	1	1000	121	.00	.00	.00	0.
1	0145	22	.01	.01	.00	116.	*	1	1005	122	.00	.00	.00	0.
1	0150	23	.01	.01	.00	99.	*	1	1010	123	.00	.00	.00	0.
1	0155	24	.02	.02	.00	85.	*	1	1015	124	.00	.00	.00	0.
1	0200	25	.01	.01	.00	74.	*	1	1020	125	.00	.00	.00	0.
1	0205	26	.01	.01	.00	64.	*	1	1025	126	.00	.00	.00	0.
1	0210	27	.01	.01	.00	57.	*	1	1030	127	.00	.00	.00	0.
1	0215	28	.00	.00	.00	50.	*	1	1035	128	.00	.00	.00	0.
1	0220	29	.00	.00	.00	44.	*	1	1040	129	.00	.00	.00	0.
1	0225	30	.01	.01	.00	38.	*	1	1045	130	.00	.00	.00	0.
1	0230	31	.00	.00	.00	33.	*	1	1050	131	.00	.00	.00	0.
1	0235	32	.01	.01	.00	30.	*	1	1055	132	.00	.00	.00	0.
1	0240	33	.01	.01	.00	26.	*	1	1100	133	.00	.00	.00	0.
1	0245	34	.01	.01	.00	23.	*	1	1105	134	.00	.00	.00	0.
1	0250	35	.02	.02	.00	20.	*	1	1110	135	.00	.00	.00	0.
1	0255	36	.02	.02	.00	18.	*	1	1115	136	.00	.00	.00	0.
1	0300	37	.03	.02	.01	17.	*	1	1120	137	.00	.00	.00	0.
1	0305	38	.03	.02	.00	19.	*	1	1125	138	.00	.00	.00	0.
1	0310	39	.05	.02	.03	28.	*	1	1130	139	.00	.00	.00	0.
1	0315	40	.04	.02	.02	47.	*	1	1135	140	.00	.00	.00	0.
1	0320	41	.05	.02	.03	81.	*	1	1140	141	.00	.00	.00	0.
1	0325	42	.08	.02	.06	139.	*	1	1145	142	.00	.00	.00	0.
1	0330	43	.09	.02	.07	232.	*	1	1150	143	.00	.00	.00	0.
1	0335	44	.01	.01	.00	356.	*	1	1155	144	.00	.00	.00	0.
1	0340	45	.01	.01	.00	503.	*	1	1200	145	.00	.00	.00	0.
1	0345	46	.02	.02	.00	667.	*	1	1205	146	.00	.00	.00	0.
1	0350	47	.03	.02	.01	840.	*	1	1210	147	.00	.00	.00	0.
1	0355	48	.01	.01	.00	1005.	*	1	1215	148	.00	.00	.00	0.
1	0400	49	.01	.01	.00	1138.	*	1	1220	149	.00	.00	.00	0.
1	0405	50	.01	.01	.00	1227.	*	1	1225	150	.00	.00	.00	0.
1	0410	51	.01	.01	.00	1269.	*	1	1230	151	.00	.00	.00	0.

1	0415	52	.01	.01	.00	1271.	*	1	1235	152	.00	.00	.00	0.
1	0420	53	.01	.01	.00	1239.	*	1	1240	153	.00	.00	.00	0.
1	0425	54	.02	.02	.00	1178.	*	1	1245	154	.00	.00	.00	0.
1	0430	55	.02	.02	.00	1090.	*	1	1250	155	.00	.00	.00	0.
1	0435	56	.03	.02	.01	992.	*	1	1255	156	.00	.00	.00	0.
1	0440	57	.02	.02	.00	888.	*	1	1300	157	.00	.00	.00	0.
1	0445	58	.03	.02	.01	781.	*	1	1305	158	.00	.00	.00	0.
1	0450	59	.03	.02	.01	681.	*	1	1310	159	.00	.00	.00	0.
1	0455	60	.00	.00	.00	603.	*	1	1315	160	.00	.00	.00	0.
1	0500	61	.00	.00	.00	548.	*	1	1320	161	.00	.00	.00	0.
1	0505	62	.01	.01	.00	507.	*	1	1325	162	.00	.00	.00	0.
1	0510	63	.00	.00	.00	476.	*	1	1330	163	.00	.00	.00	0.
1	0515	64	.00	.00	.00	451.	*	1	1335	164	.00	.00	.00	0.
1	0520	65	.00	.00	.00	429.	*	1	1340	165	.00	.00	.00	0.
1	0525	66	.00	.00	.00	404.	*	1	1345	166	.00	.00	.00	0.
1	0530	67	.00	.00	.00	377.	*	1	1350	167	.00	.00	.00	0.
1	0535	68	.00	.00	.00	348.	*	1	1355	168	.00	.00	.00	0.
1	0540	69	.00	.00	.00	320.	*	1	1400	169	.00	.00	.00	0.
1	0545	70	.00	.00	.00	290.	*	1	1405	170	.00	.00	.00	0.
1	0550	71	.00	.00	.00	260.	*	1	1410	171	.00	.00	.00	0.
1	0555	72	.00	.00	.00	229.	*	1	1415	172	.00	.00	.00	0.
1	0600	73	.00	.00	.00	200.	*	1	1420	173	.00	.00	.00	0.
1	0605	74	.00	.00	.00	172.	*	1	1425	174	.00	.00	.00	0.
1	0610	75	.00	.00	.00	147.	*	1	1430	175	.00	.00	.00	0.
1	0615	76	.00	.00	.00	125.	*	1	1435	176	.00	.00	.00	0.
1	0620	77	.00	.00	.00	108.	*	1	1440	177	.00	.00	.00	0.
1	0625	78	.00	.00	.00	93.	*	1	1445	178	.00	.00	.00	0.
1	0630	79	.00	.00	.00	80.	*	1	1450	179	.00	.00	.00	0.
1	0635	80	.00	.00	.00	69.	*	1	1455	180	.00	.00	.00	0.
1	0640	81	.00	.00	.00	60.	*	1	1500	181	.00	.00	.00	0.
1	0645	82	.00	.00	.00	52.	*	1	1505	182	.00	.00	.00	0.
1	0650	83	.00	.00	.00	44.	*	1	1510	183	.00	.00	.00	0.
1	0655	84	.00	.00	.00	38.	*	1	1515	184	.00	.00	.00	0.
1	0700	85	.00	.00	.00	33.	*	1	1520	185	.00	.00	.00	0.
1	0705	86	.00	.00	.00	29.	*	1	1525	186	.00	.00	.00	0.
1	0710	87	.00	.00	.00	25.	*	1	1530	187	.00	.00	.00	0.
1	0715	88	.00	.00	.00	21.	*	1	1535	188	.00	.00	.00	0.

1	0720	89	.00	.00	.00	18.	*	1	1540	189	.00	.00	.00	0.
1	0725	90	.00	.00	.00	15.	*	1	1545	190	.00	.00	.00	0.
1	0730	91	.00	.00	.00	13.	*	1	1550	191	.00	.00	.00	0.
1	0735	92	.00	.00	.00	10.	*	1	1555	192	.00	.00	.00	0.
1	0740	93	.00	.00	.00	8.	*	1	1600	193	.00	.00	.00	0.
1	0745	94	.00	.00	.00	7.	*	1	1605	194	.00	.00	.00	0.
1	0750	95	.00	.00	.00	5.	*	1	1610	195	.00	.00	.00	0.
1	0755	96	.00	.00	.00	4.	*	1	1615	196	.00	.00	.00	0.
1	0800	97	.00	.00	.00	3.	*	1	1620	197	.00	.00	.00	0.
1	0805	98	.00	.00	.00	3.	*	1	1625	198	.00	.00	.00	0.
1	0810	99	.00	.00	.00	2.	*	1	1630	199	.00	.00	.00	0.
1	0815	100	.00	.00	.00	2.	*	1	1635	200	.00	.00	.00	0.

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**

TOTAL RAINFALL = 1.15, TOTAL LOSS = .85, TOTAL EXCESS = .30

560

+ (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	16.58-HR
	(CFS)				
+ 1271.	4.25	348.	129.	129.	129.
	(INCHES)	.290	.297	.297	.297
	(AC-FT)	172.	176.	176.	176.

CUMULATIVE AREA = 11.14 SQ MI

**

HYDROGRAPH AT STATION HVal
PLAN 1, RATIO = .32

**

*																		
DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q
*																		
1	0000	1	.00	.00	.00	0.	*	1	0820	101	.00	.00	.00	1.				
1	0005	2	.02	.02	.00	0.	*	1	0825	102	.00	.00	.00	1.				
1	0010	3	.04	.03	.00	1.	*	1	0830	103	.00	.00	.00	1.				
1	0015	4	.02	.02	.00	2.	*	1	0835	104	.00	.00	.00	1.				
1	0020	5	.03	.02	.01	5.	*	1	0840	105	.00	.00	.00	0.				
1	0025	6	.03	.02	.01	11.	*	1	0845	106	.00	.00	.00	0.				
1	0030	7	.01	.01	.00	20.	*	1	0850	107	.00	.00	.00	0.				
1	0035	8	.01	.01	.00	32.	*	1	0855	108	.00	.00	.00	0.				
1	0040	9	.01	.01	.00	46.	*	1	0900	109	.00	.00	.00	0.				
1	0045	10	.00	.00	.00	63.	*	1	0905	110	.00	.00	.00	0.				
1	0050	11	.01	.01	.00	80.	*	1	0910	111	.00	.00	.00	0.				
1	0055	12	.00	.00	.00	95.	*	1	0915	112	.00	.00	.00	0.				
1	0100	13	.00	.00	.00	106.	*	1	0920	113	.00	.00	.00	0.				
1	0105	14	.00	.00	.00	113.	*	1	0925	114	.00	.00	.00	0.				
1	0110	15	.01	.01	.00	115.	*	1	0930	115	.00	.00	.00	0.				
1	0115	16	.00	.00	.00	113.	*	1	0935	116	.00	.00	.00	0.				
1	0120	17	.01	.01	.00	109.	*	1	0940	117	.00	.00	.00	0.				
1	0125	18	.01	.01	.00	102.	*	1	0945	118	.00	.00	.00	0.				
1	0130	19	.01	.01	.00	93.	*	1	0950	119	.00	.00	.00	0.				
1	0135	20	.01	.01	.00	84.	*	1	0955	120	.00	.00	.00	0.				
1	0140	21	.01	.01	.00	73.	*	1	1000	121	.00	.00	.00	0.				
1	0145	22	.01	.01	.00	63.	*	1	1005	122	.00	.00	.00	0.				
1	0150	23	.01	.01	.00	53.	*	1	1010	123	.00	.00	.00	0.				
1	0155	24	.01	.01	.00	46.	*	1	1015	124	.00	.00	.00	0.				
1	0200	25	.01	.01	.00	40.	*	1	1020	125	.00	.00	.00	0.				
1	0205	26	.01	.01	.00	35.	*	1	1025	126	.00	.00	.00	0.				
1	0210	27	.00	.00	.00	31.	*	1	1030	127	.00	.00	.00	0.				
1	0215	28	.00	.00	.00	28.	*	1	1035	128	.00	.00	.00	0.				
1	0220	29	.00	.00	.00	24.	*	1	1040	129	.00	.00	.00	0.				
1	0225	30	.01	.01	.00	22.	*	1	1045	130	.00	.00	.00	0.				
1	0230	31	.00	.00	.00	19.	*	1	1050	131	.00	.00	.00	0.				

1	0235	32	.01	.01	.00	17.	*	1	1055	132	.00	.00	.00	0.
1	0240	33	.01	.01	.00	15.	*	1	1100	133	.00	.00	.00	0.
1	0245	34	.01	.01	.00	14.	*	1	1105	134	.00	.00	.00	0.
1	0250	35	.01	.01	.00	12.	*	1	1110	135	.00	.00	.00	0.
1	0255	36	.02	.02	.00	11.	*	1	1115	136	.00	.00	.00	0.
1	0300	37	.03	.02	.00	10.	*	1	1120	137	.00	.00	.00	0.
1	0305	38	.02	.02	.00	11.	*	1	1125	138	.00	.00	.00	0.
1	0310	39	.05	.02	.02	15.	*	1	1130	139	.00	.00	.00	0.
1	0315	40	.04	.02	.01	27.	*	1	1135	140	.00	.00	.00	0.
1	0320	41	.05	.02	.02	48.	*	1	1140	141	.00	.00	.00	0.
1	0325	42	.07	.02	.04	86.	*	1	1145	142	.00	.00	.00	0.
1	0330	43	.08	.02	.05	151.	*	1	1150	143	.00	.00	.00	0.
1	0335	44	.01	.01	.00	240.	*	1	1155	144	.00	.00	.00	0.
1	0340	45	.01	.01	.00	346.	*	1	1200	145	.00	.00	.00	0.
1	0345	46	.02	.02	.00	467.	*	1	1205	146	.00	.00	.00	0.
1	0350	47	.03	.02	.00	597.	*	1	1210	147	.00	.00	.00	0.
1	0355	48	.01	.01	.00	722.	*	1	1215	148	.00	.00	.00	0.
1	0400	49	.00	.00	.00	824.	*	1	1220	149	.00	.00	.00	0.
1	0405	50	.01	.01	.00	893.	*	1	1225	150	.00	.00	.00	0.
1	0410	51	.01	.01	.00	925.	*	1	1230	151	.00	.00	.00	0.
1	0415	52	.01	.01	.00	927.	*	1	1235	152	.00	.00	.00	0.
1	0420	53	.01	.01	.00	904.	*	1	1240	153	.00	.00	.00	0.
1	0425	54	.01	.01	.00	859.	*	1	1245	154	.00	.00	.00	0.
1	0430	55	.02	.02	.00	794.	*	1	1250	155	.00	.00	.00	0.
1	0435	56	.03	.02	.01	721.	*	1	1255	156	.00	.00	.00	0.
1	0440	57	.02	.02	.00	644.	*	1	1300	157	.00	.00	.00	0.
1	0445	58	.03	.02	.00	563.	*	1	1305	158	.00	.00	.00	0.
1	0450	59	.03	.02	.00	485.	*	1	1310	159	.00	.00	.00	0.
1	0455	60	.00	.00	.00	423.	*	1	1315	160	.00	.00	.00	0.
1	0500	61	.00	.00	.00	377.	*	1	1320	161	.00	.00	.00	0.
1	0505	62	.00	.00	.00	341.	*	1	1325	162	.00	.00	.00	0.
1	0510	63	.00	.00	.00	312.	*	1	1330	163	.00	.00	.00	0.
1	0515	64	.00	.00	.00	288.	*	1	1335	164	.00	.00	.00	0.
1	0520	65	.00	.00	.00	267.	*	1	1340	165	.00	.00	.00	0.
1	0525	66	.00	.00	.00	246.	*	1	1345	166	.00	.00	.00	0.
1	0530	67	.00	.00	.00	225.	*	1	1350	167	.00	.00	.00	0.
1	0535	68	.00	.00	.00	204.	*	1	1355	168	.00	.00	.00	0.

1	0540	69	.00	.00	.00	185.	*	1	1400	169	.00	.00	.00	0.
1	0545	70	.00	.00	.00	166.	*	1	1405	170	.00	.00	.00	0.
1	0550	71	.00	.00	.00	148.	*	1	1410	171	.00	.00	.00	0.
1	0555	72	.00	.00	.00	129.	*	1	1415	172	.00	.00	.00	0.
1	0600	73	.00	.00	.00	112.	*	1	1420	173	.00	.00	.00	0.
1	0605	74	.00	.00	.00	97.	*	1	1425	174	.00	.00	.00	0.
1	0610	75	.00	.00	.00	83.	*	1	1430	175	.00	.00	.00	0.
1	0615	76	.00	.00	.00	71.	*	1	1435	176	.00	.00	.00	0.
1	0620	77	.00	.00	.00	61.	*	1	1440	177	.00	.00	.00	0.
1	0625	78	.00	.00	.00	53.	*	1	1445	178	.00	.00	.00	0.
1	0630	79	.00	.00	.00	45.	*	1	1450	179	.00	.00	.00	0.
1	0635	80	.00	.00	.00	39.	*	1	1455	180	.00	.00	.00	0.
1	0640	81	.00	.00	.00	34.	*	1	1500	181	.00	.00	.00	0.
1	0645	82	.00	.00	.00	29.	*	1	1505	182	.00	.00	.00	0.
1	0650	83	.00	.00	.00	25.	*	1	1510	183	.00	.00	.00	0.
1	0655	84	.00	.00	.00	22.	*	1	1515	184	.00	.00	.00	0.
1	0700	85	.00	.00	.00	19.	*	1	1520	185	.00	.00	.00	0.
1	0705	86	.00	.00	.00	16.	*	1	1525	186	.00	.00	.00	0.
1	0710	87	.00	.00	.00	14.	*	1	1530	187	.00	.00	.00	0.
1	0715	88	.00	.00	.00	12.	*	1	1535	188	.00	.00	.00	0.
1	0720	89	.00	.00	.00	10.	*	1	1540	189	.00	.00	.00	0.
1	0725	90	.00	.00	.00	9.	*	1	1545	190	.00	.00	.00	0.
1	0730	91	.00	.00	.00	7.	*	1	1550	191	.00	.00	.00	0.
1	0735	92	.00	.00	.00	6.	*	1	1555	192	.00	.00	.00	0.
1	0740	93	.00	.00	.00	5.	*	1	1600	193	.00	.00	.00	0.
1	0745	94	.00	.00	.00	3.	*	1	1605	194	.00	.00	.00	0.
1	0750	95	.00	.00	.00	3.	*	1	1610	195	.00	.00	.00	0.
1	0755	96	.00	.00	.00	2.	*	1	1615	196	.00	.00	.00	0.
1	0800	97	.00	.00	.00	2.	*	1	1620	197	.00	.00	.00	0.
1	0805	98	.00	.00	.00	1.	*	1	1625	198	.00	.00	.00	0.
1	0810	99	.00	.00	.00	1.	*	1	1630	199	.00	.00	.00	0.
1	0815	100	.00	.00	.00	1.	*	1	1635	200	.00	.00	.00	0.

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**

TOTAL RAINFALL = .97, TOTAL LOSS = .77, TOTAL EXCESS = .20

PEAK FLOW (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	16.58-HR
+ 927.	4.25	233.	86.	86.	86.
	(INCHES)	.194	.198	.198	.198
	(AC-FT)	115.	117.	117.	117.

CUMULATIVE AREA = 11.14 SQ MI

**

HYDROGRAPH AT STATION HVal
PLAN 1, RATIO = .26

**

DA	MON	HR	MN	ORD	RAIN	LOSS	EXCESS	COMP	Q	*	DA	MON	HR	MN	ORD	RAIN	LOSS	EXCESS	COMP	Q
1	0000	1	.00	.00	.00	0.	*	1	0820	101	.00	.00	.00	0.						
1	0005	2	.02	.02	.00	0.	*	1	0825	102	.00	.00	.00	0.						
1	0010	3	.03	.03	.00	0.	*	1	0830	103	.00	.00	.00	0.						
1	0015	4	.02	.02	.00	0.	*	1	0835	104	.00	.00	.00	0.						
1	0020	5	.02	.02	.00	1.	*	1	0840	105	.00	.00	.00	0.						
1	0025	6	.03	.02	.00	2.	*	1	0845	106	.00	.00	.00	0.						
1	0030	7	.00	.00	.00	3.	*	1	0850	107	.00	.00	.00	0.						
1	0035	8	.01	.01	.00	6.	*	1	0855	108	.00	.00	.00	0.						
1	0040	9	.01	.01	.00	9.	*	1	0900	109	.00	.00	.00	0.						
1	0045	10	.00	.00	.00	13.	*	1	0905	110	.00	.00	.00	0.						
1	0050	11	.01	.01	.00	17.	*	1	0910	111	.00	.00	.00	0.						

564

1	0055	12	.00	.00	.00	22.	*	1	0915	112	.00	.00	.00	0.
1	0100	13	.00	.00	.00	25.	*	1	0920	113	.00	.00	.00	0.
1	0105	14	.00	.00	.00	27.	*	1	0925	114	.00	.00	.00	0.
1	0110	15	.01	.01	.00	28.	*	1	0930	115	.00	.00	.00	0.
1	0115	16	.00	.00	.00	28.	*	1	0935	116	.00	.00	.00	0.
1	0120	17	.01	.01	.00	28.	*	1	0940	117	.00	.00	.00	0.
1	0125	18	.01	.01	.00	26.	*	1	0945	118	.00	.00	.00	0.
1	0130	19	.01	.01	.00	24.	*	1	0950	119	.00	.00	.00	0.
1	0135	20	.01	.01	.00	22.	*	1	0955	120	.00	.00	.00	0.
1	0140	21	.01	.01	.00	20.	*	1	1000	121	.00	.00	.00	0.
1	0145	22	.01	.01	.00	17.	*	1	1005	122	.00	.00	.00	0.
1	0150	23	.00	.00	.00	15.	*	1	1010	123	.00	.00	.00	0.
1	0155	24	.01	.01	.00	13.	*	1	1015	124	.00	.00	.00	0.
1	0200	25	.01	.01	.00	12.	*	1	1020	125	.00	.00	.00	0.
1	0205	26	.01	.01	.00	11.	*	1	1025	126	.00	.00	.00	0.
1	0210	27	.00	.00	.00	10.	*	1	1030	127	.00	.00	.00	0.
1	0215	28	.00	.00	.00	9.	*	1	1035	128	.00	.00	.00	0.
1	0220	29	.00	.00	.00	8.	*	1	1040	129	.00	.00	.00	0.
1	0225	30	.01	.01	.00	8.	*	1	1045	130	.00	.00	.00	0.
1	0230	31	.00	.00	.00	7.	*	1	1050	131	.00	.00	.00	0.
1	0235	32	.00	.00	.00	7.	*	1	1055	132	.00	.00	.00	0.
1	0240	33	.00	.00	.00	6.	*	1	1100	133	.00	.00	.00	0.
1	0245	34	.01	.01	.00	6.	*	1	1105	134	.00	.00	.00	0.
1	0250	35	.01	.01	.00	5.	*	1	1110	135	.00	.00	.00	0.
1	0255	36	.02	.02	.00	5.	*	1	1115	136	.00	.00	.00	0.
1	0300	37	.02	.02	.00	5.	*	1	1120	137	.00	.00	.00	0.
1	0305	38	.02	.02	.00	5.	*	1	1125	138	.00	.00	.00	0.
1	0310	39	.04	.02	.01	7.	*	1	1130	139	.00	.00	.00	0.
1	0315	40	.03	.02	.01	13.	*	1	1135	140	.00	.00	.00	0.
1	0320	41	.04	.02	.01	24.	*	1	1140	141	.00	.00	.00	0.
1	0325	42	.05	.02	.03	46.	*	1	1145	142	.00	.00	.00	0.
1	0330	43	.06	.02	.04	86.	*	1	1150	143	.00	.00	.00	0.
1	0335	44	.01	.01	.00	142.	*	1	1155	144	.00	.00	.00	0.
1	0340	45	.01	.01	.00	211.	*	1	1200	145	.00	.00	.00	0.
1	0345	46	.02	.02	.00	291.	*	1	1205	146	.00	.00	.00	0.
1	0350	47	.02	.02	.00	379.	*	1	1210	147	.00	.00	.00	0.
1	0355	48	.01	.01	.00	465.	*	1	1215	148	.00	.00	.00	0.

1	0400	49	.00	.00	.00	536.	*	1	1220	149	.00	.00	.00	0.
1	0405	50	.01	.01	.00	585.	*	1	1225	150	.00	.00	.00	0.
1	0410	51	.00	.00	.00	609.	*	1	1230	151	.00	.00	.00	0.
1	0415	52	.01	.01	.00	612.	*	1	1235	152	.00	.00	.00	0.
1	0420	53	.00	.00	.00	598.	*	1	1240	153	.00	.00	.00	0.
1	0425	54	.01	.01	.00	569.	*	1	1245	154	.00	.00	.00	0.
1	0430	55	.01	.01	.00	526.	*	1	1250	155	.00	.00	.00	0.
1	0435	56	.02	.02	.00	477.	*	1	1255	156	.00	.00	.00	0.
1	0440	57	.02	.02	.00	425.	*	1	1300	157	.00	.00	.00	0.
1	0445	58	.02	.02	.00	368.	*	1	1305	158	.00	.00	.00	0.
1	0450	59	.02	.02	.00	312.	*	1	1310	159	.00	.00	.00	0.
1	0455	60	.00	.00	.00	265.	*	1	1315	160	.00	.00	.00	0.
1	0500	61	.00	.00	.00	228.	*	1	1320	161	.00	.00	.00	0.
1	0505	62	.00	.00	.00	198.	*	1	1325	162	.00	.00	.00	0.
1	0510	63	.00	.00	.00	172.	*	1	1330	163	.00	.00	.00	0.
1	0515	64	.00	.00	.00	150.	*	1	1335	164	.00	.00	.00	0.
1	0520	65	.00	.00	.00	132.	*	1	1340	165	.00	.00	.00	0.
1	0525	66	.00	.00	.00	114.	*	1	1345	166	.00	.00	.00	0.
1	0530	67	.00	.00	.00	99.	*	1	1350	167	.00	.00	.00	0.
1	0535	68	.00	.00	.00	86.	*	1	1355	168	.00	.00	.00	0.
1	0540	69	.00	.00	.00	75.	*	1	1400	169	.00	.00	.00	0.
1	0545	70	.00	.00	.00	65.	*	1	1405	170	.00	.00	.00	0.
1	0550	71	.00	.00	.00	56.	*	1	1410	171	.00	.00	.00	0.
1	0555	72	.00	.00	.00	48.	*	1	1415	172	.00	.00	.00	0.
1	0600	73	.00	.00	.00	42.	*	1	1420	173	.00	.00	.00	0.
1	0605	74	.00	.00	.00	36.	*	1	1425	174	.00	.00	.00	0.
1	0610	75	.00	.00	.00	31.	*	1	1430	175	.00	.00	.00	0.
1	0615	76	.00	.00	.00	27.	*	1	1435	176	.00	.00	.00	0.
1	0620	77	.00	.00	.00	23.	*	1	1440	177	.00	.00	.00	0.
1	0625	78	.00	.00	.00	20.	*	1	1445	178	.00	.00	.00	0.
1	0630	79	.00	.00	.00	17.	*	1	1450	179	.00	.00	.00	0.
1	0635	80	.00	.00	.00	15.	*	1	1455	180	.00	.00	.00	0.
1	0640	81	.00	.00	.00	13.	*	1	1500	181	.00	.00	.00	0.
1	0645	82	.00	.00	.00	11.	*	1	1505	182	.00	.00	.00	0.
1	0650	83	.00	.00	.00	10.	*	1	1510	183	.00	.00	.00	0.
1	0655	84	.00	.00	.00	8.	*	1	1515	184	.00	.00	.00	0.
1	0700	85	.00	.00	.00	7.	*	1	1520	185	.00	.00	.00	0.

1	0705	86	.00	.00	.00	6.	*	1	1525	186	.00	.00	.00	0.
1	0710	87	.00	.00	.00	6.	*	1	1530	187	.00	.00	.00	0.
1	0715	88	.00	.00	.00	5.	*	1	1535	188	.00	.00	.00	0.
1	0720	89	.00	.00	.00	4.	*	1	1540	189	.00	.00	.00	0.
1	0725	90	.00	.00	.00	3.	*	1	1545	190	.00	.00	.00	0.
1	0730	91	.00	.00	.00	3.	*	1	1550	191	.00	.00	.00	0.
1	0735	92	.00	.00	.00	2.	*	1	1555	192	.00	.00	.00	0.
1	0740	93	.00	.00	.00	1.	*	1	1600	193	.00	.00	.00	0.
1	0745	94	.00	.00	.00	1.	*	1	1605	194	.00	.00	.00	0.
1	0750	95	.00	.00	.00	0.	*	1	1610	195	.00	.00	.00	0.
1	0755	96	.00	.00	.00	0.	*	1	1615	196	.00	.00	.00	0.
1	0800	97	.00	.00	.00	0.	*	1	1620	197	.00	.00	.00	0.
1	0805	98	.00	.00	.00	0.	*	1	1625	198	.00	.00	.00	0.
1	0810	99	.00	.00	.00	0.	*	1	1630	199	.00	.00	.00	0.
1	0815	100	.00	.00	.00	0.	*	1	1635	200	.00	.00	.00	0.

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TOTAL RAINFALL = .79, TOTAL LOSS = .67, TOTAL EXCESS = .11

+ (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	16.58-HR
+ 612.	4.25	134.	49.	49.	49.
	(INCHES)	.112	.113	.113	.113
	(AC-FT)	66.	67.	67.	67.

CUMULATIVE AREA = 11.14 SQ MI

567

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*****
*      *
128 KK *  COut *
*      *
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129 KO      OUTPUT CONTROL VARIABLES
IPRNT      2 PRINT CONTROL
IPLOT      0 PLOT CONTROL
QSCAL      0. HYDROGRAPH PLOT SCALE

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130 HC      HYDROGRAPH COMBINATION
ICOMP      4 NUMBER OF HYDROGRAPHS TO COMBINE

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868

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HYDROGRAPH AT STATION COut
SUM OF 4 HYDROGRAPHS
PLAN 1, RATIO = .62

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* * * *				* * * *				* * * *				* * * *							
DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	0000	1	0.	* 1 0410 51 8699.	* 1 0820 101 889.	* 1 1230 151 0.													
1	0005	2	0.	* 1 0415 52 9395.	* 1 0825 102 771.	* 1 1235 152 0.													
1	0010	3	19.	* 1 0420 53 10090.	* 1 0830 103 667.	* 1 1240 153 0.													
1	0015	4	67.	* 1 0425 54 10741.	* 1 0835 104 576.	* 1 1245 154 0.													
1	0020	5	151.	* 1 0430 55 11318.	* 1 0840 105 497.	* 1 1250 155 0.													
1	0025	6	293.	* 1 0435 56 11820.	* 1 0845 106 428.	* 1 1255 156 0.													

1	0030	7	491.	*	1	0440	57	12238.	*	1	0850	107	369.	*	1	1300	157	0.
1	0035	8	725.	*	1	0445	58	12540.	*	1	0855	108	319.	*	1	1305	158	0.
1	0040	9	985.	*	1	0450	59	12736.	*	1	0900	109	275.	*	1	1310	159	0.
1	0045	10	1247.	*	1	0455	60	12844.	*	1	0905	110	238.	*	1	1315	160	0.
1	0050	11	1492.	*	1	0500	61	12884.	*	1	0910	111	206.	*	1	1320	161	0.
1	0055	12	1711.	*	1	0505	62	12868.	*	1	0915	112	178.	*	1	1325	162	0.
1	0100	13	1918.	*	1	0510	63	12787.	*	1	0920	113	154.	*	1	1330	163	0.
1	0105	14	2124.	*	1	0515	64	12637.	*	1	0925	114	133.	*	1	1335	164	0.
1	0110	15	2330.	*	1	0520	65	12434.	*	1	0930	115	116.	*	1	1340	165	0.
1	0115	16	2544.	*	1	0525	66	12204.	*	1	0935	116	101.	*	1	1345	166	0.
1	0120	17	2761.	*	1	0530	67	11961.	*	1	0940	117	87.	*	1	1350	167	0.
1	0125	18	2958.	*	1	0535	68	11715.	*	1	0945	118	76.	*	1	1355	168	0.
1	0130	19	3125.	*	1	0540	69	11481.	*	1	0950	119	66.	*	1	1400	169	0.
1	0135	20	3248.	*	1	0545	70	11254.	*	1	0955	120	58.	*	1	1405	170	0.
1	0140	21	3316.	*	1	0550	71	11018.	*	1	1000	121	51.	*	1	1410	171	0.
1	0145	22	3334.	*	1	0555	72	10760.	*	1	1005	122	44.	*	1	1415	172	0.
1	0150	23	3311.	*	1	0600	73	10469.	*	1	1010	123	39.	*	1	1420	173	0.
1	0155	24	3263.	*	1	0605	74	10135.	*	1	1015	124	34.	*	1	1425	174	0.
1	0200	25	3200.	*	1	0610	75	9756.	*	1	1020	125	29.	*	1	1430	175	0.
1	0205	26	3126.	*	1	0615	76	9335.	*	1	1025	126	25.	*	1	1435	176	0.
1	0210	27	3042.	*	1	0620	77	8881.	*	1	1030	127	22.	*	1	1440	177	0.
1	0215	28	2951.	*	1	0625	78	8400.	*	1	1035	128	19.	*	1	1445	178	0.
1	0220	29	2852.	*	1	0630	79	7899.	*	1	1040	129	16.	*	1	1450	179	0.
1	0225	30	2748.	*	1	0635	80	7381.	*	1	1045	130	14.	*	1	1455	180	0.
1	0230	31	2640.	*	1	0640	81	6856.	*	1	1050	131	12.	*	1	1500	181	0.
1	0235	32	2532.	*	1	0645	82	6334.	*	1	1055	132	10.	*	1	1505	182	0.
1	0240	33	2429.	*	1	0650	83	5824.	*	1	1100	133	9.	*	1	1510	183	0.
1	0245	34	2333.	*	1	0655	84	5334.	*	1	1105	134	7.	*	1	1515	184	0.
1	0250	35	2248.	*	1	0700	85	4872.	*	1	1110	135	6.	*	1	1520	185	0.
1	0255	36	2177.	*	1	0705	86	4444.	*	1	1115	136	6.	*	1	1525	186	0.
1	0300	37	2131.	*	1	0710	87	4051.	*	1	1120	137	5.	*	1	1530	187	0.
1	0305	38	2113.	*	1	0715	88	3694.	*	1	1125	138	4.	*	1	1535	188	0.
1	0310	39	2144.	*	1	0720	89	3369.	*	1	1130	139	4.	*	1	1540	189	0.
1	0315	40	2239.	*	1	0725	90	3074.	*	1	1135	140	3.	*	1	1545	190	0.
1	0320	41	2409.	*	1	0730	91	2804.	*	1	1140	141	3.	*	1	1550	191	0.
1	0325	42	2688.	*	1	0735	92	2553.	*	1	1145	142	2.	*	1	1555	192	0.
1	0330	43	3116.	*	1	0740	93	2319.	*	1	1150	143	2.	*	1	1600	193	0.

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1  0335  44  3662. * 1  0745  94  2097. * 1  1155  144  1. * 1  1605  194  0.
1  0340  45  4301. * 1  0750  95  1888. * 1  1200  145  1. * 1  1610  195  0.
1  0345  46  5021. * 1  0755  96  1689. * 1  1205  146  1. * 1  1615  196  0.
1  0350  47  5794. * 1  0800  97  1502. * 1  1210  147  1. * 1  1620  197  0.
1  0355  48  6551. * 1  0805  98  1328. * 1  1215  148  0. * 1  1625  198  0.
1  0400  49  7281. * 1  0810  99  1167. * 1  1220  149  0. * 1  1630  199  0.
1  0405  50  7992. * 1  0815  100  1021. * 1  1225  150  0. * 1  1635  200  0.
                *                *                *

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PEAK FLOW      TIME          MAXIMUM AVERAGE FLOW
      6-HR      24-HR      72-HR      16.58-HR
+ (CFS) (HR)
+ 12884. 5.00          6747.   2676.   2676.   2676.
      (INCHES) .764   .837   .837   .837
      (AC-FT) 3346.  3668.  3668.  3668.

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CUMULATIVE AREA = 82.15 SQ MI

**

HYDROGRAPH AT STATION COut
SUM OF 4 HYDROGRAPHS
PLAN 1, RATIO = .44

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DA MON HRMN ORD  FLOW * DA MON HRMN ORD  FLOW * DA MON HRMN ORD  FLOW * DA MON HRMN ORD  FLOW
      *                *                *

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1	0000	1	0.	*	1	0410	51	4899.	*	1	0820	101	455.	*	1	1230	151	0.
1	0005	2	0.	*	1	0415	52	5319.	*	1	0825	102	394.	*	1	1235	152	0.
1	0010	3	9.	*	1	0420	53	5748.	*	1	0830	103	341.	*	1	1240	153	0.
1	0015	4	30.	*	1	0425	54	6154.	*	1	0835	104	294.	*	1	1245	154	0.
1	0020	5	69.	*	1	0430	55	6516.	*	1	0840	105	253.	*	1	1250	155	0.
1	0025	6	136.	*	1	0435	56	6831.	*	1	0845	106	218.	*	1	1255	156	0.
1	0030	7	232.	*	1	0440	57	7088.	*	1	0850	107	188.	*	1	1300	157	0.
1	0035	8	345.	*	1	0445	58	7264.	*	1	0855	108	162.	*	1	1305	158	0.
1	0040	9	474.	*	1	0450	59	7367.	*	1	0900	109	140.	*	1	1310	159	0.
1	0045	10	606.	*	1	0455	60	7408.	*	1	0905	110	121.	*	1	1315	160	0.
1	0050	11	730.	*	1	0500	61	7406.	*	1	0910	111	105.	*	1	1320	161	0.
1	0055	12	841.	*	1	0505	62	7371.	*	1	0915	112	90.	*	1	1325	162	0.
1	0100	13	943.	*	1	0510	63	7301.	*	1	0920	113	78.	*	1	1330	163	0.
1	0105	14	1043.	*	1	0515	64	7192.	*	1	0925	114	68.	*	1	1335	164	0.
1	0110	15	1142.	*	1	0520	65	7052.	*	1	0930	115	59.	*	1	1340	165	0.
1	0115	16	1246.	*	1	0525	66	6895.	*	1	0935	116	51.	*	1	1345	166	0.
1	0120	17	1351.	*	1	0530	67	6730.	*	1	0940	117	45.	*	1	1350	167	0.
1	0125	18	1447.	*	1	0535	68	6562.	*	1	0945	118	39.	*	1	1355	168	0.
1	0130	19	1531.	*	1	0540	69	6401.	*	1	0950	119	34.	*	1	1400	169	0.
1	0135	20	1594.	*	1	0545	70	6248.	*	1	0955	120	30.	*	1	1405	170	0.
1	0140	21	1632.	*	1	0550	71	6095.	*	1	1000	121	26.	*	1	1410	171	0.
1	0145	22	1644.	*	1	0555	72	5935.	*	1	1005	122	23.	*	1	1415	172	0.
1	0150	23	1635.	*	1	0600	73	5762.	*	1	1010	123	20.	*	1	1420	173	0.
1	0155	24	1612.	*	1	0605	74	5570.	*	1	1015	124	17.	*	1	1425	174	0.
1	0200	25	1581.	*	1	0610	75	5356.	*	1	1020	125	15.	*	1	1430	175	0.
1	0205	26	1544.	*	1	0615	76	5121.	*	1	1025	126	13.	*	1	1435	176	0.
1	0210	27	1500.	*	1	0620	77	4867.	*	1	1030	127	11.	*	1	1440	177	0.
1	0215	28	1451.	*	1	0625	78	4599.	*	1	1035	128	9.	*	1	1445	178	0.
1	0220	29	1398.	*	1	0630	79	4318.	*	1	1040	129	8.	*	1	1450	179	0.
1	0225	30	1341.	*	1	0635	80	4027.	*	1	1045	130	7.	*	1	1455	180	0.
1	0230	31	1283.	*	1	0640	81	3731.	*	1	1050	131	6.	*	1	1500	181	0.
1	0235	32	1225.	*	1	0645	82	3436.	*	1	1055	132	5.	*	1	1505	182	0.
1	0240	33	1170.	*	1	0650	83	3147.	*	1	1100	133	4.	*	1	1510	183	0.
1	0245	34	1116.	*	1	0655	84	2870.	*	1	1105	134	3.	*	1	1515	184	0.
1	0250	35	1066.	*	1	0700	85	2609.	*	1	1110	135	3.	*	1	1520	185	0.
1	0255	36	1021.	*	1	0705	86	2367.	*	1	1115	136	3.	*	1	1525	186	0.
1	0300	37	985.	*	1	0710	87	2146.	*	1	1120	137	2.	*	1	1530	187	0.

1	0305	38	961.	*	1	0715	88	1947.	*	1	1125	138	2.	*	1	1535	188	0.
1	0310	39	962.	*	1	0720	89	1767.	*	1	1130	139	2.	*	1	1540	189	0.
1	0315	40	1000.	*	1	0725	90	1604.	*	1	1135	140	1.	*	1	1545	190	0.
1	0320	41	1086.	*	1	0730	91	1457.	*	1	1140	141	1.	*	1	1550	191	0.
1	0325	42	1242.	*	1	0735	92	1322.	*	1	1145	142	1.	*	1	1555	192	0.
1	0330	43	1496.	*	1	0740	93	1197.	*	1	1150	143	1.	*	1	1600	193	0.
1	0335	44	1830.	*	1	0745	94	1081.	*	1	1155	144	1.	*	1	1605	194	0.
1	0340	45	2225.	*	1	0750	95	971.	*	1	1200	145	1.	*	1	1610	195	0.
1	0345	46	2671.	*	1	0755	96	868.	*	1	1205	146	0.	*	1	1615	196	0.
1	0350	47	3149.	*	1	0800	97	771.	*	1	1210	147	0.	*	1	1620	197	0.
1	0355	48	3612.	*	1	0805	98	681.	*	1	1215	148	0.	*	1	1625	198	0.
1	0400	49	4052.	*	1	0810	99	598.	*	1	1220	149	0.	*	1	1630	199	0.
1	0405	50	4477.	*	1	0815	100	523.	*	1	1225	150	0.	*	1	1635	200	0.
			*			*		*			*							

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572

+ (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	16.58-HR
	(CFS)				
+ 7408.	4.92	3696.	1455.	1455.	1455.
	(INCHES)	.418	.455	.455	.455
	(AC-FT)	1833.	1994.	1994.	1994.

CUMULATIVE AREA = 82.15 SQ MI

**

HYDROGRAPH AT STATION COut
SUM OF 4 HYDROGRAPHS
PLAN 1, RATIO = .38

**

	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	0000	1	0.	* 1	0410 51	3751.	* 1	0820 101	317.	* 1	1230 151	0.			
1	0005	2	0.	* 1	0415 52	4078.	* 1	0825 102	274.	* 1	1235 152	0.			
1	0010	3	6.	* 1	0420 53	4415.	* 1	0830 103	237.	* 1	1240 153	0.			
1	0015	4	19.	* 1	0425 54	4738.	* 1	0835 104	204.	* 1	1245 154	0.			
1	0020	5	43.	* 1	0430 55	5027.	* 1	0840 105	176.	* 1	1250 155	0.			
1	0025	6	87.	* 1	0435 56	5278.	* 1	0845 106	151.	* 1	1255 156	0.			
1	0030	7	151.	* 1	0440 57	5481.	* 1	0850 107	130.	* 1	1300 157	0.			
1	0035	8	226.	* 1	0445 58	5616.	* 1	0855 108	112.	* 1	1305 158	0.			
1	0040	9	313.	* 1	0450 59	5687.	* 1	0900 109	97.	* 1	1310 159	0.			
1	0045	10	404.	* 1	0455 60	5705.	* 1	0905 110	84.	* 1	1315 160	0.			
1	0050	11	489.	* 1	0500 61	5687.	* 1	0910 111	72.	* 1	1320 161	0.			
1	0055	12	565.	* 1	0505 62	5644.	* 1	0915 112	62.	* 1	1325 162	0.			
1	0100	13	634.	* 1	0510 63	5575.	* 1	0920 113	54.	* 1	1330 163	0.			
1	0105	14	700.	* 1	0515 64	5478.	* 1	0925 114	47.	* 1	1335 164	0.			
1	0110	15	765.	* 1	0520 65	5358.	* 1	0930 115	41.	* 1	1340 165	0.			
1	0115	16	834.	* 1	0525 66	5226.	* 1	0935 116	35.	* 1	1345 166	0.			
1	0120	17	904.	* 1	0530 67	5085.	* 1	0940 117	31.	* 1	1350 167	0.			
1	0125	18	968.	* 1	0535 68	4943.	* 1	0945 118	27.	* 1	1355 168	0.			
1	0130	19	1024.	* 1	0540 69	4806.	* 1	0950 119	24.	* 1	1400 169	0.			
1	0135	20	1068.	* 1	0545 70	4676.	* 1	0955 120	21.	* 1	1405 170	0.			
1	0140	21	1095.	* 1	0550 71	4547.	* 1	1000 121	18.	* 1	1410 171	0.			
1	0145	22	1105.	* 1	0555 72	4417.	* 1	1005 122	16.	* 1	1415 172	0.			
1	0150	23	1100.	* 1	0600 73	4280.	* 1	1010 123	14.	* 1	1420 173	0.			
1	0155	24	1086.	* 1	0605 74	4130.	* 1	1015 124	12.	* 1	1425 174	0.			
1	0200	25	1067.	* 1	0610 75	3967.	* 1	1020 125	10.	* 1	1430 175	0.			
1	0205	26	1044.	* 1	0615 76	3789.	* 1	1025 126	9.	* 1	1435 176	0.			
1	0210	27	1015.	* 1	0620 77	3598.	* 1	1030 127	8.	* 1	1440 177	0.			
1	0215	28	984.	* 1	0625 78	3395.	* 1	1035 128	6.	* 1	1445 178	0.			
1	0220	29	949.	* 1	0630 79	3183.	* 1	1040 129	5.	* 1	1450 179	0.			
1	0225	30	912.	* 1	0635 80	2964.	* 1	1045 130	5.	* 1	1455 180	0.			
1	0230	31	873.	* 1	0640 81	2740.	* 1	1050 131	4.	* 1	1500 181	0.			

1	0235	32	834.	*	1	0645	82	2517.	*	1	1055	132	3.	*	1	1505	182	0.
1	0240	33	797.	*	1	0650	83	2299.	*	1	1100	133	3.	*	1	1510	183	0.
1	0245	34	761.	*	1	0655	84	2090.	*	1	1105	134	2.	*	1	1515	184	0.
1	0250	35	727.	*	1	0700	85	1893.	*	1	1110	135	2.	*	1	1520	185	0.
1	0255	36	696.	*	1	0705	86	1711.	*	1	1115	136	2.	*	1	1525	186	0.
1	0300	37	671.	*	1	0710	87	1545.	*	1	1120	137	1.	*	1	1530	187	0.
1	0305	38	653.	*	1	0715	88	1395.	*	1	1125	138	1.	*	1	1535	188	0.
1	0310	39	652.	*	1	0720	89	1261.	*	1	1130	139	1.	*	1	1540	189	0.
1	0315	40	679.	*	1	0725	90	1141.	*	1	1135	140	1.	*	1	1545	190	0.
1	0320	41	741.	*	1	0730	91	1033.	*	1	1140	141	1.	*	1	1550	191	0.
1	0325	42	859.	*	1	0735	92	934.	*	1	1145	142	1.	*	1	1555	192	0.
1	0330	43	1059.	*	1	0740	93	844.	*	1	1150	143	1.	*	1	1600	193	0.
1	0335	44	1324.	*	1	0745	94	760.	*	1	1155	144	0.	*	1	1605	194	0.
1	0340	45	1640.	*	1	0750	95	681.	*	1	1200	145	0.	*	1	1610	195	0.
1	0345	46	1999.	*	1	0755	96	608.	*	1	1205	146	0.	*	1	1615	196	0.
1	0350	47	2381.	*	1	0800	97	539.	*	1	1210	147	0.	*	1	1620	197	0.
1	0355	48	2748.	*	1	0805	98	476.	*	1	1215	148	0.	*	1	1625	198	0.
1	0400	49	3095.	*	1	0810	99	417.	*	1	1220	149	0.	*	1	1630	199	0.
1	0405	50	3425.	*	1	0815	100	364.	*	1	1225	150	0.	*	1	1635	200	0.
			*			*		*			*							

**

PEAK FLOW + (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	16.58-HR
+ 5705.	4.92	2753.	1077.	1077.	1077.
	(INCHES)	.312	.337	.337	.337
	(AC-FT)	1365.	1476.	1476.	1476.

CUMULATIVE AREA = 82.15 SQ MI

**

HYDROGRAPH AT STATION COut
 SUM OF 4 HYDROGRAPHS
 PLAN 1, RATIO = .32

**

575

	*				*				*				*						
DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
			*				*					*					*		
1	0000	1	0.	* 1	0410	51	2669.	* 1	0820	101	191.	* 1	1230	151	0.				
1	0005	2	0.	* 1	0415	52	2907.	* 1	0825	102	165.	* 1	1235	152	0.				
1	0010	3	3.	* 1	0420	53	3156.	* 1	0830	103	142.	* 1	1240	153	0.				
1	0015	4	9.	* 1	0425	54	3398.	* 1	0835	104	123.	* 1	1245	154	0.				
1	0020	5	21.	* 1	0430	55	3617.	* 1	0840	105	106.	* 1	1250	155	0.				
1	0025	6	44.	* 1	0435	56	3807.	* 1	0845	106	91.	* 1	1255	156	0.				
1	0030	7	78.	* 1	0440	57	3960.	* 1	0850	107	78.	* 1	1300	157	0.				
1	0035	8	119.	* 1	0445	58	4057.	* 1	0855	108	67.	* 1	1305	158	0.				
1	0040	9	168.	* 1	0450	59	4102.	* 1	0900	109	58.	* 1	1310	159	0.				
1	0045	10	219.	* 1	0455	60	4102.	* 1	0905	110	50.	* 1	1315	160	0.				
1	0050	11	268.	* 1	0500	61	4073.	* 1	0910	111	43.	* 1	1320	161	0.				
1	0055	12	312.	* 1	0505	62	4025.	* 1	0915	112	38.	* 1	1325	162	0.				
1	0100	13	351.	* 1	0510	63	3959.	* 1	0920	113	33.	* 1	1330	163	0.				
1	0105	14	388.	* 1	0515	64	3875.	* 1	0925	114	28.	* 1	1335	164	0.				
1	0110	15	423.	* 1	0520	65	3776.	* 1	0930	115	25.	* 1	1340	165	0.				
1	0115	16	460.	* 1	0525	66	3668.	* 1	0935	116	21.	* 1	1345	166	0.				
1	0120	17	499.	* 1	0530	67	3555.	* 1	0940	117	19.	* 1	1350	167	0.				
1	0125	18	535.	* 1	0535	68	3439.	* 1	0945	118	16.	* 1	1355	168	0.				
1	0130	19	567.	* 1	0540	69	3327.	* 1	0950	119	14.	* 1	1400	169	0.				
1	0135	20	593.	* 1	0545	70	3220.	* 1	0955	120	13.	* 1	1405	170	0.				
1	0140	21	610.	* 1	0550	71	3116.	* 1	1000	121	11.	* 1	1410	171	0.				
1	0145	22	618.	* 1	0555	72	3014.	* 1	1005	122	10.	* 1	1415	172	0.				
1	0150	23	617.	* 1	0600	73	2910.	* 1	1010	123	8.	* 1	1420	173	0.				

1	0155	24	610.	*	1	0605	74	2801.	*	1	1015	124	7.	*	1	1425	174	0.
1	0200	25	601.	*	1	0610	75	2685.	*	1	1020	125	6.	*	1	1430	175	0.
1	0205	26	589.	*	1	0615	76	2560.	*	1	1025	126	5.	*	1	1435	176	0.
1	0210	27	575.	*	1	0620	77	2427.	*	1	1030	127	5.	*	1	1440	177	0.
1	0215	28	559.	*	1	0625	78	2286.	*	1	1035	128	4.	*	1	1445	178	0.
1	0220	29	540.	*	1	0630	79	2138.	*	1	1040	129	3.	*	1	1450	179	0.
1	0225	30	520.	*	1	0635	80	1984.	*	1	1045	130	3.	*	1	1455	180	0.
1	0230	31	499.	*	1	0640	81	1828.	*	1	1050	131	2.	*	1	1500	181	0.
1	0235	32	478.	*	1	0645	82	1672.	*	1	1055	132	2.	*	1	1505	182	0.
1	0240	33	456.	*	1	0650	83	1519.	*	1	1100	133	1.	*	1	1510	183	0.
1	0245	34	436.	*	1	0655	84	1374.	*	1	1105	134	1.	*	1	1515	184	0.
1	0250	35	417.	*	1	0700	85	1237.	*	1	1110	135	1.	*	1	1520	185	0.
1	0255	36	400.	*	1	0705	86	1110.	*	1	1115	136	1.	*	1	1525	186	0.
1	0300	37	385.	*	1	0710	87	996.	*	1	1120	137	1.	*	1	1530	187	0.
1	0305	38	373.	*	1	0715	88	892.	*	1	1125	138	1.	*	1	1535	188	0.
1	0310	39	371.	*	1	0720	89	801.	*	1	1130	139	1.	*	1	1540	189	0.
1	0315	40	388.	*	1	0725	90	719.	*	1	1135	140	0.	*	1	1545	190	0.
1	0320	41	429.	*	1	0730	91	646.	*	1	1140	141	0.	*	1	1550	191	0.
1	0325	42	511.	*	1	0735	92	580.	*	1	1145	142	0.	*	1	1555	192	0.
1	0330	43	657.	*	1	0740	93	521.	*	1	1150	143	0.	*	1	1600	193	0.
1	0335	44	855.	*	1	0745	94	467.	*	1	1155	144	0.	*	1	1605	194	0.
1	0340	45	1094.	*	1	0750	95	417.	*	1	1200	145	0.	*	1	1610	195	0.
1	0345	46	1367.	*	1	0755	96	371.	*	1	1205	146	0.	*	1	1615	196	0.
1	0350	47	1657.	*	1	0800	97	328.	*	1	1210	147	0.	*	1	1620	197	0.
1	0355	48	1933.	*	1	0805	98	288.	*	1	1215	148	0.	*	1	1625	198	0.
1	0400	49	2191.	*	1	0810	99	252.	*	1	1220	149	0.	*	1	1630	199	0.
1	0405	50	2432.	*	1	0815	100	220.	*	1	1225	150	0.	*	1	1635	200	0.

**

PEAK FLOW + (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	16.58-HR
+ 4102.	4.92	1877.	726.	726.	726.

(INCHES) .212 .227 .227 .227
 (AC-FT) 931. 995. 995. 995.

CUMULATIVE AREA = 82.15 SQ MI

 **

HYDROGRAPH AT STATION COut
 SUM OF 4 HYDROGRAPHS
 PLAN 1, RATIO = .26

 **

577

	*				*				*										
DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
			*				*					*					*		
1	0000	1	0.	* 1	0410	51	1726.	* 1	0820	101	85.	* 1	1230	151	0.				
1	0005	2	0.	* 1	0415	52	1883.	* 1	0825	102	73.	* 1	1235	152	0.				
1	0010	3	1.	* 1	0420	53	2051.	* 1	0830	103	62.	* 1	1240	153	0.				
1	0015	4	3.	* 1	0425	54	2216.	* 1	0835	104	53.	* 1	1245	154	0.				
1	0020	5	6.	* 1	0430	55	2368.	* 1	0840	105	46.	* 1	1250	155	0.				
1	0025	6	14.	* 1	0435	56	2501.	* 1	0845	106	39.	* 1	1255	156	0.				
1	0030	7	26.	* 1	0440	57	2607.	* 1	0850	107	34.	* 1	1300	157	0.				
1	0035	8	40.	* 1	0445	58	2672.	* 1	0855	108	29.	* 1	1305	158	0.				
1	0040	9	58.	* 1	0450	59	2697.	* 1	0900	109	25.	* 1	1310	159	0.				
1	0045	10	78.	* 1	0455	60	2687.	* 1	0905	110	22.	* 1	1315	160	0.				
1	0050	11	98.	* 1	0500	61	2653.	* 1	0910	111	19.	* 1	1320	161	0.				
1	0055	12	115.	* 1	0505	62	2606.	* 1	0915	112	16.	* 1	1325	162	0.				
1	0100	13	130.	* 1	0510	63	2547.	* 1	0920	113	14.	* 1	1330	163	0.				
1	0105	14	143.	* 1	0515	64	2478.	* 1	0925	114	12.	* 1	1335	164	0.				
1	0110	15	155.	* 1	0520	65	2400.	* 1	0930	115	11.	* 1	1340	165	0.				
1	0115	16	168.	* 1	0525	66	2318.	* 1	0935	116	9.	* 1	1345	166	0.				
1	0120	17	182.	* 1	0530	67	2231.	* 1	0940	117	8.	* 1	1350	167	0.				

1	0125	18	194.	*	1	0535	68	2143.	*	1	0945	118	7.	*	1	1355	168	0.
1	0130	19	206.	*	1	0540	69	2056.	*	1	0950	119	6.	*	1	1400	169	0.
1	0135	20	217.	*	1	0545	70	1972.	*	1	0955	120	6.	*	1	1405	170	0.
1	0140	21	224.	*	1	0550	71	1893.	*	1	1000	121	5.	*	1	1410	171	0.
1	0145	22	228.	*	1	0555	72	1816.	*	1	1005	122	4.	*	1	1415	172	0.
1	0150	23	228.	*	1	0600	73	1741.	*	1	1010	123	4.	*	1	1420	173	0.
1	0155	24	227.	*	1	0605	74	1666.	*	1	1015	124	3.	*	1	1425	174	0.
1	0200	25	225.	*	1	0610	75	1590.	*	1	1020	125	3.	*	1	1430	175	0.
1	0205	26	222.	*	1	0615	76	1510.	*	1	1025	126	2.	*	1	1435	176	0.
1	0210	27	218.	*	1	0620	77	1427.	*	1	1030	127	2.	*	1	1440	177	0.
1	0215	28	214.	*	1	0625	78	1338.	*	1	1035	128	2.	*	1	1445	178	0.
1	0220	29	208.	*	1	0630	79	1246.	*	1	1040	129	1.	*	1	1450	179	0.
1	0225	30	202.	*	1	0635	80	1150.	*	1	1045	130	1.	*	1	1455	180	0.
1	0230	31	194.	*	1	0640	81	1051.	*	1	1050	131	1.	*	1	1500	181	0.
1	0235	32	187.	*	1	0645	82	953.	*	1	1055	132	1.	*	1	1505	182	0.
1	0240	33	179.	*	1	0650	83	858.	*	1	1100	133	0.	*	1	1510	183	0.
1	0245	34	171.	*	1	0655	84	766.	*	1	1105	134	0.	*	1	1515	184	0.
1	0250	35	164.	*	1	0700	85	681.	*	1	1110	135	0.	*	1	1520	185	0.
1	0255	36	158.	*	1	0705	86	603.	*	1	1115	136	0.	*	1	1525	186	0.
1	0300	37	152.	*	1	0710	87	532.	*	1	1120	137	0.	*	1	1530	187	0.
1	0305	38	147.	*	1	0715	88	469.	*	1	1125	138	0.	*	1	1535	188	0.
1	0310	39	148.	*	1	0720	89	414.	*	1	1130	139	0.	*	1	1540	189	0.
1	0315	40	160.	*	1	0725	90	365.	*	1	1135	140	0.	*	1	1545	190	0.
1	0320	41	185.	*	1	0730	91	322.	*	1	1140	141	0.	*	1	1550	191	0.
1	0325	42	239.	*	1	0735	92	284.	*	1	1145	142	0.	*	1	1555	192	0.
1	0330	43	337.	*	1	0740	93	251.	*	1	1150	143	0.	*	1	1600	193	0.
1	0335	44	473.	*	1	0745	94	222.	*	1	1155	144	0.	*	1	1605	194	0.
1	0340	45	639.	*	1	0750	95	195.	*	1	1200	145	0.	*	1	1610	195	0.
1	0345	46	831.	*	1	0755	96	171.	*	1	1205	146	0.	*	1	1615	196	0.
1	0350	47	1036.	*	1	0800	97	150.	*	1	1210	147	0.	*	1	1620	197	0.
1	0355	48	1228.	*	1	0805	98	131.	*	1	1215	148	0.	*	1	1625	198	0.
1	0400	49	1406.	*	1	0810	99	113.	*	1	1220	149	0.	*	1	1630	199	0.
1	0405	50	1569.	*	1	0815	100	98.	*	1	1225	150	0.	*	1	1635	200	0.

**

PEAK FLOW (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	16.58-HR
+ 2697.	4.83	1129.	427.	427.	427.
	(INCHES)	.128	.134	.134	.134
	(AC-FT)	560.	586.	586.	586.

CUMULATIVE AREA = 82.15 SQ MI

1

PEAK FLOW AND STAGE (END-OF-PERIOD) SUMMARY FOR MULTIPLE PLAN-RATIO ECONOMIC COMPUTATIONS
 FLOWS IN CUBIC FEET PER SECOND, AREA IN SQUARE MILES
 TIME TO PEAK IN HOURS

579

OPERATION	STATION	AREA	PLAN	RATIOS APPLIED TO PRECIPITATION				
				RATIO 1	RATIO 2	RATIO 3	RATIO 4	RATIO 5
		.62	.44	.38	.32	.26		

HYDROGRAPH AT

+ WSage	7.86	1	FLOW	2757.	1705.	1364.	1024.	708.
			TIME	3.92	3.92	3.92	3.92	4.00

ROUTED TO

+ RWsage	7.86	1	FLOW	2325.	1420.	1129.	840.	574.
			TIME	5.00	5.00	5.00	5.00	5.00

HYDROGRAPH AT

+ RFan	12.56	1	FLOW	2505.	1464.	1130.	817.	537.
			TIME	4.50	4.50	4.50	4.50	4.50

HYDROGRAPH AT

+ NWest	12.27	1	FLOW	3938.	2407.	1913.	1422.	973.
			TIME	4.00	4.00	4.00	4.00	4.00

3 COMBINED AT

+ CRfan 32.69 1 FLOW 6245. 3678. 2869. 2088. 1398.
TIME 4.25 4.25 4.25 4.17 4.17

ROUTED TO

+ RCRfan 32.69 1 FLOW 6030. 3535. 2749. 1989. 1320.
TIME 5.42 5.33 5.33 5.33 5.33

HYDROGRAPH AT

+ WCent 9.40 1 FLOW 3829. 2392. 1921. 1452. 1010.
TIME 3.83 3.83 3.83 3.83 3.83

ROUTED TO

+ RCWCent 9.40 1 FLOW 3390. 2085. 1662. 1240. 851.
TIME 4.25 4.25 4.25 4.25 4.25

HYDROGRAPH AT

+ Fplain 10.61 1 FLOW 2566. 1508. 1164. 847. 559.
TIME 4.25 4.25 4.25 4.25 4.25

3 COMBINED AT

+ CFplain 52.71 1 FLOW 8362. 4696. 3588. 2591. 1717.
TIME 5.42 5.42 4.58 4.58 4.50

ROUTED TO

+ RCFplain 52.71 1 FLOW 8271. 4667. 3569. 2573. 1698.
TIME 5.83 5.75 5.17 5.17 5.08

HYDROGRAPH AT

+ SCen 7.56 1 FLOW 2430. 1472. 1159. 856. 577.
TIME 4.00 4.00 4.00 4.00 4.00

HYDROGRAPH AT

+ HVal 11.14 1 FLOW 2806. 1648. 1271. 927. 612.
TIME 4.17 4.25 4.25 4.25 4.25

580

ROUTED TO

+ RHval 11.14 1 FLOW 2590. 1515. 1165. 848. 558.
TIME 5.00 5.00 5.00 5.00 5.00

HYDROGRAPH AT

+ SOct 10.75 1 FLOW 2766. 1669. 1319. 972. 659.
TIME 4.25 4.25 4.25 4.25 4.25

4 COMBINED AT

+ COut 82.15 1 FLOW 12884. 7408. 5705. 4102. 2697.
TIME 5.00 4.92 4.92 4.92 4.83

HYDROGRAPH AT

+ SEast 3.71 1 FLOW 1507. 938. 752. 566. 392.
TIME 3.83 3.83 3.83 3.83 3.83

HYDROGRAPH AT

+ SWest 2.16 1 FLOW 1149. 726. 585. 447. 310.
TIME 3.67 3.67 3.67 3.67 3.67

3 COMBINED AT

+ CTotal 88.02 1 FLOW 13679. 7778. 5927. 4219. 2736.
TIME 5.00 5.00 4.92 4.92 4.83

*** NORMAL END OF HEC-1 ***

NOTE: Flowrates calculated in cfs

```

1*****
*                                     *
* FLOOD HYDROGRAPH PACKAGE (HEC-1) *
*   JUN 1998                         *
*   VERSION 4.1                       *
*                                     *
* RUN DATE 13AUG10 TIME 14:24:53 *
*                                     *
*****
*                                     *
*                                     *
* U.S. ARMY CORPS OF ENGINEERS *
* HYDROLOGIC ENGINEERING CENTER *
*   609 SECOND STREET           *
* DAVIS, CALIFORNIA 95616      *
*   (916) 756-1104             *
*                                     *
*****

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582

```

X X XXXXXXXX XXXXX X
X X X X X XX
X X X X X
XXXXXXXX XXXX X XXXXX X
X X X X X
X X X X X X
X X XXXXXXXX XXXXX XXX

```

THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE.

THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION
NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY,
DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL LOSS RATE:GREEN AND AMPT INFILTRATION
KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

*DIAGRAM

*** FREE ***

```

1 ID *****
2 ID * ..... *
3 ID * : : *
4 ID * : EFFECT OF SPATIAL AND TEMPORAL VARIABILITY : *
5 ID * : OF ANTECEDENT MOISTURE CONTENT ON : *
6 ID * : MODEL-GENERATED RUNOFF : *
7 ID * : FROM AN ARID WATERSHED : *
8 ID * : : *
9 ID * : ..... *
10 ID * : RETURN PERIOD__ 100-YEAR : *
11 ID * : DISTRIBUTION__ 6-HOUR SDN 5 : *
12 ID * : FILENAME_____1_day_Keffx4.h1 : *
13 ID * : DATE_____08/9/10 : *
14 ID * : MODELED BY_____WJM : *
15 ID * : ..... *
16 ID *****
17 ID * : : *
18 ID * : 1. Total watershed area is 88 sq. mi. : *
19 ID * : 2. DARF is 0.62 for area : *
20 ID * : 3. 500 Year Precip. Value is 3.02 in. : *
21 ID * : 4. 500 Year DARF value 0.62 : *
22 ID * : 5. 100 Year DARF value 0.44 : *
23 ID * : 6. 50 Year DARF value 0.38 : *
24 ID * : 7. 25 Year DARF value 0.32 : *
25 ID * : 8. 10 Year DARF Value 0.26 : *
26 ID * : 9. 2 Year DARF Value 0.15 : *
27 ID * : 10. USBR Lag time : *
28 ID * : ..... *
29 ID *****
30 ID
31 IT 5 0000 000 200
32 IO 5

```

33 IN 5 0 0
34 JR PREC 0.62 0.44 0.38 0.32 0.26
35 KK WSage
36 KM White Sage Gap
37 BA 7.859
38 PB 3.02
39 PC 0.000 0.020 0.059 0.080 0.110 0.144 0.150 0.160 0.168 0.171
40 PC 0.180 0.182 0.187 0.190 0.197 0.202 0.210 0.220 0.230 0.241
41 PC 0.250 0.259 0.265 0.280 0.290 0.300 0.305 0.309 0.310 0.317
42 PC 0.321 0.327 0.333 0.346 0.361 0.381 0.408 0.430 0.477 0.514
43 PC 0.561 0.630 0.710 0.720 0.731 0.752 0.779 0.790 0.795 0.804
44 PC 0.810 0.820 0.826 0.840 0.859 0.889 0.910 0.938 0.966 0.970
45 PC 0.974 0.979 0.981 0.983 0.985 0.989 0.990 0.992 0.993 0.996
46 PC 0.997 0.999 1.000
47 KM Ia Deficit Cap Ks IMP
48 LG 0.046 0.271 1.426 0.230 0.855
49 UD 0.60

*

HEC-1 INPUT

PAGE 2

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

50 KK RWsage
51 KM Route WSage through RFan
52 KM N K X
53 RM 12 1.03 0.15

*

54 KK RFan
55 KM Red Alluvial Fan
56 BA 12.565
57 PB 3.02
58 KM Ia Deficit Cap Ks IMP
59 LG 0.038 0.274 1.695 0.264 0.277
60 UD 1.19

584

1

	*							
61	KK	NWest						
62	KM	North west mountains						
63	BA	12.269						
64	PB	3.02						
65	KM	Ia Deficit Cap Ks IMP						
66	LG	0.036 0.266 1.526 0.239 0.552						
67	UD	0.67						
	*							
68	KK	CRfan						
69	KM	Redfan concentration point						
70	KO	2						
71	HC	3						
	*							
72	KK	RCRfan						
73	KM	Route Redfan concentration point						
74	KM	through channel at west side of floodplain						
75	KM	N K X						
76	RM	11 0.94 0.15						
	*							
77	KK	WCent						
78	KM	West central mountains						
79	BA	9.403						
80	PB	3.02						
81	KM	Ia Deficit Cap Ks IMP						
82	LG	0.042 0.275 1.494 0.239 0.407						
83	UD	0.46						
	*							
84	KK	RCWCent						
85	KM	Route CWCent along west side of floodplain						
86	KM	N K X						
87	RM	5 0.45 0.15						

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

88 KK Fplain
 89 KM Floodplain
 90 BA 10.614
 91 PB 3.02
 92 KM Ia Deficit Cap Ks IMP
 93 LG 0.043 0.304 1.482 0.271 0.245
 94 UD 0.92

*

95 KK CFplain
 96 KO 2
 97 HC 3

*

98 KKRCFplain
 99 KM Route Flood plain concentration point
 100 KM N K X
 101 RM 5 0.44 0.15

*

102 KK SCen
 103 KM South central mountains
 104 BA 7.562
 105 PB 3.02
 106 KM Ia Deficit Cap Ks IMP
 107 LG 0.041 0.292 1.547 0.258 0.247
 108 UD 0.64

*

109 KK HVal
 110 KM High valley on east side of watershed

111 BA 11.137
112 PB 3.02
113 KM Ia Deficit Cap Ks IMP
114 LG 0.049 0.287 1.580 0.278 0.630
115 UD 0.86
116 KO 2

*

117 KK RHval
118 KM Route High Valley basin
119 KM N K X
120 RM 9 0.75 0.15

*

121 KK SOct
122 KM South octagon area and east mountains
123 BA 10.746
124 PB 3.02
125 KM Ia Deficit Cap Ks IMP
126 LG 0.039 0.266 1.481 0.234 0.246
127 UD 0.92

*

1

HEC-1 INPUT

PAGE 4

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

128 KK COut
129 KO 2
130 HC 4

*

131 KK SEast
132 KM Southeast adjacent basin
133 BA 3.707
134 PB 3.02
135 KM Ia Deficit Cap Ks IMP

587

136 LG 0.044 0.277 1.559 0.248 0.653
 137 UD 0.45

*

138 KK SWest
 139 KM South west adjacent basin
 140 BA 2.156
 141 PB 3.02
 142 KM Ia Deficit Cap Ks IMP
 143 LG 0.039 0.296 1.674 0.274 0.680
 144 UD 0.25

*

145 KK CTotal
 146 KM KO 2
 147 HC 3

*

148 ZZ

888

1

SCHEMATIC DIAGRAM OF STREAM NETWORK

INPUT

LINE (V) ROUTING (--->) DIVERSION OR PUMP FLOW

NO. (.) CONNECTOR (<---) RETURN OF DIVERTED OR PUMPED FLOW

35 WSage
 V
 V
 50 RWsage
 .
 .
 54 . RFan
 .
 .
 61 . . NWest
 .
 .
 .

68	CRfan.....			
	V			
	V			
72	RCRfan			
	.			
	.			
77	. WCent			
	V			
	V			
84	. RCWCent			
	.			
	.			
88	. . Fplain			
	.			
	.			
95	CFplain.....			
	V			
	V			
98	RCFplain			
	.			
	.			
102	. SCen			
	.			
	.			
109	. . HVal			
	V			
	V			
117	. . RHval			
	.			
	.			
121	. . . SOct			
	.			
	.			
128	COut.....			
	.			
	.			
131	. SEast			

138 . . . SWest

145 CTotal.....

(***) RUNOFF ALSO COMPUTED AT THIS LOCATION

```

*****
*                                     *
* FLOOD HYDROGRAPH PACKAGE (HEC-1) *   * U.S. ARMY CORPS OF ENGINEERS *
*   JUN 1998                         *   * HYDROLOGIC ENGINEERING CENTER *
*   VERSION 4.1                       *   * 609 SECOND STREET *
*                                     *   * DAVIS, CALIFORNIA 95616 *
* RUN DATE 13AUG10 TIME 14:24:53 *   * (916) 756-1104 *
*                                     *
*****

```

590

```

*****
*                                     *
* ..... *
* : *
* : EFFECT OF SPATIAL AND TEMPORAL VARIABILITY : *
* : OF ANTECEDENT MOISTURE CONTENT ON : *
* : MODEL-GENERATED RUNOFF : *
* : FROM AN ARID WATERSHED : *
* : : *
* ..... *
* : RETURN PERIOD _ _ 100-YEAR : *
* : DISTRIBUTION _ _ _ 6-HOUR SDN 5 : *
* : FILENAME _ _ _ _ 1_day_Keffx4.h1 : *
* : DATE _ _ _ _ 08/9/10 : *
* : MODELED BY _ _ _ _ WJM : *
* ..... *

```

```

*****
* :                               : *
* : 1. Total watershed area is 88 sq. mi.      : *
* : 2. DARF is 0.62 for area                   : *
* : 3. 500 Year Precip. Value is 3.02 in.     : *
* : 4. 500 Year DARF value 0.62               : *
* : 5. 100 Year DARF value 0.44               : *
* : 6. 50 Year DARF value 0.38                : *
* : 7. 25 Year DARF value 0.32                : *
* : 8. 10 Year DARF Value 0.26                : *
* : 9. 2 Year DARF Value 0.15                 : *
* :10. USBR Lag time                           : *
* : .....: *
*****

```

591

```

32 IO  OUTPUT CONTROL VARIABLES
      IPRNT    5 PRINT CONTROL
      IPLOT    0 PLOT CONTROL
      QSCAL    0. HYDROGRAPH PLOT SCALE

IT     HYDROGRAPH TIME DATA
      NMIN     5 MINUTES IN COMPUTATION INTERVAL
      IDATE    1 00 0 STARTING DATE
      ITIME    0000 STARTING TIME
      NQ       200 NUMBER OF HYDROGRAPH ORDINATES
      NDDATE   1 0 ENDING DATE
      NDTIME   1635 ENDING TIME
      ICENT    19 CENTURY MARK

```

```

COMPUTATION INTERVAL .08 HOURS
TOTAL TIME BASE 16.58 HOURS

```

```

ENGLISH UNITS
DRAINAGE AREA    SQUARE MILES
PRECIPITATION DEPTH  INCHES
LENGTH, ELEVATION  FEET

```

FLOW CUBIC FEET PER SECOND
STORAGE VOLUME ACRE-FEET
SURFACE AREA ACRES
TEMPERATURE DEGREES FAHRENHEIT

JP MULTI-PLAN OPTION
NPLAN 1 NUMBER OF PLANS

JR MULTI-RATIO OPTION
RATIOS OF PRECIPITATION
.62 .44 .38 .32 .26

592

* *
68 KK * CRfan *
* *

70 KO OUTPUT CONTROL VARIABLES
IPRNT 2 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE

71 HC HYDROGRAPH COMBINATION
ICOMP 3 NUMBER OF HYDROGRAPHS TO COMBINE

**

HYDROGRAPH AT STATION CRfan
 SUM OF 3 HYDROGRAPHS
 PLAN 1, RATIO = .62

**

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	0000	1	0.	1	0410	51	4843.	1	0820	101	50.	1	1230	151	0.				
1	0005	2	0.	1	0415	52	4867.	1	0825	102	44.	1	1235	152	0.				
1	0010	3	0.	1	0420	53	4835.	1	0830	103	39.	1	1240	153	0.				
1	0015	4	1.	1	0425	54	4773.	1	0835	104	35.	1	1245	154	0.				
1	0020	5	2.	1	0430	55	4686.	1	0840	105	31.	1	1250	155	0.				
1	0025	6	5.	1	0435	56	4629.	1	0845	106	27.	1	1255	156	0.				
1	0030	7	10.	1	0440	57	4626.	1	0850	107	23.	1	1300	157	0.				
1	0035	8	16.	1	0445	58	4648.	1	0855	108	20.	1	1305	158	0.				
1	0040	9	23.	1	0450	59	4669.	1	0900	109	18.	1	1310	159	0.				
1	0045	10	32.	1	0455	60	4681.	1	0905	110	15.	1	1315	160	0.				
1	0050	11	39.	1	0500	61	4655.	1	0910	111	13.	1	1320	161	0.				
1	0055	12	44.	1	0505	62	4578.	1	0915	112	11.	1	1325	162	0.				
1	0100	13	47.	1	0510	63	4436.	1	0920	113	9.	1	1330	163	0.				
1	0105	14	48.	1	0515	64	4224.	1	0925	114	7.	1	1335	164	0.				
1	0110	15	47.	1	0520	65	3948.	1	0930	115	6.	1	1340	165	0.				
1	0115	16	46.	1	0525	66	3641.	1	0935	116	5.	1	1345	166	0.				
1	0120	17	45.	1	0530	67	3329.	1	0940	117	4.	1	1350	167	0.				
1	0125	18	44.	1	0535	68	3021.	1	0945	118	4.	1	1355	168	0.				
1	0130	19	44.	1	0540	69	2730.	1	0950	119	3.	1	1400	169	0.				
1	0135	20	45.	1	0545	70	2471.	1	0955	120	3.	1	1405	170	0.				
1	0140	21	48.	1	0550	71	2248.	1	1000	121	3.	1	1410	171	0.				
1	0145	22	50.	1	0555	72	2062.	1	1005	122	2.	1	1415	172	0.				
1	0150	23	53.	1	0600	73	1913.	1	1010	123	2.	1	1420	173	0.				
1	0155	24	54.	1	0605	74	1782.	1	1015	124	2.	1	1425	174	0.				
1	0200	25	54.	1	0610	75	1660.	1	1020	125	1.	1	1430	175	0.				
1	0205	26	53.	1	0615	76	1541.	1	1025	126	1.	1	1435	176	0.				
1	0210	27	51.	1	0620	77	1417.	1	1030	127	1.	1	1440	177	0.				

593

1	0215	28	48.	*	1	0625	78	1289.	*	1	1035	128	1.	*	1	1445	178	0.
1	0220	29	45.	*	1	0630	79	1157.	*	1	1040	129	0.	*	1	1450	179	0.
1	0225	30	41.	*	1	0635	80	1024.	*	1	1045	130	0.	*	1	1455	180	0.
1	0230	31	38.	*	1	0640	81	896.	*	1	1050	131	0.	*	1	1500	181	0.
1	0235	32	35.	*	1	0645	82	777.	*	1	1055	132	0.	*	1	1505	182	0.
1	0240	33	32.	*	1	0650	83	669.	*	1	1100	133	0.	*	1	1510	183	0.
1	0245	34	29.	*	1	0655	84	575.	*	1	1105	134	0.	*	1	1515	184	0.
1	0250	35	27.	*	1	0700	85	494.	*	1	1110	135	0.	*	1	1520	185	0.
1	0255	36	27.	*	1	0705	86	424.	*	1	1115	136	0.	*	1	1525	186	0.
1	0300	37	38.	*	1	0710	87	364.	*	1	1120	137	0.	*	1	1530	187	0.
1	0305	38	63.	*	1	0715	88	313.	*	1	1125	138	0.	*	1	1535	188	0.
1	0310	39	126.	*	1	0720	89	269.	*	1	1130	139	0.	*	1	1540	189	0.
1	0315	40	245.	*	1	0725	90	231.	*	1	1135	140	0.	*	1	1545	190	0.
1	0320	41	438.	*	1	0730	91	199.	*	1	1140	141	0.	*	1	1550	191	0.
1	0325	42	738.	*	1	0735	92	172.	*	1	1145	142	0.	*	1	1555	192	0.
1	0330	43	1185.	*	1	0740	93	149.	*	1	1150	143	0.	*	1	1600	193	0.
1	0335	44	1738.	*	1	0745	94	129.	*	1	1155	144	0.	*	1	1605	194	0.
1	0340	45	2354.	*	1	0750	95	112.	*	1	1200	145	0.	*	1	1610	195	0.
1	0345	46	3005.	*	1	0755	96	97.	*	1	1205	146	0.	*	1	1615	196	0.
1	0350	47	3632.	*	1	0800	97	84.	*	1	1210	147	0.	*	1	1620	197	0.
1	0355	48	4137.	*	1	0805	98	74.	*	1	1215	148	0.	*	1	1625	198	0.
1	0400	49	4489.	*	1	0810	99	64.	*	1	1220	149	0.	*	1	1630	199	0.
1	0405	50	4719.	*	1	0815	100	56.	*	1	1225	150	0.	*	1	1635	200	0.

**

PEAK FLOW + (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	16.58-HR
	(CFS)				
+ 4867.	4.25	1857.	679.	679.	679.
	(INCHES)	.528	.533	.533	.533
	(AC-FT)	921.	930.	930.	930.

CUMULATIVE AREA = 32.69 SQ MI

**

HYDROGRAPH AT STATION CRfan
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .44

**

595

		*		*		*		*		*		*		*		*		*		*
DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	
1	0000	1	0.	* 1	0410	51	2371.	* 1	0820	101	17.	* 1	1230	151	0.					
1	0005	2	0.	* 1	0415	52	2365.	* 1	0825	102	15.	* 1	1235	152	0.					
1	0010	3	0.	* 1	0420	53	2332.	* 1	0830	103	13.	* 1	1240	153	0.					
1	0015	4	1.	* 1	0425	54	2284.	* 1	0835	104	12.	* 1	1245	154	0.					
1	0020	5	2.	* 1	0430	55	2226.	* 1	0840	105	10.	* 1	1250	155	0.					
1	0025	6	3.	* 1	0435	56	2190.	* 1	0845	106	9.	* 1	1255	156	0.					
1	0030	7	4.	* 1	0440	57	2188.	* 1	0850	107	8.	* 1	1300	157	0.					
1	0035	8	6.	* 1	0445	58	2199.	* 1	0855	108	7.	* 1	1305	158	0.					
1	0040	9	8.	* 1	0450	59	2204.	* 1	0900	109	6.	* 1	1310	159	0.					
1	0045	10	9.	* 1	0455	60	2197.	* 1	0905	110	5.	* 1	1315	160	0.					
1	0050	11	10.	* 1	0500	61	2162.	* 1	0910	111	4.	* 1	1320	161	0.					
1	0055	12	11.	* 1	0505	62	2096.	* 1	0915	112	3.	* 1	1325	162	0.					
1	0100	13	12.	* 1	0510	63	1997.	* 1	0920	113	2.	* 1	1330	163	0.					
1	0105	14	12.	* 1	0515	64	1866.	* 1	0925	114	2.	* 1	1335	164	0.					
1	0110	15	13.	* 1	0520	65	1708.	* 1	0930	115	1.	* 1	1340	165	0.					
1	0115	16	13.	* 1	0525	66	1540.	* 1	0935	116	1.	* 1	1345	166	0.					
1	0120	17	13.	* 1	0530	67	1378.	* 1	0940	117	1.	* 1	1350	167	0.					
1	0125	18	14.	* 1	0535	68	1225.	* 1	0945	118	1.	* 1	1355	168	0.					
1	0130	19	14.	* 1	0540	69	1085.	* 1	0950	119	1.	* 1	1400	169	0.					
1	0135	20	15.	* 1	0545	70	962.	* 1	0955	120	1.	* 1	1405	170	0.					
1	0140	21	16.	* 1	0550	71	857.	* 1	1000	121	1.	* 1	1410	171	0.					

1	0145	22	17.	*	1	0555	72	770.	*	1	1005	122	1.	*	1	1415	172	0.
1	0150	23	17.	*	1	0600	73	700.	*	1	1010	123	0.	*	1	1420	173	0.
1	0155	24	18.	*	1	0605	74	641.	*	1	1015	124	0.	*	1	1425	174	0.
1	0200	25	18.	*	1	0610	75	588.	*	1	1020	125	0.	*	1	1430	175	0.
1	0205	26	18.	*	1	0615	76	540.	*	1	1025	126	0.	*	1	1435	176	0.
1	0210	27	17.	*	1	0620	77	492.	*	1	1030	127	0.	*	1	1440	177	0.
1	0215	28	17.	*	1	0625	78	445.	*	1	1035	128	0.	*	1	1445	178	0.
1	0220	29	17.	*	1	0630	79	399.	*	1	1040	129	0.	*	1	1450	179	0.
1	0225	30	16.	*	1	0635	80	352.	*	1	1045	130	0.	*	1	1455	180	0.
1	0230	31	16.	*	1	0640	81	308.	*	1	1050	131	0.	*	1	1500	181	0.
1	0235	32	15.	*	1	0645	82	267.	*	1	1055	132	0.	*	1	1505	182	0.
1	0240	33	15.	*	1	0650	83	230.	*	1	1100	133	0.	*	1	1510	183	0.
1	0245	34	14.	*	1	0655	84	197.	*	1	1105	134	0.	*	1	1515	184	0.
1	0250	35	14.	*	1	0700	85	169.	*	1	1110	135	0.	*	1	1520	185	0.
1	0255	36	14.	*	1	0705	86	144.	*	1	1115	136	0.	*	1	1525	186	0.
1	0300	37	14.	*	1	0710	87	124.	*	1	1120	137	0.	*	1	1530	187	0.
1	0305	38	14.	*	1	0715	88	106.	*	1	1125	138	0.	*	1	1535	188	0.
1	0310	39	27.	*	1	0720	89	91.	*	1	1130	139	0.	*	1	1540	189	0.
1	0315	40	58.	*	1	0725	90	78.	*	1	1135	140	0.	*	1	1545	190	0.
1	0320	41	119.	*	1	0730	91	67.	*	1	1140	141	0.	*	1	1550	191	0.
1	0325	42	235.	*	1	0735	92	58.	*	1	1145	142	0.	*	1	1555	192	0.
1	0330	43	440.	*	1	0740	93	50.	*	1	1150	143	0.	*	1	1600	193	0.
1	0335	44	713.	*	1	0745	94	43.	*	1	1155	144	0.	*	1	1605	194	0.
1	0340	45	1034.	*	1	0750	95	37.	*	1	1200	145	0.	*	1	1610	195	0.
1	0345	46	1388.	*	1	0755	96	32.	*	1	1205	146	0.	*	1	1615	196	0.
1	0350	47	1736.	*	1	0800	97	28.	*	1	1210	147	0.	*	1	1620	197	0.
1	0355	48	2014.	*	1	0805	98	24.	*	1	1215	148	0.	*	1	1625	198	0.
1	0400	49	2205.	*	1	0810	99	21.	*	1	1220	149	0.	*	1	1630	199	0.
1	0405	50	2321.	*	1	0815	100	19.	*	1	1225	150	0.	*	1	1635	200	0.

**

PEAK FLOW TIME MAXIMUM AVERAGE FLOW
+ (CFS) (HR) 6-HR 24-HR 72-HR 16.58-HR

(CFS)
 + 2371. 4.17 818. 298. 298. 298.
 (INCHES) .233 .234 .234 .234
 (AC-FT) 406. 408. 408. 408.

CUMULATIVE AREA = 32.69 SQ MI

 **

HYDROGRAPH AT STATION CRfan
 SUM OF 3 HYDROGRAPHS
 PLAN 1, RATIO = .38

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597

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	0000	1	0.	* 1	0410	51	1632.	* 1	0820	101	8.	* 1	1230	151	0.				
1	0005	2	0.	* 1	0415	52	1623.	* 1	0825	102	7.	* 1	1235	152	0.				
1	0010	3	0.	* 1	0420	53	1596.	* 1	0830	103	6.	* 1	1240	153	0.				
1	0015	4	1.	* 1	0425	54	1560.	* 1	0835	104	5.	* 1	1245	154	0.				
1	0020	5	1.	* 1	0430	55	1516.	* 1	0840	105	5.	* 1	1250	155	0.				
1	0025	6	2.	* 1	0435	56	1488.	* 1	0845	106	4.	* 1	1255	156	0.				
1	0030	7	4.	* 1	0440	57	1488.	* 1	0850	107	4.	* 1	1300	157	0.				
1	0035	8	5.	* 1	0445	58	1496.	* 1	0855	108	3.	* 1	1305	158	0.				
1	0040	9	7.	* 1	0450	59	1499.	* 1	0900	109	3.	* 1	1310	159	0.				
1	0045	10	8.	* 1	0455	60	1489.	* 1	0905	110	2.	* 1	1315	160	0.				
1	0050	11	9.	* 1	0500	61	1455.	* 1	0910	111	2.	* 1	1320	161	0.				
1	0055	12	10.	* 1	0505	62	1396.	* 1	0915	112	1.	* 1	1325	162	0.				
1	0100	13	10.	* 1	0510	63	1313.	* 1	0920	113	1.	* 1	1330	163	0.				
1	0105	14	11.	* 1	0515	64	1207.	* 1	0925	114	1.	* 1	1335	164	0.				
1	0110	15	11.	* 1	0520	65	1085.	* 1	0930	115	0.	* 1	1340	165	0.				

1	0115	16	11.	*	1	0525	66	959.	*	1	0935	116	0.	*	1	1345	166	0.
1	0120	17	11.	*	1	0530	67	841.	*	1	0940	117	0.	*	1	1350	167	0.
1	0125	18	12.	*	1	0535	68	732.	*	1	0945	118	0.	*	1	1355	168	0.
1	0130	19	12.	*	1	0540	69	635.	*	1	0950	119	0.	*	1	1400	169	0.
1	0135	20	13.	*	1	0545	70	552.	*	1	0955	120	0.	*	1	1405	170	0.
1	0140	21	14.	*	1	0550	71	482.	*	1	1000	121	0.	*	1	1410	171	0.
1	0145	22	14.	*	1	0555	72	424.	*	1	1005	122	0.	*	1	1415	172	0.
1	0150	23	15.	*	1	0600	73	377.	*	1	1010	123	0.	*	1	1420	173	0.
1	0155	24	15.	*	1	0605	74	338.	*	1	1015	124	0.	*	1	1425	174	0.
1	0200	25	15.	*	1	0610	75	304.	*	1	1020	125	0.	*	1	1430	175	0.
1	0205	26	15.	*	1	0615	76	274.	*	1	1025	126	0.	*	1	1435	176	0.
1	0210	27	15.	*	1	0620	77	246.	*	1	1030	127	0.	*	1	1440	177	0.
1	0215	28	15.	*	1	0625	78	220.	*	1	1035	128	0.	*	1	1445	178	0.
1	0220	29	14.	*	1	0630	79	195.	*	1	1040	129	0.	*	1	1450	179	0.
1	0225	30	14.	*	1	0635	80	171.	*	1	1045	130	0.	*	1	1455	180	0.
1	0230	31	13.	*	1	0640	81	149.	*	1	1050	131	0.	*	1	1500	181	0.
1	0235	32	13.	*	1	0645	82	129.	*	1	1055	132	0.	*	1	1505	182	0.
1	0240	33	13.	*	1	0650	83	110.	*	1	1100	133	0.	*	1	1510	183	0.
1	0245	34	12.	*	1	0655	84	94.	*	1	1105	134	0.	*	1	1515	184	0.
1	0250	35	12.	*	1	0700	85	80.	*	1	1110	135	0.	*	1	1520	185	0.
1	0255	36	12.	*	1	0705	86	69.	*	1	1115	136	0.	*	1	1525	186	0.
1	0300	37	12.	*	1	0710	87	59.	*	1	1120	137	0.	*	1	1530	187	0.
1	0305	38	12.	*	1	0715	88	50.	*	1	1125	138	0.	*	1	1535	188	0.
1	0310	39	20.	*	1	0720	89	43.	*	1	1130	139	0.	*	1	1540	189	0.
1	0315	40	37.	*	1	0725	90	37.	*	1	1135	140	0.	*	1	1545	190	0.
1	0320	41	71.	*	1	0730	91	31.	*	1	1140	141	0.	*	1	1550	191	0.
1	0325	42	143.	*	1	0735	92	27.	*	1	1145	142	0.	*	1	1555	192	0.
1	0330	43	276.	*	1	0740	93	23.	*	1	1150	143	0.	*	1	1600	193	0.
1	0335	44	460.	*	1	0745	94	20.	*	1	1155	144	0.	*	1	1605	194	0.
1	0340	45	681.	*	1	0750	95	17.	*	1	1200	145	0.	*	1	1610	195	0.
1	0345	46	932.	*	1	0755	96	15.	*	1	1205	146	0.	*	1	1615	196	0.
1	0350	47	1183.	*	1	0800	97	13.	*	1	1210	147	0.	*	1	1620	197	0.
1	0355	48	1384.	*	1	0805	98	11.	*	1	1215	148	0.	*	1	1625	198	0.
1	0400	49	1520.	*	1	0810	99	10.	*	1	1220	149	0.	*	1	1630	199	0.
1	0405	50	1601.	*	1	0815	100	9.	*	1	1225	150	0.	*	1	1635	200	0.

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PEAK FLOW (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	16.58-HR
+ 1632.	4.17	528.	193.	193.	193.
	(INCHES)	.150	.151	.151	.151
	(AC-FT)	262.	264.	264.	264.

CUMULATIVE AREA = 32.69 SQ MI

**

599

HYDROGRAPH AT STATION CRfan
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .32

**

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	0000	1	0.	0410	1	0000	1	0.	0410	1	0000	1	0.	0410
1	0005	2	0.	0415	1	0005	2	0.	0415	1	0005	2	0.	0415
1	0010	3	0.	0420	1	0010	3	0.	0420	1	0010	3	0.	0420
1	0015	4	1.	0425	1	0015	4	1.	0425	1	0015	4	1.	0425
1	0020	5	1.	0430	1	0020	5	1.	0430	1	0020	5	1.	0430
1	0025	6	2.	0435	1	0025	6	2.	0435	1	0025	6	2.	0435
1	0030	7	3.	0440	1	0030	7	3.	0440	1	0030	7	3.	0440
1	0035	8	4.	0445	1	0035	8	4.	0445	1	0035	8	4.	0445

1	0040	9	6.	*	1	0450	59	873.	*	1	0900	109	2.	*	1	1310	159	0.
1	0045	10	7.	*	1	0455	60	866.	*	1	0905	110	1.	*	1	1315	160	0.
1	0050	11	8.	*	1	0500	61	845.	*	1	0910	111	1.	*	1	1320	161	0.
1	0055	12	8.	*	1	0505	62	807.	*	1	0915	112	1.	*	1	1325	162	0.
1	0100	13	9.	*	1	0510	63	755.	*	1	0920	113	1.	*	1	1330	163	0.
1	0105	14	9.	*	1	0515	64	690.	*	1	0925	114	0.	*	1	1335	164	0.
1	0110	15	9.	*	1	0520	65	615.	*	1	0930	115	0.	*	1	1340	165	0.
1	0115	16	9.	*	1	0525	66	539.	*	1	0935	116	0.	*	1	1345	166	0.
1	0120	17	10.	*	1	0530	67	468.	*	1	0940	117	0.	*	1	1350	167	0.
1	0125	18	10.	*	1	0535	68	403.	*	1	0945	118	0.	*	1	1355	168	0.
1	0130	19	10.	*	1	0540	69	346.	*	1	0950	119	0.	*	1	1400	169	0.
1	0135	20	11.	*	1	0545	70	295.	*	1	0955	120	0.	*	1	1405	170	0.
1	0140	21	12.	*	1	0550	71	253.	*	1	1000	121	0.	*	1	1410	171	0.
1	0145	22	12.	*	1	0555	72	217.	*	1	1005	122	0.	*	1	1415	172	0.
1	0150	23	12.	*	1	0600	73	186.	*	1	1010	123	0.	*	1	1420	173	0.
1	0155	24	13.	*	1	0605	74	160.	*	1	1015	124	0.	*	1	1425	174	0.
1	0200	25	13.	*	1	0610	75	138.	*	1	1020	125	0.	*	1	1430	175	0.
1	0205	26	13.	*	1	0615	76	118.	*	1	1025	126	0.	*	1	1435	176	0.
1	0210	27	13.	*	1	0620	77	102.	*	1	1030	127	0.	*	1	1440	177	0.
1	0215	28	12.	*	1	0625	78	88.	*	1	1035	128	0.	*	1	1445	178	0.
1	0220	29	12.	*	1	0630	79	77.	*	1	1040	129	0.	*	1	1450	179	0.
1	0225	30	12.	*	1	0635	80	66.	*	1	1045	130	0.	*	1	1455	180	0.
1	0230	31	11.	*	1	0640	81	57.	*	1	1050	131	0.	*	1	1500	181	0.
1	0235	32	11.	*	1	0645	82	49.	*	1	1055	132	0.	*	1	1505	182	0.
1	0240	33	11.	*	1	0650	83	42.	*	1	1100	133	0.	*	1	1510	183	0.
1	0245	34	10.	*	1	0655	84	36.	*	1	1105	134	0.	*	1	1515	184	0.
1	0250	35	10.	*	1	0700	85	31.	*	1	1110	135	0.	*	1	1520	185	0.
1	0255	36	10.	*	1	0705	86	27.	*	1	1115	136	0.	*	1	1525	186	0.
1	0300	37	10.	*	1	0710	87	24.	*	1	1120	137	0.	*	1	1530	187	0.
1	0305	38	10.	*	1	0715	88	21.	*	1	1125	138	0.	*	1	1535	188	0.
1	0310	39	13.	*	1	0720	89	18.	*	1	1130	139	0.	*	1	1540	189	0.
1	0315	40	17.	*	1	0725	90	16.	*	1	1135	140	0.	*	1	1545	190	0.
1	0320	41	27.	*	1	0730	91	14.	*	1	1140	141	0.	*	1	1550	191	0.
1	0325	42	55.	*	1	0735	92	12.	*	1	1145	142	0.	*	1	1555	192	0.
1	0330	43	120.	*	1	0740	93	10.	*	1	1150	143	0.	*	1	1600	193	0.
1	0335	44	217.	*	1	0745	94	9.	*	1	1155	144	0.	*	1	1605	194	0.
1	0340	45	342.	*	1	0750	95	8.	*	1	1200	145	0.	*	1	1610	195	0.

1	0345	46	494.	*	1	0755	96	7.	*	1	1205	146	0.	*	1	1615	196	0.
1	0350	47	653.	*	1	0800	97	6.	*	1	1210	147	0.	*	1	1620	197	0.
1	0355	48	785.	*	1	0805	98	5.	*	1	1215	148	0.	*	1	1625	198	0.
1	0400	49	876.	*	1	0810	99	5.	*	1	1220	149	0.	*	1	1630	199	0.
1	0405	50	932.	*	1	0815	100	4.	*	1	1225	150	0.	*	1	1635	200	0.

**

+ (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	16.58-HR
+ 956.	4.17	295.	108.	108.	108.
	(INCHES)	.084	.085	.085	.085
	(AC-FT)	146.	148.	148.	148.

CUMULATIVE AREA = 32.69 SQ MI

101

**

HYDROGRAPH AT STATION CRfan
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .26

**

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	0000	1	0.	*	1	0410	51	449.	*	1	0820	101	2.	*	1	1230	151	0.	
1	0005	2	0.	*	1	0415	52	448.	*	1	0825	102	2.	*	1	1235	152	0.	

1	0010	3	0.	*	1	0420	53	440.	*	1	0830	103	1.	*	1	1240	153	0.
1	0015	4	0.	*	1	0425	54	428.	*	1	0835	104	1.	*	1	1245	154	0.
1	0020	5	1.	*	1	0430	55	410.	*	1	0840	105	1.	*	1	1250	155	0.
1	0025	6	2.	*	1	0435	56	397.	*	1	0845	106	1.	*	1	1255	156	0.
1	0030	7	3.	*	1	0440	57	396.	*	1	0850	107	1.	*	1	1300	157	0.
1	0035	8	3.	*	1	0445	58	400.	*	1	0855	108	1.	*	1	1305	158	0.
1	0040	9	5.	*	1	0450	59	404.	*	1	0900	109	1.	*	1	1310	159	0.
1	0045	10	5.	*	1	0455	60	406.	*	1	0905	110	1.	*	1	1315	160	0.
1	0050	11	6.	*	1	0500	61	400.	*	1	0910	111	0.	*	1	1320	161	0.
1	0055	12	7.	*	1	0505	62	386.	*	1	0915	112	0.	*	1	1325	162	0.
1	0100	13	7.	*	1	0510	63	365.	*	1	0920	113	0.	*	1	1330	163	0.
1	0105	14	7.	*	1	0515	64	336.	*	1	0925	114	0.	*	1	1335	164	0.
1	0110	15	7.	*	1	0520	65	302.	*	1	0930	115	0.	*	1	1340	165	0.
1	0115	16	8.	*	1	0525	66	266.	*	1	0935	116	0.	*	1	1345	166	0.
1	0120	17	8.	*	1	0530	67	232.	*	1	0940	117	0.	*	1	1350	167	0.
1	0125	18	8.	*	1	0535	68	201.	*	1	0945	118	0.	*	1	1355	168	0.
1	0130	19	8.	*	1	0540	69	173.	*	1	0950	119	0.	*	1	1400	169	0.
1	0135	20	9.	*	1	0545	70	148.	*	1	0955	120	0.	*	1	1405	170	0.
1	0140	21	9.	*	1	0550	71	127.	*	1	1000	121	0.	*	1	1410	171	0.
1	0145	22	10.	*	1	0555	72	109.	*	1	1005	122	0.	*	1	1415	172	0.
1	0150	23	10.	*	1	0600	73	94.	*	1	1010	123	0.	*	1	1420	173	0.
1	0155	24	10.	*	1	0605	74	81.	*	1	1015	124	0.	*	1	1425	174	0.
1	0200	25	10.	*	1	0610	75	70.	*	1	1020	125	0.	*	1	1430	175	0.
1	0205	26	10.	*	1	0615	76	60.	*	1	1025	126	0.	*	1	1435	176	0.
1	0210	27	10.	*	1	0620	77	52.	*	1	1030	127	0.	*	1	1440	177	0.
1	0215	28	10.	*	1	0625	78	45.	*	1	1035	128	0.	*	1	1445	178	0.
1	0220	29	10.	*	1	0630	79	39.	*	1	1040	129	0.	*	1	1450	179	0.
1	0225	30	10.	*	1	0635	80	34.	*	1	1045	130	0.	*	1	1455	180	0.
1	0230	31	9.	*	1	0640	81	29.	*	1	1050	131	0.	*	1	1500	181	0.
1	0235	32	9.	*	1	0645	82	25.	*	1	1055	132	0.	*	1	1505	182	0.
1	0240	33	9.	*	1	0650	83	22.	*	1	1100	133	0.	*	1	1510	183	0.
1	0245	34	8.	*	1	0655	84	18.	*	1	1105	134	0.	*	1	1515	184	0.
1	0250	35	8.	*	1	0700	85	16.	*	1	1110	135	0.	*	1	1520	185	0.
1	0255	36	8.	*	1	0705	86	14.	*	1	1115	136	0.	*	1	1525	186	0.
1	0300	37	8.	*	1	0710	87	12.	*	1	1120	137	0.	*	1	1530	187	0.
1	0305	38	8.	*	1	0715	88	11.	*	1	1125	138	0.	*	1	1535	188	0.
1	0310	39	9.	*	1	0720	89	9.	*	1	1130	139	0.	*	1	1540	189	0.

1	0315	40	9.	*	1	0725	90	8.	*	1	1135	140	0.	*	1	1545	190	0.
1	0320	41	10.	*	1	0730	91	7.	*	1	1140	141	0.	*	1	1550	191	0.
1	0325	42	17.	*	1	0735	92	6.	*	1	1145	142	0.	*	1	1555	192	0.
1	0330	43	42.	*	1	0740	93	5.	*	1	1150	143	0.	*	1	1600	193	0.
1	0335	44	82.	*	1	0745	94	4.	*	1	1155	144	0.	*	1	1605	194	0.
1	0340	45	137.	*	1	0750	95	4.	*	1	1200	145	0.	*	1	1610	195	0.
1	0345	46	210.	*	1	0755	96	3.	*	1	1205	146	0.	*	1	1615	196	0.
1	0350	47	290.	*	1	0800	97	3.	*	1	1210	147	0.	*	1	1620	197	0.
1	0355	48	358.	*	1	0805	98	3.	*	1	1215	148	0.	*	1	1625	198	0.
1	0400	49	406.	*	1	0810	99	2.	*	1	1220	149	0.	*	1	1630	199	0.
1	0405	50	435.	*	1	0815	100	2.	*	1	1225	150	0.	*	1	1635	200	0.

**

603	+ (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	16.58-HR
		(CFS)				
	+ 449.	4.17	140.	51.	51.	51.
		(INCHES)	.040	.040	.040	.040
		(AC-FT)	69.	70.	70.	70.

CUMULATIVE AREA = 32.69 SQ MI

*
95 KK * CFplain *
*

96 KO OUTPUT CONTROL VARIABLES
 IPRNT 2 PRINT CONTROL
 IPLOT 0 PLOT CONTROL
 QSCAL 0. HYDROGRAPH PLOT SCALE

97 HC HYDROGRAPH COMBINATION
 ICOMP 3 NUMBER OF HYDROGRAPHS TO COMBINE

 **

HYDROGRAPH AT STATION CFplain
 SUM OF 3 HYDROGRAPHS
 PLAN 1, RATIO = .62

 **

604

* DA MON HRMN ORD				FLOW	* DA MON HRMN ORD				FLOW	* DA MON HRMN ORD				FLOW
1	0000	1	0.	* 1 0410 51	5070.	* 1 0820 101	273.	* 1 1230 151	0.					
1	0005	2	0.	* 1 0415 52	5499.	* 1 0825 102	235.	* 1 1235 152	0.					
1	0010	3	0.	* 1 0420 53	5788.	* 1 0830 103	203.	* 1 1240 153	0.					
1	0015	4	0.	* 1 0425 54	5961.	* 1 0835 104	175.	* 1 1245 154	0.					
1	0020	5	0.	* 1 0430 55	6047.	* 1 0840 105	152.	* 1 1250 155	0.					
1	0025	6	1.	* 1 0435 56	6081.	* 1 0845 106	131.	* 1 1255 156	0.					
1	0030	7	1.	* 1 0440 57	6098.	* 1 0850 107	114.	* 1 1300 157	0.					
1	0035	8	2.	* 1 0445 58	6107.	* 1 0855 108	99.	* 1 1305 158	0.					
1	0040	9	4.	* 1 0450 59	6108.	* 1 0900 109	86.	* 1 1310 159	0.					
1	0045	10	7.	* 1 0455 60	6107.	* 1 0905 110	75.	* 1 1315 160	0.					
1	0050	11	11.	* 1 0500 61	6120.	* 1 0910 111	65.	* 1 1320 161	0.					
1	0055	12	16.	* 1 0505 62	6157.	* 1 0915 112	57.	* 1 1325 162	0.					

1	0100	13	22.	*	1	0510	63	6210.	*	1	0920	113	50.	*	1	1330	163	0.
1	0105	14	28.	*	1	0515	64	6267.	*	1	0925	114	44.	*	1	1335	164	0.
1	0110	15	33.	*	1	0520	65	6319.	*	1	0930	115	38.	*	1	1340	165	0.
1	0115	16	37.	*	1	0525	66	6346.	*	1	0935	116	34.	*	1	1345	166	0.
1	0120	17	40.	*	1	0530	67	6331.	*	1	0940	117	29.	*	1	1350	167	0.
1	0125	18	43.	*	1	0535	68	6268.	*	1	0945	118	26.	*	1	1355	168	0.
1	0130	19	45.	*	1	0540	69	6154.	*	1	0950	119	22.	*	1	1400	169	0.
1	0135	20	46.	*	1	0545	70	5996.	*	1	0955	120	19.	*	1	1405	170	0.
1	0140	21	48.	*	1	0550	71	5800.	*	1	1000	121	17.	*	1	1410	171	0.
1	0145	22	50.	*	1	0555	72	5568.	*	1	1005	122	14.	*	1	1415	172	0.
1	0150	23	52.	*	1	0600	73	5306.	*	1	1010	123	12.	*	1	1420	173	0.
1	0155	24	53.	*	1	0605	74	5019.	*	1	1015	124	10.	*	1	1425	174	0.
1	0200	25	54.	*	1	0610	75	4711.	*	1	1020	125	9.	*	1	1430	175	0.
1	0205	26	54.	*	1	0615	76	4388.	*	1	1025	126	7.	*	1	1435	176	0.
1	0210	27	54.	*	1	0620	77	4060.	*	1	1030	127	6.	*	1	1440	177	0.
1	0215	28	55.	*	1	0625	78	3734.	*	1	1035	128	5.	*	1	1445	178	0.
1	0220	29	55.	*	1	0630	79	3419.	*	1	1040	129	5.	*	1	1450	179	0.
1	0225	30	55.	*	1	0635	80	3120.	*	1	1045	130	4.	*	1	1455	180	0.
1	0230	31	56.	*	1	0640	81	2844.	*	1	1050	131	3.	*	1	1500	181	0.
1	0235	32	57.	*	1	0645	82	2593.	*	1	1055	132	3.	*	1	1505	182	0.
1	0240	33	58.	*	1	0650	83	2368.	*	1	1100	133	3.	*	1	1510	183	0.
1	0245	34	59.	*	1	0655	84	2167.	*	1	1105	134	2.	*	1	1515	184	0.
1	0250	35	59.	*	1	0700	85	1986.	*	1	1110	135	2.	*	1	1520	185	0.
1	0255	36	59.	*	1	0705	86	1821.	*	1	1115	136	2.	*	1	1525	186	0.
1	0300	37	59.	*	1	0710	87	1668.	*	1	1120	137	1.	*	1	1530	187	0.
1	0305	38	63.	*	1	0715	88	1522.	*	1	1125	138	1.	*	1	1535	188	0.
1	0310	39	76.	*	1	0720	89	1382.	*	1	1130	139	1.	*	1	1540	189	0.
1	0315	40	108.	*	1	0725	90	1246.	*	1	1135	140	1.	*	1	1545	190	0.
1	0320	41	169.	*	1	0730	91	1115.	*	1	1140	141	0.	*	1	1550	191	0.
1	0325	42	282.	*	1	0735	92	990.	*	1	1145	142	0.	*	1	1555	192	0.
1	0330	43	479.	*	1	0740	93	873.	*	1	1150	143	0.	*	1	1600	193	0.
1	0335	44	772.	*	1	0745	94	764.	*	1	1155	144	0.	*	1	1605	194	0.
1	0340	45	1172.	*	1	0750	95	665.	*	1	1200	145	0.	*	1	1610	195	0.
1	0345	46	1690.	*	1	0755	96	576.	*	1	1205	146	0.	*	1	1615	196	0.
1	0350	47	2326.	*	1	0800	97	497.	*	1	1210	147	0.	*	1	1620	197	0.
1	0355	48	3053.	*	1	0805	98	428.	*	1	1215	148	0.	*	1	1625	198	0.
1	0400	49	3804.	*	1	0810	99	369.	*	1	1220	149	0.	*	1	1630	199	0.

1 0405 50 4495. * 1 0815 100 317. * 1 1225 150 0. * 1 1635 200 0.
 * * * * *

 **

PEAK FLOW TIME MAXIMUM AVERAGE FLOW
 6-HR 24-HR 72-HR 16.58-HR
 + (CFS) (HR)
 (CFS)
 + 6346. 5.42 2949. 1076. 1076. 1076.
 (INCHES) .520 .525 .525 .525
 (AC-FT) 1462. 1475. 1475. 1475.

CUMULATIVE AREA = 52.71 SQ MI

909

 **

HYDROGRAPH AT STATION CFplain
 SUM OF 3 HYDROGRAPHS
 PLAN 1, RATIO = .44

 **

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	0000	1	0.	0410 51	1	0820	101	92.	1	1230	151	0.		
1	0005	2	0.	0415 52	1	0825	102	79.	1	1235	152	0.		
1	0010	3	0.	0420 53	1	0830	103	68.	1	1240	153	0.		
1	0015	4	0.	0425 54	1	0835	104	58.	1	1245	154	0.		
1	0020	5	0.	0430 55	1	0840	105	50.	1	1250	155	0.		
1	0025	6	1.	0435 56	1	0845	106	43.	1	1255	156	0.		

1	0030	7	1.	*	1	0440	57	2897.	*	1	0850	107	38.	*	1	1300	157	0.
1	0035	8	2.	*	1	0445	58	2896.	*	1	0855	108	33.	*	1	1305	158	0.
1	0040	9	3.	*	1	0450	59	2890.	*	1	0900	109	28.	*	1	1310	159	0.
1	0045	10	4.	*	1	0455	60	2878.	*	1	0905	110	25.	*	1	1315	160	0.
1	0050	11	5.	*	1	0500	61	2865.	*	1	0910	111	22.	*	1	1320	161	0.
1	0055	12	7.	*	1	0505	62	2853.	*	1	0915	112	19.	*	1	1325	162	0.
1	0100	13	8.	*	1	0510	63	2839.	*	1	0920	113	17.	*	1	1330	163	0.
1	0105	14	9.	*	1	0515	64	2823.	*	1	0925	114	15.	*	1	1335	164	0.
1	0110	15	10.	*	1	0520	65	2806.	*	1	0930	115	13.	*	1	1340	165	0.
1	0115	16	11.	*	1	0525	66	2785.	*	1	0935	116	11.	*	1	1345	166	0.
1	0120	17	12.	*	1	0530	67	2755.	*	1	0940	117	10.	*	1	1350	167	0.
1	0125	18	13.	*	1	0535	68	2713.	*	1	0945	118	9.	*	1	1355	168	0.
1	0130	19	13.	*	1	0540	69	2658.	*	1	0950	119	7.	*	1	1400	169	0.
1	0135	20	14.	*	1	0545	70	2589.	*	1	0955	120	6.	*	1	1405	170	0.
1	0140	21	15.	*	1	0550	71	2504.	*	1	1000	121	5.	*	1	1410	171	0.
1	0145	22	15.	*	1	0555	72	2401.	*	1	1005	122	5.	*	1	1415	172	0.
1	0150	23	16.	*	1	0600	73	2282.	*	1	1010	123	4.	*	1	1420	173	0.
1	0155	24	16.	*	1	0605	74	2148.	*	1	1015	124	3.	*	1	1425	174	0.
1	0200	25	17.	*	1	0610	75	2002.	*	1	1020	125	2.	*	1	1430	175	0.
1	0205	26	18.	*	1	0615	76	1847.	*	1	1025	126	2.	*	1	1435	176	0.
1	0210	27	18.	*	1	0620	77	1689.	*	1	1030	127	2.	*	1	1440	177	0.
1	0215	28	19.	*	1	0625	78	1532.	*	1	1035	128	1.	*	1	1445	178	0.
1	0220	29	19.	*	1	0630	79	1382.	*	1	1040	129	1.	*	1	1450	179	0.
1	0225	30	20.	*	1	0635	80	1241.	*	1	1045	130	1.	*	1	1455	180	0.
1	0230	31	21.	*	1	0640	81	1111.	*	1	1050	131	1.	*	1	1500	181	0.
1	0235	32	21.	*	1	0645	82	996.	*	1	1055	132	1.	*	1	1505	182	0.
1	0240	33	22.	*	1	0650	83	894.	*	1	1100	133	1.	*	1	1510	183	0.
1	0245	34	22.	*	1	0655	84	804.	*	1	1105	134	0.	*	1	1515	184	0.
1	0250	35	22.	*	1	0700	85	725.	*	1	1110	135	0.	*	1	1520	185	0.
1	0255	36	22.	*	1	0705	86	656.	*	1	1115	136	0.	*	1	1525	186	0.
1	0300	37	22.	*	1	0710	87	593.	*	1	1120	137	0.	*	1	1530	187	0.
1	0305	38	22.	*	1	0715	88	536.	*	1	1125	138	0.	*	1	1535	188	0.
1	0310	39	25.	*	1	0720	89	483.	*	1	1130	139	0.	*	1	1540	189	0.
1	0315	40	32.	*	1	0725	90	433.	*	1	1135	140	0.	*	1	1545	190	0.
1	0320	41	48.	*	1	0730	91	385.	*	1	1140	141	0.	*	1	1550	191	0.
1	0325	42	82.	*	1	0735	92	341.	*	1	1145	142	0.	*	1	1555	192	0.
1	0330	43	150.	*	1	0740	93	300.	*	1	1150	143	0.	*	1	1600	193	0.

1	0335	44	261.	*	1	0745	94	262.	*	1	1155	144	0.	*	1	1605	194	0.
1	0340	45	424.	*	1	0750	95	227.	*	1	1200	145	0.	*	1	1610	195	0.
1	0345	46	654.	*	1	0755	96	196.	*	1	1205	146	0.	*	1	1615	196	0.
1	0350	47	958.	*	1	0800	97	169.	*	1	1210	147	0.	*	1	1620	197	0.
1	0355	48	1327.	*	1	0805	98	145.	*	1	1215	148	0.	*	1	1625	198	0.
1	0400	49	1727.	*	1	0810	99	124.	*	1	1220	149	0.	*	1	1630	199	0.
1	0405	50	2105.	*	1	0815	100	107.	*	1	1225	150	0.	*	1	1635	200	0.
			*			*		*			*					*		

**

PEAK FLOW + (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	16.58-HR
+ 2898.	4.58	1286.	468.	468.	468.
	(INCHES)	.227	.228	.228	.228
	(AC-FT)	638.	642.	642.	642.

CUMULATIVE AREA = 52.71 SQ MI

**

HYDROGRAPH AT STATION CFplain
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .38

**

*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*				
DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

1	0000	1	0.	*	1	0410	51	1638.	*	1	0820	101	43.	*	1	1230	151	0.
1	0005	2	0.	*	1	0415	52	1808.	*	1	0825	102	37.	*	1	1235	152	0.
1	0010	3	0.	*	1	0420	53	1915.	*	1	0830	103	31.	*	1	1240	153	0.
1	0015	4	0.	*	1	0425	54	1969.	*	1	0835	104	27.	*	1	1245	154	0.
1	0020	5	0.	*	1	0430	55	1985.	*	1	0840	105	23.	*	1	1250	155	0.
1	0025	6	0.	*	1	0435	56	1982.	*	1	0845	106	20.	*	1	1255	156	0.
1	0030	7	1.	*	1	0440	57	1977.	*	1	0850	107	17.	*	1	1300	157	0.
1	0035	8	1.	*	1	0445	58	1974.	*	1	0855	108	15.	*	1	1305	158	0.
1	0040	9	2.	*	1	0450	59	1966.	*	1	0900	109	13.	*	1	1310	159	0.
1	0045	10	3.	*	1	0455	60	1952.	*	1	0905	110	11.	*	1	1315	160	0.
1	0050	11	4.	*	1	0500	61	1934.	*	1	0910	111	10.	*	1	1320	161	0.
1	0055	12	6.	*	1	0505	62	1914.	*	1	0915	112	9.	*	1	1325	162	0.
1	0100	13	7.	*	1	0510	63	1889.	*	1	0920	113	8.	*	1	1330	163	0.
1	0105	14	8.	*	1	0515	64	1859.	*	1	0925	114	7.	*	1	1335	164	0.
1	0110	15	9.	*	1	0520	65	1827.	*	1	0930	115	6.	*	1	1340	165	0.
1	0115	16	10.	*	1	0525	66	1795.	*	1	0935	116	5.	*	1	1345	166	0.
1	0120	17	10.	*	1	0530	67	1762.	*	1	0940	117	5.	*	1	1350	167	0.
1	0125	18	11.	*	1	0535	68	1726.	*	1	0945	118	4.	*	1	1355	168	0.
1	0130	19	12.	*	1	0540	69	1686.	*	1	0950	119	3.	*	1	1400	169	0.
1	0135	20	12.	*	1	0545	70	1640.	*	1	0955	120	3.	*	1	1405	170	0.
1	0140	21	13.	*	1	0550	71	1586.	*	1	1000	121	2.	*	1	1410	171	0.
1	0145	22	13.	*	1	0555	72	1519.	*	1	1005	122	2.	*	1	1415	172	0.
1	0150	23	14.	*	1	0600	73	1441.	*	1	1010	123	2.	*	1	1420	173	0.
1	0155	24	14.	*	1	0605	74	1351.	*	1	1015	124	1.	*	1	1425	174	0.
1	0200	25	15.	*	1	0610	75	1251.	*	1	1020	125	1.	*	1	1430	175	0.
1	0205	26	15.	*	1	0615	76	1145.	*	1	1025	126	1.	*	1	1435	176	0.
1	0210	27	16.	*	1	0620	77	1036.	*	1	1030	127	0.	*	1	1440	177	0.
1	0215	28	16.	*	1	0625	78	928.	*	1	1035	128	0.	*	1	1445	178	0.
1	0220	29	17.	*	1	0630	79	824.	*	1	1040	129	0.	*	1	1450	179	0.
1	0225	30	17.	*	1	0635	80	729.	*	1	1045	130	0.	*	1	1455	180	0.
1	0230	31	18.	*	1	0640	81	642.	*	1	1050	131	0.	*	1	1500	181	0.
1	0235	32	18.	*	1	0645	82	565.	*	1	1055	132	0.	*	1	1505	182	0.
1	0240	33	19.	*	1	0650	83	497.	*	1	1100	133	0.	*	1	1510	183	0.
1	0245	34	19.	*	1	0655	84	439.	*	1	1105	134	0.	*	1	1515	184	0.
1	0250	35	19.	*	1	0700	85	389.	*	1	1110	135	0.	*	1	1520	185	0.
1	0255	36	19.	*	1	0705	86	345.	*	1	1115	136	0.	*	1	1525	186	0.
1	0300	37	19.	*	1	0710	87	307.	*	1	1120	137	0.	*	1	1530	187	0.

1	0305	38	19.	*	1	0715	88	273.	*	1	1125	138	0.	*	1	1535	188	0.
1	0310	39	20.	*	1	0720	89	243.	*	1	1130	139	0.	*	1	1540	189	0.
1	0315	40	23.	*	1	0725	90	215.	*	1	1135	140	0.	*	1	1545	190	0.
1	0320	41	29.	*	1	0730	91	190.	*	1	1140	141	0.	*	1	1550	191	0.
1	0325	42	47.	*	1	0735	92	167.	*	1	1145	142	0.	*	1	1555	192	0.
1	0330	43	86.	*	1	0740	93	145.	*	1	1150	143	0.	*	1	1600	193	0.
1	0335	44	153.	*	1	0745	94	126.	*	1	1155	144	0.	*	1	1605	194	0.
1	0340	45	253.	*	1	0750	95	109.	*	1	1200	145	0.	*	1	1610	195	0.
1	0345	46	397.	*	1	0755	96	94.	*	1	1205	146	0.	*	1	1615	196	0.
1	0350	47	597.	*	1	0800	97	80.	*	1	1210	147	0.	*	1	1620	197	0.
1	0355	48	850.	*	1	0805	98	69.	*	1	1215	148	0.	*	1	1625	198	0.
1	0400	49	1132.	*	1	0810	99	58.	*	1	1220	149	0.	*	1	1630	199	0.
1	0405	50	1406.	*	1	0815	100	50.	*	1	1225	150	0.	*	1	1635	200	0.

**

610	PEAK FLOW (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	16.58-HR
+	1985.	4.50	823.	300.	300.	300.
	(INCHES)		.145	.146	.146	.146
	(AC-FT)		408.	411.	411.	411.

CUMULATIVE AREA = 52.71 SQ MI

**

HYDROGRAPH AT STATION CFplain
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .32

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		*		*		*		*		*		*		*		*		*	
DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	0000	1	0.	* 1	0410	51	908.	* 1	0820	101	18.	* 1	1230	151	0.				
1	0005	2	0.	* 1	0415	52	1023.	* 1	0825	102	16.	* 1	1235	152	0.				
1	0010	3	0.	* 1	0420	53	1097.	* 1	0830	103	14.	* 1	1240	153	0.				
1	0015	4	0.	* 1	0425	54	1136.	* 1	0835	104	12.	* 1	1245	154	0.				
1	0020	5	0.	* 1	0430	55	1149.	* 1	0840	105	10.	* 1	1250	155	0.				
1	0025	6	0.	* 1	0435	56	1148.	* 1	0845	106	9.	* 1	1255	156	0.				
1	0030	7	1.	* 1	0440	57	1146.	* 1	0850	107	8.	* 1	1300	157	0.				
1	0035	8	1.	* 1	0445	58	1146.	* 1	0855	108	7.	* 1	1305	158	0.				
1	0040	9	2.	* 1	0450	59	1143.	* 1	0900	109	6.	* 1	1310	159	0.				
1	0045	10	3.	* 1	0455	60	1136.	* 1	0905	110	5.	* 1	1315	160	0.				
1	0050	11	4.	* 1	0500	61	1126.	* 1	0910	111	5.	* 1	1320	161	0.				
1	0055	12	5.	* 1	0505	62	1112.	* 1	0915	112	4.	* 1	1325	162	0.				
1	0100	13	6.	* 1	0510	63	1093.	* 1	0920	113	4.	* 1	1330	163	0.				
1	0105	14	7.	* 1	0515	64	1069.	* 1	0925	114	3.	* 1	1335	164	0.				
1	0110	15	8.	* 1	0520	65	1043.	* 1	0930	115	3.	* 1	1340	165	0.				
1	0115	16	8.	* 1	0525	66	1017.	* 1	0935	116	3.	* 1	1345	166	0.				
1	0120	17	9.	* 1	0530	67	991.	* 1	0940	117	2.	* 1	1350	167	0.				
1	0125	18	9.	* 1	0535	68	967.	* 1	0945	118	2.	* 1	1355	168	0.				
1	0130	19	10.	* 1	0540	69	943.	* 1	0950	119	2.	* 1	1400	169	0.				
1	0135	20	10.	* 1	0545	70	918.	* 1	0955	120	2.	* 1	1405	170	0.				
1	0140	21	11.	* 1	0550	71	889.	* 1	1000	121	1.	* 1	1410	171	0.				
1	0145	22	11.	* 1	0555	72	854.	* 1	1005	122	1.	* 1	1415	172	0.				
1	0150	23	12.	* 1	0600	73	811.	* 1	1010	123	1.	* 1	1420	173	0.				
1	0155	24	12.	* 1	0605	74	761.	* 1	1015	124	1.	* 1	1425	174	0.				
1	0200	25	12.	* 1	0610	75	704.	* 1	1020	125	1.	* 1	1430	175	0.				
1	0205	26	13.	* 1	0615	76	642.	* 1	1025	126	0.	* 1	1435	176	0.				
1	0210	27	13.	* 1	0620	77	578.	* 1	1030	127	0.	* 1	1440	177	0.				
1	0215	28	14.	* 1	0625	78	515.	* 1	1035	128	0.	* 1	1445	178	0.				
1	0220	29	14.	* 1	0630	79	454.	* 1	1040	129	0.	* 1	1450	179	0.				
1	0225	30	15.	* 1	0635	80	397.	* 1	1045	130	0.	* 1	1455	180	0.				
1	0230	31	15.	* 1	0640	81	345.	* 1	1050	131	0.	* 1	1500	181	0.				

1	0235	32	16.	*	1	0645	82	299.	*	1	1055	132	0.	*	1	1505	182	0.
1	0240	33	16.	*	1	0650	83	257.	*	1	1100	133	0.	*	1	1510	183	0.
1	0245	34	16.	*	1	0655	84	222.	*	1	1105	134	0.	*	1	1515	184	0.
1	0250	35	16.	*	1	0700	85	191.	*	1	1110	135	0.	*	1	1520	185	0.
1	0255	36	16.	*	1	0705	86	164.	*	1	1115	136	0.	*	1	1525	186	0.
1	0300	37	16.	*	1	0710	87	141.	*	1	1120	137	0.	*	1	1530	187	0.
1	0305	38	16.	*	1	0715	88	122.	*	1	1125	138	0.	*	1	1535	188	0.
1	0310	39	16.	*	1	0720	89	105.	*	1	1130	139	0.	*	1	1540	189	0.
1	0315	40	16.	*	1	0725	90	91.	*	1	1135	140	0.	*	1	1545	190	0.
1	0320	41	16.	*	1	0730	91	78.	*	1	1140	141	0.	*	1	1550	191	0.
1	0325	42	21.	*	1	0735	92	67.	*	1	1145	142	0.	*	1	1555	192	0.
1	0330	43	37.	*	1	0740	93	58.	*	1	1150	143	0.	*	1	1600	193	0.
1	0335	44	65.	*	1	0745	94	50.	*	1	1155	144	0.	*	1	1605	194	0.
1	0340	45	108.	*	1	0750	95	43.	*	1	1200	145	0.	*	1	1610	195	0.
1	0345	46	176.	*	1	0755	96	37.	*	1	1205	146	0.	*	1	1615	196	0.
1	0350	47	278.	*	1	0800	97	32.	*	1	1210	147	0.	*	1	1620	197	0.
1	0355	48	419.	*	1	0805	98	28.	*	1	1215	148	0.	*	1	1625	198	0.
1	0400	49	587.	*	1	0810	99	24.	*	1	1220	149	0.	*	1	1630	199	0.
1	0405	50	757.	*	1	0815	100	20.	*	1	1225	150	0.	*	1	1635	200	0.
			*			*		*			*							

**

+ (CFS)	PEAK FLOW (HR)	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	16.58-HR
+ 1149.	4.50	458.	167.	167.	167.
	(INCHES)	.081	.081	.081	.081
	(AC-FT)	227.	229.	229.	229.

CUMULATIVE AREA = 52.71 SQ MI

**

HYDROGRAPH AT STATION CFplain
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .26

**

613

	*				*				*				*						
DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
			*				*					*					*		
1	0000	1	0.	* 1	0410	51	398.	* 1	0820	101	9.	* 1	1230	151	0.				
1	0005	2	0.	* 1	0415	52	457.	* 1	0825	102	8.	* 1	1235	152	0.				
1	0010	3	0.	* 1	0420	53	496.	* 1	0830	103	7.	* 1	1240	153	0.				
1	0015	4	0.	* 1	0425	54	517.	* 1	0835	104	6.	* 1	1245	154	0.				
1	0020	5	0.	* 1	0430	55	525.	* 1	0840	105	5.	* 1	1250	155	0.				
1	0025	6	0.	* 1	0435	56	526.	* 1	0845	106	4.	* 1	1255	156	0.				
1	0030	7	1.	* 1	0440	57	525.	* 1	0850	107	4.	* 1	1300	157	0.				
1	0035	8	1.	* 1	0445	58	526.	* 1	0855	108	3.	* 1	1305	158	0.				
1	0040	9	2.	* 1	0450	59	527.	* 1	0900	109	3.	* 1	1310	159	0.				
1	0045	10	2.	* 1	0455	60	526.	* 1	0905	110	3.	* 1	1315	160	0.				
1	0050	11	3.	* 1	0500	61	522.	* 1	0910	111	2.	* 1	1320	161	0.				
1	0055	12	4.	* 1	0505	62	517.	* 1	0915	112	2.	* 1	1325	162	0.				
1	0100	13	5.	* 1	0510	63	509.	* 1	0920	113	2.	* 1	1330	163	0.				
1	0105	14	6.	* 1	0515	64	498.	* 1	0925	114	2.	* 1	1335	164	0.				
1	0110	15	6.	* 1	0520	65	485.	* 1	0930	115	1.	* 1	1340	165	0.				
1	0115	16	7.	* 1	0525	66	472.	* 1	0935	116	1.	* 1	1345	166	0.				
1	0120	17	7.	* 1	0530	67	460.	* 1	0940	117	1.	* 1	1350	167	0.				
1	0125	18	8.	* 1	0535	68	449.	* 1	0945	118	1.	* 1	1355	168	0.				
1	0130	19	8.	* 1	0540	69	439.	* 1	0950	119	1.	* 1	1400	169	0.				
1	0135	20	8.	* 1	0545	70	429.	* 1	0955	120	1.	* 1	1405	170	0.				
1	0140	21	9.	* 1	0550	71	418.	* 1	1000	121	1.	* 1	1410	171	0.				
1	0145	22	9.	* 1	0555	72	404.	* 1	1005	122	1.	* 1	1415	172	0.				
1	0150	23	9.	* 1	0600	73	386.	* 1	1010	123	0.	* 1	1420	173	0.				

1	0155	24	10.	*	1	0605	74	365.	*	1	1015	124	0.	*	1	1425	174	0.
1	0200	25	10.	*	1	0610	75	339.	*	1	1020	125	0.	*	1	1430	175	0.
1	0205	26	10.	*	1	0615	76	312.	*	1	1025	126	0.	*	1	1435	176	0.
1	0210	27	11.	*	1	0620	77	282.	*	1	1030	127	0.	*	1	1440	177	0.
1	0215	28	11.	*	1	0625	78	253.	*	1	1035	128	0.	*	1	1445	178	0.
1	0220	29	11.	*	1	0630	79	224.	*	1	1040	129	0.	*	1	1450	179	0.
1	0225	30	12.	*	1	0635	80	196.	*	1	1045	130	0.	*	1	1455	180	0.
1	0230	31	12.	*	1	0640	81	171.	*	1	1050	131	0.	*	1	1500	181	0.
1	0235	32	13.	*	1	0645	82	149.	*	1	1055	132	0.	*	1	1505	182	0.
1	0240	33	13.	*	1	0650	83	129.	*	1	1100	133	0.	*	1	1510	183	0.
1	0245	34	13.	*	1	0655	84	111.	*	1	1105	134	0.	*	1	1515	184	0.
1	0250	35	13.	*	1	0700	85	96.	*	1	1110	135	0.	*	1	1520	185	0.
1	0255	36	13.	*	1	0705	86	83.	*	1	1115	136	0.	*	1	1525	186	0.
1	0300	37	13.	*	1	0710	87	71.	*	1	1120	137	0.	*	1	1530	187	0.
1	0305	38	13.	*	1	0715	88	62.	*	1	1125	138	0.	*	1	1535	188	0.
1	0310	39	13.	*	1	0720	89	53.	*	1	1130	139	0.	*	1	1540	189	0.
1	0315	40	13.	*	1	0725	90	46.	*	1	1135	140	0.	*	1	1545	190	0.
1	0320	41	13.	*	1	0730	91	40.	*	1	1140	141	0.	*	1	1550	191	0.
1	0325	42	14.	*	1	0735	92	34.	*	1	1145	142	0.	*	1	1555	192	0.
1	0330	43	19.	*	1	0740	93	30.	*	1	1150	143	0.	*	1	1600	193	0.
1	0335	44	29.	*	1	0745	94	26.	*	1	1155	144	0.	*	1	1605	194	0.
1	0340	45	43.	*	1	0750	95	22.	*	1	1200	145	0.	*	1	1610	195	0.
1	0345	46	68.	*	1	0755	96	19.	*	1	1205	146	0.	*	1	1615	196	0.
1	0350	47	108.	*	1	0800	97	16.	*	1	1210	147	0.	*	1	1620	197	0.
1	0355	48	167.	*	1	0805	98	14.	*	1	1215	148	0.	*	1	1625	198	0.
1	0400	49	242.	*	1	0810	99	12.	*	1	1220	149	0.	*	1	1630	199	0.
1	0405	50	323.	*	1	0815	100	10.	*	1	1225	150	0.	*	1	1635	200	0.
			*			*		*			*							

**

PEAK FLOW + (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	16.58-HR
+ 527.	4.83	213.	78.	78.	78.

(INCHES) .038 .038 .038 .038
 (AC-FT) 106. 107. 107. 107.

CUMULATIVE AREA = 52.71 SQ MI

 * *
 109 KK * HVal *
 * *

116 KO OUTPUT CONTROL VARIABLES
 IPRNT 2 PRINT CONTROL
 IPLOT 0 PLOT CONTROL
 QSCAL 0. HYDROGRAPH PLOT SCALE

SUBBASIN RUNOFF DATA

111 BA SUBBASIN CHARACTERISTICS
 TAREA 11.14 SUBBASIN AREA

PRECIPITATION DATA

112 PB STORM 3.02 BASIN TOTAL PRECIPITATION

39 PI INCREMENTAL PRECIPITATION PATTERN
 .02 .04 .02 .03 .03 .01 .01 .01 .00 .01
 .00 .01 .00 .01 .01 .01 .01 .01 .01 .01
 .01 .01 .02 .01 .01 .00 .00 .00 .01 .00
 .01 .01 .01 .02 .02 .03 .02 .05 .04 .05
 .07 .08 .01 .01 .02 .03 .01 .00 .01 .01

615

.01 .01 .01 .02 .03 .02 .03 .03 .00 .00
 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00
 .00 .00

114 LG GREEN AND AMPT LOSS RATE
 STRTL .05 STARTING LOSS
 DTH .29 MOISTURE DEFICIT
 PSIF 1.58 WETTING FRONT SUCTION
 XKSAT .28 HYDRAULIC CONDUCTIVITY
 RTIMP .63 PERCENT IMPERVIOUS AREA

115 UD SCS DIMENSIONLESS UNITGRAPH
 TLAG .86 LAG

UNIT HYDROGRAPH
 54 END-OF-PERIOD ORDINATES

165. 533. 1012. 1633. 2443. 3423. 4387. 5151. 5663. 5922.
 5957. 5875. 5543. 5157. 4720. 4184. 3548. 2962. 2511. 2154.
 1847. 1598. 1397. 1203. 1037. 874. 763. 653. 567. 484.
 417. 356. 306. 264. 227. 197. 168. 146. 125. 108.
 91. 80. 69. 61. 54. 48. 41. 34. 28. 23.
 17. 12. 6. 1.

919

 **

HYDROGRAPH AT STATION HVal

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*
 DA MON HRMN ORD RAIN LOSS EXCESS COMP Q * DA MON HRMN ORD RAIN LOSS EXCESS COMP Q
 *

1	0000	1	.00	.00	.00	0.	*	1	0820	101	.00	.00	.00	14.
1	0005	2	.06	.06	.00	0.	*	1	0825	102	.00	.00	.00	12.
1	0010	3	.12	.12	.00	0.	*	1	0830	103	.00	.00	.00	10.
1	0015	4	.06	.06	.00	1.	*	1	0835	104	.00	.00	.00	9.
1	0020	5	.09	.07	.02	6.	*	1	0840	105	.00	.00	.00	7.
1	0025	6	.10	.06	.04	23.	*	1	0845	106	.00	.00	.00	6.
1	0030	7	.02	.02	.00	51.	*	1	0850	107	.00	.00	.00	4.
1	0035	8	.03	.03	.00	88.	*	1	0855	108	.00	.00	.00	3.
1	0040	9	.02	.02	.00	135.	*	1	0900	109	.00	.00	.00	2.
1	0045	10	.01	.01	.00	193.	*	1	0905	110	.00	.00	.00	1.
1	0050	11	.03	.03	.00	258.	*	1	0910	111	.00	.00	.00	0.
1	0055	12	.01	.01	.00	318.	*	1	0915	112	.00	.00	.00	0.
1	0100	13	.02	.02	.00	363.	*	1	0920	113	.00	.00	.00	0.
1	0105	14	.01	.01	.00	391.	*	1	0925	114	.00	.00	.00	0.
1	0110	15	.02	.02	.00	403.	*	1	0930	115	.00	.00	.00	0.
1	0115	16	.02	.02	.00	403.	*	1	0935	116	.00	.00	.00	0.
1	0120	17	.02	.02	.00	392.	*	1	0940	117	.00	.00	.00	0.
1	0125	18	.03	.03	.00	368.	*	1	0945	118	.00	.00	.00	0.
1	0130	19	.03	.03	.00	341.	*	1	0950	119	.00	.00	.00	0.
1	0135	20	.03	.03	.00	309.	*	1	0955	120	.00	.00	.00	0.
1	0140	21	.03	.03	.00	272.	*	1	1000	121	.00	.00	.00	0.
1	0145	22	.03	.03	.00	231.	*	1	1005	122	.00	.00	.00	0.
1	0150	23	.02	.02	.00	196.	*	1	1010	123	.00	.00	.00	0.
1	0155	24	.05	.04	.01	170.	*	1	1015	124	.00	.00	.00	0.
1	0200	25	.03	.03	.00	150.	*	1	1020	125	.00	.00	.00	0.
1	0205	26	.03	.03	.00	135.	*	1	1025	126	.00	.00	.00	0.
1	0210	27	.02	.02	.00	125.	*	1	1030	127	.00	.00	.00	0.
1	0215	28	.01	.01	.00	118.	*	1	1035	128	.00	.00	.00	0.
1	0220	29	.00	.00	.00	113.	*	1	1040	129	.00	.00	.00	0.
1	0225	30	.02	.02	.00	109.	*	1	1045	130	.00	.00	.00	0.
1	0230	31	.01	.01	.00	105.	*	1	1050	131	.00	.00	.00	0.
1	0235	32	.02	.02	.00	102.	*	1	1055	132	.00	.00	.00	0.
1	0240	33	.02	.02	.00	97.	*	1	1100	133	.00	.00	.00	0.
1	0245	34	.04	.03	.00	92.	*	1	1105	134	.00	.00	.00	0.
1	0250	35	.05	.03	.01	89.	*	1	1110	135	.00	.00	.00	0.
1	0255	36	.06	.03	.03	93.	*	1	1115	136	.00	.00	.00	0.
1	0300	37	.08	.03	.05	112.	*	1	1120	137	.00	.00	.00	0.

1	0305	38	.07	.03	.03	152.	*	1	1125	138	.00	.00	.00	0.
1	0310	39	.14	.03	.11	228.	*	1	1130	139	.00	.00	.00	0.
1	0315	40	.11	.03	.08	356.	*	1	1135	140	.00	.00	.00	0.
1	0320	41	.14	.03	.11	549.	*	1	1140	141	.00	.00	.00	0.
1	0325	42	.21	.03	.18	829.	*	1	1145	142	.00	.00	.00	0.
1	0330	43	.24	.03	.21	1220.	*	1	1150	143	.00	.00	.00	0.
1	0335	44	.03	.03	.00	1703.	*	1	1155	144	.00	.00	.00	0.
1	0340	45	.03	.03	.00	2238.	*	1	1200	145	.00	.00	.00	0.
1	0345	46	.06	.03	.03	2810.	*	1	1205	146	.00	.00	.00	0.
1	0350	47	.08	.03	.05	3396.	*	1	1210	147	.00	.00	.00	0.
1	0355	48	.03	.03	.00	3940.	*	1	1215	148	.00	.00	.00	0.
1	0400	49	.02	.02	.00	4367.	*	1	1220	149	.00	.00	.00	0.
1	0405	50	.03	.03	.00	4649.	*	1	1225	150	.00	.00	.00	0.
1	0410	51	.02	.02	.00	4780.	*	1	1230	151	.00	.00	.00	0.
1	0415	52	.03	.03	.00	4780.	*	1	1235	152	.00	.00	.00	0.
1	0420	53	.02	.02	.00	4664.	*	1	1240	153	.00	.00	.00	0.
1	0425	54	.04	.03	.01	4445.	*	1	1245	154	.00	.00	.00	0.
1	0430	55	.06	.03	.03	4137.	*	1	1250	155	.00	.00	.00	0.
1	0435	56	.09	.03	.06	3802.	*	1	1255	156	.00	.00	.00	0.
1	0440	57	.06	.03	.03	3462.	*	1	1300	157	.00	.00	.00	0.
1	0445	58	.08	.03	.06	3129.	*	1	1305	158	.00	.00	.00	0.
1	0450	59	.08	.03	.06	2843.	*	1	1310	159	.00	.00	.00	0.
1	0455	60	.01	.01	.00	2646.	*	1	1315	160	.00	.00	.00	0.
1	0500	61	.01	.01	.00	2535.	*	1	1320	161	.00	.00	.00	0.
1	0505	62	.02	.02	.00	2471.	*	1	1325	162	.00	.00	.00	0.
1	0510	63	.01	.01	.00	2433.	*	1	1330	163	.00	.00	.00	0.
1	0515	64	.01	.01	.00	2406.	*	1	1335	164	.00	.00	.00	0.
1	0520	65	.01	.01	.00	2367.	*	1	1340	165	.00	.00	.00	0.
1	0525	66	.01	.01	.00	2294.	*	1	1345	166	.00	.00	.00	0.
1	0530	67	.00	.00	.00	2191.	*	1	1350	167	.00	.00	.00	0.
1	0535	68	.01	.01	.00	2059.	*	1	1355	168	.00	.00	.00	0.
1	0540	69	.00	.00	.00	1914.	*	1	1400	169	.00	.00	.00	0.
1	0545	70	.01	.01	.00	1748.	*	1	1405	170	.00	.00	.00	0.
1	0550	71	.00	.00	.00	1567.	*	1	1410	171	.00	.00	.00	0.
1	0555	72	.01	.01	.00	1382.	*	1	1415	172	.00	.00	.00	0.
1	0600	73	.00	.00	.00	1204.	*	1	1420	173	.00	.00	.00	0.
1	0605	74	.00	.00	.00	1034.	*	1	1425	174	.00	.00	.00	0.

1	0610	75	.00	.00	.00	881.	*	1	1430	175	.00	.00	.00	0.
1	0615	76	.00	.00	.00	752.	*	1	1435	176	.00	.00	.00	0.
1	0620	77	.00	.00	.00	645.	*	1	1440	177	.00	.00	.00	0.
1	0625	78	.00	.00	.00	557.	*	1	1445	178	.00	.00	.00	0.
1	0630	79	.00	.00	.00	480.	*	1	1450	179	.00	.00	.00	0.
1	0635	80	.00	.00	.00	415.	*	1	1455	180	.00	.00	.00	0.
1	0640	81	.00	.00	.00	358.	*	1	1500	181	.00	.00	.00	0.
1	0645	82	.00	.00	.00	308.	*	1	1505	182	.00	.00	.00	0.
1	0650	83	.00	.00	.00	265.	*	1	1510	183	.00	.00	.00	0.
1	0655	84	.00	.00	.00	228.	*	1	1515	184	.00	.00	.00	0.
1	0700	85	.00	.00	.00	197.	*	1	1520	185	.00	.00	.00	0.
1	0705	86	.00	.00	.00	170.	*	1	1525	186	.00	.00	.00	0.
1	0710	87	.00	.00	.00	146.	*	1	1530	187	.00	.00	.00	0.
1	0715	88	.00	.00	.00	125.	*	1	1535	188	.00	.00	.00	0.
1	0720	89	.00	.00	.00	107.	*	1	1540	189	.00	.00	.00	0.
1	0725	90	.00	.00	.00	90.	*	1	1545	190	.00	.00	.00	0.
1	0730	91	.00	.00	.00	76.	*	1	1550	191	.00	.00	.00	0.
1	0735	92	.00	.00	.00	64.	*	1	1555	192	.00	.00	.00	0.
1	0740	93	.00	.00	.00	53.	*	1	1600	193	.00	.00	.00	0.
1	0745	94	.00	.00	.00	44.	*	1	1605	194	.00	.00	.00	0.
1	0750	95	.00	.00	.00	36.	*	1	1610	195	.00	.00	.00	0.
1	0755	96	.00	.00	.00	29.	*	1	1615	196	.00	.00	.00	0.
1	0800	97	.00	.00	.00	25.	*	1	1620	197	.00	.00	.00	0.
1	0805	98	.00	.00	.00	21.	*	1	1625	198	.00	.00	.00	0.
1	0810	99	.00	.00	.00	18.	*	1	1630	199	.00	.00	.00	0.
1	0815	100	.00	.00	.00	16.	*	1	1635	200	.00	.00	.00	0.

*

**

TOTAL RAINFALL = 3.02, TOTAL LOSS = 1.80, TOTAL EXCESS = 1.22

PEAK FLOW + (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW			
		6-HR (CFS)	24-HR	72-HR	16.58-HR

+ 4780. 4.25 1430. 529. 529. 529.
 (INCHES) 1.194 1.220 1.220 1.220
 (AC-FT) 709. 725. 725. 725.

CUMULATIVE AREA = 11.14 SQ MI

 **

HYDROGRAPH AT STATION HVal
 PLAN 1, RATIO = .62

 **

620	*							*										
	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q
	1	0000	1	.00	.00	.00	0.	*	1	0820	101	.00	.00	.00	5.			
	1	0005	2	.04	.04	.00	0.	*	1	0825	102	.00	.00	.00	4.			
	1	0010	3	.07	.07	.00	0.	*	1	0830	103	.00	.00	.00	3.			
	1	0015	4	.04	.04	.00	1.	*	1	0835	104	.00	.00	.00	3.			
	1	0020	5	.06	.06	.00	1.	*	1	0840	105	.00	.00	.00	2.			
	1	0025	6	.06	.06	.00	2.	*	1	0845	106	.00	.00	.00	2.			
	1	0030	7	.01	.01	.00	3.	*	1	0850	107	.00	.00	.00	2.			
	1	0035	8	.02	.02	.00	4.	*	1	0855	108	.00	.00	.00	1.			
	1	0040	9	.01	.01	.00	6.	*	1	0900	109	.00	.00	.00	1.			
	1	0045	10	.01	.01	.00	7.	*	1	0905	110	.00	.00	.00	0.			
	1	0050	11	.02	.02	.00	9.	*	1	0910	111	.00	.00	.00	0.			
	1	0055	12	.00	.00	.00	10.	*	1	0915	112	.00	.00	.00	0.			
	1	0100	13	.01	.01	.00	11.	*	1	0920	113	.00	.00	.00	0.			
	1	0105	14	.01	.01	.00	11.	*	1	0925	114	.00	.00	.00	0.			
	1	0110	15	.01	.01	.00	12.	*	1	0930	115	.00	.00	.00	0.			
	1	0115	16	.01	.01	.00	12.	*	1	0935	116	.00	.00	.00	0.			
	1	0120	17	.01	.01	.00	11.	*	1	0940	117	.00	.00	.00	0.			

1	0125	18	.02	.02	.00	11.	*	1	0945	118	.00	.00	.00	0.
1	0130	19	.02	.02	.00	11.	*	1	0950	119	.00	.00	.00	0.
1	0135	20	.02	.02	.00	10.	*	1	0955	120	.00	.00	.00	0.
1	0140	21	.02	.02	.00	9.	*	1	1000	121	.00	.00	.00	0.
1	0145	22	.02	.02	.00	9.	*	1	1005	122	.00	.00	.00	0.
1	0150	23	.01	.01	.00	9.	*	1	1010	123	.00	.00	.00	0.
1	0155	24	.03	.03	.00	9.	*	1	1015	124	.00	.00	.00	0.
1	0200	25	.02	.02	.00	9.	*	1	1020	125	.00	.00	.00	0.
1	0205	26	.02	.02	.00	9.	*	1	1025	126	.00	.00	.00	0.
1	0210	27	.01	.01	.00	9.	*	1	1030	127	.00	.00	.00	0.
1	0215	28	.01	.01	.00	9.	*	1	1035	128	.00	.00	.00	0.
1	0220	29	.00	.00	.00	9.	*	1	1040	129	.00	.00	.00	0.
1	0225	30	.01	.01	.00	9.	*	1	1045	130	.00	.00	.00	0.
1	0230	31	.01	.01	.00	9.	*	1	1050	131	.00	.00	.00	0.
1	0235	32	.01	.01	.00	9.	*	1	1055	132	.00	.00	.00	0.
1	0240	33	.01	.01	.00	9.	*	1	1100	133	.00	.00	.00	0.
1	0245	34	.02	.02	.00	8.	*	1	1105	134	.00	.00	.00	0.
1	0250	35	.03	.03	.00	8.	*	1	1110	135	.00	.00	.00	0.
1	0255	36	.04	.04	.00	8.	*	1	1115	136	.00	.00	.00	0.
1	0300	37	.05	.04	.01	10.	*	1	1120	137	.00	.00	.00	0.
1	0305	38	.04	.04	.00	15.	*	1	1125	138	.00	.00	.00	0.
1	0310	39	.09	.04	.05	31.	*	1	1130	139	.00	.00	.00	0.
1	0315	40	.07	.04	.03	64.	*	1	1135	140	.00	.00	.00	0.
1	0320	41	.09	.04	.05	122.	*	1	1140	141	.00	.00	.00	0.
1	0325	42	.13	.04	.09	219.	*	1	1145	142	.00	.00	.00	0.
1	0330	43	.15	.03	.12	376.	*	1	1150	143	.00	.00	.00	0.
1	0335	44	.02	.02	.00	585.	*	1	1155	144	.00	.00	.00	0.
1	0340	45	.02	.02	.00	832.	*	1	1200	145	.00	.00	.00	0.
1	0345	46	.04	.03	.01	1108.	*	1	1205	146	.00	.00	.00	0.
1	0350	47	.05	.03	.02	1401.	*	1	1210	147	.00	.00	.00	0.
1	0355	48	.02	.02	.00	1683.	*	1	1215	148	.00	.00	.00	0.
1	0400	49	.01	.01	.00	1910.	*	1	1220	149	.00	.00	.00	0.
1	0405	50	.02	.02	.00	2066.	*	1	1225	150	.00	.00	.00	0.
1	0410	51	.01	.01	.00	2144.	*	1	1230	151	.00	.00	.00	0.
1	0415	52	.02	.02	.00	2156.	*	1	1235	152	.00	.00	.00	0.
1	0420	53	.01	.01	.00	2111.	*	1	1240	153	.00	.00	.00	0.
1	0425	54	.03	.03	.00	2015.	*	1	1245	154	.00	.00	.00	0.

1	0430	55	.04	.03	.00	1870.	*	1	1250	155	.00	.00	.00	0.
1	0435	56	.06	.03	.02	1709.	*	1	1255	156	.00	.00	.00	0.
1	0440	57	.04	.03	.01	1540.	*	1	1300	157	.00	.00	.00	0.
1	0445	58	.05	.03	.02	1367.	*	1	1305	158	.00	.00	.00	0.
1	0450	59	.05	.03	.02	1209.	*	1	1310	159	.00	.00	.00	0.
1	0455	60	.01	.01	.00	1091.	*	1	1315	160	.00	.00	.00	0.
1	0500	61	.01	.01	.00	1015.	*	1	1320	161	.00	.00	.00	0.
1	0505	62	.01	.01	.00	963.	*	1	1325	162	.00	.00	.00	0.
1	0510	63	.00	.00	.00	929.	*	1	1330	163	.00	.00	.00	0.
1	0515	64	.00	.00	.00	903.	*	1	1335	164	.00	.00	.00	0.
1	0520	65	.00	.00	.00	877.	*	1	1340	165	.00	.00	.00	0.
1	0525	66	.01	.01	.00	841.	*	1	1345	166	.00	.00	.00	0.
1	0530	67	.00	.00	.00	798.	*	1	1350	167	.00	.00	.00	0.
1	0535	68	.00	.00	.00	746.	*	1	1355	168	.00	.00	.00	0.
1	0540	69	.00	.00	.00	692.	*	1	1400	169	.00	.00	.00	0.
1	0545	70	.01	.01	.00	632.	*	1	1405	170	.00	.00	.00	0.
1	0550	71	.00	.00	.00	568.	*	1	1410	171	.00	.00	.00	0.
1	0555	72	.00	.00	.00	502.	*	1	1415	172	.00	.00	.00	0.
1	0600	73	.00	.00	.00	438.	*	1	1420	173	.00	.00	.00	0.
1	0605	74	.00	.00	.00	377.	*	1	1425	174	.00	.00	.00	0.
1	0610	75	.00	.00	.00	321.	*	1	1430	175	.00	.00	.00	0.
1	0615	76	.00	.00	.00	274.	*	1	1435	176	.00	.00	.00	0.
1	0620	77	.00	.00	.00	235.	*	1	1440	177	.00	.00	.00	0.
1	0625	78	.00	.00	.00	203.	*	1	1445	178	.00	.00	.00	0.
1	0630	79	.00	.00	.00	175.	*	1	1450	179	.00	.00	.00	0.
1	0635	80	.00	.00	.00	151.	*	1	1455	180	.00	.00	.00	0.
1	0640	81	.00	.00	.00	130.	*	1	1500	181	.00	.00	.00	0.
1	0645	82	.00	.00	.00	113.	*	1	1505	182	.00	.00	.00	0.
1	0650	83	.00	.00	.00	97.	*	1	1510	183	.00	.00	.00	0.
1	0655	84	.00	.00	.00	83.	*	1	1515	184	.00	.00	.00	0.
1	0700	85	.00	.00	.00	72.	*	1	1520	185	.00	.00	.00	0.
1	0705	86	.00	.00	.00	62.	*	1	1525	186	.00	.00	.00	0.
1	0710	87	.00	.00	.00	54.	*	1	1530	187	.00	.00	.00	0.
1	0715	88	.00	.00	.00	46.	*	1	1535	188	.00	.00	.00	0.
1	0720	89	.00	.00	.00	39.	*	1	1540	189	.00	.00	.00	0.
1	0725	90	.00	.00	.00	33.	*	1	1545	190	.00	.00	.00	0.
1	0730	91	.00	.00	.00	28.	*	1	1550	191	.00	.00	.00	0.

1	0735	92	.00	.00	.00	23.	*	1	1555	192	.00	.00	.00	0.
1	0740	93	.00	.00	.00	19.	*	1	1600	193	.00	.00	.00	0.
1	0745	94	.00	.00	.00	15.	*	1	1605	194	.00	.00	.00	0.
1	0750	95	.00	.00	.00	12.	*	1	1610	195	.00	.00	.00	0.
1	0755	96	.00	.00	.00	10.	*	1	1615	196	.00	.00	.00	0.
1	0800	97	.00	.00	.00	8.	*	1	1620	197	.00	.00	.00	0.
1	0805	98	.00	.00	.00	7.	*	1	1625	198	.00	.00	.00	0.
1	0810	99	.00	.00	.00	6.	*	1	1630	199	.00	.00	.00	0.
1	0815	100	.00	.00	.00	5.	*	1	1635	200	.00	.00	.00	0.

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**

TOTAL RAINFALL = 1.87, TOTAL LOSS = 1.40, TOTAL EXCESS = .47

623

PEAK FLOW (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	16.58-HR
+ 2156.	4.25	559.	203.	203.	203.
	(INCHES)	.466	.469	.469	.469
	(AC-FT)	277.	278.	278.	278.

CUMULATIVE AREA = 11.14 SQ MI

**

HYDROGRAPH AT STATION HVal
PLAN 1, RATIO = .44

**

1	0250	35	.02	.02	.00	6.	*	1	1110	135	.00	.00	.00	0.
1	0255	36	.03	.03	.00	6.	*	1	1115	136	.00	.00	.00	0.
1	0300	37	.04	.04	.00	6.	*	1	1120	137	.00	.00	.00	0.
1	0305	38	.03	.03	.00	6.	*	1	1125	138	.00	.00	.00	0.
1	0310	39	.06	.04	.02	9.	*	1	1130	139	.00	.00	.00	0.
1	0315	40	.05	.04	.01	18.	*	1	1135	140	.00	.00	.00	0.
1	0320	41	.06	.04	.02	35.	*	1	1140	141	.00	.00	.00	0.
1	0325	42	.09	.04	.05	69.	*	1	1145	142	.00	.00	.00	0.
1	0330	43	.11	.04	.07	133.	*	1	1150	143	.00	.00	.00	0.
1	0335	44	.01	.01	.00	224.	*	1	1155	144	.00	.00	.00	0.
1	0340	45	.01	.01	.00	336.	*	1	1200	145	.00	.00	.00	0.
1	0345	46	.03	.03	.00	467.	*	1	1205	146	.00	.00	.00	0.
1	0350	47	.04	.04	.00	613.	*	1	1210	147	.00	.00	.00	0.
1	0355	48	.01	.01	.00	758.	*	1	1215	148	.00	.00	.00	0.
1	0400	49	.01	.01	.00	878.	*	1	1220	149	.00	.00	.00	0.
1	0405	50	.01	.01	.00	962.	*	1	1225	150	.00	.00	.00	0.
1	0410	51	.01	.01	.00	1005.	*	1	1230	151	.00	.00	.00	0.
1	0415	52	.01	.01	.00	1012.	*	1	1235	152	.00	.00	.00	0.
1	0420	53	.01	.01	.00	990.	*	1	1240	153	.00	.00	.00	0.
1	0425	54	.02	.02	.00	944.	*	1	1245	154	.00	.00	.00	0.
1	0430	55	.03	.03	.00	874.	*	1	1250	155	.00	.00	.00	0.
1	0435	56	.04	.03	.01	796.	*	1	1255	156	.00	.00	.00	0.
1	0440	57	.03	.03	.00	711.	*	1	1300	157	.00	.00	.00	0.
1	0445	58	.04	.03	.00	620.	*	1	1305	158	.00	.00	.00	0.
1	0450	59	.04	.03	.00	532.	*	1	1310	159	.00	.00	.00	0.
1	0455	60	.01	.01	.00	460.	*	1	1315	160	.00	.00	.00	0.
1	0500	61	.01	.01	.00	407.	*	1	1320	161	.00	.00	.00	0.
1	0505	62	.01	.01	.00	366.	*	1	1325	162	.00	.00	.00	0.
1	0510	63	.00	.00	.00	333.	*	1	1330	163	.00	.00	.00	0.
1	0515	64	.00	.00	.00	307.	*	1	1335	164	.00	.00	.00	0.
1	0520	65	.00	.00	.00	283.	*	1	1340	165	.00	.00	.00	0.
1	0525	66	.01	.01	.00	259.	*	1	1345	166	.00	.00	.00	0.
1	0530	67	.00	.00	.00	236.	*	1	1350	167	.00	.00	.00	0.
1	0535	68	.00	.00	.00	213.	*	1	1355	168	.00	.00	.00	0.
1	0540	69	.00	.00	.00	193.	*	1	1400	169	.00	.00	.00	0.
1	0545	70	.00	.00	.00	173.	*	1	1405	170	.00	.00	.00	0.
1	0550	71	.00	.00	.00	153.	*	1	1410	171	.00	.00	.00	0.

1	0555	72	.00	.00	.00	134.	*	1	1415	172	.00	.00	.00	0.
1	0600	73	.00	.00	.00	117.	*	1	1420	173	.00	.00	.00	0.
1	0605	74	.00	.00	.00	100.	*	1	1425	174	.00	.00	.00	0.
1	0610	75	.00	.00	.00	86.	*	1	1430	175	.00	.00	.00	0.
1	0615	76	.00	.00	.00	74.	*	1	1435	176	.00	.00	.00	0.
1	0620	77	.00	.00	.00	64.	*	1	1440	177	.00	.00	.00	0.
1	0625	78	.00	.00	.00	55.	*	1	1445	178	.00	.00	.00	0.
1	0630	79	.00	.00	.00	47.	*	1	1450	179	.00	.00	.00	0.
1	0635	80	.00	.00	.00	41.	*	1	1455	180	.00	.00	.00	0.
1	0640	81	.00	.00	.00	35.	*	1	1500	181	.00	.00	.00	0.
1	0645	82	.00	.00	.00	31.	*	1	1505	182	.00	.00	.00	0.
1	0650	83	.00	.00	.00	26.	*	1	1510	183	.00	.00	.00	0.
1	0655	84	.00	.00	.00	23.	*	1	1515	184	.00	.00	.00	0.
1	0700	85	.00	.00	.00	20.	*	1	1520	185	.00	.00	.00	0.
1	0705	86	.00	.00	.00	17.	*	1	1525	186	.00	.00	.00	0.
1	0710	87	.00	.00	.00	15.	*	1	1530	187	.00	.00	.00	0.
1	0715	88	.00	.00	.00	13.	*	1	1535	188	.00	.00	.00	0.
1	0720	89	.00	.00	.00	11.	*	1	1540	189	.00	.00	.00	0.
1	0725	90	.00	.00	.00	9.	*	1	1545	190	.00	.00	.00	0.
1	0730	91	.00	.00	.00	8.	*	1	1550	191	.00	.00	.00	0.
1	0735	92	.00	.00	.00	6.	*	1	1555	192	.00	.00	.00	0.
1	0740	93	.00	.00	.00	5.	*	1	1600	193	.00	.00	.00	0.
1	0745	94	.00	.00	.00	4.	*	1	1605	194	.00	.00	.00	0.
1	0750	95	.00	.00	.00	3.	*	1	1610	195	.00	.00	.00	0.
1	0755	96	.00	.00	.00	2.	*	1	1615	196	.00	.00	.00	0.
1	0800	97	.00	.00	.00	2.	*	1	1620	197	.00	.00	.00	0.
1	0805	98	.00	.00	.00	1.	*	1	1625	198	.00	.00	.00	0.
1	0810	99	.00	.00	.00	1.	*	1	1630	199	.00	.00	.00	0.
1	0815	100	.00	.00	.00	1.	*	1	1635	200	.00	.00	.00	0.

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**

TOTAL RAINFALL = 1.33, TOTAL LOSS = 1.14, TOTAL EXCESS = .19

PEAK FLOW TIME

MAXIMUM AVERAGE FLOW

		6-HR	24-HR	72-HR	16.58-HR
+ (CFS)	(HR)				
	(CFS)				
+ 1012.	4.25	228.	83.	83.	83.
	(INCHES)	.190	.192	.192	.192
	(AC-FT)	113.	114.	114.	114.

CUMULATIVE AREA = 11.14 SQ MI

**

HYDROGRAPH AT STATION HVal
PLAN 1, RATIO = .38

**

627

**																		
*																		
DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q
*																		
1	0000	1	.00	.00	.00	0.	*	1	0820	101	.00	.00	.00	0.				
1	0005	2	.02	.02	.00	0.	*	1	0825	102	.00	.00	.00	0.				
1	0010	3	.04	.04	.00	0.	*	1	0830	103	.00	.00	.00	0.				
1	0015	4	.02	.02	.00	0.	*	1	0835	104	.00	.00	.00	0.				
1	0020	5	.03	.03	.00	1.	*	1	0840	105	.00	.00	.00	0.				
1	0025	6	.04	.04	.00	1.	*	1	0845	106	.00	.00	.00	0.				
1	0030	7	.01	.01	.00	2.	*	1	0850	107	.00	.00	.00	0.				
1	0035	8	.01	.01	.00	3.	*	1	0855	108	.00	.00	.00	0.				
1	0040	9	.01	.01	.00	4.	*	1	0900	109	.00	.00	.00	0.				
1	0045	10	.00	.00	.00	4.	*	1	0905	110	.00	.00	.00	0.				
1	0050	11	.01	.01	.00	5.	*	1	0910	111	.00	.00	.00	0.				
1	0055	12	.00	.00	.00	6.	*	1	0915	112	.00	.00	.00	0.				
1	0100	13	.01	.01	.00	7.	*	1	0920	113	.00	.00	.00	0.				
1	0105	14	.00	.00	.00	7.	*	1	0925	114	.00	.00	.00	0.				

1	0110	15	.01	.01	.00	7.	*	1	0930	115	.00	.00	.00	0.
1	0115	16	.01	.01	.00	7.	*	1	0935	116	.00	.00	.00	0.
1	0120	17	.01	.01	.00	7.	*	1	0940	117	.00	.00	.00	0.
1	0125	18	.01	.01	.00	7.	*	1	0945	118	.00	.00	.00	0.
1	0130	19	.01	.01	.00	6.	*	1	0950	119	.00	.00	.00	0.
1	0135	20	.01	.01	.00	6.	*	1	0955	120	.00	.00	.00	0.
1	0140	21	.01	.01	.00	6.	*	1	1000	121	.00	.00	.00	0.
1	0145	22	.01	.01	.00	6.	*	1	1005	122	.00	.00	.00	0.
1	0150	23	.01	.01	.00	5.	*	1	1010	123	.00	.00	.00	0.
1	0155	24	.02	.02	.00	5.	*	1	1015	124	.00	.00	.00	0.
1	0200	25	.01	.01	.00	5.	*	1	1020	125	.00	.00	.00	0.
1	0205	26	.01	.01	.00	5.	*	1	1025	126	.00	.00	.00	0.
1	0210	27	.01	.01	.00	5.	*	1	1030	127	.00	.00	.00	0.
1	0215	28	.00	.00	.00	5.	*	1	1035	128	.00	.00	.00	0.
1	0220	29	.00	.00	.00	5.	*	1	1040	129	.00	.00	.00	0.
1	0225	30	.01	.01	.00	5.	*	1	1045	130	.00	.00	.00	0.
1	0230	31	.00	.00	.00	5.	*	1	1050	131	.00	.00	.00	0.
1	0235	32	.01	.01	.00	5.	*	1	1055	132	.00	.00	.00	0.
1	0240	33	.01	.01	.00	5.	*	1	1100	133	.00	.00	.00	0.
1	0245	34	.01	.01	.00	5.	*	1	1105	134	.00	.00	.00	0.
1	0250	35	.02	.02	.00	5.	*	1	1110	135	.00	.00	.00	0.
1	0255	36	.02	.02	.00	5.	*	1	1115	136	.00	.00	.00	0.
1	0300	37	.03	.03	.00	5.	*	1	1120	137	.00	.00	.00	0.
1	0305	38	.03	.03	.00	5.	*	1	1125	138	.00	.00	.00	0.
1	0310	39	.05	.05	.01	6.	*	1	1130	139	.00	.00	.00	0.
1	0315	40	.04	.04	.00	10.	*	1	1135	140	.00	.00	.00	0.
1	0320	41	.05	.04	.01	16.	*	1	1140	141	.00	.00	.00	0.
1	0325	42	.08	.04	.04	33.	*	1	1145	142	.00	.00	.00	0.
1	0330	43	.09	.04	.05	69.	*	1	1150	143	.00	.00	.00	0.
1	0335	44	.01	.01	.00	123.	*	1	1155	144	.00	.00	.00	0.
1	0340	45	.01	.01	.00	190.	*	1	1200	145	.00	.00	.00	0.
1	0345	46	.02	.02	.00	272.	*	1	1205	146	.00	.00	.00	0.
1	0350	47	.03	.03	.00	369.	*	1	1210	147	.00	.00	.00	0.
1	0355	48	.01	.01	.00	469.	*	1	1215	148	.00	.00	.00	0.
1	0400	49	.01	.01	.00	555.	*	1	1220	149	.00	.00	.00	0.
1	0405	50	.01	.01	.00	618.	*	1	1225	150	.00	.00	.00	0.
1	0410	51	.01	.01	.00	652.	*	1	1230	151	.00	.00	.00	0.

1	0415	52	.01	.01	.00	663.	*	1	1235	152	.00	.00	.00	0.
1	0420	53	.01	.01	.00	653.	*	1	1240	153	.00	.00	.00	0.
1	0425	54	.02	.02	.00	627.	*	1	1245	154	.00	.00	.00	0.
1	0430	55	.02	.02	.00	584.	*	1	1250	155	.00	.00	.00	0.
1	0435	56	.03	.03	.00	535.	*	1	1255	156	.00	.00	.00	0.
1	0440	57	.02	.02	.00	480.	*	1	1300	157	.00	.00	.00	0.
1	0445	58	.03	.03	.00	418.	*	1	1305	158	.00	.00	.00	0.
1	0450	59	.03	.03	.00	354.	*	1	1310	159	.00	.00	.00	0.
1	0455	60	.00	.00	.00	299.	*	1	1315	160	.00	.00	.00	0.
1	0500	61	.00	.00	.00	257.	*	1	1320	161	.00	.00	.00	0.
1	0505	62	.01	.01	.00	222.	*	1	1325	162	.00	.00	.00	0.
1	0510	63	.00	.00	.00	193.	*	1	1330	163	.00	.00	.00	0.
1	0515	64	.00	.00	.00	168.	*	1	1335	164	.00	.00	.00	0.
1	0520	65	.00	.00	.00	148.	*	1	1340	165	.00	.00	.00	0.
1	0525	66	.00	.00	.00	128.	*	1	1345	166	.00	.00	.00	0.
1	0530	67	.00	.00	.00	111.	*	1	1350	167	.00	.00	.00	0.
1	0535	68	.00	.00	.00	96.	*	1	1355	168	.00	.00	.00	0.
1	0540	69	.00	.00	.00	84.	*	1	1400	169	.00	.00	.00	0.
1	0545	70	.00	.00	.00	72.	*	1	1405	170	.00	.00	.00	0.
1	0550	71	.00	.00	.00	63.	*	1	1410	171	.00	.00	.00	0.
1	0555	72	.00	.00	.00	54.	*	1	1415	172	.00	.00	.00	0.
1	0600	73	.00	.00	.00	47.	*	1	1420	173	.00	.00	.00	0.
1	0605	74	.00	.00	.00	40.	*	1	1425	174	.00	.00	.00	0.
1	0610	75	.00	.00	.00	35.	*	1	1430	175	.00	.00	.00	0.
1	0615	76	.00	.00	.00	30.	*	1	1435	176	.00	.00	.00	0.
1	0620	77	.00	.00	.00	26.	*	1	1440	177	.00	.00	.00	0.
1	0625	78	.00	.00	.00	23.	*	1	1445	178	.00	.00	.00	0.
1	0630	79	.00	.00	.00	20.	*	1	1450	179	.00	.00	.00	0.
1	0635	80	.00	.00	.00	17.	*	1	1455	180	.00	.00	.00	0.
1	0640	81	.00	.00	.00	15.	*	1	1500	181	.00	.00	.00	0.
1	0645	82	.00	.00	.00	13.	*	1	1505	182	.00	.00	.00	0.
1	0650	83	.00	.00	.00	11.	*	1	1510	183	.00	.00	.00	0.
1	0655	84	.00	.00	.00	9.	*	1	1515	184	.00	.00	.00	0.
1	0700	85	.00	.00	.00	8.	*	1	1520	185	.00	.00	.00	0.
1	0705	86	.00	.00	.00	7.	*	1	1525	186	.00	.00	.00	0.
1	0710	87	.00	.00	.00	6.	*	1	1530	187	.00	.00	.00	0.
1	0715	88	.00	.00	.00	6.	*	1	1535	188	.00	.00	.00	0.

1	0720	89	.00	.00	.00	5.	*	1	1540	189	.00	.00	.00	0.
1	0725	90	.00	.00	.00	4.	*	1	1545	190	.00	.00	.00	0.
1	0730	91	.00	.00	.00	3.	*	1	1550	191	.00	.00	.00	0.
1	0735	92	.00	.00	.00	2.	*	1	1555	192	.00	.00	.00	0.
1	0740	93	.00	.00	.00	2.	*	1	1600	193	.00	.00	.00	0.
1	0745	94	.00	.00	.00	1.	*	1	1605	194	.00	.00	.00	0.
1	0750	95	.00	.00	.00	1.	*	1	1610	195	.00	.00	.00	0.
1	0755	96	.00	.00	.00	0.	*	1	1615	196	.00	.00	.00	0.
1	0800	97	.00	.00	.00	0.	*	1	1620	197	.00	.00	.00	0.
1	0805	98	.00	.00	.00	0.	*	1	1625	198	.00	.00	.00	0.
1	0810	99	.00	.00	.00	0.	*	1	1630	199	.00	.00	.00	0.
1	0815	100	.00	.00	.00	0.	*	1	1635	200	.00	.00	.00	0.

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**

TOTAL RAINFALL = 1.15, TOTAL LOSS = 1.03, TOTAL EXCESS = .12

630

+ (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	16.58-HR
+ 663.	4.25	139.	51.	51.	51.
	(INCHES)	.116	.117	.117	.117
	(AC-FT)	69.	70.	70.	70.

CUMULATIVE AREA = 11.14 SQ MI

**

HYDROGRAPH AT STATION HVal
PLAN 1, RATIO = .32

**

*																		
DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q
*																		
1	0000	1	.00	.00	.00	0.	*	1	0820	101	.00	.00	.00	0.				
1	0005	2	.02	.02	.00	0.	*	1	0825	102	.00	.00	.00	0.				
1	0010	3	.04	.04	.00	0.	*	1	0830	103	.00	.00	.00	0.				
1	0015	4	.02	.02	.00	0.	*	1	0835	104	.00	.00	.00	0.				
1	0020	5	.03	.03	.00	1.	*	1	0840	105	.00	.00	.00	0.				
1	0025	6	.03	.03	.00	1.	*	1	0845	106	.00	.00	.00	0.				
1	0030	7	.01	.01	.00	2.	*	1	0850	107	.00	.00	.00	0.				
1	0035	8	.01	.01	.00	2.	*	1	0855	108	.00	.00	.00	0.				
1	0040	9	.01	.01	.00	3.	*	1	0900	109	.00	.00	.00	0.				
1	0045	10	.00	.00	.00	4.	*	1	0905	110	.00	.00	.00	0.				
1	0050	11	.01	.01	.00	4.	*	1	0910	111	.00	.00	.00	0.				
1	0055	12	.00	.00	.00	5.	*	1	0915	112	.00	.00	.00	0.				
1	0100	13	.00	.00	.00	6.	*	1	0920	113	.00	.00	.00	0.				
1	0105	14	.00	.00	.00	6.	*	1	0925	114	.00	.00	.00	0.				
1	0110	15	.01	.01	.00	6.	*	1	0930	115	.00	.00	.00	0.				
1	0115	16	.00	.00	.00	6.	*	1	0935	116	.00	.00	.00	0.				
1	0120	17	.01	.01	.00	6.	*	1	0940	117	.00	.00	.00	0.				
1	0125	18	.01	.01	.00	6.	*	1	0945	118	.00	.00	.00	0.				
1	0130	19	.01	.01	.00	5.	*	1	0950	119	.00	.00	.00	0.				
1	0135	20	.01	.01	.00	5.	*	1	0955	120	.00	.00	.00	0.				
1	0140	21	.01	.01	.00	5.	*	1	1000	121	.00	.00	.00	0.				
1	0145	22	.01	.01	.00	5.	*	1	1005	122	.00	.00	.00	0.				
1	0150	23	.01	.01	.00	5.	*	1	1010	123	.00	.00	.00	0.				
1	0155	24	.01	.01	.00	4.	*	1	1015	124	.00	.00	.00	0.				
1	0200	25	.01	.01	.00	4.	*	1	1020	125	.00	.00	.00	0.				
1	0205	26	.01	.01	.00	4.	*	1	1025	126	.00	.00	.00	0.				
1	0210	27	.00	.00	.00	4.	*	1	1030	127	.00	.00	.00	0.				
1	0215	28	.00	.00	.00	5.	*	1	1035	128	.00	.00	.00	0.				
1	0220	29	.00	.00	.00	5.	*	1	1040	129	.00	.00	.00	0.				
1	0225	30	.01	.01	.00	5.	*	1	1045	130	.00	.00	.00	0.				
1	0230	31	.00	.00	.00	5.	*	1	1050	131	.00	.00	.00	0.				

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1	0235	32	.01	.01	.00	5.	*	1	1055	132	.00	.00	.00	0.
1	0240	33	.01	.01	.00	4.	*	1	1100	133	.00	.00	.00	0.
1	0245	34	.01	.01	.00	4.	*	1	1105	134	.00	.00	.00	0.
1	0250	35	.01	.01	.00	4.	*	1	1110	135	.00	.00	.00	0.
1	0255	36	.02	.02	.00	4.	*	1	1115	136	.00	.00	.00	0.
1	0300	37	.03	.03	.00	4.	*	1	1120	137	.00	.00	.00	0.
1	0305	38	.02	.02	.00	4.	*	1	1125	138	.00	.00	.00	0.
1	0310	39	.05	.05	.00	4.	*	1	1130	139	.00	.00	.00	0.
1	0315	40	.04	.04	.00	5.	*	1	1135	140	.00	.00	.00	0.
1	0320	41	.05	.04	.00	5.	*	1	1140	141	.00	.00	.00	0.
1	0325	42	.07	.04	.02	10.	*	1	1145	142	.00	.00	.00	0.
1	0330	43	.08	.04	.04	25.	*	1	1150	143	.00	.00	.00	0.
1	0335	44	.01	.01	.00	50.	*	1	1155	144	.00	.00	.00	0.
1	0340	45	.01	.01	.00	83.	*	1	1200	145	.00	.00	.00	0.
1	0345	46	.02	.02	.00	124.	*	1	1205	146	.00	.00	.00	0.
1	0350	47	.03	.03	.00	177.	*	1	1210	147	.00	.00	.00	0.
1	0355	48	.01	.01	.00	235.	*	1	1215	148	.00	.00	.00	0.
1	0400	49	.00	.00	.00	287.	*	1	1220	149	.00	.00	.00	0.
1	0405	50	.01	.01	.00	326.	*	1	1225	150	.00	.00	.00	0.
1	0410	51	.01	.01	.00	351.	*	1	1230	151	.00	.00	.00	0.
1	0415	52	.01	.01	.00	361.	*	1	1235	152	.00	.00	.00	0.
1	0420	53	.01	.01	.00	360.	*	1	1240	153	.00	.00	.00	0.
1	0425	54	.01	.01	.00	348.	*	1	1245	154	.00	.00	.00	0.
1	0430	55	.02	.02	.00	327.	*	1	1250	155	.00	.00	.00	0.
1	0435	56	.03	.03	.00	303.	*	1	1255	156	.00	.00	.00	0.
1	0440	57	.02	.02	.00	274.	*	1	1300	157	.00	.00	.00	0.
1	0445	58	.03	.03	.00	240.	*	1	1305	158	.00	.00	.00	0.
1	0450	59	.03	.03	.00	204.	*	1	1310	159	.00	.00	.00	0.
1	0455	60	.00	.00	.00	172.	*	1	1315	160	.00	.00	.00	0.
1	0500	61	.00	.00	.00	148.	*	1	1320	161	.00	.00	.00	0.
1	0505	62	.00	.00	.00	128.	*	1	1325	162	.00	.00	.00	0.
1	0510	63	.00	.00	.00	111.	*	1	1330	163	.00	.00	.00	0.
1	0515	64	.00	.00	.00	98.	*	1	1335	164	.00	.00	.00	0.
1	0520	65	.00	.00	.00	86.	*	1	1340	165	.00	.00	.00	0.
1	0525	66	.00	.00	.00	75.	*	1	1345	166	.00	.00	.00	0.
1	0530	67	.00	.00	.00	65.	*	1	1350	167	.00	.00	.00	0.
1	0535	68	.00	.00	.00	56.	*	1	1355	168	.00	.00	.00	0.

1	0540	69	.00	.00	.00	50.	*	1	1400	169	.00	.00	.00	0.
1	0545	70	.00	.00	.00	43.	*	1	1405	170	.00	.00	.00	0.
1	0550	71	.00	.00	.00	38.	*	1	1410	171	.00	.00	.00	0.
1	0555	72	.00	.00	.00	32.	*	1	1415	172	.00	.00	.00	0.
1	0600	73	.00	.00	.00	28.	*	1	1420	173	.00	.00	.00	0.
1	0605	74	.00	.00	.00	24.	*	1	1425	174	.00	.00	.00	0.
1	0610	75	.00	.00	.00	21.	*	1	1430	175	.00	.00	.00	0.
1	0615	76	.00	.00	.00	18.	*	1	1435	176	.00	.00	.00	0.
1	0620	77	.00	.00	.00	16.	*	1	1440	177	.00	.00	.00	0.
1	0625	78	.00	.00	.00	14.	*	1	1445	178	.00	.00	.00	0.
1	0630	79	.00	.00	.00	12.	*	1	1450	179	.00	.00	.00	0.
1	0635	80	.00	.00	.00	10.	*	1	1455	180	.00	.00	.00	0.
1	0640	81	.00	.00	.00	9.	*	1	1500	181	.00	.00	.00	0.
1	0645	82	.00	.00	.00	8.	*	1	1505	182	.00	.00	.00	0.
1	0650	83	.00	.00	.00	7.	*	1	1510	183	.00	.00	.00	0.
1	0655	84	.00	.00	.00	6.	*	1	1515	184	.00	.00	.00	0.
1	0700	85	.00	.00	.00	5.	*	1	1520	185	.00	.00	.00	0.
1	0705	86	.00	.00	.00	4.	*	1	1525	186	.00	.00	.00	0.
1	0710	87	.00	.00	.00	4.	*	1	1530	187	.00	.00	.00	0.
1	0715	88	.00	.00	.00	3.	*	1	1535	188	.00	.00	.00	0.
1	0720	89	.00	.00	.00	3.	*	1	1540	189	.00	.00	.00	0.
1	0725	90	.00	.00	.00	2.	*	1	1545	190	.00	.00	.00	0.
1	0730	91	.00	.00	.00	2.	*	1	1550	191	.00	.00	.00	0.
1	0735	92	.00	.00	.00	2.	*	1	1555	192	.00	.00	.00	0.
1	0740	93	.00	.00	.00	1.	*	1	1600	193	.00	.00	.00	0.
1	0745	94	.00	.00	.00	1.	*	1	1605	194	.00	.00	.00	0.
1	0750	95	.00	.00	.00	0.	*	1	1610	195	.00	.00	.00	0.
1	0755	96	.00	.00	.00	0.	*	1	1615	196	.00	.00	.00	0.
1	0800	97	.00	.00	.00	0.	*	1	1620	197	.00	.00	.00	0.
1	0805	98	.00	.00	.00	0.	*	1	1625	198	.00	.00	.00	0.
1	0810	99	.00	.00	.00	0.	*	1	1630	199	.00	.00	.00	0.
1	0815	100	.00	.00	.00	0.	*	1	1635	200	.00	.00	.00	0.

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TOTAL RAINFALL = .97, TOTAL LOSS = .90, TOTAL EXCESS = .06

PEAK FLOW (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	16.58-HR
+ 361.	4.25	76.	28.	28.	28.
	(INCHES)	.064	.064	.064	.064
	(AC-FT)	38.	38.	38.	38.

CUMULATIVE AREA = 11.14 SQ MI

**

HYDROGRAPH AT STATION HVal
PLAN 1, RATIO = .26

**

DA	MON	HR	MN	ORD	RAIN	LOSS	EXCESS	COMP	Q	*	DA	MON	HR	MN	ORD	RAIN	LOSS	EXCESS	COMP	Q
1	0000	1	.00	.00	.00	0.	*	1	0820	101	.00	.00	.00	0.						
1	0005	2	.02	.02	.00	0.	*	1	0825	102	.00	.00	.00	0.						
1	0010	3	.03	.03	.00	0.	*	1	0830	103	.00	.00	.00	0.						
1	0015	4	.02	.02	.00	0.	*	1	0835	104	.00	.00	.00	0.						
1	0020	5	.02	.02	.00	0.	*	1	0840	105	.00	.00	.00	0.						
1	0025	6	.03	.03	.00	1.	*	1	0845	106	.00	.00	.00	0.						
1	0030	7	.00	.00	.00	1.	*	1	0850	107	.00	.00	.00	0.						
1	0035	8	.01	.01	.00	2.	*	1	0855	108	.00	.00	.00	0.						
1	0040	9	.01	.01	.00	2.	*	1	0900	109	.00	.00	.00	0.						
1	0045	10	.00	.00	.00	3.	*	1	0905	110	.00	.00	.00	0.						
1	0050	11	.01	.01	.00	4.	*	1	0910	111	.00	.00	.00	0.						

634

1	0055	12	.00	.00	.00	4.	*	1	0915	112	.00	.00	.00	0.
1	0100	13	.00	.00	.00	5.	*	1	0920	113	.00	.00	.00	0.
1	0105	14	.00	.00	.00	5.	*	1	0925	114	.00	.00	.00	0.
1	0110	15	.01	.01	.00	5.	*	1	0930	115	.00	.00	.00	0.
1	0115	16	.00	.00	.00	5.	*	1	0935	116	.00	.00	.00	0.
1	0120	17	.01	.01	.00	5.	*	1	0940	117	.00	.00	.00	0.
1	0125	18	.01	.01	.00	5.	*	1	0945	118	.00	.00	.00	0.
1	0130	19	.01	.01	.00	4.	*	1	0950	119	.00	.00	.00	0.
1	0135	20	.01	.01	.00	4.	*	1	0955	120	.00	.00	.00	0.
1	0140	21	.01	.01	.00	4.	*	1	1000	121	.00	.00	.00	0.
1	0145	22	.01	.01	.00	4.	*	1	1005	122	.00	.00	.00	0.
1	0150	23	.00	.00	.00	4.	*	1	1010	123	.00	.00	.00	0.
1	0155	24	.01	.01	.00	4.	*	1	1015	124	.00	.00	.00	0.
1	0200	25	.01	.01	.00	4.	*	1	1020	125	.00	.00	.00	0.
1	0205	26	.01	.01	.00	4.	*	1	1025	126	.00	.00	.00	0.
1	0210	27	.00	.00	.00	4.	*	1	1030	127	.00	.00	.00	0.
1	0215	28	.00	.00	.00	4.	*	1	1035	128	.00	.00	.00	0.
1	0220	29	.00	.00	.00	4.	*	1	1040	129	.00	.00	.00	0.
1	0225	30	.01	.01	.00	4.	*	1	1045	130	.00	.00	.00	0.
1	0230	31	.00	.00	.00	4.	*	1	1050	131	.00	.00	.00	0.
1	0235	32	.00	.00	.00	4.	*	1	1055	132	.00	.00	.00	0.
1	0240	33	.00	.00	.00	4.	*	1	1100	133	.00	.00	.00	0.
1	0245	34	.01	.01	.00	4.	*	1	1105	134	.00	.00	.00	0.
1	0250	35	.01	.01	.00	3.	*	1	1110	135	.00	.00	.00	0.
1	0255	36	.02	.02	.00	3.	*	1	1115	136	.00	.00	.00	0.
1	0300	37	.02	.02	.00	3.	*	1	1120	137	.00	.00	.00	0.
1	0305	38	.02	.02	.00	3.	*	1	1125	138	.00	.00	.00	0.
1	0310	39	.04	.04	.00	3.	*	1	1130	139	.00	.00	.00	0.
1	0315	40	.03	.03	.00	4.	*	1	1135	140	.00	.00	.00	0.
1	0320	41	.04	.04	.00	4.	*	1	1140	141	.00	.00	.00	0.
1	0325	42	.05	.05	.01	6.	*	1	1145	142	.00	.00	.00	0.
1	0330	43	.06	.05	.02	11.	*	1	1150	143	.00	.00	.00	0.
1	0335	44	.01	.01	.00	21.	*	1	1155	144	.00	.00	.00	0.
1	0340	45	.01	.01	.00	34.	*	1	1200	145	.00	.00	.00	0.
1	0345	46	.02	.02	.00	50.	*	1	1205	146	.00	.00	.00	0.
1	0350	47	.02	.02	.00	70.	*	1	1210	147	.00	.00	.00	0.
1	0355	48	.01	.01	.00	93.	*	1	1215	148	.00	.00	.00	0.

1	0400	49	.00	.00	.00	114.	*	1	1220	149	.00	.00	.00	0.
1	0405	50	.01	.01	.00	131.	*	1	1225	150	.00	.00	.00	0.
1	0410	51	.00	.00	.00	141.	*	1	1230	151	.00	.00	.00	0.
1	0415	52	.01	.01	.00	146.	*	1	1235	152	.00	.00	.00	0.
1	0420	53	.00	.00	.00	146.	*	1	1240	153	.00	.00	.00	0.
1	0425	54	.01	.01	.00	142.	*	1	1245	154	.00	.00	.00	0.
1	0430	55	.01	.01	.00	134.	*	1	1250	155	.00	.00	.00	0.
1	0435	56	.02	.02	.00	124.	*	1	1255	156	.00	.00	.00	0.
1	0440	57	.02	.02	.00	113.	*	1	1300	157	.00	.00	.00	0.
1	0445	58	.02	.02	.00	100.	*	1	1305	158	.00	.00	.00	0.
1	0450	59	.02	.02	.00	85.	*	1	1310	159	.00	.00	.00	0.
1	0455	60	.00	.00	.00	72.	*	1	1315	160	.00	.00	.00	0.
1	0500	61	.00	.00	.00	63.	*	1	1320	161	.00	.00	.00	0.
1	0505	62	.00	.00	.00	55.	*	1	1325	162	.00	.00	.00	0.
1	0510	63	.00	.00	.00	48.	*	1	1330	163	.00	.00	.00	0.
1	0515	64	.00	.00	.00	43.	*	1	1335	164	.00	.00	.00	0.
1	0520	65	.00	.00	.00	38.	*	1	1340	165	.00	.00	.00	0.
1	0525	66	.00	.00	.00	33.	*	1	1345	166	.00	.00	.00	0.
1	0530	67	.00	.00	.00	29.	*	1	1350	167	.00	.00	.00	0.
1	0535	68	.00	.00	.00	26.	*	1	1355	168	.00	.00	.00	0.
1	0540	69	.00	.00	.00	23.	*	1	1400	169	.00	.00	.00	0.
1	0545	70	.00	.00	.00	20.	*	1	1405	170	.00	.00	.00	0.
1	0550	71	.00	.00	.00	18.	*	1	1410	171	.00	.00	.00	0.
1	0555	72	.00	.00	.00	15.	*	1	1415	172	.00	.00	.00	0.
1	0600	73	.00	.00	.00	13.	*	1	1420	173	.00	.00	.00	0.
1	0605	74	.00	.00	.00	12.	*	1	1425	174	.00	.00	.00	0.
1	0610	75	.00	.00	.00	10.	*	1	1430	175	.00	.00	.00	0.
1	0615	76	.00	.00	.00	9.	*	1	1435	176	.00	.00	.00	0.
1	0620	77	.00	.00	.00	8.	*	1	1440	177	.00	.00	.00	0.
1	0625	78	.00	.00	.00	7.	*	1	1445	178	.00	.00	.00	0.
1	0630	79	.00	.00	.00	6.	*	1	1450	179	.00	.00	.00	0.
1	0635	80	.00	.00	.00	5.	*	1	1455	180	.00	.00	.00	0.
1	0640	81	.00	.00	.00	4.	*	1	1500	181	.00	.00	.00	0.
1	0645	82	.00	.00	.00	4.	*	1	1505	182	.00	.00	.00	0.
1	0650	83	.00	.00	.00	3.	*	1	1510	183	.00	.00	.00	0.
1	0655	84	.00	.00	.00	3.	*	1	1515	184	.00	.00	.00	0.
1	0700	85	.00	.00	.00	2.	*	1	1520	185	.00	.00	.00	0.

1	0705	86	.00	.00	.00	2.	*	1	1525	186	.00	.00	.00	0.
1	0710	87	.00	.00	.00	2.	*	1	1530	187	.00	.00	.00	0.
1	0715	88	.00	.00	.00	2.	*	1	1535	188	.00	.00	.00	0.
1	0720	89	.00	.00	.00	1.	*	1	1540	189	.00	.00	.00	0.
1	0725	90	.00	.00	.00	1.	*	1	1545	190	.00	.00	.00	0.
1	0730	91	.00	.00	.00	1.	*	1	1550	191	.00	.00	.00	0.
1	0735	92	.00	.00	.00	1.	*	1	1555	192	.00	.00	.00	0.
1	0740	93	.00	.00	.00	1.	*	1	1600	193	.00	.00	.00	0.
1	0745	94	.00	.00	.00	0.	*	1	1605	194	.00	.00	.00	0.
1	0750	95	.00	.00	.00	0.	*	1	1610	195	.00	.00	.00	0.
1	0755	96	.00	.00	.00	0.	*	1	1615	196	.00	.00	.00	0.
1	0800	97	.00	.00	.00	0.	*	1	1620	197	.00	.00	.00	0.
1	0805	98	.00	.00	.00	0.	*	1	1625	198	.00	.00	.00	0.
1	0810	99	.00	.00	.00	0.	*	1	1630	199	.00	.00	.00	0.
1	0815	100	.00	.00	.00	0.	*	1	1635	200	.00	.00	.00	0.

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637

TOTAL RAINFALL = .79, TOTAL LOSS = .76, TOTAL EXCESS = .03

+ (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	16.58-HR
+ 146.	4.25	32.	12.	12.	12.
	(INCHES)	.027	.027	.027	.027
	(AC-FT)	16.	16.	16.	16.

CUMULATIVE AREA = 11.14 SQ MI

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*****
*      *
128 KK *  COut *
*      *
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129 KO      OUTPUT CONTROL VARIABLES
IPRNT      2 PRINT CONTROL
IPLOT      0 PLOT CONTROL
QSCAL      0. HYDROGRAPH PLOT SCALE

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130 HC      HYDROGRAPH COMBINATION
ICOMP      4 NUMBER OF HYDROGRAPHS TO COMBINE

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638

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HYDROGRAPH AT STATION COut
SUM OF 4 HYDROGRAPHS
PLAN 1, RATIO = .62

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*				*				*				*							
DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
*				*				*				*							
1	0000	1	0.	1	0410	51	6095.	1	0820	101	652.	1	1230	151	0.				
1	0005	2	0.	1	0415	52	6695.	1	0825	102	565.	1	1235	152	0.				
1	0010	3	0.	1	0420	53	7305.	1	0830	103	488.	1	1240	153	0.				
1	0015	4	0.	1	0425	54	7886.	1	0835	104	421.	1	1245	154	0.				
1	0020	5	1.	1	0430	55	8407.	1	0840	105	363.	1	1250	155	0.				
1	0025	6	2.	1	0435	56	8865.	1	0845	106	312.	1	1255	156	0.				

1	0030	7	5.	*	1	0440	57	9245.	*	1	0850	107	269.	*	1	1300	157	0.
1	0035	8	8.	*	1	0445	58	9516.	*	1	0855	108	232.	*	1	1305	158	0.
1	0040	9	12.	*	1	0450	59	9688.	*	1	0900	109	200.	*	1	1310	159	0.
1	0045	10	16.	*	1	0455	60	9777.	*	1	0905	110	172.	*	1	1315	160	0.
1	0050	11	22.	*	1	0500	61	9807.	*	1	0910	111	149.	*	1	1320	161	0.
1	0055	12	28.	*	1	0505	62	9794.	*	1	0915	112	128.	*	1	1325	162	0.
1	0100	13	34.	*	1	0510	63	9732.	*	1	0920	113	111.	*	1	1330	163	0.
1	0105	14	39.	*	1	0515	64	9615.	*	1	0925	114	96.	*	1	1335	164	0.
1	0110	15	44.	*	1	0520	65	9453.	*	1	0930	115	83.	*	1	1340	165	0.
1	0115	16	49.	*	1	0525	66	9268.	*	1	0935	116	72.	*	1	1345	166	0.
1	0120	17	55.	*	1	0530	67	9068.	*	1	0940	117	63.	*	1	1350	167	0.
1	0125	18	60.	*	1	0535	68	8865.	*	1	0945	118	55.	*	1	1355	168	0.
1	0130	19	64.	*	1	0540	69	8671.	*	1	0950	119	48.	*	1	1400	169	0.
1	0135	20	68.	*	1	0545	70	8486.	*	1	0955	120	42.	*	1	1405	170	0.
1	0140	21	71.	*	1	0550	71	8300.	*	1	1000	121	36.	*	1	1410	171	0.
1	0145	22	73.	*	1	0555	72	8103.	*	1	1005	122	32.	*	1	1415	172	0.
1	0150	23	73.	*	1	0600	73	7887.	*	1	1010	123	28.	*	1	1420	173	0.
1	0155	24	74.	*	1	0605	74	7641.	*	1	1015	124	24.	*	1	1425	174	0.
1	0200	25	74.	*	1	0610	75	7363.	*	1	1020	125	21.	*	1	1430	175	0.
1	0205	26	74.	*	1	0615	76	7054.	*	1	1025	126	18.	*	1	1435	176	0.
1	0210	27	74.	*	1	0620	77	6717.	*	1	1030	127	16.	*	1	1440	177	0.
1	0215	28	74.	*	1	0625	78	6359.	*	1	1035	128	13.	*	1	1445	178	0.
1	0220	29	75.	*	1	0630	79	5982.	*	1	1040	129	11.	*	1	1450	179	0.
1	0225	30	74.	*	1	0635	80	5589.	*	1	1045	130	10.	*	1	1455	180	0.
1	0230	31	74.	*	1	0640	81	5187.	*	1	1050	131	8.	*	1	1500	181	0.
1	0235	32	73.	*	1	0645	82	4786.	*	1	1055	132	7.	*	1	1505	182	0.
1	0240	33	73.	*	1	0650	83	4391.	*	1	1100	133	6.	*	1	1510	183	0.
1	0245	34	72.	*	1	0655	84	4012.	*	1	1105	134	5.	*	1	1515	184	0.
1	0250	35	72.	*	1	0700	85	3654.	*	1	1110	135	4.	*	1	1520	185	0.
1	0255	36	74.	*	1	0705	86	3322.	*	1	1115	136	4.	*	1	1525	186	0.
1	0300	37	83.	*	1	0710	87	3018.	*	1	1120	137	3.	*	1	1530	187	0.
1	0305	38	103.	*	1	0715	88	2743.	*	1	1125	138	3.	*	1	1535	188	0.
1	0310	39	153.	*	1	0720	89	2495.	*	1	1130	139	2.	*	1	1540	189	0.
1	0315	40	251.	*	1	0725	90	2271.	*	1	1135	140	2.	*	1	1545	190	0.
1	0320	41	413.	*	1	0730	91	2067.	*	1	1140	141	2.	*	1	1550	191	0.
1	0325	42	673.	*	1	0735	92	1880.	*	1	1145	142	1.	*	1	1555	192	0.
1	0330	43	1072.	*	1	0740	93	1706.	*	1	1150	143	1.	*	1	1600	193	0.

1	0335	44	1583.	*	1	0745	94	1542.	*	1	1155	144	1.	*	1	1605	194	0.
1	0340	45	2180.	*	1	0750	95	1388.	*	1	1200	145	1.	*	1	1610	195	0.
1	0345	46	2847.	*	1	0755	96	1242.	*	1	1205	146	1.	*	1	1615	196	0.
1	0350	47	3554.	*	1	0800	97	1105.	*	1	1210	147	0.	*	1	1620	197	0.
1	0355	48	4234.	*	1	0805	98	976.	*	1	1215	148	0.	*	1	1625	198	0.
1	0400	49	4878.	*	1	0810	99	858.	*	1	1220	149	0.	*	1	1630	199	0.
1	0405	50	5491.	*	1	0815	100	750.	*	1	1225	150	0.	*	1	1635	200	0.

**

PEAK FLOW + (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	16.58-HR
+ 9807.	5.00	4550.	1661.	1661.	1661.
	(INCHES)	.515	.520	.520	.520
	(AC-FT)	2256.	2277.	2277.	2277.

640

CUMULATIVE AREA = 82.15 SQ MI

**

HYDROGRAPH AT STATION COut
SUM OF 4 HYDROGRAPHS
PLAN 1, RATIO = .44

**

*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*				
DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

1	0000	1	0.	*	1	0410	51	2833.	*	1	0820	101	220.	*	1	1230	151	0.
1	0005	2	0.	*	1	0415	52	3111.	*	1	0825	102	190.	*	1	1235	152	0.
1	0010	3	0.	*	1	0420	53	3405.	*	1	0830	103	164.	*	1	1240	153	0.
1	0015	4	0.	*	1	0425	54	3695.	*	1	0835	104	141.	*	1	1245	154	0.
1	0020	5	1.	*	1	0430	55	3960.	*	1	0840	105	121.	*	1	1250	155	0.
1	0025	6	1.	*	1	0435	56	4195.	*	1	0845	106	104.	*	1	1255	156	0.
1	0030	7	2.	*	1	0440	57	4387.	*	1	0850	107	89.	*	1	1300	157	0.
1	0035	8	3.	*	1	0445	58	4513.	*	1	0855	108	76.	*	1	1305	158	0.
1	0040	9	4.	*	1	0450	59	4576.	*	1	0900	109	66.	*	1	1310	159	0.
1	0045	10	5.	*	1	0455	60	4583.	*	1	0905	110	57.	*	1	1315	160	0.
1	0050	11	6.	*	1	0500	61	4555.	*	1	0910	111	49.	*	1	1320	161	0.
1	0055	12	7.	*	1	0505	62	4508.	*	1	0915	112	42.	*	1	1325	162	0.
1	0100	13	8.	*	1	0510	63	4440.	*	1	0920	113	36.	*	1	1330	163	0.
1	0105	14	9.	*	1	0515	64	4352.	*	1	0925	114	31.	*	1	1335	164	0.
1	0110	15	11.	*	1	0520	65	4247.	*	1	0930	115	27.	*	1	1340	165	0.
1	0115	16	13.	*	1	0525	66	4131.	*	1	0935	116	24.	*	1	1345	166	0.
1	0120	17	15.	*	1	0530	67	4006.	*	1	0940	117	21.	*	1	1350	167	0.
1	0125	18	17.	*	1	0535	68	3878.	*	1	0945	118	18.	*	1	1355	168	0.
1	0130	19	18.	*	1	0540	69	3753.	*	1	0950	119	16.	*	1	1400	169	0.
1	0135	20	20.	*	1	0545	70	3634.	*	1	0955	120	14.	*	1	1405	170	0.
1	0140	21	22.	*	1	0550	71	3520.	*	1	1000	121	12.	*	1	1410	171	0.
1	0145	22	23.	*	1	0555	72	3407.	*	1	1005	122	11.	*	1	1415	172	0.
1	0150	23	24.	*	1	0600	73	3293.	*	1	1010	123	9.	*	1	1420	173	0.
1	0155	24	25.	*	1	0605	74	3174.	*	1	1015	124	8.	*	1	1425	174	0.
1	0200	25	26.	*	1	0610	75	3047.	*	1	1020	125	7.	*	1	1430	175	0.
1	0205	26	26.	*	1	0615	76	2911.	*	1	1025	126	6.	*	1	1435	176	0.
1	0210	27	27.	*	1	0620	77	2765.	*	1	1030	127	5.	*	1	1440	177	0.
1	0215	28	27.	*	1	0625	78	2610.	*	1	1035	128	4.	*	1	1445	178	0.
1	0220	29	27.	*	1	0630	79	2446.	*	1	1040	129	3.	*	1	1450	179	0.
1	0225	30	28.	*	1	0635	80	2274.	*	1	1045	130	3.	*	1	1455	180	0.
1	0230	31	28.	*	1	0640	81	2097.	*	1	1050	131	2.	*	1	1500	181	0.
1	0235	32	28.	*	1	0645	82	1920.	*	1	1055	132	2.	*	1	1505	182	0.
1	0240	33	29.	*	1	0650	83	1746.	*	1	1100	133	2.	*	1	1510	183	0.
1	0245	34	29.	*	1	0655	84	1579.	*	1	1105	134	1.	*	1	1515	184	0.
1	0250	35	30.	*	1	0700	85	1421.	*	1	1110	135	1.	*	1	1520	185	0.
1	0255	36	30.	*	1	0705	86	1276.	*	1	1115	136	1.	*	1	1525	186	0.
1	0300	37	31.	*	1	0710	87	1143.	*	1	1120	137	1.	*	1	1530	187	0.

1	0305	38	32.	*	1	0715	88	1025.	*	1	1125	138	1.	*	1	1535	188	0.
1	0310	39	42.	*	1	0720	89	920.	*	1	1130	139	1.	*	1	1540	189	0.
1	0315	40	68.	*	1	0725	90	826.	*	1	1135	140	0.	*	1	1545	190	0.
1	0320	41	118.	*	1	0730	91	743.	*	1	1140	141	0.	*	1	1550	191	0.
1	0325	42	215.	*	1	0735	92	668.	*	1	1145	142	0.	*	1	1555	192	0.
1	0330	43	388.	*	1	0740	93	600.	*	1	1150	143	0.	*	1	1600	193	0.
1	0335	44	625.	*	1	0745	94	538.	*	1	1155	144	0.	*	1	1605	194	0.
1	0340	45	916.	*	1	0750	95	481.	*	1	1200	145	0.	*	1	1610	195	0.
1	0345	46	1253.	*	1	0755	96	428.	*	1	1205	146	0.	*	1	1615	196	0.
1	0350	47	1613.	*	1	0800	97	379.	*	1	1210	147	0.	*	1	1620	197	0.
1	0355	48	1953.	*	1	0805	98	333.	*	1	1215	148	0.	*	1	1625	198	0.
1	0400	49	2267.	*	1	0810	99	292.	*	1	1220	149	0.	*	1	1630	199	0.
1	0405	50	2556.	*	1	0815	100	254.	*	1	1225	150	0.	*	1	1635	200	0.
			*			*		*			*							

**

642	PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	16.58-HR
	+	(CFS) (HR)				
		(CFS)				
+	4583.	4.92	1974.	719.	719.	719.
		(INCHES)	.223	.225	.225	.225
		(AC-FT)	979.	986.	986.	986.

CUMULATIVE AREA = 82.15 SQ MI

**

HYDROGRAPH AT STATION COut
SUM OF 4 HYDROGRAPHS
PLAN 1, RATIO = .38

**

		*		*		*		*		*		*		*		*		*	
DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	0000	1	0.	* 1	0410	51	1907.	* 1	0820	101	105.	* 1	1230	151	0.				
1	0005	2	0.	* 1	0415	52	2090.	* 1	0825	102	90.	* 1	1235	152	0.				
1	0010	3	0.	* 1	0420	53	2286.	* 1	0830	103	77.	* 1	1240	153	0.				
1	0015	4	0.	* 1	0425	54	2482.	* 1	0835	104	66.	* 1	1245	154	0.				
1	0020	5	1.	* 1	0430	55	2663.	* 1	0840	105	56.	* 1	1250	155	0.				
1	0025	6	1.	* 1	0435	56	2827.	* 1	0845	106	48.	* 1	1255	156	0.				
1	0030	7	2.	* 1	0440	57	2961.	* 1	0850	107	41.	* 1	1300	157	0.				
1	0035	8	2.	* 1	0445	58	3049.	* 1	0855	108	35.	* 1	1305	158	0.				
1	0040	9	3.	* 1	0450	59	3085.	* 1	0900	109	30.	* 1	1310	159	0.				
1	0045	10	4.	* 1	0455	60	3078.	* 1	0905	110	26.	* 1	1315	160	0.				
1	0050	11	5.	* 1	0500	61	3044.	* 1	0910	111	22.	* 1	1320	161	0.				
1	0055	12	6.	* 1	0505	62	2995.	* 1	0915	112	19.	* 1	1325	162	0.				
1	0100	13	7.	* 1	0510	63	2933.	* 1	0920	113	16.	* 1	1330	163	0.				
1	0105	14	8.	* 1	0515	64	2860.	* 1	0925	114	14.	* 1	1335	164	0.				
1	0110	15	9.	* 1	0520	65	2777.	* 1	0930	115	12.	* 1	1340	165	0.				
1	0115	16	11.	* 1	0525	66	2687.	* 1	0935	116	11.	* 1	1345	166	0.				
1	0120	17	13.	* 1	0530	67	2591.	* 1	0940	117	9.	* 1	1350	167	0.				
1	0125	18	14.	* 1	0535	68	2492.	* 1	0945	118	8.	* 1	1355	168	0.				
1	0130	19	16.	* 1	0540	69	2394.	* 1	0950	119	7.	* 1	1400	169	0.				
1	0135	20	17.	* 1	0545	70	2301.	* 1	0955	120	6.	* 1	1405	170	0.				
1	0140	21	19.	* 1	0550	71	2212.	* 1	1000	121	6.	* 1	1410	171	0.				
1	0145	22	20.	* 1	0555	72	2126.	* 1	1005	122	5.	* 1	1415	172	0.				
1	0150	23	21.	* 1	0600	73	2043.	* 1	1010	123	4.	* 1	1420	173	0.				
1	0155	24	21.	* 1	0605	74	1960.	* 1	1015	124	4.	* 1	1425	174	0.				
1	0200	25	22.	* 1	0610	75	1876.	* 1	1020	125	3.	* 1	1430	175	0.				
1	0205	26	23.	* 1	0615	76	1788.	* 1	1025	126	3.	* 1	1435	176	0.				
1	0210	27	23.	* 1	0620	77	1695.	* 1	1030	127	2.	* 1	1440	177	0.				
1	0215	28	23.	* 1	0625	78	1596.	* 1	1035	128	2.	* 1	1445	178	0.				
1	0220	29	24.	* 1	0630	79	1490.	* 1	1040	129	1.	* 1	1450	179	0.				
1	0225	30	24.	* 1	0635	80	1379.	* 1	1045	130	1.	* 1	1455	180	0.				
1	0230	31	24.	* 1	0640	81	1264.	* 1	1050	131	1.	* 1	1500	181	0.				

643

1	0235	32	25.	*	1	0645	82	1149.	*	1	1055	132	1.	*	1	1505	182	0.
1	0240	33	25.	*	1	0650	83	1035.	*	1	1100	133	0.	*	1	1510	183	0.
1	0245	34	25.	*	1	0655	84	926.	*	1	1105	134	0.	*	1	1515	184	0.
1	0250	35	26.	*	1	0700	85	823.	*	1	1110	135	0.	*	1	1520	185	0.
1	0255	36	26.	*	1	0705	86	729.	*	1	1115	136	0.	*	1	1525	186	0.
1	0300	37	27.	*	1	0710	87	644.	*	1	1120	137	0.	*	1	1530	187	0.
1	0305	38	27.	*	1	0715	88	569.	*	1	1125	138	0.	*	1	1535	188	0.
1	0310	39	33.	*	1	0720	89	502.	*	1	1130	139	0.	*	1	1540	189	0.
1	0315	40	47.	*	1	0725	90	443.	*	1	1135	140	0.	*	1	1545	190	0.
1	0320	41	72.	*	1	0730	91	392.	*	1	1140	141	0.	*	1	1550	191	0.
1	0325	42	129.	*	1	0735	92	347.	*	1	1145	142	0.	*	1	1555	192	0.
1	0330	43	237.	*	1	0740	93	308.	*	1	1150	143	0.	*	1	1600	193	0.
1	0335	44	391.	*	1	0745	94	272.	*	1	1155	144	0.	*	1	1605	194	0.
1	0340	45	585.	*	1	0750	95	241.	*	1	1200	145	0.	*	1	1610	195	0.
1	0345	46	818.	*	1	0755	96	212.	*	1	1205	146	0.	*	1	1615	196	0.
1	0350	47	1070.	*	1	0800	97	186.	*	1	1210	147	0.	*	1	1620	197	0.
1	0355	48	1309.	*	1	0805	98	162.	*	1	1215	148	0.	*	1	1625	198	0.
1	0400	49	1527.	*	1	0810	99	141.	*	1	1220	149	0.	*	1	1630	199	0.
1	0405	50	1723.	*	1	0815	100	122.	*	1	1225	150	0.	*	1	1635	200	0.
			*			*		*			*							

**

+ (CFS)	PEAK FLOW (HR)	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	16.58-HR
+ 3085.	4.83	1259.	459.	459.	459.
	(INCHES)	.142	.144	.144	.144
	(AC-FT)	624.	629.	629.	629.

CUMULATIVE AREA = 82.15 SQ MI

**

HYDROGRAPH AT STATION COut
SUM OF 4 HYDROGRAPHS
PLAN 1, RATIO = .32

**

645

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	0000	1	0.	* 1	0410	51	1060.	* 1	0820	101	42.	* 1	1230	151	0.				
1	0005	2	0.	* 1	0415	52	1163.	* 1	0825	102	36.	* 1	1235	152	0.				
1	0010	3	0.	* 1	0420	53	1275.	* 1	0830	103	31.	* 1	1240	153	0.				
1	0015	4	0.	* 1	0425	54	1389.	* 1	0835	104	27.	* 1	1245	154	0.				
1	0020	5	0.	* 1	0430	55	1498.	* 1	0840	105	23.	* 1	1250	155	0.				
1	0025	6	1.	* 1	0435	56	1598.	* 1	0845	106	20.	* 1	1255	156	0.				
1	0030	7	1.	* 1	0440	57	1685.	* 1	0850	107	17.	* 1	1300	157	0.				
1	0035	8	2.	* 1	0445	58	1743.	* 1	0855	108	15.	* 1	1305	158	0.				
1	0040	9	3.	* 1	0450	59	1768.	* 1	0900	109	13.	* 1	1310	159	0.				
1	0045	10	3.	* 1	0455	60	1764.	* 1	0905	110	11.	* 1	1315	160	0.				
1	0050	11	4.	* 1	0500	61	1742.	* 1	0910	111	10.	* 1	1320	161	0.				
1	0055	12	5.	* 1	0505	62	1710.	* 1	0915	112	9.	* 1	1325	162	0.				
1	0100	13	6.	* 1	0510	63	1672.	* 1	0920	113	8.	* 1	1330	163	0.				
1	0105	14	7.	* 1	0515	64	1627.	* 1	0925	114	7.	* 1	1335	164	0.				
1	0110	15	8.	* 1	0520	65	1576.	* 1	0930	115	6.	* 1	1340	165	0.				
1	0115	16	9.	* 1	0525	66	1522.	* 1	0935	116	5.	* 1	1345	166	0.				
1	0120	17	11.	* 1	0530	67	1463.	* 1	0940	117	5.	* 1	1350	167	0.				
1	0125	18	12.	* 1	0535	68	1403.	* 1	0945	118	4.	* 1	1355	168	0.				
1	0130	19	13.	* 1	0540	69	1342.	* 1	0950	119	4.	* 1	1400	169	0.				
1	0135	20	15.	* 1	0545	70	1283.	* 1	0955	120	3.	* 1	1405	170	0.				
1	0140	21	16.	* 1	0550	71	1228.	* 1	1000	121	3.	* 1	1410	171	0.				
1	0145	22	17.	* 1	0555	72	1176.	* 1	1005	122	3.	* 1	1415	172	0.				
1	0150	23	17.	* 1	0600	73	1128.	* 1	1010	123	2.	* 1	1420	173	0.				

1	0155	24	18.	*	1	0605	74	1082.	*	1	1015	124	2.	*	1	1425	174	0.
1	0200	25	19.	*	1	0610	75	1037.	*	1	1020	125	2.	*	1	1430	175	0.
1	0205	26	19.	*	1	0615	76	990.	*	1	1025	126	1.	*	1	1435	176	0.
1	0210	27	19.	*	1	0620	77	941.	*	1	1030	127	1.	*	1	1440	177	0.
1	0215	28	20.	*	1	0625	78	887.	*	1	1035	128	1.	*	1	1445	178	0.
1	0220	29	20.	*	1	0630	79	829.	*	1	1040	129	1.	*	1	1450	179	0.
1	0225	30	20.	*	1	0635	80	768.	*	1	1045	130	1.	*	1	1455	180	0.
1	0230	31	20.	*	1	0640	81	703.	*	1	1050	131	0.	*	1	1500	181	0.
1	0235	32	21.	*	1	0645	82	636.	*	1	1055	132	0.	*	1	1505	182	0.
1	0240	33	21.	*	1	0650	83	571.	*	1	1100	133	0.	*	1	1510	183	0.
1	0245	34	21.	*	1	0655	84	508.	*	1	1105	134	0.	*	1	1515	184	0.
1	0250	35	22.	*	1	0700	85	448.	*	1	1110	135	0.	*	1	1520	185	0.
1	0255	36	22.	*	1	0705	86	392.	*	1	1115	136	0.	*	1	1525	186	0.
1	0300	37	22.	*	1	0710	87	342.	*	1	1120	137	0.	*	1	1530	187	0.
1	0305	38	23.	*	1	0715	88	297.	*	1	1125	138	0.	*	1	1535	188	0.
1	0310	39	24.	*	1	0720	89	257.	*	1	1130	139	0.	*	1	1540	189	0.
1	0315	40	27.	*	1	0725	90	222.	*	1	1135	140	0.	*	1	1545	190	0.
1	0320	41	32.	*	1	0730	91	191.	*	1	1140	141	0.	*	1	1550	191	0.
1	0325	42	51.	*	1	0735	92	165.	*	1	1145	142	0.	*	1	1555	192	0.
1	0330	43	101.	*	1	0740	93	142.	*	1	1150	143	0.	*	1	1600	193	0.
1	0335	44	178.	*	1	0745	94	122.	*	1	1155	144	0.	*	1	1605	194	0.
1	0340	45	282.	*	1	0750	95	105.	*	1	1200	145	0.	*	1	1610	195	0.
1	0345	46	415.	*	1	0755	96	91.	*	1	1205	146	0.	*	1	1615	196	0.
1	0350	47	564.	*	1	0800	97	78.	*	1	1210	147	0.	*	1	1620	197	0.
1	0355	48	709.	*	1	0805	98	67.	*	1	1215	148	0.	*	1	1625	198	0.
1	0400	49	840.	*	1	0810	99	57.	*	1	1220	149	0.	*	1	1630	199	0.
1	0405	50	955.	*	1	0815	100	49.	*	1	1225	150	0.	*	1	1635	200	0.
			*			*		*			*							

**

PEAK FLOW + (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	16.58-HR
+ 1768.	4.83	698.	255.	255.	255.

(INCHES) .079 .080 .080 .080
 (AC-FT) 346. 349. 349. 349.

CUMULATIVE AREA = 82.15 SQ MI

 **

HYDROGRAPH AT STATION COut
 SUM OF 4 HYDROGRAPHS
 PLAN 1, RATIO = .26

 **

647

	*				*				*				*						
DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
			*				*					*					*		
1	0000	1	0.	* 1	0410	51	475.	* 1	0820	101	22.	* 1	1230	151	0.				
1	0005	2	0.	* 1	0415	52	521.	* 1	0825	102	18.	* 1	1235	152	0.				
1	0010	3	0.	* 1	0420	53	570.	* 1	0830	103	16.	* 1	1240	153	0.				
1	0015	4	0.	* 1	0425	54	622.	* 1	0835	104	14.	* 1	1245	154	0.				
1	0020	5	0.	* 1	0430	55	672.	* 1	0840	105	12.	* 1	1250	155	0.				
1	0025	6	1.	* 1	0435	56	719.	* 1	0845	106	10.	* 1	1255	156	0.				
1	0030	7	1.	* 1	0440	57	761.	* 1	0850	107	9.	* 1	1300	157	0.				
1	0035	8	2.	* 1	0445	58	789.	* 1	0855	108	8.	* 1	1305	158	0.				
1	0040	9	2.	* 1	0450	59	802.	* 1	0900	109	7.	* 1	1310	159	0.				
1	0045	10	3.	* 1	0455	60	800.	* 1	0905	110	6.	* 1	1315	160	0.				
1	0050	11	3.	* 1	0500	61	790.	* 1	0910	111	5.	* 1	1320	161	0.				
1	0055	12	4.	* 1	0505	62	776.	* 1	0915	112	4.	* 1	1325	162	0.				
1	0100	13	5.	* 1	0510	63	759.	* 1	0920	113	4.	* 1	1330	163	0.				
1	0105	14	6.	* 1	0515	64	740.	* 1	0925	114	3.	* 1	1335	164	0.				
1	0110	15	6.	* 1	0520	65	719.	* 1	0930	115	3.	* 1	1340	165	0.				
1	0115	16	8.	* 1	0525	66	697.	* 1	0935	116	3.	* 1	1345	166	0.				
1	0120	17	9.	* 1	0530	67	672.	* 1	0940	117	2.	* 1	1350	167	0.				

1	0125	18	10.	*	1	0535	68	646.	*	1	0945	118	2.	*	1	1355	168	0.
1	0130	19	11.	*	1	0540	69	619.	*	1	0950	119	2.	*	1	1400	169	0.
1	0135	20	12.	*	1	0545	70	593.	*	1	0955	120	2.	*	1	1405	170	0.
1	0140	21	13.	*	1	0550	71	568.	*	1	1000	121	1.	*	1	1410	171	0.
1	0145	22	13.	*	1	0555	72	545.	*	1	1005	122	1.	*	1	1415	172	0.
1	0150	23	14.	*	1	0600	73	524.	*	1	1010	123	1.	*	1	1420	173	0.
1	0155	24	15.	*	1	0605	74	504.	*	1	1015	124	1.	*	1	1425	174	0.
1	0200	25	15.	*	1	0610	75	485.	*	1	1020	125	1.	*	1	1430	175	0.
1	0205	26	15.	*	1	0615	76	465.	*	1	1025	126	1.	*	1	1435	176	0.
1	0210	27	16.	*	1	0620	77	444.	*	1	1030	127	1.	*	1	1440	177	0.
1	0215	28	16.	*	1	0625	78	421.	*	1	1035	128	0.	*	1	1445	178	0.
1	0220	29	16.	*	1	0630	79	396.	*	1	1040	129	0.	*	1	1450	179	0.
1	0225	30	16.	*	1	0635	80	369.	*	1	1045	130	0.	*	1	1455	180	0.
1	0230	31	17.	*	1	0640	81	340.	*	1	1050	131	0.	*	1	1500	181	0.
1	0235	32	17.	*	1	0645	82	309.	*	1	1055	132	0.	*	1	1505	182	0.
1	0240	33	17.	*	1	0650	83	279.	*	1	1100	133	0.	*	1	1510	183	0.
1	0245	34	17.	*	1	0655	84	249.	*	1	1105	134	0.	*	1	1515	184	0.
1	0250	35	18.	*	1	0700	85	220.	*	1	1110	135	0.	*	1	1520	185	0.
1	0255	36	18.	*	1	0705	86	194.	*	1	1115	136	0.	*	1	1525	186	0.
1	0300	37	18.	*	1	0710	87	170.	*	1	1120	137	0.	*	1	1530	187	0.
1	0305	38	19.	*	1	0715	88	148.	*	1	1125	138	0.	*	1	1535	188	0.
1	0310	39	19.	*	1	0720	89	128.	*	1	1130	139	0.	*	1	1540	189	0.
1	0315	40	19.	*	1	0725	90	111.	*	1	1135	140	0.	*	1	1545	190	0.
1	0320	41	20.	*	1	0730	91	96.	*	1	1140	141	0.	*	1	1550	191	0.
1	0325	42	25.	*	1	0735	92	83.	*	1	1145	142	0.	*	1	1555	192	0.
1	0330	43	43.	*	1	0740	93	72.	*	1	1150	143	0.	*	1	1600	193	0.
1	0335	44	76.	*	1	0745	94	62.	*	1	1155	144	0.	*	1	1605	194	0.
1	0340	45	119.	*	1	0750	95	53.	*	1	1200	145	0.	*	1	1610	195	0.
1	0345	46	176.	*	1	0755	96	46.	*	1	1205	146	0.	*	1	1615	196	0.
1	0350	47	244.	*	1	0800	97	40.	*	1	1210	147	0.	*	1	1620	197	0.
1	0355	48	312.	*	1	0805	98	34.	*	1	1215	148	0.	*	1	1625	198	0.
1	0400	49	374.	*	1	0810	99	29.	*	1	1220	149	0.	*	1	1630	199	0.
1	0405	50	427.	*	1	0815	100	25.	*	1	1225	150	0.	*	1	1635	200	0.
			*			*					*							

**

PEAK FLOW (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	16.58-HR
+ 802.	4.83	322.	118.	118.	118.
	(INCHES)	.036	.037	.037	.037
	(AC-FT)	160.	162.	162.	162.

CUMULATIVE AREA = 82.15 SQ MI

1

PEAK FLOW AND STAGE (END-OF-PERIOD) SUMMARY FOR MULTIPLE PLAN-RATIO ECONOMIC COMPUTATIONS
 FLOWS IN CUBIC FEET PER SECOND, AREA IN SQUARE MILES
 TIME TO PEAK IN HOURS

649

OPERATION	STATION	AREA	PLAN	RATIOS APPLIED TO PRECIPITATION				
				RATIO 1	RATIO 2	RATIO 3	RATIO 4	RATIO 5
		.62	.44	.38	.32	.26		

HYDROGRAPH AT

+ WSage	7.86	1	FLOW	2322.	1226.	889.	553.	272.
	TIME			3.92	4.00	4.00	4.00	4.00

ROUTED TO

+ RWsage	7.86	1	FLOW	1932.	994.	712.	439.	216.
	TIME			5.00	5.00	5.00	5.08	5.08

HYDROGRAPH AT

+ RFan	12.56	1	FLOW	1894.	886.	586.	322.	138.
	TIME			4.58	4.58	4.58	4.58	4.67

HYDROGRAPH AT

+ NWest	12.27	1	FLOW	3258.	1668.	1185.	721.	347.
	TIME			4.00	4.00	4.08	4.08	4.08

3 COMBINED AT

+ CRfan 32.69 1 FLOW 4867. 2371. 1632. 956. 449.
TIME 4.25 4.17 4.17 4.17 4.17

ROUTED TO

+ RCRfan 32.69 1 FLOW 4688. 2246. 1535. 896. 416.
TIME 5.42 5.33 5.33 5.33 5.33

HYDROGRAPH AT

+ WCent 9.40 1 FLOW 3249. 1725. 1234. 747. 360.
TIME 3.83 3.83 3.83 3.83 3.92

ROUTED TO

+ RCWCent 9.40 1 FLOW 2817. 1456. 1036. 630. 302.
TIME 4.25 4.33 4.33 4.33 4.33

HYDROGRAPH AT

650 + Fplain 10.61 1 FLOW 1970. 929. 611. 336. 141.
TIME 4.25 4.25 4.33 4.33 4.33

3 COMBINED AT

+ CFplain 52.71 1 FLOW 6346. 2898. 1985. 1149. 527.
TIME 5.42 4.58 4.50 4.50 4.83

ROUTED TO

+ RCFplain 52.71 1 FLOW 6286. 2883. 1965. 1139. 524.
TIME 5.83 5.17 5.17 5.17 5.25

HYDROGRAPH AT

+ SCen 7.56 1 FLOW 1947. 963. 650. 367. 164.
TIME 4.00 4.00 4.00 4.08 4.08

HYDROGRAPH AT

+ HVal 11.14 1 FLOW 2156. 1012. 663. 361. 146.
TIME 4.25 4.25 4.25 4.25 4.25

ROUTED TO

+ RHval 11.14 1 FLOW 1978. 921. 601. 328. 133.
TIME 5.00 5.00 5.00 5.08 5.08

HYDROGRAPH AT

+ SOct 10.75 1 FLOW 2257. 1137. 807. 490. 234.
TIME 4.25 4.25 4.25 4.33 4.33

4 COMBINED AT

+ COut 82.15 1 FLOW 9807. 4583. 3085. 1768. 802.
TIME 5.00 4.92 4.83 4.83 4.83

HYDROGRAPH AT

+ SEast 3.71 1 FLOW 1264. 662. 465. 275. 129.
TIME 3.83 3.83 3.83 3.83 3.92

HYDROGRAPH AT

+ SWest 2.16 1 FLOW 969. 507. 349. 200. 76.
TIME 3.67 3.67 3.67 3.67 3.67

3 COMBINED AT

+ CTotal 88.02 1 FLOW 10346. 4705. 3128. 1790. 814.
TIME 5.00 4.92 4.83 4.83 4.83

*** NORMAL END OF HEC-1 ***

NOTE: Flowrates calculated in cfs

```

1*****
*                                     *
* FLOOD HYDROGRAPH PACKAGE (HEC-1) *
*   JUN 1998                         *
*   VERSION 4.1                       *
*                                     *
* RUN DATE 13AUG10 TIME 14:26:05 *
*                                     *
*****
*                                     *
*                                     *
* U.S. ARMY CORPS OF ENGINEERS *
* HYDROLOGIC ENGINEERING CENTER *
*   609 SECOND STREET           *
* DAVIS, CALIFORNIA 95616      *
*   (916) 756-1104             *
*                                     *
*****

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X X XXXXXXXX XXXXX X
X X X X X XX
X X X X X
XXXXXXXX XXXX X XXXXX X
X X X X X
X X X X X
X X XXXXXXXX XXXXX XXX

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THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE.

THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION
NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY,
DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL LOSS RATE:GREEN AND AMPT INFILTRATION
KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

*DIAGRAM

*** FREE ***

```

1 ID *****
2 ID * .....*
3 ID * : :*
4 ID * : EFFECT OF SPATIAL AND TEMPORAL VARIABILITY :*
5 ID * : OF ANTECEDENT MOISTURE CONTENT ON :*
6 ID * : MODEL-GENERATED RUNOFF :*
7 ID * : FROM AN ARID WATERSHED :*
8 ID * : :*
9 ID * : .....*
10 ID * : RETURN PERIOD__ 100-YEAR :*
11 ID * : DISTRIBUTION__ 6-HOUR SDN 5 :*
12 ID * : FILENAME_____ 5_day_Keff4.h1 :*
13 ID * : DATE_____ 08/9/10 :*
14 ID * : MODELED BY_____ WJM :*
15 ID * : .....*
16 ID *****
17 ID * : :*
18 ID * : 1. Total watershed area is 88 sq. mi. :*
19 ID * : 2. DARF is 0.62 for area :*
20 ID * : 3. 500 Year Precip. Value is 3.02 in. :*
21 ID * : 4. 500 Year DARF value 0.62 :*
22 ID * : 5. 100 Year DARF value 0.44 :*
23 ID * : 6. 50 Year DARF value 0.38 :*
24 ID * : 7. 25 Year DARF value 0.32 :*
25 ID * : 8. 10 Year DARF Value 0.26 :*
26 ID * : 9. USBR lag time :*
27 ID * : .....*
28 ID *****
29 ID
30 IT 5 0000 000 200
31 IO 5
32 IN 5 0 0

```

653

33 JR PREC 0.62 0.44 0.38 0.32 0.26
 34 KK WSage
 35 KM White Sage Gap
 36 BA 7.859
 37 PB 3.02
 38 PC 0.000 0.020 0.059 0.080 0.110 0.144 0.150 0.160 0.168 0.171
 39 PC 0.180 0.182 0.187 0.190 0.197 0.202 0.210 0.220 0.230 0.241
 40 PC 0.250 0.259 0.265 0.280 0.290 0.300 0.305 0.309 0.310 0.317
 41 PC 0.321 0.327 0.333 0.346 0.361 0.381 0.408 0.430 0.477 0.514
 42 PC 0.561 0.630 0.710 0.720 0.731 0.752 0.779 0.790 0.795 0.804
 43 PC 0.810 0.820 0.826 0.840 0.859 0.889 0.910 0.938 0.966 0.970
 44 PC 0.974 0.979 0.981 0.983 0.985 0.989 0.990 0.992 0.993 0.996
 45 PC 0.997 0.999 1.000
 46 KM Ia Deficit Cap Ks IMP
 47 LG 0.046 0.527 7.082 0.230 0.855
 48 UD 0.60

*

654 1

HEC-1 INPUT

PAGE 2

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

49 KK RWsage
 50 KM Route WSage through RFan
 51 KM N K X
 52 RM 12 1.03 0.15

*

53 KK RFan
 54 KM Red Alluvial Fan
 55 BA 12.565
 56 PB 3.02
 57 KM Ia Deficit Cap Ks IMP
 58 LG 0.038 0.521 7.807 0.264 0.277
 59 UD 1.19

*

60 KK NWest
 61 KM North west mountains
 62 BA 12.269
 63 PB 3.02
 64 KM Ia Deficit Cap Ks IMP
 65 LG 0.036 0.515 6.923 0.239 0.552
 66 UD 0.67
 *
 67 KK CRfan
 68 KM Redfan concentration point
 69 KO 2
 70 HC 3
 *
 71 KK RCRfan
 72 KM Route Redfan concentration point
 73 KM N K X
 74 RM 11 0.94 0.15
 *
 75 KK WCent
 76 KM West central mountains
 77 BA 9.403
 78 PB 3.02
 79 KM Ia Deficit Cap Ks IMP
 80 LG 0.042 0.530 7.215 0.239 0.407
 81 UD 0.46
 *
 82 KK RCWCent
 83 KM Route CWCent along west side of floodplain
 84 KM N K X
 85 RM 5 0.45 0.15
 *

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

86 KK Fplain
87 KM Floodplain
88 BA 10.614
89 PB 3.02
90 KM Ia Deficit Cap Ks IMP
91 LG 0.043 0.566 7.590 0.271 0.245
92 UD 0.92

*

93 KK CFplain
94 KO 2
95 HC 3

*

656

96 KKRCFplain
97 KM Route Flood plain concentration point
98 KM N K X
99 RM 5 0.44 0.15

*

100 KK SCen
101 KM South central mountains
102 BA 7.562
103 PB 3.02
104 KM Ia Deficit Cap Ks IMP
105 LG 0.041 0.551 7.499 0.258 0.247
106 UD 0.64

*

107 KK HVal
108 KM High valley on east side of watershed
109 BA 11.137
110 PB 3.02

111 KM Ia Deficit Cap Ks IMP
112 LG 0.049 0.540 7.901 0.278 0.630
113 UD 0.86
114 KO 2

*

115 KK RHval
116 KM Route High Valley basin
117 KM N K X
118 RM 9 0.75 0.15

*

119 KK SOct
120 KM South octagon area and east mountains
121 BA 10.746
122 PB 3.02
123 KM Ia Deficit Cap Ks IMP
124 LG 0.039 0.517 6.882 0.234 0.246
125 UD 0.92

*

657

1

HEC-1 INPUT

PAGE 4

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

126 KK COut
127 KO 2
128 HC 4

*

129 KK SEast
130 KM Southeast adjacent basin
131 BA 3.707
132 PB 3.02
133 KM Ia Deficit Cap Ks IMP
134 LG 0.044 0.531 7.591 0.248 0.653
135 UD 0.45

```

*
136   KK SWest
137   KM South west adjacent basin
138   BA 2.156
139   PB 3.02
140   KM Ia Deficit Cap Ks IMP
141   LG 0.039 0.553 7.215 0.274 0.680
142   UD 0.25
*
143   KK CTotal
144   KM KO 2
145   HC 3
*
146   ZZ

```

1

SCHEMATIC DIAGRAM OF STREAM NETWORK

858

```

INPUT
LINE (V) ROUTING (--->) DIVERSION OR PUMP FLOW

NO. (.) CONNECTOR (<---) RETURN OF DIVERTED OR PUMPED FLOW

34 WSage
   V
   V
49 RWSage
   .
   .
53 . RFan
   .
   .
60 . . NWest
   .
   .
67 CRfan.....
   V

```

71	V	RCRfan	
	.		
75	.	WCent	
	.	V	
	.	V	
82	.	RCWCent	
	.	.	
86	.	.	Fplain
	.	.	.
93	CFplain.....		
	V		
	V		
96	RCFplain		
	.		
100	.	SCen	
	.	.	
107	.	.	HVal
	.	.	V
	.	.	V
115	.	.	RHval
	.	.	.
119	.	.	SOct
	.	.	.
	.	.	.
126	COut.....		
	.		
129	.	SEast	
	.	.	
	.	.	

136 . . . SWest

143 CTotal.....

(***) RUNOFF ALSO COMPUTED AT THIS LOCATION

```

|*****
*
* FLOOD HYDROGRAPH PACKAGE (HEC-1) *
*   JUN 1998 *
*   VERSION 4.1 *
*
* RUN DATE 13AUG10 TIME 14:26:05 *
*
*****
*
* U.S. ARMY CORPS OF ENGINEERS *
*   HYDROLOGIC ENGINEERING CENTER *
*   609 SECOND STREET *
*   DAVIS, CALIFORNIA 95616 *
*   (916) 756-1104 *
*
*****

```

069

```

*****
*
* ..... *
* : *
* : EFFECT OF SPATIAL AND TEMPORAL VARIABILITY : *
* : OF ANTECEDENT MOISTURE CONTENT ON : *
* : MODEL-GENERATED RUNOFF : *
* : FROM AN ARID WATERSHED : *
* : *
* : ..... *
* : RETURN PERIOD_ _ 100-YEAR : *
* : DISTRIBUTION_ _ 6-HOUR SDN 5 : *
* : FILENAME_ _ 5_day_Keff4.h1 : *
* : DATE_ _ 08/9/10 : *
* : MODELED BY_ _ WJM : *
* : ..... *
*****
* : *

```



```

* : 1. Total watershed area is 88 sq. mi.      : *
* : 2. DARF is 0.62 for area                  : *
* : 3. 500 Year Precip. Value is 3.02 in.     : *
* : 4. 500 Year DARF value 0.62              : *
* : 5. 100 Year DARF value 0.44              : *
* : 6. 50 Year DARF value 0.38              : *
* : 7. 25 Year DARF value 0.32              : *
* : 8. 10 Year DARF Value 0.26              : *
* : 9. USBR lag time                          : *
* .....: *
*****

```

```

31 IO  OUTPUT CONTROL VARIABLES
      IPRNT    5 PRINT CONTROL
      IPLOT    0 PLOT CONTROL
      QSCAL    0. HYDROGRAPH PLOT SCALE

```

```

1961 IT  HYDROGRAPH TIME DATA
      NMIN     5 MINUTES IN COMPUTATION INTERVAL
      IDATE    1 00 0 STARTING DATE
      ITIME    0000 STARTING TIME
      NQ       200 NUMBER OF HYDROGRAPH ORDINATES
      NDDATE   1 0 ENDING DATE
      NDTIME   1635 ENDING TIME
      ICENT    19 CENTURY MARK

```

```

COMPUTATION INTERVAL .08 HOURS
TOTAL TIME BASE 16.58 HOURS

```

```

ENGLISH UNITS
DRAINAGE AREA    SQUARE MILES
PRECIPITATION DEPTH  INCHES
LENGTH, ELEVATION  FEET
FLOW              CUBIC FEET PER SECOND
STORAGE VOLUME    ACRE-FEET
SURFACE AREA      ACRES

```

TEMPERATURE DEGREES FAHRENHEIT

JP MULTI-PLAN OPTION
 NPLAN 1 NUMBER OF PLANS

JR MULTI-RATIO OPTION
 RATIOS OF PRECIPITATION
 .62 .44 .38 .32 .26

* *
67 KK * CRfan *
* *

69 KO OUTPUT CONTROL VARIABLES
 IPRNT 2 PRINT CONTROL
 IPLOT 0 PLOT CONTROL
 QSCAL 0. HYDROGRAPH PLOT SCALE

70 HC HYDROGRAPH COMBINATION
 ICOMP 3 NUMBER OF HYDROGRAPHS TO COMBINE

**

HYDROGRAPH AT STATION CRfan
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .62

662

**

*				*				*				*							
DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	0000	1	0.	*	1	0410	51	1209.	*	1	0820	101	5.	*	1	1230	151	0.	
1	0005	2	0.	*	1	0415	52	1206.	*	1	0825	102	4.	*	1	1235	152	0.	
1	0010	3	0.	*	1	0420	53	1181.	*	1	0830	103	4.	*	1	1240	153	0.	
1	0015	4	1.	*	1	0425	54	1144.	*	1	0835	104	4.	*	1	1245	154	0.	
1	0020	5	2.	*	1	0430	55	1092.	*	1	0840	105	3.	*	1	1250	155	0.	
1	0025	6	4.	*	1	0435	56	1050.	*	1	0845	106	3.	*	1	1255	156	0.	
1	0030	7	6.	*	1	0440	57	1040.	*	1	0850	107	3.	*	1	1300	157	0.	
1	0035	8	8.	*	1	0445	58	1045.	*	1	0855	108	2.	*	1	1305	158	0.	
1	0040	9	11.	*	1	0450	59	1050.	*	1	0900	109	2.	*	1	1310	159	0.	
1	0045	10	13.	*	1	0455	60	1048.	*	1	0905	110	2.	*	1	1315	160	0.	
1	0050	11	15.	*	1	0500	61	1029.	*	1	0910	111	1.	*	1	1320	161	0.	
1	0055	12	16.	*	1	0505	62	991.	*	1	0915	112	1.	*	1	1325	162	0.	
1	0100	13	17.	*	1	0510	63	934.	*	1	0920	113	1.	*	1	1330	163	0.	
1	0105	14	17.	*	1	0515	64	859.	*	1	0925	114	0.	*	1	1335	164	0.	
1	0110	15	18.	*	1	0520	65	771.	*	1	0930	115	0.	*	1	1340	165	0.	
1	0115	16	18.	*	1	0525	66	680.	*	1	0935	116	0.	*	1	1345	166	0.	
1	0120	17	19.	*	1	0530	67	592.	*	1	0940	117	0.	*	1	1350	167	0.	
1	0125	18	19.	*	1	0535	68	512.	*	1	0945	118	0.	*	1	1355	168	0.	
1	0130	19	20.	*	1	0540	69	441.	*	1	0950	119	0.	*	1	1400	169	0.	
1	0135	20	21.	*	1	0545	70	377.	*	1	0955	120	0.	*	1	1405	170	0.	
1	0140	21	22.	*	1	0550	71	323.	*	1	1000	121	0.	*	1	1410	171	0.	
1	0145	22	23.	*	1	0555	72	278.	*	1	1005	122	0.	*	1	1415	172	0.	
1	0150	23	24.	*	1	0600	73	240.	*	1	1010	123	0.	*	1	1420	173	0.	
1	0155	24	25.	*	1	0605	74	206.	*	1	1015	124	0.	*	1	1425	174	0.	
1	0200	25	25.	*	1	0610	75	178.	*	1	1020	125	0.	*	1	1430	175	0.	
1	0205	26	25.	*	1	0615	76	154.	*	1	1025	126	0.	*	1	1435	176	0.	
1	0210	27	24.	*	1	0620	77	134.	*	1	1030	127	0.	*	1	1440	177	0.	
1	0215	28	24.	*	1	0625	78	116.	*	1	1035	128	0.	*	1	1445	178	0.	
1	0220	29	23.	*	1	0630	79	101.	*	1	1040	129	0.	*	1	1450	179	0.	
1	0225	30	23.	*	1	0635	80	87.	*	1	1045	130	0.	*	1	1455	180	0.	

663

1	0230	31	22.	*	1	0640	81	75.	*	1	1050	131	0.	*	1	1500	181	0.
1	0235	32	21.	*	1	0645	82	65.	*	1	1055	132	0.	*	1	1505	182	0.
1	0240	33	21.	*	1	0650	83	56.	*	1	1100	133	0.	*	1	1510	183	0.
1	0245	34	20.	*	1	0655	84	48.	*	1	1105	134	0.	*	1	1515	184	0.
1	0250	35	20.	*	1	0700	85	41.	*	1	1110	135	0.	*	1	1520	185	0.
1	0255	36	19.	*	1	0705	86	36.	*	1	1115	136	0.	*	1	1525	186	0.
1	0300	37	20.	*	1	0710	87	31.	*	1	1120	137	0.	*	1	1530	187	0.
1	0305	38	20.	*	1	0715	88	27.	*	1	1125	138	0.	*	1	1535	188	0.
1	0310	39	21.	*	1	0720	89	24.	*	1	1130	139	0.	*	1	1540	189	0.
1	0315	40	22.	*	1	0725	90	21.	*	1	1135	140	0.	*	1	1545	190	0.
1	0320	41	24.	*	1	0730	91	18.	*	1	1140	141	0.	*	1	1550	191	0.
1	0325	42	44.	*	1	0735	92	15.	*	1	1145	142	0.	*	1	1555	192	0.
1	0330	43	110.	*	1	0740	93	14.	*	1	1150	143	0.	*	1	1600	193	0.
1	0335	44	220.	*	1	0745	94	12.	*	1	1155	144	0.	*	1	1605	194	0.
1	0340	45	369.	*	1	0750	95	10.	*	1	1200	145	0.	*	1	1610	195	0.
1	0345	46	564.	*	1	0755	96	9.	*	1	1205	146	0.	*	1	1615	196	0.
1	0350	47	782.	*	1	0800	97	8.	*	1	1210	147	0.	*	1	1620	197	0.
1	0355	48	966.	*	1	0805	98	7.	*	1	1215	148	0.	*	1	1625	198	0.
1	0400	49	1095.	*	1	0810	99	6.	*	1	1220	149	0.	*	1	1630	199	0.
1	0405	50	1173.	*	1	0815	100	5.	*	1	1225	150	0.	*	1	1635	200	0.
			*			*		*			*							

**

+ (CFS)	PEAK FLOW (HR)	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	16.58-HR
+ 1209.	4.17	366.	134.	134.	134.
	(CFS)				
	(INCHES)	.104	.105	.105	.105
	(AC-FT)	181.	184.	184.	184.

CUMULATIVE AREA = 32.69 SQ MI

**

HYDROGRAPH AT STATION CRfan
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .44

**

665

	*				*				*				*						
DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
			*				*					*					*		
1	0000	1	0.	* 1	0410	51	64.	* 1	0820	101	1.	* 1	1230	151	0.				
1	0005	2	0.	* 1	0415	52	63.	* 1	0825	102	1.	* 1	1235	152	0.				
1	0010	3	0.	* 1	0420	53	61.	* 1	0830	103	0.	* 1	1240	153	0.				
1	0015	4	1.	* 1	0425	54	60.	* 1	0835	104	0.	* 1	1245	154	0.				
1	0020	5	2.	* 1	0430	55	58.	* 1	0840	105	0.	* 1	1250	155	0.				
1	0025	6	3.	* 1	0435	56	56.	* 1	0845	106	0.	* 1	1255	156	0.				
1	0030	7	4.	* 1	0440	57	56.	* 1	0850	107	0.	* 1	1300	157	0.				
1	0035	8	6.	* 1	0445	58	56.	* 1	0855	108	0.	* 1	1305	158	0.				
1	0040	9	8.	* 1	0450	59	57.	* 1	0900	109	0.	* 1	1310	159	0.				
1	0045	10	9.	* 1	0455	60	58.	* 1	0905	110	0.	* 1	1315	160	0.				
1	0050	11	10.	* 1	0500	61	58.	* 1	0910	111	0.	* 1	1320	161	0.				
1	0055	12	11.	* 1	0505	62	57.	* 1	0915	112	0.	* 1	1325	162	0.				
1	0100	13	12.	* 1	0510	63	56.	* 1	0920	113	0.	* 1	1330	163	0.				
1	0105	14	12.	* 1	0515	64	53.	* 1	0925	114	0.	* 1	1335	164	0.				
1	0110	15	13.	* 1	0520	65	50.	* 1	0930	115	0.	* 1	1340	165	0.				
1	0115	16	13.	* 1	0525	66	46.	* 1	0935	116	0.	* 1	1345	166	0.				
1	0120	17	13.	* 1	0530	67	42.	* 1	0940	117	0.	* 1	1350	167	0.				
1	0125	18	14.	* 1	0535	68	38.	* 1	0945	118	0.	* 1	1355	168	0.				
1	0130	19	14.	* 1	0540	69	35.	* 1	0950	119	0.	* 1	1400	169	0.				
1	0135	20	15.	* 1	0545	70	32.	* 1	0955	120	0.	* 1	1405	170	0.				
1	0140	21	16.	* 1	0550	71	29.	* 1	1000	121	0.	* 1	1410	171	0.				
1	0145	22	17.	* 1	0555	72	27.	* 1	1005	122	0.	* 1	1415	172	0.				
1	0150	23	17.	* 1	0600	73	25.	* 1	1010	123	0.	* 1	1420	173	0.				

1	0155	24	18.	*	1	0605	74	23.	*	1	1015	124	0.	*	1	1425	174	0.
1	0200	25	18.	*	1	0610	75	22.	*	1	1020	125	0.	*	1	1430	175	0.
1	0205	26	18.	*	1	0615	76	20.	*	1	1025	126	0.	*	1	1435	176	0.
1	0210	27	17.	*	1	0620	77	19.	*	1	1030	127	0.	*	1	1440	177	0.
1	0215	28	17.	*	1	0625	78	17.	*	1	1035	128	0.	*	1	1445	178	0.
1	0220	29	17.	*	1	0630	79	15.	*	1	1040	129	0.	*	1	1450	179	0.
1	0225	30	16.	*	1	0635	80	14.	*	1	1045	130	0.	*	1	1455	180	0.
1	0230	31	16.	*	1	0640	81	12.	*	1	1050	131	0.	*	1	1500	181	0.
1	0235	32	15.	*	1	0645	82	11.	*	1	1055	132	0.	*	1	1505	182	0.
1	0240	33	15.	*	1	0650	83	9.	*	1	1100	133	0.	*	1	1510	183	0.
1	0245	34	14.	*	1	0655	84	8.	*	1	1105	134	0.	*	1	1515	184	0.
1	0250	35	14.	*	1	0700	85	7.	*	1	1110	135	0.	*	1	1520	185	0.
1	0255	36	14.	*	1	0705	86	6.	*	1	1115	136	0.	*	1	1525	186	0.
1	0300	37	14.	*	1	0710	87	5.	*	1	1120	137	0.	*	1	1530	187	0.
1	0305	38	14.	*	1	0715	88	5.	*	1	1125	138	0.	*	1	1535	188	0.
1	0310	39	15.	*	1	0720	89	4.	*	1	1130	139	0.	*	1	1540	189	0.
1	0315	40	16.	*	1	0725	90	4.	*	1	1135	140	0.	*	1	1545	190	0.
1	0320	41	17.	*	1	0730	91	3.	*	1	1140	141	0.	*	1	1550	191	0.
1	0325	42	19.	*	1	0735	92	3.	*	1	1145	142	0.	*	1	1555	192	0.
1	0330	43	22.	*	1	0740	93	2.	*	1	1150	143	0.	*	1	1600	193	0.
1	0335	44	27.	*	1	0745	94	2.	*	1	1155	144	0.	*	1	1605	194	0.
1	0340	45	33.	*	1	0750	95	2.	*	1	1200	145	0.	*	1	1610	195	0.
1	0345	46	40.	*	1	0755	96	1.	*	1	1205	146	0.	*	1	1615	196	0.
1	0350	47	49.	*	1	0800	97	1.	*	1	1210	147	0.	*	1	1620	197	0.
1	0355	48	56.	*	1	0805	98	1.	*	1	1215	148	0.	*	1	1625	198	0.
1	0400	49	60.	*	1	0810	99	1.	*	1	1220	149	0.	*	1	1630	199	0.
1	0405	50	63.	*	1	0815	100	1.	*	1	1225	150	0.	*	1	1635	200	0.

*

*

*

**

PEAK FLOW + (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	16.58-HR
+ 64.	4.17	29.	11.	11.	11.

(CFS)

(INCHES) .008 .009 .009 .009
 (AC-FT) 15. 15. 15. 15.

CUMULATIVE AREA = 32.69 SQ MI

 **

HYDROGRAPH AT STATION CRfan
 SUM OF 3 HYDROGRAPHS
 PLAN 1, RATIO = .38

 **

667

	*				*				*				*						
DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1	0000	1	0.	* 1	0410	51	31.	* 1	0820	101	1.	* 1	1230	151	0.				
1	0005	2	0.	* 1	0415	52	32.	* 1	0825	102	0.	* 1	1235	152	0.				
1	0010	3	0.	* 1	0420	53	32.	* 1	0830	103	0.	* 1	1240	153	0.				
1	0015	4	1.	* 1	0425	54	32.	* 1	0835	104	0.	* 1	1245	154	0.				
1	0020	5	1.	* 1	0430	55	32.	* 1	0840	105	0.	* 1	1250	155	0.				
1	0025	6	2.	* 1	0435	56	32.	* 1	0845	106	0.	* 1	1255	156	0.				
1	0030	7	4.	* 1	0440	57	33.	* 1	0850	107	0.	* 1	1300	157	0.				
1	0035	8	5.	* 1	0445	58	34.	* 1	0855	108	0.	* 1	1305	158	0.				
1	0040	9	7.	* 1	0450	59	34.	* 1	0900	109	0.	* 1	1310	159	0.				
1	0045	10	8.	* 1	0455	60	35.	* 1	0905	110	0.	* 1	1315	160	0.				
1	0050	11	9.	* 1	0500	61	35.	* 1	0910	111	0.	* 1	1320	161	0.				
1	0055	12	10.	* 1	0505	62	35.	* 1	0915	112	0.	* 1	1325	162	0.				
1	0100	13	10.	* 1	0510	63	34.	* 1	0920	113	0.	* 1	1330	163	0.				
1	0105	14	11.	* 1	0515	64	33.	* 1	0925	114	0.	* 1	1335	164	0.				
1	0110	15	11.	* 1	0520	65	31.	* 1	0930	115	0.	* 1	1340	165	0.				
1	0115	16	11.	* 1	0525	66	30.	* 1	0935	116	0.	* 1	1345	166	0.				
1	0120	17	11.	* 1	0530	67	28.	* 1	0940	117	0.	* 1	1350	167	0.				

1	0125	18	12.	*	1	0535	68	26.	*	1	0945	118	0.	*	1	1355	168	0.
1	0130	19	12.	*	1	0540	69	24.	*	1	0950	119	0.	*	1	1400	169	0.
1	0135	20	13.	*	1	0545	70	22.	*	1	0955	120	0.	*	1	1405	170	0.
1	0140	21	14.	*	1	0550	71	21.	*	1	1000	121	0.	*	1	1410	171	0.
1	0145	22	14.	*	1	0555	72	20.	*	1	1005	122	0.	*	1	1415	172	0.
1	0150	23	15.	*	1	0600	73	19.	*	1	1010	123	0.	*	1	1420	173	0.
1	0155	24	15.	*	1	0605	74	18.	*	1	1015	124	0.	*	1	1425	174	0.
1	0200	25	15.	*	1	0610	75	17.	*	1	1020	125	0.	*	1	1430	175	0.
1	0205	26	15.	*	1	0615	76	16.	*	1	1025	126	0.	*	1	1435	176	0.
1	0210	27	15.	*	1	0620	77	15.	*	1	1030	127	0.	*	1	1440	177	0.
1	0215	28	15.	*	1	0625	78	14.	*	1	1035	128	0.	*	1	1445	178	0.
1	0220	29	14.	*	1	0630	79	12.	*	1	1040	129	0.	*	1	1450	179	0.
1	0225	30	14.	*	1	0635	80	11.	*	1	1045	130	0.	*	1	1455	180	0.
1	0230	31	13.	*	1	0640	81	10.	*	1	1050	131	0.	*	1	1500	181	0.
1	0235	32	13.	*	1	0645	82	9.	*	1	1055	132	0.	*	1	1505	182	0.
1	0240	33	13.	*	1	0650	83	8.	*	1	1100	133	0.	*	1	1510	183	0.
1	0245	34	12.	*	1	0655	84	7.	*	1	1105	134	0.	*	1	1515	184	0.
1	0250	35	12.	*	1	0700	85	6.	*	1	1110	135	0.	*	1	1520	185	0.
1	0255	36	12.	*	1	0705	86	5.	*	1	1115	136	0.	*	1	1525	186	0.
1	0300	37	12.	*	1	0710	87	5.	*	1	1120	137	0.	*	1	1530	187	0.
1	0305	38	12.	*	1	0715	88	4.	*	1	1125	138	0.	*	1	1535	188	0.
1	0310	39	13.	*	1	0720	89	3.	*	1	1130	139	0.	*	1	1540	189	0.
1	0315	40	14.	*	1	0725	90	3.	*	1	1135	140	0.	*	1	1545	190	0.
1	0320	41	15.	*	1	0730	91	3.	*	1	1140	141	0.	*	1	1550	191	0.
1	0325	42	16.	*	1	0735	92	2.	*	1	1145	142	0.	*	1	1555	192	0.
1	0330	43	18.	*	1	0740	93	2.	*	1	1150	143	0.	*	1	1600	193	0.
1	0335	44	20.	*	1	0745	94	2.	*	1	1155	144	0.	*	1	1605	194	0.
1	0340	45	23.	*	1	0750	95	1.	*	1	1200	145	0.	*	1	1610	195	0.
1	0345	46	25.	*	1	0755	96	1.	*	1	1205	146	0.	*	1	1615	196	0.
1	0350	47	27.	*	1	0800	97	1.	*	1	1210	147	0.	*	1	1620	197	0.
1	0355	48	29.	*	1	0805	98	1.	*	1	1215	148	0.	*	1	1625	198	0.
1	0400	49	30.	*	1	0810	99	1.	*	1	1220	149	0.	*	1	1630	199	0.
1	0405	50	31.	*	1	0815	100	1.	*	1	1225	150	0.	*	1	1635	200	0.

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PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	16.58-HR
+ (CFS)	(HR)				
	(CFS)				
+ 35.	5.00	20.	8.	8.	8.
	(INCHES)	.006	.006	.006	.006
	(AC-FT)	10.	10.	10.	10.

CUMULATIVE AREA = 32.69 SQ MI

**

HYDROGRAPH AT STATION CRfan
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .32

**

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	0000	1	0.	* 1 0410 51	26.	* 1 0820 101	0.	* 1 1230 151	0.										
1	0005	2	0.	* 1 0415 52	27.	* 1 0825 102	0.	* 1 1235 152	0.										
1	0010	3	0.	* 1 0420 53	27.	* 1 0830 103	0.	* 1 1240 153	0.										
1	0015	4	1.	* 1 0425 54	27.	* 1 0835 104	0.	* 1 1245 154	0.										
1	0020	5	1.	* 1 0430 55	27.	* 1 0840 105	0.	* 1 1250 155	0.										
1	0025	6	2.	* 1 0435 56	27.	* 1 0845 106	0.	* 1 1255 156	0.										
1	0030	7	3.	* 1 0440 57	28.	* 1 0850 107	0.	* 1 1300 157	0.										
1	0035	8	4.	* 1 0445 58	28.	* 1 0855 108	0.	* 1 1305 158	0.										
1	0040	9	6.	* 1 0450 59	29.	* 1 0900 109	0.	* 1 1310 159	0.										
1	0045	10	7.	* 1 0455 60	29.	* 1 0905 110	0.	* 1 1315 160	0.										
1	0050	11	8.	* 1 0500 61	29.	* 1 0910 111	0.	* 1 1320 161	0.										

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1	0055	12	8.	*	1	0505	62	29.	*	1	0915	112	0.	*	1	1325	162	0.
1	0100	13	9.	*	1	0510	63	29.	*	1	0920	113	0.	*	1	1330	163	0.
1	0105	14	9.	*	1	0515	64	28.	*	1	0925	114	0.	*	1	1335	164	0.
1	0110	15	9.	*	1	0520	65	26.	*	1	0930	115	0.	*	1	1340	165	0.
1	0115	16	9.	*	1	0525	66	25.	*	1	0935	116	0.	*	1	1345	166	0.
1	0120	17	10.	*	1	0530	67	23.	*	1	0940	117	0.	*	1	1350	167	0.
1	0125	18	10.	*	1	0535	68	22.	*	1	0945	118	0.	*	1	1355	168	0.
1	0130	19	10.	*	1	0540	69	20.	*	1	0950	119	0.	*	1	1400	169	0.
1	0135	20	11.	*	1	0545	70	19.	*	1	0955	120	0.	*	1	1405	170	0.
1	0140	21	12.	*	1	0550	71	18.	*	1	1000	121	0.	*	1	1410	171	0.
1	0145	22	12.	*	1	0555	72	17.	*	1	1005	122	0.	*	1	1415	172	0.
1	0150	23	12.	*	1	0600	73	16.	*	1	1010	123	0.	*	1	1420	173	0.
1	0155	24	13.	*	1	0605	74	15.	*	1	1015	124	0.	*	1	1425	174	0.
1	0200	25	13.	*	1	0610	75	14.	*	1	1020	125	0.	*	1	1430	175	0.
1	0205	26	13.	*	1	0615	76	13.	*	1	1025	126	0.	*	1	1435	176	0.
1	0210	27	13.	*	1	0620	77	13.	*	1	1030	127	0.	*	1	1440	177	0.
1	0215	28	12.	*	1	0625	78	12.	*	1	1035	128	0.	*	1	1445	178	0.
1	0220	29	12.	*	1	0630	79	11.	*	1	1040	129	0.	*	1	1450	179	0.
1	0225	30	12.	*	1	0635	80	9.	*	1	1045	130	0.	*	1	1455	180	0.
1	0230	31	11.	*	1	0640	81	8.	*	1	1050	131	0.	*	1	1500	181	0.
1	0235	32	11.	*	1	0645	82	7.	*	1	1055	132	0.	*	1	1505	182	0.
1	0240	33	11.	*	1	0650	83	7.	*	1	1100	133	0.	*	1	1510	183	0.
1	0245	34	10.	*	1	0655	84	6.	*	1	1105	134	0.	*	1	1515	184	0.
1	0250	35	10.	*	1	0700	85	5.	*	1	1110	135	0.	*	1	1520	185	0.
1	0255	36	10.	*	1	0705	86	4.	*	1	1115	136	0.	*	1	1525	186	0.
1	0300	37	10.	*	1	0710	87	4.	*	1	1120	137	0.	*	1	1530	187	0.
1	0305	38	10.	*	1	0715	88	3.	*	1	1125	138	0.	*	1	1535	188	0.
1	0310	39	11.	*	1	0720	89	3.	*	1	1130	139	0.	*	1	1540	189	0.
1	0315	40	12.	*	1	0725	90	3.	*	1	1135	140	0.	*	1	1545	190	0.
1	0320	41	13.	*	1	0730	91	2.	*	1	1140	141	0.	*	1	1550	191	0.
1	0325	42	14.	*	1	0735	92	2.	*	1	1145	142	0.	*	1	1555	192	0.
1	0330	43	15.	*	1	0740	93	2.	*	1	1150	143	0.	*	1	1600	193	0.
1	0335	44	17.	*	1	0745	94	1.	*	1	1155	144	0.	*	1	1605	194	0.
1	0340	45	19.	*	1	0750	95	1.	*	1	1200	145	0.	*	1	1610	195	0.
1	0345	46	21.	*	1	0755	96	1.	*	1	1205	146	0.	*	1	1615	196	0.
1	0350	47	23.	*	1	0800	97	1.	*	1	1210	147	0.	*	1	1620	197	0.
1	0355	48	24.	*	1	0805	98	1.	*	1	1215	148	0.	*	1	1625	198	0.

```

1 0400 49 25. * 1 0810 99 1. * 1 1220 149 0. * 1 1630 199 0.
1 0405 50 26. * 1 0815 100 1. * 1 1225 150 0. * 1 1635 200 0.
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PEAK FLOW TIME MAXIMUM AVERAGE FLOW
+ (CFS) (HR) 6-HR 24-HR 72-HR 16.58-HR
+ 29. 5.00 17. 6. 6. 6.
(INCHES) .005 .005 .005 .005
(AC-FT) 8. 9. 9. 9.

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CUMULATIVE AREA = 32.69 SQ MI

671

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HYDROGRAPH AT STATION CRfan
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .26

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* * *
DA MON HRMN ORD FLOW * DA MON HRMN ORD FLOW * DA MON HRMN ORD FLOW * DA MON HRMN ORD FLOW
* * *
1 0000 1 0. * 1 0410 51 21. * 1 0820 101 0. * 1 1230 151 0.
1 0005 2 0. * 1 0415 52 22. * 1 0825 102 0. * 1 1235 152 0.
1 0010 3 0. * 1 0420 53 22. * 1 0830 103 0. * 1 1240 153 0.
1 0015 4 0. * 1 0425 54 22. * 1 0835 104 0. * 1 1245 154 0.
1 0020 5 1. * 1 0430 55 22. * 1 0840 105 0. * 1 1250 155 0.

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1	0025	6	2.	*	1	0435	56	22.	*	1	0845	106	0.	*	1	1255	156	0.
1	0030	7	3.	*	1	0440	57	23.	*	1	0850	107	0.	*	1	1300	157	0.
1	0035	8	3.	*	1	0445	58	23.	*	1	0855	108	0.	*	1	1305	158	0.
1	0040	9	5.	*	1	0450	59	23.	*	1	0900	109	0.	*	1	1310	159	0.
1	0045	10	5.	*	1	0455	60	24.	*	1	0905	110	0.	*	1	1315	160	0.
1	0050	11	6.	*	1	0500	61	24.	*	1	0910	111	0.	*	1	1320	161	0.
1	0055	12	7.	*	1	0505	62	24.	*	1	0915	112	0.	*	1	1325	162	0.
1	0100	13	7.	*	1	0510	63	23.	*	1	0920	113	0.	*	1	1330	163	0.
1	0105	14	7.	*	1	0515	64	23.	*	1	0925	114	0.	*	1	1335	164	0.
1	0110	15	7.	*	1	0520	65	21.	*	1	0930	115	0.	*	1	1340	165	0.
1	0115	16	8.	*	1	0525	66	20.	*	1	0935	116	0.	*	1	1345	166	0.
1	0120	17	8.	*	1	0530	67	19.	*	1	0940	117	0.	*	1	1350	167	0.
1	0125	18	8.	*	1	0535	68	18.	*	1	0945	118	0.	*	1	1355	168	0.
1	0130	19	8.	*	1	0540	69	16.	*	1	0950	119	0.	*	1	1400	169	0.
1	0135	20	9.	*	1	0545	70	15.	*	1	0955	120	0.	*	1	1405	170	0.
1	0140	21	9.	*	1	0550	71	14.	*	1	1000	121	0.	*	1	1410	171	0.
1	0145	22	10.	*	1	0555	72	13.	*	1	1005	122	0.	*	1	1415	172	0.
1	0150	23	10.	*	1	0600	73	13.	*	1	1010	123	0.	*	1	1420	173	0.
1	0155	24	10.	*	1	0605	74	12.	*	1	1015	124	0.	*	1	1425	174	0.
1	0200	25	10.	*	1	0610	75	12.	*	1	1020	125	0.	*	1	1430	175	0.
1	0205	26	10.	*	1	0615	76	11.	*	1	1025	126	0.	*	1	1435	176	0.
1	0210	27	10.	*	1	0620	77	10.	*	1	1030	127	0.	*	1	1440	177	0.
1	0215	28	10.	*	1	0625	78	9.	*	1	1035	128	0.	*	1	1445	178	0.
1	0220	29	10.	*	1	0630	79	9.	*	1	1040	129	0.	*	1	1450	179	0.
1	0225	30	10.	*	1	0635	80	8.	*	1	1045	130	0.	*	1	1455	180	0.
1	0230	31	9.	*	1	0640	81	7.	*	1	1050	131	0.	*	1	1500	181	0.
1	0235	32	9.	*	1	0645	82	6.	*	1	1055	132	0.	*	1	1505	182	0.
1	0240	33	9.	*	1	0650	83	5.	*	1	1100	133	0.	*	1	1510	183	0.
1	0245	34	8.	*	1	0655	84	5.	*	1	1105	134	0.	*	1	1515	184	0.
1	0250	35	8.	*	1	0700	85	4.	*	1	1110	135	0.	*	1	1520	185	0.
1	0255	36	8.	*	1	0705	86	4.	*	1	1115	136	0.	*	1	1525	186	0.
1	0300	37	8.	*	1	0710	87	3.	*	1	1120	137	0.	*	1	1530	187	0.
1	0305	38	8.	*	1	0715	88	3.	*	1	1125	138	0.	*	1	1535	188	0.
1	0310	39	9.	*	1	0720	89	2.	*	1	1130	139	0.	*	1	1540	189	0.
1	0315	40	9.	*	1	0725	90	2.	*	1	1135	140	0.	*	1	1545	190	0.
1	0320	41	10.	*	1	0730	91	2.	*	1	1140	141	0.	*	1	1550	191	0.
1	0325	42	11.	*	1	0735	92	2.	*	1	1145	142	0.	*	1	1555	192	0.

```

1 0330 43 12. * 1 0740 93 1. * 1 1150 143 0. * 1 1600 193 0.
1 0335 44 14. * 1 0745 94 1. * 1 1155 144 0. * 1 1605 194 0.
1 0340 45 15. * 1 0750 95 1. * 1 1200 145 0. * 1 1610 195 0.
1 0345 46 17. * 1 0755 96 1. * 1 1205 146 0. * 1 1615 196 0.
1 0350 47 19. * 1 0800 97 1. * 1 1210 147 0. * 1 1620 197 0.
1 0355 48 20. * 1 0805 98 1. * 1 1215 148 0. * 1 1625 198 0.
1 0400 49 20. * 1 0810 99 0. * 1 1220 149 0. * 1 1630 199 0.
1 0405 50 21. * 1 0815 100 0. * 1 1225 150 0. * 1 1635 200 0.
          *                *                *

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673

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PEAK FLOW    TIME          MAXIMUM AVERAGE FLOW
              6-HR    24-HR    72-HR    16.58-HR
+ (CFS)    (HR)
              (CFS)
+ 24.    5.00    14.    5.    5.    5.
              (INCHES) .004    .004    .004    .004
              (AC-FT)  7.    7.    7.    7.

CUMULATIVE AREA = 32.69 SQ MI

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93 KK * CFplain *
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94 KO    OUTPUT CONTROL VARIABLES
IPRNT    2 PRINT CONTROL

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IPLOT 0 PLOT CONTROL
 QSCAL 0. HYDROGRAPH PLOT SCALE

95 HC HYDROGRAPH COMBINATION
 ICOMP 3 NUMBER OF HYDROGRAPHS TO COMBINE

 **

HYDROGRAPH AT STATION CFplain
 SUM OF 3 HYDROGRAPHS
 PLAN 1, RATIO = .62

 **

674

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	0000	1	0.	0410	1	0000	1	0.	0410	1	0000	1	0.	0410	1	0000	1	0.	0410
1	0005	2	0.	0415	1	0005	2	0.	0415	1	0005	2	0.	0415	1	0005	2	0.	0415
1	0010	3	0.	0420	1	0010	3	0.	0420	1	0010	3	0.	0420	1	0010	3	0.	0420
1	0015	4	0.	0425	1	0015	4	0.	0425	1	0015	4	0.	0425	1	0015	4	0.	0425
1	0020	5	0.	0430	1	0020	5	0.	0430	1	0020	5	0.	0430	1	0020	5	0.	0430
1	0025	6	1.	0435	1	0025	6	1.	0435	1	0025	6	1.	0435	1	0025	6	1.	0435
1	0030	7	1.	0440	1	0030	7	1.	0440	1	0030	7	1.	0440	1	0030	7	1.	0440
1	0035	8	2.	0445	1	0035	8	2.	0445	1	0035	8	2.	0445	1	0035	8	2.	0445
1	0040	9	4.	0450	1	0040	9	4.	0450	1	0040	9	4.	0450	1	0040	9	4.	0450
1	0045	10	5.	0455	1	0045	10	5.	0455	1	0045	10	5.	0455	1	0045	10	5.	0455
1	0050	11	7.	0500	1	0050	11	7.	0500	1	0050	11	7.	0500	1	0050	11	7.	0500
1	0055	12	9.	0505	1	0055	12	9.	0505	1	0055	12	9.	0505	1	0055	12	9.	0505
1	0100	13	11.	0510	1	0100	13	11.	0510	1	0100	13	11.	0510	1	0100	13	11.	0510
1	0105	14	13.	0515	1	0105	14	13.	0515	1	0105	14	13.	0515	1	0105	14	13.	0515
1	0110	15	15.	0520	1	0110	15	15.	0520	1	0110	15	15.	0520	1	0110	15	15.	0520

1	0115	16	16.	*	1	0525	66	1240.	*	1	0935	116	3.	*	1	1345	166	0.
1	0120	17	17.	*	1	0530	67	1205.	*	1	0940	117	3.	*	1	1350	167	0.
1	0125	18	18.	*	1	0535	68	1173.	*	1	0945	118	3.	*	1	1355	168	0.
1	0130	19	19.	*	1	0540	69	1142.	*	1	0950	119	2.	*	1	1400	169	0.
1	0135	20	20.	*	1	0545	70	1112.	*	1	0955	120	2.	*	1	1405	170	0.
1	0140	21	21.	*	1	0550	71	1079.	*	1	1000	121	2.	*	1	1410	171	0.
1	0145	22	22.	*	1	0555	72	1039.	*	1	1005	122	1.	*	1	1415	172	0.
1	0150	23	22.	*	1	0600	73	991.	*	1	1010	123	1.	*	1	1420	173	0.
1	0155	24	23.	*	1	0605	74	934.	*	1	1015	124	1.	*	1	1425	174	0.
1	0200	25	24.	*	1	0610	75	868.	*	1	1020	125	1.	*	1	1430	175	0.
1	0205	26	25.	*	1	0615	76	796.	*	1	1025	126	1.	*	1	1435	176	0.
1	0210	27	26.	*	1	0620	77	720.	*	1	1030	127	0.	*	1	1440	177	0.
1	0215	28	26.	*	1	0625	78	644.	*	1	1035	128	0.	*	1	1445	178	0.
1	0220	29	27.	*	1	0630	79	570.	*	1	1040	129	0.	*	1	1450	179	0.
1	0225	30	28.	*	1	0635	80	500.	*	1	1045	130	0.	*	1	1455	180	0.
1	0230	31	29.	*	1	0640	81	436.	*	1	1050	131	0.	*	1	1500	181	0.
1	0235	32	30.	*	1	0645	82	379.	*	1	1055	132	0.	*	1	1505	182	0.
1	0240	33	31.	*	1	0650	83	328.	*	1	1100	133	0.	*	1	1510	183	0.
1	0245	34	31.	*	1	0655	84	283.	*	1	1105	134	0.	*	1	1515	184	0.
1	0250	35	31.	*	1	0700	85	244.	*	1	1110	135	0.	*	1	1520	185	0.
1	0255	36	31.	*	1	0705	86	211.	*	1	1115	136	0.	*	1	1525	186	0.
1	0300	37	31.	*	1	0710	87	182.	*	1	1120	137	0.	*	1	1530	187	0.
1	0305	38	31.	*	1	0715	88	157.	*	1	1125	138	0.	*	1	1535	188	0.
1	0310	39	30.	*	1	0720	89	136.	*	1	1130	139	0.	*	1	1540	189	0.
1	0315	40	30.	*	1	0725	90	118.	*	1	1135	140	0.	*	1	1545	190	0.
1	0320	41	30.	*	1	0730	91	102.	*	1	1140	141	0.	*	1	1550	191	0.
1	0325	42	33.	*	1	0735	92	88.	*	1	1145	142	0.	*	1	1555	192	0.
1	0330	43	45.	*	1	0740	93	76.	*	1	1150	143	0.	*	1	1600	193	0.
1	0335	44	67.	*	1	0745	94	66.	*	1	1155	144	0.	*	1	1605	194	0.
1	0340	45	102.	*	1	0750	95	57.	*	1	1200	145	0.	*	1	1610	195	0.
1	0345	46	160.	*	1	0755	96	49.	*	1	1205	146	0.	*	1	1615	196	0.
1	0350	47	257.	*	1	0800	97	42.	*	1	1210	147	0.	*	1	1620	197	0.
1	0355	48	402.	*	1	0805	98	36.	*	1	1215	148	0.	*	1	1625	198	0.
1	0400	49	588.	*	1	0810	99	31.	*	1	1220	149	0.	*	1	1630	199	0.
1	0405	50	790.	*	1	0815	100	27.	*	1	1225	150	0.	*	1	1635	200	0.

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1	0040	9	3.	*	1	0450	59	64.	*	1	0900	109	1.	*	1	1310	159	0.
1	0045	10	4.	*	1	0455	60	66.	*	1	0905	110	1.	*	1	1315	160	0.
1	0050	11	5.	*	1	0500	61	68.	*	1	0910	111	1.	*	1	1320	161	0.
1	0055	12	7.	*	1	0505	62	70.	*	1	0915	112	1.	*	1	1325	162	0.
1	0100	13	8.	*	1	0510	63	71.	*	1	0920	113	1.	*	1	1330	163	0.
1	0105	14	9.	*	1	0515	64	71.	*	1	0925	114	1.	*	1	1335	164	0.
1	0110	15	10.	*	1	0520	65	71.	*	1	0930	115	0.	*	1	1340	165	0.
1	0115	16	11.	*	1	0525	66	70.	*	1	0935	116	0.	*	1	1345	166	0.
1	0120	17	12.	*	1	0530	67	69.	*	1	0940	117	0.	*	1	1350	167	0.
1	0125	18	13.	*	1	0535	68	68.	*	1	0945	118	0.	*	1	1355	168	0.
1	0130	19	13.	*	1	0540	69	68.	*	1	0950	119	0.	*	1	1400	169	0.
1	0135	20	14.	*	1	0545	70	66.	*	1	0955	120	0.	*	1	1405	170	0.
1	0140	21	15.	*	1	0550	71	65.	*	1	1000	121	0.	*	1	1410	171	0.
1	0145	22	15.	*	1	0555	72	63.	*	1	1005	122	0.	*	1	1415	172	0.
1	0150	23	16.	*	1	0600	73	61.	*	1	1010	123	0.	*	1	1420	173	0.
1	0155	24	16.	*	1	0605	74	59.	*	1	1015	124	0.	*	1	1425	174	0.
1	0200	25	17.	*	1	0610	75	56.	*	1	1020	125	0.	*	1	1430	175	0.
1	0205	26	18.	*	1	0615	76	53.	*	1	1025	126	0.	*	1	1435	176	0.
1	0210	27	18.	*	1	0620	77	50.	*	1	1030	127	0.	*	1	1440	177	0.
1	0215	28	19.	*	1	0625	78	46.	*	1	1035	128	0.	*	1	1445	178	0.
1	0220	29	19.	*	1	0630	79	43.	*	1	1040	129	0.	*	1	1450	179	0.
1	0225	30	20.	*	1	0635	80	39.	*	1	1045	130	0.	*	1	1455	180	0.
1	0230	31	21.	*	1	0640	81	36.	*	1	1050	131	0.	*	1	1500	181	0.
1	0235	32	21.	*	1	0645	82	33.	*	1	1055	132	0.	*	1	1505	182	0.
1	0240	33	22.	*	1	0650	83	30.	*	1	1100	133	0.	*	1	1510	183	0.
1	0245	34	22.	*	1	0655	84	28.	*	1	1105	134	0.	*	1	1515	184	0.
1	0250	35	22.	*	1	0700	85	26.	*	1	1110	135	0.	*	1	1520	185	0.
1	0255	36	22.	*	1	0705	86	24.	*	1	1115	136	0.	*	1	1525	186	0.
1	0300	37	22.	*	1	0710	87	22.	*	1	1120	137	0.	*	1	1530	187	0.
1	0305	38	22.	*	1	0715	88	20.	*	1	1125	138	0.	*	1	1535	188	0.
1	0310	39	22.	*	1	0720	89	18.	*	1	1130	139	0.	*	1	1540	189	0.
1	0315	40	21.	*	1	0725	90	16.	*	1	1135	140	0.	*	1	1545	190	0.
1	0320	41	21.	*	1	0730	91	15.	*	1	1140	141	0.	*	1	1550	191	0.
1	0325	42	22.	*	1	0735	92	13.	*	1	1145	142	0.	*	1	1555	192	0.
1	0330	43	22.	*	1	0740	93	12.	*	1	1150	143	0.	*	1	1600	193	0.
1	0335	44	23.	*	1	0745	94	10.	*	1	1155	144	0.	*	1	1605	194	0.
1	0340	45	24.	*	1	0750	95	9.	*	1	1200	145	0.	*	1	1610	195	0.

1	0345	46	26.	*	1	0755	96	8.	*	1	1205	146	0.	*	1	1615	196	0.
1	0350	47	28.	*	1	0800	97	7.	*	1	1210	147	0.	*	1	1620	197	0.
1	0355	48	31.	*	1	0805	98	6.	*	1	1215	148	0.	*	1	1625	198	0.
1	0400	49	33.	*	1	0810	99	5.	*	1	1220	149	0.	*	1	1630	199	0.
1	0405	50	36.	*	1	0815	100	5.	*	1	1225	150	0.	*	1	1635	200	0.

**

+ (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	16.58-HR
+ 71.	5.25	37.	15.	15.	15.
	(INCHES)	.007	.007	.007	.007
	(AC-FT)	19.	20.	20.	20.

CUMULATIVE AREA = 52.71 SQ MI

678

**

HYDROGRAPH AT STATION CFplain
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .38

**

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	0000	1	0.	*	1	0410	51	32.	*	1	0820	101	3.	*	1	1230	151	0.	
1	0005	2	0.	*	1	0415	52	34.	*	1	0825	102	3.	*	1	1235	152	0.	

1	0010	3	0.	*	1	0420	53	35.	*	1	0830	103	3.	*	1	1240	153	0.
1	0015	4	0.	*	1	0425	54	36.	*	1	0835	104	2.	*	1	1245	154	0.
1	0020	5	0.	*	1	0430	55	37.	*	1	0840	105	2.	*	1	1250	155	0.
1	0025	6	0.	*	1	0435	56	37.	*	1	0845	106	2.	*	1	1255	156	0.
1	0030	7	1.	*	1	0440	57	38.	*	1	0850	107	1.	*	1	1300	157	0.
1	0035	8	1.	*	1	0445	58	38.	*	1	0855	108	1.	*	1	1305	158	0.
1	0040	9	2.	*	1	0450	59	39.	*	1	0900	109	1.	*	1	1310	159	0.
1	0045	10	3.	*	1	0455	60	39.	*	1	0905	110	1.	*	1	1315	160	0.
1	0050	11	4.	*	1	0500	61	39.	*	1	0910	111	1.	*	1	1320	161	0.
1	0055	12	6.	*	1	0505	62	40.	*	1	0915	112	1.	*	1	1325	162	0.
1	0100	13	7.	*	1	0510	63	41.	*	1	0920	113	1.	*	1	1330	163	0.
1	0105	14	8.	*	1	0515	64	41.	*	1	0925	114	0.	*	1	1335	164	0.
1	0110	15	9.	*	1	0520	65	42.	*	1	0930	115	0.	*	1	1340	165	0.
1	0115	16	10.	*	1	0525	66	42.	*	1	0935	116	0.	*	1	1345	166	0.
1	0120	17	10.	*	1	0530	67	42.	*	1	0940	117	0.	*	1	1350	167	0.
1	0125	18	11.	*	1	0535	68	43.	*	1	0945	118	0.	*	1	1355	168	0.
1	0130	19	12.	*	1	0540	69	42.	*	1	0950	119	0.	*	1	1400	169	0.
1	0135	20	12.	*	1	0545	70	42.	*	1	0955	120	0.	*	1	1405	170	0.
1	0140	21	13.	*	1	0550	71	41.	*	1	1000	121	0.	*	1	1410	171	0.
1	0145	22	13.	*	1	0555	72	40.	*	1	1005	122	0.	*	1	1415	172	0.
1	0150	23	14.	*	1	0600	73	39.	*	1	1010	123	0.	*	1	1420	173	0.
1	0155	24	14.	*	1	0605	74	38.	*	1	1015	124	0.	*	1	1425	174	0.
1	0200	25	15.	*	1	0610	75	36.	*	1	1020	125	0.	*	1	1430	175	0.
1	0205	26	15.	*	1	0615	76	34.	*	1	1025	126	0.	*	1	1435	176	0.
1	0210	27	16.	*	1	0620	77	33.	*	1	1030	127	0.	*	1	1440	177	0.
1	0215	28	16.	*	1	0625	78	31.	*	1	1035	128	0.	*	1	1445	178	0.
1	0220	29	17.	*	1	0630	79	29.	*	1	1040	129	0.	*	1	1450	179	0.
1	0225	30	17.	*	1	0635	80	27.	*	1	1045	130	0.	*	1	1455	180	0.
1	0230	31	18.	*	1	0640	81	25.	*	1	1050	131	0.	*	1	1500	181	0.
1	0235	32	18.	*	1	0645	82	24.	*	1	1055	132	0.	*	1	1505	182	0.
1	0240	33	19.	*	1	0650	83	22.	*	1	1100	133	0.	*	1	1510	183	0.
1	0245	34	19.	*	1	0655	84	21.	*	1	1105	134	0.	*	1	1515	184	0.
1	0250	35	19.	*	1	0700	85	19.	*	1	1110	135	0.	*	1	1520	185	0.
1	0255	36	19.	*	1	0705	86	18.	*	1	1115	136	0.	*	1	1525	186	0.
1	0300	37	19.	*	1	0710	87	17.	*	1	1120	137	0.	*	1	1530	187	0.
1	0305	38	19.	*	1	0715	88	16.	*	1	1125	138	0.	*	1	1535	188	0.
1	0310	39	19.	*	1	0720	89	14.	*	1	1130	139	0.	*	1	1540	189	0.

1	0315	40	19.	*	1	0725	90	13.	*	1	1135	140	0.	*	1	1545	190	0.
1	0320	41	19.	*	1	0730	91	12.	*	1	1140	141	0.	*	1	1550	191	0.
1	0325	42	19.	*	1	0735	92	11.	*	1	1145	142	0.	*	1	1555	192	0.
1	0330	43	19.	*	1	0740	93	10.	*	1	1150	143	0.	*	1	1600	193	0.
1	0335	44	20.	*	1	0745	94	9.	*	1	1155	144	0.	*	1	1605	194	0.
1	0340	45	21.	*	1	0750	95	8.	*	1	1200	145	0.	*	1	1610	195	0.
1	0345	46	23.	*	1	0755	96	7.	*	1	1205	146	0.	*	1	1615	196	0.
1	0350	47	24.	*	1	0800	97	6.	*	1	1210	147	0.	*	1	1620	197	0.
1	0355	48	26.	*	1	0805	98	5.	*	1	1215	148	0.	*	1	1625	198	0.
1	0400	49	28.	*	1	0810	99	4.	*	1	1220	149	0.	*	1	1630	199	0.
1	0405	50	30.	*	1	0815	100	4.	*	1	1225	150	0.	*	1	1635	200	0.

**

PEAK FLOW (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	16.58-HR
43.	5.58	26.	10.	10.	10.
	(INCHES)	.005	.005	.005	.005
	(AC-FT)	13.	14.	14.	14.

CUMULATIVE AREA = 52.71 SQ MI

**

HYDROGRAPH AT STATION CFplain
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .32

**

		*		*		*		*		*		*		*		*		*	
DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	0000	1	0.	* 1	0410	51	27.	* 1	0820	101	3.	* 1	1230	151	0.				
1	0005	2	0.	* 1	0415	52	29.	* 1	0825	102	2.	* 1	1235	152	0.				
1	0010	3	0.	* 1	0420	53	30.	* 1	0830	103	2.	* 1	1240	153	0.				
1	0015	4	0.	* 1	0425	54	30.	* 1	0835	104	2.	* 1	1245	154	0.				
1	0020	5	0.	* 1	0430	55	31.	* 1	0840	105	2.	* 1	1250	155	0.				
1	0025	6	0.	* 1	0435	56	31.	* 1	0845	106	1.	* 1	1255	156	0.				
1	0030	7	1.	* 1	0440	57	32.	* 1	0850	107	1.	* 1	1300	157	0.				
1	0035	8	1.	* 1	0445	58	32.	* 1	0855	108	1.	* 1	1305	158	0.				
1	0040	9	2.	* 1	0450	59	33.	* 1	0900	109	1.	* 1	1310	159	0.				
1	0045	10	3.	* 1	0455	60	33.	* 1	0905	110	1.	* 1	1315	160	0.				
1	0050	11	4.	* 1	0500	61	33.	* 1	0910	111	1.	* 1	1320	161	0.				
1	0055	12	5.	* 1	0505	62	34.	* 1	0915	112	1.	* 1	1325	162	0.				
1	0100	13	6.	* 1	0510	63	34.	* 1	0920	113	0.	* 1	1330	163	0.				
1	0105	14	7.	* 1	0515	64	35.	* 1	0925	114	0.	* 1	1335	164	0.				
1	0110	15	8.	* 1	0520	65	35.	* 1	0930	115	0.	* 1	1340	165	0.				
1	0115	16	8.	* 1	0525	66	36.	* 1	0935	116	0.	* 1	1345	166	0.				
1	0120	17	9.	* 1	0530	67	36.	* 1	0940	117	0.	* 1	1350	167	0.				
1	0125	18	9.	* 1	0535	68	36.	* 1	0945	118	0.	* 1	1355	168	0.				
1	0130	19	10.	* 1	0540	69	36.	* 1	0950	119	0.	* 1	1400	169	0.				
1	0135	20	10.	* 1	0545	70	35.	* 1	0955	120	0.	* 1	1405	170	0.				
1	0140	21	11.	* 1	0550	71	35.	* 1	1000	121	0.	* 1	1410	171	0.				
1	0145	22	11.	* 1	0555	72	34.	* 1	1005	122	0.	* 1	1415	172	0.				
1	0150	23	12.	* 1	0600	73	33.	* 1	1010	123	0.	* 1	1420	173	0.				
1	0155	24	12.	* 1	0605	74	32.	* 1	1015	124	0.	* 1	1425	174	0.				
1	0200	25	12.	* 1	0610	75	30.	* 1	1020	125	0.	* 1	1430	175	0.				
1	0205	26	13.	* 1	0615	76	29.	* 1	1025	126	0.	* 1	1435	176	0.				
1	0210	27	13.	* 1	0620	77	27.	* 1	1030	127	0.	* 1	1440	177	0.				
1	0215	28	14.	* 1	0625	78	26.	* 1	1035	128	0.	* 1	1445	178	0.				
1	0220	29	14.	* 1	0630	79	24.	* 1	1040	129	0.	* 1	1450	179	0.				
1	0225	30	15.	* 1	0635	80	23.	* 1	1045	130	0.	* 1	1455	180	0.				
1	0230	31	15.	* 1	0640	81	21.	* 1	1050	131	0.	* 1	1500	181	0.				

1	0235	32	16.	*	1	0645	82	20.	*	1	1055	132	0.	*	1	1505	182	0.
1	0240	33	16.	*	1	0650	83	19.	*	1	1100	133	0.	*	1	1510	183	0.
1	0245	34	16.	*	1	0655	84	17.	*	1	1105	134	0.	*	1	1515	184	0.
1	0250	35	16.	*	1	0700	85	16.	*	1	1110	135	0.	*	1	1520	185	0.
1	0255	36	16.	*	1	0705	86	15.	*	1	1115	136	0.	*	1	1525	186	0.
1	0300	37	16.	*	1	0710	87	14.	*	1	1120	137	0.	*	1	1530	187	0.
1	0305	38	16.	*	1	0715	88	13.	*	1	1125	138	0.	*	1	1535	188	0.
1	0310	39	16.	*	1	0720	89	12.	*	1	1130	139	0.	*	1	1540	189	0.
1	0315	40	16.	*	1	0725	90	11.	*	1	1135	140	0.	*	1	1545	190	0.
1	0320	41	16.	*	1	0730	91	10.	*	1	1140	141	0.	*	1	1550	191	0.
1	0325	42	16.	*	1	0735	92	9.	*	1	1145	142	0.	*	1	1555	192	0.
1	0330	43	16.	*	1	0740	93	8.	*	1	1150	143	0.	*	1	1600	193	0.
1	0335	44	17.	*	1	0745	94	7.	*	1	1155	144	0.	*	1	1605	194	0.
1	0340	45	18.	*	1	0750	95	6.	*	1	1200	145	0.	*	1	1610	195	0.
1	0345	46	19.	*	1	0755	96	6.	*	1	1205	146	0.	*	1	1615	196	0.
1	0350	47	20.	*	1	0800	97	5.	*	1	1210	147	0.	*	1	1620	197	0.
1	0355	48	22.	*	1	0805	98	4.	*	1	1215	148	0.	*	1	1625	198	0.
1	0400	49	24.	*	1	0810	99	4.	*	1	1220	149	0.	*	1	1630	199	0.
1	0405	50	26.	*	1	0815	100	3.	*	1	1225	150	0.	*	1	1635	200	0.

**

PEAK FLOW + (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	16.58-HR
		(CFS)			
+ 36.	5.58	22.	9.	9.	9.
	(INCHES)	.004	.004	.004	.004
	(AC-FT)	11.	12.	12.	12.

CUMULATIVE AREA = 52.71 SQ MI

**

HYDROGRAPH AT STATION CFplain
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .26

**

683

*				*				*				*							
DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
*				*				*				*							
1	0000	1	0.	* 1	0410	51	22.	* 1	0820	101	2.	* 1	1230	151	0.				
1	0005	2	0.	* 1	0415	52	23.	* 1	0825	102	2.	* 1	1235	152	0.				
1	0010	3	0.	* 1	0420	53	24.	* 1	0830	103	2.	* 1	1240	153	0.				
1	0015	4	0.	* 1	0425	54	25.	* 1	0835	104	2.	* 1	1245	154	0.				
1	0020	5	0.	* 1	0430	55	25.	* 1	0840	105	1.	* 1	1250	155	0.				
1	0025	6	0.	* 1	0435	56	26.	* 1	0845	106	1.	* 1	1255	156	0.				
1	0030	7	1.	* 1	0440	57	26.	* 1	0850	107	1.	* 1	1300	157	0.				
1	0035	8	1.	* 1	0445	58	26.	* 1	0855	108	1.	* 1	1305	158	0.				
1	0040	9	2.	* 1	0450	59	26.	* 1	0900	109	1.	* 1	1310	159	0.				
1	0045	10	2.	* 1	0455	60	27.	* 1	0905	110	1.	* 1	1315	160	0.				
1	0050	11	3.	* 1	0500	61	27.	* 1	0910	111	0.	* 1	1320	161	0.				
1	0055	12	4.	* 1	0505	62	27.	* 1	0915	112	0.	* 1	1325	162	0.				
1	0100	13	5.	* 1	0510	63	28.	* 1	0920	113	0.	* 1	1330	163	0.				
1	0105	14	6.	* 1	0515	64	28.	* 1	0925	114	0.	* 1	1335	164	0.				
1	0110	15	6.	* 1	0520	65	29.	* 1	0930	115	0.	* 1	1340	165	0.				
1	0115	16	7.	* 1	0525	66	29.	* 1	0935	116	0.	* 1	1345	166	0.				
1	0120	17	7.	* 1	0530	67	29.	* 1	0940	117	0.	* 1	1350	167	0.				
1	0125	18	8.	* 1	0535	68	29.	* 1	0945	118	0.	* 1	1355	168	0.				
1	0130	19	8.	* 1	0540	69	29.	* 1	0950	119	0.	* 1	1400	169	0.				
1	0135	20	8.	* 1	0545	70	29.	* 1	0955	120	0.	* 1	1405	170	0.				
1	0140	21	9.	* 1	0550	71	28.	* 1	1000	121	0.	* 1	1410	171	0.				
1	0145	22	9.	* 1	0555	72	28.	* 1	1005	122	0.	* 1	1415	172	0.				
1	0150	23	9.	* 1	0600	73	27.	* 1	1010	123	0.	* 1	1420	173	0.				

1	0155	24	10.	*	1	0605	74	26.	*	1	1015	124	0.	*	1	1425	174	0.
1	0200	25	10.	*	1	0610	75	25.	*	1	1020	125	0.	*	1	1430	175	0.
1	0205	26	10.	*	1	0615	76	24.	*	1	1025	126	0.	*	1	1435	176	0.
1	0210	27	11.	*	1	0620	77	22.	*	1	1030	127	0.	*	1	1440	177	0.
1	0215	28	11.	*	1	0625	78	21.	*	1	1035	128	0.	*	1	1445	178	0.
1	0220	29	11.	*	1	0630	79	20.	*	1	1040	129	0.	*	1	1450	179	0.
1	0225	30	12.	*	1	0635	80	18.	*	1	1045	130	0.	*	1	1455	180	0.
1	0230	31	12.	*	1	0640	81	17.	*	1	1050	131	0.	*	1	1500	181	0.
1	0235	32	13.	*	1	0645	82	16.	*	1	1055	132	0.	*	1	1505	182	0.
1	0240	33	13.	*	1	0650	83	15.	*	1	1100	133	0.	*	1	1510	183	0.
1	0245	34	13.	*	1	0655	84	14.	*	1	1105	134	0.	*	1	1515	184	0.
1	0250	35	13.	*	1	0700	85	13.	*	1	1110	135	0.	*	1	1520	185	0.
1	0255	36	13.	*	1	0705	86	12.	*	1	1115	136	0.	*	1	1525	186	0.
1	0300	37	13.	*	1	0710	87	11.	*	1	1120	137	0.	*	1	1530	187	0.
1	0305	38	13.	*	1	0715	88	11.	*	1	1125	138	0.	*	1	1535	188	0.
1	0310	39	13.	*	1	0720	89	10.	*	1	1130	139	0.	*	1	1540	189	0.
1	0315	40	13.	*	1	0725	90	9.	*	1	1135	140	0.	*	1	1545	190	0.
1	0320	41	13.	*	1	0730	91	8.	*	1	1140	141	0.	*	1	1550	191	0.
1	0325	42	13.	*	1	0735	92	7.	*	1	1145	142	0.	*	1	1555	192	0.
1	0330	43	13.	*	1	0740	93	7.	*	1	1150	143	0.	*	1	1600	193	0.
1	0335	44	14.	*	1	0745	94	6.	*	1	1155	144	0.	*	1	1605	194	0.
1	0340	45	14.	*	1	0750	95	5.	*	1	1200	145	0.	*	1	1610	195	0.
1	0345	46	15.	*	1	0755	96	5.	*	1	1205	146	0.	*	1	1615	196	0.
1	0350	47	17.	*	1	0800	97	4.	*	1	1210	147	0.	*	1	1620	197	0.
1	0355	48	18.	*	1	0805	98	4.	*	1	1215	148	0.	*	1	1625	198	0.
1	0400	49	19.	*	1	0810	99	3.	*	1	1220	149	0.	*	1	1630	199	0.
1	0405	50	21.	*	1	0815	100	3.	*	1	1225	150	0.	*	1	1635	200	0.

**

PEAK FLOW + (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	16.58-HR
+ 29.	5.58	18.	7.	7.	7.

(INCHES) .003 .003 .003 .003
(AC-FT) 9. 10. 10. 10.

CUMULATIVE AREA = 52.71 SQ MI

* *
107 KK * HVal *
* *

114 KO OUTPUT CONTROL VARIABLES
IPRNT 2 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE

SUBBASIN RUNOFF DATA

109 BA SUBBASIN CHARACTERISTICS
TAREA 11.14 SUBBASIN AREA

PRECIPITATION DATA

110 PB STORM 3.02 BASIN TOTAL PRECIPITATION

38 PI INCREMENTAL PRECIPITATION PATTERN
.02 .04 .02 .03 .03 .01 .01 .01 .00 .01
.00 .01 .00 .01 .01 .01 .01 .01 .01 .01
.01 .01 .02 .01 .01 .00 .00 .00 .01 .00
.01 .01 .01 .02 .02 .03 .02 .05 .04 .05
.07 .08 .01 .01 .02 .03 .01 .00 .01 .01

685

.01 .01 .01 .02 .03 .02 .03 .03 .00 .00
 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00
 .00 .00

112 LG GREEN AND AMPT LOSS RATE
 STRTL .05 STARTING LOSS
 DTH .54 MOISTURE DEFICIT
 PSIF 7.90 WETTING FRONT SUCTION
 XKSAT .28 HYDRAULIC CONDUCTIVITY
 RTIMP .63 PERCENT IMPERVIOUS AREA

113 UD SCS DIMENSIONLESS UNITGRAPH
 TLAG .86 LAG

UNIT HYDROGRAPH
 54 END-OF-PERIOD ORDINATES

165. 533. 1012. 1633. 2443. 3423. 4387. 5151. 5663. 5922.
 5957. 5875. 5543. 5157. 4720. 4184. 3548. 2962. 2511. 2154.
 1847. 1598. 1397. 1203. 1037. 874. 763. 653. 567. 484.
 417. 356. 306. 264. 227. 197. 168. 146. 125. 108.
 91. 80. 69. 61. 54. 48. 41. 34. 28. 23.
 17. 12. 6. 1.

989

 **

HYDROGRAPH AT STATION HVal

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*
 DA MON HRMN ORD RAIN LOSS EXCESS COMP Q * DA MON HRMN ORD RAIN LOSS EXCESS COMP Q
 *

1	0000	1	.00	.00	.00	0.	*	1	0820	101	.00	.00	.00	4.
1	0005	2	.06	.06	.00	0.	*	1	0825	102	.00	.00	.00	3.
1	0010	3	.12	.12	.00	0.	*	1	0830	103	.00	.00	.00	3.
1	0015	4	.06	.06	.00	1.	*	1	0835	104	.00	.00	.00	2.
1	0020	5	.09	.09	.00	2.	*	1	0840	105	.00	.00	.00	2.
1	0025	6	.10	.10	.00	3.	*	1	0845	106	.00	.00	.00	2.
1	0030	7	.02	.02	.00	5.	*	1	0850	107	.00	.00	.00	1.
1	0035	8	.03	.03	.00	7.	*	1	0855	108	.00	.00	.00	1.
1	0040	9	.02	.02	.00	9.	*	1	0900	109	.00	.00	.00	1.
1	0045	10	.01	.01	.00	12.	*	1	0905	110	.00	.00	.00	0.
1	0050	11	.03	.03	.00	14.	*	1	0910	111	.00	.00	.00	0.
1	0055	12	.01	.01	.00	16.	*	1	0915	112	.00	.00	.00	0.
1	0100	13	.02	.02	.00	17.	*	1	0920	113	.00	.00	.00	0.
1	0105	14	.01	.01	.00	18.	*	1	0925	114	.00	.00	.00	0.
1	0110	15	.02	.02	.00	19.	*	1	0930	115	.00	.00	.00	0.
1	0115	16	.02	.02	.00	19.	*	1	0935	116	.00	.00	.00	0.
1	0120	17	.02	.02	.00	18.	*	1	0940	117	.00	.00	.00	0.
1	0125	18	.03	.03	.00	18.	*	1	0945	118	.00	.00	.00	0.
1	0130	19	.03	.03	.00	17.	*	1	0950	119	.00	.00	.00	0.
1	0135	20	.03	.03	.00	16.	*	1	0955	120	.00	.00	.00	0.
1	0140	21	.03	.03	.00	15.	*	1	1000	121	.00	.00	.00	0.
1	0145	22	.03	.03	.00	15.	*	1	1005	122	.00	.00	.00	0.
1	0150	23	.02	.02	.00	14.	*	1	1010	123	.00	.00	.00	0.
1	0155	24	.05	.05	.00	14.	*	1	1015	124	.00	.00	.00	0.
1	0200	25	.03	.03	.00	14.	*	1	1020	125	.00	.00	.00	0.
1	0205	26	.03	.03	.00	14.	*	1	1025	126	.00	.00	.00	0.
1	0210	27	.02	.02	.00	14.	*	1	1030	127	.00	.00	.00	0.
1	0215	28	.01	.01	.00	14.	*	1	1035	128	.00	.00	.00	0.
1	0220	29	.00	.00	.00	14.	*	1	1040	129	.00	.00	.00	0.
1	0225	30	.02	.02	.00	14.	*	1	1045	130	.00	.00	.00	0.
1	0230	31	.01	.01	.00	14.	*	1	1050	131	.00	.00	.00	0.
1	0235	32	.02	.02	.00	14.	*	1	1055	132	.00	.00	.00	0.
1	0240	33	.02	.02	.00	14.	*	1	1100	133	.00	.00	.00	0.
1	0245	34	.04	.04	.00	14.	*	1	1105	134	.00	.00	.00	0.
1	0250	35	.05	.05	.00	13.	*	1	1110	135	.00	.00	.00	0.
1	0255	36	.06	.06	.00	13.	*	1	1115	136	.00	.00	.00	0.
1	0300	37	.08	.08	.00	13.	*	1	1120	137	.00	.00	.00	0.

1	0305	38	.07	.07	.00	13.	*	1	1125	138	.00	.00	.00	0.
1	0310	39	.14	.10	.04	20.	*	1	1130	139	.00	.00	.00	0.
1	0315	40	.11	.09	.02	40.	*	1	1135	140	.00	.00	.00	0.
1	0320	41	.14	.09	.05	77.	*	1	1140	141	.00	.00	.00	0.
1	0325	42	.21	.09	.12	153.	*	1	1145	142	.00	.00	.00	0.
1	0330	43	.24	.08	.16	297.	*	1	1150	143	.00	.00	.00	0.
1	0335	44	.03	.03	.00	505.	*	1	1155	144	.00	.00	.00	0.
1	0340	45	.03	.03	.00	760.	*	1	1200	145	.00	.00	.00	0.
1	0345	46	.06	.06	.00	1061.	*	1	1205	146	.00	.00	.00	0.
1	0350	47	.08	.08	.01	1399.	*	1	1210	147	.00	.00	.00	0.
1	0355	48	.03	.03	.00	1736.	*	1	1215	148	.00	.00	.00	0.
1	0400	49	.02	.02	.00	2020.	*	1	1220	149	.00	.00	.00	0.
1	0405	50	.03	.03	.00	2219.	*	1	1225	150	.00	.00	.00	0.
1	0410	51	.02	.02	.00	2322.	*	1	1230	151	.00	.00	.00	0.
1	0415	52	.03	.03	.00	2346.	*	1	1235	152	.00	.00	.00	0.
1	0420	53	.02	.02	.00	2304.	*	1	1240	153	.00	.00	.00	0.
1	0425	54	.04	.04	.00	2202.	*	1	1245	154	.00	.00	.00	0.
1	0430	55	.06	.06	.00	2045.	*	1	1250	155	.00	.00	.00	0.
1	0435	56	.09	.07	.02	1869.	*	1	1255	156	.00	.00	.00	0.
1	0440	57	.06	.06	.00	1678.	*	1	1300	157	.00	.00	.00	0.
1	0445	58	.08	.07	.02	1474.	*	1	1305	158	.00	.00	.00	0.
1	0450	59	.08	.06	.02	1279.	*	1	1310	159	.00	.00	.00	0.
1	0455	60	.01	.01	.00	1128.	*	1	1315	160	.00	.00	.00	0.
1	0500	61	.01	.01	.00	1023.	*	1	1320	161	.00	.00	.00	0.
1	0505	62	.02	.02	.00	950.	*	1	1325	162	.00	.00	.00	0.
1	0510	63	.01	.01	.00	897.	*	1	1330	163	.00	.00	.00	0.
1	0515	64	.01	.01	.00	858.	*	1	1335	164	.00	.00	.00	0.
1	0520	65	.01	.01	.00	823.	*	1	1340	165	.00	.00	.00	0.
1	0525	66	.01	.01	.00	779.	*	1	1345	166	.00	.00	.00	0.
1	0530	67	.00	.00	.00	732.	*	1	1350	167	.00	.00	.00	0.
1	0535	68	.01	.01	.00	678.	*	1	1355	168	.00	.00	.00	0.
1	0540	69	.00	.00	.00	626.	*	1	1400	169	.00	.00	.00	0.
1	0545	70	.01	.01	.00	570.	*	1	1405	170	.00	.00	.00	0.
1	0550	71	.00	.00	.00	511.	*	1	1410	171	.00	.00	.00	0.
1	0555	72	.01	.01	.00	452.	*	1	1415	172	.00	.00	.00	0.
1	0600	73	.00	.00	.00	395.	*	1	1420	173	.00	.00	.00	0.
1	0605	74	.00	.00	.00	341.	*	1	1425	174	.00	.00	.00	0.

1	0610	75	.00	.00	.00	291.	*	1	1430	175	.00	.00	.00	0.
1	0615	76	.00	.00	.00	248.	*	1	1435	176	.00	.00	.00	0.
1	0620	77	.00	.00	.00	213.	*	1	1440	177	.00	.00	.00	0.
1	0625	78	.00	.00	.00	184.	*	1	1445	178	.00	.00	.00	0.
1	0630	79	.00	.00	.00	159.	*	1	1450	179	.00	.00	.00	0.
1	0635	80	.00	.00	.00	137.	*	1	1455	180	.00	.00	.00	0.
1	0640	81	.00	.00	.00	118.	*	1	1500	181	.00	.00	.00	0.
1	0645	82	.00	.00	.00	102.	*	1	1505	182	.00	.00	.00	0.
1	0650	83	.00	.00	.00	88.	*	1	1510	183	.00	.00	.00	0.
1	0655	84	.00	.00	.00	76.	*	1	1515	184	.00	.00	.00	0.
1	0700	85	.00	.00	.00	66.	*	1	1520	185	.00	.00	.00	0.
1	0705	86	.00	.00	.00	57.	*	1	1525	186	.00	.00	.00	0.
1	0710	87	.00	.00	.00	49.	*	1	1530	187	.00	.00	.00	0.
1	0715	88	.00	.00	.00	42.	*	1	1535	188	.00	.00	.00	0.
1	0720	89	.00	.00	.00	36.	*	1	1540	189	.00	.00	.00	0.
1	0725	90	.00	.00	.00	30.	*	1	1545	190	.00	.00	.00	0.
1	0730	91	.00	.00	.00	26.	*	1	1550	191	.00	.00	.00	0.
1	0735	92	.00	.00	.00	21.	*	1	1555	192	.00	.00	.00	0.
1	0740	93	.00	.00	.00	17.	*	1	1600	193	.00	.00	.00	0.
1	0745	94	.00	.00	.00	13.	*	1	1605	194	.00	.00	.00	0.
1	0750	95	.00	.00	.00	10.	*	1	1610	195	.00	.00	.00	0.
1	0755	96	.00	.00	.00	8.	*	1	1615	196	.00	.00	.00	0.
1	0800	97	.00	.00	.00	7.	*	1	1620	197	.00	.00	.00	0.
1	0805	98	.00	.00	.00	6.	*	1	1625	198	.00	.00	.00	0.
1	0810	99	.00	.00	.00	5.	*	1	1630	199	.00	.00	.00	0.
1	0815	100	.00	.00	.00	4.	*	1	1635	200	.00	.00	.00	0.

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TOTAL RAINFALL = 3.02, TOTAL LOSS = 2.54, TOTAL EXCESS = .48

PEAK FLOW + (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW			
		6-HR (CFS)	24-HR	72-HR	16.58-HR

+ 2346. 4.25 566. 206. 206. 206.
 (INCHES) .473 .476 .476 .476
 (AC-FT) 281. 283. 283. 283.

CUMULATIVE AREA = 11.14 SQ MI

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HYDROGRAPH AT STATION HVal
 PLAN 1, RATIO = .62

 **

069

	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q		DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q
						*				*									
						*				*									
1	0000	1	.00	.00	.00	0.	*	1	0820 101	.00	.00	.00	0.						
1	0005	2	.04	.04	.00	0.	*	1	0825 102	.00	.00	.00	0.						
1	0010	3	.07	.07	.00	0.	*	1	0830 103	.00	.00	.00	0.						
1	0015	4	.04	.04	.00	1.	*	1	0835 104	.00	.00	.00	0.						
1	0020	5	.06	.06	.00	1.	*	1	0840 105	.00	.00	.00	0.						
1	0025	6	.06	.06	.00	2.	*	1	0845 106	.00	.00	.00	0.						
1	0030	7	.01	.01	.00	3.	*	1	0850 107	.00	.00	.00	0.						
1	0035	8	.02	.02	.00	4.	*	1	0855 108	.00	.00	.00	0.						
1	0040	9	.01	.01	.00	6.	*	1	0900 109	.00	.00	.00	0.						
1	0045	10	.01	.01	.00	7.	*	1	0905 110	.00	.00	.00	0.						
1	0050	11	.02	.02	.00	9.	*	1	0910 111	.00	.00	.00	0.						
1	0055	12	.00	.00	.00	10.	*	1	0915 112	.00	.00	.00	0.						
1	0100	13	.01	.01	.00	11.	*	1	0920 113	.00	.00	.00	0.						
1	0105	14	.01	.01	.00	11.	*	1	0925 114	.00	.00	.00	0.						
1	0110	15	.01	.01	.00	12.	*	1	0930 115	.00	.00	.00	0.						
1	0115	16	.01	.01	.00	12.	*	1	0935 116	.00	.00	.00	0.						
1	0120	17	.01	.01	.00	11.	*	1	0940 117	.00	.00	.00	0.						

1	0125	18	.02	.02	.00	11.	*	1	0945	118	.00	.00	.00	0.
1	0130	19	.02	.02	.00	11.	*	1	0950	119	.00	.00	.00	0.
1	0135	20	.02	.02	.00	10.	*	1	0955	120	.00	.00	.00	0.
1	0140	21	.02	.02	.00	9.	*	1	1000	121	.00	.00	.00	0.
1	0145	22	.02	.02	.00	9.	*	1	1005	122	.00	.00	.00	0.
1	0150	23	.01	.01	.00	9.	*	1	1010	123	.00	.00	.00	0.
1	0155	24	.03	.03	.00	9.	*	1	1015	124	.00	.00	.00	0.
1	0200	25	.02	.02	.00	9.	*	1	1020	125	.00	.00	.00	0.
1	0205	26	.02	.02	.00	9.	*	1	1025	126	.00	.00	.00	0.
1	0210	27	.01	.01	.00	9.	*	1	1030	127	.00	.00	.00	0.
1	0215	28	.01	.01	.00	9.	*	1	1035	128	.00	.00	.00	0.
1	0220	29	.00	.00	.00	9.	*	1	1040	129	.00	.00	.00	0.
1	0225	30	.01	.01	.00	9.	*	1	1045	130	.00	.00	.00	0.
1	0230	31	.01	.01	.00	9.	*	1	1050	131	.00	.00	.00	0.
1	0235	32	.01	.01	.00	9.	*	1	1055	132	.00	.00	.00	0.
1	0240	33	.01	.01	.00	9.	*	1	1100	133	.00	.00	.00	0.
1	0245	34	.02	.02	.00	8.	*	1	1105	134	.00	.00	.00	0.
1	0250	35	.03	.03	.00	8.	*	1	1110	135	.00	.00	.00	0.
1	0255	36	.04	.04	.00	8.	*	1	1115	136	.00	.00	.00	0.
1	0300	37	.05	.05	.00	8.	*	1	1120	137	.00	.00	.00	0.
1	0305	38	.04	.04	.00	8.	*	1	1125	138	.00	.00	.00	0.
1	0310	39	.09	.09	.00	8.	*	1	1130	139	.00	.00	.00	0.
1	0315	40	.07	.07	.00	9.	*	1	1135	140	.00	.00	.00	0.
1	0320	41	.09	.09	.00	10.	*	1	1140	141	.00	.00	.00	0.
1	0325	42	.13	.12	.01	13.	*	1	1145	142	.00	.00	.00	0.
1	0330	43	.15	.11	.04	27.	*	1	1150	143	.00	.00	.00	0.
1	0335	44	.02	.02	.00	50.	*	1	1155	144	.00	.00	.00	0.
1	0340	45	.02	.02	.00	81.	*	1	1200	145	.00	.00	.00	0.
1	0345	46	.04	.04	.00	120.	*	1	1205	146	.00	.00	.00	0.
1	0350	47	.05	.05	.00	168.	*	1	1210	147	.00	.00	.00	0.
1	0355	48	.02	.02	.00	224.	*	1	1215	148	.00	.00	.00	0.
1	0400	49	.01	.01	.00	276.	*	1	1220	149	.00	.00	.00	0.
1	0405	50	.02	.02	.00	316.	*	1	1225	150	.00	.00	.00	0.
1	0410	51	.01	.01	.00	341.	*	1	1230	151	.00	.00	.00	0.
1	0415	52	.02	.02	.00	353.	*	1	1235	152	.00	.00	.00	0.
1	0420	53	.01	.01	.00	353.	*	1	1240	153	.00	.00	.00	0.
1	0425	54	.03	.03	.00	344.	*	1	1245	154	.00	.00	.00	0.

1	0430	55	.04	.04	.00	324.	*	1	1250	155	.00	.00	.00	0.
1	0435	56	.06	.06	.00	301.	*	1	1255	156	.00	.00	.00	0.
1	0440	57	.04	.04	.00	274.	*	1	1300	157	.00	.00	.00	0.
1	0445	58	.05	.05	.00	242.	*	1	1305	158	.00	.00	.00	0.
1	0450	59	.05	.05	.00	207.	*	1	1310	159	.00	.00	.00	0.
1	0455	60	.01	.01	.00	176.	*	1	1315	160	.00	.00	.00	0.
1	0500	61	.01	.01	.00	152.	*	1	1320	161	.00	.00	.00	0.
1	0505	62	.01	.01	.00	133.	*	1	1325	162	.00	.00	.00	0.
1	0510	63	.00	.00	.00	116.	*	1	1330	163	.00	.00	.00	0.
1	0515	64	.00	.00	.00	103.	*	1	1335	164	.00	.00	.00	0.
1	0520	65	.00	.00	.00	92.	*	1	1340	165	.00	.00	.00	0.
1	0525	66	.01	.01	.00	81.	*	1	1345	166	.00	.00	.00	0.
1	0530	67	.00	.00	.00	71.	*	1	1350	167	.00	.00	.00	0.
1	0535	68	.00	.00	.00	62.	*	1	1355	168	.00	.00	.00	0.
1	0540	69	.00	.00	.00	55.	*	1	1400	169	.00	.00	.00	0.
1	0545	70	.01	.01	.00	48.	*	1	1405	170	.00	.00	.00	0.
1	0550	71	.00	.00	.00	42.	*	1	1410	171	.00	.00	.00	0.
1	0555	72	.00	.00	.00	37.	*	1	1415	172	.00	.00	.00	0.
1	0600	73	.00	.00	.00	32.	*	1	1420	173	.00	.00	.00	0.
1	0605	74	.00	.00	.00	28.	*	1	1425	174	.00	.00	.00	0.
1	0610	75	.00	.00	.00	24.	*	1	1430	175	.00	.00	.00	0.
1	0615	76	.00	.00	.00	21.	*	1	1435	176	.00	.00	.00	0.
1	0620	77	.00	.00	.00	18.	*	1	1440	177	.00	.00	.00	0.
1	0625	78	.00	.00	.00	16.	*	1	1445	178	.00	.00	.00	0.
1	0630	79	.00	.00	.00	14.	*	1	1450	179	.00	.00	.00	0.
1	0635	80	.00	.00	.00	12.	*	1	1455	180	.00	.00	.00	0.
1	0640	81	.00	.00	.00	10.	*	1	1500	181	.00	.00	.00	0.
1	0645	82	.00	.00	.00	9.	*	1	1505	182	.00	.00	.00	0.
1	0650	83	.00	.00	.00	8.	*	1	1510	183	.00	.00	.00	0.
1	0655	84	.00	.00	.00	7.	*	1	1515	184	.00	.00	.00	0.
1	0700	85	.00	.00	.00	6.	*	1	1520	185	.00	.00	.00	0.
1	0705	86	.00	.00	.00	5.	*	1	1525	186	.00	.00	.00	0.
1	0710	87	.00	.00	.00	5.	*	1	1530	187	.00	.00	.00	0.
1	0715	88	.00	.00	.00	4.	*	1	1535	188	.00	.00	.00	0.
1	0720	89	.00	.00	.00	3.	*	1	1540	189	.00	.00	.00	0.
1	0725	90	.00	.00	.00	3.	*	1	1545	190	.00	.00	.00	0.
1	0730	91	.00	.00	.00	2.	*	1	1550	191	.00	.00	.00	0.

1	0735	92	.00	.00	.00	2.	*	1	1555	192	.00	.00	.00	0.
1	0740	93	.00	.00	.00	2.	*	1	1600	193	.00	.00	.00	0.
1	0745	94	.00	.00	.00	1.	*	1	1605	194	.00	.00	.00	0.
1	0750	95	.00	.00	.00	1.	*	1	1610	195	.00	.00	.00	0.
1	0755	96	.00	.00	.00	0.	*	1	1615	196	.00	.00	.00	0.
1	0800	97	.00	.00	.00	0.	*	1	1620	197	.00	.00	.00	0.
1	0805	98	.00	.00	.00	0.	*	1	1625	198	.00	.00	.00	0.
1	0810	99	.00	.00	.00	0.	*	1	1630	199	.00	.00	.00	0.
1	0815	100	.00	.00	.00	0.	*	1	1635	200	.00	.00	.00	0.

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**

TOTAL RAINFALL = 1.87, TOTAL LOSS = 1.81, TOTAL EXCESS = .07

693	+ (CFS)	PEAK FLOW	MAXIMUM AVERAGE FLOW			
		TIME (HR)	6-HR	24-HR	72-HR	16.58-HR
		(CFS)				
	+ 353.	4.25	79.	29.	29.	29.
		(INCHES)	.066	.066	.066	.066
		(AC-FT)	39.	39.	39.	39.

CUMULATIVE AREA = 11.14 SQ MI

**

HYDROGRAPH AT STATION HVal
PLAN 1, RATIO = .44

**

* * *																		
DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q
1	0000	1	.00	.00	.00	0.	*	1	0820	101	.00	.00	.00	0.				
1	0005	2	.03	.03	.00	0.	*	1	0825	102	.00	.00	.00	0.				
1	0010	3	.05	.05	.00	0.	*	1	0830	103	.00	.00	.00	0.				
1	0015	4	.03	.03	.00	0.	*	1	0835	104	.00	.00	.00	0.				
1	0020	5	.04	.04	.00	1.	*	1	0840	105	.00	.00	.00	0.				
1	0025	6	.05	.04	.00	1.	*	1	0845	106	.00	.00	.00	0.				
1	0030	7	.01	.01	.00	2.	*	1	0850	107	.00	.00	.00	0.				
1	0035	8	.01	.01	.00	3.	*	1	0855	108	.00	.00	.00	0.				
1	0040	9	.01	.01	.00	4.	*	1	0900	109	.00	.00	.00	0.				
1	0045	10	.00	.00	.00	5.	*	1	0905	110	.00	.00	.00	0.				
1	0050	11	.01	.01	.00	6.	*	1	0910	111	.00	.00	.00	0.				
1	0055	12	.00	.00	.00	7.	*	1	0915	112	.00	.00	.00	0.				
1	0100	13	.01	.01	.00	8.	*	1	0920	113	.00	.00	.00	0.				
1	0105	14	.00	.00	.00	8.	*	1	0925	114	.00	.00	.00	0.				
1	0110	15	.01	.01	.00	8.	*	1	0930	115	.00	.00	.00	0.				
1	0115	16	.01	.01	.00	8.	*	1	0935	116	.00	.00	.00	0.				
1	0120	17	.01	.01	.00	8.	*	1	0940	117	.00	.00	.00	0.				
1	0125	18	.01	.01	.00	8.	*	1	0945	118	.00	.00	.00	0.				
1	0130	19	.01	.01	.00	7.	*	1	0950	119	.00	.00	.00	0.				
1	0135	20	.01	.01	.00	7.	*	1	0955	120	.00	.00	.00	0.				
1	0140	21	.01	.01	.00	7.	*	1	1000	121	.00	.00	.00	0.				
1	0145	22	.01	.01	.00	6.	*	1	1005	122	.00	.00	.00	0.				
1	0150	23	.01	.01	.00	6.	*	1	1010	123	.00	.00	.00	0.				
1	0155	24	.02	.02	.00	6.	*	1	1015	124	.00	.00	.00	0.				
1	0200	25	.01	.01	.00	6.	*	1	1020	125	.00	.00	.00	0.				
1	0205	26	.01	.01	.00	6.	*	1	1025	126	.00	.00	.00	0.				
1	0210	27	.01	.01	.00	6.	*	1	1030	127	.00	.00	.00	0.				
1	0215	28	.01	.01	.00	6.	*	1	1035	128	.00	.00	.00	0.				
1	0220	29	.00	.00	.00	6.	*	1	1040	129	.00	.00	.00	0.				
1	0225	30	.01	.01	.00	6.	*	1	1045	130	.00	.00	.00	0.				
1	0230	31	.01	.01	.00	6.	*	1	1050	131	.00	.00	.00	0.				
1	0235	32	.01	.01	.00	6.	*	1	1055	132	.00	.00	.00	0.				
1	0240	33	.01	.01	.00	6.	*	1	1100	133	.00	.00	.00	0.				
1	0245	34	.02	.02	.00	6.	*	1	1105	134	.00	.00	.00	0.				

1	0250	35	.02	.02	.00	6.	*	1	1110	135	.00	.00	.00	0.
1	0255	36	.03	.03	.00	6.	*	1	1115	136	.00	.00	.00	0.
1	0300	37	.04	.04	.00	6.	*	1	1120	137	.00	.00	.00	0.
1	0305	38	.03	.03	.00	6.	*	1	1125	138	.00	.00	.00	0.
1	0310	39	.06	.06	.00	6.	*	1	1130	139	.00	.00	.00	0.
1	0315	40	.05	.05	.00	6.	*	1	1135	140	.00	.00	.00	0.
1	0320	41	.06	.06	.00	7.	*	1	1140	141	.00	.00	.00	0.
1	0325	42	.09	.09	.00	8.	*	1	1145	142	.00	.00	.00	0.
1	0330	43	.11	.11	.00	9.	*	1	1150	143	.00	.00	.00	0.
1	0335	44	.01	.01	.00	11.	*	1	1155	144	.00	.00	.00	0.
1	0340	45	.01	.01	.00	12.	*	1	1200	145	.00	.00	.00	0.
1	0345	46	.03	.03	.00	14.	*	1	1205	146	.00	.00	.00	0.
1	0350	47	.04	.04	.00	16.	*	1	1210	147	.00	.00	.00	0.
1	0355	48	.01	.01	.00	18.	*	1	1215	148	.00	.00	.00	0.
1	0400	49	.01	.01	.00	19.	*	1	1220	149	.00	.00	.00	0.
1	0405	50	.01	.01	.00	20.	*	1	1225	150	.00	.00	.00	0.
1	0410	51	.01	.01	.00	20.	*	1	1230	151	.00	.00	.00	0.
1	0415	52	.01	.01	.00	20.	*	1	1235	152	.00	.00	.00	0.
1	0420	53	.01	.01	.00	20.	*	1	1240	153	.00	.00	.00	0.
1	0425	54	.02	.02	.00	19.	*	1	1245	154	.00	.00	.00	0.
1	0430	55	.03	.03	.00	18.	*	1	1250	155	.00	.00	.00	0.
1	0435	56	.04	.04	.00	17.	*	1	1255	156	.00	.00	.00	0.
1	0440	57	.03	.03	.00	16.	*	1	1300	157	.00	.00	.00	0.
1	0445	58	.04	.04	.00	15.	*	1	1305	158	.00	.00	.00	0.
1	0450	59	.04	.04	.00	14.	*	1	1310	159	.00	.00	.00	0.
1	0455	60	.01	.01	.00	14.	*	1	1315	160	.00	.00	.00	0.
1	0500	61	.01	.01	.00	14.	*	1	1320	161	.00	.00	.00	0.
1	0505	62	.01	.01	.00	13.	*	1	1325	162	.00	.00	.00	0.
1	0510	63	.00	.00	.00	13.	*	1	1330	163	.00	.00	.00	0.
1	0515	64	.00	.00	.00	13.	*	1	1335	164	.00	.00	.00	0.
1	0520	65	.00	.00	.00	13.	*	1	1340	165	.00	.00	.00	0.
1	0525	66	.01	.01	.00	12.	*	1	1345	166	.00	.00	.00	0.
1	0530	67	.00	.00	.00	12.	*	1	1350	167	.00	.00	.00	0.
1	0535	68	.00	.00	.00	11.	*	1	1355	168	.00	.00	.00	0.
1	0540	69	.00	.00	.00	10.	*	1	1400	169	.00	.00	.00	0.
1	0545	70	.00	.00	.00	10.	*	1	1405	170	.00	.00	.00	0.
1	0550	71	.00	.00	.00	9.	*	1	1410	171	.00	.00	.00	0.

1	0555	72	.00	.00	.00	8.	*	1	1415	172	.00	.00	.00	0.
1	0600	73	.00	.00	.00	7.	*	1	1420	173	.00	.00	.00	0.
1	0605	74	.00	.00	.00	6.	*	1	1425	174	.00	.00	.00	0.
1	0610	75	.00	.00	.00	6.	*	1	1430	175	.00	.00	.00	0.
1	0615	76	.00	.00	.00	5.	*	1	1435	176	.00	.00	.00	0.
1	0620	77	.00	.00	.00	4.	*	1	1440	177	.00	.00	.00	0.
1	0625	78	.00	.00	.00	4.	*	1	1445	178	.00	.00	.00	0.
1	0630	79	.00	.00	.00	4.	*	1	1450	179	.00	.00	.00	0.
1	0635	80	.00	.00	.00	3.	*	1	1455	180	.00	.00	.00	0.
1	0640	81	.00	.00	.00	3.	*	1	1500	181	.00	.00	.00	0.
1	0645	82	.00	.00	.00	2.	*	1	1505	182	.00	.00	.00	0.
1	0650	83	.00	.00	.00	2.	*	1	1510	183	.00	.00	.00	0.
1	0655	84	.00	.00	.00	2.	*	1	1515	184	.00	.00	.00	0.
1	0700	85	.00	.00	.00	2.	*	1	1520	185	.00	.00	.00	0.
1	0705	86	.00	.00	.00	1.	*	1	1525	186	.00	.00	.00	0.
1	0710	87	.00	.00	.00	1.	*	1	1530	187	.00	.00	.00	0.
1	0715	88	.00	.00	.00	1.	*	1	1535	188	.00	.00	.00	0.
1	0720	89	.00	.00	.00	1.	*	1	1540	189	.00	.00	.00	0.
1	0725	90	.00	.00	.00	1.	*	1	1545	190	.00	.00	.00	0.
1	0730	91	.00	.00	.00	1.	*	1	1550	191	.00	.00	.00	0.
1	0735	92	.00	.00	.00	1.	*	1	1555	192	.00	.00	.00	0.
1	0740	93	.00	.00	.00	0.	*	1	1600	193	.00	.00	.00	0.
1	0745	94	.00	.00	.00	0.	*	1	1605	194	.00	.00	.00	0.
1	0750	95	.00	.00	.00	0.	*	1	1610	195	.00	.00	.00	0.
1	0755	96	.00	.00	.00	0.	*	1	1615	196	.00	.00	.00	0.
1	0800	97	.00	.00	.00	0.	*	1	1620	197	.00	.00	.00	0.
1	0805	98	.00	.00	.00	0.	*	1	1625	198	.00	.00	.00	0.
1	0810	99	.00	.00	.00	0.	*	1	1630	199	.00	.00	.00	0.
1	0815	100	.00	.00	.00	0.	*	1	1635	200	.00	.00	.00	0.

*

**

TOTAL RAINFALL = 1.33, TOTAL LOSS = 1.32, TOTAL EXCESS = .01

PEAK FLOW TIME

MAXIMUM AVERAGE FLOW

		6-HR	24-HR	72-HR	16.58-HR
+	(CFS)	(HR)			
		(CFS)			
+	20.	4.25	10.	4.	4.
		(INCHES)	.008	.008	.008
		(AC-FT)	5.	5.	5.

CUMULATIVE AREA = 11.14 SQ MI

**

HYDROGRAPH AT STATION HVal
PLAN 1, RATIO = .38

**

697

**																		
*																		
DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q
*																		
1	0000	1	.00	.00	.00	0.	*	1	0820	101	.00	.00	.00	0.				
1	0005	2	.02	.02	.00	0.	*	1	0825	102	.00	.00	.00	0.				
1	0010	3	.04	.04	.00	0.	*	1	0830	103	.00	.00	.00	0.				
1	0015	4	.02	.02	.00	0.	*	1	0835	104	.00	.00	.00	0.				
1	0020	5	.03	.03	.00	1.	*	1	0840	105	.00	.00	.00	0.				
1	0025	6	.04	.04	.00	1.	*	1	0845	106	.00	.00	.00	0.				
1	0030	7	.01	.01	.00	2.	*	1	0850	107	.00	.00	.00	0.				
1	0035	8	.01	.01	.00	3.	*	1	0855	108	.00	.00	.00	0.				
1	0040	9	.01	.01	.00	4.	*	1	0900	109	.00	.00	.00	0.				
1	0045	10	.00	.00	.00	4.	*	1	0905	110	.00	.00	.00	0.				
1	0050	11	.01	.01	.00	5.	*	1	0910	111	.00	.00	.00	0.				
1	0055	12	.00	.00	.00	6.	*	1	0915	112	.00	.00	.00	0.				
1	0100	13	.01	.01	.00	7.	*	1	0920	113	.00	.00	.00	0.				
1	0105	14	.00	.00	.00	7.	*	1	0925	114	.00	.00	.00	0.				

1	0110	15	.01	.01	.00	7.	*	1	0930	115	.00	.00	.00	0.
1	0115	16	.01	.01	.00	7.	*	1	0935	116	.00	.00	.00	0.
1	0120	17	.01	.01	.00	7.	*	1	0940	117	.00	.00	.00	0.
1	0125	18	.01	.01	.00	7.	*	1	0945	118	.00	.00	.00	0.
1	0130	19	.01	.01	.00	6.	*	1	0950	119	.00	.00	.00	0.
1	0135	20	.01	.01	.00	6.	*	1	0955	120	.00	.00	.00	0.
1	0140	21	.01	.01	.00	6.	*	1	1000	121	.00	.00	.00	0.
1	0145	22	.01	.01	.00	6.	*	1	1005	122	.00	.00	.00	0.
1	0150	23	.01	.01	.00	5.	*	1	1010	123	.00	.00	.00	0.
1	0155	24	.02	.02	.00	5.	*	1	1015	124	.00	.00	.00	0.
1	0200	25	.01	.01	.00	5.	*	1	1020	125	.00	.00	.00	0.
1	0205	26	.01	.01	.00	5.	*	1	1025	126	.00	.00	.00	0.
1	0210	27	.01	.01	.00	5.	*	1	1030	127	.00	.00	.00	0.
1	0215	28	.00	.00	.00	5.	*	1	1035	128	.00	.00	.00	0.
1	0220	29	.00	.00	.00	5.	*	1	1040	129	.00	.00	.00	0.
1	0225	30	.01	.01	.00	5.	*	1	1045	130	.00	.00	.00	0.
1	0230	31	.00	.00	.00	5.	*	1	1050	131	.00	.00	.00	0.
1	0235	32	.01	.01	.00	5.	*	1	1055	132	.00	.00	.00	0.
1	0240	33	.01	.01	.00	5.	*	1	1100	133	.00	.00	.00	0.
1	0245	34	.01	.01	.00	5.	*	1	1105	134	.00	.00	.00	0.
1	0250	35	.02	.02	.00	5.	*	1	1110	135	.00	.00	.00	0.
1	0255	36	.02	.02	.00	5.	*	1	1115	136	.00	.00	.00	0.
1	0300	37	.03	.03	.00	5.	*	1	1120	137	.00	.00	.00	0.
1	0305	38	.03	.03	.00	5.	*	1	1125	138	.00	.00	.00	0.
1	0310	39	.05	.05	.00	5.	*	1	1130	139	.00	.00	.00	0.
1	0315	40	.04	.04	.00	5.	*	1	1135	140	.00	.00	.00	0.
1	0320	41	.05	.05	.00	6.	*	1	1140	141	.00	.00	.00	0.
1	0325	42	.08	.08	.00	7.	*	1	1145	142	.00	.00	.00	0.
1	0330	43	.09	.09	.00	8.	*	1	1150	143	.00	.00	.00	0.
1	0335	44	.01	.01	.00	9.	*	1	1155	144	.00	.00	.00	0.
1	0340	45	.01	.01	.00	11.	*	1	1200	145	.00	.00	.00	0.
1	0345	46	.02	.02	.00	12.	*	1	1205	146	.00	.00	.00	0.
1	0350	47	.03	.03	.00	14.	*	1	1210	147	.00	.00	.00	0.
1	0355	48	.01	.01	.00	15.	*	1	1215	148	.00	.00	.00	0.
1	0400	49	.01	.01	.00	16.	*	1	1220	149	.00	.00	.00	0.
1	0405	50	.01	.01	.00	17.	*	1	1225	150	.00	.00	.00	0.
1	0410	51	.01	.01	.00	17.	*	1	1230	151	.00	.00	.00	0.

1	0415	52	.01	.01	.00	18.	*	1	1235	152	.00	.00	.00	0.
1	0420	53	.01	.01	.00	17.	*	1	1240	153	.00	.00	.00	0.
1	0425	54	.02	.02	.00	17.	*	1	1245	154	.00	.00	.00	0.
1	0430	55	.02	.02	.00	16.	*	1	1250	155	.00	.00	.00	0.
1	0435	56	.03	.03	.00	15.	*	1	1255	156	.00	.00	.00	0.
1	0440	57	.02	.02	.00	14.	*	1	1300	157	.00	.00	.00	0.
1	0445	58	.03	.03	.00	13.	*	1	1305	158	.00	.00	.00	0.
1	0450	59	.03	.03	.00	12.	*	1	1310	159	.00	.00	.00	0.
1	0455	60	.00	.00	.00	12.	*	1	1315	160	.00	.00	.00	0.
1	0500	61	.00	.00	.00	12.	*	1	1320	161	.00	.00	.00	0.
1	0505	62	.01	.01	.00	11.	*	1	1325	162	.00	.00	.00	0.
1	0510	63	.00	.00	.00	11.	*	1	1330	163	.00	.00	.00	0.
1	0515	64	.00	.00	.00	11.	*	1	1335	164	.00	.00	.00	0.
1	0520	65	.00	.00	.00	11.	*	1	1340	165	.00	.00	.00	0.
1	0525	66	.00	.00	.00	11.	*	1	1345	166	.00	.00	.00	0.
1	0530	67	.00	.00	.00	10.	*	1	1350	167	.00	.00	.00	0.
1	0535	68	.00	.00	.00	10.	*	1	1355	168	.00	.00	.00	0.
1	0540	69	.00	.00	.00	9.	*	1	1400	169	.00	.00	.00	0.
1	0545	70	.00	.00	.00	8.	*	1	1405	170	.00	.00	.00	0.
1	0550	71	.00	.00	.00	8.	*	1	1410	171	.00	.00	.00	0.
1	0555	72	.00	.00	.00	7.	*	1	1415	172	.00	.00	.00	0.
1	0600	73	.00	.00	.00	6.	*	1	1420	173	.00	.00	.00	0.
1	0605	74	.00	.00	.00	6.	*	1	1425	174	.00	.00	.00	0.
1	0610	75	.00	.00	.00	5.	*	1	1430	175	.00	.00	.00	0.
1	0615	76	.00	.00	.00	4.	*	1	1435	176	.00	.00	.00	0.
1	0620	77	.00	.00	.00	4.	*	1	1440	177	.00	.00	.00	0.
1	0625	78	.00	.00	.00	3.	*	1	1445	178	.00	.00	.00	0.
1	0630	79	.00	.00	.00	3.	*	1	1450	179	.00	.00	.00	0.
1	0635	80	.00	.00	.00	3.	*	1	1455	180	.00	.00	.00	0.
1	0640	81	.00	.00	.00	2.	*	1	1500	181	.00	.00	.00	0.
1	0645	82	.00	.00	.00	2.	*	1	1505	182	.00	.00	.00	0.
1	0650	83	.00	.00	.00	2.	*	1	1510	183	.00	.00	.00	0.
1	0655	84	.00	.00	.00	2.	*	1	1515	184	.00	.00	.00	0.
1	0700	85	.00	.00	.00	1.	*	1	1520	185	.00	.00	.00	0.
1	0705	86	.00	.00	.00	1.	*	1	1525	186	.00	.00	.00	0.
1	0710	87	.00	.00	.00	1.	*	1	1530	187	.00	.00	.00	0.
1	0715	88	.00	.00	.00	1.	*	1	1535	188	.00	.00	.00	0.

1	0720	89	.00	.00	.00	1.	*	1	1540	189	.00	.00	.00	0.
1	0725	90	.00	.00	.00	1.	*	1	1545	190	.00	.00	.00	0.
1	0730	91	.00	.00	.00	1.	*	1	1550	191	.00	.00	.00	0.
1	0735	92	.00	.00	.00	0.	*	1	1555	192	.00	.00	.00	0.
1	0740	93	.00	.00	.00	0.	*	1	1600	193	.00	.00	.00	0.
1	0745	94	.00	.00	.00	0.	*	1	1605	194	.00	.00	.00	0.
1	0750	95	.00	.00	.00	0.	*	1	1610	195	.00	.00	.00	0.
1	0755	96	.00	.00	.00	0.	*	1	1615	196	.00	.00	.00	0.
1	0800	97	.00	.00	.00	0.	*	1	1620	197	.00	.00	.00	0.
1	0805	98	.00	.00	.00	0.	*	1	1625	198	.00	.00	.00	0.
1	0810	99	.00	.00	.00	0.	*	1	1630	199	.00	.00	.00	0.
1	0815	100	.00	.00	.00	0.	*	1	1635	200	.00	.00	.00	0.

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**

TOTAL RAINFALL = 1.15, TOTAL LOSS = 1.14, TOTAL EXCESS = .01

700

+ (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	16.58-HR
+ 18.	4.25	8.	3.	3.	3.
	(INCHES)	.007	.007	.007	.007
	(AC-FT)	4.	4.	4.	4.

CUMULATIVE AREA = 11.14 SQ MI

**

HYDROGRAPH AT STATION HVal
PLAN 1, RATIO = .32

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DA MON HRMN ORD RAIN LOSS EXCESS COMP Q * DA MON HRMN ORD RAIN LOSS EXCESS COMP Q

*

1	0000	1	.00	.00	.00	0.	*	1	0820	101	.00	.00	.00	0.
1	0005	2	.02	.02	.00	0.	*	1	0825	102	.00	.00	.00	0.
1	0010	3	.04	.04	.00	0.	*	1	0830	103	.00	.00	.00	0.
1	0015	4	.02	.02	.00	0.	*	1	0835	104	.00	.00	.00	0.
1	0020	5	.03	.03	.00	1.	*	1	0840	105	.00	.00	.00	0.
1	0025	6	.03	.03	.00	1.	*	1	0845	106	.00	.00	.00	0.
1	0030	7	.01	.01	.00	2.	*	1	0850	107	.00	.00	.00	0.
1	0035	8	.01	.01	.00	2.	*	1	0855	108	.00	.00	.00	0.
1	0040	9	.01	.01	.00	3.	*	1	0900	109	.00	.00	.00	0.
1	0045	10	.00	.00	.00	4.	*	1	0905	110	.00	.00	.00	0.
1	0050	11	.01	.01	.00	4.	*	1	0910	111	.00	.00	.00	0.
1	0055	12	.00	.00	.00	5.	*	1	0915	112	.00	.00	.00	0.
1	0100	13	.00	.00	.00	6.	*	1	0920	113	.00	.00	.00	0.
1	0105	14	.00	.00	.00	6.	*	1	0925	114	.00	.00	.00	0.
1	0110	15	.01	.01	.00	6.	*	1	0930	115	.00	.00	.00	0.
1	0115	16	.00	.00	.00	6.	*	1	0935	116	.00	.00	.00	0.
1	0120	17	.01	.01	.00	6.	*	1	0940	117	.00	.00	.00	0.
1	0125	18	.01	.01	.00	6.	*	1	0945	118	.00	.00	.00	0.
1	0130	19	.01	.01	.00	5.	*	1	0950	119	.00	.00	.00	0.
1	0135	20	.01	.01	.00	5.	*	1	0955	120	.00	.00	.00	0.
1	0140	21	.01	.01	.00	5.	*	1	1000	121	.00	.00	.00	0.
1	0145	22	.01	.01	.00	5.	*	1	1005	122	.00	.00	.00	0.
1	0150	23	.01	.01	.00	5.	*	1	1010	123	.00	.00	.00	0.
1	0155	24	.01	.01	.00	4.	*	1	1015	124	.00	.00	.00	0.
1	0200	25	.01	.01	.00	4.	*	1	1020	125	.00	.00	.00	0.
1	0205	26	.01	.01	.00	4.	*	1	1025	126	.00	.00	.00	0.
1	0210	27	.00	.00	.00	4.	*	1	1030	127	.00	.00	.00	0.
1	0215	28	.00	.00	.00	5.	*	1	1035	128	.00	.00	.00	0.
1	0220	29	.00	.00	.00	5.	*	1	1040	129	.00	.00	.00	0.
1	0225	30	.01	.01	.00	5.	*	1	1045	130	.00	.00	.00	0.
1	0230	31	.00	.00	.00	5.	*	1	1050	131	.00	.00	.00	0.

701

1	0235	32	.01	.01	.00	5.	*	1	1055	132	.00	.00	.00	0.
1	0240	33	.01	.01	.00	4.	*	1	1100	133	.00	.00	.00	0.
1	0245	34	.01	.01	.00	4.	*	1	1105	134	.00	.00	.00	0.
1	0250	35	.01	.01	.00	4.	*	1	1110	135	.00	.00	.00	0.
1	0255	36	.02	.02	.00	4.	*	1	1115	136	.00	.00	.00	0.
1	0300	37	.03	.03	.00	4.	*	1	1120	137	.00	.00	.00	0.
1	0305	38	.02	.02	.00	4.	*	1	1125	138	.00	.00	.00	0.
1	0310	39	.05	.05	.00	4.	*	1	1130	139	.00	.00	.00	0.
1	0315	40	.04	.04	.00	5.	*	1	1135	140	.00	.00	.00	0.
1	0320	41	.05	.05	.00	5.	*	1	1140	141	.00	.00	.00	0.
1	0325	42	.07	.07	.00	6.	*	1	1145	142	.00	.00	.00	0.
1	0330	43	.08	.08	.00	7.	*	1	1150	143	.00	.00	.00	0.
1	0335	44	.01	.01	.00	8.	*	1	1155	144	.00	.00	.00	0.
1	0340	45	.01	.01	.00	9.	*	1	1200	145	.00	.00	.00	0.
1	0345	46	.02	.02	.00	10.	*	1	1205	146	.00	.00	.00	0.
1	0350	47	.03	.03	.00	12.	*	1	1210	147	.00	.00	.00	0.
1	0355	48	.01	.01	.00	13.	*	1	1215	148	.00	.00	.00	0.
1	0400	49	.00	.00	.00	14.	*	1	1220	149	.00	.00	.00	0.
1	0405	50	.01	.01	.00	14.	*	1	1225	150	.00	.00	.00	0.
1	0410	51	.01	.01	.00	15.	*	1	1230	151	.00	.00	.00	0.
1	0415	52	.01	.01	.00	15.	*	1	1235	152	.00	.00	.00	0.
1	0420	53	.01	.01	.00	14.	*	1	1240	153	.00	.00	.00	0.
1	0425	54	.01	.01	.00	14.	*	1	1245	154	.00	.00	.00	0.
1	0430	55	.02	.02	.00	13.	*	1	1250	155	.00	.00	.00	0.
1	0435	56	.03	.03	.00	13.	*	1	1255	156	.00	.00	.00	0.
1	0440	57	.02	.02	.00	12.	*	1	1300	157	.00	.00	.00	0.
1	0445	58	.03	.03	.00	11.	*	1	1305	158	.00	.00	.00	0.
1	0450	59	.03	.03	.00	11.	*	1	1310	159	.00	.00	.00	0.
1	0455	60	.00	.00	.00	10.	*	1	1315	160	.00	.00	.00	0.
1	0500	61	.00	.00	.00	10.	*	1	1320	161	.00	.00	.00	0.
1	0505	62	.00	.00	.00	10.	*	1	1325	162	.00	.00	.00	0.
1	0510	63	.00	.00	.00	10.	*	1	1330	163	.00	.00	.00	0.
1	0515	64	.00	.00	.00	9.	*	1	1335	164	.00	.00	.00	0.
1	0520	65	.00	.00	.00	9.	*	1	1340	165	.00	.00	.00	0.
1	0525	66	.00	.00	.00	9.	*	1	1345	166	.00	.00	.00	0.
1	0530	67	.00	.00	.00	9.	*	1	1350	167	.00	.00	.00	0.
1	0535	68	.00	.00	.00	8.	*	1	1355	168	.00	.00	.00	0.

1	0540	69	.00	.00	.00	8.	*	1	1400	169	.00	.00	.00	0.
1	0545	70	.00	.00	.00	7.	*	1	1405	170	.00	.00	.00	0.
1	0550	71	.00	.00	.00	6.	*	1	1410	171	.00	.00	.00	0.
1	0555	72	.00	.00	.00	6.	*	1	1415	172	.00	.00	.00	0.
1	0600	73	.00	.00	.00	5.	*	1	1420	173	.00	.00	.00	0.
1	0605	74	.00	.00	.00	5.	*	1	1425	174	.00	.00	.00	0.
1	0610	75	.00	.00	.00	4.	*	1	1430	175	.00	.00	.00	0.
1	0615	76	.00	.00	.00	4.	*	1	1435	176	.00	.00	.00	0.
1	0620	77	.00	.00	.00	3.	*	1	1440	177	.00	.00	.00	0.
1	0625	78	.00	.00	.00	3.	*	1	1445	178	.00	.00	.00	0.
1	0630	79	.00	.00	.00	3.	*	1	1450	179	.00	.00	.00	0.
1	0635	80	.00	.00	.00	2.	*	1	1455	180	.00	.00	.00	0.
1	0640	81	.00	.00	.00	2.	*	1	1500	181	.00	.00	.00	0.
1	0645	82	.00	.00	.00	2.	*	1	1505	182	.00	.00	.00	0.
1	0650	83	.00	.00	.00	2.	*	1	1510	183	.00	.00	.00	0.
1	0655	84	.00	.00	.00	1.	*	1	1515	184	.00	.00	.00	0.
1	0700	85	.00	.00	.00	1.	*	1	1520	185	.00	.00	.00	0.
1	0705	86	.00	.00	.00	1.	*	1	1525	186	.00	.00	.00	0.
1	0710	87	.00	.00	.00	1.	*	1	1530	187	.00	.00	.00	0.
1	0715	88	.00	.00	.00	1.	*	1	1535	188	.00	.00	.00	0.
1	0720	89	.00	.00	.00	1.	*	1	1540	189	.00	.00	.00	0.
1	0725	90	.00	.00	.00	1.	*	1	1545	190	.00	.00	.00	0.
1	0730	91	.00	.00	.00	0.	*	1	1550	191	.00	.00	.00	0.
1	0735	92	.00	.00	.00	0.	*	1	1555	192	.00	.00	.00	0.
1	0740	93	.00	.00	.00	0.	*	1	1600	193	.00	.00	.00	0.
1	0745	94	.00	.00	.00	0.	*	1	1605	194	.00	.00	.00	0.
1	0750	95	.00	.00	.00	0.	*	1	1610	195	.00	.00	.00	0.
1	0755	96	.00	.00	.00	0.	*	1	1615	196	.00	.00	.00	0.
1	0800	97	.00	.00	.00	0.	*	1	1620	197	.00	.00	.00	0.
1	0805	98	.00	.00	.00	0.	*	1	1625	198	.00	.00	.00	0.
1	0810	99	.00	.00	.00	0.	*	1	1630	199	.00	.00	.00	0.
1	0815	100	.00	.00	.00	0.	*	1	1635	200	.00	.00	.00	0.

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**

TOTAL RAINFALL = .97, TOTAL LOSS = .96, TOTAL EXCESS = .01

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	16.58-HR
+ (CFS)	(HR)				
	(CFS)				
+ 15.	4.25	7.	3.	3.	3.
	(INCHES)	.006	.006	.006	.006
	(AC-FT)	3.	4.	4.	4.

CUMULATIVE AREA = 11.14 SQ MI

**

HYDROGRAPH AT STATION HVal
PLAN 1, RATIO = .26

**

* * *																				
DA	MON	HR	MN	ORD	RAIN	LOSS	EXCESS	COMP	Q	*	DA	MON	HR	MN	ORD	RAIN	LOSS	EXCESS	COMP	Q
1	0000	1		.00	.00	.00	0.	*	1	0820	101	.00	.00	.00	0.					
1	0005	2		.02	.02	.00	0.	*	1	0825	102	.00	.00	.00	0.					
1	0010	3		.03	.03	.00	0.	*	1	0830	103	.00	.00	.00	0.					
1	0015	4		.02	.02	.00	0.	*	1	0835	104	.00	.00	.00	0.					
1	0020	5		.02	.02	.00	0.	*	1	0840	105	.00	.00	.00	0.					
1	0025	6		.03	.03	.00	1.	*	1	0845	106	.00	.00	.00	0.					
1	0030	7		.00	.00	.00	1.	*	1	0850	107	.00	.00	.00	0.					
1	0035	8		.01	.01	.00	2.	*	1	0855	108	.00	.00	.00	0.					
1	0040	9		.01	.01	.00	2.	*	1	0900	109	.00	.00	.00	0.					
1	0045	10		.00	.00	.00	3.	*	1	0905	110	.00	.00	.00	0.					
1	0050	11		.01	.01	.00	4.	*	1	0910	111	.00	.00	.00	0.					

704

1	0055	12	.00	.00	.00	4.	*	1	0915	112	.00	.00	.00	0.
1	0100	13	.00	.00	.00	5.	*	1	0920	113	.00	.00	.00	0.
1	0105	14	.00	.00	.00	5.	*	1	0925	114	.00	.00	.00	0.
1	0110	15	.01	.01	.00	5.	*	1	0930	115	.00	.00	.00	0.
1	0115	16	.00	.00	.00	5.	*	1	0935	116	.00	.00	.00	0.
1	0120	17	.01	.01	.00	5.	*	1	0940	117	.00	.00	.00	0.
1	0125	18	.01	.01	.00	5.	*	1	0945	118	.00	.00	.00	0.
1	0130	19	.01	.01	.00	4.	*	1	0950	119	.00	.00	.00	0.
1	0135	20	.01	.01	.00	4.	*	1	0955	120	.00	.00	.00	0.
1	0140	21	.01	.01	.00	4.	*	1	1000	121	.00	.00	.00	0.
1	0145	22	.01	.01	.00	4.	*	1	1005	122	.00	.00	.00	0.
1	0150	23	.00	.00	.00	4.	*	1	1010	123	.00	.00	.00	0.
1	0155	24	.01	.01	.00	4.	*	1	1015	124	.00	.00	.00	0.
1	0200	25	.01	.01	.00	4.	*	1	1020	125	.00	.00	.00	0.
1	0205	26	.01	.01	.00	4.	*	1	1025	126	.00	.00	.00	0.
1	0210	27	.00	.00	.00	4.	*	1	1030	127	.00	.00	.00	0.
1	0215	28	.00	.00	.00	4.	*	1	1035	128	.00	.00	.00	0.
1	0220	29	.00	.00	.00	4.	*	1	1040	129	.00	.00	.00	0.
1	0225	30	.01	.01	.00	4.	*	1	1045	130	.00	.00	.00	0.
1	0230	31	.00	.00	.00	4.	*	1	1050	131	.00	.00	.00	0.
1	0235	32	.00	.00	.00	4.	*	1	1055	132	.00	.00	.00	0.
1	0240	33	.00	.00	.00	4.	*	1	1100	133	.00	.00	.00	0.
1	0245	34	.01	.01	.00	4.	*	1	1105	134	.00	.00	.00	0.
1	0250	35	.01	.01	.00	3.	*	1	1110	135	.00	.00	.00	0.
1	0255	36	.02	.02	.00	3.	*	1	1115	136	.00	.00	.00	0.
1	0300	37	.02	.02	.00	3.	*	1	1120	137	.00	.00	.00	0.
1	0305	38	.02	.02	.00	3.	*	1	1125	138	.00	.00	.00	0.
1	0310	39	.04	.04	.00	3.	*	1	1130	139	.00	.00	.00	0.
1	0315	40	.03	.03	.00	4.	*	1	1135	140	.00	.00	.00	0.
1	0320	41	.04	.04	.00	4.	*	1	1140	141	.00	.00	.00	0.
1	0325	42	.05	.05	.00	5.	*	1	1145	142	.00	.00	.00	0.
1	0330	43	.06	.06	.00	5.	*	1	1150	143	.00	.00	.00	0.
1	0335	44	.01	.01	.00	6.	*	1	1155	144	.00	.00	.00	0.
1	0340	45	.01	.01	.00	7.	*	1	1200	145	.00	.00	.00	0.
1	0345	46	.02	.02	.00	8.	*	1	1205	146	.00	.00	.00	0.
1	0350	47	.02	.02	.00	9.	*	1	1210	147	.00	.00	.00	0.
1	0355	48	.01	.01	.00	10.	*	1	1215	148	.00	.00	.00	0.

1	0400	49	.00	.00	.00	11.	*	1	1220	149	.00	.00	.00	0.
1	0405	50	.01	.01	.00	12.	*	1	1225	150	.00	.00	.00	0.
1	0410	51	.00	.00	.00	12.	*	1	1230	151	.00	.00	.00	0.
1	0415	52	.01	.01	.00	12.	*	1	1235	152	.00	.00	.00	0.
1	0420	53	.00	.00	.00	12.	*	1	1240	153	.00	.00	.00	0.
1	0425	54	.01	.01	.00	11.	*	1	1245	154	.00	.00	.00	0.
1	0430	55	.01	.01	.00	11.	*	1	1250	155	.00	.00	.00	0.
1	0435	56	.02	.02	.00	10.	*	1	1255	156	.00	.00	.00	0.
1	0440	57	.02	.02	.00	10.	*	1	1300	157	.00	.00	.00	0.
1	0445	58	.02	.02	.00	9.	*	1	1305	158	.00	.00	.00	0.
1	0450	59	.02	.02	.00	9.	*	1	1310	159	.00	.00	.00	0.
1	0455	60	.00	.00	.00	8.	*	1	1315	160	.00	.00	.00	0.
1	0500	61	.00	.00	.00	8.	*	1	1320	161	.00	.00	.00	0.
1	0505	62	.00	.00	.00	8.	*	1	1325	162	.00	.00	.00	0.
1	0510	63	.00	.00	.00	8.	*	1	1330	163	.00	.00	.00	0.
1	0515	64	.00	.00	.00	8.	*	1	1335	164	.00	.00	.00	0.
1	0520	65	.00	.00	.00	8.	*	1	1340	165	.00	.00	.00	0.
1	0525	66	.00	.00	.00	7.	*	1	1345	166	.00	.00	.00	0.
1	0530	67	.00	.00	.00	7.	*	1	1350	167	.00	.00	.00	0.
1	0535	68	.00	.00	.00	7.	*	1	1355	168	.00	.00	.00	0.
1	0540	69	.00	.00	.00	6.	*	1	1400	169	.00	.00	.00	0.
1	0545	70	.00	.00	.00	6.	*	1	1405	170	.00	.00	.00	0.
1	0550	71	.00	.00	.00	5.	*	1	1410	171	.00	.00	.00	0.
1	0555	72	.00	.00	.00	5.	*	1	1415	172	.00	.00	.00	0.
1	0600	73	.00	.00	.00	4.	*	1	1420	173	.00	.00	.00	0.
1	0605	74	.00	.00	.00	4.	*	1	1425	174	.00	.00	.00	0.
1	0610	75	.00	.00	.00	3.	*	1	1430	175	.00	.00	.00	0.
1	0615	76	.00	.00	.00	3.	*	1	1435	176	.00	.00	.00	0.
1	0620	77	.00	.00	.00	3.	*	1	1440	177	.00	.00	.00	0.
1	0625	78	.00	.00	.00	2.	*	1	1445	178	.00	.00	.00	0.
1	0630	79	.00	.00	.00	2.	*	1	1450	179	.00	.00	.00	0.
1	0635	80	.00	.00	.00	2.	*	1	1455	180	.00	.00	.00	0.
1	0640	81	.00	.00	.00	2.	*	1	1500	181	.00	.00	.00	0.
1	0645	82	.00	.00	.00	1.	*	1	1505	182	.00	.00	.00	0.
1	0650	83	.00	.00	.00	1.	*	1	1510	183	.00	.00	.00	0.
1	0655	84	.00	.00	.00	1.	*	1	1515	184	.00	.00	.00	0.
1	0700	85	.00	.00	.00	1.	*	1	1520	185	.00	.00	.00	0.

1	0705	86	.00	.00	.00	1.	*	1	1525	186	.00	.00	.00	0.
1	0710	87	.00	.00	.00	1.	*	1	1530	187	.00	.00	.00	0.
1	0715	88	.00	.00	.00	1.	*	1	1535	188	.00	.00	.00	0.
1	0720	89	.00	.00	.00	1.	*	1	1540	189	.00	.00	.00	0.
1	0725	90	.00	.00	.00	0.	*	1	1545	190	.00	.00	.00	0.
1	0730	91	.00	.00	.00	0.	*	1	1550	191	.00	.00	.00	0.
1	0735	92	.00	.00	.00	0.	*	1	1555	192	.00	.00	.00	0.
1	0740	93	.00	.00	.00	0.	*	1	1600	193	.00	.00	.00	0.
1	0745	94	.00	.00	.00	0.	*	1	1605	194	.00	.00	.00	0.
1	0750	95	.00	.00	.00	0.	*	1	1610	195	.00	.00	.00	0.
1	0755	96	.00	.00	.00	0.	*	1	1615	196	.00	.00	.00	0.
1	0800	97	.00	.00	.00	0.	*	1	1620	197	.00	.00	.00	0.
1	0805	98	.00	.00	.00	0.	*	1	1625	198	.00	.00	.00	0.
1	0810	99	.00	.00	.00	0.	*	1	1630	199	.00	.00	.00	0.
1	0815	100	.00	.00	.00	0.	*	1	1635	200	.00	.00	.00	0.

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707

TOTAL RAINFALL = .79, TOTAL LOSS = .78, TOTAL EXCESS = .00

+ (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	16.58-HR
+ 12.	4.25	6.	2.	2.	2.
	(INCHES)	.005	.005	.005	.005
	(AC-FT)	3.	3.	3.	3.

CUMULATIVE AREA = 11.14 SQ MI

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*****
*      *
126 KK *   COut *
*      *
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127 KO      OUTPUT CONTROL VARIABLES
IPRNT      2 PRINT CONTROL
IPLOT      0 PLOT CONTROL
QSCAL      0. HYDROGRAPH PLOT SCALE

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128 HC      HYDROGRAPH COMBINATION
ICOMP      4 NUMBER OF HYDROGRAPHS TO COMBINE

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708

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HYDROGRAPH AT STATION COut
SUM OF 4 HYDROGRAPHS
PLAN 1, RATIO = .62

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*				*				*				*							
DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
*				*				*				*							
1	0000	1	0.	* 1	0410	51	1209.	* 1	0820	101	55.	* 1	1230	151	0.				
1	0005	2	0.	* 1	0415	52	1321.	* 1	0825	102	48.	* 1	1235	152	0.				
1	0010	3	0.	* 1	0420	53	1443.	* 1	0830	103	41.	* 1	1240	153	0.				
1	0015	4	0.	* 1	0425	54	1570.	* 1	0835	104	35.	* 1	1245	154	0.				
1	0020	5	1.	* 1	0430	55	1691.	* 1	0840	105	30.	* 1	1250	155	0.				
1	0025	6	2.	* 1	0435	56	1806.	* 1	0845	106	26.	* 1	1255	156	0.				

1	0030	7	3.	*	1	0440	57	1909.	*	1	0850	107	23.	*	1	1300	157	0.
1	0035	8	4.	*	1	0445	58	1981.	*	1	0855	108	20.	*	1	1305	158	0.
1	0040	9	5.	*	1	0450	59	2015.	*	1	0900	109	17.	*	1	1310	159	0.
1	0045	10	6.	*	1	0455	60	2013.	*	1	0905	110	15.	*	1	1315	160	0.
1	0050	11	8.	*	1	0500	61	1992.	*	1	0910	111	13.	*	1	1320	161	0.
1	0055	12	9.	*	1	0505	62	1964.	*	1	0915	112	11.	*	1	1325	162	0.
1	0100	13	11.	*	1	0510	63	1932.	*	1	0920	113	10.	*	1	1330	163	0.
1	0105	14	13.	*	1	0515	64	1892.	*	1	0925	114	9.	*	1	1335	164	0.
1	0110	15	15.	*	1	0520	65	1847.	*	1	0930	115	8.	*	1	1340	165	0.
1	0115	16	18.	*	1	0525	66	1797.	*	1	0935	116	7.	*	1	1345	166	0.
1	0120	17	21.	*	1	0530	67	1739.	*	1	0940	117	6.	*	1	1350	167	0.
1	0125	18	23.	*	1	0535	68	1676.	*	1	0945	118	5.	*	1	1355	168	0.
1	0130	19	26.	*	1	0540	69	1609.	*	1	0950	119	5.	*	1	1400	169	0.
1	0135	20	28.	*	1	0545	70	1543.	*	1	0955	120	4.	*	1	1405	170	0.
1	0140	21	30.	*	1	0550	71	1478.	*	1	1000	121	4.	*	1	1410	171	0.
1	0145	22	32.	*	1	0555	72	1417.	*	1	1005	122	3.	*	1	1415	172	0.
1	0150	23	34.	*	1	0600	73	1359.	*	1	1010	123	3.	*	1	1420	173	0.
1	0155	24	35.	*	1	0605	74	1305.	*	1	1015	124	2.	*	1	1425	174	0.
1	0200	25	36.	*	1	0610	75	1252.	*	1	1020	125	2.	*	1	1430	175	0.
1	0205	26	37.	*	1	0615	76	1198.	*	1	1025	126	2.	*	1	1435	176	0.
1	0210	27	38.	*	1	0620	77	1142.	*	1	1030	127	2.	*	1	1440	177	0.
1	0215	28	38.	*	1	0625	78	1081.	*	1	1035	128	1.	*	1	1445	178	0.
1	0220	29	39.	*	1	0630	79	1014.	*	1	1040	129	1.	*	1	1450	179	0.
1	0225	30	39.	*	1	0635	80	943.	*	1	1045	130	1.	*	1	1455	180	0.
1	0230	31	40.	*	1	0640	81	867.	*	1	1050	131	1.	*	1	1500	181	0.
1	0235	32	40.	*	1	0645	82	789.	*	1	1055	132	0.	*	1	1505	182	0.
1	0240	33	41.	*	1	0650	83	710.	*	1	1100	133	0.	*	1	1510	183	0.
1	0245	34	41.	*	1	0655	84	634.	*	1	1105	134	0.	*	1	1515	184	0.
1	0250	35	42.	*	1	0700	85	561.	*	1	1110	135	0.	*	1	1520	185	0.
1	0255	36	43.	*	1	0705	86	493.	*	1	1115	136	0.	*	1	1525	186	0.
1	0300	37	43.	*	1	0710	87	431.	*	1	1120	137	0.	*	1	1530	187	0.
1	0305	38	44.	*	1	0715	88	376.	*	1	1125	138	0.	*	1	1535	188	0.
1	0310	39	45.	*	1	0720	89	326.	*	1	1130	139	0.	*	1	1540	189	0.
1	0315	40	46.	*	1	0725	90	283.	*	1	1135	140	0.	*	1	1545	190	0.
1	0320	41	47.	*	1	0730	91	244.	*	1	1140	141	0.	*	1	1550	191	0.
1	0325	42	59.	*	1	0735	92	211.	*	1	1145	142	0.	*	1	1555	192	0.
1	0330	43	108.	*	1	0740	93	183.	*	1	1150	143	0.	*	1	1600	193	0.

1	0335	44	191.	*	1	0745	94	158.	*	1	1155	144	0.	*	1	1605	194	0.
1	0340	45	302.	*	1	0750	95	136.	*	1	1200	145	0.	*	1	1610	195	0.
1	0345	46	448.	*	1	0755	96	118.	*	1	1205	146	0.	*	1	1615	196	0.
1	0350	47	622.	*	1	0800	97	101.	*	1	1210	147	0.	*	1	1620	197	0.
1	0355	48	796.	*	1	0805	98	87.	*	1	1215	148	0.	*	1	1625	198	0.
1	0400	49	955.	*	1	0810	99	75.	*	1	1220	149	0.	*	1	1630	199	0.
1	0405	50	1090.	*	1	0815	100	64.	*	1	1225	150	0.	*	1	1635	200	0.

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PEAK FLOW + (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	16.58-HR
+ 2015.	4.83	821.	301.	301.	301.
	(INCHES)	.093	.094	.094	.094
	(AC-FT)	407.	413.	413.	413.

CUMULATIVE AREA = 82.15 SQ MI

**

HYDROGRAPH AT STATION COut
SUM OF 4 HYDROGRAPHS
PLAN 1, RATIO = .44

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*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*				
DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

1	0000	1	0.	*	1	0410	51	73.	*	1	0820	101	9.	*	1	1230	151	0.
1	0005	2	0.	*	1	0415	52	77.	*	1	0825	102	8.	*	1	1235	152	0.
1	0010	3	0.	*	1	0420	53	81.	*	1	0830	103	7.	*	1	1240	153	0.
1	0015	4	0.	*	1	0425	54	85.	*	1	0835	104	6.	*	1	1245	154	0.
1	0020	5	1.	*	1	0430	55	87.	*	1	0840	105	5.	*	1	1250	155	0.
1	0025	6	1.	*	1	0435	56	89.	*	1	0845	106	5.	*	1	1255	156	0.
1	0030	7	2.	*	1	0440	57	91.	*	1	0850	107	4.	*	1	1300	157	0.
1	0035	8	3.	*	1	0445	58	92.	*	1	0855	108	3.	*	1	1305	158	0.
1	0040	9	4.	*	1	0450	59	93.	*	1	0900	109	3.	*	1	1310	159	0.
1	0045	10	5.	*	1	0455	60	94.	*	1	0905	110	3.	*	1	1315	160	0.
1	0050	11	6.	*	1	0500	61	94.	*	1	0910	111	2.	*	1	1320	161	0.
1	0055	12	7.	*	1	0505	62	95.	*	1	0915	112	2.	*	1	1325	162	0.
1	0100	13	8.	*	1	0510	63	96.	*	1	0920	113	2.	*	1	1330	163	0.
1	0105	14	9.	*	1	0515	64	97.	*	1	0925	114	1.	*	1	1335	164	0.
1	0110	15	11.	*	1	0520	65	98.	*	1	0930	115	1.	*	1	1340	165	0.
1	0115	16	13.	*	1	0525	66	98.	*	1	0935	116	1.	*	1	1345	166	0.
1	0120	17	15.	*	1	0530	67	97.	*	1	0940	117	1.	*	1	1350	167	0.
1	0125	18	17.	*	1	0535	68	96.	*	1	0945	118	1.	*	1	1355	168	0.
1	0130	19	18.	*	1	0540	69	95.	*	1	0950	119	1.	*	1	1400	169	0.
1	0135	20	20.	*	1	0545	70	93.	*	1	0955	120	1.	*	1	1405	170	0.
1	0140	21	22.	*	1	0550	71	92.	*	1	1000	121	0.	*	1	1410	171	0.
1	0145	22	23.	*	1	0555	72	90.	*	1	1005	122	0.	*	1	1415	172	0.
1	0150	23	24.	*	1	0600	73	88.	*	1	1010	123	0.	*	1	1420	173	0.
1	0155	24	25.	*	1	0605	74	86.	*	1	1015	124	0.	*	1	1425	174	0.
1	0200	25	26.	*	1	0610	75	84.	*	1	1020	125	0.	*	1	1430	175	0.
1	0205	26	26.	*	1	0615	76	81.	*	1	1025	126	0.	*	1	1435	176	0.
1	0210	27	27.	*	1	0620	77	78.	*	1	1030	127	0.	*	1	1440	177	0.
1	0215	28	27.	*	1	0625	78	75.	*	1	1035	128	0.	*	1	1445	178	0.
1	0220	29	27.	*	1	0630	79	72.	*	1	1040	129	0.	*	1	1450	179	0.
1	0225	30	28.	*	1	0635	80	68.	*	1	1045	130	0.	*	1	1455	180	0.
1	0230	31	28.	*	1	0640	81	64.	*	1	1050	131	0.	*	1	1500	181	0.
1	0235	32	28.	*	1	0645	82	60.	*	1	1055	132	0.	*	1	1505	182	0.
1	0240	33	29.	*	1	0650	83	55.	*	1	1100	133	0.	*	1	1510	183	0.
1	0245	34	29.	*	1	0655	84	51.	*	1	1105	134	0.	*	1	1515	184	0.
1	0250	35	30.	*	1	0700	85	47.	*	1	1110	135	0.	*	1	1520	185	0.
1	0255	36	30.	*	1	0705	86	43.	*	1	1115	136	0.	*	1	1525	186	0.
1	0300	37	31.	*	1	0710	87	39.	*	1	1120	137	0.	*	1	1530	187	0.

1	0305	38	31.	*	1	0715	88	36.	*	1	1125	138	0.	*	1	1535	188	0.
1	0310	39	32.	*	1	0720	89	33.	*	1	1130	139	0.	*	1	1540	189	0.
1	0315	40	32.	*	1	0725	90	30.	*	1	1135	140	0.	*	1	1545	190	0.
1	0320	41	33.	*	1	0730	91	28.	*	1	1140	141	0.	*	1	1550	191	0.
1	0325	42	34.	*	1	0735	92	25.	*	1	1145	142	0.	*	1	1555	192	0.
1	0330	43	35.	*	1	0740	93	23.	*	1	1150	143	0.	*	1	1600	193	0.
1	0335	44	38.	*	1	0745	94	21.	*	1	1155	144	0.	*	1	1605	194	0.
1	0340	45	41.	*	1	0750	95	19.	*	1	1200	145	0.	*	1	1610	195	0.
1	0345	46	45.	*	1	0755	96	17.	*	1	1205	146	0.	*	1	1615	196	0.
1	0350	47	50.	*	1	0800	97	15.	*	1	1210	147	0.	*	1	1620	197	0.
1	0355	48	55.	*	1	0805	98	13.	*	1	1215	148	0.	*	1	1625	198	0.
1	0400	49	62.	*	1	0810	99	12.	*	1	1220	149	0.	*	1	1630	199	0.
1	0405	50	68.	*	1	0815	100	11.	*	1	1225	150	0.	*	1	1635	200	0.

**

712

+ (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	16.58-HR
	(CFS)				
+ 98.	5.42	58.	23.	23.	23.
	(INCHES)	.007	.007	.007	.007
	(AC-FT)	29.	31.	31.	31.

CUMULATIVE AREA = 82.15 SQ MI

**

HYDROGRAPH AT STATION COut
SUM OF 4 HYDROGRAPHS
PLAN 1, RATIO = .38

**

		*		*		*		*		*		*		*		*		*		*
DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	
1	0000	1	0.	* 1	0410	51	42.	* 1	0820	101	8.	* 1	1230	151	0.					
1	0005	2	0.	* 1	0415	52	44.	* 1	0825	102	7.	* 1	1235	152	0.					
1	0010	3	0.	* 1	0420	53	47.	* 1	0830	103	6.	* 1	1240	153	0.					
1	0015	4	0.	* 1	0425	54	49.	* 1	0835	104	5.	* 1	1245	154	0.					
1	0020	5	1.	* 1	0430	55	52.	* 1	0840	105	5.	* 1	1250	155	0.					
1	0025	6	1.	* 1	0435	56	54.	* 1	0845	106	4.	* 1	1255	156	0.					
1	0030	7	2.	* 1	0440	57	56.	* 1	0850	107	3.	* 1	1300	157	0.					
1	0035	8	2.	* 1	0445	58	58.	* 1	0855	108	3.	* 1	1305	158	0.					
1	0040	9	3.	* 1	0450	59	59.	* 1	0900	109	3.	* 1	1310	159	0.					
1	0045	10	4.	* 1	0455	60	60.	* 1	0905	110	2.	* 1	1315	160	0.					
1	0050	11	5.	* 1	0500	61	61.	* 1	0910	111	2.	* 1	1320	161	0.					
1	0055	12	6.	* 1	0505	62	61.	* 1	0915	112	2.	* 1	1325	162	0.					
1	0100	13	7.	* 1	0510	63	61.	* 1	0920	113	1.	* 1	1330	163	0.					
1	0105	14	8.	* 1	0515	64	61.	* 1	0925	114	1.	* 1	1335	164	0.					
1	0110	15	9.	* 1	0520	65	61.	* 1	0930	115	1.	* 1	1340	165	0.					
1	0115	16	11.	* 1	0525	66	60.	* 1	0935	116	1.	* 1	1345	166	0.					
1	0120	17	13.	* 1	0530	67	60.	* 1	0940	117	1.	* 1	1350	167	0.					
1	0125	18	14.	* 1	0535	68	59.	* 1	0945	118	1.	* 1	1355	168	0.					
1	0130	19	16.	* 1	0540	69	59.	* 1	0950	119	1.	* 1	1400	169	0.					
1	0135	20	17.	* 1	0545	70	58.	* 1	0955	120	0.	* 1	1405	170	0.					
1	0140	21	19.	* 1	0550	71	58.	* 1	1000	121	0.	* 1	1410	171	0.					
1	0145	22	20.	* 1	0555	72	57.	* 1	1005	122	0.	* 1	1415	172	0.					
1	0150	23	21.	* 1	0600	73	57.	* 1	1010	123	0.	* 1	1420	173	0.					
1	0155	24	21.	* 1	0605	74	56.	* 1	1015	124	0.	* 1	1425	174	0.					
1	0200	25	22.	* 1	0610	75	55.	* 1	1020	125	0.	* 1	1430	175	0.					
1	0205	26	23.	* 1	0615	76	53.	* 1	1025	126	0.	* 1	1435	176	0.					
1	0210	27	23.	* 1	0620	77	52.	* 1	1030	127	0.	* 1	1440	177	0.					
1	0215	28	23.	* 1	0625	78	50.	* 1	1035	128	0.	* 1	1445	178	0.					
1	0220	29	24.	* 1	0630	79	48.	* 1	1040	129	0.	* 1	1450	179	0.					
1	0225	30	24.	* 1	0635	80	45.	* 1	1045	130	0.	* 1	1455	180	0.					
1	0230	31	24.	* 1	0640	81	43.	* 1	1050	131	0.	* 1	1500	181	0.					

1	0235	32	25.	*	1	0645	82	40.	*	1	1055	132	0.	*	1	1505	182	0.
1	0240	33	25.	*	1	0650	83	38.	*	1	1100	133	0.	*	1	1510	183	0.
1	0245	34	25.	*	1	0655	84	35.	*	1	1105	134	0.	*	1	1515	184	0.
1	0250	35	26.	*	1	0700	85	33.	*	1	1110	135	0.	*	1	1520	185	0.
1	0255	36	26.	*	1	0705	86	30.	*	1	1115	136	0.	*	1	1525	186	0.
1	0300	37	27.	*	1	0710	87	28.	*	1	1120	137	0.	*	1	1530	187	0.
1	0305	38	27.	*	1	0715	88	26.	*	1	1125	138	0.	*	1	1535	188	0.
1	0310	39	28.	*	1	0720	89	24.	*	1	1130	139	0.	*	1	1540	189	0.
1	0315	40	28.	*	1	0725	90	23.	*	1	1135	140	0.	*	1	1545	190	0.
1	0320	41	29.	*	1	0730	91	21.	*	1	1140	141	0.	*	1	1550	191	0.
1	0325	42	29.	*	1	0735	92	19.	*	1	1145	142	0.	*	1	1555	192	0.
1	0330	43	30.	*	1	0740	93	18.	*	1	1150	143	0.	*	1	1600	193	0.
1	0335	44	31.	*	1	0745	94	16.	*	1	1155	144	0.	*	1	1605	194	0.
1	0340	45	32.	*	1	0750	95	15.	*	1	1200	145	0.	*	1	1610	195	0.
1	0345	46	33.	*	1	0755	96	14.	*	1	1205	146	0.	*	1	1615	196	0.
1	0350	47	34.	*	1	0800	97	12.	*	1	1210	147	0.	*	1	1620	197	0.
1	0355	48	36.	*	1	0805	98	11.	*	1	1215	148	0.	*	1	1625	198	0.
1	0400	49	38.	*	1	0810	99	10.	*	1	1220	149	0.	*	1	1630	199	0.
1	0405	50	40.	*	1	0815	100	9.	*	1	1225	150	0.	*	1	1635	200	0.

**

PEAK FLOW + (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW			
		6-HR (CFS)	24-HR (CFS)	72-HR (CFS)	16.58-HR (CFS)
+ 61.	5.17	39.	16.	16.	16.
	(INCHES)	.004	.005	.005	.005
	(AC-FT)	19.	21.	21.	21.

CUMULATIVE AREA = 82.15 SQ MI

**

HYDROGRAPH AT STATION COut
SUM OF 4 HYDROGRAPHS
PLAN 1, RATIO = .32

**

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	0000	1	0.	* 1	0410	51	35.	* 1	0820	101	6.	* 1	1230	151	0.				
1	0005	2	0.	* 1	0415	52	37.	* 1	0825	102	6.	* 1	1235	152	0.				
1	0010	3	0.	* 1	0420	53	39.	* 1	0830	103	5.	* 1	1240	153	0.				
1	0015	4	0.	* 1	0425	54	41.	* 1	0835	104	4.	* 1	1245	154	0.				
1	0020	5	0.	* 1	0430	55	43.	* 1	0840	105	4.	* 1	1250	155	0.				
1	0025	6	1.	* 1	0435	56	45.	* 1	0845	106	3.	* 1	1255	156	0.				
1	0030	7	1.	* 1	0440	57	47.	* 1	0850	107	3.	* 1	1300	157	0.				
1	0035	8	2.	* 1	0445	58	49.	* 1	0855	108	2.	* 1	1305	158	0.				
1	0040	9	3.	* 1	0450	59	50.	* 1	0900	109	2.	* 1	1310	159	0.				
1	0045	10	3.	* 1	0455	60	51.	* 1	0905	110	2.	* 1	1315	160	0.				
1	0050	11	4.	* 1	0500	61	51.	* 1	0910	111	2.	* 1	1320	161	0.				
1	0055	12	5.	* 1	0505	62	52.	* 1	0915	112	1.	* 1	1325	162	0.				
1	0100	13	6.	* 1	0510	63	52.	* 1	0920	113	1.	* 1	1330	163	0.				
1	0105	14	7.	* 1	0515	64	51.	* 1	0925	114	1.	* 1	1335	164	0.				
1	0110	15	8.	* 1	0520	65	51.	* 1	0930	115	1.	* 1	1340	165	0.				
1	0115	16	9.	* 1	0525	66	51.	* 1	0935	116	1.	* 1	1345	166	0.				
1	0120	17	11.	* 1	0530	67	50.	* 1	0940	117	1.	* 1	1350	167	0.				
1	0125	18	12.	* 1	0535	68	50.	* 1	0945	118	1.	* 1	1355	168	0.				
1	0130	19	13.	* 1	0540	69	49.	* 1	0950	119	0.	* 1	1400	169	0.				
1	0135	20	15.	* 1	0545	70	49.	* 1	0955	120	0.	* 1	1405	170	0.				
1	0140	21	16.	* 1	0550	71	49.	* 1	1000	121	0.	* 1	1410	171	0.				
1	0145	22	17.	* 1	0555	72	48.	* 1	1005	122	0.	* 1	1415	172	0.				
1	0150	23	17.	* 1	0600	73	48.	* 1	1010	123	0.	* 1	1420	173	0.				

715

1	0155	24	18.	*	1	0605	74	47.	*	1	1015	124	0.	*	1	1425	174	0.
1	0200	25	19.	*	1	0610	75	46.	*	1	1020	125	0.	*	1	1430	175	0.
1	0205	26	19.	*	1	0615	76	45.	*	1	1025	126	0.	*	1	1435	176	0.
1	0210	27	19.	*	1	0620	77	44.	*	1	1030	127	0.	*	1	1440	177	0.
1	0215	28	20.	*	1	0625	78	42.	*	1	1035	128	0.	*	1	1445	178	0.
1	0220	29	20.	*	1	0630	79	40.	*	1	1040	129	0.	*	1	1450	179	0.
1	0225	30	20.	*	1	0635	80	38.	*	1	1045	130	0.	*	1	1455	180	0.
1	0230	31	20.	*	1	0640	81	36.	*	1	1050	131	0.	*	1	1500	181	0.
1	0235	32	21.	*	1	0645	82	34.	*	1	1055	132	0.	*	1	1505	182	0.
1	0240	33	21.	*	1	0650	83	32.	*	1	1100	133	0.	*	1	1510	183	0.
1	0245	34	21.	*	1	0655	84	30.	*	1	1105	134	0.	*	1	1515	184	0.
1	0250	35	22.	*	1	0700	85	28.	*	1	1110	135	0.	*	1	1520	185	0.
1	0255	36	22.	*	1	0705	86	26.	*	1	1115	136	0.	*	1	1525	186	0.
1	0300	37	22.	*	1	0710	87	24.	*	1	1120	137	0.	*	1	1530	187	0.
1	0305	38	23.	*	1	0715	88	22.	*	1	1125	138	0.	*	1	1535	188	0.
1	0310	39	23.	*	1	0720	89	21.	*	1	1130	139	0.	*	1	1540	189	0.
1	0315	40	24.	*	1	0725	90	19.	*	1	1135	140	0.	*	1	1545	190	0.
1	0320	41	24.	*	1	0730	91	18.	*	1	1140	141	0.	*	1	1550	191	0.
1	0325	42	24.	*	1	0735	92	16.	*	1	1145	142	0.	*	1	1555	192	0.
1	0330	43	25.	*	1	0740	93	15.	*	1	1150	143	0.	*	1	1600	193	0.
1	0335	44	26.	*	1	0745	94	14.	*	1	1155	144	0.	*	1	1605	194	0.
1	0340	45	27.	*	1	0750	95	13.	*	1	1200	145	0.	*	1	1610	195	0.
1	0345	46	28.	*	1	0755	96	11.	*	1	1205	146	0.	*	1	1615	196	0.
1	0350	47	29.	*	1	0800	97	10.	*	1	1210	147	0.	*	1	1620	197	0.
1	0355	48	30.	*	1	0805	98	9.	*	1	1215	148	0.	*	1	1625	198	0.
1	0400	49	32.	*	1	0810	99	8.	*	1	1220	149	0.	*	1	1630	199	0.
1	0405	50	33.	*	1	0815	100	7.	*	1	1225	150	0.	*	1	1635	200	0.
			*			*		*			*							

**

PEAK FLOW + (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	16.58-HR
+ 52.	5.17	33.	13.	13.	13.

(INCHES) .004 .004 .004 .004
 (AC-FT) 16. 18. 18. 18.

CUMULATIVE AREA = 82.15 SQ MI

 **

HYDROGRAPH AT STATION COut
 SUM OF 4 HYDROGRAPHS
 PLAN 1, RATIO = .26

 **

717

	*				*				*										
DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
			*				*					*					*		
1	0000	1	0.	* 1	0410	51	28.	* 1	0820	101	5.	* 1	1230	151	0.				
1	0005	2	0.	* 1	0415	52	30.	* 1	0825	102	5.	* 1	1235	152	0.				
1	0010	3	0.	* 1	0420	53	32.	* 1	0830	103	4.	* 1	1240	153	0.				
1	0015	4	0.	* 1	0425	54	34.	* 1	0835	104	4.	* 1	1245	154	0.				
1	0020	5	0.	* 1	0430	55	35.	* 1	0840	105	3.	* 1	1250	155	0.				
1	0025	6	1.	* 1	0435	56	37.	* 1	0845	106	3.	* 1	1255	156	0.				
1	0030	7	1.	* 1	0440	57	38.	* 1	0850	107	2.	* 1	1300	157	0.				
1	0035	8	2.	* 1	0445	58	40.	* 1	0855	108	2.	* 1	1305	158	0.				
1	0040	9	2.	* 1	0450	59	41.	* 1	0900	109	2.	* 1	1310	159	0.				
1	0045	10	3.	* 1	0455	60	41.	* 1	0905	110	1.	* 1	1315	160	0.				
1	0050	11	3.	* 1	0500	61	42.	* 1	0910	111	1.	* 1	1320	161	0.				
1	0055	12	4.	* 1	0505	62	42.	* 1	0915	112	1.	* 1	1325	162	0.				
1	0100	13	5.	* 1	0510	63	42.	* 1	0920	113	1.	* 1	1330	163	0.				
1	0105	14	6.	* 1	0515	64	42.	* 1	0925	114	1.	* 1	1335	164	0.				
1	0110	15	6.	* 1	0520	65	42.	* 1	0930	115	1.	* 1	1340	165	0.				
1	0115	16	8.	* 1	0525	66	41.	* 1	0935	116	1.	* 1	1345	166	0.				
1	0120	17	9.	* 1	0530	67	41.	* 1	0940	117	0.	* 1	1350	167	0.				

1	0125	18	10.	*	1	0535	68	40.	*	1	0945	118	0.	*	1	1355	168	0.
1	0130	19	11.	*	1	0540	69	40.	*	1	0950	119	0.	*	1	1400	169	0.
1	0135	20	12.	*	1	0545	70	40.	*	1	0955	120	0.	*	1	1405	170	0.
1	0140	21	13.	*	1	0550	71	40.	*	1	1000	121	0.	*	1	1410	171	0.
1	0145	22	13.	*	1	0555	72	39.	*	1	1005	122	0.	*	1	1415	172	0.
1	0150	23	14.	*	1	0600	73	39.	*	1	1010	123	0.	*	1	1420	173	0.
1	0155	24	15.	*	1	0605	74	38.	*	1	1015	124	0.	*	1	1425	174	0.
1	0200	25	15.	*	1	0610	75	38.	*	1	1020	125	0.	*	1	1430	175	0.
1	0205	26	15.	*	1	0615	76	37.	*	1	1025	126	0.	*	1	1435	176	0.
1	0210	27	16.	*	1	0620	77	35.	*	1	1030	127	0.	*	1	1440	177	0.
1	0215	28	16.	*	1	0625	78	34.	*	1	1035	128	0.	*	1	1445	178	0.
1	0220	29	16.	*	1	0630	79	33.	*	1	1040	129	0.	*	1	1450	179	0.
1	0225	30	16.	*	1	0635	80	31.	*	1	1045	130	0.	*	1	1455	180	0.
1	0230	31	17.	*	1	0640	81	29.	*	1	1050	131	0.	*	1	1500	181	0.
1	0235	32	17.	*	1	0645	82	28.	*	1	1055	132	0.	*	1	1505	182	0.
1	0240	33	17.	*	1	0650	83	26.	*	1	1100	133	0.	*	1	1510	183	0.
1	0245	34	17.	*	1	0655	84	24.	*	1	1105	134	0.	*	1	1515	184	0.
1	0250	35	18.	*	1	0700	85	22.	*	1	1110	135	0.	*	1	1520	185	0.
1	0255	36	18.	*	1	0705	86	21.	*	1	1115	136	0.	*	1	1525	186	0.
1	0300	37	18.	*	1	0710	87	19.	*	1	1120	137	0.	*	1	1530	187	0.
1	0305	38	19.	*	1	0715	88	18.	*	1	1125	138	0.	*	1	1535	188	0.
1	0310	39	19.	*	1	0720	89	17.	*	1	1130	139	0.	*	1	1540	189	0.
1	0315	40	19.	*	1	0725	90	15.	*	1	1135	140	0.	*	1	1545	190	0.
1	0320	41	20.	*	1	0730	91	14.	*	1	1140	141	0.	*	1	1550	191	0.
1	0325	42	20.	*	1	0735	92	13.	*	1	1145	142	0.	*	1	1555	192	0.
1	0330	43	20.	*	1	0740	93	12.	*	1	1150	143	0.	*	1	1600	193	0.
1	0335	44	21.	*	1	0745	94	11.	*	1	1155	144	0.	*	1	1605	194	0.
1	0340	45	22.	*	1	0750	95	10.	*	1	1200	145	0.	*	1	1610	195	0.
1	0345	46	23.	*	1	0755	96	9.	*	1	1205	146	0.	*	1	1615	196	0.
1	0350	47	23.	*	1	0800	97	8.	*	1	1210	147	0.	*	1	1620	197	0.
1	0355	48	25.	*	1	0805	98	8.	*	1	1215	148	0.	*	1	1625	198	0.
1	0400	49	26.	*	1	0810	99	7.	*	1	1220	149	0.	*	1	1630	199	0.
1	0405	50	27.	*	1	0815	100	6.	*	1	1225	150	0.	*	1	1635	200	0.

*

*

*

**

PEAK FLOW (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	16.58-HR
42.	5.17	27.	11.	11.	11.
	(INCHES)	.003	.003	.003	.003
	(AC-FT)	13.	15.	15.	15.

CUMULATIVE AREA = 82.15 SQ MI

1

PEAK FLOW AND STAGE (END-OF-PERIOD) SUMMARY FOR MULTIPLE PLAN-RATIO ECONOMIC COMPUTATIONS
 FLOWS IN CUBIC FEET PER SECOND, AREA IN SQUARE MILES
 TIME TO PEAK IN HOURS

719

OPERATION	STATION	AREA	PLAN	RATIOS APPLIED TO PRECIPITATION				
				RATIO 1	RATIO 2	RATIO 3	RATIO 4	RATIO 5
		.62	.44	.38	.32	.26		

HYDROGRAPH AT

+	WSage	7.86	1	FLOW	670.	39.	20.	17.	14.
				TIME	4.00	4.00	3.92	3.92	3.92

ROUTED TO

+	RWsage	7.86	1	FLOW	532.	33.	18.	15.	12.
				TIME	5.08	5.08	5.00	5.00	5.00

HYDROGRAPH AT

+	RFan	12.56	1	FLOW	376.	8.	7.	6.	5.
				TIME	4.67	4.58	4.58	4.58	4.58

HYDROGRAPH AT

+	NWest	12.27	1	FLOW	935.	49.	19.	16.	13.
				TIME	4.08	4.08	4.00	4.00	4.00

3 COMBINED AT

+ CRfan 32.69 1 FLOW 1209. 64. 35. 29. 24.
 TIME 4.17 4.17 5.00 5.00 5.00

ROUTED TO

+ RCRfan 32.69 1 FLOW 1113. 59. 34. 29. 23.
 TIME 5.25 5.25 5.83 5.83 5.83

HYDROGRAPH AT

+ WCent 9.40 1 FLOW 910. 17. 13. 11. 9.
 TIME 3.92 3.83 3.83 3.83 3.83

ROUTED TO

+ RCWCent 9.40 1 FLOW 762. 15. 12. 10. 8.
 TIME 4.33 4.25 4.25 4.25 4.25

HYDROGRAPH AT

+ Fplain 10.61 1 FLOW 328. 7. 6. 5. 4.
 TIME 4.33 4.25 4.25 4.25 4.25

720

3 COMBINED AT

+ CFplain 52.71 1 FLOW 1369. 71. 43. 36. 29.
 TIME 4.92 5.25 5.58 5.58 5.58

ROUTED TO

+ RCFplain 52.71 1 FLOW 1357. 70. 42. 35. 29.
 TIME 5.33 5.75 6.00 6.00 6.00

HYDROGRAPH AT

+ SCen 7.56 1 FLOW 413. 6. 5. 5. 4.
 TIME 4.08 4.00 4.00 4.00 4.00

HYDROGRAPH AT

+ HVal 11.14 1 FLOW 353. 20. 18. 15. 12.
 TIME 4.25 4.25 4.25 4.25 4.25

ROUTED TO

+ RHval 11.14 1 FLOW 322. 19. 17. 14. 11.
TIME 5.08 5.00 5.00 5.00 5.00

HYDROGRAPH AT

+ SOct 10.75 1 FLOW 617. 34. 6. 5. 4.
TIME 4.33 4.33 4.25 4.25 4.25

4 COMBINED AT

+ COut 82.15 1 FLOW 2015. 98. 61. 52. 42.
TIME 4.83 5.42 5.17 5.17 5.17

HYDROGRAPH AT

+ SEast 3.71 1 FLOW 319. 10. 8. 7. 6.
TIME 3.92 3.83 3.83 3.83 3.83

HYDROGRAPH AT

+ SWest 2.16 1 FLOW 250. 7. 6. 5. 4.
TIME 3.67 3.67 3.67 3.67 3.67

3 COMBINED AT

+ CTotal 88.02 1 FLOW 2045. 103. 68. 57. 46.
TIME 4.83 5.17 5.00 5.00 5.00

*** NORMAL END OF HEC-1 ***

```

*****
*                               *
* FLOOD HYDROGRAPH PACKAGE (HEC-1) *
*   JUN 1998                     *
*   VERSION 4.1                   *
* RUN DATE 09AUG10 TIME 16:48:48 *
*                               *
*****
*****
*                               *
* U.S. ARMY CORPS OF ENGINEERS *
* HYDROLOGIC ENGINEERING CENTER *
*   609 SECOND STREET           *
* DAVIS, CALIFORNIA 95616      *
*   (916) 756-1104             *
*                               *
*****

```

```

X X XXXXXXXX XXXXX X
X X X X X XX
X X X X X
XXXXXXXX XXXX X XXXXX X
X X X X X
X X X X X
X X XXXXXXXX XXXXX XXX

```

722

THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE.

THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION
 NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY,
 DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL LOSS RATE:GREEN AND AMPT INFILTRATION
 KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

*DIAGRAM

*** FREE ***

```

1 ID *****
2 ID * .....*
3 ID * : .....: *
4 ID * : EFFECT OF SPATIAL AND TEMPORAL VARIABILITY : *
5 ID * : OF ANTECEDENT MOISTURE CONTENT ON : *
6 ID * : MODEL-GENERATED RUNOFF : *
7 ID * : FROM A WATERSHED : *
8 ID * : .....: *
9 ID * : .....: *
10 ID * : RETURN PERIOD__ 100-YEAR : *
11 ID * : DISTRIBUTION__ 6-HOUR SDN 5 : *
12 ID * : FILENAME_____ 0.1Ks4.h1 : *
13 ID * : DATE_____ 08/09/10 : *
14 ID * : MODELED BY_____ WJM : *
15 ID * : .....: *
16 ID *****
17 ID * : .....: *
18 ID * : 1. Total watershed area is 88 sq. mi. : *
19 ID * : 2. DARF is 0.62 for area : *
20 ID * : 3. 500 Year Precip. Value is 3.02 in. : *
21 ID * : 4. 500 Year DARF value 0.62 : *
22 ID * : 5. 100 Year DARF value 0.44 : *
23 ID * : 6. 50 Year DARF value 0.38 : *
24 ID * : 7. 25 Year DARF value 0.32 : *
25 ID * : 8. 10 Year DARF Value 0.26 : *
26 ID * : 9. 2 Year DARF Value 0.15 : *
27 ID * :10. USBR Lag time : *
28 ID * : .....: *
29 ID *****
30 ID
31 IT 5 0000 300
32 IO 5
33 IN 5 0 0

```

723

34 JR PREC 0.44 0.62
 35 KK WSage
 36 KM White Sage Gap
 37 BA 7.859
 38 PB 3.02
 39 PC 0.000 0.020 0.059 0.080 0.110 0.144 0.150 0.160 0.168 0.171
 40 PC 0.180 0.182 0.187 0.190 0.197 0.202 0.210 0.220 0.230 0.241
 41 PC 0.250 0.259 0.265 0.280 0.290 0.300 0.305 0.309 0.310 0.317
 42 PC 0.321 0.327 0.333 0.346 0.361 0.381 0.408 0.430 0.477 0.514
 43 PC 0.561 0.630 0.710 0.720 0.731 0.752 0.779 0.790 0.795 0.804
 44 PC 0.810 0.820 0.826 0.840 0.859 0.889 0.910 0.938 0.966 0.970
 45 PC 0.974 0.979 0.981 0.983 0.985 0.989 0.990 0.992 0.993 0.996
 46 PC 0.997 0.999 1.000
 47 KM Ia Deficit Cap Ks IMP
 48 LG 0.046 0.271 1.426 0.0459 0.855
 49 UD 0.60

*

HEC-1 INPUT

PAGE 2

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

50 KK RWsage
 51 KM Route WSage through RFan
 52 KM N K X
 53 RM 12 1.03 0.15

*

54 KK RFan
 55 KM Red Alluvial Fan
 56 BA 12.565
 57 PB 3.02
 58 KM Ia Deficit Cap Ks IMP
 59 LG 0.038 0.274 1.695 0.0527 0.277
 60 UD 1.19

*

724 1

61 KK NWest
 62 KM North west mountains
 63 BA 12.269
 64 PB 3.02
 65 KM Ia Deficit Cap Ks IMP
 66 LG 0.036 0.266 1.526 0.0478 0.552
 67 UD 0.67
 *

68 KK CRfan
 69 KM Redfan concentration point
 70 HC 3
 *

71 KK RCRfan
 72 KM Route Redfan concentration point
 73 KM through channel at west side of floodplain
 74 KM N K X
 75 RM 11 0.94 0.15
 *

76 KK WCent
 77 KM West central mountains
 78 BA 9.403
 79 PB 3.02
 80 KM Ia Deficit Cap Ks IMP
 81 LG 0.042 0.275 1.494 0.0477 0.407
 82 UD 0.46
 *

83 KK RCWCent
 84 KM Route CWCent along west side of floodplain
 85 KM N K X
 86 RM 5 0.45 0.15
 *

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

87 KK Fplain
88 KM Floodplain
89 BA 10.614
90 PB 3.02
91 KM Ia Deficit Cap Ks IMP
92 LG 0.043 0.304 1.482 0.0541 0.245
93 UD 0.92

*

94 KK CFplain
95 HC 3

*

96 KKRCFplain
97 KM Route Flood plain concentration point
98 KM N K X
99 RM 5 0.44 0.15

*

100 KK SCen
101 KM South central mountains
102 BA 7.562
103 PB 3.02
104 KM Ia Deficit Cap Ks IMP
105 LG 0.041 0.292 1.547 0.0516 0.247
106 UD 0.64

*

107 KK HVal
108 KM High valley on east side of watershed
109 BA 11.137
110 PB 3.02
111 KM Ia Deficit Cap Ks IMP

726

112 LG 0.049 0.287 1.580 0.0555 0.630
113 UD 0.86

*

114 KK RHval
115 KM Route High Valley basin
116 KM N K X
117 RM 9 0.75 0.15

*

118 KK SOct
119 KM South octagon area and east mountains
120 BA 10.746
121 PB 3.02
122 KM Ia Deficit Cap Ks IMP
123 LG 0.039 0.266 1.481 0.0467 0.246
124 UD 0.92

*

727

1

HEC-1 INPUT

PAGE 4

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

125 KK COut
126 KM KO 2
127 HC 4

*

128 KK SEast
129 KM Southeast adjacent basin
130 BA 3.707
131 PB 3.02
132 KM Ia Deficit Cap Ks IMP
133 LG 0.044 0.277 1.559 0.0496 0.653
134 UD 0.45

*

135 KK SWest
 136 KM South west adjacent basin
 137 BA 2.156
 138 PB 3.02
 139 KM Ia Deficit Cap Ks IMP
 140 LG 0.039 0.296 1.674 0.0547 0.680
 141 UD 0.25
 *
 142 KK CTotal
 143 KM KO 2
 144 HC 3
 *
 145 ZZ

1

SCHEMATIC DIAGRAM OF STREAM NETWORK

INPUT

LINE (V) ROUTING (--->) DIVERSION OR PUMP FLOW

728

NO. (.) CONNECTOR (<---) RETURN OF DIVERTED OR PUMPED FLOW

35 WSage
 V
 V
 50 RWSage
 .
 .
 54 . RFan
 .
 .
 61 . . NWest
 .
 .
 68 CRfan.....
 V
 V
 71 RCRfan

	.		
76	.	WCent	
	.	V	
	.	V	
83	.	RCWCent	
	.	.	
	.	.	
87	.	.	Fplain
	.	.	.
	.	.	.
94	CFplain.....		
	V		
	V		
96	RCFplain		
	.		
100	.	SCen	
	.	.	
107	.	.	HVal
	.	.	V
	.	.	V
114	.	.	RHval
	.	.	.
	.	.	.
118	.	.	SOct
	.	.	.
	.	.	.
125	COut.....		
	.		
	.		
128	.	SEast	
	.	.	
	.	.	
135	.	.	SWest
	.	.	.

142 CTotal.....

(***) RUNOFF ALSO COMPUTED AT THIS LOCATION

```

1*****
*                                     *
* FLOOD HYDROGRAPH PACKAGE (HEC-1) *
*   JUN 1998                         *
*   VERSION 4.1                       *
* RUN DATE 09AUG10 TIME 16:48:48 *
*                                     *
*****
*                                     *
* U.S. ARMY CORPS OF ENGINEERS *
* HYDROLOGIC ENGINEERING CENTER *
* 609 SECOND STREET             *
* DAVIS, CALIFORNIA 95616      *
* (916) 756-1104               *
*                                     *
*****

```

730

```

*****
* ..... *
* : *
* : EFFECT OF SPATIAL AND TEMPORAL VARIABILITY : *
* : OF ANTECEDENT MOISTURE CONTENT ON : *
* : MODEL-GENERATED RUNOFF : *
* : FROM A WATERSHED : *
* : *
* : ..... *
* : RETURN PERIOD__ 100-YEAR : *
* : DISTRIBUTION___ 6-HOUR SDN 5 : *
* : FILENAME_____ 0.1Ks4.h1 : *
* : DATE_ _ _ _ _ 08/09/10 : *
* : MODELED BY_ _ _ _ WJM : *
* : ..... *
*****
* : *
* : 1. Total watershed area is 88 sq. mi. : *
* : 2. DARF is 0.62 for area : *

```

```

* : 3. 500 Year Precip. Value is 3.02 in.      : *
* : 4. 500 Year DARF value 0.62              : *
* : 5. 100 Year DARF value 0.44              : *
* : 6. 50 Year DARF value 0.38               : *
* : 7. 25 Year DARF value 0.32              : *
* : 8. 10 Year DARF Value 0.26              : *
* : 9. 2 Year DARF Value 0.15              : *
* :10. USBR Lag time                        : *
* :.....: *
*****

```

```

32 IO  OUTPUT CONTROL VARIABLES
      IPRNT    5 PRINT CONTROL
      IPLOT    0 PLOT CONTROL
      QSCAL    0. HYDROGRAPH PLOT SCALE

```

```

IT  HYDROGRAPH TIME DATA
    NMIN      5 MINUTES IN COMPUTATION INTERVAL
    IDATE     1 00 0 STARTING DATE
    ITIME     0300 STARTING TIME
    NQ        101 NUMBER OF HYDROGRAPH ORDINATES
    NDDATE    1 0 ENDING DATE
    NDTIME    1120 ENDING TIME
    ICENT     19 CENTURY MARK

```

```

COMPUTATION INTERVAL .08 HOURS
TOTAL TIME BASE 8.33 HOURS

```

```

ENGLISH UNITS
DRAINAGE AREA    SQUARE MILES
PRECIPITATION DEPTH  INCHES
LENGTH, ELEVATION  FEET
FLOW              CUBIC FEET PER SECOND
STORAGE VOLUME    ACRE-FEET
SURFACE AREA      ACRES
TEMPERATURE       DEGREES FAHRENHEIT

```

JP MULTI-PLAN OPTION
 NPLAN 1 NUMBER OF PLANS

JR MULTI-RATIO OPTION
 RATIOS OF PRECIPITATION
 .44 .62

1

PEAK FLOW AND STAGE (END-OF-PERIOD) SUMMARY FOR MULTIPLE PLAN-RATIO ECONOMIC COMPUTATIONS
 FLOWS IN CUBIC FEET PER SECOND, AREA IN SQUARE MILES
 TIME TO PEAK IN HOURS

RATIOS APPLIED TO PRECIPITATION
 OPERATION STATION AREA PLAN RATIO 1 RATIO 2
 .44 .62

732

HYDROGRAPH AT
 + WSage 7.86 1 FLOW 2269. 3399.
 TIME 3.92 3.92

ROUTED TO
 + RWsage 7.86 1 FLOW 1953. 2951.
 TIME 5.00 5.00

HYDROGRAPH AT
 + RFan 12.56 1 FLOW 2186. 3434.
 TIME 4.58 4.58

HYDROGRAPH AT
 + NWest 12.27 1 FLOW 3284. 4952.
 TIME 4.00 4.00

3 COMBINED AT
 + CRfan 32.69 1 FLOW 5442. 8508.
 TIME 4.33 4.33

ROUTED TO

+ RCRfan 32.69 1 FLOW 5361. 8400.
TIME 5.67 5.67

HYDROGRAPH AT

+ WCent 9.40 1 FLOW 3122. 4658.
TIME 3.83 3.83

ROUTED TO

+ RCWCent 9.40 1 FLOW 2800. 4202.
TIME 4.25 4.25

HYDROGRAPH AT

+ Fplain 10.61 1 FLOW 2220. 3442.
TIME 4.25 4.25

3 COMBINED AT

+ CFplain 52.71 1 FLOW 7748. 12235.
TIME 5.42 5.42

ROUTED TO

+ RCFplain 52.71 1 FLOW 7648. 12088.
TIME 5.83 5.83

HYDROGRAPH AT

+ SCen 7.56 1 FLOW 2036. 3094.
TIME 4.00 4.00

HYDROGRAPH AT

+ HVal 11.14 1 FLOW 2428. 3761.
TIME 4.25 4.25

ROUTED TO

+ RHval 11.14 1 FLOW 2260. 3519.
TIME 5.00 5.00

733

HYDROGRAPH AT

+ SOct 10.75 1 FLOW 2351. 3584.
TIME 4.25 4.25

4 COMBINED AT

+ COut 82.15 1 FLOW 11672. 18576.
TIME 5.08 5.08

HYDROGRAPH AT

+ SEast 3.71 1 FLOW 1230. 1842.
TIME 3.83 3.83

HYDROGRAPH AT

+ SWest 2.16 1 FLOW 916. 1365.
TIME 3.67 3.67

3 COMBINED AT

+ CTotal 88.02 1 FLOW 12447. 19819.
TIME 5.00 5.00

734

*** NORMAL END OF HEC-1 ***

```

*****
*                               *
* FLOOD HYDROGRAPH PACKAGE (HEC-1) *
*   JUN 1998                     *
*   VERSION 4.1                   *
* RUN DATE 27JUL10 TIME 16:35:14 *
*                               *
*****

*****
*                               *
* U.S. ARMY CORPS OF ENGINEERS *
* HYDROLOGIC ENGINEERING CENTER *
*   609 SECOND STREET           *
* DAVIS, CALIFORNIA 95616      *
*   (916) 756-1104             *
*                               *
*****

```

```

X X XXXXXXXX XXXXX X
X X X X X XX
X X X X X
XXXXXXXX XXXX X XXXXX X
X X X X X
X X X X X
X X XXXXXXXX XXXXX XXX

```

735

THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE.

THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION
 NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY,
 DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL LOSS RATE:GREEN AND AMPT INFILTRATION
 KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

*DIAGRAM

*** FREE ***

```
1 ID *****
2 ID * .....*
3 ID * : : *
4 ID * : EFFECT OF SPATIAL AND TEMPORAL VARIABILITY : *
5 ID * : OF ANTECEDENT MOISTURE CONTENT ON : *
6 ID * : MODEL-GENERATED RUNOFF : *
7 ID * : FROM AN ARID WATERSHED : *
8 ID * : : *
9 ID * : .....*
10 ID * : RETURN PERIOD__ 100-YEAR : *
11 ID * : DISTRIBUTION__ 6-HOUR SDN 5 : *
12 ID * : FILENAME_____test2.3.h1 : *
13 ID * : DATE_____ 07/27/10 : *
14 ID * : MODELED BY_____ WJM : *
15 ID * : .....*
16 ID *****
17 ID * : : *
18 ID * : 1. Total watershed area is 88 sq. mi. : *
19 ID * : 2. DARF is 0.62 for area : *
20 ID * : 3. 500 Year Precip. Value is 3.02 in. : *
21 ID * : 4. 500 Year DARF value 0.62 : *
22 ID * : 5. 100 Year DARF value 0.44 : *
23 ID * : 6. 50 Year DARF value 0.38 : *
24 ID * : 7. 25 Year DARF value 0.32 : *
25 ID * : 8. 10 Year DARF Value 0.26 : *
26 ID * : 9. 2 Year DARF Value 0.15 : *
27 ID * :10. USBR Lag time : *
28 ID * : .....*
29 ID *****
30 ID
31 IT 5 0000 000 200
32 IO 5
33 IN 5 0 0
```

34 JR PREC 0.62

35 KK WSage

36 KM White Sage Gap

37 BA 7.859

38 PB 3.02

39 PC 0.000 0.020 0.059 0.080 0.110 0.144 0.150 0.160 0.168 0.171

40 PC 0.180 0.182 0.187 0.190 0.197 0.202 0.210 0.220 0.230 0.241

41 PC 0.250 0.259 0.265 0.280 0.290 0.300 0.305 0.309 0.310 0.317

42 PC 0.321 0.327 0.333 0.346 0.361 0.381 0.408 0.430 0.477 0.514

43 PC 0.561 0.630 0.710 0.720 0.731 0.752 0.779 0.790 0.795 0.804

44 PC 0.810 0.820 0.826 0.840 0.859 0.889 0.910 0.938 0.966 0.970

45 PC 0.974 0.979 0.981 0.983 0.985 0.989 0.990 0.992 0.993 0.996

46 PC 0.997 0.999 1.000

47 KM Ia Deficit Cap Ks IMP

48 LG 0.000 0.00 0.0 0.01 0.00

49 UD 0.60

*

HEC-1 INPUT

PAGE 2

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

50 KK RWsage

51 KM Route WSage through RFan

52 KM N K X

53 RM 12 1.03 0.15

*

54 KK RFan

55 KM Red Alluvial Fan

56 BA 12.565

57 PB 3.02

58 KM Ia Deficit Cap Ks IMP

59 LG 0.0 0.00 0.0 0.01 0.00

60 UD 1.19

*

737 1

61 KK NWest
 62 KM North west mountains
 63 BA 12.269
 64 PB 3.02
 65 KM Ia Deficit Cap Ks IMP
 66 LG 0.0 0.00 0.0 0.01 0.00
 67 UD 0.67
 *
 68 KK CRfan
 69 KM Redfan concentration point
 70 KM KO 2
 71 HC 3
 *
 72 KK RCRfan
 73 KM Route Redfan concentration point
 74 KM N K X
 75 RM 11 0.94 0.15
 *
 76 KK WCent
 77 KM West central mountains
 78 BA 9.403
 79 PB 3.02
 80 KM Ia Deficit Cap Ks IMP
 81 LG 0.0 0.00 0.0 0.01 0.00
 82 UD 0.46
 *
 83 KK RCWCent
 84 KM Route CWCent along west side of floodplain
 85 KM N K X
 86 RM 5 0.45 0.15
 *

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

87 KK Fplain
88 KM Floodplain
89 BA 10.614
90 PB 3.02
91 KM Ia Deficit Cap Ks IMP
92 LG 0.00 0.00 0.0 0.01 0.00
93 UD 0.92

*

94 KK CFplain
95 KM KO 2
96 HC 3

*

97 KKRCFplain
98 KM Route Flood plain concentration point
99 KM N K X
100 RM 5 0.44 0.15

*

101 KK SCen
102 KM South central mountains
103 BA 7.562
104 PB 3.02
105 KM Ia Deficit Cap Ks IMP
106 LG 0.00 0.00 0.0 0.01 0.00
107 UD 0.64

*

108 KK HVal
109 KM High valley on east side of watershed
110 BA 11.137
111 PB 3.02

739

112 KM Ia Deficit Cap Ks IMP
113 LG 0.0 0.00 0.0 0.01 0.00
114 UD 0.86

*

115 KK RHval
116 KM Route High Valley basin
117 KM N K X
118 RM 9 0.75 0.15

*

119 KK SOct
120 KM South octagon area and east mountains
121 BA 10.746
122 PB 3.02
123 KM Ia Deficit Cap Ks IMP
124 LG 0.000 0.00 0.0 0.01 0.000
125 UD 0.92

*

740

1

HEC-1 INPUT

PAGE 4

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

126 KK COut
127 KO 2
128 HC 4

*

129 KK SEast
130 KM Southeast adjacent basin
131 BA 3.707
132 PB 3.02
133 KM Ia Deficit Cap Ks IMP
134 LG 0.000 0.00 0.0 0.010 0.000
135 UD 0.45

*

136 KK SWest
 137 KM South west adjacent basin
 138 BA 2.156
 139 PB 3.02
 140 KM Ia Deficit Cap Ks IMP
 141 LG 0.000 0.00 0.0 0.01 0.000
 142 UD 0.25
 *
 143 KK CTotal
 144 KM KO 2
 145 HC 3
 *
 146 ZZ

1

SCHEMATIC DIAGRAM OF STREAM NETWORK

INPUT

741

LINE (V) ROUTING (--->) DIVERSION OR PUMP FLOW
 NO. (.) CONNECTOR (<---) RETURN OF DIVERTED OR PUMPED FLOW
 35 WSage
 V
 V
 50 RWSage
 .
 .
 54 . RFan
 .
 .
 61 . . NWest
 .
 .
 68 CRfan.....
 V
 V

72	RCRfan			
	.			
	.			
76	.	WCent		
	.	V		
	.	V		
83	.	RCWCent		
	.	.		
	.	.		
87	.	.	Fplain	
	.	.	.	
	.	.	.	
94	CFplain.....			
	V			
	V			
97	RCFplain			
	.			
	.			
101	.	SCen		
	.	.		
	.	.		
108	.	.	HVal	
	.	.	V	
	.	.	V	
115	.	.	RHval	
	.	.	.	
	.	.	.	
119	.	.	.	SOct

126	COut.....			
	.			
	.			
129	.	SEast		
	.	.		
	.	.		
136	.	.	SWest	

143 CTotal.....

(***) RUNOFF ALSO COMPUTED AT THIS LOCATION

```

|*****
*
* FLOOD HYDROGRAPH PACKAGE (HEC-1) *
* JUN 1998 *
* VERSION 4.1 *
* RUN DATE 27JUL10 TIME 16:35:14 *
*
*****
*
* U.S. ARMY CORPS OF ENGINEERS *
* HYDROLOGIC ENGINEERING CENTER *
* 609 SECOND STREET *
* DAVIS, CALIFORNIA 95616 *
* (916) 756-1104 *
*
*****

```

743

```

*****
*
* ..... *
* : *
* : EFFECT OF SPATIAL AND TEMPORAL VARIABILITY : *
* : OF ANTECEDENT MOISTURE CONTENT ON : *
* : MODEL-GENERATED RUNOFF : *
* : FROM AN ARID WATERSHED : *
* : *
* : ..... *
* : RETURN PERIOD__ 100-YEAR : *
* : DISTRIBUTION__ 6-HOUR SDN 5 : *
* : FILENAME__ test2.3.h1 : *
* : DATE__ 07/27/10 : *
* : MODELED BY__ WJM : *
* : ..... *
*****
* : *
* : 1. Total watershed area is 88 sq. mi. : *

```

```

* : 2. DARF is 0.62 for area          : *
* : 3. 500 Year Precip. Value is 3.02 in. : *
* : 4. 500 Year DARF value 0.62       : *
* : 5. 100 Year DARF value 0.44       : *
* : 6. 50 Year DARF value 0.38        : *
* : 7. 25 Year DARF value 0.32        : *
* : 8. 10 Year DARF Value 0.26        : *
* : 9. 2 Year DARF Value 0.15         : *
* :10. USBR Lag time                  : *
* : .....: *
*****

```

```

32 IO  OUTPUT CONTROL VARIABLES
      IPRNT    5 PRINT CONTROL
      IPLOT    0 PLOT CONTROL
      QSCAL    0. HYDROGRAPH PLOT SCALE

```

744

```

IT  HYDROGRAPH TIME DATA
    NMIN      5 MINUTES IN COMPUTATION INTERVAL
    IDATE     1 00 0 STARTING DATE
    ITIME     0000 STARTING TIME
    NQ        200 NUMBER OF HYDROGRAPH ORDINATES
    NDDATE    1 0 ENDING DATE
    NDTIME    1635 ENDING TIME
    ICENT     19 CENTURY MARK

```

```

COMPUTATION INTERVAL .08 HOURS
TOTAL TIME BASE 16.58 HOURS

```

ENGLISH UNITS

```

DRAINAGE AREA    SQUARE MILES
PRECIPITATION DEPTH  INCHES
LENGTH, ELEVATION  FEET
FLOW              CUBIC FEET PER SECOND
STORAGE VOLUME    ACRE-FEET
SURFACE AREA      ACRES

```

TEMPERATURE DEGREES FAHRENHEIT

JP MULTI-PLAN OPTION
NPLAN 1 NUMBER OF PLANS

JR MULTI-RATIO OPTION
RATIOS OF PRECIPITATION
.62

* *

126 KK * COut *

* *

127 KO OUTPUT CONTROL VARIABLES
IPRNT 2 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE

128 HC HYDROGRAPH COMBINATION
ICOMP 4 NUMBER OF HYDROGRAPHS TO COMBINE

**

HYDROGRAPH AT STATION COut
SUM OF 4 HYDROGRAPHS
PLAN 1, RATIO = .62

747

1	0230	31	9312.	*	1	0640	81	13569.	*	1	1050	131	34.	*	1	1500	181	0.
1	0235	32	9366.	*	1	0645	82	12686.	*	1	1055	132	30.	*	1	1505	182	0.
1	0240	33	9410.	*	1	0650	83	11817.	*	1	1100	133	26.	*	1	1510	183	0.
1	0245	34	9456.	*	1	0655	84	10977.	*	1	1105	134	22.	*	1	1515	184	0.
1	0250	35	9508.	*	1	0700	85	10172.	*	1	1110	135	19.	*	1	1520	185	0.
1	0255	36	9573.	*	1	0705	86	9410.	*	1	1115	136	17.	*	1	1525	186	0.
1	0300	37	9658.	*	1	0710	87	8693.	*	1	1120	137	15.	*	1	1530	187	0.
1	0305	38	9772.	*	1	0715	88	8022.	*	1	1125	138	13.	*	1	1535	188	0.
1	0310	39	9929.	*	1	0720	89	7396.	*	1	1130	139	11.	*	1	1540	189	0.
1	0315	40	10144.	*	1	0725	90	6809.	*	1	1135	140	9.	*	1	1545	190	0.
1	0320	41	10424.	*	1	0730	91	6259.	*	1	1140	141	8.	*	1	1550	191	0.
1	0325	42	10801.	*	1	0735	92	5740.	*	1	1145	142	7.	*	1	1555	192	0.
1	0330	43	11322.	*	1	0740	93	5248.	*	1	1150	143	6.	*	1	1600	193	0.
1	0335	44	11966.	*	1	0745	94	4780.	*	1	1155	144	5.	*	1	1605	194	0.
1	0340	45	12713.	*	1	0750	95	4336.	*	1	1200	145	4.	*	1	1610	195	0.
1	0345	46	13555.	*	1	0755	96	3914.	*	1	1205	146	3.	*	1	1615	196	0.
1	0350	47	14467.	*	1	0800	97	3517.	*	1	1210	147	2.	*	1	1620	197	0.
1	0355	48	15377.	*	1	0805	98	3145.	*	1	1215	148	2.	*	1	1625	198	0.
1	0400	49	16272.	*	1	0810	99	2801.	*	1	1220	149	2.	*	1	1630	199	0.
1	0405	50	17153.	*	1	0815	100	2485.	*	1	1225	150	1.	*	1	1635	200	0.

**

+ (CFS)	PEAK FLOW (HR)	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	16.58-HR
+ 23312.	5.08	14537.	5794.	5794.	5794.
	(CFS)				
	(INCHES)	1.645	1.812	1.812	1.812
	(AC-FT)	7209.	7941.	7941.	7941.

CUMULATIVE AREA = 82.15 SQ MI

PEAK FLOW AND STAGE (END-OF-PERIOD) SUMMARY FOR MULTIPLE PLAN-RATIO ECONOMIC COMPUTATIONS
 FLOWS IN CUBIC FEET PER SECOND, AREA IN SQUARE MILES
 TIME TO PEAK IN HOURS

RATIOS APPLIED TO PRECIPITATION

OPERATION STATION AREA PLAN RATIO 1
 .62

HYDROGRAPH AT

+ WSage 7.86 1 FLOW 3799.
 TIME 3.92

ROUTED TO

+ RWsage 7.86 1 FLOW 3348.
 TIME 5.00

HYDROGRAPH AT

+ RFan 12.56 1 FLOW 4211.
 TIME 4.58

HYDROGRAPH AT

+ NWest 12.27 1 FLOW 5610.
 TIME 4.00

3 COMBINED AT

+ CRfan 32.69 1 FLOW 10357.
 TIME 4.33

ROUTED TO

+ RCRfan 32.69 1 FLOW 10199.
 TIME 5.50

HYDROGRAPH AT

+ WCent 9.40 1 FLOW 5160.
 TIME 3.83

748

ROUTED TO

+ RCWCent 9.40 1 FLOW 4706.
TIME 4.25

HYDROGRAPH AT

+ Fplain 10.61 1 FLOW 4103.
TIME 4.25

3 COMBINED AT

+ CFplain 52.71 1 FLOW 15098.
TIME 5.42

ROUTED TO

+ RCFplain 52.71 1 FLOW 14958.
TIME 5.75

HYDROGRAPH AT

+ SCen 7.56 1 FLOW 3541.
TIME 4.00

HYDROGRAPH AT

+ HVal 11.14 1 FLOW 4463.
TIME 4.25

ROUTED TO

+ RHval 11.14 1 FLOW 4220.
TIME 5.00

HYDROGRAPH AT

+ SOct 10.75 1 FLOW 4154.
TIME 4.25

4 COMBINED AT

+ COut 82.15 1 FLOW 23312.
TIME 5.08

HYDROGRAPH AT

+ SEast 3.71 1 FLOW 2049.
TIME 3.83

HYDROGRAPH AT

+ SWest 2.16 1 FLOW 1502.
TIME 3.67

3 COMBINED AT

+ CTotal 88.02 1 FLOW 24905.
TIME 5.00

*** NORMAL END OF HEC-1 ***

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