

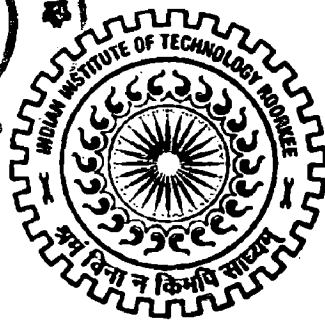
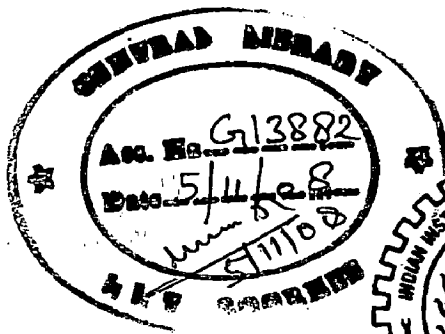
PLANNING OF A SMALL RUNOFF RIVER HYDROPOWER SCHEME IN KARNATAKA

A DISSERTATION

*Submitted in partial fulfilment of the
requirements for the award of the degree*
of
MASTER OF TECHNOLOGY
in
HYDROLOGY

By

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JUNE, 2008**

CANDIDATE'S DECLARATION

I hereby certify that the work which is being presented in this dissertation titled **PLANNING OF A SMALL RUNOFF RIVER HYDROPOWER SCHEME IN KARNATAKA** in the partial fulfillment for the award of the Degree of Master of Technology in Hydrology, submitted in the Department of Hydrology of the Indian Institute of Technology, Roorkee, is an authentic record of my work done during the period from July, 2007 to June, 2008 under the guidance of Dr. D. K. Srivastava, Professor, Department of Hydrology, Indian Institute of Technology Roorkee.

The matter embodied in this dissertation has not been submitted by me for award of any other degree.


Roorkee:

Date: 30th June 2008.



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This is to certify that the above statement made by the candidate is correct to the best of my knowledge.


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June,2008

Roorkee



VIVEK.S.KHAIRE

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LIST OF NOTATIONS AND ABBREVIATIONS

Acc.	Accumulated
Approx.	Approximately
cfs	Cubic feet per second
cm	Centimeter
cumec	Meter cube per second
Dr.	Doctor
e.g.	Example
<i>et al.</i>	And others
etc.	Et cetra
Fig.	Figure
hrs	Hours
Ha	Hector
i.e.	That is
km	Kilometer
kW	Kilo-watt
kWh	Kilowatt hour
Ltd	Limited
m ³	Cubic meter
m ³ /s	Cubic meter per second
min	Minutes
mm	Millimeter
MW	Megawatt
MWh	Megawatt hour
No.	Number
Rs	Rupees
SHPP	Small hydropower plant
Sr.	Serial
s	Second
Sq.km	Square kilometer

ABSTRACT

PLANNING OF A SMALL RUNOFF RIVER HYDROPOWER SCHEME IN KARNATAKA

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Hydropower is currently the world's largest renewable source of electricity, accounting for 6% of worldwide energy supply or about 15% of the world's electricity. The main objective of the study is to know the maximum hydropower energy which can be generated from the given daily flow

In present research work the point rainfall data of study area (KADMANE Catchment) was available and rainfall runoff data of nearby site. Using this data estimated the average rainfall and runoff for the study area. Now this runoff data is used to determine the 90% dependable year with the help of rank analysis method. After determining the 90% dependable year drawn a flow duration curve for getting the daily energy potential these gives us the annual energy production capacity of hydropower plant at different capacity. Then using the optimization technique obtained the optimal installed capacity of hydropower plant determined and it is 14.46 MW(from marginal curve), 7.95 MW(from benefit cost curve)

From the analysis it is concluded that the project is financially viable.

CHAPTER 1

INTRODUCTION

1.1 GENERAL

Hydropower is currently the world's largest renewable source of electricity, accounting for 6% of worldwide energy supply or about 15% of the world's electricity. In the recent times the non-renewable and exhaustible sources of energy are getting depleted at a very fast rate, which has focused attention to the non-exhaustible and renewable sources of energy. Hydropower is one of the most common renewable sources abundantly available in the hilly region. However, large hydro power plants are not being taken up for execution in sufficient number as these involve huge amount of funds and also the planning and construction period is very high. Therefore, with the increasing demand for power, the activities on small hydropower projects have accelerated in recent times. The small hydropower schemes are the appropriate solution to power demand as these require small capital investment and can be completed in a very short period of time.

Small Hydro-Power Plants (SHPPs) have found special importance due to their relatively low administrative and executive costs, and a short construction time compared to large power plants. These SHPPs are in the “run-off river” category because their generated capacity is based on the deviated water flow of river run-off and consists of a diversion dam, conveyance of water system, head pond, forebay, penstock, power house, and tailrace structure of the body of the SHPP as well as other electrical and mechanical equipment (see [Fig.1.1](#)) The deviated flow of a river reaches the forebay after running in a path to the diverted point, and then enters into the SHPP structure via penstock pipes. Daily regulation of the water volume in the head pond is used to get maximum power

from the SHPP during peak hours. The amount of energy generated during different daily hours and/or different seasons of the year are the most important issues worthy of study in the run-off river SHPP studies. In other words, calculating the optimal installation capacity (optimal designed flow) is one of the most important factors in planning SHPPs.

The main objective of the study is to know the maximum hydropower energy which can be generated from the given daily, 10-daily or monthly flows.

The approach to the study is in the sequence of

- Study of project as run-off the river scheme without pondage.
- Estimation of average areal rainfall over a basin.
- Development of rainfall runoff relationship and estimation of runoff.
- Estimation of energy potential by drawing flow duration curve.
- Sizing of power plant capacity.
- Economic performance evaluations

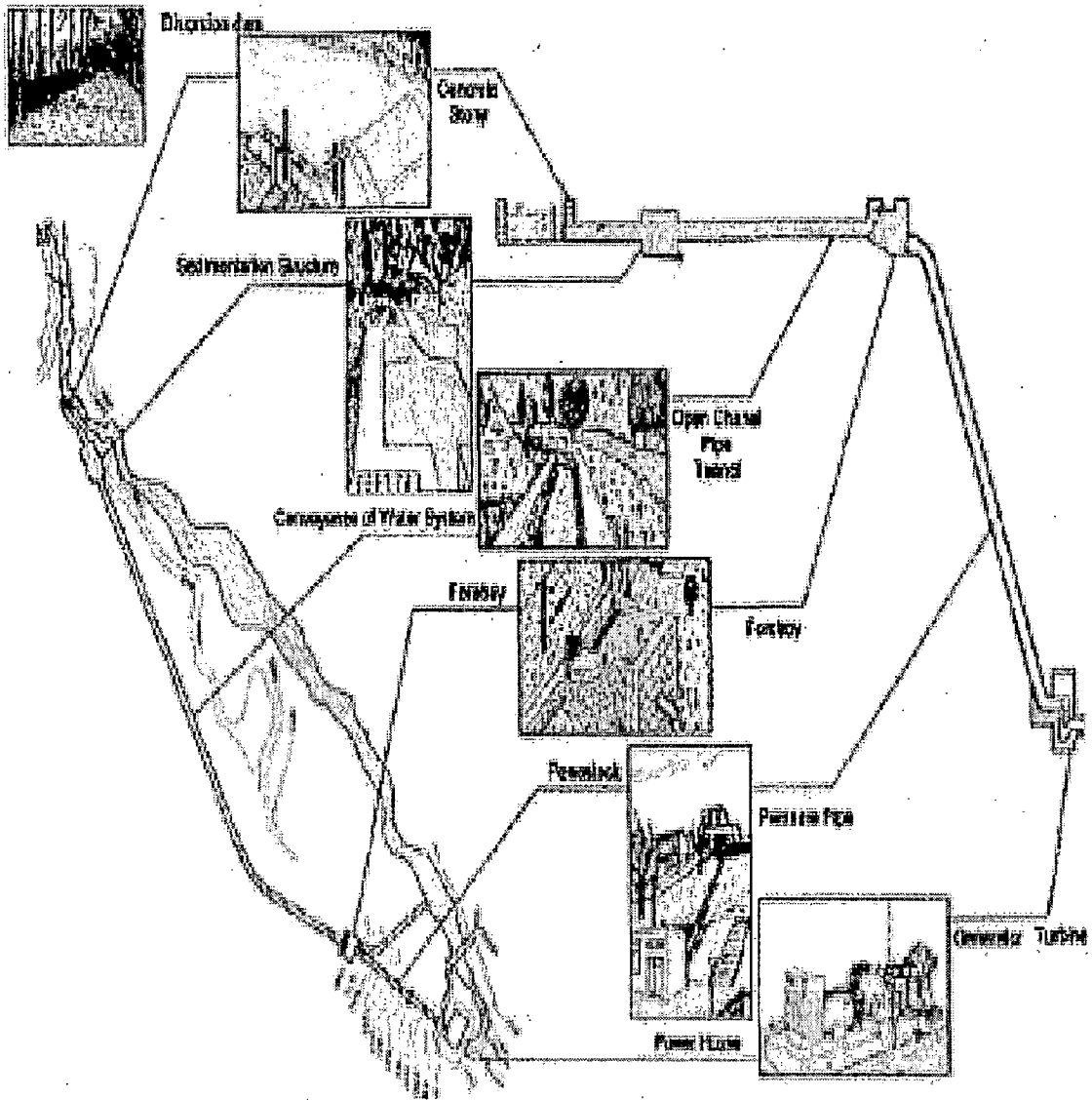


Fig.1.1 Schematic diagram of typical small hydropower plant

1.2 SCOPE

There are many reasons for the great interest in small hydro power. The potency of the arguments is relative to the type and scale of the benefits. The most important conditions to be considered by the investor / producer are stable incomes and a relatively high rate of return. These conditions are fulfilled by adequate support mechanisms . From the environmental point of view, reducing CO₂ is of great importance as well as helping preserve catchment areas. Very often, abandoned dams are restored and some micro retention objects are renewed, which improves the soil moisture conditions in the adjacent areas. SHP growth can be a valuable part of the so-called 'region sustainable. The main aim of this policy is to ensure supply of energy while protecting the environment and maintaining energy quality parameters at prices acceptable to the general public. SHP projects should not have to cover the overall cost of new dam construction and hydrologic equipment, as such financial burdens could cancel the economic efficiency of the entire project. Extra benefits' from SHP development can be achieved as a result of a synergy of efforts on the local, national . The adequate financial streams should be a part of this.

1.3 ENERGY SCENARIO IN INDIA:

Over the years the electricity supply in India has made significant progress. The installed capacity of the electricity supply undertakings (utilization) in the country over 50 years is increased from 1700 MW in 1950 to 112058.42 MW in March 2004 and electrification of more than 500,000 villages is impressive in absolute terms shown in Figure 1.2. Efforts

have been made to supply electricity to larger sections of population by way of rural electrification programmes.

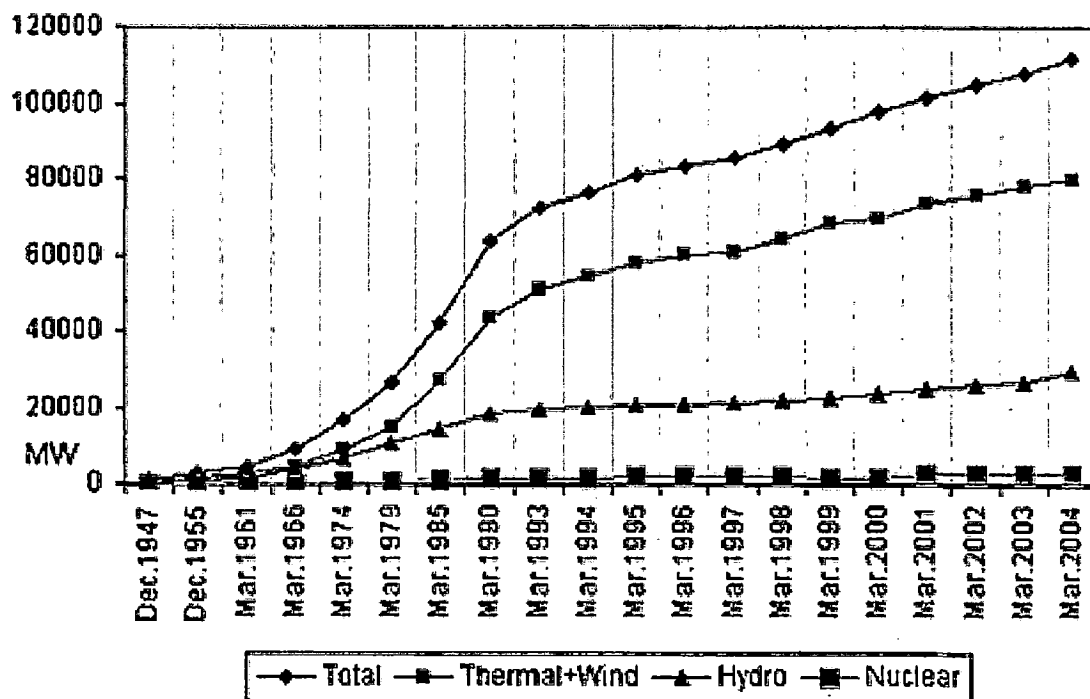


Figure 1.2 : Growth of Electric Power Generation

The economy of India is expected to grow annually by 8 to 10 percent. Together with the improving living standard, results in exponential growth of demand for electricity. The currently available capacity of nearly 120 GW is not adequate to meet the present demand. The Indian government has therefore initiated the program 'Power for all on demand by 2012'. The primary goal of the program is the addition of an extra 100 GW of capacity by 2012 .

1.4 HISTORY AND DEVELOPMENT OF SMALL HYDROPOWER IN INDIA

Indian history in small hydro developments is a century old, first hydro project of 130 kW commissioned in the hills of Darjeeling in 1897 followed by Sivasamudram project of 4.5 MW in Mysore district of Karnataka. Estimated technical potential of small hydropower (Up to 25 MW) in India is about 15,000 MW out of which about 1509.0 MW has been achieved as on May 2003 . Small hydropower development is one of the thrust areas of power generation from renewable resources in the Ministry of Non-conventional Energy Sources. Runoff generated from melting of snow and glaciers of Himalayan region form a source of numerous streams. Due to steep slopes, all such streams have potential sites for hydropower generation. If this potential is fully utilized, it will help in generating power from environmentally friendly Run-of-River hydropower stations. Small hydropower potential can provide a solution for energy problems in remote and hilly areas where the extension of grid system is comparatively uneconomical. Block diagram of development of small hydropower is shown in fig. 1.3.

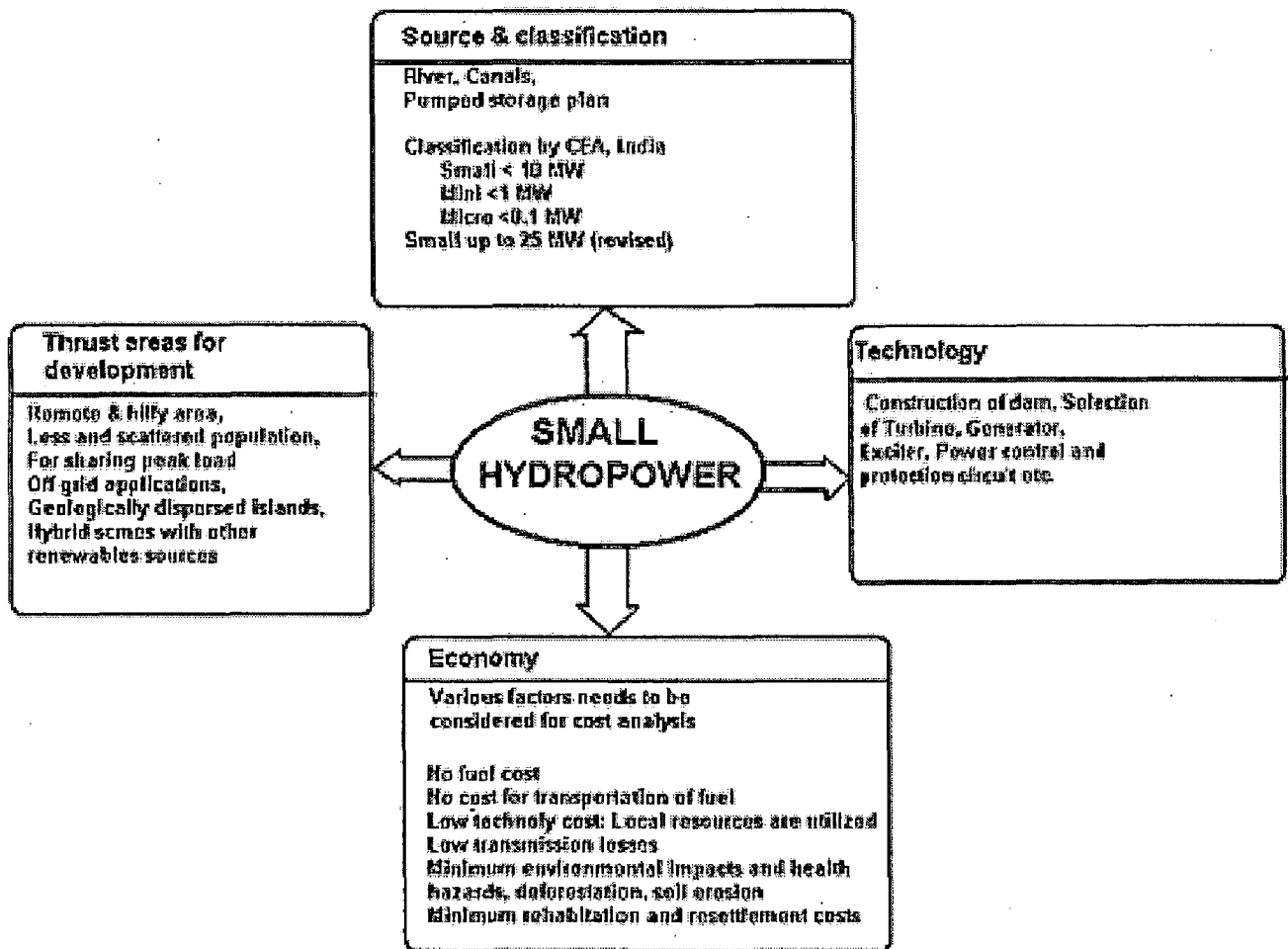


Figure 1.3 : Development of Small Hydropower

From the discussion it is apparent that in India, it is an opportune time that small hydropower should get a strategic thrust, as environment driven awareness has rediscovered ‘ small hydropower’ as a principle renewable sources for sustainable development. Ministry of Non conventional Energy Sources encourages the development of SHP by giving subsidy at various stages of project implementation Hydroelectric project needs to co-relate a large data from various sources; eg. Geology, population, and other project related information such as assured water availability, constructional details, hydropower power capacity, and financial aspects. With the availability of multi-sensor satellite data at very high spatial, spectral and temporal

resolutions, it is now possible to prepare up-to-date and accurate land use/ land cover map and to extract latest information in less time, at lower cost and with better accuracy. The information from satellite data interpretation and other descriptive data can be merged into GIS, thus generating a unique database for hydropower project to accelerate the development.

1.5 ADVANTAGES OF SMALL HYDROPOWER

1. Efficient energy source

It only takes a small amount of flow (as little as two gallons per minute) or a drop as low as two feet to generate electricity with micro hydro. Electricity can be delivered as far as a mile away to the location where it is being used.

2. Reliable electricity source

Hydro produces a continuous supply of electrical energy in comparison to other small-scale renewable technologies. The peak energy season is during the winter months when large quantities of electricity are required.

3. No reservoir required

Microhydro is considered to function as a 'run-of-river' system, meaning that the water passing through the generator is directed back into the stream with relatively little impact on the surrounding ecology.

4. Cost effective energy solution

Building a small-scale hydro-power system can cost from \$1,000 - \$20,000, depending on site electricity requirements and location. Maintenance fees are relatively small in comparison to other technologies.

5. Power for developing countries

Because of the low-cost versatility and longevity of micro hydro, developing countries can manufacture and implement the technology to help supply much needed electricity to small communities and villages.

6. Integrate with the local power grid

If your site produces a large amount of excess energy, some power companies will buy back your electricity overflow. You also have the ability to supplement your level of micro power with intake from the power grid.

1.6 DISADVANTAGES OF SMALL HYDROPOWER

1. Suitable site characteristics required

In order to take full advantage of the electrical potential of small streams, a suitable site is needed. Factors to consider are: distance from the power source to the location where energy is required, stream size (including flow rate, output and drop), and a balance of system components — inverter, batteries, controller, transmission line and pipelines.

2. Energy expansion not possible

The size and flow of small streams may restrict future site expansion as the power demand increases.

3. Low-power in the summer months

In many locations stream size will fluctuate seasonally. During the summer months there will likely be less flow and therefore less power output. Advanced planning and research will be needed to ensure adequate energy requirements are met.

4. Environmental impact

The ecological impact of small-scale hydro is minimal; however the low-level

environmental effects must be taken into consideration before construction begins. Stream water will be diverted away from a portion of the stream, and proper caution must be exercised to ensure there will be no damaging impact on the local ecology or civil infrastructure.

1.7 TECHNICAL BACKGROUND

1.7.1 Types of Hydropower Plants

There are three types of hydropower facilities: impoundment, diversion, and pumped storage. Some hydropower plants use dams and some do not. The images below show both types of hydropower plants.

Impoundment:

The most common type of hydroelectric power plant is an impoundment (shown in plate no. 1.1) facility. An impoundment facility, typically a large hydropower system, uses a dam to store river water in a reservoir. Water released from the reservoir flows through a turbine, spinning it, which in turn activates a generator to produce electricity. The water may be released either to meet changing electricity needs or to maintain a constant reservoir level.



Plate 1.1 Impoundment type of hydropower plant

Diversion:

A diversion, sometimes called run-of-river, facility channels a portion of a river through a canal or penstock. It may not require the use of a dam.

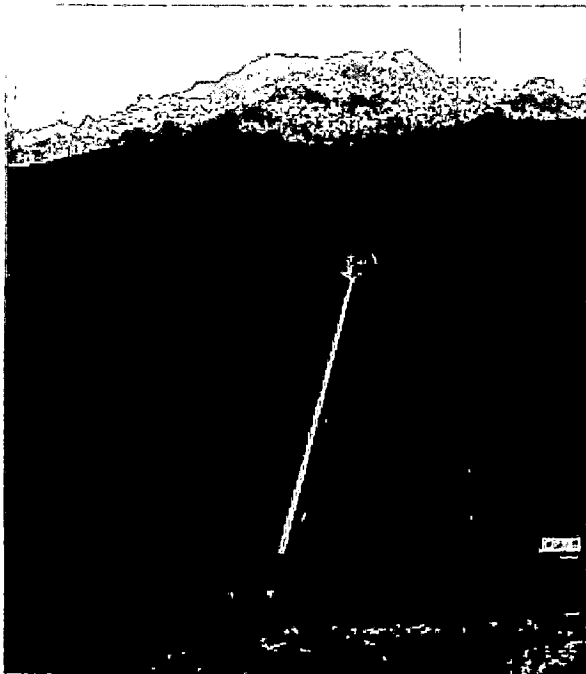


Plate 1.2 Diversion type of hydropower plant

Pumped Storage:

When the demand for electricity is low, a pumped storage facility stores energy by pumping water from a lower reservoir to an upper reservoir. During periods of high electrical demand, the water is released back to the lower reservoir to generate electricity.



Plate 1.3 Pumped storage type of hydropower plant

1.7.2 Size of Hydropower Plants

Facilities range in size from large power plants that supply many consumers with electricity to small and micro plants that individuals operate for their own energy needs or to sell power to utilities.

Large hydropower

Although definitions vary, we define large hydropower as facilities that have a capacity of more than 50 MW.

Medium

Hydropower Although definitions vary, we define medium hydropower as facilities that have a capacity of 10 MW to 50 MW.

Small hydropower

Although definitions vary, we define small hydropower as facilities that have a capacity of below 10 MW.

1.7.3 Parts Of A Hydroelectric Plant

Most conventional hydroelectric plants include four major components

Dam

Raises the water level of the river to create falling water. Also controls the flow of water. The reservoir that is formed is, in effect, stored energy.

Turbine

The force of falling water pushing against the turbine's blades causes the turbine to spin. A water turbine is much like a windmill, except the energy is provided by falling water instead of wind. The turbine converts the kinetic energy of falling water into mechanical energy.

Generator

Connected to the turbine by shafts and possibly gears so when the turbine spins it causes the generator to spin also converts the mechanical energy from the turbine

into electric energy. Generators in hydropower plants work just like the generators in other types of power plants. Transmission lines conduct electricity from the hydropower plant to homes and business.

1.7.4 Turbine Technology

Many types of turbine have been developed over the centuries. The water wheel (in one of its forms) is the ancestor of the modern turbine and is still used today to produce electricity.

Turbines can be split into four main groupings (although they do of course overlap and experts may disagree on where one group starts and ends).

These are

1. High head - above 100 m

Turbine types are - Pelton, Turgo, High head Francis.

2. Medium Head - 20m to 100m

Turbine types are - Francis, Cross Flow.

3. Low Head - 5m to 20m

Turbine types are - Cross Flow, Propeller, Kaplan.

4. Ultra Low Head - below 5m

Turbine types are - Propeller, Kaplan, Water wheel

The most common types of turbine are listed although variations on each type are produced.

All types except the simple propeller turbine can be fitted with mechanisms to enable the turbines to work at varying water flows without too great a loss of efficiency.

Turbines are usually tailor made for a particular site and it is down to the skill of the engineer to choose the most effective machine for a site - taking into consideration cost, variations in head, variations in flow, water quality, reliability.

CHAPTER 2

CASE STUDY

2.1 PREAMBLE

Kadmane mini hyedal scheme-2 is proposed across an unnamed as *Balekallu* hole (since it originates from a mountain called *Balekallu*), a tributary to this downstream reaches' west flowing river . Yettina hole, which is also called Kemp hole and Gundia hole in its downstream reaches . Kemp hole is in turn a tributary to the river *Kumardhara* which joins the river *Nethravati* which joins the river *Nethravati* near *uppingadi* .this stream originates from the high peaks (el+1279m) of a mountain named as *Balekallu* about 4.5 km north-west *Kadmane* estate in *Sakaleshpura Taluk* of Hassan district, in Karnataka state the flows for about 15 km almost south-south west before joining Kemp hole. The stream has very steep slope in its entire reach with series of rapids and falls. The stream drops by about 140m in a stretch of about 140m in stretch of about 3.00km near its confluence with *Kemphole* near Bagalore-Mangalore national highway no.48. the stream has good power potential in stretch.

2.2 LOCATION

The scheme comprises of a diversion weir on the stream, *Balekallu* hole. The diversion weir is proposed to be constructed about 28.50 km from *Sakaleshpura* in Hassan district. The national highway 48 runs close to weir site, at distance of about 3 km away. The nearest village is *Maranhalli*, which is on the national highway no.48 about 14.50 km from the proposed power house. Longitude and latitude of the weir site are $75^{\circ} 38' 58''$ and $12^{\circ} 51' 39''$.

2.3 HYDROLOGY

2.3.1 Catchment

The catchment area up to the proposed weir is 43.92 sq km (given in Fig. No. 2.1). The terrain in general, is steeply sloping, made up of gravelly soil with rocky outcrops and generally covered with dense forest or coffee and tea plantations. The overburden mantle is thin and gravelly. The map showing catchment boundary is enclosed as annexure

2.3.2 Rainfall

The catchment receives the heavy rainfall during monsoon. The monsoon period is usually from second half of May to first half of October. Occasional rains are experienced during April and November. The annual rainfall varies from 5230 mm to 8324 mm. The average annual rainfall is 6649.00 mm.

The daily rainfall data have been collected from the following rain gauge stations for the period ranging from 1988 to 2003. The five rain gauge stations are 1) KDM Division 2) MG Division 3) MH Division 4) KT Division) VG Division. These rain gauges are spread over the estate area, with 1 km to 2 km distance between each. for the purpose of further computations the average of these five stations is considered.

Maranhalli rain gauge station is just about 4 km from the river gauging point and is the nearest rain gauge station maintained by state government it is also verified and confirmed.

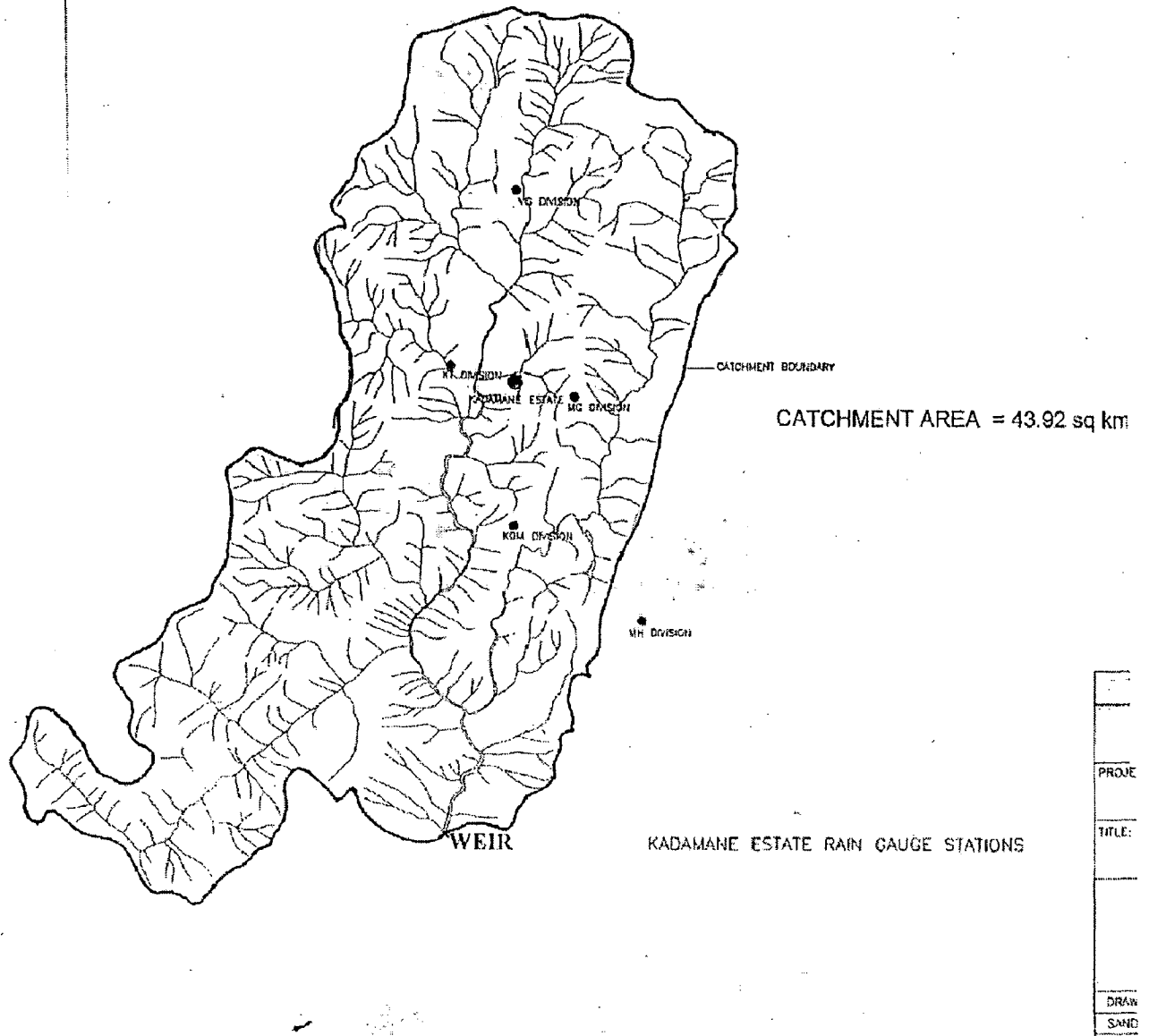


Fig. 2.1 Study area –Kadmane catchment

CHAPTER 3

MATERIALS AND METHODS

3.1 AVAILABLE DATA

We have the 16 years of point rainfall data of Kadmane catchment (for which we have to plan optimal installed capacity hydropower capacity) at different stations (given in appendix A)having area about 48.92 sq.km. There are five stations inside the catchment. Another catchment Maranhalli having data of runoff for 1976-1995 and rainfall for 1988-2003 out of this data the useful data is of only 8 years from 1988 to 1995 given in appendix A. Besides these we have some hydrologic information of kadmane catchment for this information refer chapter no. 2.

These are the following methods used in the project planning.

3.2 ESTIMATION OF AVERAGE RAINFALL

Different methods of estimation of rainfall

To convert the point rainfall values at various stations into an average value over a catchment's the following three methods are in use

1. Arithmetical mean method
2. Thiessen polygon method
3. Isohyetal method

Out of these methods we used the Thiessen polygon method in our project the detailed description of these method is below.

3.2.1 Thiessen Polygon Method

In this method the rainfall recorded at each station is given a weightage on the basis of an area closest to the station the procedure of determining the weightage area is as follows consider a catchment area as shown in fig 3.1 containing three reengages station there are three stations outside the catchment but in its neighbourhood the catchment's area is drawn to scale and position of the six stations marked on it . Stations 1 to 6 are joined to form a network of triangles. Perpendicular bisectors for each of the sides of the triangle are drawn. These bisectors form a polygon around each station .

the boundary of the catchment if it cuts the bisector is taken as the outer limit of the polygon . thus for a station 1 the bounding polygon is abcd for station 2 kade is taken as bounding polygon . These bounding polygons are called thissen polygon . the areas of these six thissen polygons are determined either with planimetre or by using an overlay grid. If P_1, P_2, \dots, P_6 are the rainfall magnitudes recorded by the stations 1,26 resp. areas of the thissen polygons , then the average rainfall over the catchment P is given by

$$P = \frac{P_1 A_1 + P_2 A_2 + \dots + P_6 A_6}{(A_1 + A_2 + \dots + A_6)}$$

The thissen polygon method of calculating the average precipitation over an area is superior than arithmetic-average method.

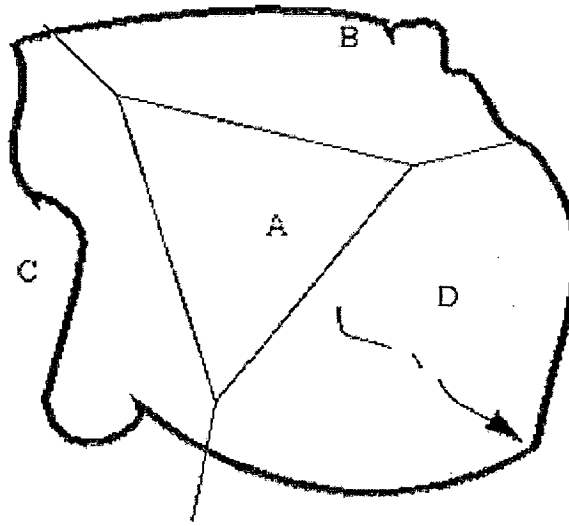


Fig 3.1 Thissen polygon

3.3 COMPUTATION OF RUNOFF

Due to the lack of some hydrologic information and availability of nearby site catchment data of rainfall and runoff we used regression analysis.

3.3.1 Regression analysis

After having established the fact to variables are correlated we may be interested in estimating or predicting the value of one of variables given the knowledge of other for example, if we know the annual rainfall on basin we may like to know the corresponding annual runoff from the basin. Regression analysis tries to find out the average relationship between the variables. It refers the method by which estimates are made of the values of one or other more variables. Correlation is merely a tool of ascertaining the degree of linear dependence or the degree of association between

the variables is the cause and other variable is the effect. In the regression analysis, however, one variable is taken as the dependent variable and the other the independent and the independent variables thus making it possible to cause and effect relationship

Single linear relation

Linear regression lines are fitted between the variables based on the observed if it is felt that the relation between the variable is linear. Let x be the independent variable and y be the dependent variables. We would like to obtain an expression to the dependent variable y as linear function of the independent variable x . we assume relationship between y and x as

$$y = a + bx$$

3.4 ENERGY POTENTIAL OF A SITE

Anonymous June (2008) The owner of a potential hydro site may ask the question 'how much power will my site produce?' The question should really be 'how much energy will my site produce?' since it is energy that we buy from or sell to the electricity supplier. Energy is a measure of the length of time we have used or produced a given amount of power. Thus a site on a river with a very variable flow may not have the potential to produce as much energy as a site on a river with a lower peak flow but a higher mean flow. The hydrologist can produce a 'flow duration curve' for a river by studying the recorded water flows (preferably the recorded flows for a number of years). This flow duration curve is a means of showing the probability in a graphical form of how many days in a year a particular flow will be exceeded.

The vertical axis of the flow duration curve shows the flow, the horizontal axis days (or % of time).

3.4 FLOW DURATION CURVE

What is it?

The flow duration curve is a plot that shows the percentage of time that flow in a stream is likely to equal or exceed some specified value of interest. For example, it can be used to show the percentage of time river flow can be expected to exceed a design flow of some specified value (e.g., 20 cfs), or to show the discharge of the stream that occurs or is exceeded some percent of the time (e.g., 80% of the time).

There are two methods of flow duration curve

- Method of ranking
- Method of class-interval

We used the method of ranking for our study the detail method is given below.

How is it calculated?

The basic time unit used in preparing a flow-duration curve will greatly affect its appearance. For most studies, mean daily discharges are used. These will give a steep curve. When the mean flow over a long period is used (such as mean monthly flow), the resulting curve will be flatter due to averaging of short-term peaks with intervening smaller flows during a month. Extreme values are averaged out more and more, as the time period gets larger (e.g., for a flow duration curve based on annual flows at a long-record station).

Step 1: Sort (rank) average daily discharges for period of record from the largest value to the smallest value, involving a total of n values.

Step 2: Assign each discharge value a rank (M), starting with 1 for the largest daily discharge value.

Step 3: Calculate exceedence probability (P) as follows:

$$P = 100 * [M / (n + 1)]$$

P = the probability that a given flow will be equaled or exceeded (% of time)

M = the ranked position on the listing (dimensionless)

n = the number of events for period of record (dimensionless)

Use of flow duration curve in hydropower

The flow duration curve is highly useful in the planning and design of water resources projects. In particular, for hydropower studies, the flow duration curve serves to determine the potential for firm power generation. In the case of run-of river plant, with no storage facilities, the firm power is usually computed on the basis of the flow available 90 to 97 percent of the time. The firm power is also known as primary power. Secondary power is the power generated at the plant utilizing water other than that used for the generation of firm power.

What does this particular information tell you about your stream?

A flow duration curve characterizes the ability of the basin to provide flows of various magnitudes. Information concerning the relative amount of time that flows past a site are likely to equal or exceed a specified value of interest is extremely useful for the

design of structures on a stream. For example, a structure can be designed to perform well within some range of flows, such as flows that occur between 20 and 80% of the time (or some other selected interval).

Flow duration curve is shown in fig 3.2 showing the firm energy, secondary energy and dump energy. the formulae are given below.

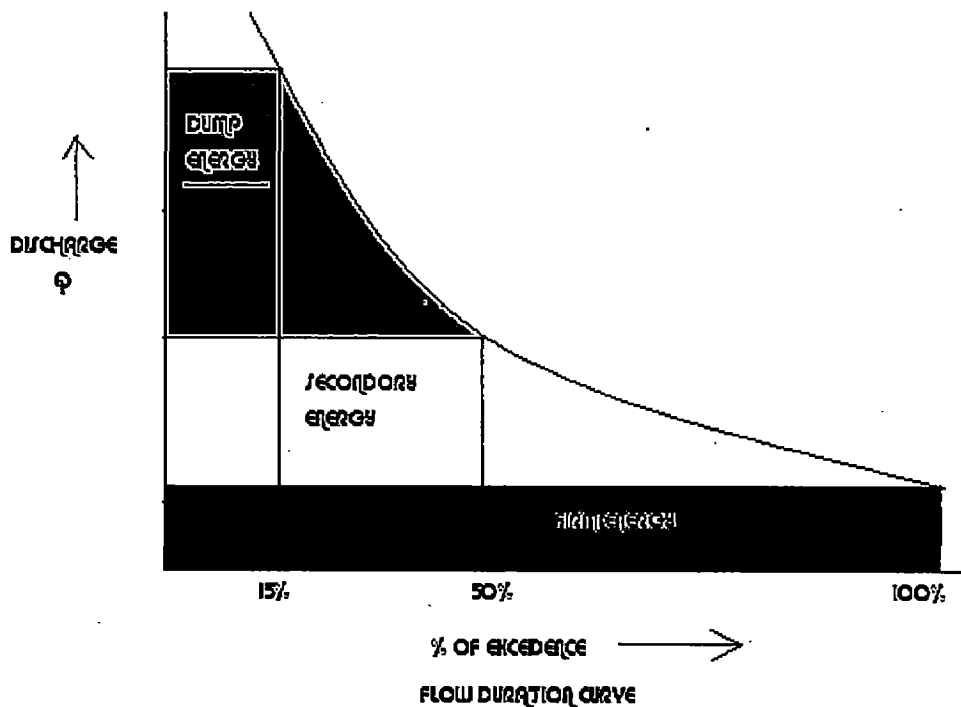
If the installed power plant is considered as 15% of exceedence flow then.

$$\text{Firm energy} = [9.8 \times Q_{100} \times H_a \times e \times \text{no.of.hrs}]$$

$$\text{Secondary energy} = \left\{ 9.8 \times (Q_{50} - Q_{100}) \times H_a \times \left[\frac{1 + 0.5}{2} \right] \times e \times \text{no.of.hrs} \right\}$$

$$\text{Dump energy} = \left\{ 9.8 \times (Q_{15} - Q_{50}) \times H_a \times \left[\frac{0.15 + 0.5}{2} \right] \times e \times \text{no.of.hrs} \right\}$$

$$\text{Total energy} = \text{Firm energy} + \text{Secondary energy} + \text{Dump energy}$$



Fig

3.2 Flow duration curve

3.5 ESTIMATION OF HYDROPOWER POTENTIAL

The amount of power generated over a time or energy, is expressed in kilowatt-hour (KWh). It can be computed as

$$P=9.817*Q_t*H_{at}**e$$

$$E_t=9.817*Q_t*H_{at}*h_t*e$$

where, E_t = energy in KWh

P = Power in KW

Q_t = outflow in m^3/sec ,

H_{at} = net head in m,

h_t = time in hour

and e = efficiency.

For hydropower project, the energy produced is proportional to the product of outflow and its associated head. So both outflow/release and are the decision variable for a given reservoir capacity in storage project where as head is constant in run-off-river scheme. Their optimum combination have to be found out to get a maximum power generation but subjected to some constraints as maximum reservoir and storage and turbine discharge etc.

Firm power is the maximum quantity of power that can be guaranteed to be delivered 100% of time according to some prescribed distribution. Following two methods are used to estimate the hydropower potential at a given site.

3.6 DETERMINATION OF THE OPTIMAL INSTALLATION CAPACITY

To determine the optimal installation capacity of SHPPs all technical, economic and reliability indices are considered in a trade-off relation. Using this approach, the amount of annual energy is determined by using categorized statistics of the flow duration curve in different months. Then, after specifying the income and costs of the plant, the economic indices of different alternatives are extracted. The reliability indices are then calculated and ultimately, through comparison of the technical, economic and reliability indices, a superior alternative can be selected, determining the optimal installation capacity. This method of calculating the technical, economic and reliability indices.

3.6.1 Graphical method of optimization

This method shows the curve between annual benefit vs. annual cost. It is used for deciding the optimal size of the hydropower plant. Draw a curve between annual cost and annual benefit as shown in fig 3.3. below. Then draw a line at 45° from the point of origin. Now draw the tangent to benefit-cost curve parallel to 45° line. The max difference between these two lines gives the max net benefit. This is the point of optimum installed capacity.

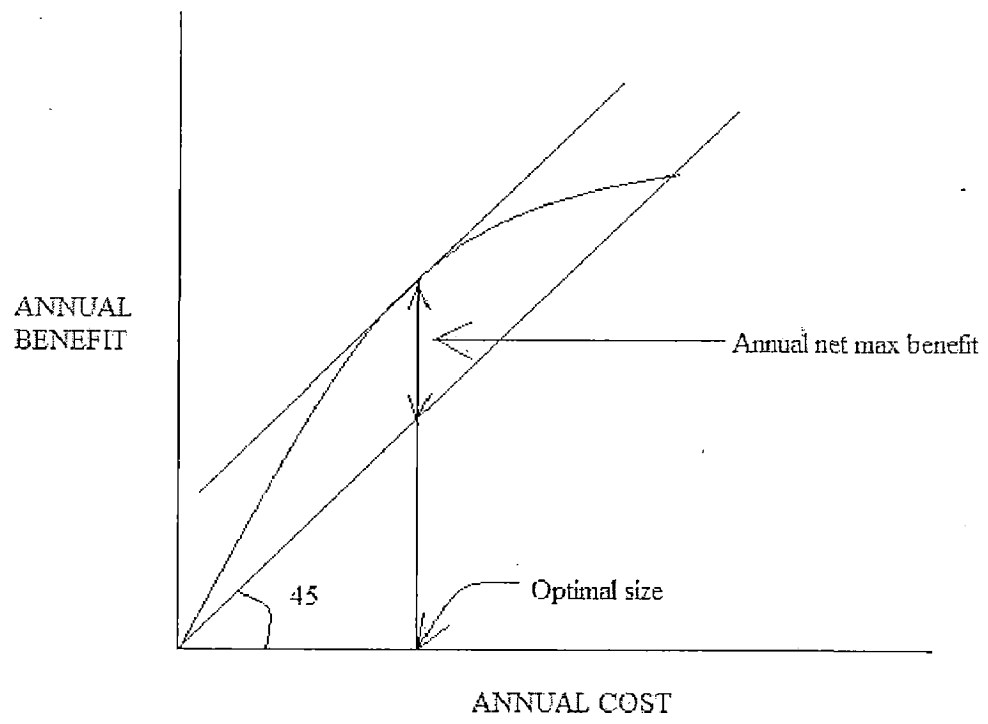


Fig 3.3 Benefit cost curve

3.7 ECONOMIC ANALYSIS:

The economic analysis of the project has been done assuming that the project will be run for at least **15** years after its commissioning. As the costs and benefits are non linear, so to compare the costs and benefit, a single value at zero time (2007) is required. There are different discounting techniques to reach at a single value. Here two methods have been applied as under, i.e., annual cost method and present worth

3.7.1 Methods of Economic Evaluation

- (1.) Benefit cost ratio method
- (2.) Present worth of costs and benefits method.
- (3.) Internal rate of return method
- (4.) Annual cost method

Each method has its own merits and demerits. The applicability of the method depends on the available and on the choice of the individual. However, in case of water resource projects, benefits-cost ratio method has wide acceptability and the same has been applied in this study

3.7.1.1 Benefit Cost Ratio method

Annual cost:

Annual cost of any project consists of annual interest plus annual depreciation plus annual O &M cost.

$$A_c = \text{annual interest} + \text{annual depreciation} + \text{annual O \&M cost.}$$

$$A_c = i_1 * K + \left[\frac{i_2}{(1+i_2)^n - 1} \times K \right] + i_3 * K$$

i= interest %

K= capital cost

1- annual interest 2- depreciation 3- O & M

Annual benefit:

Anticipated gross annual revenue

Benefit Cost Ratio:

B-C ratio = Annual benefit / Annual cost

3.7.1.2 Present worth of costs and benefits method

In this method, present worth of total costs and of total benefits is calculated at zero year 2007.

1. Present worth of construction cost

$$P_{wc} = \sum_{t=1}^n C_t (P/F, i\%, n) \quad \text{or} \quad C_t = F/(1+i)^n$$

2. Present worth of O&M

3. Present worth of Depreciation

Total cost (1+2+3)

Total benefits Pwb

$$P_{wb} = \sum_{t=1}^n B_t (P/F, i\%, n) \quad \text{or} \quad B_t = F/(1+i)^t$$

$$\text{B-C ratio} = P_{wb} / P_{wc}$$

3.7.1.3 Internal rate of return method:

In this method, we calculate rate of return with zero benefit.

$$P_{wb} = P_{wc}$$

By trial and error value of $i = \%$

3.7.1.4 Annual cost method:

In this method, uniform annual cost and annual benefits are computed and benefit cost ratio is calculated.

$A_c =$ annual interest+ annual depreciation+ annual O &M cost.

$$A_c = i_1 * K + \left[\frac{i_2}{(1+i_2)^n - 1} \times K \right] + i_3 * K$$

The B-C ratio of the project in both the methods should be more than unity and internal rate of return is also more than expected annual net return. Then and only then the project is financially viable and is recommended for implementation

3.9 FINANCIAL ANALYSIS

3.9.1 Cost of Power Generation.

(a) Interest rate: simple interest rate of 9 % has been taken.

(b) Depreciation charge: Average rate depreciation has been taken as 5 %.

(c) O & M charges: Flat rate of 1% has been adapted.

1. Working expense per year @ 2.6 % of the capital cost

2. Interest charges @ 9 % on the capital cost

Cost of generation per unit

3.9.2 Tariff or Sale Charge:

Normally the sale charges are fixed taking into account, a minimum return of 10% on the capital cost, which is worked out as under:

(i) The capital cost

(ii) Total capitalized cost

(Total capital cost + Interest during construction)

(iii) Annual capitalized cost (9% of capitalized cost)

(iv) Expected annual net return (10% of capital cost)

(v) Sale rate to ensure annual return

CHAPTER 4

RESULTS AND DISCUSSION

4.1 COMPUTATION OF AVERAGE RAINFALL

In this project, in order to determine the AAR from five different meteorological stations the Thiessen polygon method is applied. We have 16 years of point rainfall data. This data is converted into average rainfall data using Thiessen polygon method. Thiessen polygon pattern of Kadmane catchment is shown in fig 4.1

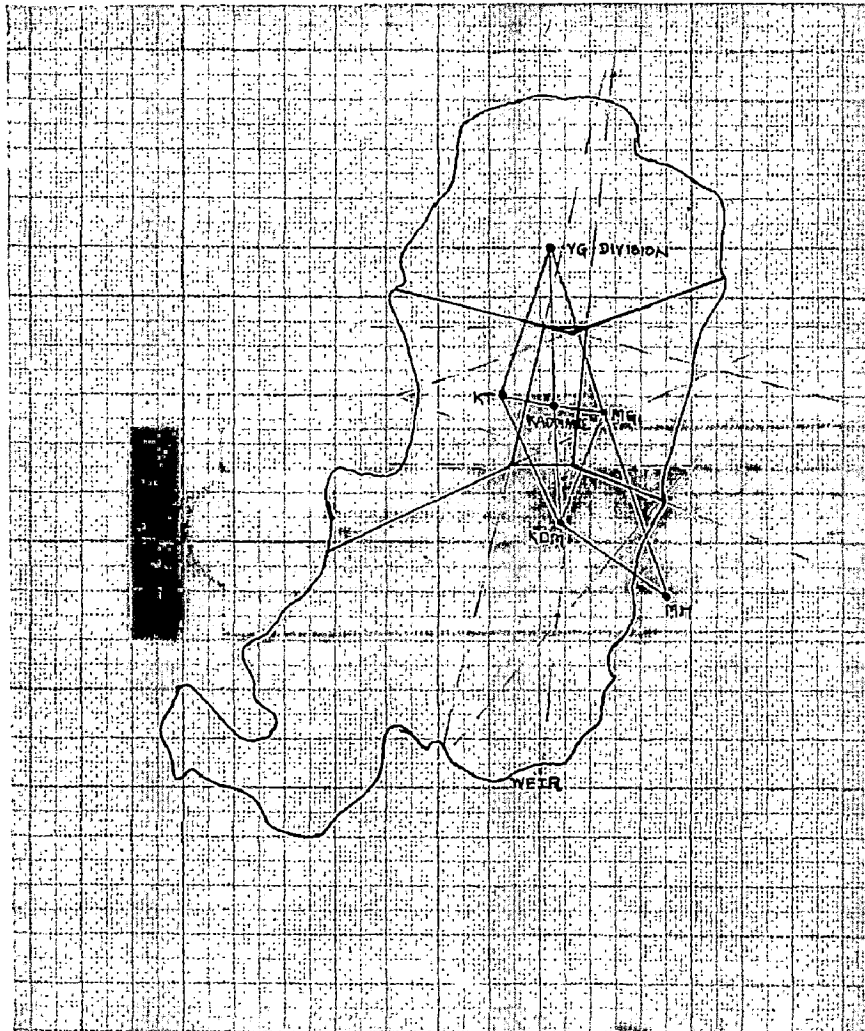


Fig.4.1 Thiessen Polygon Pattern Of Kadmane Catchment

The sample calculations are :

$$P = \frac{P_1 A_1 + P_2 A_2 + \dots + P_n A_n}{(A_1 + A_2 + \dots + A_n)}$$

P1=12.60 p2= 12 p3= 11 p4= 10 p5=11.52

A1= 39 A2= 10.43 A3= 7.57 A4= 20.27 A5=2.66

P-Precipitation

A-Area

$$P = \frac{((12.60 * 39) + (12 * 10.43) + (11 * 7.57) + (10 * 20.27) + (11.52 * 2.66))}{(39 + 10.43 + 7.57 + 20.47 + 2.66)}$$

P= 11.67488 mm

The detail calculation part is given in Appendix B

Some of the figures of rainfall given below.

The max annual rainfall = 8255.801 mm

The min annual rainfall = 5077.219mm

The average annual rainfall = 6582.022mm

The max daily rainfall = 327.9895 mm

The min daily rainfall = 0.0 mm

The average daily rainfall = 18.03294 mm

There is no rainfall from December to March and receives the heavy rainfall during June to September, for rest of months occasional rainfall occurred.

4.2 ESTIMATION OF RUNOFF

Runoff is estimated using the regression analysis. The nearby catchment Maranhalli rainfall-runoff data (about 7-8 years from 1988 to 1994-95) was available so we made simple linear relationship between these two parameters for particular months (from June to November) for the sample the simple linear relationship between rainfall and runoff of June month is given in Fig. 4.2 and remaining all given in appendix C and for rest of the months used the exponential trend. It is used for estimation of runoff for the Kadmane catchment. Kadmane catchment average rainfall data is already calculated so one parameter rainfall we know and calculated the other (runoff) using the linear relationship.. The acc. Rainfall and runoff values of june month are given in Table 4.1

Table 4.1 Estimation of accumulated rainfall and runoff

	1	2	3	4	col(5)=8.674699*col(4)
Date	Jun	Jun	Jun	Jun	Jun
	Rainfall	Acc rainfall	Runoff cumec	acc runoff(cumec)	acc runoff(mm)
1	0.00	0	0.14	0.14	1.21445786
2	0.00	0.00	0.02	0.16	1.38795184
3	0.00	0.00	0.02	0.18	1.56144582
4	0.00	0.00	0.02	0.2	1.7349398
5	0.00	0.00	0.02	0.22	1.90843378
6	0.00	0.00	0.02	0.24	2.08192776
7	8.35	8.35	0.02	0.26	2.25542174
8	8.55	16.90	0.03	0.29	2.51566271
9	4.37	21.27	0.04	0.33	2.86265067
10	18.29	39.56	0.04	0.37	3.20963863
11	10.74	50.30	0.05	0.42	3.64337358
12	3.98	54.28	0.06	0.48	4.16385552
13	6.36	60.64	0.09	0.57	4.94457843
14	20.28	80.92	0.11	0.68	5.89879532
15	19.89	100.81	0.11	0.79	6.85301221
16	12.73	113.54	0.11	0.9	7.8072291
17	5.97	119.51	0.12	1.02	8.84819298
18	10.74	130.25	0.14	1.16	10.06265084
19	0.00	130.25	0.14	1.3	11.2771087
20	0.00	130.25	0.14	1.44	12.49156656
21	0.00	130.25	0.17	1.61	13.96626539
22	7.95	138.20	0.22	1.83	15.87469917
23	19.89	158.09	0.22	2.05	17.78313295
24	40.17	198.26	0.22	2.27	19.69156673
25	29.03	227.29	0.2	2.47	21.42650653
26	11.93	239.22	0.16	2.63	22.81445837
27	0.80	240.02	0.15	2.78	24.11566322
28	0.80	240.82	0.14	2.92	25.33012108
29	6.16	246.98	0.14	3.06	26.54457894
30	0.00	246.98	0.13	3.19	27.67228981
1	21.08	268.06	0.06	3.25	28.19277175
2	42.16	310.22	0.08	3.33	28.88674767
3	0.00	310.22	0.08	3.41	29.58072359
4	11.53	321.75	0.07	3.48	30.18795252
5	0.00	321.75	0.14	3.62	31.40241038

6	2.78	324.53	0.28	3.9	33.8313261
7	21.08	345.61	0.31	4.21	36.52048279
8	12.73	358.34	0.97	5.18	44.93494082
9	67.61	425.95	1.67	6.85	59.42168815
10	22.27	448.22	1.51	8.36	72.52048364
11	30.62	478.84	1.47	9.83	85.27229117
12	52.90	531.74	1.83	11.66	101.1469903
13	107.38	639.12	1.95	13.61	118.0626534
14	21.08	660.20	1.67	15.28	132.5494007
15	14.32	674.52	1.55	16.83	145.9951842
16	29.83	704.35	1.38	18.21	157.9662688
17	15.51	719.86	1.29	19.5	169.1566305
18	38.18	758.04	1.25	20.75	180.0000043
19	17.10	775.14	1.17	21.92	190.1494021
20	0.80	775.94	1.22	23.14	200.7325349
21	10.74	786.68	1.29	24.43	211.9228966
22	68.41	855.09	1.29	25.72	223.1132583
23	18.69	873.78	1.35	27.07	234.8241019
24	2.39	876.17	1.44	28.51	247.3156685
25	1.19	877.36	1.49	30	260.24097
26	31.82	909.18	1.85	31.85	276.2891632
27	20.68	929.86	2.29	34.14	296.1542239
28	9.15	939.01	1.95	36.09	313.0698869
29	68.01	1007.02	1.69	37.78	327.7301282
30	89.88	1096.90	1.56	39.34	341.2626587
1	6.76	1103.66	0.1	39.44	342.1301286
2	29.83	1133.49	0.1	39.54	342.9975985
3	6.76	1140.25	0.1	39.64	343.8650684
4	5.57	1145.82	0.1	39.74	344.7325383
5	1.59	1147.41	0.09	39.83	345.5132612
6	3.18	1150.59	0.09	39.92	346.2939841
7	16.70	1167.29	0.09	40.01	347.074707
8	1.99	1169.28	0.1	40.11	347.9421769
9	1.99	1171.27	0.1	40.21	348.8096468
10	8.75	1180.02	0.1	40.31	349.6771167
11	14.32	1194.34	0.1	40.41	350.5445866
12	24.26	1218.60	0.1	40.51	351.4120565
13	36.99	1255.59	0.1	40.61	352.2795264
14	2.78	1258.37	0.1	40.71	353.1469963
15	6.76	1265.13	0.64	41.35	358.6988037
16	17.10	1282.23	1.54	42.89	372.0578401
17	36.59	1318.82	1.13	44.02	381.86025

18	139.20	1458.02	1.6	45.62	395.7397684
19	39.77	1497.79	1.76	47.38	411.0072386
20	56.87	1554.66	1.75	49.13	426.1879619
21	1.59	1556.25	1.67	50.8	440.6747092
22	19.09	1575.34	1.54	52.34	454.0337457
23	26.25	1601.59	1.54	53.88	467.3927821
24	12.33	1613.92	1.71	55.59	482.2265174
25	3.98	1617.90	2	57.59	499.5759154
26	35.79	1653.69	2	59.59	516.9253134
27	9.55	1663.24	2.41	62	537.831338
28	44.94	1708.18	3.09	65.09	564.6361579
29	31.02	1739.20	3.09	68.18	591.4409778
30	39.77	1778.97	3.09	71.27	618.2457977
1	0.00	1778.97	0.05	71.32	618.6795327
2	4.20	1783.17	0.07	71.39	619.2867616
3	0.00	1783.17	0.09	71.48	620.0674845
4	11.00	1794.17	0.25	71.73	622.2361593
5	38.00	1832.17	0.28	72.01	624.665075
6	21.00	1853.17	1.11	73.12	634.2939909
7	90.00	1943.17	2.47	75.59	655.7204974
8	87.20	2030.37	2.47	78.06	677.1470039
9	120.00	2150.37	3.55	81.61	707.9421854
10	74.00	2224.37	5.35	86.96	754.351825
11	300.50	2524.87	4.29	91.25	791.5662838
12	75.00	2599.87	2.3	93.55	811.5180915
13	51.00	2650.87	2.03	95.58	829.1277304
14	0.00	2650.87	1.75	97.33	844.3084537
15	0.00	2650.87	1.75	99.08	859.4891769
16	4.00	2654.87	1.75	100.83	874.6699002
29	35.00	4547.27	3.01	184.14	1597.359074
30	24.00	4571.27	2.85	186.99	1622.081966
1	0.00	4571.27	1.6	188.59	1635.961484
2	0.00	4571.27	1.6	190.19	1649.841003
3	0.00	4571.27	1.68	191.87	1664.414497
4	0.00	4571.27	1.9	193.77	1680.896425
5	13.40	4584.67	2.03	195.8	1698.506064
6	10.00	4594.67	2.1	197.9	1716.722932
7	0.40	4595.07	2.1	200	1734.9398
8	5.00	4600.07	2.12	202.12	1753.330162
9	5.20	4605.27	2.17	204.29	1772.154259
10	17.20	4622.47	2.22	206.51	1791.41209
11	20.60	4643.07	2.38	208.89	1812.057874

12	61.00	4704.07	2.44	211.33	1833.22414
13	35.00	4739.07	2.35	213.68	1853.609682
14	46.00	4785.07	2.19	215.87	1872.607273
15	65.40	4850.47	2.27	218.14	1892.29884
16	75.80	4926.27	2.56	220.7	1914.506069
17	90.60	5016.87	2.7	223.4	1937.927757
18	70.60	5087.47	2.6	226	1960.481974
19	15.20	5102.67	2.52	228.52	1982.342215
20	40.40	5143.07	2.27	230.79	2002.033782
21	7.20	5150.27	2.1	232.89	2020.25065
22	5.00	5155.27	2.02	234.91	2037.773542
23	0.00	5155.27	1.83	236.74	2053.648241
24	0.00	5155.27	1.8	238.54	2069.262699
25	3.00	5158.27	1.8	240.34	2084.877158
26	1.00	5159.27	1.8	242.14	2100.491616
27	12.00	5171.27	1.8	243.94	2116.106074
28	4.40	5175.67	1.8	245.74	2131.720532
29	12.20	5187.87	1.77	247.51	2147.074749
30	8.20	5196.07	1.8	249.31	2162.689208
1	0.00	5196.07	0.6	249.91	2167.894027
2	10.00	5206.07	0.61	250.52	2173.185593
3	22.40	5228.47	0.73	251.25	2179.518124
4	23.00	5251.47	0.95	252.2	2187.759088
5	82.20	5333.67	1.54	253.74	2201.118124
6	66.00	5399.67	2.04	255.78	2218.81451
7	35.60	5435.27	2.19	257.97	2237.812101
8	19.10	5454.37	2.43	260.4	2258.89162
9	78.80	5533.17	2.73	263.13	2282.573548
10	28.00	5561.17	3.3	266.43	2311.200055
11	59.80	5620.97	3.94	270.37	2345.378369
12	48.20	5669.17	4.04	274.41	2380.424153
13	70.20	5739.37	4.92	279.33	2423.103672
14	105.60	5844.97	5.24	284.57	2468.559094
15	94.00	5938.97	5.89	290.46	2519.653072
16	69.40	6008.37	4.89	295.35	2562.07235
17	60.80	6069.17	4.24	299.59	2598.853073
18	35.00	6104.17	3.33	302.92	2627.739821
19	31.00	6135.17	2.79	305.71	2651.942231
20	45.00	6180.17	2.81	308.52	2676.318135
21	10.20	6190.37	2.43	310.95	2697.397654
22	2.00	6192.37	2.6	313.55	2719.951871
23	8.00	6200.37	3.25	316.8	2748.144643

24	28.00	6228.37	3.83	320.63	2781.36874
25	40.60	6268.97	4.51	325.14	2820.491633
26	47.20	6316.17	6.36	331.5	2875.662719
27	60.60	6376.77	5.94	337.44	2927.190431
28	75.60	6452.37	8.62	346.06	3001.966336
29	120.70	6573.07	12.83	358.89	3113.262724
30	40.10	6613.17	13.01	371.9	3226.120558

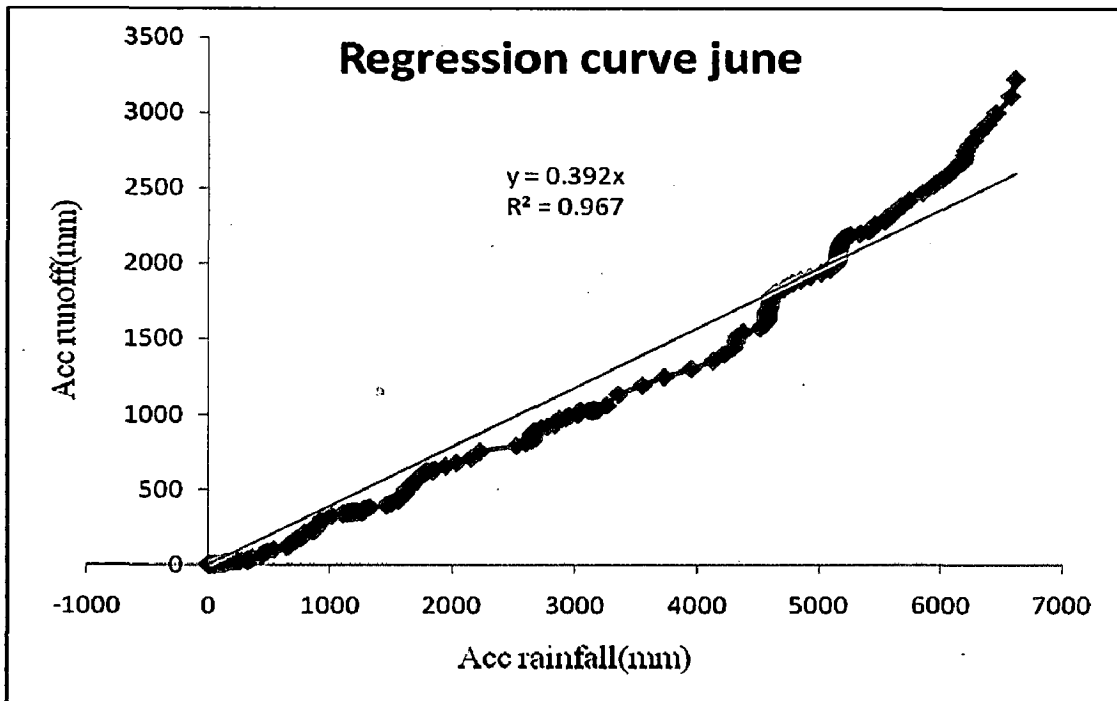


Fig 4.2 Regression curve showing trend of june

The sample calculation are given below

$$\text{Rainfall}(x) = 10$$

$$y=0.392x$$

$$\text{Runoff} = 0.392x$$

$$= 0.392*10$$

$$\text{Runoff} = 3.92 \text{ mm}$$

The other calculation part is given in appendix c

4.3 RANK ANALYSIS

After estimation of daily runoff for 16 years the total value of annual runoff is calculated and is arranged in ascending order to determine the most (90%) dependable year. 2002 is 88% dependable year and annual discharge is 4138.049 mm. details given in Table 4.2.

Table 4.2 Showing the dependable years.

year	Flow (cumec)	Flow asc order (cumec)	year	Rank	Probability %
1988	4851.409112	7006.643892	1997	1	5.88235294
1989	4250.509681	6791.033946	1998	2	11.7647059
1990	5476.157837	6341.19957	1994	3	17.6470588
1991	4935.721519	5868.293589	1992	4	23.5294118
1992	5868.293589	5476.157837	1990	5	29.4117647
1993	4149.427194	5396.400619	2000	6	35.2941176
1994	6341.19957	5255.547537	1995	7	41.1764706
1995	5255.547537	5053.976094	2001	8	47.0588235
1996	5011.791793	5011.791793	1996	9	52.9411765
1997	7006.643892	4972.955435	1999	10	58.8235294
1998	6791.033946	4935.721519	1991	11	64.7058824
1999	4972.955435	4851.409112	1988	12	70.5882353
2000	5396.400619	4250.509681	1989	13	76.4705882
2001	5053.976094	4149.427194	1993	14	82.3529412
2002	4138.04904	4138.049043	2002	15	88.235294
2003	3832.979261	3832.979261	2003	16	94.1176471

4.4 ESTIMATION OF HYDROPOWER POTENTIAL USING FLOW DURATION CURVE

After deciding the 88% dependable year drawn the flow duration curve for the same year given in Fig.4.3, and using the flow duration curve decided the max capacity at different exceed of flow given in table 4.3.

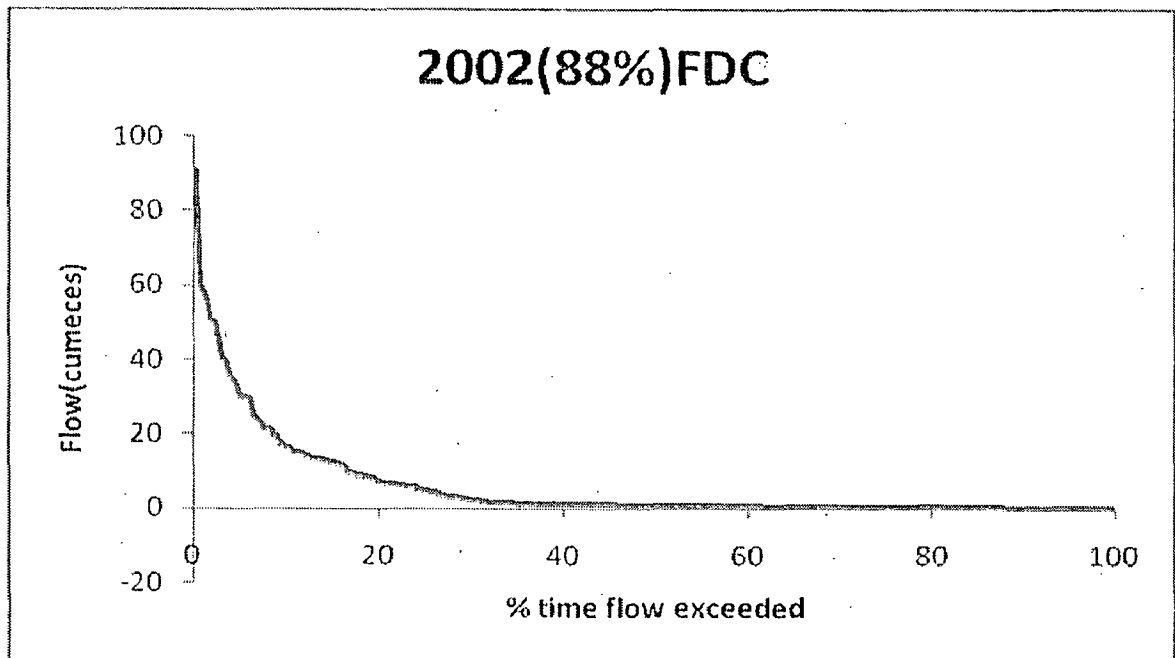


Fig 4.3 Flow duration curve showing the most dependable year 2002

Sample calculation:

$$H_{at}=120.46 \text{ m } e=80\%$$

$$\text{At 35\% of exceedence } Q=1.389679$$

$$P= 9.817*Q_t*H_{at}*e$$

$$P= 9.817*1.389679*120.46*0.8$$

$$P= 1313.761 \text{ KW}$$

$$E = P \cdot t$$

H_{at} -Head (m) e - Efficiency (%) Q -Discharge (cumec) P -Power (KW)

E - Energy (KWh) t -Time (hr)

Table 4.3 Showing the design discharge at different installed capacity.

Sr.No.	% time of flow exceeded	Max/Design discharge Q(cumec)	Max power P(MW)
1	35	1.389679133	1.31376107
2	30	2.449536333	2.31571836
3	25	4.562990772	4.31371495
4	20	7.450470341	7.04345174
5	19	8.419352723	7.95940416
6	18	9.053479165	8.55888832
7	17	9.653745668	9.12636231
8	16	11.87658091	11.2277642
9	15	12.67604391	11.9835526
10	14	13.31118075	12.583992
11	13	13.45070851	12.7158974
12	12	14.75287223	13.946924
13	11	15.30252876	14.4665528
14	10	16.56976508	15.6645601
15	5	31.52634499	29.8040633

The above table value tells us that if hydropower plant is installed at 35% then 1.31 MW is the max power we can produced daily or only up to 1.38 cumec flow is utilized for energy production. Accordingly for 30, 25.....the detailed calculation part is given in appendix D

After deciding the max capacity for 88% dependable year (2002) estimated the daily energy, firm energy, secondary energy, dump energy and total energy for each year. Note that as if we decided the installed capacity 35 or 30 or 25 or 20 or 25 the design discharge will be same for all other years what we planned for most dependable year(2002) The average total annual energy produced for diff capacity is given in Table 4.4. The detailed is given in appendix E

Table 4.4 Showing the average annual energy at different installed capacity

Sr. no	% time of flow exceeded	Average annual energy (MWh)
1	35	7747.78829
2	30	11468.2617
3	25	17111.0657
4	20	23304.3272
5	19	25371.4005
6	18	26473.7636
7	17	27437.1728
8	16	30937.4272
9	15	31468.2735
10	14	32372.7528
11	13	32555.0808
12	12	34163.2244
13	11	34797.7833
14	10	35867.4198
15	5	47224.4756

4.5 ECONOMIC EVALUATION

For deciding the optimal size of hydropower plant economic evaluation is an essential part of project. While doing the economic evaluation some assumptions are made given in material and method chapter. According to that assumption the sample calculation made below.

Sample calculation

For 35% installed capacity

Cost

$$\text{Max daily capacity/ max daily power generation capacity} = 1.313761 \text{ MW}$$

$$= 1313.761 \text{ KW}$$

$$\text{The capital cost} = 50,000 * 1313.761$$

$$= 65688053.7 \text{ Rs.}$$

$$\text{The total capital cost (considering interest on phasing cost)} = 74821978 \text{ Rs.}$$

Now after considering the interest, depreciation, taxes, working expenses the annual generation cost will be

The average annual energy generation cost

$$= \text{annual interest} + \text{annual depreciation} + \text{maintenance} + \text{working expenses} + \text{taxes}$$

$$= (0.009 * 74821978) + (0.005 * 74821978) + (0.001 * 74821978) + (0.0026 * 74821978) + (0.0005 * 74821978)$$

$$= 10781847 \text{ Rs.}$$

Total cost of generation = 10781847×16

= 172509551 Rs.

Benefit

Annual average energy production = 7747.788 MWh

= 7747788 KWh

As we considered value of energy 2.9/KWh and 2% annual increase

Now the total benefit = 365039523 Rs.

Average annual benefit = $365039523/16$

= 22814970 Rs.

BC Ratio = $22814970/10781847$

= 2.11

Plant factor = Peak generation/Average generation

= $(1313.761074/884.450718) \times 100$

= 67.32%

4.6 GRAPHICAL METHOD OF OPTIMIZATION

Method is used to fix the optimal size of hydropower plant.

4.6.1 Benefit Cost Curve Method

Table 4.5 Annual cost annual benefit at different capacity

Sr. No.	% time of flow exceeded	Annual cost (Rs)	Annual benefit (Rs)	Annual net benefit (Rs)
1	35	7684033	22766172	15082138
2	30	13544363	33698445	20154081
3	25	25230410	50279311	25048901
4	20	41196318	68477647	27281329
5	19	44763092	72640464	27877372
6	18	48134546	74860480	26725934
7	17	51325977	76800661	25474684
8	16	63144104	83849719	20705615
9	15	70090385	92466661	22376276
10	14	73602284	95124391	21522107
11	13	74373783	95660146	21286363
12	12	81573913	1E+08	18811617
13	11	84613160	1.02E+08	17636963
14	10	91620164	1.05E+08	13772989
15	5	1.74E+08	1.39E+08	-3.6E+07

After estimation annual cost and annual benefit shown in table no 4.5 plotted the curve between the annual cost and annual benefit at different capacity shown in Fig 4.4

13	11	84613160	1.02E+08	17636963
14	10	91620164	1.05E+08	13772989
15	5	1.74E+08	1.39E+08	-3.6E+07

After estimation annual cost and annual benefit shown in table no 4.5 plotted the curve between the annual cost and annual benefit at different capacity shown in Fig 4.4

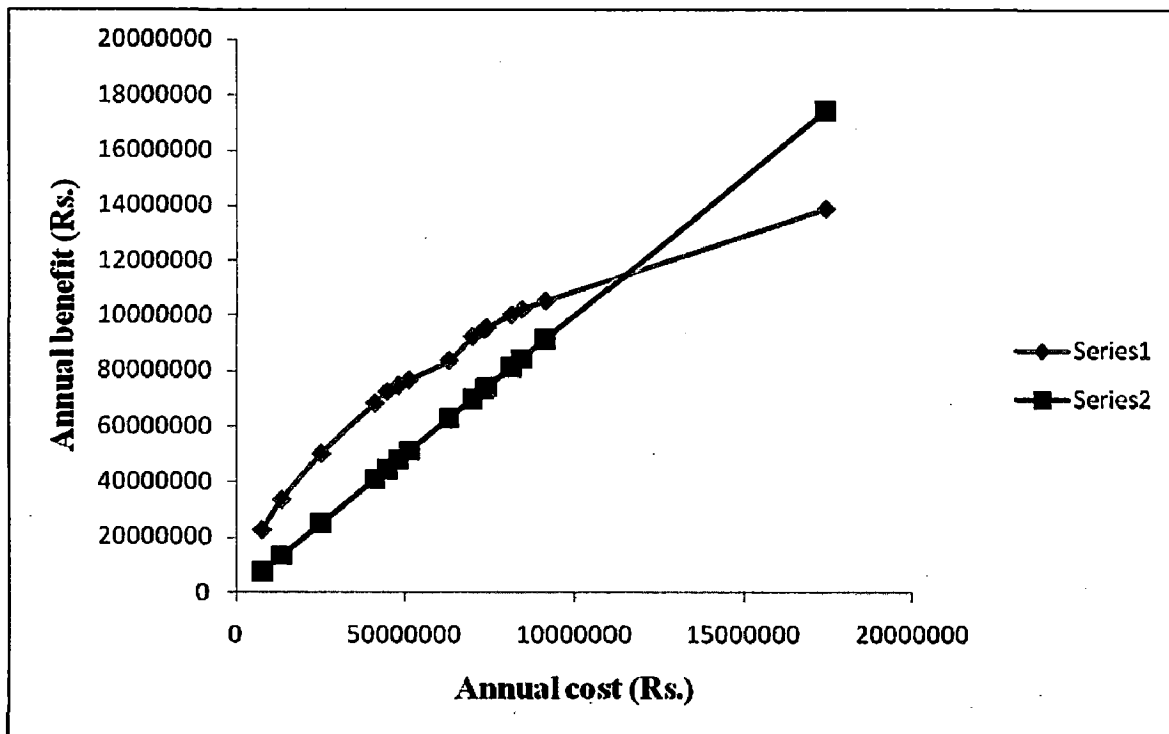


Fig 4.4 : Benefit-cost curve

The above Fig shows that the max net benefit i.e optimal installed capacity should be (for annual cost of Rs.44763092) 19%. So for 19% installed capacity Design discharge is 8.42 cumec and.....

Annual energy production = 25371.4 MWh

Annual net benefit = 27877372 Rs.

The total net benefit = 446037957 Rs.

BC Ratio = 2.11

Plant factor = 36.38%

Average generation cost/KWh = 1.77 Rs. / KWh

Average selling cost/KWh = 2.9 Rs. /KWh

Alternate Method For Optimization

4.6.2 Marginal Analysis

This methods tells us how increase in the input affects the output values i.e the ternd of input and output. the values of input(installed capacity) and output(annual energy generation) given in Table no. 4.6 and graph showing the trend given in Fig. No. 4.5

Table 4.6 Acc. Incremental installed capacity and energy.

% time of flow exceed	Installed capacity P(MW)	Incremental capacity	Annual energy generation MWh	Incremental energy	Acc. Incremental energy
1.313761			7747.788		
2.315718	1.001957	1.001957	11468.26	3720.473	3720.473
4.313715	1.997997	2.999954	17111.07	5642.804	9363.277
7.043452	2.729737	5.729691	23304.33	6193.261	15556.54
7.959404	0.915952	6.645643	25371.4	2067.073	17623.61
8.558888	0.599484	7.245127	26473.76	1102.363	18725.98
9.126362	0.567474	7.812601	27437.17	963.4092	19689.38
11.22776	2.101402	9.914003	30937.43	3500.254	23189.64
11.98355	0.755788	10.66979	31468.27	530.8463	23720.49
12.58399	0.600439	11.27023	32372.75	904.4793	24624.96

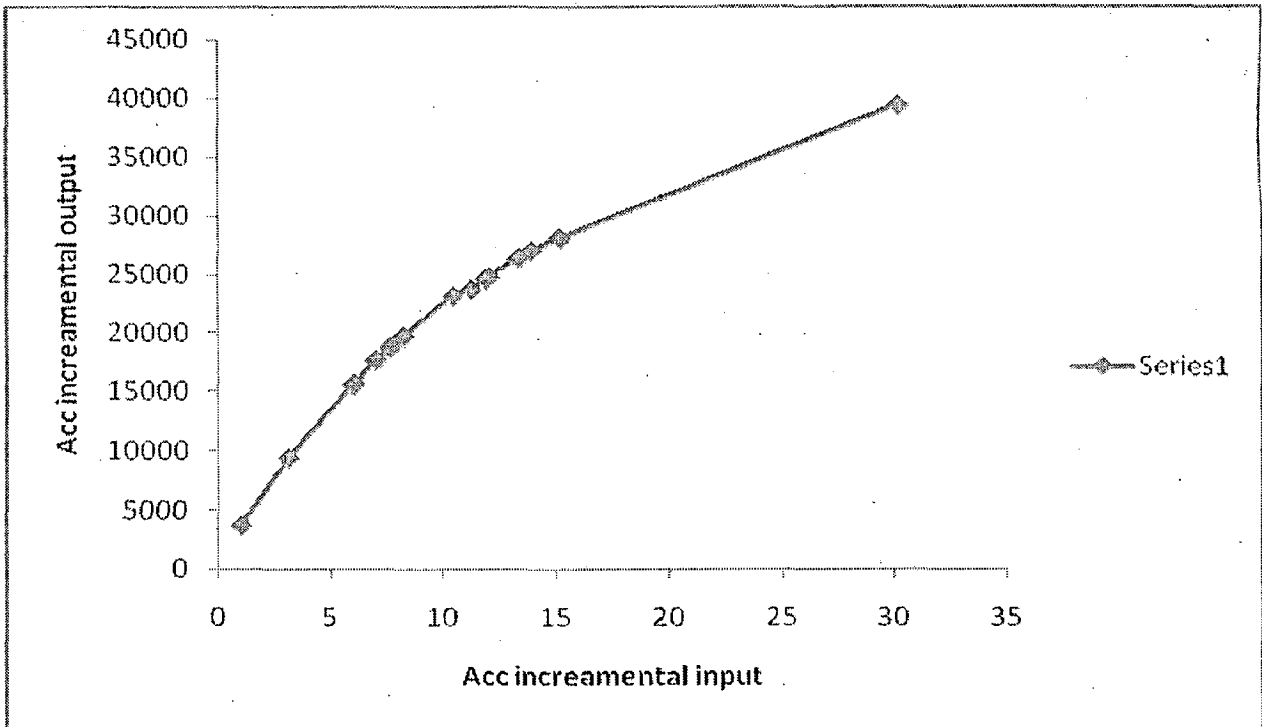
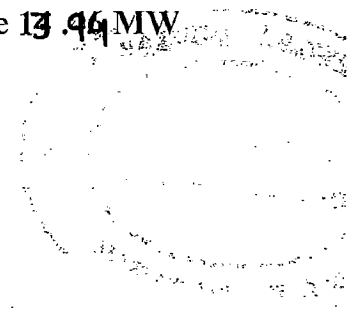


Fig 4.5 : Marginal curve

From the above graph it is clear that the optimal installed capacity should be **13.46 MW**



CHAPTER 5

SUMMARY AND CONCLUSION

The study is carried out for fixing the optimal size of small run-of river hydropower plant. For the planning of project the data available to us is

1. Point rainfall data for the Kadmane catchment
2. Rainfall-runoff data for Maranhalli catchment
3. Catchment characteristics

Using Thiessen polygon method the daily point rainfall data was converted into the average rainfall. Estimation of average rainfall values shows that there is no rainfall from December to March and receives the heavy rainfall during June to September, for rest of the months occasional rainfall occurred.

Some of the bold figures of rainfall given below.

The max annual rainfall = 8255.801 mm

The min annual rainfall = 5077.219mm

The average annual rainfall = 6582.022mm

The max daily rainfall = 327.9895 mm

The min daily rainfall = 0.0 mm

The average daily rainfall = 18.03294 mm

Then from daily rainfall at Maranhalli and corresponding runoff , rainfall-runoff relation were developed. This was used for estimating the runoff at Kadmane site. From this The daily average runoff obtained was 14.26, the average annual runoff was 5208.25, The max annual runoff was 7006.6438 and the minimum annual runoff was 3892.9792 cumecs respectively and for 90% (88.23%) dependable year it was 4138.04 cumecs

From rank analysis the year 2002 was the 90% dependable year. For this year the daily flow duration curve was estimated then the design discharges at different % exceedences were determined and installed capacities were analyzed. The values were given in table 5.1.

Table 5.1 Showing the design discharge at different installed capacity.

Sr.No.	% time of flow exceeded	Max/Design discharge Q(cumecs)	Max power P(MW)
1	35	1.389679133	1.31376107
2	30	2.449536333	2.31571836
3	25	4.562990772	4.31371495
4	20	7.450470341	7.04345174
5	19	8.419352723	7.95940416
6	18	9.053479165	8.55888832
7	17	9.653745668	9.12636231
8	16	11.87658091	11.2277642
9	15	12.67604391	11.9835526
10	14	13.31118075	12.583992
11	13	13.45070851	12.7158974
12	12	14.75287223	13.946924
13	11	15.30252876	14.4665528
14	10	16.56976508	15.6645601
15	5	31.52634499	29.8040633

The daily energy was calculated for all the 16 years for diff capacity.

The average annual energy production at different capacity given in Table 5.2

Table 5.2 Showing the average annual energy at different % exceedences

Sr. no	% time of flow exceeded	Average annual energy (MWh)
1	35	7747.79
2	30	11468.26
3	25	17111.07
4	20	23304.33
5	19	25371.40
6	18	26473.76
7	17	27437.17
8	16	30937.43
9	15	31468.27
10	14	32372.75
11	13	32555.08
12	12	34163.22
13	11	34797.78
14	10	35867.42
15	5	47224.48

Finally the economic evaluation was carried out. For economic evaluation the annual cost (for power generation) and annual benefit (benefit obtained from energy production) were determined. The cost was 1.77 Rs. / KWhr, and the selling value was Rs. 2.9 /KWhr respectively.

Table 5.3 Annual cost annual benefit at different % exceedences

Sr. no	% time of flow exceeded	Annual cost (Rs)	Annual benefit (Rs)	Annual net benefit (Rs)
1	35	7684033	22766172	15082138
2	30	13544363	33698445	20154081
3	25	25230410	50279311	25048901
4	20	41196318	68477647	27281329
5	19	44763092	72640464	27877372
6	18	48134546	74860480	26725934
7	17	51325977	76800661	25474684
8	16	63144104	83849719	20705615
9	15	70090385	92466661	22376276
10	14	73602284	95124391	21522107
11	13	74373783	95660146	21286363
12	12	81573913	1E+08	18811617
13	11	84613160	1.02E+08	17636963
14	10	91620164	1.05E+08	13772989
15	5	1.74E+08	1.39E+08	-3.6E+07

By plotting the incremental curve between annual energy vs. installed capacity the optimal installed capacity was found to be 13.94 MW for 12% flow exceedence for which the design discharge recommended is 14.75 cumecs with plant factor 28%. The maximum annual benefit is Rs.18811617 and benefit cost ratio obtained is 1.25.

B) By plotting the curve between annual cost vs. Annual benefit the optimal installed capacity was found to be 7.95 MW for 19% flow exceedence for which the design discharge recommended is 8.45 cumecs with plant factor 37%. The maximum annual benefit is Rs.27877372 and benefit cost ratio obtained is 2.11.

Out of these two methods the marginal curve analysis is taken into consideration because in case of annual cost-benefit curve method we assumed the values of cost and benefit (the actual data was not available) therefore the method of marginal curve is recommended, so the recommended optimal size of plant is 13.94 MW for 12% flow exceedence for which the design discharge recommended is 14.75 cumecs with plant factor 28%. The maximum annual benefit is Rs.18811617 and benefit cost ratio obtained is 1.25.

From the analysis it is concluded that the project is financially viable.

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Appendix A

STATION :KDM

TALUK :Sakaleshpur
Rainfall for the year 1988

DISTRICT: Hassan

Date	unit: mm											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.00	0.00	0.00	0.00	6.64	40.72	90.44	19.50	31.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.12	16.60	16.00	206.00	47.40	61.20	0.00	0.00
3	0.00	0.00	0.00	0.00	0.84	3.84	3.68	264.00	36.40	14.00	0.00	0.00
4	0.00	0.00	0.00	0.00	1.90	2.60	6.00	217.00	6.16	4.40	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	11.32	5.00	40.10	0.30	34.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	3.86	8.00	4.16	42.04	13.56	0.14	0.00
7	0.00	0.00	0.00	0.00	2.00	10.00	4.88	1.76	20.40	8.02	6.50	0.00
8	0.00	0.00	0.00	1.18	0.00	27.00	34.00	46.00	20.90	0.20	0.00	0.00
9	0.00	0.00	0.00	0.00	0.40	40.00	5.14	16.80	67.30	11.22	0.00	0.00
10	0.00	0.00	0.00	21.00	0.00	37.60	54.20	9.00	9.64	8.72	0.00	0.00
11	0.00	0.00	0.00	1.06	0.24	21.00	16.00	2.70	8.16	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	23.30	35.00	2.44	2.10	0.00	0.00	1.22
13	0.00	0.00	0.00	0.80	0.00	29.44	57.00	4.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	15.40	0.00	24.00	90.00	15.50	20.00	0.00	0.00	59.00
15	0.00	0.00	0.00	1.40	0.00	29.00	121.64	25.00	11.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	36.80	177.00	75.30	22.00	0.00	0.00	0.00
17	0.00	0.00	0.00	12.60	0.00	15.04	293.00	61.00	31.06	0.00	0.00	0.00
18	0.00	0.00	0.00	2.20	0.00	15.20	183.00	72.00	47.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	24.70	182.00	211.00	42.04	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	17.38	105.00	62.00	62.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	10.36	60.00	14.00	26.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	40.00	54.00	12.00	25.96	0.00	0.00	0.00
23	0.00	0.00	0.00	2.20	0.00	61.20	51.00	16.20	102.32	1.00	0.00	0.00
24	0.00	0.00	0.00	27.00	9.44	59.90	8.30	43.10	32.00	0.00	0.00	0.00
25	0.00	0.00	0.00	7.30	0.00	24.28	15.20	3.74	34.00	0.00	0.00	0.00
26	0.00	0.00	0.00	27.22	0.20	15.00	30.86	5.00	23.30	1.60	0.00	0.00
27	0.00	0.00	0.00	11.70	0.50	19.00	43.00	45.00	25.80	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	2.84	15.22	80.00	13.00	5.64	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.80	3.00	138.00	22.00	15.36	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	1.40	5.92	45.00	13.70	3.60	3.08	0.00	0.00
31	0.00	0.00	0.00	0.00	0.42	23.00	23.00	16.00	0.00	0.00	0.00	0.00
Total	0.0	0.0	0.0	131.1	21.1	649.2	1985.6	1629.9	809.4	192.0	6.6	60.2
	Total = 5485.2 mm											
	Max = 293.0 mm											

Rainfall for the year 1989

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.00	0.00	1.90	0.00	15.00	31.00	9.40	25.20	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	1.02	15.00	4.90	0.00	1.90	0.00	0.00
3	0.00	0.00	0.00	0.30	0.00	0.60	2.76	6.30	3.14	3.54	0.00	0.00
4	0.00	0.00	0.00	0.00	30.00	0.00	0.00	40.00	2.96	2.00	0.00	0.00
5	0.00	0.00	0.00	0.76	0.00	18.00	0.00	113.00	0.00	50.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	81.00	7.08	49.50	6.40	0.58	0.00	0.00
7	0.00	0.00	0.00	0.00	1.00	67.00	9.54	23.10	6.00	14.70	0.00	0.00
8	0.00	0.00	0.00	0.00	9.00	80.00	14.00	21.00	0.00	0.20	0.00	0.00
9	0.00	0.00	0.00	0.00	0.10	38.00	2.00	8.00	5.80	0.00	0.00	0.00
10	0.00	0.00	0.56	0.00	1.00	63.00	0.30	15.00	0.56	12.12	1.04	0.00
11	0.00	0.00	0.00	0.00	0.24	80.60	19.42	43.64	8.00	0.84	0.00	0.00
12	0.00	0.00	0.00	0.00	0.56	135.00	32.84	72.20	30.00	0.00	0.00	0.00
13	0.00	0.00	5.52	0.00	0.00	81.00	25.64	37.00	8.00	0.00	16.52	0.00
14	0.00	0.00	1.90	0.00	0.00	36.20	6.10	50.00	14.32	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	58.00	5.20	32.30	50.20	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.20	25.80	59.00	49.40	0.40	2.26	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	36.20	100.00	160.00	2.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.14	14.00	111.00	102.00	6.46	5.00	0.00	0.00
19	0.00	0.00	0.00	0.54	0.00	15.20	102.44	64.00	6.60	0.60	0.00	0.00
20	0.00	0.00	0.00	0.20	0.00	15.52	120.00	32.00	13.76	2.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.10	34.00	125.00	3.20	13.08	0.00	0.00	0.00
22	0.00	0.00	0.00	2.80	0.16	62.40	246.00	39.00	2.20	0.00	0.00	0.00
23	0.00	0.00	1.24	0.00	0.00	18.00	175.00	66.00	6.00	0.00	0.00	0.00
24	0.00	0.00	0.00	26.00	0.00	15.80	239.00	84.00	2.92	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	2.38	33.16	144.00	61.00	5.90	0.00	0.00	0.00
26	0.00	0.00	0.00	10.16	0.00	36.94	100.00	36.00	13.60	0.00	0.00	0.00
27	0.00	0.00	0.00	1.00	0.00	15.80	81.00	38.00	43.98	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	83.00	9.20	10.00	70.00	0.40	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	89.00	15.80	9.00	8.02	0.08	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	163.00	0.30	25.00	5.10	12.72	0.00	0.00
31	0.00	0.00	0.00	0.00	1.10	0.00	0.00	31.00	0.00	0.00	0.00	0.00
Total	0.0	0.0	9.2	43.7	46.0	1412.2	1798.6	1334.9	360.6	108.9	17.6	0.0

unit : mm

Max = 246.0

mm

Total = 5131.8

Rainfall for the year 1990

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.00	0.00	0.00	0.00	20.64	154.30	40.00	7.00	31.74	0.00	0.00
2	20.00	0.00	0.00	0.00	0.00	45.14	221.00	55.70	9.00	15.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	12.00	92.00	17.80	16.00	8.44	0.20	0.00
4	0.00	0.00	0.00	0.00	0.00	2.24	35.00	10.00	46.00	10.60	0.00	0.00
5	0.00	0.00	0.00	0.00	6.98	3.20	20.00	3.64	66.00	0.84	0.00	0.00
6	0.00	0.00	0.00	0.00	2.60	24.00	29.28	8.64	68.00	3.04	0.00	0.00
7	0.00	0.00	0.00	4.46	0.00	9.00	50.80	6.00	17.00	0.44	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	4.00	19.00	26.10	11.14	10.00	0.00	0.00
9	0.00	0.00	0.00	0.00	11.38	26.00	41.22	45.00	1.14	0.00	0.20	0.00
10	0.00	0.00	0.00	0.00	4.70	23.00	56.40	83.56	12.00	0.00	2.82	0.00
11	0.00	0.00	0.00	0.00	21.00	64.00	64.88	81.00	40.94	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	36.00	21.56	83.00	41.04	0.12	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	19.00	14.88	169.00	35.00	8.80	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	10.00	58.72	200.00	19.02	6.60	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	44.00	47.00	152.00	0.00	8.84	0.84	0.00
16	0.00	0.00	0.00	0.00	0.00	81.00	104.24	153.60	0.00	0.00	0.60	0.00
17	0.00	0.00	0.00	0.00	2.00	103.00	97.00	96.40	0.00	3.76	0.96	0.00
18	0.00	0.00	0.00	0.00	1.00	104.00	136.00	96.00	0.00	0.20	0.00	0.00
19	0.00	0.00	0.00	0.00	48.00	175.00	55.76	139.00	0.00	3.00	0.00	0.00
20	0.00	0.00	0.00	0.00	33.00	29.88	52.00	122.00	25.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	13.00	25.84	32.00	92.00	9.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	27.00	48.00	32.00	135.24	0.76	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	5.56	36.00	51.00	92.00	24.00	34.00	0.00	0.00
24	0.00	0.00	0.00	0.30	14.40	18.00	92.06	49.00	1.42	20.00	0.00	0.00
25	0.00	0.00	0.00	0.00	3.04	59.00	57.20	18.00	2.86	2.20	0.00	0.00
26	0.00	0.00	0.00	0.00	7.64	143.00	20.00	21.76	1.96	27.00	5.00	0.00
27	0.00	0.00	0.00	0.00	31.00	107.00	12.80	6.06	5.20	50.56	0.00	0.00
28	0.00	0.00	0.00	0.00	48.00	71.00	30.00	29.00	0.84	31.40	0.00	0.00
29	0.00	0.00	0.00	0.00	18.00	94.44	20.30	59.90	3.00	15.80	0.00	0.00
30	0.00	0.00	0.00	0.00	29.00	49.40	40.94	62.00	1.96	9.00	0.00	0.00
31	0.00	0.00	0.00	0.00	23.12	44.04	50.00	44.04	6.44	6.44	0.00	0.26
Total	20.0	0.0	0.0	4.8	350.4	1486.8	1809.3	2197.4	465.3	307.8	10.6	0.3

unit : mm

mm

Total =

Max =

Rainfall for the year 1991

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.00	0.00	0.00	0.00	0.40	29.00	65.52	1.22	0.00	0.00	0.00
2	0.00	0.00	0.00	25.00	0.00	23.00	8.50	14.36	0.00	2.00	0.50	0.00
3	0.00	0.00	0.00	0.00	0.00	17.50	12.00	14.00	0.00	8.00	28.30	0.00
4	0.00	0.00	0.00	7.28	5.00	88.00	40.00	8.20	0.00	5.72	11.76	0.00
5	0.00	0.00	0.00	0.00	5.00	40.00	75.60	6.00	0.00	27.00	14.16	0.00
6	0.00	0.00	0.00	1.02	0.00	75.00	84.00	12.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	139.00	33.50	40.00	0.20	0.84	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	166.34	63.00	54.00	16.00	4.76	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	184.50	57.00	80.90	0.00	10.00	0.00	0.00
10	0.00	0.00	0.20	35.00	0.00	320.00	60.64	55.00	0.00	5.56	0.00	0.00
11	0.00	0.00	0.00	27.58	2.12	121.96	63.00	40.00	0.00	1.38	0.00	0.00
12	0.00	0.00	0.00	0.00	0.44	70.00	108.00	56.00	9.00	8.96	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	5.70	92.00	122.00	0.60	2.70	0.00	0.00
14	0.00	0.00	0.00	0.48	18.00	5.32	78.00	154.00	23.00	0.00	0.00	0.00
15	0.00	0.00	1.00	2.00	1.60	13.54	127.00	107.16	7.00	0.00	0.40	0.00
16	0.00	0.00	0.00	0.00	0.00	52.98	103.00	74.82	1.00	20.00	0.82	0.00
17	0.00	0.00	0.00	0.00	0.00	36.76	72.00	42.00	0.00	37.08	6.00	0.00
18	0.00	0.00	0.00	1.36	0.00	9.20	48.00	44.00	0.00	3.28	0.00	0.00
19	0.00	0.00	0.00	0.64	0.00	54.00	89.46	14.00	0.00	3.00	0.00	0.00
20	0.00	0.00	0.00	0.00	5.00	95.00	84.00	36.00	0.20	0.00	0.00	12.00
21	0.00	0.00	0.00	5.34	9.00	5.80	77.30	45.00	21.04	5.68	0.00	0.00
22	0.00	0.00	0.00	3.50	3.00	14.00	76.20	53.60	15.00	1.00	0.00	0.00
23	0.00	0.00	0.00	21.00	32.64	13.20	64.00	49.44	25.84	3.14	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	21.00	90.00	44.00	6.24	0.00	0.00	0.00
25	0.00	0.00	0.00	0.10	41.00	57.16	141.20	35.00	8.20	0.00	0.00	0.00
26	0.00	0.00	0.00	0.90	0.00	42.00	322.90	8.00	1.20	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	22.00	90.00	366.00	8.00	6.40	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	4.00	31.00	172.00	6.64	16.22	4.76	0.00	0.00
29	0.00	0.00	0.00	0.00	14.00	7.00	242.36	12.00	1.24	25.00	0.00	0.00
30	0.00	0.00	0.00	0.00	6.88	62.00	161.48	1.96	0.00	7.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.28	80.00	80.00	5.00	0.00	0.60	0.00	0.00
Total	0.0	0.0	1.2	131.2	170.0	1861.4	3121.1	1308.6	159.6	187.5	61.9	12.0
				Total =	7014.5	mm			Max =	366.0	mm	

Rainfall for the year 1992

Date	unit: mm											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.00	0.00	0.00	1.80	0.20	13.00	29.94	27.98	27.50	0.00	0.00
2	0.00	0.00	0.00	0.00	0.60	48.64	1.80	32.00	55.00	15.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.60	23.00	106.44	23.80	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	27.10	0.00	11.00	53.00	73.00	0.00	0.00
5	0.00	0.00	0.00	0.00	16.00	21.00	2.00	3.80	58.00	107.00	0.00	0.00
6	0.00	0.00	0.00	0.00	1.00	0.00	11.52	1.44	108.00	2.16	0.00	0.00
7	0.00	0.00	0.00	0.00	1.16	6.00	19.00	12.00	98.00	9.00	0.00	0.00
8	0.00	0.00	0.00	16.00	1.14	1.60	15.00	11.32	54.80	6.36	11.00	0.00
9	0.00	0.00	0.00	0.00	1.08	0.40	10.00	45.00	32.94	3.00	8.18	0.00
10	0.00	0.00	0.00	0.00	2.54	0.00	6.00	83.00	8.10	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	9.06	7.52	38.76	108.00	0.80	3.60	0.00	0.00
12	0.00	0.00	0.00	0.00	10.08	15.00	36.00	238.40	0.58	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.40	39.00	30.00	216.00	0.00	1.18	0.00	0.00
14	0.00	0.00	0.00	0.00	13.00	7.00	30.08	133.00	0.00	4.20	7.18	0.00
15	0.00	0.00	0.00	0.00	5.00	78.00	37.00	100.00	0.60	45.88	105.00	0.00
16	0.00	0.00	0.00	0.00	0.00	88.00	89.00	240.40	0.00	0.20	93.00	0.00
17	0.00	0.00	0.00	0.00	14.80	124.00	176.86	159.12	4.00	0.00	25.00	0.00
18	0.00	0.00	0.00	0.32	3.00	307.52	87.28	121.00	1.96	0.00	3.16	0.00
19	0.00	0.00	0.00	1.26	0.00	262.00	156.40	112.00	31.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.20	0.00	279.90	185.40	109.68	51.00	0.00	36.00	0.00
21	0.00	0.00	0.00	0.00	0.00	141.00	49.28	46.18	2.76	0.00	18.00	0.00
22	0.00	0.00	0.00	0.00	0.00	124.28	48.00	62.00	1.22	0.00	1.00	0.00
23	0.00	0.00	0.00	11.04	0.60	108.08	63.00	6.00	15.00	1.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	28.72	122.00	16.00	5.34	0.00	0.00	0.00
25	0.00	0.00	0.00	8.00	0.00	23.30	104.56	21.00	0.00	4.80	0.00	0.00
26	0.00	0.00	0.00	17.00	0.00	66.00	245.00	31.50	20.20	0.00	0.00	0.00
27	0.00	0.00	0.00	0.20	0.00	141.00	116.00	41.00	11.30	0.40	0.00	0.00
28	0.00	0.00	0.00	0.00	15.00	59.00	141.98	63.00	65.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	49.00	74.00	48.00	24.06	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	61.00	54.96	18.00	1.50	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	10.56	10.56	17.00	0.00	0.00	0.00	0.00
Total	0.0	0.0	0.0	54.0	96.3	2114.3	1975.0	2159.8	838.6	328.1	307.5	0.0
Total = 7873.5 mm												
Max = 307.5 mm												

Rainfall for the year 1993

unit : mm

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.00	0.00	0.00	0.00	1.08	58.00	175.00	12.04	2.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.40	114.00	88.00	14.06	42.90	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	5.26	89.00	113.00	26.00	25.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	2.32	23.00	19.00	24.00	9.64	1.50	0.00
5	0.00	0.00	0.00	0.00	0.00	12.00	35.50	8.00	33.00	2.32	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.40	5.00	3.54	20.84	5.00	0.00	0.20
7	0.00	0.00	0.00	0.00	0.00	3.98	30.00	24.00	19.00	1.60	0.00	14.00
8	0.00	0.00	0.00	0.00	29.00	10.08	33.00	15.00	10.00	2.24	0.40	6.20
9	0.00	0.00	0.00	0.00	0.72	16.00	123.00	46.00	5.00	12.00	2.10	0.00
10	0.00	0.00	0.00	16.50	0.00	27.00	82.00	51.00	0.50	11.08	7.00	0.00
11	0.00	0.00	0.00	0.00	0.00	71.00	171.00	81.44	6.96	4.70	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	47.00	78.00	102.00	5.28	5.00	1.80	0.00
13	0.00	0.00	0.00	0.00	0.00	43.00	162.00	52.00	9.00	25.00	0.00	0.00
14	0.00	0.00	0.00	0.00	22.00	58.00	191.00	112.00	5.00	10.20	0.00	0.00
15	0.00	0.00	0.00	0.20	5.00	69.00	125.00	155.00	11.48	18.00	0.00	0.00
16	0.00	0.00	0.00	0.00	1.74	80.00	107.00	117.00	0.16	2.80	3.12	0.00
17	0.00	0.00	0.00	12.00	23.88	106.28	11.00	46.00	0.18	1.20	0.00	0.00
18	0.00	0.00	0.00	34.00	0.00	142.40	7.24	25.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	2.66	13.00	63.00	2.00	21.40	0.66	39.00	0.00	0.00
20	0.00	0.00	0.00	0.00	6.00	18.36	3.48	72.00	0.00	29.10	0.00	0.00
21	0.00	0.00	0.00	2.52	19.18	8.00	8.00	30.00	0.00	17.00	0.00	0.00
22	0.00	0.00	0.00	6.00	16.00	16.00	17.00	32.00	1.80	8.64	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	1.88	13.00	19.00	21.40	3.02	0.00	0.00
24	0.00	0.00	0.00	1.08	0.00	0.96	27.00	36.00	6.00	0.00	0.00	0.00
25	0.00	0.00	0.00	4.00	0.00	11.00	50.00	31.00	0.68	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	2.20	31.00	56.00	63.00	3.72	0.00	0.00	0.00
27	0.00	0.00	0.00	0.60	0.00	10.84	76.00	7.56	3.34	0.00	0.00	0.00
28	0.00	0.00	0.00	4.02	2.24	9.00	122.00	8.64	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	2.90	0.00	8.92	175.00	34.00	0.00	1.26	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	30.00	171.00	48.58	2.20	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00	182.00	22.00	0.00	0.00	0.00	0.00
Total	0.0	0.0	0.0	86.5	141.0	904.2	2347.2	1658.2	242.3	278.7	15.9	20.4
	Total = 5694.3 mm											
	Max = 191.0 mm											

Rainfall for the year 1994

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.00	0.00	0.00	0.00	1.00	85.00	112.00	148.00	19.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	18.26	70.00	94.00	100.00	10.00	5.80	0.00
3	0.00	0.00	0.00	5.88	0.00	38.00	13.72	53.00	86.00	24.00	3.00	0.00
4	0.00	0.00	0.00	0.00	0.00	131.00	15.04	34.24	64.00	22.00	1.88	0.00
5	0.00	0.00	0.00	9.80	20.76	85.00	37.00	9.00	92.00	30.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.40	36.00	8.92	7.24	48.00	30.80	0.00	0.00
7	0.00	0.00	0.00	0.00	0.08	20.32	12.00	7.52	11.32	3.26	0.00	0.00
8	0.00	0.00	0.00	0.00	1.60	43.00	31.00	0.64	6.40	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	25.40	118.00	3.00	9.00	20.00	0.00	0.00
10	0.00	0.00	0.00	20.00	0.00	30.00	146.00	24.20	4.64	19.00	0.00	0.00
11	0.00	0.00	0.00	30.00	0.00	106.00	290.00	40.00	0.00	0.28	0.00	0.00
12	0.00	0.00	0.00	0.84	0.00	125.00	289.00	31.00	0.52	35.00	0.00	0.00
13	0.00	0.00	0.00	0.40	0.00	117.00	250.00	2.68	0.44	24.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	105.00	220.00	2.00	7.00	13.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	105.00	145.00	2.00	1.00	16.72	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	68.14	162.00	26.00	0.00	15.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	45.00	49.00	40.00	0.00	0.00	0.00	0.00
18	12.00	0.00	0.00	0.00	0.00	50.00	83.00	65.00	0.60	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	79.44	110.30	40.00	0.00	2.10	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	20.08	145.00	25.00	0.00	2.80	0.00	0.00
21	0.00	0.00	0.00	0.00	0.68	2.52	130.00	25.00	0.00	0.10	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	26.00	75.00	15.00	0.00	5.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	24.00	74.00	61.00	0.00	17.60	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	79.00	81.00	55.00	0.00	24.02	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	66.00	90.00	40.40	0.00	5.26	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	93.00	79.00	107.00	2.56	37.00	0.00	0.00
27	0.00	0.00	0.00	0.00	8.00	98.08	100.00	81.00	2.30	33.00	0.00	0.00
28	0.00	0.00	0.00	0.00	33.00	158.00	84.00	82.00	16.98	4.52	0.00	0.00
29	0.00	0.00	0.00	0.00	0.40	136.76	81.00	68.00	5.68	6.84	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	86.00	112.00	127.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00	93.00	171.40	0.00	0.00	0.00	0.00
Total	12.0	0.0	0.0	66.9	64.9	2018.0	3279.0	1451.3	606.4	420.3	10.7	0.0

unit: mm

Max =

mm

Total =

7929.6

Rainfall for the year 1995

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.00	0.00	0.00	0.00	0.00	59.00	15.00	145.00	5.20	0.00	0.00
2	0.00	0.00	0.00	0.00	0.40	0.00	52.00	66.00	214.56	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	18.90	90.00	181.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	4.00	2.24	6.00	44.60	100.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	14.00	0.00	23.80	12.94	62.00	2.04	21.96	0.00
6	0.00	0.00	0.00	26.10	10.20	0.00	46.00	13.42	48.30	3.00	3.36	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	15.00	64.16	29.00	7.00	0.00	0.00
8	0.00	0.00	0.00	0.00	7.00	0.00	15.00	70.00	13.04	0.12	0.00	0.00
9	0.00	0.00	0.00	0.00	2.16	7.00	56.22	18.92	7.04	5.00	0.00	0.00
10	0.00	0.00	0.00	0.00	8.00	18.00	146.00	0.20	0.00	25.00	0.00	0.00
11	0.00	0.00	0.00	0.00	12.60	54.00	160.00	14.00	0.00	1.48	0.00	0.00
12	0.00	0.00	0.00	0.00	49.00	77.00	130.00	7.00	4.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	23.00	64.00	88.00	11.00	2.10	0.60	0.00	0.00
14	0.00	0.00	0.00	0.00	77.90	29.00	37.00	8.50	45.34	3.00	0.00	0.00
15	0.00	0.00	0.00	0.00	1.46	7.14	50.00	6.18	31.00	0.00	0.00	0.00
16	0.00	0.00	0.00	1.30	2.78	8.00	172.00	27.00	19.48	0.00	0.00	0.00
17	0.00	0.00	0.00	16.90	0.00	4.00	46.26	28.62	28.56	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	9.40	133.76	1.00	14.00	19.36	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	4.42	190.00	21.40	5.00	0.20	0.00	0.00
20	0.00	0.00	0.00	26.00	0.00	8.10	100.80	22.00	0.00	0.20	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	9.42	111.10	0.40	14.00	0.00	0.00	0.00
22	0.00	0.00	0.00	1.40	0.00	6.00	35.40	0.00	0.20	0.00	0.00	0.00
23	0.00	0.00	0.00	16.50	0.00	6.00	34.00	26.00	0.00	5.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	3.48	18.00	2.10	0.00	16.00	4.00	0.00
25	0.00	0.00	0.00	0.00	6.00	13.00	15.00	12.00	1.70	3.00	17.00	0.00
26	0.00	0.00	0.00	0.00	0.00	46.00	80.00	89.00	0.00	1.60	0.00	0.00
27	0.00	0.00	0.00	0.00	7.42	48.00	40.00	17.20	0.00	15.16	0.00	0.00
28	0.00	0.00	0.00	0.00	1.00	62.00	3.10	116.96	1.20	0.60	0.00	0.00
29	0.00	0.00	0.00	22.30	2.60	82.00	8.00	116.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	4.00	19.20	68.00	39.00	205.00	5.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	11.40	33.20	33.20	140.00	6.56	6.56	0.00	0.00
Total	0.0	0.0	0.0	114.5	260.1	636.2	1962.5	1266.6	971.5	120.1	46.3	0.0
				Total =	5377.9	mm		Max =		214.6	mm	

Rainfall for the year 1996

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.00	0.00	0.00	0.00	4.24	0.00	134.80	2.00	15.20	0.00	0.00
2	0.00	0.00	0.00	1.04	0.00	1.78	0.20	29.00	2.00	70.00	42.00	0.00
3	0.00	0.00	0.00	15.50	0.00	8.44	2.50	63.10	5.94	42.60	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.50	59.40	12.40	1.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.60	29.60	8.80	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	15.00	124.60	7.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.80	0.60	30.00	4.60	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	4.10	3.00	22.90	7.92	0.00	0.00	0.96
9	0.00	0.00	0.00	0.00	0.00	8.00	0.00	84.80	5.00	20.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	2.30	31.00	27.90	15.00	10.00	0.00	0.40
11	0.00	0.00	0.00	10.78	0.00	1.16	33.40	10.00	20.60	1.90	0.00	0.00
12	0.00	0.00	0.00	0.60	0.00	30.60	67.00	20.00	23.20	3.20	1.00	0.00
13	0.00	0.00	0.00	13.00	0.00	102.00	18.80	30.00	41.00	8.70	2.20	0.00
14	0.00	0.00	0.00	0.40	0.00	367.00	53.40	26.90	2.76	10.40	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	91.00	71.16	22.54	16.30	0.00	0.00	5.82
16	0.00	0.00	0.00	3.00	0.00	100.00	83.00	18.00	10.00	8.20	0.00	32.00
17	0.00	0.00	0.00	0.00	0.00	202.00	122.80	12.80	16.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	113.00	150.60	48.20	10.00	2.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	100.00	102.80	15.00	11.70	16.50	0.00	0.00
20	0.00	0.00	0.00	0.00	2.60	52.60	161.50	1.30	15.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	41.80	112.00	6.80	2.92	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	13.46	272.60	5.20	0.00	0.00	4.28	0.00
23	0.00	0.00	0.00	3.00	4.20	47.00	215.00	10.96	36.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	3.96	185.80	60.00	1.46	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.40	146.10	50.00	5.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	1.80	0.00	157.20	28.10	6.22	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	1.20	186.90	57.36	35.00	1.80	0.00	0.00
28	0.00	0.00	0.00	0.00	10.00	0.00	96.00	88.76	92.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	5.60	82.00	64.00	16.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	6.50	6.00	77.90	4.20	1.60	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	111.80	111.80	0.40	0.00	9.00	0.00	0.00
Total	0.0	0.0	0.0	47.3	25.1	1308.4	2561.2	1186.6	433.4	220.5	49.5	39.2

Total = 5871.2 mm Max = 367.0 mm

Rainfall for the year 1997

unit : mm

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.00	0.00	0.50	3.00	0.00	111.40	259.72	0.40	19.80	0.00	0.00
2	0.00	0.00	0.00	0.00	104.20	0.00	70.00	85.60	24.60	11.20	0.00	0.00
3	0.00	0.00	0.00	0.00	0.40	0.00	70.60	100.00	14.00	6.20	3.60	0.00
4	0.00	0.00	0.00	0.00	0.70	0.00	88.20	30.20	2.20	0.00	1.40	0.00
5	0.00	0.00	0.00	0.00	0.00	31.64	96.00	93.00	2.90	1.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	104.80	249.60	3.60	3.20	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	4.00	98.30	260.00	77.40	6.00	0.00	0.00
8	0.00	0.00	0.00	22.00	0.00	0.00	150.60	45.00	9.20	0.00	0.00	20.00
9	0.00	0.00	0.00	0.00	0.00	5.50	245.00	24.80	5.00	0.00	0.00	1.00
10	0.00	0.00	0.00	0.00	0.00	17.80	128.76	22.40	18.40	0.00	1.20	0.00
11	0.00	0.00	0.00	0.00	12.00	17.90	46.80	6.90	32.30	0.20	5.20	0.00
12	0.40	0.00	0.00	0.00	0.00	28.00	48.40	22.00	0.40	0.00	4.40	0.00
13	0.00	0.00	0.00	0.00	8.70	6.46	72.00	2.00	0.40	0.00	7.00	1.00
14	0.00	0.00	0.00	0.00	0.00	5.10	60.00	0.40	0.00	0.00	7.40	0.00
15	2.30	0.00	19.00	0.00	0.00	8.00	51.00	4.00	181.60	4.20	0.00	0.00
16	0.00	0.00	0.00	0.00	0.50	8.00	67.00	4.40	13.40	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	25.00	70.70	43.00	110.00	0.00	3.00	0.00
18	0.00	0.00	0.00	0.00	0.00	13.20	55.00	19.20	140.80	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	17.40	82.00	48.70	30.00	0.00	0.80	0.00
20	0.00	0.00	14.90	19.00	0.00	20.00	5.00	91.60	14.00	0.00	0.00	0.00
21	0.00	0.00	0.00	15.00	0.00	5.60	16.00	150.00	18.20	0.00	0.00	0.00
22	0.00	0.00	30.00	0.00	0.40	5.00	22.00	245.00	16.00	12.00	7.00	0.00
23	0.00	0.00	42.00	0.00	0.00	45.00	35.00	202.00	0.40	1.60	75.00	0.00
24	0.00	0.00	3.00	0.00	4.78	141.80	84.00	59.20	4.00	0.00	0.40	0.00
25	0.00	0.00	0.00	0.00	0.00	116.10	115.00	161.64	7.50	39.40	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	94.90	105.00	98.00	2.10	7.00	8.50	0.00
27	0.00	0.00	0.00	0.00	0.00	116.20	81.00	55.00	5.00	0.00	0.20	0.00
28	0.00	0.00	0.00	0.00	0.00	194.00	69.40	32.80	6.00	8.60	0.00	0.00
29	0.00	0.00	11.00	0.00	0.00	171.80	168.40	84.32	1.00	1.60	0.00	0.00
30	0.00	0.00	3.00	4.76	0.00	137.00	239.60	34.00	43.00	3.80	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	204.00	204.00	6.60	19.60	19.60	0.00	0.00
Total	2.7	0.0	122.9	61.3	134.7	1235.4	2861.0	2541.1	783.8	145.4	125.1	22.0
				Total =	8035.3	mm			Max =	260.0	mm	

Rainfall for the year 1998

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.00	0.00	10.00	0.80	0.00	237.60	35.40	34.00	3.40	6.00	0.00
2	0.00	0.00	0.00	0.00	0.70	0.00	185.80	3.00	15.00	3.40	9.00	0.00
3	0.00	0.00	0.00	0.00	4.00	0.00	164.60	32.00	25.00	33.00	3.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	176.80	50.20	30.00	29.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	169.30	17.70	15.00	12.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	101.80	25.20	9.80	0.00	7.50	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	97.90	22.00	14.00	0.00	5.00	0.00
8	0.00	0.00	0.00	0.00	0.00	37.20	154.20	81.80	67.00	0.00	52.00	0.00
9	0.00	0.00	0.00	0.00	0.00	84.60	181.00	152.80	85.80	2.40	21.30	0.00
10	0.00	0.00	0.00	10.00	0.00	53.00	89.20	168.80	20.00	18.80	0.00	1.60
11	0.00	0.00	0.00	0.00	22.00	33.40	112.30	161.00	76.70	24.40	0.00	0.00
12	0.00	0.00	0.00	0.00	1.60	19.30	75.30	48.00	108.00	21.60	4.00	0.00
13	0.00	0.00	0.00	0.00	7.20	16.10	32.90	25.00	88.60	16.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	31.36	25.00	2.00	115.20	37.40	0.00	0.00
15	0.00	0.00	0.00	0.00	17.00	16.00	0.80	0.00	81.60	57.70	0.00	0.00
16	0.00	0.00	0.00	0.00	1.20	44.80	40.00	0.40	20.00	59.50	34.50	18.00
17	0.00	0.00	0.00	0.00	0.00	27.90	6.16	2.30	14.40	53.10	2.00	0.00
18	0.00	0.00	0.00	0.00	0.00	12.00	7.00	30.60	2.70	25.40	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	73.56	5.80	27.60	0.20	5.60	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	91.00	14.66	31.00	14.00	0.00	4.00	0.00
21	0.00	0.00	0.00	1.40	0.00	91.90	5.20	10.40	5.20	0.00	22.40	0.00
22	0.00	0.00	0.00	0.00	0.00	74.00	7.80	0.10	27.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	93.00	24.70	7.00	17.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	93.00	64.50	45.20	5.00	0.00	0.00	0.00
25	0.00	0.00	0.00	53.00	0.80	80.00	89.50	121.40	20.00	0.00	0.60	0.00
26	0.00	0.00	0.00	0.00	24.20	100.36	38.00	45.00	1.00	0.00	0.00	0.00
27	0.00	0.00	3.00	0.00	0.60	116.00	58.90	64.60	2.00	24.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	161.00	100.00	16.00	60.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	155.00	242.00	6.40	27.80	0.00	0.00	0.00
30	0.00	0.00	0.00	20.00	0.00	290.00	105.00	3.00	16.40	7.40	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	99.40	0.00	6.00	0.00	0.00	0.00	0.00
Total	0.0	0.0	3.0	94.4	80.1	1794.5	2713.1	1241.9	1018.4	434.1	171.3	19.6
				Total =	7570.4	mm			Max =	290.0	mm	

Rainfall for the year 1999

Date	unit: mm											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.00	0.00	0.00	0.00	1.80	42.30	84.00	20.00	9.20	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	15.00	40.90	121.50	15.00	11.40	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	40.00	27.20	151.40	20.60	9.80	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	11.00	25.00	108.00	33.80	81.20	0.40	0.00
5	0.00	0.00	0.00	0.00	10.80	8.00	45.50	71.00	22.80	8.00	0.00	0.00
6	0.00	0.00	0.00	0.00	27.80	0.00	58.40	107.00	18.00	14.00	0.00	0.00
7	0.00	0.00	0.00	0.00	2.20	3.40	42.00	150.00	7.80	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	4.00	1.80	76.80	96.00	8.00	0.00	0.00	0.00
9	0.00	0.00	0.00	6.00	0.00	14.00	138.60	107.00	13.60	2.00	0.00	0.00
10	0.00	0.00	0.00	2.40	6.66	18.20	53.40	16.00	28.00	10.00	0.00	0.00
11	0.00	0.00	0.00	0.00	11.80	56.00	27.80	26.00	17.20	12.00	0.00	0.00
12	0.00	0.00	0.00	3.00	0.94	130.00	45.60	16.80	13.00	7.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	37.00	61.00	18.00	17.00	1.60	0.00	0.00
14	0.00	0.00	0.00	0.00	39.00	43.00	85.00	16.00	11.00	22.20	0.00	0.00
15	0.00	0.00	0.00	0.00	5.00	26.00	90.00	20.98	13.60	1.60	0.00	0.00
16	0.00	0.00	0.00	0.00	5.40	70.00	80.00	15.00	27.40	30.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.20	86.00	140.50	2.00	0.60	25.60	0.00	0.00
18	0.00	0.00	0.00	0.00	0.60	140.00	122.80	22.20	0.20	50.40	0.00	0.00
19	0.00	0.00	0.00	0.00	28.30	129.00	136.00	3.40	0.00	0.20	0.00	0.00
20	0.00	0.00	0.00	0.00	27.00	125.00	60.60	13.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	45.00	39.00	74.20	6.20	0.00	44.60	0.00	0.00
22	0.00	0.00	0.00	6.20	9.00	31.00	108.80	0.70	0.00	58.60	0.00	0.00
23	0.00	0.00	0.60	3.00	54.00	20.60	43.40	0.20	0.00	14.00	0.00	0.00
24	0.00	0.00	0.00	16.00	78.00	4.60	58.00	15.60	0.00	1.00	0.00	0.00
25	0.00	0.00	0.00	0.00	37.00	32.00	138.00	41.60	11.20	42.00	0.00	0.00
26	0.00	0.00	0.00	0.00	14.60	0.30	104.00	39.40	1.20	1.00	0.00	0.00
27	0.00	0.00	0.00	0.00	29.40	16.00	133.00	24.00	0.00	20.00	0.00	0.00
28	0.00	0.00	0.00	0.00	3.60	0.00	120.00	4.80	0.00	40.40	0.00	0.00
29	0.00	0.00	0.00	0.00	0.20	14.20	133.20	8.80	1.00	58.00	0.00	0.00
30	0.00	0.00	0.00	0.00	11.30	5.10	120.00	7.40	0.00	2.60	0.00	0.00
31	0.00	0.00	0.00	0.00	9.00	97.00	97.00	13.00	0.00	0.00	0.00	0.00
Total	0.0	0.0	0.6	36.6	460.8	1118.0	2529.0	1327.0	301.0	578.4	0.4	0.0
	Total = 6351.8 mm											
	Max = 151.4 mm											

Rainfall for the year 2000

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	unit:
1	0.00	0.00	0.00	0.00	0.00	16.60	57.40	0.00	39.10	89.60	0.00	0.00	mm
2	0.00	0.00	0.00	0.00	7.20	21.00	37.50	2.00	151.20	8.60	0.00	0.00	
3	0.00	0.00	0.00	4.20	0.00	19.50	4.60	33.50	82.50	2.00	0.00	0.00	
4	0.00	0.00	0.00	1.00	0.00	22.00	36.50	10.00	52.00	3.70	0.00	0.00	
5	0.00	0.00	0.00	0.00	7.60	26.00	19.40	3.80	6.00	1.10	0.00	0.00	
6	0.00	0.00	0.00	0.00	1.60	196.50	20.00	3.50	11.80	2.00	0.00	0.00	
7	0.00	0.00	0.00	0.00	0.00	75.00	71.40	45.00	23.20	2.00	0.00	0.00	
8	0.00	0.00	0.00	0.00	0.00	83.50	146.60	81.80	1.00	20.10	0.00	0.00	
9	0.00	0.00	0.00	0.00	2.80	48.00	128.80	69.80	13.00	9.10	0.00	0.00	
10	0.00	0.00	0.00	0.20	53.00	41.00	154.20	50.00	7.00	25.60	0.00	0.00	
11	0.00	0.00	0.00	0.00	0.00	37.50	267.00	66.50	1.10	11.00	0.00	0.00	
12	0.00	0.00	0.00	0.60	0.00	32.00	242.50	33.00	0.70	9.40	0.00	0.00	
13	0.00	0.00	0.00	0.00	0.00	15.00	198.50	0.40	45.00	0.00	0.00	0.00	
14	0.00	0.00	0.00	0.00	0.00	13.00	128.80	0.00	25.00	13.20	0.00	0.00	
15	0.00	0.00	0.00	0.00	0.40	15.50	31.80	19.00	2.00	5.20	0.00	0.00	
16	0.00	0.00	0.00	7.00	5.60	164.00	96.80	25.40	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	0.80	25.00	96.00	90.80	17.00	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	8.60	55.20	121.50	45.60	19.00	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.00	8.00	50.60	128.40	30.00	62.50	10.00	0.00	0.00	0.00	
20	0.00	0.00	0.00	0.00	3.00	81.00	20.20	66.80	45.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	0.00	1.80	16.00	1.40	155.90	5.60	0.40	0.00	0.00	
22	0.00	0.00	0.00	0.00	2.20	5.20	0.00	181.50	35.50	9.80	0.00	0.00	
23	0.00	0.00	0.00	31.60	0.00	17.00	0.64	170.00	0.00	0.00	5.00	0.00	
24	0.00	0.00	0.00	2.80	3.40	7.20	0.00	204.60	5.40	0.00	0.00	0.00	
25	0.00	0.00	0.00	0.00	0.00	14.20	0.00	212.90	53.90	0.00	0.00	0.00	
26	0.00	0.00	0.00	0.00	18.00	12.20	7.00	66.50	5.20	0.00	0.00	0.00	
27	0.00	0.00	0.00	0.00	7.00	32.80	15.40	77.00	3.90	0.00	0.00	0.00	
28	0.00	0.00	0.00	0.00	8.50	39.20	29.00	107.60	3.60	0.00	0.00	0.00	
29	0.00	0.00	0.00	0.00	2.80	30.00	3.40	69.00	8.80	0.00	0.00	0.00	
30	0.00	0.00	0.00	0.00	11.10	39.50	1.60	37.70	6.00	0.00	5.60	0.00	
31	0.00	0.00	0.00	0.00	21.10	1.00	1.00	23.50	0.00	0.00	0.00	0.00	
Total	0.0	0.0	0.0	64.8	287.9	1466.3	1887.8	1915.2	643.5	212.8	10.6	0.0	mm
				Total =	6488.9	mm			Max =	267.0			

Rainfall for the year 2001

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	18.00	0.00	0.00	0.00	0.00	32.80	22.20	4.80	6.80	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	46.00	55.60	0.60	1.20	0.00	0.00
3	0.00	0.00	0.00	0.00	0.60	0.00	105.50	64.50	1.20	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	1.80	111.80	86.00	0.00	4.40	0.00	0.00
5	0.00	0.00	0.00	0.00	1.60	44.20	125.60	50.20	0.00	27.60	15.40	0.00
6	0.00	0.00	0.00	0.00	0.00	25.00	125.60	62.50	0.00	28.40	11.00	0.00
7	0.00	0.00	0.00	0.00	0.00	40.70	166.00	68.00	0.00	36.60	34.80	0.00
8	0.00	0.00	0.00	0.10	0.00	30.00	230.00	26.00	0.20	16.10	8.30	0.00
9	0.00	0.00	0.00	0.20	0.00	27.00	165.90	15.70	1.60	3.60	0.00	0.00
10	0.00	0.00	0.00	17.00	0.00	60.30	217.80	35.20	0.00	18.10	0.00	0.00
11	0.00	0.00	0.00	29.00	0.00	99.00	102.40	25.30	0.00	75.00	0.00	0.00
12	0.00	0.00	0.00	36.40	0.00	141.00	56.00	43.20	0.00	1.70	0.00	0.00
13	0.00	0.00	0.00	1.60	0.00	124.70	62.80	75.30	0.00	1.00	0.00	0.00
14	0.00	0.00	0.00	14.80	0.00	221.00	33.20	78.20	25.30	24.80	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	128.50	21.00	82.28	1.20	4.50	12.00	0.00
16	0.00	0.00	0.00	3.20	0.00	104.00	67.30	70.00	11.50	3.70	36.40	0.00
17	0.00	0.00	0.00	9.80	0.00	47.50	60.00	79.40	0.00	0.80	0.00	0.00
18	0.00	0.00	0.00	2.60	0.00	190.00	32.20	107.90	3.00	0.20	0.00	0.00
19	0.00	0.00	0.00	0.60	0.00	62.50	12.00	37.00	137.00	12.70	0.00	0.00
20	0.00	0.00	0.00	3.20	1.00	32.10	38.40	87.00	27.60	11.00	0.00	0.00
21	0.00	0.00	0.00	1.20	2.20	34.40	34.60	85.50	5.80	0.00	0.00	0.00
22	0.00	0.00	0.00	6.70	1.50	79.60	15.90	45.60	3.40	0.00	3.00	0.00
23	0.00	0.00	0.00	3.00	10.00	58.00	36.20	75.60	39.50	0.00	5.50	0.00
24	0.00	0.00	0.00	0.00	15.00	74.00	54.40	33.70	3.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	23.10	16.50	5.60	26.00	19.00	18.70	0.00	0.00
26	0.00	0.00	0.00	0.00	34.60	31.00	12.00	10.70	10.40	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	19.50	19.80	38.60	16.00	14.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	22.50	24.40	34.30	15.50	10.50	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	12.60	18.50	41.60	15.60	6.70	0.00	0.00	0.00
30	0.00	0.00	0.00	0.40	6.60	14.50	17.50	17.00	2.90	0.00	0.00	0.00
31	0.00	0.00	0.00	0.40	0.40	4.90	4.90	13.80	2.90	0.00	0.00	0.00
Total	0.0	18.0	0.0	129.8	151.2	1750.0	2107.9	1526.5	329.2	296.9	126.4	0.0
				Total =	6435.9	mm			Max =	230.0	mm	

Rainfall for the year 2002

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.00	0.00	0.00	0.00	7.50	39.10	30.00	26.80	10.40	1.00	0.00
2	0.00	0.00	0.00	0.00	0.00	23.60	30.00	38.40	21.20	0.00	0.20	0.00
3	0.00	0.00	0.00	0.00	0.00	25.50	33.80	51.60	22.20	25.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.20	5.80	33.00	49.00	15.00	0.00	0.00	0.00
5	0.00	0.40	0.00	1.00	0.00	1.60	34.00	85.00	53.40	0.00	0.00	0.00
6	0.00	9.00	0.00	2.00	0.00	0.80	6.30	112.20	95.80	0.00	0.00	0.00
7	0.00	11.00	0.00	0.00	0.00	1.00	4.86	64.60	31.30	12.00	0.00	0.00
8	0.60	0.00	0.00	0.40	0.00	23.00	8.00	86.00	57.50	16.00	0.00	0.00
9	0.00	2.20	0.00	0.20	0.00	59.00	38.00	102.60	45.00	10.00	0.00	0.00
10	0.00	0.00	0.00	19.00	0.00	5.40	48.60	120.00	1.00	10.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	3.40	80.00	118.60	11.10	64.80	0.00	0.00
12	0.00	0.00	0.00	5.00	0.00	8.60	105.00	173.40	7.40	77.00	0.00	0.00
13	0.00	0.00	0.00	4.80	1.80	30.00	22.00	168.00	0.00	70.00	0.00	0.00
14	0.00	0.00	0.00	4.68	0.00	67.00	18.00	72.60	17.00	24.80	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	43.60	15.00	72.60	19.50	1.80	0.00	0.00
16	0.00	0.00	0.00	0.00	10.60	29.60	56.00	256.00	2.40	1.80	0.00	0.00
17	0.00	0.00	0.00	0.00	14.20	21.00	9.60	151.40	0.40	10.20	0.00	0.00
18	0.00	0.00	0.00	0.00	14.00	50.00	9.20	204.60	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	13.12	46.80	22.00	105.00	0.00	6.90	0.00	0.00
20	0.00	0.00	0.00	0.00	3.00	74.20	10.00	79.40	0.00	3.90	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	77.40	6.20	43.00	0.00	3.00	0.00	0.00
22	0.00	0.00	0.00	0.00	15.00	103.24	22.00	21.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	4.40	178.80	21.00	21.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	4.40	120.60	7.00	40.60	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	1.20	61.60	15.00	14.80	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	89.42	8.60	6.40	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	4.60	0.00	40.00	16.00	1.40	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	12.00	11.20	0.00	6.20	21.00	0.00	0.00
29	0.00	0.00	0.00	0.00	5.70	7.90	14.20	0.00	1.20	8.80	0.00	0.00
30	0.00	0.00	0.00	0.00	8.00	10.44	12.80	0.00	13.00	2.00	0.00	0.00
31	0.00	0.00	2.00	0.00	1.40	0.00	23.40	0.60	0.00	0.00	0.00	0.00
Total	0.6	22.6	2.0	41.7	97.0	1228.8	779.9	2289.8	447.4	379.4	1.2	0.0

unit : mm

Total = 5290.4 mm

Max = 256.0 mm

Rainfall for the year 2003

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	3.80	0.00	0.00	0.00	0.00	42.20	23.40	38.20	20.40	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	19.60	25.00	12.40	3.80	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	35.90	27.10	34.40	21.60	1.20	0.00
4	0.00	0.00	0.00	0.00	0.00	0.50	70.00	16.00	12.60	22.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.20	6.20	90.00	28.00	37.80	27.20	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	5.00	37.00	80.30	31.20	13.60	1.00	0.00
7	0.00	0.00	0.00	0.00	0.00	4.30	53.80	124.60	21.60	36.80	3.80	0.00
8	0.00	0.00	0.00	0.00	0.00	2.80	43.00	37.60	23.20	8.90	9.30	0.00
9	0.00	0.00	0.00	0.20	0.00	7.60	27.70	33.30	9.20	4.00	4.20	0.00
10	0.00	0.00	0.00	3.40	0.00	13.10	45.60	12.40	3.60	1.10	0.00	0.00
11	0.00	0.00	0.00	5.80	0.00	24.40	16.00	7.70	2.00	15.00	0.00	0.00
12	0.00	0.00	0.00	12.60	0.00	49.40	28.00	16.00	5.00	0.50	0.00	0.00
13	0.00	0.00	5.30	5.20	0.00	24.10	42.00	25.50	6.20	0.20	0.00	0.00
14	0.00	0.00	0.70	0.00	0.00	66.60	67.00	30.00	24.60	3.20	0.00	0.00
15	0.00	8.20	0.00	0.00	0.00	49.50	71.60	41.00	33.40	0.90	2.40	0.00
16	0.00	0.00	0.00	1.60	0.00	47.80	149.70	20.60	16.50	1.50	5.00	0.00
17	0.00	0.00	0.00	0.60	0.00	47.50	90.60	27.60	8.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	86.20	20.00	35.30	16.00	19.70	0.00	0.00
19	0.00	0.00	0.00	0.60	0.00	157.10	8.60	16.60	27.40	8.50	0.00	0.00
20	0.00	0.00	12.00	1.60	0.40	85.40	7.40	240.80	2.80	11.00	0.00	0.00
21	0.00	0.00	3.80	1.50	0.80	86.40	14.00	85.50	0.80	18.40	0.00	0.00
22	0.00	0.00	0.00	5.00	0.30	157.50	38.70	107.00	0.00	13.80	0.60	0.00
23	0.00	0.00	0.00	0.00	2.00	43.90	85.40	85.40	22.30	8.10	1.10	0.00
24	0.00	0.00	0.00	0.00	3.00	27.60	98.20	39.50	1.20	2.00	0.00	0.00
25	0.00	0.00	0.00	0.00	3.10	16.50	99.80	71.80	5.00	1.50	0.00	0.00
26	0.00	0.00	0.00	0.00	4.80	18.40	94.80	20.30	4.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	3.90	24.80	150.60	48.00	3.30	0.00	0.00	0.00
28	0.00	0.00	19.00	0.00	4.50	11.00	114.10	28.30	8.10	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	1.60	25.50	14.40	32.92	0.90	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.40	18.90	9.50	17.40	2.30	2.20	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	6.80	6.80	20.00	0.00	0.00	0.00	0.00
Total	0.0	12.0	40.8	38.1	25.0	1108.0	1692.0	1424.9	414.0	265.9	28.6	0.0
	Total = 5049.3 mm											
	Max = 240.8 mm											

STATION:KT

TALUK :Sakaleshpur

DISTRICT :Hassan

Rainfall for the year 1988

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.00	0.00	0.00	0.00	6.64	50.60	82.00	16.00	27.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.12	16.60	17.26	207.00	40.00	56.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.84	3.84	3.68	255.00	40.80	17.00	0.00	0.00
4	0.00	0.00	0.00	0.00	2.48	2.60	7.78	189.00	6.16	5.36	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	11.32	3.80	38.00	0.30	32.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	4.50	9.20	4.00	35.40	16.00	0.14	0.00
7	0.00	0.00	0.00	0.00	2.50	12.00	4.88	1.76	20.40	8.02	6.50	0.00
8	0.00	0.00	0.00	1.18	0.00	23.50	43.50	36.00	20.90	0.20	0.00	0.00
9	0.00	0.00	0.00	0.00	0.36	34.50	5.14	18.00	58.10	11.22	0.00	0.00
10	0.00	0.00	0.00	19.70	0.00	47.00	67.00	8.00	9.64	9.00	0.00	0.00
11	0.00	0.00	0.00	1.06	0.24	22.00	16.00	2.70	8.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	22.00	40.00	2.44	2.00	0.00	0.00	1.22
13	0.00	0.00	0.00	1.00	0.00	34.00	67.50	5.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	15.40	0.00	18.00	109.40	19.30	21.00	0.00	0.00	46.00
15	0.00	0.00	0.00	1.68	0.00	24.00	121.64	25.30	13.40	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	40.00	184.00	70.00	24.28	0.00	0.00	0.00
17	0.00	0.00	0.00	12.00	0.00	15.00	258.00	68.00	30.00	0.00	0.00	0.00
18	0.00	0.00	0.00	2.24	0.00	12.00	167.00	53.00	38.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	24.50	193.50	199.00	39.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	17.38	130.00	67.20	61.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	12.00	67.50	15.00	31.70	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	36.00	54.00	12.54	31.00	0.00	0.00	0.00
23	0.00	0.00	0.00	2.00	0.00	71.24	58.50	19.00	82.00	1.00	0.00	0.00
24	0.00	0.00	0.00	25.00	9.44	59.90	10.94	43.10	25.00	0.00	0.00	0.00
25	0.00	0.00	0.00	7.30	0.00	29.00	15.20	3.74	30.00	0.00	0.00	0.00
26	0.00	0.00	0.00	27.50	0.20	19.00	35.10	6.00	22.00	1.60	0.00	0.00
27	0.00	0.00	0.00	11.70	0.50	20.00	53.40	45.00	23.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	2.84	17.60	122.00	15.00	5.64	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.94	2.80	118.22	31.00	16.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	1.40	5.20	52.70	17.50	3.60	3.08	0.00	0.00
31	0.00	0.00	0.00	0.00	0.42	26.64	26.64	14.00	0.00	0.00	0.00	0.00
Total	0.0	0.0	0.0	127.8	22.3	664.1	2114.1	1572.6	754.3	187.5	6.6	47.2
	Total = 5496.5 mm											
	Max = 258.0 mm											

Rainfall for the year 1989

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	unit :
1	0.00	0.00	0.00	2.44	0.00	16.00	36.00	9.40	38.00	0.00	0.00	0.00	mm
2	0.00	0.00	0.00	0.00	0.00	1.02	22.00	4.90	0.00	2.00	0.00	0.00	
3	0.00	0.00	0.00	0.30	0.00	0.60	2.76	6.30	3.14	3.54	0.00	0.00	
4	0.00	0.00	0.00	0.00	30.00	0.00	0.00	47.00	2.96	2.00	0.00	0.00	
5	0.00	0.00	0.00	0.76	0.00	18.50	0.00	115.00	0.00	37.00	0.00	0.00	
6	0.00	0.00	0.00	0.00	0.00	82.00	7.08	65.00	6.40	0.58	0.00	0.00	
7	0.00	0.00	0.00	0.00	0.86	67.00	9.54	26.00	7.50	12.50	0.00	0.00	
8	0.00	0.00	0.00	0.00	10.00	118.00	16.00	21.00	0.00	0.20	0.00	0.00	
9	0.00	0.00	0.00	0.00	0.10	44.00	2.00	8.18	5.80	0.00	0.00	0.00	
10	0.00	0.00	0.56	0.00	0.86	55.00	0.30	14.80	0.56	14.00	1.00	0.00	
11	0.00	0.00	0.00	0.00	0.24	83.00	19.42	39.00	8.00	0.84	0.00	0.00	
12	0.00	0.00	0.00	0.00	0.56	117.50	40.00	75.00	39.00	0.00	0.00	0.00	
13	0.00	0.00	5.52	0.00	0.00	65.00	25.64	44.00	10.24	0.00	14.00	0.00	
14	0.00	0.00	1.90	0.00	0.00	36.20	7.00	44.50	14.32	0.00	0.00	0.00	
15	0.00	0.00	0.00	0.00	0.00	67.00	5.00	32.30	44.62	0.00	0.00	0.00	
16	0.00	0.00	0.00	0.00	0.20	28.50	63.00	49.40	0.40	2.26	0.00	0.00	
17	0.00	0.00	0.00	0.00	0.00	41.00	104.00	140.60	2.52	0.00	0.00	0.00	
18	0.00	0.00	0.00	0.00	0.14	17.50	97.00	79.00	6.46	5.20	0.00	0.00	
19	0.00	0.00	0.00	0.54	0.00	19.00	94.00	50.00	5.00	0.60	0.00	0.00	
20	0.00	0.00	0.00	0.20	0.00	12.00	77.00	34.00	13.76	2.10	0.00	0.00	
21	0.00	0.00	0.00	0.00	0.10	29.00	124.00	3.50	13.08	0.00	0.00	0.00	
22	0.00	0.00	0.00	3.00	0.16	58.00	214.00	43.00	2.66	0.00	0.00	0.00	
23	0.00	0.00	1.24	0.00	0.00	18.50	179.84	72.60	7.00	0.00	0.00	0.00	
24	0.00	0.00	0.00	27.00	0.00	15.00	217.00	60.00	2.92	0.00	0.00	0.00	
25	0.00	0.00	0.00	0.00	2.38	41.00	150.00	63.00	5.90	0.00	0.00	0.00	
26	0.00	0.00	0.00	10.16	0.00	38.00	114.00	44.00	12.00	0.00	0.00	0.00	
27	0.00	0.00	0.00	1.00	0.00	17.96	65.00	50.00	43.50	0.00	0.00	0.00	
28	0.00	0.00	0.00	0.00	0.00	84.00	10.00	11.00	56.50	0.40	0.00	0.00	
29	0.00	0.00	0.00	0.00	0.00	82.20	19.94	11.00	8.00	0.08	0.00	0.00	
30	0.00	0.00	0.00	0.00	0.00	167.00	0.30	26.00	4.00	15.00	0.00	0.00	
31	0.00	0.00	0.00	0.00	1.10	0.00	0.00	40.00	0.00	0.00	0.00	0.00	
Total	0.0	0.0	9.2	45.4	46.7	1439.5	1721.8	1329.5	364.2	98.3	15.0	0.0	
				Total =	5069.6	mm			Max =	217.0	mm		

Rainfall for the year 1990

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.00	0.00	0.00	0.00	20.64	164.00	39.00	9.06	36.50	0.00	0.00
2	22.00	0.00	0.00	0.00	0.00	47.50	242.00	57.30	8.00	13.50	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	12.00	90.00	17.80	22.50	8.44	0.20	0.00
4	0.00	0.00	0.00	0.00	0.00	2.24	49.00	14.00	43.00	10.00	0.00	0.00
5	0.00	0.00	0.00	0.00	6.98	4.00	19.00	3.80	86.00	1.00	0.00	0.00
6	0.00	0.00	0.00	0.00	2.60	24.50	29.28	10.00	81.00	3.00	0.00	0.00
7	0.00	0.00	0.00	3.50	0.00	7.50	56.00	6.88	15.00	0.44	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	5.50	26.50	27.50	11.14	15.00	0.00	0.00
9	0.00	0.00	0.00	0.00	11.38	24.28	37.00	36.00	1.14	0.00	0.20	0.00
10	0.00	0.00	0.00	0.00	4.70	28.24	44.00	75.00	12.52	0.00	2.82	0.00
11	0.00	0.00	0.00	0.00	25.44	67.00	66.00	94.00	40.50	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	42.00	21.56	92.20	47.00	0.12	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	16.28	14.00	192.80	36.00	9.50	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	13.24	51.00	198.00	19.50	6.60	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	43.00	64.00	177.50	0.00	11.00	0.84	0.00
16	0.00	0.00	0.00	0.00	0.00	95.00	90.00	182.50	0.00	0.00	0.60	0.00
17	0.00	0.00	0.00	0.00	2.00	115.00	126.00	98.00	0.00	3.76	0.96	0.00
18	0.00	0.00	0.00	0.00	1.00	105.00	175.00	112.00	0.00	0.20	0.00	0.00
19	0.00	0.00	0.00	0.00	55.00	160.00	46.00	177.60	0.00	2.70	0.00	0.00
20	0.00	0.00	0.00	0.00	34.00	34.00	52.00	138.50	24.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	12.00	30.50	31.60	110.00	11.56	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	25.00	50.00	31.00	121.00	0.76	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	5.56	40.50	58.00	98.00	22.94	36.00	0.00	0.00
24	0.00	0.00	0.00	0.30	14.40	22.00	88.00	73.00	1.42	23.08	0.00	0.00
25	0.00	0.00	0.00	0.00	2.40	48.00	48.00	17.38	2.86	2.20	0.00	0.00
26	0.00	0.00	0.00	0.00	8.00	151.00	20.36	18.00	1.96	30.50	4.00	0.00
27	0.00	0.00	0.00	0.00	40.44	91.00	15.00	6.06	5.96	39.00	0.00	0.00
28	0.00	0.00	0.00	0.00	40.00	64.00	24.00	40.00	1.00	30.00	0.00	0.00
29	0.00	0.00	0.00	0.00	20.00	84.00	18.00	69.50	2.68	15.80	0.00	0.00
30	0.00	0.00	0.00	0.00	25.00	49.00	45.00	75.00	1.96	10.00	0.00	0.00
31	0.00	0.00	0.00	0.00	27.00	62.40	62.40	43.00	8.00	8.00	0.00	0.26
Total	22.0	0.0	0.0	3.8	362.9	1496.9	1903.7	2421.3	509.5	316.3	9.6	0.3

unit: mm

Max =

mm

Total =

7046.3

Rainfall for the year 1991

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.00	0.00	0.00	0.00	0.40	36.40	61.00	1.22	0.00	0.00	0.00
2	0.00	0.00	0.00	21.08	0.00	24.00	12.00	11.00	0.00	2.00	0.50	0.00
3	0.00	0.00	0.00	0.00	0.00	19.50	12.00	17.84	0.00	6.88	28.30	0.00
4	0.00	0.00	0.00	7.28	4.92	72.40	43.00	9.00	0.00	6.00	11.76	0.00
5	0.00	0.00	0.00	0.00	5.20	50.00	87.00	6.86	0.00	42.00	14.16	0.00
6	0.00	0.00	0.00	1.02	0.00	98.50	81.00	16.20	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	174.00	43.00	43.60	0.20	0.84	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	148.50	80.00	62.56	19.60	4.76	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	174.00	54.40	61.50	0.00	11.86	0.00	0.00
10	0.00	0.00	0.20	37.00	0.00	378.00	61.80	53.50	0.00	5.56	0.00	0.00
11	0.00	0.00	0.00	31.50	2.12	121.96	54.80	43.50	0.00	1.38	0.00	0.00
12	0.00	0.00	0.00	0.00	0.44	73.00	116.80	57.00	6.00	8.96	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	5.70	68.20	123.50	0.60	2.70	0.00	0.00
14	0.00	0.00	0.00	0.48	24.00	5.32	71.80	139.00	27.20	0.00	0.00	0.00
15	0.00	0.00	1.00	2.50	1.92	13.54	161.00	89.00	8.00	0.00	0.40	0.00
16	0.00	0.00	0.00	0.00	0.00	52.98	106.40	64.50	1.00	18.00	0.82	0.00
17	0.00	0.00	0.00	0.00	0.00	35.00	79.00	45.00	0.00	37.08	6.00	0.00
18	0.00	0.00	0.00	1.36	0.00	13.00	63.72	55.00	0.00	3.28	0.00	0.00
19	0.00	0.00	0.00	0.64	0.00	72.00	72.50	12.00	0.00	3.50	0.00	0.00
20	0.00	0.00	0.00	0.00	4.00	117.00	91.00	38.78	0.20	0.00	0.00	12.00
21	0.00	0.00	0.00	6.50	10.12	5.80	104.50	47.00	20.00	5.68	0.00	0.00
22	0.00	0.00	0.00	3.50	2.48	11.52	69.00	41.00	18.00	1.30	0.00	0.00
23	0.00	0.00	0.00	24.80	32.64	12.00	75.00	49.00	23.00	3.14	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	18.40	105.50	46.00	5.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.10	39.94	64.00	130.42	44.00	8.20	0.00	0.00	0.00
26	0.00	0.00	0.00	0.90	0.00	42.00	303.50	9.76	1.20	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	18.00	92.00	368.00	9.00	6.40	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	6.00	34.00	228.40	7.00	18.50	4.76	0.00	0.00
29	0.00	0.00	0.00	0.00	13.56	7.00	188.00	14.80	1.24	27.00	0.00	0.00
30	0.00	0.00	0.00	0.00	6.88	58.00	141.00	2.00	0.00	5.84	0.00	0.00
31	0.00	0.00	0.00	0.00	0.28	0.00	110.00	7.00	0.00	0.60	0.00	0.00
Total	0.0	0.0	1.2	138.7	172.5	1993.5	3219.1	1286.9	165.6	203.1	61.9	12.0

Total = 7254.5 mm
Max = 378.0 mm

Rainfall for the year 1992

unit: mm

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.00	0.00	0.00	1.80	0.20	20.00	26.00	24.50	20.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.60	45.50	1.80	44.00	49.00	17.50	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.60	30.00	106.50	23.80	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	27.10	0.00	13.96	65.00	77.00	0.00	0.00
5	0.00	0.00	0.00	0.00	13.20	21.00	2.00	3.00	68.00	122.00	0.00	0.00
6	0.00	0.00	0.00	0.00	1.00	0.00	11.52	1.44	113.00	2.16	0.00	0.00
7	0.00	0.00	0.00	0.00	1.16	5.50	20.00	11.00	115.00	10.80	0.00	0.00
8	0.00	0.00	0.00	16.50	1.14	1.60	17.00	11.00	54.80	5.00	11.00	0.00
9	0.00	0.00	0.00	0.00	1.08	0.40	9.44	60.00	32.94	3.00	8.00	0.00
10	0.00	0.00	0.00	0.00	2.54	0.00	7.00	75.00	6.50	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	7.50	7.52	41.00	120.00	0.80	3.00	0.00	0.00
12	0.00	0.00	0.00	0.00	8.00	18.94	39.50	219.00	0.58	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.40	56.00	41.50	175.00	0.00	1.18	0.00	0.00
14	0.00	0.00	0.00	0.00	15.50	9.20	30.00	130.00	0.00	4.20	7.18	0.00
15	0.00	0.00	0.00	0.00	6.80	80.00	42.00	109.00	0.60	44.00	90.00	0.00
16	0.00	0.00	0.00	0.00	0.00	99.00	105.00	201.00	0.00	0.20	71.00	0.00
17	0.00	0.00	0.00	0.00	17.00	109.00	154.50	155.00	4.00	0.00	25.50	0.00
18	0.00	0.00	0.00	0.32	3.00	305.00	70.00	129.00	2.00	0.00	3.00	0.00
19	0.00	0.00	0.00	1.26	0.00	321.00	119.00	99.50	32.76	0.00	0.00	0.00
20	0.00	0.00	0.00	0.20	0.00	222.50	202.00	119.00	60.00	0.00	39.00	0.00
21	0.00	0.00	0.00	0.00	0.00	180.92	45.00	40.00	2.76	0.00	20.80	0.00
22	0.00	0.00	0.00	0.00	0.00	107.00	56.00	58.00	1.22	0.00	1.00	0.00
23	0.00	0.00	0.00	12.00	0.60	115.00	57.00	6.50	15.00	1.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	28.72	139.00	13.92	5.34	0.00	0.00	0.00
25	0.00	0.00	0.00	8.26	0.00	23.30	80.00	25.08	0.00	4.80	0.00	0.00
26	0.00	0.00	0.00	14.80	0.00	86.00	256.30	38.00	20.20	0.00	0.00	0.00
27	0.00	0.00	0.00	0.20	0.00	133.00	114.50	38.00	13.00	0.40	0.00	0.00
28	0.00	0.00	0.00	0.00	15.08	52.00	128.50	66.00	65.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	48.00	79.00	47.00	24.06	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	69.00	64.00	23.00	1.50	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	11.00	11.00	25.00	0.00	0.00	0.00	0.00
Total	0.0	0.0	0.0	53.5	96.4	2172.4	1964.2	2112.4	884.1	340.0	276.5	0.0
				Total =	7899.5	mm			Max =	321.0	mm	

Rainfall for the year 1993

Date	unit : mm											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.00	0.00	0.00	0.00	1.00	70.74	184.00	12.04	2.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.40	126.00	86.00	11.00	34.50	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	4.00	111.00	129.50	25.00	15.50	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	2.32	28.06	23.00	24.80	9.64	1.50	0.00
5	0.00	0.00	0.00	0.00	0.00	13.52	35.50	10.00	38.00	2.32	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.40	5.94	3.54	21.00	4.08	0.00	0.20
7	0.00	0.00	0.00	0.00	0.00	4.00	30.50	22.70	25.00	1.60	0.00	17.04
8	0.00	0.00	0.00	0.00	23.44	10.00	36.00	23.00	8.64	2.24	0.40	6.20
9	0.00	0.00	0.00	0.00	0.72	22.00	116.00	47.00	4.20	15.00	2.10	0.00
10	0.00	0.00	0.00	18.50	0.00	29.00	80.00	49.00	0.50	12.00	8.00	0.00
11	0.00	0.00	0.00	0.00	0.00	68.00	139.00	93.00	8.00	4.70	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	62.50	92.00	85.00	5.28	4.44	1.80	0.00
13	0.00	0.00	0.00	0.00	0.00	50.50	179.00	67.00	10.48	21.60	0.00	0.00
14	0.00	0.00	0.00	0.00	23.50	61.00	170.00	149.20	4.90	11.00	0.00	0.00
15	0.00	0.00	0.00	0.20	4.22	66.00	106.00	177.00	11.48	15.56	0.00	0.00
16	0.00	0.00	0.00	0.00	1.74	93.20	95.00	144.00	0.16	2.80	3.12	0.00
17	0.00	0.00	0.00	12.50	23.88	106.28	11.00	47.60	0.18	1.20	0.00	0.00
18	0.00	0.00	0.00	44.00	0.00	129.00	7.24	27.24	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	2.66	12.50	72.00	2.42	24.00	0.66	40.00	0.00	0.00
20	0.00	0.00	0.00	0.00	5.02	18.36	3.48	92.00	0.00	29.10	0.00	0.00
21	0.00	0.00	0.00	2.52	19.18	10.00	10.00	28.50	0.00	17.00	0.00	0.00
22	0.00	0.00	0.00	4.80	17.70	20.00	15.00	30.00	1.80	8.64	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	2.00	17.50	22.00	21.40	3.00	0.00	0.00
24	0.00	0.00	0.00	1.08	0.00	0.96	25.00	39.00	6.50	0.00	0.00	0.00
25	0.00	0.00	0.00	5.00	0.00	14.50	63.50	40.88	0.68	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	2.20	28.48	44.00	63.80	4.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.60	0.00	10.84	72.50	9.00	3.34	0.00	0.00	0.00
28	0.00	0.00	0.00	3.20	2.24	7.22	95.00	8.64	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	3.30	0.00	8.00	214.00	49.00	0.00	1.26	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	36.24	144.50	52.50	2.20	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	157.00	157.00	19.38	0.00	0.00	0.00	0.00
Total	0.0	0.0	0.0	98.4	136.3	951.7	2302.9	1846.5	251.2	259.2	16.9	23.4
	Total = 5886.6 mm											
	Max = 214.0 mm											

Rainfall for the year 1994

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.00	0.00	0.00	0.00	1.00	78.00	133.00	142.00	19.60	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	18.26	91.00	86.92	113.00	9.30	5.80	0.00
3	0.00	0.00	0.00	5.88	0.00	33.40	14.00	61.00	83.00	27.00	3.20	0.00
4	0.00	0.00	0.00	0.00	0.00	150.00	14.00	30.00	62.00	19.00	1.88	0.00
5	0.00	0.00	0.00	9.00	20.76	76.00	46.20	7.52	79.00	25.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.40	41.00	10.00	9.00	62.00	30.80	0.00	0.00
7	0.00	0.00	0.00	0.00	0.08	17.00	14.00	7.52	14.00	3.26	0.00	0.00
8	0.00	0.00	0.00	0.00	1.60	43.36	41.00	0.64	6.40	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	22.00	111.00	3.34	10.08	17.32	0.00	0.00
10	0.00	0.00	0.00	21.00	0.00	42.00	145.00	24.20	4.64	19.08	0.00	0.00
11	0.00	0.00	0.00	36.40	0.00	114.00	293.00	40.00	0.00	0.28	0.00	0.00
12	0.00	0.00	0.00	0.84	0.00	137.00	350.00	35.76	0.52	31.00	0.00	0.00
13	0.00	0.00	0.00	0.40	0.00	158.00	250.00	2.68	0.44	23.40	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	144.00	260.00	2.64	5.60	11.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	120.00	160.00	2.00	1.00	16.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	67.00	148.00	31.00	0.00	18.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	51.00	61.00	49.00	0.00	0.00	0.00	0.00
18	13.00	0.00	0.00	0.00	0.00	65.00	86.00	80.00	0.60	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	85.00	149.00	50.00	0.00	2.10	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	22.00	173.00	28.16	0.00	2.80	0.00	0.00
21	0.00	0.00	0.00	0.00	0.68	3.00	170.00	31.00	0.00	0.10	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	26.00	81.00	20.00	0.00	5.04	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	19.20	111.00	79.00	0.00	17.60	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	94.00	106.00	51.00	0.00	24.02	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	81.00	100.00	40.40	0.00	5.26	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	126.00	85.00	122.00	2.56	35.00	0.00	0.00
27	0.00	0.00	0.00	0.00	7.66	107.00	100.00	93.00	2.30	26.40	0.00	0.00
28	0.00	0.00	0.00	0.00	44.00	181.00	68.00	90.00	16.98	4.52	0.00	0.00
29	0.00	0.00	0.00	0.00	0.40	155.00	104.00	87.20	5.68	6.84	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	95.40	90.00	112.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	86.20	86.20	135.00	0.00	0.00	0.00	0.00
Total	13.0	0.0	0.0	73.5	75.6	2294.6	3595.4	1545.0	611.8	399.7	10.9	0.0

unit: mm

Max =

mm

8619.5

Total =

350.0

Rainfall for the year 1995

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.00	0.00	0.00	0.00	0.00	65.00	15.00	179.00	5.20	0.00	0.00
2	0.00	0.00	0.00	0.00	0.40	0.00	60.00	80.00	255.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	23.00	120.00	188.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	4.60	2.24	6.16	45.00	104.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	16.00	0.00	23.80	12.94	56.08	2.04	21.96	0.00
6	0.00	0.00	0.00	26.10	10.20	0.00	50.00	12.00	50.00	3.96	3.36	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	23.00	80.00	28.00	6.26	0.00	0.00
8	0.00	0.00	0.00	0.00	6.52	0.00	22.00	80.00	15.00	0.12	0.00	0.00
9	0.00	0.00	0.00	0.00	2.16	7.36	56.22	18.92	7.04	5.56	0.00	0.00
10	0.00	0.00	0.00	0.00	7.00	16.92	165.00	0.20	0.00	37.00	0.00	0.00
11	0.00	0.00	0.00	0.00	14.00	75.00	172.00	14.00	0.00	1.48	0.00	0.00
12	0.00	0.00	0.00	0.00	53.00	84.00	174.00	8.00	4.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	29.00	89.00	92.14	14.00	2.10	0.60	0.00	0.00
14	0.00	0.00	0.00	0.00	90.00	32.00	56.00	9.54	45.34	3.00	0.00	0.00
15	0.00	0.00	0.00	0.00	1.46	7.14	56.00	5.00	39.00	0.00	0.00	0.00
16	0.00	0.00	0.00	1.30	3.00	12.00	208.00	32.00	17.00	0.00	0.00	0.00
17	0.00	0.00	0.00	16.90	0.00	6.00	35.00	25.00	34.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	9.00	113.00	1.30	14.00	19.36	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	4.42	200.00	21.40	5.58	0.20	0.00	0.00
20	0.00	0.00	0.00	24.80	0.00	8.10	84.00	26.44	0.00	0.20	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	9.00	118.00	0.40	16.00	0.00	0.00	0.00
22	0.00	0.00	0.00	1.40	0.00	5.56	30.00	0.00	0.20	0.00	0.00	0.00
23	0.00	0.00	0.00	18.00	0.00	6.00	28.00	26.00	0.00	6.20	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	4.00	18.00	2.10	0.00	14.70	4.00	0.00
25	0.00	0.00	0.00	0.00	7.06	18.00	17.24	12.00	1.70	2.48	19.60	0.00
26	0.00	0.00	0.00	0.00	0.00	51.40	68.70	108.00	0.00	1.60	0.00	0.00
27	0.00	0.00	0.00	0.00	7.42	41.00	41.00	17.20	0.00	15.16	0.00	0.00
28	0.00	0.00	0.00	0.00	1.00	69.00	3.00	115.00	1.20	0.60	0.00	0.00
29	0.00	0.00	0.00	18.00	2.60	70.00	8.00	136.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	5.32	19.20	79.00	47.00	209.00	5.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	12.00	39.00	39.00	150.20	8.00	8.00	0.00	0.00
Total	0.0	0.0	0.0	111.8	286.6	706.1	2102.3	1396.6	1067.2	133.7	48.9	0.0

unit : mm

Total = 5853.4 mm

Max = 255.0 mm

Rainfall for the year 1996

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.00	0.00	0.00	0.00	4.24	0.00	140.00	2.34	15.20	0.00	0.00
2	0.00	0.00	0.00	1.04	0.00	2.00	0.20	31.00	2.60	91.40	43.00	0.00
3	0.00	0.00	0.00	14.00	0.00	9.00	3.10	57.00	6.00	42.60	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.50	51.00	12.40	1.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.60	29.00	8.80	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	14.00	122.00	6.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.80	0.60	37.00	4.60	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	4.10	2.64	20.00	7.92	0.00	0.00	1.00
9	0.00	0.00	0.00	0.00	0.00	8.00	0.00	99.00	6.10	18.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	2.30	31.00	25.00	12.46	12.00	0.00	0.40
11	0.00	0.00	0.00	12.00	0.00	1.16	33.40	15.00	20.60	1.90	0.00	0.00
12	0.00	0.00	0.00	0.60	0.00	30.60	83.00	25.00	23.20	3.00	1.20	0.00
13	0.00	0.00	0.00	12.00	0.00	115.00	18.80	36.00	42.00	8.70	2.20	0.00
14	0.00	0.00	0.00	0.40	0.00	339.00	62.00	25.00	3.00	10.40	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	116.00	71.16	25.00	16.30	0.00	0.00	5.82
16	0.00	0.00	0.00	3.22	0.00	136.00	97.00	17.00	12.00	8.20	0.00	33.44
17	0.00	0.00	0.00	0.00	0.00	243.00	150.00	14.00	19.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	132.00	156.00	55.00	7.00	2.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	88.60	102.80	18.00	14.00	16.00	0.00	0.00
20	0.00	0.00	0.00	0.00	2.60	52.60	161.50	1.00	15.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	39.00	153.00	6.80	3.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	13.46	272.60	5.20	0.00	0.00	4.28	0.00
23	0.00	0.00	0.00	3.24	4.20	35.00	288.00	11.00	31.40	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	3.96	175.00	71.00	1.46	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.40	170.00	64.00	7.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	1.80	0.00	146.00	25.50	7.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	1.20	180.00	50.00	29.40	2.00	0.00	0.00
28	0.00	0.00	0.00	0.00	10.00	0.00	101.00	88.76	91.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	5.60	100.00	64.00	17.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	6.50	6.78	77.90	4.20	1.60	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	103.00	103.00	0.40	9.00	9.00	0.00	0.00
Total	0.0	0.0	0.0	46.5	25.1	1389.8	2754.8	1232.9	430.2	241.4	50.7	40.7
				Total =	6212.0	mm			Max =	339.0	mm	

Rainfall for the year 1997

Date	unit: mm											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.00	0.00	0.50	4.00	0.00	103.00	293.00	0.40	20.00	0.00	0.00
2	0.00	0.00	0.00	0.00	79.00	0.00	93.00	96.00	22.00	11.20	0.00	0.00
3	0.00	0.00	0.00	0.00	0.40	0.00	65.00	119.00	15.50	6.20	4.00	0.00
4	0.00	0.00	0.00	0.00	0.70	0.00	88.20	30.20	2.20	0.00	1.40	0.00
5	0.00	0.00	0.00	0.00	0.00	38.00	79.00	127.00	2.90	1.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	112.00	250.00	3.60	3.20	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	4.80	76.00	254.00	77.40	5.20	0.00	0.00
8	0.00	0.00	0.00	18.00	0.00	0.00	150.00	52.00	9.20	0.00	0.00	19.00
9	0.00	0.00	0.00	0.00	0.00	4.40	250.00	28.00	5.00	0.00	0.00	1.00
10	0.00	0.00	0.00	0.00	0.00	17.80	116.00	24.00	21.00	0.00	1.20	0.00
11	0.00	0.00	0.00	0.00	11.00	17.90	46.80	6.90	32.30	0.20	5.20	0.00
12	0.40	0.00	0.00	0.00	0.00	29.00	48.40	21.00	0.40	0.00	4.40	0.00
13	0.00	0.00	0.00	0.00	8.70	6.46	100.00	1.60	0.40	0.00	7.00	1.00
14	0.00	0.00	0.00	0.00	0.00	5.00	92.00	0.40	0.00	0.00	7.40	0.00
15	2.30	0.00	17.00	0.00	0.00	9.40	75.00	3.00	208.00	4.20	0.00	0.00
16	0.00	0.00	0.00	0.00	0.46	9.00	81.00	4.40	13.40	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	21.00	80.00	50.00	109.80	0.00	3.00	0.00
18	0.00	0.00	0.00	0.00	0.00	13.20	62.60	21.00	143.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	17.40	101.50	54.00	34.00	0.00	0.80	0.00
20	0.00	0.00	17.00	24.30	0.00	16.50	6.20	111.00	16.20	0.00	0.00	0.00
21	0.00	0.00	0.00	15.80	0.00	6.00	15.00	200.00	15.00	0.00	0.00	0.00
22	0.00	0.00	34.00	0.00	0.40	4.60	19.00	245.00	12.00	12.80	5.00	0.00
23	0.00	0.00	32.00	0.00	0.00	67.00	30.60	202.00	0.40	1.60	72.00	0.00
24	0.00	0.00	3.60	0.00	4.78	141.80	84.00	59.20	3.60	0.00	0.40	0.00
25	0.00	0.00	0.00	0.00	0.00	117.00	159.00	125.00	7.50	36.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	94.90	137.00	79.00	2.00	8.00	8.50	0.00
27	0.00	0.00	0.00	0.00	0.00	110.00	111.00	68.80	4.20	0.00	0.20	0.00
28	0.00	0.00	0.00	0.00	0.00	232.00	69.40	30.00	6.00	10.00	0.00	0.00
29	0.00	0.00	11.00	0.00	0.00	171.80	203.00	69.00	1.20	1.60	0.00	0.00
30	0.00	0.00	3.00	4.76	0.00	150.00	239.60	34.00	36.60	3.80	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00	318.00	6.00	19.60	0.00	0.00	0.00
Total	2.7	0.0	117.6	63.4	109.4	1305.0	3211.3	2664.5	805.2	144.6	120.5	21.0
	Total = 8565.2 mm											
	Max = 318.0 mm											

Rainfall for the year 1998

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.00	0.00	9.80	0.80	0.00	275.00	40.00	44.80	3.40	6.00	0.00
2	0.00	0.00	0.00	0.00	0.70	0.00	200.00	3.00	18.60	3.40	10.00	0.00
3	0.00	0.00	0.00	0.00	4.00	0.00	158.00	27.00	25.00	34.00	3.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	145.00	50.20	31.00	33.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	136.00	15.00	20.00	12.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	94.00	25.20	9.80	0.00	6.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	93.00	26.00	15.00	0.00	5.00	0.00
8	0.00	0.00	0.00	0.00	0.00	41.00	190.00	68.00	65.00	0.00	53.90	0.00
9	0.00	0.00	0.00	0.00	0.00	84.00	199.00	123.00	100.00	2.40	21.30	0.00
10	0.00	0.00	0.00	8.86	0.00	40.00	71.00	139.00	17.00	18.80	0.00	2.00
11	0.00	0.00	0.00	0.00	27.00	27.00	98.00	139.00	88.00	20.00	0.00	0.00
12	0.00	0.00	0.00	0.00	1.60	15.00	59.00	40.00	144.00	22.00	5.00	0.00
13	0.00	0.00	0.00	0.00	7.00	17.00	32.90	32.00	85.00	12.90	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	35.00	31.00	2.00	119.00	37.40	0.00	0.00
15	0.00	0.00	0.00	0.00	17.60	19.96	0.80	0.00	85.00	50.00	0.00	0.00
16	0.00	0.00	0.00	0.00	1.20	44.00	40.00	0.40	25.00	59.50	31.00	18.00
17	0.00	0.00	0.00	0.00	0.00	27.90	6.16	2.30	14.40	53.10	2.00	0.00
18	0.00	0.00	0.00	0.00	0.00	17.00	7.00	30.60	2.70	25.40	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	62.00	5.00	30.00	0.20	5.60	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	100.16	16.00	31.00	18.00	0.00	4.00	0.00
21	0.00	0.00	0.00	1.40	0.00	81.00	6.00	12.00	5.20	0.00	23.00	0.00
22	0.00	0.00	0.00	0.00	0.00	105.00	7.80	0.10	25.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	102.00	20.00	9.00	17.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	104.00	62.00	45.20	6.20	0.00	0.00	0.00
25	0.00	0.00	0.00	45.00	0.80	104.80	79.00	116.00	25.40	0.00	0.60	0.00
26	0.00	0.00	0.00	0.00	24.20	83.00	31.00	50.00	1.00	0.00	0.00	0.00
27	0.00	0.00	4.00	0.00	0.60	110.00	45.00	64.60	2.00	27.60	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	195.00	133.20	20.00	59.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	144.00	250.00	6.40	25.00	0.00	0.00	0.00
30	0.00	0.00	0.00	24.30	0.00	318.00	150.00	3.10	16.40	8.28	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	79.00	79.00	5.00	0.00	0.00	0.00	0.00
Total	0.0	0.0	4.0	89.4	85.5	1876.8	2719.9	1155.1	1109.7	428.8	170.8	20.0
				Total =	7659.9	mm			Max =	318.0	mm	

Rainfall for the year 1999

Date	unit: mm											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.00	0.00	0.00	0.00	1.80	42.30	80.00	19.58	9.20	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	20.00	40.90	121.50	12.00	11.40	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	27.00	21.00	151.40	20.60	9.80	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	12.00	25.00	108.00	42.00	61.00	0.40	0.00
5	0.00	0.00	0.00	0.00	11.00	6.00	45.50	84.00	22.80	9.00	0.00	0.00
6	0.00	0.00	0.00	0.00	21.00	0.00	46.00	107.00	23.60	18.00	0.00	0.00
7	0.00	0.00	0.00	0.00	2.00	4.00	42.00	124.00	8.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	4.00	1.80	76.80	102.00	10.00	0.00	0.00	0.00
9	0.00	0.00	0.00	6.80	0.00	15.00	138.60	119.90	15.00	2.00	0.00	0.00
10	0.00	0.00	0.00	2.40	5.00	15.00	48.00	18.00	25.00	10.00	0.00	0.00
11	0.00	0.00	0.00	0.00	11.80	80.00	27.80	20.00	17.20	11.60	0.00	0.00
12	0.00	0.00	0.00	3.20	0.94	166.00	45.60	16.80	15.00	7.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	37.00	69.40	13.00	17.40	2.00	0.00	0.00
14	0.00	0.00	0.00	0.00	31.52	45.00	87.60	20.00	11.00	20.00	0.00	0.00
15	0.00	0.00	0.00	0.00	5.20	29.00	90.00	20.98	13.60	1.60	0.00	0.00
16	0.00	0.00	0.00	0.00	5.40	81.00	75.20	16.00	27.40	35.40	0.00	0.00
17	0.00	0.00	0.00	0.00	0.20	100.00	140.50	2.40	0.60	25.60	0.00	0.00
18	0.00	0.00	0.00	0.00	0.60	170.00	122.80	18.00	0.20	50.40	0.00	0.00
19	0.00	0.00	0.00	0.00	28.30	140.00	136.00	3.40	0.00	0.20	0.00	0.00
20	0.00	0.00	0.00	0.00	33.00	181.00	60.60	13.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	46.00	53.00	74.20	5.00	0.00	44.60	0.00	0.00
22	0.00	0.00	0.00	6.00	10.00	43.00	108.80	0.70	0.00	58.60	0.00	0.00
23	0.00	0.00	0.60	4.00	44.00	20.60	43.40	0.20	0.00	13.00	0.00	0.00
24	0.00	0.00	0.00	17.00	85.00	4.60	67.00	13.00	0.00	1.00	0.00	0.00
25	0.00	0.00	0.00	0.00	44.00	35.00	107.00	40.00	0.00	48.00	0.00	0.00
26	0.00	0.00	0.00	0.00	14.60	0.30	119.40	40.00	11.00	1.00	0.00	0.00
27	0.00	0.00	0.00	0.00	29.40	15.60	115.00	25.00	0.00	22.60	0.00	0.00
28	0.00	0.00	0.00	0.00	3.60	0.00	107.80	4.80	0.00	40.40	0.00	0.00
29	0.00	0.00	0.00	0.00	0.20	14.20	100.00	9.00	1.00	73.60	0.00	0.00
30	0.00	0.00	0.00	0.00	13.00	5.10	120.00	7.40	0.00	3.00	0.00	0.00
31	0.00	0.00	0.00	0.00	9.00	97.00	9.00	12.00	0.00	0.00	0.00	0.00
Total	0.0	0.0	0.6	39.4	458.8	1323.0	2441.2	1316.5	314.2	590.0	0.4	0.0
	Total =											6484.0
	Max =											181.0
	mm											mm

Rainfall for the year 2000

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.00	0.00	0.00	0.00	18.00	50.00	0.00	30.00	108.00	0.00	0.00
2	0.00	0.00	0.00	0.00	8.00	20.00	56.00	2.00	164.00	8.60	0.00	0.00
3	0.00	0.00	0.00	4.20	0.00	21.00	5.00	30.00	90.00	2.00	0.00	0.00
4	0.00	0.00	0.00	1.00	0.00	25.00	50.00	13.00	45.00	3.00	0.00	0.00
5	0.00	0.00	0.00	0.00	9.00	31.00	19.40	3.80	7.00	1.10	0.00	0.00
6	0.00	0.00	0.00	0.00	2.00	177.80	20.00	3.80	12.00	2.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	98.00	69.00	37.00	23.20	2.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	94.40	147.00	84.00	1.20	20.10	0.00	0.00
9	0.00	0.00	0.00	0.00	2.80	63.40	130.00	60.00	10.00	9.10	0.00	0.00
10	0.00	0.00	0.00	0.20	44.20	40.00	158.00	53.00	7.00	25.60	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	44.00	300.00	80.00	1.10	10.00	0.00	0.00
12	0.00	0.00	0.00	0.60	0.00	30.00	250.00	31.00	0.70	10.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	9.00	198.50	0.40	38.80	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	15.00	130.00	0.00	30.00	12.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.40	20.00	35.00	19.00	2.00	5.20	0.00	0.00
16	0.00	0.00	0.00	7.00	7.00	160.00	95.00	20.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.80	40.00	75.00	90.80	22.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	9.00	44.00	118.00	40.00	23.20	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	6.00	45.00	120.00	36.00	55.00	12.80	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	3.00	92.00	25.00	66.80	43.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	1.80	20.00	1.40	137.00	5.60	0.40	0.00	0.00
22	0.00	0.00	0.00	0.00	2.20	5.20	0.00	200.00	31.00	9.80	0.00	0.00
23	0.00	0.00	0.00	33.00	0.00	20.00	0.64	200.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	2.80	3.40	8.00	0.00	200.00	6.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	17.00	0.00	220.00	58.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	23.00	10.00	7.80	62.00	4.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	7.00	37.00	15.40	70.00	3.90	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	10.00	30.00	36.00	120.00	3.60	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	2.80	38.00	3.40	73.00	7.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	11.00	50.00	2.00	30.00	6.00	0.00	5.00	0.00
31	0.00	0.00	0.00	0.00	25.00	1.00	1.00	30.00	0.00	0.00	0.00	0.00
Total	0.0	0.0	0.0	64.6	291.6	1506.8	1972.3	1946.0	642.9	228.9	9.4	0.0

Total = 6662.5 mm

Max = 300.0 mm

Rainfall for the year 2001

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	19.00	0.00	0.00	0.00	0.00	33.00	25.00	6.00	6.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	59.00	50.00	0.60	1.20	0.00	0.00
3	0.00	0.00	0.00	0.00	0.60	0.00	120.00	81.00	1.20	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	2.00	111.80	85.00	0.00	4.40	0.00	0.00
5	0.00	0.00	0.00	0.00	1.60	50.00	125.60	50.20	0.00	31.00	14.00	0.00
6	0.00	0.00	0.00	0.00	0.00	23.00	125.60	62.50	0.00	25.00	11.00	0.00
7	0.00	0.00	0.00	0.00	0.00	40.00	179.00	58.00	0.00	33.00	35.00	0.00
8	0.00	0.00	0.00	0.10	0.00	23.00	210.00	34.20	0.20	16.10	8.30	0.00
9	0.00	0.00	0.00	0.20	0.00	27.00	150.00	17.00	1.60	3.00	0.00	0.00
10	0.00	0.00	0.00	16.40	0.00	55.00	201.00	33.00	0.00	18.10	0.00	0.00
11	0.00	0.00	0.00	23.00	0.00	150.00	102.40	20.00	0.00	70.00	0.00	0.00
12	0.00	0.00	0.00	30.00	0.00	157.00	56.00	43.20	0.00	1.70	0.00	0.00
13	0.00	0.00	0.00	1.60	0.00	150.00	51.00	61.00	0.00	1.20	0.00	0.00
14	0.00	0.00	0.00	16.00	0.00	168.00	33.20	70.00	25.00	30.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	175.00	22.00	80.00	1.20	5.70	12.00	0.00
16	0.00	0.00	0.00	4.00	0.00	125.00	67.00	65.00	11.50	3.70	33.00	0.00
17	0.00	0.00	0.00	9.80	0.00	50.00	60.00	72.00	0.00	1.00	0.00	0.00
18	0.00	0.00	0.00	2.60	0.00	232.00	32.20	95.00	3.00	0.20	0.00	0.00
19	0.00	0.00	0.00	0.60	0.00	79.00	16.00	50.00	100.00	12.00	0.00	0.00
20	0.00	0.00	0.00	3.20	1.00	32.50	36.00	95.00	31.00	13.60	0.00	0.00
21	0.00	0.00	0.00	1.20	2.20	34.40	34.60	116.00	6.00	0.00	0.00	0.00
22	0.00	0.00	0.00	7.00	1.90	79.60	15.90	50.00	3.40	0.00	3.00	0.00
23	0.00	0.00	0.00	3.00	8.80	70.00	40.00	70.00	45.00	0.00	6.90	0.00
24	0.00	0.00	0.00	0.00	19.20	106.00	47.00	31.00	3.60	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	20.00	21.00	5.60	32.00	18.00	20.00	0.00	0.00
26	0.00	0.00	0.00	0.00	28.00	40.20	14.80	10.70	10.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	22.30	18.00	31.00	13.00	20.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	24.50	20.00	28.00	21.00	15.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	12.60	16.00	41.00	20.00	6.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.40	6.60	12.00	17.50	15.00	2.90	0.00	0.00	0.00
31	0.00	0.00	0.00	0.40	0.40	5.00	5.00	13.80	0.00	0.00	0.00	0.00
Total	0.0	19.0	0.0	119.1	149.7	1955.7	2071.2	1539.6	311.2	296.9	123.2	0.0
				Total =	6585.6	mm			Max =	232.0	mm	

Rainfall for the year 2002

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	unit: mm
1	0.00	0.00	0.00	0.00	0.00	7.50	38.00	32.00	26.80	10.40	1.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	23.60	34.00	42.00	20.00	0.00	0.20	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	30.70	40.00	59.00	23.00	20.80	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.20	6.00	43.00	44.00	13.50	0.00	0.00	0.00	0.00
5	0.00	0.40	0.00	1.00	0.00	1.60	36.00	109.00	47.00	0.00	0.00	0.00	0.00
6	0.00	7.60	0.00	2.00	0.00	0.80	7.00	93.00	100.00	0.00	0.00	0.00	0.00
7	0.00	12.40	0.00	0.00	0.00	1.00	5.00	64.60	25.00	17.00	0.00	0.00	0.00
8	0.60	0.00	0.00	0.40	0.00	22.80	10.00	110.00	68.00	22.00	0.00	0.00	0.00
9	0.00	2.20	0.00	0.20	0.00	58.00	30.00	80.00	47.00	10.00	0.00	0.00	0.00
10	0.00	0.00	0.00	15.00	0.00	5.40	48.60	123.00	1.00	10.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	3.00	90.00	97.00	10.00	55.00	0.00	0.00	0.00
12	0.00	0.00	0.00	5.00	0.00	10.00	110.00	197.00	7.40	93.00	0.00	0.00	0.00
13	0.00	0.00	0.00	5.00	2.00	30.00	25.00	168.00	0.00	72.00	0.00	0.00	0.00
14	0.00	0.00	0.00	4.68	0.00	67.00	23.00	60.00	16.00	24.80	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	43.60	14.00	60.00	15.00	2.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	10.60	26.00	66.00	256.00	3.00	1.80	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	14.20	19.00	10.00	183.00	0.40	10.20	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	14.20	44.00	9.20	168.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	12.00	50.00	22.80	88.00	0.00	7.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	4.00	75.00	13.00	79.40	0.00	4.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	77.40	7.00	33.00	0.00	2.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	15.00	110.00	22.00	21.40	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	4.40	140.00	18.00	21.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	4.40	102.00	7.00	42.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	1.20	75.00	19.60	14.80	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	80.00	7.00	6.40	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	4.60	0.00	51.00	22.00	1.40	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	13.00	9.00	0.00	6.20	19.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	5.00	7.90	11.00	0.00	1.20	8.80	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	8.00	12.00	12.00	0.00	12.60	2.00	0.00	0.00	0.00
31	0.00	0.00	2.00	0.00	1.40	20.00	0.60	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.6	22.6	2.0	37.9	96.6	1193.3	829.2	2253.6	443.1	391.8	1.2	0.0	mm
				Total =	5271.9	mm			Max =	256.0			

Rainfall for the year 2003

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	3.80	0.00	0.00	0.00	0.00	37.00	21.00	44.00	20.40	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	19.60	25.00	12.40	3.80	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	35.90	21.00	38.00	22.00	1.20	0.00
4	0.00	0.00	0.00	0.00	0.00	0.50	96.00	16.00	12.60	20.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.20	6.20	87.00	25.00	33.00	27.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	5.00	37.00	83.00	31.20	11.00	1.00	0.00
7	0.00	0.00	0.00	0.00	0.00	4.30	53.80	122.00	25.00	36.80	3.80	0.00
8	0.00	0.00	0.00	0.00	0.00	2.80	43.00	34.00	21.00	10.00	9.30	0.00
9	0.00	0.00	0.00	0.20	0.00	7.60	27.70	33.00	10.00	5.00	4.00	0.00
10	0.00	0.00	0.00	3.40	0.00	13.10	45.60	11.00	3.60	1.10	0.00	0.00
11	0.00	0.00	0.00	5.80	0.00	24.40	16.00	8.00	2.00	15.00	0.00	0.00
12	0.00	0.00	0.00	12.00	0.00	49.40	27.00	15.00	5.00	0.50	0.00	0.00
13	0.00	0.00	5.30	4.00	0.00	24.10	49.00	25.50	6.20	0.20	0.00	0.00
14	0.00	0.00	0.70	0.00	0.00	66.60	65.00	30.00	24.00	3.20	0.00	0.00
15	0.00	8.20	0.00	0.00	0.00	49.50	65.00	44.40	37.00	0.90	2.40	0.00
16	0.00	0.00	0.00	1.60	0.00	47.80	114.00	20.60	15.00	1.70	5.00	0.00
17	0.00	0.00	0.00	0.60	0.00	35.00	102.00	27.60	8.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	100.00	19.00	35.30	15.00	20.00	0.00	0.00
19	0.00	0.00	0.00	0.60	0.00	147.00	7.00	16.60	27.40	10.00	0.00	0.00
20	0.00	0.00	12.00	1.60	0.40	97.00	7.40	240.00	2.80	8.00	0.00	0.00
21	0.00	0.00	3.80	1.50	0.80	100.00	21.00	101.00	0.80	18.40	0.00	0.00
22	0.00	0.00	0.00	6.00	0.30	190.00	42.00	110.00	0.00	15.00	0.60	0.00
23	0.00	0.00	0.00	0.00	2.00	36.00	85.40	71.00	25.00	10.00	1.10	0.00
24	0.00	0.00	0.00	0.00	3.00	27.60	75.00	39.50	1.20	2.00	0.00	0.00
25	0.00	0.00	0.00	0.00	3.10	18.00	87.00	57.00	4.00	1.50	0.00	0.00
26	0.00	0.00	0.00	0.00	4.80	18.40	82.00	20.30	3.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	3.90	28.00	157.00	50.00	3.30	0.00	0.00	0.00
28	0.00	0.00	19.00	0.00	4.50	11.00	125.00	25.00	10.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	1.60	23.00	14.40	35.00	0.90	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.40	17.00	9.30	21.00	2.30	2.20	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	6.80	6.80	20.00	0.00	0.00	0.00	0.00
Total	0.0	12.0	40.8	37.3	25.0	1149.3	1658.9	1403.8	423.7	265.7	28.4	0.0
				Total =	5044.9	mm			Max =	240.0	mm	

STATION :MG

TALUK :Sakaleshpur
Rainfall for the year 1988

DISTRICT :Hassan

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.00	0.00	0.00	0.00	6.64	41.20	101.80	19.00	26.80	0.00	0.00
2	0.00	0.00	0.00	0.00	0.12	16.60	14.20	305.80	42.32	69.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.84	3.20	3.40	366.20	48.00	14.00	0.00	0.00
4	0.00	0.00	0.00	0.00	2.48	2.60	7.78	223.00	6.20	5.36	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	13.20	3.40	38.00	0.30	26.40	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	3.86	6.00	4.16	42.04	12.00	0.14	0.00
7	0.00	0.00	0.00	0.00	3.00	8.00	4.88	1.76	20.40	7.20	5.20	0.00
8	0.00	0.00	0.00	1.18	0.00	18.00	45.02	35.20	20.90	0.20	0.00	0.00
9	0.00	0.00	0.00	0.00	0.36	32.30	5.14	19.20	52.00	11.22	0.00	0.00
10	0.00	0.00	0.00	15.50	0.00	41.00	78.00	9.64	11.00	6.60	0.00	0.00
11	0.00	0.00	0.00	1.30	0.24	21.40	14.00	2.70	8.16	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	20.06	33.40	2.40	2.56	0.00	0.00	1.50
13	0.00	0.00	0.00	0.80	0.00	28.20	71.90	4.68	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	15.40	0.00	21.20	99.00	19.30	22.20	0.00	0.00	41.50
15	0.00	0.00	0.00	2.00	0.00	28.20	112.60	30.00	13.40	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	34.00	250.00	84.20	21.00	0.00	0.00	0.00
17	0.00	0.00	0.00	11.00	0.00	18.00	358.60	81.20	31.00	0.00	0.00	0.00
18	0.00	0.00	0.00	2.00	0.00	12.00	185.00	80.00	45.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	21.40	291.80	234.60	48.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	19.40	106.00	69.00	64.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	10.36	72.00	12.80	33.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	40.80	51.20	11.00	31.00	0.00	0.00	0.00
23	0.00	0.00	0.00	2.20	0.00	70.40	50.40	22.20	116.40	1.20	0.00	0.00
24	0.00	0.00	0.00	26.32	9.44	59.90	10.94	43.10	27.80	0.00	0.00	0.00
25	0.00	0.00	0.00	7.30	0.00	26.40	12.00	3.74	25.00	0.00	0.00	0.00
26	0.00	0.00	0.00	27.22	0.20	14.00	34.00	6.60	26.30	1.60	0.00	0.00
27	0.00	0.00	0.00	11.70	0.50	17.00	48.20	56.80	23.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	2.84	13.50	90.00	12.00	5.64	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.94	3.20	101.20	28.00	15.36	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	1.40	5.92	52.70	15.20	3.60	3.08	0.00	0.00
31	0.00	0.00	0.00	0.00	0.42	26.64	26.64	18.00	0.00	0.00	0.00	0.00
Total	0.0	0.0	0.0	123.9	22.8	630.7	2280.6	1942.3	824.6	184.7	5.3	43.0
				Total =	6057.9	mm			Max =	366.2	mm	

Rainfall for the year 1989

Date	unit: mm											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.00	0.00	2.00	0.00	22.00	36.20	9.40	38.20	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	1.02	18.36	5.00	0.00	1.90	0.00	0.00
3	0.00	0.00	0.00	0.30	0.00	0.60	2.76	7.00	3.40	4.20	0.00	0.00
4	0.00	0.00	0.00	0.00	24.86	0.00	0.00	46.00	2.96	2.00	0.00	0.00
5	0.00	0.00	0.00	0.76	0.00	21.00	0.00	106.40	0.00	55.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	82.00	7.08	48.50	6.40	0.70	0.00	0.00
7	0.00	0.00	0.00	0.00	0.86	80.00	9.54	24.80	9.00	17.20	0.00	0.00
8	0.00	0.00	0.00	0.00	11.00	85.00	14.20	19.40	0.00	0.20	0.00	0.00
9	0.00	0.00	0.00	0.00	0.10	46.00	2.00	8.18	7.20	0.00	0.00	0.00
10	0.00	0.00	0.56	0.00	0.86	67.00	0.30	14.00	0.56	13.20	1.04	0.00
11	0.00	0.00	0.00	0.00	0.24	102.20	19.42	44.00	9.90	0.84	0.00	0.00
12	0.00	0.00	0.00	0.00	0.56	146.00	32.84	79.40	39.90	0.00	0.00	0.00
13	0.00	0.00	4.60	0.00	0.00	71.00	32.00	43.60	10.60	0.00	14.20	0.00
14	0.00	0.00	1.90	0.00	0.00	40.00	6.50	52.50	14.32	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	53.00	4.20	32.30	44.62	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.20	37.00	51.00	49.40	0.40	1.80	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	48.00	133.60	173.00	2.52	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.14	17.40	107.80	85.00	5.40	5.20	0.00	0.00
19	0.00	0.00	0.00	0.54	0.00	17.80	107.00	62.20	6.60	0.60	0.00	0.00
20	0.00	0.00	0.00	0.20	0.00	15.52	81.40	31.00	11.40	2.10	0.00	0.00
21	0.00	0.00	0.00	0.00	0.10	34.00	162.10	4.20	13.08	0.00	0.00	0.00
22	0.00	0.00	0.00	2.96	0.16	68.00	271.80	49.00	2.20	0.00	0.00	0.00
23	0.00	0.00	1.24	0.00	0.00	22.50	181.00	82.00	8.00	0.00	0.00	0.00
24	0.00	0.00	0.00	30.20	0.00	14.40	241.20	83.40	2.92	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	2.38	33.16	180.20	67.00	5.90	0.00	0.00	0.00
26	0.00	0.00	0.00	10.16	0.00	36.94	100.40	43.40	13.40	0.00	0.00	0.00
27	0.00	0.00	0.00	1.00	0.00	17.96	76.16	40.20	43.98	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	81.00	11.64	10.98	64.00	0.40	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	87.00	19.94	8.40	6.20	0.08	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	175.00	0.30	27.00	4.30	12.72	0.00	0.00
31	0.00	0.00	0.00	0.00	1.10	0.00	0.00	45.00	0.00	0.00	0.00	0.00
Total	0.0	0.0	8.3	48.1	42.6	1522.5	1910.9	1401.7	377.4	118.1	15.2	0.0
				Total =	5444.8	mm			Max =	271.8	mm	

Rainfall for the year 1990

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.00	0.00	0.00	0.00	20.64	195.60	44.08	7.40	37.00	0.00	0.00
2	22.20	0.00	0.00	0.00	0.00	45.14	322.00	43.60	8.20	13.22	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	14.88	95.80	17.80	16.20	10.00	0.20	0.00
4	0.00	0.00	0.00	0.00	0.00	2.24	37.40	10.40	52.00	10.60	0.00	0.00
5	0.00	0.00	0.00	0.00	6.98	3.20	16.00	3.64	68.40	0.84	0.00	0.00
6	0.00	0.00	0.00	0.00	2.90	19.98	22.00	8.40	78.00	3.04	0.00	0.00
7	0.00	0.00	0.00	4.46	0.00	7.66	62.20	6.80	15.92	0.44	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	4.60	22.00	26.10	13.00	12.60	0.00	0.00
9	0.00	0.00	0.00	0.00	11.38	24.00	36.40	51.00	1.14	0.00	0.20	0.00
10	0.00	0.00	0.00	0.00	4.70	24.40	46.00	71.00	12.60	0.00	2.82	0.00
11	0.00	0.00	0.00	0.00	27.40	61.00	64.88	99.60	45.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	37.00	21.56	104.20	44.00	0.12	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	16.28	12.00	176.00	45.00	8.94	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	15.00	58.72	204.00	19.02	6.60	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	49.92	58.80	222.80	0.00	10.40	0.84	0.00
16	0.00	0.00	0.00	0.00	0.00	105.40	95.40	232.20	0.00	0.00	0.60	0.00
17	0.00	0.00	0.00	0.00	2.38	106.00	115.40	122.40	0.00	3.76	0.96	0.00
18	0.00	0.00	0.00	0.00	1.00	99.60	125.00	105.20	0.00	0.20	0.00	0.00
19	0.00	0.00	0.00	0.00	55.14	178.40	55.76	169.00	0.00	2.70	0.00	0.00
20	0.00	0.00	0.00	0.00	28.80	29.88	58.00	165.00	25.40	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	11.24	27.50	29.40	107.00	9.80	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	25.20	56.00	30.80	111.20	0.76	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	5.00	45.00	51.70	115.00	19.40	37.40	0.00	0.00
24	0.00	0.00	0.00	0.30	16.00	16.80	100.00	59.00	1.42	25.00	0.00	0.00
25	0.00	0.00	0.00	0.00	3.04	69.00	57.20	14.20	2.86	2.20	0.00	0.00
26	0.00	0.00	0.00	0.00	7.64	156.04	23.00	21.00	2.00	34.40	4.36	0.00
27	0.00	0.00	0.00	0.00	40.44	100.00	15.20	4.60	5.96	42.40	0.00	0.00
28	0.00	0.00	0.00	0.00	37.40	75.40	24.40	33.40	0.84	24.60	0.00	0.00
29	0.00	0.00	0.00	0.00	21.76	95.00	17.20	71.00	2.60	16.00	0.00	0.00
30	0.00	0.00	0.00	0.00	28.00	75.40	49.80	82.00	2.40	10.00	0.00	0.00
31	0.00	0.00	0.00	0.00	23.12	52.00	42.00	42.00	8.00	8.00	0.00	0.26
Total	22.2	0.0	0.0	4.8	359.5	1581.4	1971.6	2543.6	499.3	320.5	10.0	0.3

Rainfall for the year 1991

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.00	0.00	0.00	0.00	0.40	36.40	64.60	1.00	0.00	0.00	0.00
2	0.00	0.00	0.00	21.08	0.00	20.40	11.00	12.40	0.00	2.00	0.50	0.00
3	0.00	0.00	0.00	0.00	0.00	18.40	12.92	18.00	0.00	6.88	28.30	0.00
4	0.00	0.00	0.00	7.28	4.92	72.36	40.80	9.00	0.00	5.72	11.76	0.00
5	0.00	0.00	0.00	0.00	7.00	50.00	92.40	6.86	0.00	33.80	12.00	0.00
6	0.00	0.00	0.00	1.02	0.00	83.50	81.00	14.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	156.00	34.00	45.00	0.20	1.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	181.60	83.00	71.00	16.40	4.76	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	226.10	49.40	80.90	0.00	11.86	0.00	0.00
10	0.00	0.00	0.20	31.60	0.00	453.00	60.00	58.40	0.00	5.56	0.00	0.00
11	0.00	0.00	0.00	33.00	2.12	102.00	73.40	43.40	0.00	1.38	0.00	0.00
12	0.00	0.00	0.00	0.00	0.44	75.00	126.00	53.00	8.80	8.96	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	6.80	81.80	137.00	0.60	2.70	0.00	0.00
14	0.00	0.00	0.00	0.48	27.70	4.20	75.00	104.00	28.00	0.00	0.00	0.00
15	0.00	0.00	1.00	2.20	1.92	13.54	163.40	125.00	8.00	0.00	0.40	0.00
16	0.00	0.00	0.00	0.00	0.00	42.60	111.00	58.40	1.00	16.80	0.82	0.00
17	0.00	0.00	0.00	0.00	0.00	32.00	72.00	47.00	0.00	31.80	6.00	0.00
18	0.00	0.00	0.00	1.36	0.00	11.00	60.00	52.60	0.00	3.28	0.00	0.00
19	0.00	0.00	0.00	0.64	0.00	52.00	97.00	10.40	0.00	3.60	0.00	0.00
20	0.00	0.00	0.00	0.00	4.32	102.00	89.00	37.40	0.20	0.00	0.00	10.80
21	0.00	0.00	0.00	5.34	10.12	5.20	107.00	46.00	21.04	5.68	0.00	0.00
22	0.00	0.00	0.00	3.50	3.00	10.80	75.00	41.40	16.08	1.30	0.00	0.00
23	0.00	0.00	0.00	27.00	30.80	12.32	74.00	40.40	25.84	3.14	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	21.00	100.00	61.20	6.24	0.00	0.00	0.00
25	0.00	0.00	0.00	0.10	32.60	57.16	125.00	44.24	8.20	0.00	0.00	0.00
26	0.00	0.00	0.00	0.90	0.00	52.00	324.00	7.60	1.20	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	18.68	84.00	412.40	7.20	6.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	5.04	30.60	202.60	6.64	16.22	4.40	0.00	0.00
29	0.00	0.00	0.00	0.00	16.00	7.00	225.00	12.00	1.24	33.00	0.00	0.00
30	0.00	0.00	0.00	0.00	6.88	86.00	149.00	1.96	0.00	5.84	0.00	0.00
31	0.00	0.00	0.00	0.00	0.28	94.00	94.00	5.20	0.00	0.60	0.00	0.00
Total	0.0	0.0	1.2	135.5	171.8	2069.0	3337.5	1322.2	166.3	194.1	59.8	10.8
				Total =	7468.1	mm			Max =	453.0	mm	

Rainfall for the year 1992

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.00	0.00	0.00	1.80	0.20	17.20	29.94	27.40	24.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.60	55.00	1.80	47.40	60.90	19.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.60	31.80	82.40	25.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	26.60	0.00	12.80	49.60	103.40	0.00	0.00
5	0.00	0.00	0.00	0.00	13.20	26.00	2.26	3.80	62.00	132.40	0.00	0.00
6	0.00	0.00	0.00	0.00	1.00	0.00	11.52	1.44	150.00	2.16	0.00	0.00
7	0.00	0.00	0.00	0.00	1.16	5.80	19.00	11.40	125.00	10.00	0.00	0.00
8	0.00	0.00	0.00	18.00	1.14	1.60	18.00	11.00	54.80	4.80	9.80	0.00
9	0.00	0.00	0.00	0.00	1.08	0.40	9.44	63.00	32.94	3.22	8.18	0.00
10	0.00	0.00	0.00	0.00	2.54	0.00	7.40	72.00	8.10	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	9.06	7.52	38.76	143.00	0.80	3.60	0.00	0.00
12	0.00	0.00	0.00	0.00	8.00	19.80	36.20	282.00	0.58	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.40	58.40	41.20	221.00	0.00	1.00	0.00	0.00
14	0.00	0.00	0.00	0.00	15.20	6.80	29.40	161.80	0.00	4.20	8.40	0.00
15	0.00	0.00	0.00	0.00	5.60	103.40	40.00	120.60	0.60	39.40	125.00	0.00
16	0.00	0.00	0.00	0.00	0.00	92.40	85.00	243.00	0.00	0.20	79.00	0.00
17	0.00	0.00	0.00	0.00	14.80	83.40	197.80	170.40	5.08	0.00	27.00	0.00
18	0.00	0.00	0.00	0.32	3.00	255.00	90.40	162.00	1.96	0.00	3.80	0.00
19	0.00	0.00	0.00	1.26	0.00	315.40	175.00	122.00	31.80	0.00	0.00	0.00
20	0.00	0.00	0.00	0.20	0.00	302.00	171.00	109.68	52.80	0.00	43.80	0.00
21	0.00	0.00	0.00	0.00	0.00	165.40	39.40	52.40	2.76	0.00	20.80	0.00
22	0.00	0.00	0.00	0.00	0.00	116.40	53.50	63.00	1.22	0.00	0.94	0.00
23	0.00	0.00	0.00	10.80	0.60	126.20	71.00	6.50	15.00	1.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	28.72	130.40	14.20	5.34	0.00	0.00	0.00
25	0.00	0.00	0.00	8.26	0.00	23.30	117.00	22.40	0.00	6.00	0.00	0.00
26	0.00	0.00	0.00	14.80	0.00	93.40	314.40	30.00	20.20	0.00	0.00	0.00
27	0.00	0.00	0.00	0.20	0.00	156.20	127.00	33.00	11.30	0.40	0.00	0.00
28	0.00	0.00	0.00	0.00	18.40	57.40	163.40	52.40	83.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	40.20	100.00	52.00	24.06	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	62.80	66.40	20.60	1.50	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	10.56	26.40	26.40	0.00	0.00	0.00	0.00
Total	0.0	0.0	0.0	53.8	97.6	2229.7	2185.0	2393.0	911.1	379.8	326.7	0.0
	Total = 8576.8 mm											
	Max = 315.4 mm											

Rainfall for the year 1993

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.00	0.00	0.00	0.00	1.08	70.74	192.40	12.04	2.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.40	138.00	85.60	14.06	35.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	5.80	128.00	110.60	21.84	18.40	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	2.32	27.80	19.80	21.00	9.64	1.50	0.00
5	0.00	0.00	0.00	0.00	0.00	11.60	35.50	8.40	42.08	2.32	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.40	5.40	3.54	20.84	4.60	0.00	0.20
7	0.00	0.00	0.00	0.00	0.00	3.98	30.10	21.00	16.80	1.60	0.00	17.04
8	0.00	0.00	0.00	0.00	23.44	10.08	36.60	18.64	8.64	2.24	0.40	6.20
9	0.00	0.00	0.00	0.00	0.72	19.56	118.00	43.20	4.50	11.00	2.10	0.00
10	0.00	0.00	0.00	16.50	0.00	27.40	77.80	52.00	0.50	11.40	8.80	0.00
11	0.00	0.00	0.00	0.00	0.00	64.80	157.40	81.44	6.96	5.40	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	62.00	100.00	79.00	5.20	5.20	1.80	0.00
13	0.00	0.00	0.00	0.00	0.00	50.40	204.80	62.56	10.00	19.00	0.00	0.00
14	0.00	0.00	0.00	0.00	22.26	64.60	167.60	149.20	4.90	10.20	0.00	0.00
15	0.00	0.00	0.00	0.20	4.22	71.00	94.40	183.60	11.48	17.80	0.00	0.00
16	0.00	0.00	0.00	0.00	1.74	88.00	84.40	116.20	0.16	2.80	3.12	0.00
17	0.00	0.00	0.00	10.00	26.40	92.40	11.20	47.60	0.18	1.20	0.00	0.00
18	0.00	0.00	0.00	37.20	0.00	132.00	7.24	27.24	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	2.66	12.60	84.40	2.42	26.00	0.66	39.00	0.00	0.00
20	0.00	0.00	0.00	0.00	5.02	18.40	3.48	81.00	0.00	31.00	0.00	0.00
21	0.00	0.00	0.00	2.52	19.18	9.24	8.84	27.00	0.00	17.00	0.00	0.00
22	0.00	0.00	0.00	4.80	17.70	19.60	14.12	32.28	1.80	8.64	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	1.88	15.46	20.08	21.40	3.20	0.00	0.00
24	0.00	0.00	0.00	1.08	0.00	0.96	21.90	38.60	6.38	0.00	0.00	0.00
25	0.00	0.00	0.00	4.00	0.00	14.30	53.22	40.88	0.68	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	2.20	32.00	56.16	54.00	3.60	0.00	0.00	0.00
27	0.00	0.00	0.00	0.60	0.00	8.80	73.30	7.56	3.40	0.00	0.00	0.00
28	0.00	0.00	0.00	4.02	2.24	7.22	131.00	8.64	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	2.90	0.00	8.92	156.60	50.00	0.00	1.26	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	36.24	158.60	48.58	2.20	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00	145.00	19.38	0.00	0.00	0.00	0.00
Total	0.0	0.0	0.0	86.5	137.7	949.8	2335.1	1756.0	241.3	259.9	17.7	23.4
	Total = 5807.4 mm											
	Max = 204.8 mm											

Rainfall for the year 1994

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.00	0.00	0.00	0.00	1.00	82.20	83.00	170.00	20.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	18.26	101.40	88.00	104.08	8.50	5.80	0.00
3	0.00	0.00	0.00	5.88	0.00	26.00	13.72	47.00	102.40	31.08	3.20	0.00
4	0.00	0.00	0.00	0.00	0.00	134.00	13.20	32.00	67.08	17.20	1.88	0.00
5	0.00	0.00	0.00	9.80	20.76	84.00	51.00	6.40	114.40	21.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.40	38.00	8.92	7.24	64.00	30.80	0.00	0.00
7	0.00	0.00	0.00	0.00	0.08	16.40	14.00	8.60	11.60	3.26	0.00	0.00
8	0.00	0.00	0.00	0.00	2.00	33.80	41.20	0.64	5.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	25.40	117.00	3.34	10.08	16.80	0.00	0.00
10	0.00	0.00	0.00	25.80	0.00	32.40	152.00	30.00	4.64	22.00	0.00	0.00
11	0.00	0.00	0.00	35.00	0.00	131.00	274.80	37.20	0.00	0.28	0.00	0.00
12	0.00	0.00	0.00	0.84	0.00	139.00	381.20	35.76	0.52	41.20	0.00	0.00
13	0.00	0.00	0.00	0.40	0.00	164.40	221.00	2.68	0.44	26.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	116.84	256.00	2.20	5.60	10.52	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	91.00	122.00	2.00	1.00	13.20	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	66.50	151.00	31.00	0.00	11.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	52.80	52.00	38.00	0.00	0.00	0.00	0.00
18	12.50	0.00	0.00	0.00	0.00	65.24	81.00	70.00	0.60	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	87.00	102.00	50.20	0.00	2.10	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	17.40	140.00	28.16	0.00	2.80	0.00	0.00
21	0.00	0.00	0.00	0.00	0.68	2.52	133.00	27.68	0.00	0.10	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	26.00	68.00	19.04	0.00	5.04	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	19.20	94.68	54.00	0.00	17.60	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	88.00	88.60	41.00	0.00	24.02	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	57.00	86.80	34.00	0.00	5.26	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	86.40	71.48	118.80	2.80	43.00	0.00	0.00
27	0.00	0.00	0.00	0.00	7.66	88.40	107.80	87.60	2.30	31.00	0.00	0.00
28	0.00	0.00	0.00	0.00	32.00	203.40	68.00	74.00	16.98	4.52	0.00	0.00
29	0.00	0.00	0.00	0.00	0.40	142.00	84.80	89.00	4.40	6.84	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	95.40	106.40	118.20	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	86.20	86.20	161.00	0.00	0.00	0.00	0.00
Total	12.5	0.0	0.0	77.7	64.0	2148.8	3371.4	1427.7	687.9	415.1	10.9	0.0

Total = 8216.0 mm Max = 381.2 mm

Rainfall for the year 1995

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.00	0.00	0.00	0.00	0.00	71.00	13.00	207.00	5.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.40	0.00	47.00	84.40	214.56	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	19.00	95.00	201.20	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	3.50	2.24	6.16	34.20	92.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	18.00	0.00	23.80	10.20	61.40	2.04	24.80	0.00
6	0.00	0.00	0.00	32.00	9.00	0.00	48.34	13.42	48.30	3.96	3.36	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	18.00	64.16	35.00	6.26	0.00	0.00
8	0.00	0.00	0.00	0.00	6.00	0.00	16.20	90.00	10.00	0.12	0.00	0.00
9	0.00	0.00	0.00	0.00	2.16	7.36	56.22	18.92	6.20	5.56	0.00	0.00
10	0.00	0.00	0.00	0.00	7.00	20.00	152.20	0.20	0.00	32.20	0.00	0.00
11	0.00	0.00	0.00	0.00	12.60	63.00	206.00	13.76	0.00	1.48	0.00	0.00
12	0.00	0.00	0.00	0.00	59.00	100.00	175.50	6.20	4.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	25.00	72.00	104.50	12.00	2.10	0.60	0.00	0.00
14	0.00	0.00	0.00	0.00	85.00	27.00	55.00	9.20	50.20	3.00	0.00	0.00
15	0.00	0.00	0.00	0.00	1.46	6.00	63.00	6.18	38.20	0.00	0.00	0.00
16	0.00	0.00	0.00	1.30	2.78	10.00	250.40	27.00	18.20	0.00	0.00	0.00
17	0.00	0.00	0.00	13.00	0.00	5.00	40.30	30.00	28.56	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	9.40	164.00	1.30	14.34	19.36	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	4.42	193.00	16.20	4.80	0.20	0.00	0.00
20	0.00	0.00	0.00	20.00	0.00	6.10	100.80	26.44	0.00	0.20	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	8.10	132.00	0.40	13.00	0.00	0.00	0.00
22	0.00	0.00	0.00	1.40	0.00	5.56	36.00	0.00	0.20	0.00	0.00	0.00
23	0.00	0.00	0.00	20.00	0.00	6.00	37.00	26.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	3.48	14.84	2.10	0.00	17.20	4.00	0.00
25	0.00	0.00	0.00	0.00	7.06	16.00	14.20	12.16	1.70	2.48	19.50	0.00
26	0.00	0.00	0.00	0.00	0.00	50.00	75.00	115.00	0.00	1.60	0.00	0.00
27	0.00	0.00	0.00	0.00	7.42	45.20	34.00	17.20	0.00	15.16	0.00	0.00
28	0.00	0.00	0.00	0.00	1.00	63.00	3.00	126.80	1.20	0.60	0.00	0.00
29	0.00	0.00	0.00	22.30	2.60	72.00	7.60	149.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	5.32	19.20	79.00	56.00	251.00	4.00	0.00	0.00	0.00
31	0.00	0.00	0.00	11.40	11.40	38.00	38.00	150.20	6.50	6.50	0.00	0.00
Total	0.0	0.0	0.0	115.3	280.6	680.9	2258.1	1421.6	1056.2	129.7	51.7	0.0
				Total =	5994.0	mm			Max =	251.0	mm	

Rainfall for the year 1996

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.00	0.00	0.00	0.00	5.00	0.00	111.00	2.34	15.20	0.00	0.00
2	0.00	0.00	0.00	1.04	0.00	1.78	0.20	23.00	2.00	92.00	34.00	0.00
3	0.00	0.00	0.00	15.50	0.00	8.44	3.10	59.00	5.20	42.60	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.50	59.40	12.40	1.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.60	26.00	9.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	15.20	116.00	6.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.80	0.60	38.00	4.60	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	4.10	2.64	22.90	7.92	0.00	0.00	0.96
9	0.00	0.00	0.00	0.00	0.00	6.00	0.00	74.00	6.10	18.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	2.30	31.00	22.00	10.00	11.00	0.00	0.40
11	0.00	0.00	0.00	10.78	0.00	1.16	29.00	14.00	20.60	1.90	0.00	0.00
12	0.00	0.00	0.00	0.60	0.00	30.60	55.00	27.00	24.00	4.00	1.20	0.00
13	0.00	0.00	0.00	11.60	0.00	84.00	18.80	31.00	48.00	8.70	2.20	0.00
14	0.00	0.00	0.00	0.40	0.00	356.00	61.00	30.50	2.76	10.40	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	100.00	61.00	25.50	18.00	0.00	0.00	5.82
16	0.00	0.00	0.00	3.22	0.00	127.00	89.00	15.00	13.00	8.20	0.00	32.20
17	0.00	0.00	0.00	0.00	0.00	231.00	122.80	13.00	23.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	106.00	114.00	58.00	8.80	2.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	105.00	83.00	17.00	10.00	13.00	0.00	0.00
20	0.00	0.00	0.00	0.00	2.60	60.00	136.00	1.50	17.70	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	35.00	106.00	6.80	2.60	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	13.00	222.00	4.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	3.24	4.20	35.00	315.00	10.96	32.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	3.96	210.00	77.00	1.30	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.40	150.00	63.00	6.60	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	1.80	0.00	151.00	28.10	6.22	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	1.20	169.00	62.00	26.00	2.00	0.00	0.00
28	0.00	0.00	0.00	0.00	10.00	0.00	99.00	88.76	103.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	7.00	97.00	64.00	20.90	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	5.00	6.78	77.90	4.20	1.60	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	130.00	130.00	0.40	12.00	0.00	0.00	0.00
Total	0.0	0.0	0.0	46.4	23.6	1331.5	2550.3	1193.0	451.6	242.0	41.7	39.4
				Total =	5919.6	mm			Max =	356.0	mm	

Rainfall for the year 1997

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.00	0.00	0.50	4.00	0.00	107.00	263.00	0.40	24.00	0.00	0.00
2	0.00	0.00	0.00	0.00	114.00	0.00	96.00	92.00	24.60	11.20	0.00	0.00
3	0.00	0.00	0.00	0.00	0.40	0.00	70.60	93.00	15.50	5.00	4.00	0.00
4	0.00	0.00	0.00	0.00	0.70	0.00	88.20	30.20	2.20	0.00	1.40	0.00
5	0.00	0.00	0.00	0.00	0.00	31.64	89.00	109.00	2.90	1.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	89.00	249.60	3.60	3.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	4.80	75.00	279.40	81.00	5.20	0.00	0.00
8	0.00	0.00	0.00	17.00	0.00	0.00	133.00	47.00	8.00	0.00	0.00	21.00
9	0.00	0.00	0.00	0.00	0.00	4.50	261.00	26.00	5.00	0.00	0.00	1.00
10	0.00	0.00	0.00	0.00	0.00	17.80	110.00	19.00	18.40	0.00	1.20	0.00
11	0.00	0.00	0.00	0.00	10.40	17.90	41.00	6.90	32.30	0.20	5.20	0.00
12	0.40	0.00	0.00	0.00	0.00	28.20	48.40	16.00	0.40	0.00	5.00	0.00
13	0.00	0.00	0.00	0.00	7.00	7.00	87.00	1.60	0.40	0.00	7.00	1.00
14	0.00	0.00	0.00	0.00	0.00	5.10	65.00	0.40	0.00	0.00	7.00	0.00
15	2.30	0.00	17.00	0.00	0.00	9.40	57.00	3.90	181.60	4.20	0.00	0.00
16	0.00	0.00	0.00	0.00	0.46	8.00	68.00	4.00	13.40	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	28.00	70.70	43.00	109.80	0.00	3.00	0.00
18	0.00	0.00	0.00	0.00	0.00	13.20	62.60	19.20	140.80	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	17.40	102.00	53.00	34.80	0.00	0.80	0.00
20	0.00	0.00	18.50	29.00	0.00	16.50	5.00	91.60	16.20	0.00	0.00	0.00
21	0.00	0.00	0.00	15.80	0.00	6.00	15.00	154.00	18.20	0.00	0.00	0.00
22	0.00	0.00	34.90	0.00	0.50	5.00	21.60	248.00	15.00	12.00	5.80	0.00
23	0.00	0.00	39.00	0.00	0.00	59.70	30.60	188.00	0.40	1.60	81.00	0.00
24	0.00	0.00	3.00	0.00	4.78	141.80	96.00	59.20	3.60	0.00	0.40	0.00
25	0.00	0.00	0.00	0.00	0.00	116.10	145.00	137.00	7.50	39.40	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	94.90	123.00	74.00	2.10	7.60	8.50	0.00
27	0.00	0.00	0.00	0.00	0.00	95.00	87.00	68.80	5.00	0.00	0.20	0.00
28	0.00	0.00	0.00	0.00	0.00	187.00	72.00	32.80	5.50	8.60	0.00	0.00
29	0.00	0.00	12.50	0.00	0.00	132.00	175.00	84.32	1.00	1.60	0.00	0.00
30	0.00	0.00	4.00	4.76	0.00	153.00	236.00	34.00	36.60	3.80	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	203.00	203.00	6.00	15.00	15.00	0.00	0.00
Total	2.7	0.0	128.9	67.1	142.2	1199.9	2929.7	2533.9	786.2	143.4	130.5	23.0
				Total =	8087.6	mm			Max =	279.4	mm	

Rainfall for the year 1998

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.00	0.00	12.00	0.80	0.00	283.00	36.00	48.00	3.40	6.40	0.00
2	0.00	0.00	0.00	0.00	0.70	0.00	218.00	3.00	18.60	3.40	11.00	0.00
3	0.00	0.00	0.00	0.00	3.00	0.00	160.00	25.00	21.30	29.00	3.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	193.00	53.00	32.00	31.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	170.00	17.70	20.00	12.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	91.00	25.20	9.80	0.00	7.50	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	94.00	26.00	14.00	0.00	4.00	0.00
8	0.00	0.00	0.00	0.00	0.00	35.00	154.20	81.80	71.00	0.00	46.00	0.00
9	0.00	0.00	0.00	0.00	0.00	87.00	185.00	141.00	84.00	2.40	25.00	0.00
10	0.00	0.00	0.00	8.86	0.00	53.00	75.00	133.00	23.00	18.80	0.00	1.60
11	0.00	0.00	0.00	0.00	22.40	28.00	95.00	146.00	76.00	24.40	0.00	0.00
12	0.00	0.00	0.00	0.00	1.60	19.30	58.00	49.00	140.00	25.00	4.90	0.00
13	0.00	0.00	0.00	0.00	7.20	16.10	36.00	31.20	79.00	12.90	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	34.00	26.00	2.00	106.00	37.40	0.00	0.00
15	0.00	0.00	0.00	0.00	17.60	17.00	0.80	0.00	79.00	71.00	0.00	0.00
16	0.00	0.00	0.00	0.00	1.20	51.00	36.20	0.40	27.00	62.00	43.00	18.00
17	0.00	0.00	0.00	0.00	0.00	27.90	6.16	2.30	14.40	43.00	2.00	0.00
18	0.00	0.00	0.00	0.00	0.00	14.18	8.00	30.60	3.00	25.40	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	57.00	5.80	27.60	0.20	5.60	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	100.16	11.00	31.00	17.00	0.00	4.00	0.00
21	0.00	0.00	0.00	1.40	0.00	91.90	4.00	10.40	5.20	0.00	22.40	0.00
22	0.00	0.00	0.00	0.00	0.00	89.60	7.80	0.10	36.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	104.92	26.00	8.00	19.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	93.00	63.00	38.00	6.20	0.00	0.00	0.00
25	0.00	0.00	0.00	46.00	0.80	104.80	79.00	121.40	26.00	0.00	0.60	0.00
26	0.00	0.00	0.00	0.00	24.20	100.36	38.00	54.40	1.00	0.00	0.00	0.00
27	0.00	0.00	4.00	0.00	0.60	116.00	58.90	64.60	1.60	27.60	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	195.60	139.00	15.00	51.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	166.10	258.00	5.00	28.00	0.00	0.00	0.00
30	0.00	0.00	0.00	25.00	0.00	243.00	124.00	3.10	16.40	8.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	79.00	5.00	5.00	0.00	0.00	0.00	0.00
Total	0.0	0.0	4.0	93.3	80.1	1844.9	2782.9	1186.8	1073.7	442.3	179.8	19.6
				Total =	7707.3	mm			Max =	283.0	mm	

Rainfall for the year 1999

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.00	0.00	0.00	0.00	2.00	42.30	107.00	19.58	9.20	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	16.92	40.90	121.50	13.80	11.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	33.40	27.20	159.00	20.60	9.80	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	10.00	25.00	108.00	33.80	71.00	0.40	0.00
5	0.00	0.00	0.00	0.00	10.80	8.00	45.50	102.00	22.80	9.00	0.00	0.00
6	0.00	0.00	0.00	0.00	27.80	0.00	58.40	138.60	23.60	16.00	0.00	0.00
7	0.00	0.00	0.00	0.00	2.20	3.40	42.00	180.00	7.80	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	3.96	1.80	76.80	138.00	10.00	0.00	0.00	0.00
9	0.00	0.00	0.00	6.80	0.00	16.00	138.60	147.00	13.60	2.00	0.00	0.00
10	0.00	0.00	0.00	3.00	6.66	22.00	53.40	17.00	25.00	8.00	0.00	0.00
11	0.00	0.00	0.00	0.00	11.80	71.90	27.80	26.00	17.20	13.00	0.00	0.00
12	0.00	0.00	0.00	3.00	0.94	179.00	45.60	16.80	19.00	7.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	36.00	69.40	16.00	21.00	1.60	0.00	0.00
14	0.00	0.00	0.00	0.00	31.52	59.00	87.60	19.20	11.00	27.00	0.00	0.00
15	0.00	0.00	0.00	0.00	5.00	30.00	90.00	17.00	13.60	1.60	0.00	0.00
16	0.00	0.00	0.00	0.00	5.40	77.20	68.00	13.20	27.40	40.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.20	95.60	140.50	2.40	0.60	25.60	0.00	0.00
18	0.00	0.00	0.00	0.00	0.60	167.40	122.80	22.20	0.20	41.00	0.00	0.00
19	0.00	0.00	0.00	0.00	24.00	129.00	102.00	3.40	0.00	0.20	0.00	0.00
20	0.00	0.00	0.00	0.00	36.00	158.80	60.60	13.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	57.40	42.90	74.20	5.00	0.00	44.60	0.00	0.00
22	0.00	0.00	0.00	6.00	14.00	36.00	108.80	0.70	0.00	48.00	0.00	0.00
23	0.00	0.00	0.60	3.80	46.60	20.00	48.00	0.20	0.00	14.00	0.00	0.00
24	0.00	0.00	0.00	17.00	81.66	4.60	73.80	15.00	0.00	1.00	0.00	0.00
25	0.00	0.00	0.00	0.00	42.00	41.70	145.00	41.60	11.20	42.00	0.00	0.00
26	0.00	0.00	0.00	0.00	14.60	0.30	123.00	45.00	1.20	1.00	0.00	0.00
27	0.00	0.00	0.00	0.00	29.40	15.60	87.00	32.00	0.00	22.60	0.00	0.00
28	0.00	0.00	0.00	0.00	3.60	0.00	107.80	4.00	0.00	44.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.20	15.00	133.20	8.80	1.00	65.00	0.00	0.00
30	0.00	0.00	0.00	0.00	11.30	5.10	120.00	7.40	0.00	2.60	0.00	0.00
31	0.00	0.00	0.00	0.00	11.00	97.00	13.00	0.00	0.00	0.00	0.00	0.00
Total	0.0	0.0	0.6	39.6	478.6	1298.6	2482.2	1540.0	314.0	577.8	0.4	0.0
	Total = 6731.8 mm											
	Max = 180.0 mm											

Rainfall for the year 2000

unit: mm

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.00	0.00	0.00	0.00	14.00	66.00	0.00	39.00	89.60	0.00	0.00
2	0.00	0.00	0.00	0.00	7.20	21.00	45.60	2.00	151.20	8.60	0.00	0.00
3	0.00	0.00	0.00	5.00	0.00	20.40	4.60	35.00	82.50	2.00	0.00	0.00
4	0.00	0.00	0.00	1.00	0.00	25.40	47.80	12.40	52.00	3.70	0.00	0.00
5	0.00	0.00	0.00	0.00	7.60	33.40	19.40	3.00	6.00	1.10	0.00	0.00
6	0.00	0.00	0.00	0.00	1.60	181.00	20.00	4.00	11.80	2.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	78.00	71.40	45.00	28.00	2.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	84.00	178.00	81.80	1.20	20.10	0.00	0.00
9	0.00	0.00	0.00	0.00	2.80	77.00	136.00	81.00	13.00	11.00	0.00	0.00
10	0.00	0.00	0.00	0.20	44.20	53.20	191.00	60.60	7.80	25.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	48.00	267.00	82.60	1.10	9.00	0.00	0.00
12	0.00	0.00	0.00	0.60	0.00	33.00	242.50	36.00	0.70	9.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	11.00	198.50	0.40	38.80	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	17.00	137.00	0.00	27.00	13.20	0.00	0.00
15	0.00	0.00	0.00	0.00	0.40	21.00	31.80	18.00	2.00	5.20	0.00	0.00
16	0.00	0.00	0.00	7.00	7.00	178.00	96.80	25.40	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	1.00	35.00	76.00	90.80	21.60	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	8.60	55.20	125.20	45.60	23.20	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	7.80	50.60	128.40	34.40	64.00	12.80	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	3.00	99.20	20.20	82.00	47.80	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	1.80	20.00	1.40	155.90	6.00	0.40	0.00	0.00
22	0.00	0.00	0.00	0.00	2.20	4.00	0.00	245.00	37.70	9.80	0.00	0.00
23	0.00	0.00	0.00	37.00	0.00	17.00	0.64	220.20	0.00	0.00	4.40	0.00
24	0.00	0.00	0.00	3.00	3.00	6.00	0.00	204.60	5.40	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	17.00	0.00	212.90	53.90	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	18.60	12.20	7.80	78.90	5.20	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	6.00	32.80	15.00	88.60	3.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	10.30	39.20	25.00	132.00	3.60	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	2.80	32.20	3.40	78.80	8.80	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	11.10	49.40	1.60	43.00	6.00	0.00	7.00	0.00
31	0.00	0.00	0.00	0.00	21.10	1.00	1.00	36.00	0.00	0.00	0.00	0.00
Total	0.0	0.0	0.0	71.2	291.5	1554.0	2000.2	2173.9	652.3	211.7	11.4	0.0

Total = 6966.2 mm

Max = 267.0 mm

Rainfall for the year 2001

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	19.00	0.00	0.00	0.00	0.00	39.00	22.20	4.80	6.80	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	61.00	55.60	0.60	1.20	0.00	0.00
3	0.00	0.00	0.00	0.00	0.60	0.00	148.00	63.00	1.20	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	1.80	85.00	76.00	0.00	4.40	0.00	0.00
5	0.00	0.00	0.00	0.00	1.60	44.20	136.00	50.20	0.00	27.60	15.40	0.00
6	0.00	0.00	0.00	0.00	0.00	30.00	136.00	62.50	0.00	28.40	9.00	0.00
7	0.00	0.00	0.00	0.00	0.00	40.70	194.00	54.00	0.00	36.60	34.80	0.00
8	0.00	0.00	0.00	0.10	0.00	30.00	255.00	29.00	0.20	16.10	8.30	0.00
9	0.00	0.00	0.00	0.20	0.00	31.00	195.00	17.00	1.60	3.60	0.00	0.00
10	0.00	0.00	0.00	16.40	0.00	57.00	221.00	40.00	0.00	21.00	0.00	0.00
11	0.00	0.00	0.00	24.80	0.00	125.20	102.40	25.30	0.00	69.60	0.00	0.00
12	0.00	0.00	0.00	36.40	0.00	185.00	56.00	43.20	0.00	2.00	0.00	0.00
13	0.00	0.00	0.00	1.60	0.00	136.00	71.00	75.00	0.00	1.20	0.00	0.00
14	0.00	0.00	0.00	14.80	0.00	221.00	31.00	90.00	25.30	24.80	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	187.00	28.00	82.28	1.20	5.00	12.00	0.00
16	0.00	0.00	0.00	3.20	0.00	125.80	69.00	65.00	12.00	3.70	44.00	0.00
17	0.00	0.00	0.00	11.00	0.00	58.00	58.00	75.00	0.00	0.80	0.00	0.00
18	0.00	0.00	0.00	2.60	0.00	190.00	31.00	102.00	3.00	0.20	0.00	0.00
19	0.00	0.00	0.00	0.60	0.00	56.00	18.00	60.00	111.80	12.70	0.00	0.00
20	0.00	0.00	0.00	4.00	1.00	32.10	45.00	85.00	24.00	13.60	0.00	0.00
21	0.00	0.00	0.00	1.20	2.20	32.00	26.00	106.10	7.00	0.00	0.00	0.00
22	0.00	0.00	0.00	7.00	1.90	79.60	15.90	52.00	3.40	0.00	3.00	0.00
23	0.00	0.00	0.00	3.00	10.00	72.00	36.20	94.00	36.10	0.00	6.00	0.00
24	0.00	0.00	0.00	0.00	19.20	114.00	56.00	33.70	3.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	22.00	24.00	5.00	40.00	25.00	18.70	0.00	0.00
26	0.00	0.00	0.00	0.00	34.60	40.20	14.80	10.70	9.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	22.00	19.80	38.60	16.00	18.40	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	26.00	24.40	26.00	20.50	12.10	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	12.60	18.50	32.00	18.52	6.70	0.00	0.00	0.00
30	0.00	0.00	0.00	0.40	6.60	17.00	17.50	17.00	3.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.40	0.40	4.00	4.00	13.80	4.00	0.00	0.00	0.00
Total	0.0	19.0	0.0	127.3	160.7	1992.3	2251.4	1594.6	309.4	298.0	132.5	0.0
				Total =	6885.2	mm			Max =	255.0	mm	

Rainfall for the year 2002

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.00	0.00	0.00	0.00	9.00	38.00	35.80	26.80	10.40	1.00	0.00
2	0.00	0.00	0.00	0.00	0.00	23.60	36.60	38.40	21.20	0.00	0.20	0.00
3	0.00	0.00	0.00	0.00	0.00	37.00	33.80	51.60	22.20	20.80	0.00	0.00
4	0.00	0.00	0.00	0.00	0.20	5.00	46.00	56.00	13.50	0.00	0.00	0.00
5	0.00	0.40	0.00	1.00	0.00	1.60	32.00	112.40	53.40	0.00	0.00	0.00
6	0.00	7.60	0.00	2.00	0.00	1.00	6.30	112.00	95.80	0.00	0.00	0.00
7	0.00	14.00	0.00	0.00	0.00	1.00	5.00	64.60	31.30	14.40	0.00	0.00
8	0.60	0.00	0.00	0.40	0.00	22.80	7.00	119.00	86.00	20.00	0.00	0.00
9	0.00	2.00	0.00	0.20	0.00	56.00	32.00	101.00	46.00	12.40	0.00	0.00
10	0.00	0.00	0.00	17.40	0.00	6.00	48.60	173.00	1.00	11.40	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	4.00	106.00	142.00	11.10	64.80	0.00	0.00
12	0.00	0.00	0.00	5.00	0.00	8.60	102.00	173.40	9.00	117.00	0.00	0.00
13	0.00	0.00	0.00	4.80	1.80	30.00	31.00	168.00	0.00	88.80	0.00	0.00
14	0.00	0.00	0.00	4.68	0.00	67.00	23.80	74.00	15.60	25.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	43.60	12.00	57.00	19.50	2.00	0.00	0.00
16	0.00	0.00	0.00	0.00	10.60	27.00	77.00	256.00	2.40	1.80	0.00	0.00
17	0.00	0.00	0.00	0.00	14.20	21.20	9.60	151.40	0.40	10.20	0.00	0.00
18	0.00	0.00	0.00	0.00	11.00	50.00	8.00	213.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	12.00	50.00	27.00	89.00	0.00	6.90	0.00	0.00
20	0.00	0.00	0.00	0.00	4.00	86.00	14.00	79.40	0.00	4.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	83.00	6.20	43.00	0.00	2.60	0.00	0.00
22	0.00	0.00	0.00	0.00	15.00	113.00	27.20	21.40	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	4.40	186.00	21.00	18.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	4.40	128.00	7.00	40.60	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	1.20	84.00	18.00	14.80	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	76.00	8.60	6.40	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	4.60	0.00	44.00	17.00	1.40	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	15.00	11.20	0.00	6.20	21.00	0.00	0.00
29	0.00	0.00	0.00	0.00	7.00	7.90	14.20	0.00	1.20	10.00	0.00	0.00
30	0.00	0.00	0.00	0.00	8.00	10.44	12.80	0.00	12.60	2.00	0.00	0.00
31	0.00	0.00	2.00	0.00	1.40	23.40	0.00	0.60	0.00	0.00	0.00	0.00
Total	0.6	24.0	2.0	40.1	95.2	1297.7	862.3	2413.2	475.2	445.5	1.2	0.0
				Total =	5657.0	mm			Max =	256.0	mm	

Rainfall for the year 2003

unit : mm

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	3.80	0.00	0.00	0.00	0.00	42.20	23.40	40.00	20.40	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	18.00	23.00	14.00	3.80	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	35.90	25.00	34.40	27.00	1.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.50	90.60	16.00	12.60	22.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.20	6.20	95.00	28.00	37.80	27.20	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	5.00	37.00	100.00	31.20	13.60	1.00	0.00
7	0.00	0.00	0.00	0.00	0.00	4.30	53.80	141.00	21.60	42.00	3.80	0.00
8	0.00	0.00	0.00	0.00	0.00	2.80	43.00	45.00	23.20	8.90	9.30	0.00
9	0.00	0.00	0.00	0.20	0.00	6.00	27.70	33.30	9.20	4.00	4.20	0.00
10	0.00	0.00	0.00	3.40	0.00	13.10	45.60	12.40	4.00	1.10	0.00	0.00
11	0.00	0.00	0.00	5.80	0.00	24.40	16.00	7.70	2.00	15.00	0.00	0.00
12	0.00	0.00	0.00	12.60	0.00	49.40	35.00	15.80	5.00	0.50	0.00	0.00
13	0.00	0.00	5.30	6.00	0.00	24.10	45.00	25.50	6.00	0.20	0.00	0.00
14	0.00	0.00	0.70	0.00	0.00	66.60	67.00	35.00	30.00	3.20	0.00	0.00
15	0.00	8.20	0.00	0.00	0.00	49.50	86.00	47.00	33.40	0.90	2.40	0.00
16	0.00	0.00	0.00	1.60	0.00	40.00	145.00	20.60	17.00	1.70	5.00	0.00
17	0.00	0.00	0.00	0.60	0.00	52.00	103.00	29.00	9.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	100.00	18.00	28.00	16.00	19.70	0.00	0.00
19	0.00	0.00	0.00	0.60	0.00	157.10	8.60	13.00	27.40	10.70	0.00	0.00
20	0.00	0.00	13.00	1.60	0.40	85.40	6.00	300.00	2.80	9.20	0.00	0.00
21	0.00	0.00	3.80	1.50	0.80	86.40	21.00	83.30	0.80	18.40	0.00	0.00
22	0.00	0.00	0.00	6.00	0.30	157.50	40.00	131.00	0.00	13.80	0.60	0.00
23	0.00	0.00	0.00	0.00	2.00	43.90	100.00	88.00	22.30	8.10	1.10	0.00
24	0.00	0.00	0.00	0.00	3.00	27.60	98.20	31.00	1.00	2.00	0.00	0.00
25	0.00	0.00	0.00	0.00	3.10	26.00	103.00	68.00	5.00	1.50	0.00	0.00
26	0.00	0.00	0.00	0.00	4.80	18.40	98.00	21.00	3.60	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	3.90	24.80	150.60	48.00	3.30	0.00	0.00	0.00
28	0.00	0.00	19.00	0.00	4.50	9.00	126.00	35.00	8.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	1.60	25.50	16.00	28.00	0.90	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.40	18.90	10.00	17.40	2.30	2.20	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	18.90	6.80	20.00	0.00	0.00	0.00	0.00
Total	0.0	12.0	41.8	39.9	25.0	1124.4	1788.0	1539.4	423.8	277.1	28.4	0.0
				Total =	5299.8	mm			Max =	300.0	mm	

STATION :VG

TALUK :Sakaleshpur
Rainfall for the year 1988

DISTRICT :Hassan

unit : mm

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.00	0.00	0.00	0.00	6.64	40.72	90.44	19.50	26.80	0.00	0.00
2	0.00	0.00	0.00	0.00	0.12	17.00	17.50	260.56	43.20	61.20	0.00	0.00
3	0.00	0.00	0.00	0.00	0.84	3.84	4.00	336.60	42.44	14.00	0.00	0.00
4	0.00	0.00	0.00	0.00	3.00	2.60	7.78	237.00	6.00	5.36	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	11.32	4.20	40.10	0.30	34.38	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	3.86	7.74	4.16	50.30	13.56	0.14	0.00
7	0.00	0.00	0.00	0.00	2.50	10.60	4.00	1.76	20.40	6.40	6.50	0.00
8	0.00	0.00	0.00	1.00	0.00	23.50	45.02	45.80	20.90	0.20	0.00	0.00
9	0.00	0.00	0.00	0.00	0.36	32.30	5.14	20.00	58.10	11.22	0.00	0.00
10	0.00	0.00	0.00	19.70	0.00	37.60	65.76	9.64	11.30	7.00	0.00	0.00
11	0.00	0.00	0.00	1.06	0.24	21.78	20.80	2.70	8.16	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	20.06	40.28	2.44	2.00	0.00	0.00	1.50
13	0.00	0.00	0.00	0.80	0.00	29.44	71.90	4.68	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	16.00	0.00	24.00	109.40	19.30	16.00	0.00	0.00	41.50
15	0.00	0.00	0.00	1.68	0.00	26.64	121.64	25.30	13.40	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	36.80	211.60	93.50	24.28	0.00	0.00	0.00
17	0.00	0.00	0.00	10.00	0.00	15.04	327.52	80.00	31.06	0.00	0.00	0.00
18	0.00	0.00	0.00	2.24	0.00	15.20	234.00	67.50	49.60	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	24.70	235.86	252.40	46.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	17.38	124.90	67.20	64.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	10.36	67.50	14.40	31.70	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	38.76	54.44	15.20	32.00	0.00	0.00	0.00
23	0.00	0.00	0.00	2.20	0.00	88.00	50.00	19.32	102.32	1.00	0.00	0.00
24	0.00	0.00	0.00	26.32	9.44	58.10	11.00	43.10	31.50	0.00	0.00	0.00
25	0.00	0.00	0.00	7.30	0.00	27.30	15.20	3.74	30.00	0.00	0.00	0.00
26	0.00	0.00	0.00	27.22	0.20	21.00	30.86	6.60	27.64	2.00	0.00	0.00
27	0.00	0.00	0.00	12.00	0.50	19.00	53.40	50.76	25.80	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	3.00	15.22	104.80	16.50	5.64	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.94	3.00	118.22	26.80	15.36	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	1.60	5.92	52.70	17.28	3.60	3.08	0.00	0.00
31	0.00	0.00	0.00	0.00	0.42	26.64	26.64	18.40	0.00	0.00	0.00	0.00
Total	0.0	0.0	0.0	127.5	23.2	667.0	2284.5	1893.2	832.5	186.2	6.6	43.0
				Total =	6063.7	mm			Max =	336.6	mm	

Rainfall for the year 1989

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.00	0.00	2.00	0.00	22.00	36.64	9.40	30.60	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	1.02	19.00	4.90	0.00	1.90	0.00	0.00
3	0.00	0.00	0.00	0.30	0.00	0.60	2.76	6.30	2.80	3.54	0.00	0.00
4	0.00	0.00	0.00	0.00	24.86	0.00	0.00	49.50	2.96	2.00	0.00	0.00
5	0.00	0.00	0.00	0.76	0.00	21.80	0.00	126.48	0.00	41.60	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	93.80	7.08	57.80	6.40	0.58	0.00	0.00
7	0.00	0.00	0.00	0.00	0.86	67.00	9.54	26.08	7.90	14.80	0.00	0.00
8	0.00	0.00	0.00	0.00	9.80	103.40	17.84	18.48	0.00	0.20	0.00	0.00
9	0.00	0.00	0.00	0.00	0.10	46.80	2.00	8.18	5.80	0.00	0.00	0.00
10	0.00	0.00	0.56	0.00	0.86	63.00	0.30	14.80	0.56	12.12	1.04	0.00
11	0.00	0.00	0.00	0.00	0.24	97.56	19.42	43.64	8.70	0.84	0.00	0.00
12	0.00	0.00	0.00	0.00	0.56	140.00	32.84	86.00	40.00	0.00	0.00	0.00
13	0.00	0.00	5.52	0.00	0.00	83.20	20.20	45.12	10.24	0.00	16.52	0.00
14	0.00	0.00	2.20	0.00	0.00	36.20	6.50	55.00	17.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	58.00	4.50	32.30	44.62	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.20	32.50	64.40	49.40	0.40	2.40	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	47.24	129.52	140.00	2.60	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.14	18.38	117.56	114.80	6.46	5.20	0.00	0.00
19	0.00	0.00	0.00	0.54	0.00	15.40	102.44	74.80	6.60	0.60	0.00	0.00
20	0.00	0.00	0.00	0.20	0.00	15.52	119.00	33.00	15.40	2.10	0.00	0.00
21	0.00	0.00	0.00	0.00	0.10	30.00	191.50	3.70	13.08	0.00	0.00	0.00
22	0.00	0.00	0.00	2.96	0.16	62.40	270.36	45.64	2.66	0.00	0.00	0.00
23	0.00	0.00	1.24	0.00	0.00	22.50	179.84	72.60	7.00	0.00	0.00	0.00
24	0.00	0.00	0.00	32.00	0.00	17.00	313.00	58.00	2.92	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	2.38	33.16	170.24	69.20	6.30	0.00	0.00	0.00
26	0.00	0.00	0.00	10.16	0.00	36.94	118.28	42.40	13.40	0.00	0.00	0.00
27	0.00	0.00	0.00	1.00	0.00	17.96	76.16	54.60	34.40	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	93.40	11.64	10.98	60.00	0.40	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	99.40	19.94	10.84	8.02	0.08	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	176.00	0.30	20.00	4.30	12.72	0.00	0.00
31	0.00	0.00	0.00	0.00	1.10	0.00	0.00	42.60	0.00	0.00	0.00	0.00
Total	0.0	0.0	9.5	49.9	41.4	1552.2	2062.8	1426.5	361.1	101.1	17.6	0.0
	Total = 5622.1 mm											
	Max = 313.0 mm											

Rainfall for the year 1990

unit : mm

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.00	0.00	0.00	0.00	20.64	197.00	45.80	9.06	31.74	0.00	0.00
2	17.98	0.00	0.00	0.00	0.00	45.14	287.20	55.70	7.68	13.22	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	14.40	102.48	17.80	22.80	8.44	0.20	0.00
4	0.00	0.00	0.00	0.00	0.00	2.24	44.48	13.80	46.20	10.60	0.00	0.00
5	0.00	0.00	0.00	0.00	6.98	3.20	24.20	3.64	96.40	0.80	0.00	0.00
6	0.00	0.00	0.00	0.00	2.60	19.98	29.28	8.64	81.52	3.04	0.00	0.00
7	0.00	0.00	0.00	4.46	0.00	7.66	68.00	7.60	17.20	0.44	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	5.18	24.82	26.10	11.14	10.80	0.00	0.00
9	0.00	0.00	0.00	0.00	11.38	24.28	41.22	43.36	1.14	0.00	0.20	0.00
10	0.00	0.00	0.00	0.00	4.70	32.80	56.40	83.56	12.52	0.00	3.40	0.00
11	0.00	0.00	0.00	0.00	25.44	68.20	64.88	100.28	39.20	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	44.76	22.80	109.20	46.20	0.12	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	16.28	14.88	189.40	36.40	8.94	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	13.24	68.20	262.80	19.02	6.60	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	53.40	72.20	190.58	0.00	10.60	0.84	0.00
16	0.00	0.00	0.00	0.00	0.00	83.80	104.24	187.90	0.00	0.00	0.60	0.00
17	0.00	0.00	0.00	0.00	2.38	99.20	116.28	124.60	0.00	3.60	0.96	0.00
18	0.00	0.00	0.00	0.00	1.00	98.00	166.36	110.20	0.00	0.20	0.00	0.00
19	0.00	0.00	0.00	0.00	55.14	158.00	55.76	214.60	0.00	2.70	0.00	0.00
20	0.00	0.00	0.00	0.00	32.40	29.88	43.20	187.80	24.40	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	12.80	25.84	31.60	120.60	13.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	25.20	44.00	30.80	161.00	0.80	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	4.80	38.20	51.70	111.80	22.94	39.40	0.00	0.00
24	0.00	0.00	0.00	0.30	11.00	22.36	92.06	63.20	1.42	21.40	0.00	0.00
25	0.00	0.00	0.00	0.00	2.80	66.60	55.00	14.20	2.86	2.20	0.00	0.00
26	0.00	0.00	0.00	0.00	7.64	144.20	20.36	21.76	2.20	25.60	4.36	0.00
27	0.00	0.00	0.00	0.00	40.44	115.20	16.40	6.06	7.00	50.56	0.00	0.00
28	0.00	0.00	0.00	0.00	47.40	62.00	25.48	38.40	0.84	37.40	0.00	0.00
29	0.00	0.00	0.00	0.00	21.76	94.44	20.30	59.90	2.68	15.80	0.00	0.00
30	0.00	0.00	0.00	0.00	29.00	64.96	40.94	79.44	1.96	10.60	0.00	0.00
31	0.00	0.00	0.00	0.00	23.12	67.40	44.04	526.6	287.2	10.6	0.3	0.26
Total	18.0	0.0	0.0	4.8	368.0	1518.1	2055.9	2703.8	526.6	321.2	10.6	0.3

Total = 7527.1

mm

Max =

287.2

mm

Rainfall for the year 1991

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.00	0.00	0.00	0.00	0.40	36.40	65.52	1.22	0.00	0.00	0.00
2	0.00	0.00	0.00	21.08	0.00	19.40	10.14	14.36	0.00	2.00	0.50	0.00
3	0.00	0.00	0.00	0.00	0.00	18.80	12.92	19.20	0.00	6.00	22.00	0.00
4	0.00	0.00	0.00	7.28	4.92	72.36	40.84	8.20	0.00	5.72	11.76	0.00
5	0.00	0.00	0.00	0.00	5.74	50.00	92.60	6.86	0.00	34.00	14.16	0.00
6	0.00	0.00	0.00	1.02	0.00	83.50	58.80	13.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	213.60	36.80	43.60	0.20	0.84	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	198.60	79.88	62.56	19.60	4.76	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	184.50	67.80	80.90	0.00	11.86	0.00	0.00
10	0.00	0.00	0.20	33.68	0.00	485.40	60.64	60.20	0.00	5.56	0.00	0.00
11	0.00	0.00	0.00	32.40	2.12	141.80	71.68	63.40	0.00	1.38	0.00	0.00
12	0.00	0.00	0.00	0.00	0.44	69.80	134.32	69.40	7.72	8.96	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	5.70	88.32	174.60	0.60	2.70	0.00	0.00
14	0.00	0.00	0.00	0.48	22.60	5.32	76.44	121.40	27.20	0.00	0.00	0.00
15	0.00	0.00	1.00	2.18	2.00	13.54	159.64	107.16	7.26	0.00	0.40	0.00
16	0.00	0.00	0.00	0.00	0.00	49.20	137.80	74.82	1.00	16.80	0.82	0.00
17	0.00	0.00	0.00	0.00	0.00	44.80	100.00	51.44	0.00	37.08	5.40	0.00
18	0.00	0.00	0.00	1.36	0.00	14.20	63.72	48.00	0.00	3.28	0.00	0.00
19	0.00	0.00	0.00	0.64	0.00	60.16	89.46	12.24	0.00	2.80	0.00	0.00
20	0.00	0.00	0.00	0.00	4.32	102.20	98.44	38.78	0.20	0.00	0.00	10.46
21	0.00	0.00	0.00	6.60	10.12	5.80	99.64	41.66	21.04	5.68	0.00	0.00
22	0.00	0.00	0.00	3.50	2.40	9.80	80.40	53.60	17.40	1.30	0.00	0.00
23	0.00	0.00	0.00	24.80	25.40	12.20	90.40	49.44	25.84	3.14	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	21.00	84.20	38.60	7.20	0.00	0.00	0.00
25	0.00	0.00	0.00	0.10	31.60	62.80	130.42	44.24	8.20	0.00	0.00	0.00
26	0.00	0.00	0.00	0.90	0.00	35.80	416.80	8.20	1.20	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	18.68	104.60	517.80	7.20	6.40	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	5.04	36.40	228.40	6.64	16.22	4.76	0.00	0.00
29	0.00	0.00	0.00	0.00	13.56	7.00	242.36	14.80	1.24	34.80	0.00	0.00
30	0.00	0.00	0.00	0.00	6.88	69.44	161.48	1.60	0.00	5.84	0.00	0.00
31	0.00	0.00	0.00	0.00	0.28	97.28	97.28	5.88	0.00	0.60	0.00	0.00
Total	0.0	0.0	1.2	136.0	156.1	2198.1	3665.8	1407.5	169.7	199.9	55.0	10.5

unit: mm
 Max = 517.8 mm

Rainfall for the year 1992

unit: mm

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.00	0.00	0.00	1.80	0.20	18.00	29.94	27.98	23.10	0.00	0.00
2	0.00	0.00	0.00	0.00	0.60	48.64	1.80	37.00	63.50	21.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.60	30.36	106.44	23.80	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	27.10	0.00	15.00	60.92	82.88	0.00	0.00
5	0.00	0.00	0.00	0.00	13.20	23.60	2.26	3.80	71.00	115.06	0.00	0.00
6	0.00	0.00	0.00	0.00	1.00	0.00	11.52	1.44	122.00	2.16	0.00	0.00
7	0.00	0.00	0.00	0.00	1.16	5.00	15.00	11.84	116.12	10.80	0.00	0.00
8	0.00	0.00	0.00	16.26	1.14	1.60	17.00	11.32	54.80	6.36	11.00	0.00
9	0.00	0.00	0.00	0.00	1.08	0.40	9.00	66.00	32.94	3.22	8.18	0.00
10	0.00	0.00	0.00	0.00	2.54	0.00	8.00	83.00	8.10	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	9.06	7.52	43.00	167.00	0.80	3.60	0.00	0.00
12	0.00	0.00	0.00	0.00	10.08	14.40	35.14	238.40	0.58	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.40	51.88	44.00	216.80	0.00	1.18	0.00	0.00
14	0.00	0.00	0.00	0.00	15.22	7.96	30.08	161.56	0.00	4.20	7.18	0.00
15	0.00	0.00	0.00	0.00	5.20	90.56	42.00	123.92	0.60	45.00	#####	0.00
16	0.00	0.00	0.00	0.00	0.00	114.40	103.00	240.40	0.00	0.20	82.20	0.00
17	0.00	0.00	0.00	0.00	14.80	126.40	176.86	159.12	5.08	0.00	30.90	0.00
18	0.00	0.00	0.00	0.32	3.00	307.52	87.28	141.00	1.96	0.00	3.00	0.00
19	0.00	0.00	0.00	1.26	0.00	322.48	156.40	105.00	32.76	0.00	0.00	0.00
20	0.00	0.00	0.00	0.20	0.00	279.90	185.40	133.00	48.00	0.00	36.00	0.00
21	0.00	0.00	0.00	0.00	0.00	180.92	49.28	46.18	2.76	0.00	20.80	0.00
22	0.00	0.00	0.00	0.00	0.00	124.28	53.50	71.00	1.22	0.00	0.94	0.00
23	0.00	0.00	0.00	9.40	0.60	108.08	70.00	8.00	15.00	1.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	28.72	168.00	17.00	5.34	0.00	0.00	0.00
25	0.00	0.00	0.00	8.26	0.00	23.30	104.56	25.08	0.00	4.80	0.00	0.00
26	0.00	0.00	0.00	14.80	0.00	84.18	312.00	36.00	17.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.20	0.00	151.36	179.00	46.00	14.00	0.40	0.00	0.00
28	0.00	0.00	0.00	0.00	13.00	57.28	141.98	70.00	72.80	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	34.00	110.00	58.60	24.06	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	61.00	58.00	22.38	1.50	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	12.00	20.00	0.00	0.00	0.00	0.00	0.00
Total	0.0	0.0	0.0	50.7	93.9	2282.7	2244.7	2396.1	907.3	348.8	318.2	0.0

Total = 8642.3

mm

Max =

322.5

mm

Rainfall for the year 1993

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.00	0.00	0.00	0.00	1.08	69.00	193.88	12.04	2.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.40	140.00	110.48	15.50	42.90	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	5.26	121.00	130.58	21.84	20.42	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	2.32	28.06	19.80	26.00	9.64	1.50	0.00
5	0.00	0.00	0.00	0.00	0.00	11.00	35.50	7.00	42.08	2.32	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.40	5.94	3.00	20.84	4.08	0.00	0.20
7	0.00	0.00	0.00	0.00	0.00	4.50	30.10	22.70	21.96	1.60	0.00	17.04
8	0.00	0.00	0.00	0.00	23.44	10.08	36.60	18.64	8.64	2.24	0.40	6.20
9	0.00	0.00	0.00	0.00	0.72	19.56	122.56	41.00	4.20	12.00	2.10	0.00
10	0.00	0.00	0.00	16.50	0.00	26.88	77.80	65.00	0.50	11.08	7.00	0.00
11	0.00	0.00	0.00	0.00	0.00	71.00	163.78	81.44	6.96	4.70	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	53.30	114.00	86.40	5.00	5.00	1.80	0.00
13	0.00	0.00	0.00	0.00	0.00	49.00	184.72	62.56	10.48	21.60	0.00	0.00
14	0.00	0.00	0.00	0.00	22.26	64.00	170.92	149.20	4.90	10.20	0.00	0.00
15	0.00	0.00	0.00	0.20	4.50	67.00	144.00	186.72	11.48	15.56	0.00	0.00
16	0.00	0.00	0.00	0.00	1.50	99.00	97.00	116.20	0.16	2.80	3.12	0.00
17	0.00	0.00	0.00	11.00	19.00	106.28	13.24	47.60	0.18	1.20	0.00	0.00
18	0.00	0.00	0.00	46.00	0.00	142.40	7.24	27.24	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	2.66	15.00	76.58	2.42	21.40	0.66	45.00	0.00	0.00
20	0.00	0.00	0.00	0.00	5.02	18.36	3.48	76.00	0.00	29.10	0.00	0.00
21	0.00	0.00	0.00	2.52	19.18	9.24	8.84	35.10	0.00	17.00	0.00	0.00
22	0.00	0.00	0.00	4.80	17.70	18.32	14.12	32.28	1.80	8.64	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	1.88	15.46	20.08	21.40	3.02	0.00	0.00
24	0.00	0.00	0.00	1.08	0.00	0.96	24.50	38.60	6.38	0.00	0.00	0.00
25	0.00	0.00	0.00	4.00	0.00	12.00	53.22	32.00	0.68	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	2.20	32.00	56.16	63.80	3.72	0.00	0.00	0.00
27	0.00	0.00	0.00	0.60	0.00	10.84	73.30	7.56	3.34	0.00	0.00	0.00
28	0.00	0.00	0.00	4.02	2.24	8.00	113.00	8.64	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	2.90	0.00	8.92	197.92	50.00	0.00	1.26	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	36.24	179.62	51.00	2.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	184.96	184.96	19.00	0.00	0.00	0.00	0.00
Total	0.0	0.0	0.0	96.3	132.8	966.8	2488.5	1824.9	252.7	273.4	15.9	23.4

Total = 6074.7 mm
Max = 197.9 mm

Rainfall for the year 1994

unit: mm

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.00	0.00	0.00	0.00	1.00	71.08	109.00	172.00	19.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	20.00	97.00	98.60	104.08	9.30	5.80	0.00
3	0.00	0.00	0.00	5.00	0.00	33.40	13.72	66.40	92.00	31.08	3.20	0.00
4	0.00	0.00	0.00	0.00	0.00	128.20	14.00	34.24	57.00	17.00	1.88	0.00
5	0.00	0.00	0.00	9.80	20.76	97.00	46.20	7.52	102.08	27.40	0.00	0.00
6	0.00	0.00	0.00	0.00	0.40	33.90	8.92	7.24	65.00	30.80	0.00	0.00
7	0.00	0.00	0.00	0.00	0.08	20.32	12.00	7.52	10.00	4.00	0.00	0.00
8	0.00	0.00	0.00	0.00	1.60	53.00	41.00	0.64	6.40	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	25.40	122.00	4.00	10.08	17.32	0.00	0.00
10	0.00	0.00	0.00	24.26	0.00	43.00	198.60	20.00	4.64	19.08	0.00	0.00
11	0.00	0.00	0.00	36.40	0.00	125.60	303.44	34.00	0.00	0.28	0.00	0.00
12	0.00	0.00	0.00	0.84	0.00	138.20	368.72	35.76	0.52	47.00	0.00	0.00
13	0.00	0.00	0.00	0.40	0.00	188.00	244.20	2.68	0.44	23.40	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	116.84	291.20	2.64	5.60	11.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	118.00	171.00	2.00	1.00	16.72	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	68.14	169.40	26.00	0.00	14.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	57.06	60.16	49.00	0.00	0.00	0.00	0.00
18	14.00	0.00	0.00	0.00	0.00	65.24	88.88	71.80	0.60	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	79.44	149.60	50.20	0.00	2.10	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	20.08	162.00	28.16	0.00	2.80	0.00	0.00
21	0.00	0.00	0.00	0.00	0.68	2.52	145.00	27.68	0.00	0.10	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	23.00	88.00	19.04	0.00	5.04	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	19.00	94.68	73.00	0.00	17.60	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	94.00	88.60	40.00	0.00	24.02	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	66.00	86.80	40.40	0.00	5.26	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	123.00	71.48	114.00	2.56	37.00	0.00	0.00
27	0.00	0.00	0.00	0.00	7.66	98.08	107.80	93.00	2.30	26.40	0.00	0.00
28	0.00	0.00	0.00	0.00	36.40	189.00	68.00	89.20	16.00	4.52	0.00	0.00
29	0.00	0.00	0.00	0.00	0.40	136.76	84.80	82.24	5.68	6.84	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	97.00	106.40	114.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	86.20	171.40	171.40	0.00	0.00	0.00	0.00
Total	14.0	0.0	0.0	76.7	68.0	2280.2	3660.9	1521.4	658.0	419.1	10.9	0.0
				Total =		mm			Max =		mm	

Rainfall for the year 1995

unit: mm

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.00	0.00	0.00	0.00	0.00	58.00	16.36	214.00	5.20	0.00	0.00
2	0.00	0.00	0.00	0.00	0.40	0.00	57.00	89.00	183.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	18.90	103.90	236.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	4.60	2.24	6.16	44.60	105.80	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	22.00	0.00	21.00	12.94	67.00	2.04	23.00	0.00
6	0.00	0.00	0.00	26.10	10.20	0.00	48.34	13.42	48.30	3.00	3.36	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	23.00	64.16	29.00	6.26	0.00	0.00
8	0.00	0.00	0.00	0.00	7.00	0.00	18.12	87.00	12.00	0.12	0.00	0.00
9	0.00	0.00	0.00	0.00	2.00	7.36	45.00	18.92	7.04	5.56	0.00	0.00
10	0.00	0.00	0.00	0.00	7.00	13.00	196.00	0.20	0.00	32.00	0.00	0.00
11	0.00	0.00	0.00	0.00	12.00	67.00	212.00	13.00	0.00	1.48	0.00	0.00
12	0.00	0.00	0.00	0.00	53.00	87.00	162.10	7.80	5.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	28.80	75.40	92.14	13.20	2.10	0.60	0.00	0.00
14	0.00	0.00	0.00	0.00	89.00	29.40	48.72	9.54	45.34	3.00	0.00	0.00
15	0.00	0.00	0.00	0.00	1.46	7.14	63.00	6.18	46.00	0.00	0.00	0.00
16	0.00	0.00	0.00	1.30	2.78	10.00	263.00	33.80	19.48	0.00	0.00	0.00
17	0.00	0.00	0.00	16.90	0.00	4.84	46.26	31.00	28.56	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	9.40	133.76	1.00	14.34	19.36	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	4.42	212.00	21.40	5.58	0.20	0.00	0.00
20	0.00	0.00	0.00	24.00	0.00	8.10	100.80	26.44	0.00	0.20	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	10.00	111.10	0.40	16.00	0.00	0.00	0.00
22	0.00	0.00	0.00	1.40	0.00	5.56	35.40	0.00	0.20	0.00	0.00	0.00
23	0.00	0.00	0.00	16.50	0.00	7.00	34.00	26.00	0.00	7.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	3.48	13.00	2.10	0.00	14.70	4.00	0.00
25	0.00	0.00	0.00	0.00	7.06	16.80	17.24	14.00	1.70	2.48	19.60	0.00
26	0.00	0.00	0.00	0.00	0.00	51.40	68.70	93.16	0.00	1.60	0.00	0.00
27	0.00	0.00	0.00	0.00	7.42	44.64	45.00	17.20	0.00	14.00	0.00	0.00
28	0.00	0.00	0.00	0.00	1.00	68.10	3.10	116.96	1.20	0.60	0.00	0.00
29	0.00	0.00	0.00	22.30	2.60	54.00	6.00	137.70	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	5.32	15.00	94.00	48.10	209.00	5.00	0.00	0.00	0.00
31	0.00	0.00	0.00	113.8	11.40	680.3	33.20	150.20	1092.6	6.56	50.0	0.00
Total	0.0	0.0	0.0	113.8	284.7	680.3	2240.1	1380.6	1092.6	126.0	50.0	0.0
				Total =	5968.1	mm			Max =	263.0	mm	

Rainfall for the year 1996

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.00	0.00	0.00	0.00	4.24	0.00	134.80	2.34	15.20	0.00	0.00
2	0.00	0.00	0.00	1.04	0.00	1.78	0.20	29.50	2.60	91.40	42.00	0.00
3	0.00	0.00	0.00	17.00	0.00	8.44	3.10	63.10	5.94	42.60	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.50	59.40	12.40	1.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.60	29.60	11.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	15.20	124.60	6.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.80	0.60	36.40	4.60	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	4.10	2.64	22.00	9.00	0.00	0.00	0.96
9	0.00	0.00	0.00	0.00	0.00	8.00	0.00	84.80	7.00	18.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	2.30	31.00	27.90	11.00	12.00	0.00	0.40
11	0.00	0.00	0.00	10.78	0.00	1.00	33.40	12.50	20.60	1.90	0.00	0.00
12	0.00	0.00	0.00	0.60	0.00	30.60	67.00	25.70	23.20	3.00	1.20	0.00
13	0.00	0.00	0.00	15.02	0.00	104.40	18.80	27.00	42.00	8.70	2.20	0.00
14	0.00	0.00	0.00	0.40	0.00	348.00	53.40	26.90	2.76	13.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	114.00	82.00	22.54	16.30	0.00	0.00	5.82
16	0.00	0.00	0.00	3.22	0.00	127.70	103.20	16.00	11.90	8.20	0.00	33.44
17	0.00	0.00	0.00	0.00	0.00	242.00	122.80	12.80	18.86	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	132.00	150.60	48.20	8.80	2.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	88.60	102.80	19.00	11.70	16.50	0.00	0.00
20	0.00	0.00	0.00	0.00	2.00	52.60	161.50	1.30	17.70	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	41.80	147.00	6.80	2.92	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	13.46	272.60	5.20	0.00	0.00	4.00	0.00
23	0.00	0.00	0.00	3.24	4.20	40.80	274.60	10.96	37.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	3.96	185.80	94.00	1.46	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.40	146.10	72.00	6.60	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	2.00	0.00	127.00	32.00	5.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	1.20	186.90	71.00	29.40	1.80	0.00	0.00
28	0.00	0.00	0.00	0.00	12.00	0.00	119.40	88.76	97.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	5.60	108.00	64.00	20.90	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	6.50	6.78	77.90	4.20	1.60	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	111.80	111.80	0.40	11.00	11.00	0.00	0.00
Total	0.0	0.0	0.0	51.3	26.7	1384.6	2706.4	1273.4	447.6	246.3	49.4	40.6

Total = 6226.3 mm

Max = 348.0 mm

Rainfall for the year 1997

unit : mm

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.00	0.00	0.50	4.00	0.00	92.00	222.00	0.40	19.80	0.00	0.00
2	0.00	0.00	0.00	0.00	104.20	0.00	89.00	85.60	24.60	10.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.40	0.00	54.00	109.00	15.50	6.20	3.60	0.00
4	0.00	0.00	0.00	0.00	0.70	0.00	74.00	30.20	2.20	0.00	1.40	0.00
5	0.00	0.00	0.00	0.00	0.00	31.64	96.00	136.00	3.00	1.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	105.00	249.60	3.60	3.20	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	5.00	93.00	279.40	77.40	5.20	0.00	0.00
8	0.00	0.00	0.00	23.00	0.00	0.00	150.60	59.00	9.00	0.00	0.00	20.00
9	0.00	0.00	0.00	0.00	0.00	4.40	321.00	24.80	5.00	0.00	0.00	1.00
10	0.00	0.00	0.00	0.00	0.00	21.00	128.76	22.40	18.40	0.00	1.20	0.00
11	0.00	0.00	0.00	0.00	10.40	17.90	46.80	6.90	32.00	0.20	5.20	0.00
12	0.40	0.00	0.00	0.00	0.00	24.00	38.00	20.00	0.40	0.00	4.40	0.00
13	0.00	0.00	0.00	0.00	8.70	7.00	94.80	1.60	0.40	0.00	7.00	1.00
14	0.00	0.00	0.00	0.00	0.00	5.10	87.00	0.40	0.00	0.00	7.40	0.00
15	2.30	0.00	15.00	0.00	0.00	9.40	67.00	3.90	181.60	4.20	0.00	0.00
16	0.00	0.00	0.00	0.00	0.46	7.40	60.00	4.40	13.40	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	28.00	62.00	43.00	109.80	0.00	3.00	0.00
18	0.00	0.00	0.00	0.00	0.00	13.20	62.60	19.20	170.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	17.40	79.00	48.70	33.00	0.00	0.80	0.00
20	0.00	0.00	14.90	24.30	0.00	16.50	6.20	101.00	16.20	0.00	0.00	0.00
21	0.00	0.00	0.00	15.80	0.00	6.00	15.00	170.00	18.20	0.00	0.00	0.00
22	0.00	0.00	34.90	0.00	0.40	4.60	20.00	213.00	15.00	12.00	5.80	0.00
23	0.00	0.00	38.40	0.00	0.00	71.00	30.60	174.00	0.40	1.60	81.00	0.00
24	0.00	0.00	3.60	0.00	4.78	141.80	84.00	59.20	3.60	0.00	0.40	0.00
25	0.00	0.00	0.00	0.00	0.00	116.10	147.00	187.00	7.50	36.50	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	94.90	132.00	118.00	2.00	7.60	8.50	0.00
27	0.00	0.00	0.00	0.00	0.00	116.20	97.00	58.00	4.20	0.00	0.20	0.00
28	0.00	0.00	0.00	0.00	0.00	264.00	59.00	37.00	5.50	8.60	0.00	0.00
29	0.00	0.00	12.50	0.00	0.00	163.00	204.00	69.00	1.20	1.60	0.00	0.00
30	0.00	0.00	3.00	4.76	0.00	147.00	239.60	34.00	36.60	4.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00	200.00	6.00	0.00	19.60	0.00	0.00
Total	2.7	0.0	122.3	68.4	134.0	1332.5	3035.0	2592.3	810.1	141.3	129.9	22.0

Total = 8390.5

mm

Max =

321.0

mm

Rainfall for the year 1998

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.00	0.00	9.80	0.80	0.00	221.00	29.00	37.00	3.40	7.00	0.00
2	0.00	0.00	0.00	0.00	0.70	0.00	220.00	3.00	14.00	3.40	9.40	0.00
3	0.00	0.00	0.00	0.00	4.00	0.00	197.00	25.60	21.30	38.00	3.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	173.00	43.00	31.90	36.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	189.00	17.70	18.00	11.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	122.00	31.50	9.80	0.00	7.50	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	90.00	21.00	18.00	0.00	4.70	0.00
8	0.00	0.00	0.00	0.00	0.00	37.20	154.20	81.80	67.00	0.00	53.90	0.00
9	0.00	0.00	0.00	0.00	0.00	87.00	208.00	158.00	102.00	2.40	21.30	0.00
10	0.00	0.00	0.00	8.86	0.00	42.00	78.00	190.00	18.40	18.80	0.00	1.60
11	0.00	0.00	0.00	0.00	21.00	33.40	112.30	193.00	81.50	24.40	0.00	0.00
12	0.00	0.00	0.00	0.00	1.60	19.30	75.30	56.00	133.00	21.60	4.90	0.00
13	0.00	0.00	0.00	0.00	7.20	16.10	32.90	31.20	88.60	12.90	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	31.36	34.00	2.00	115.20	37.40	0.00	0.00
15	0.00	0.00	0.00	0.00	17.60	19.96	0.80	0.00	81.60	64.00	0.00	0.00
16	0.00	0.00	0.00	0.00	1.20	55.00	36.20	0.40	25.00	59.50	38.00	16.20
17	0.00	0.00	0.00	0.00	0.00	27.90	6.16	2.30	14.40	57.00	1.90	0.00
18	0.00	0.00	0.00	0.00	0.00	14.18	9.00	36.00	2.70	25.40	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	73.56	5.80	27.60	0.20	5.60	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	100.16	17.00	32.00	17.40	0.00	4.00	0.00
21	0.00	0.00	0.00	1.40	0.00	91.90	5.00	10.40	6.00	0.00	22.40	0.00
22	0.00	0.00	0.00	0.00	0.00	89.60	7.80	0.10	31.90	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	104.92	24.70	11.00	17.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	110.00	72.70	41.00	6.20	0.00	0.00	0.00
25	0.00	0.00	0.00	39.00	0.80	104.80	89.50	121.40	31.00	0.00	0.60	0.00
26	0.00	0.00	0.00	0.00	24.20	100.36	38.00	54.40	1.00	0.00	0.00	0.00
27	0.00	0.00	3.00	0.00	0.60	116.00	58.90	64.60	1.60	23.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	196.00	148.00	22.00	49.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	198.00	184.00	7.00	27.80	0.00	0.00	0.00
30	0.00	0.00	0.00	21.00	0.00	297.00	160.00	3.10	16.40	8.28	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	99.40	5.00	5.00	16.40	0.00	0.00	0.00
Total	0.0	0.0	3.0	80.1	79.7	1965.7	2869.7	1321.1	1084.9	452.1	178.6	17.8
				Total =	8052.6	mm			Max =	297.0	mm	

Rainfall for the year 1999

unit : mm

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.00	0.00	0.00	0.00	0.00	1.80	42.30	97.40	19.58	9.20	0.00	0.00		
2	0.00	0.00	0.00	0.00	0.00	16.92	40.90	121.50	13.80	11.40	0.00	0.00		
3	0.00	0.00	0.00	0.00	0.00	33.00	27.20	151.40	20.60	8.00	0.00	0.00		
4	0.00	0.00	0.00	0.00	0.00	13.00	25.00	108.00	33.80	82.00	0.40	0.00		
5	0.00	0.00	0.00	0.00	10.80	8.00	45.50	84.00	22.80	9.00	0.00	0.00		
6	0.00	0.00	0.00	0.00	22.00	0.00	58.40	138.60	23.60	18.00	0.00	0.00		
7	0.00	0.00	0.00	0.00	2.00	4.00	42.00	165.10	6.00	0.00	0.00	0.00		
8	0.00	0.00	0.00	0.00	3.96	1.80	76.80	110.90	12.00	0.00	0.00	0.00		
9	0.00	0.00	0.00	6.80	0.00	15.00	138.60	119.90	15.00	2.00	0.00	0.00		
10	0.00	0.00	0.00	2.40	6.66	18.20	53.40	20.90	20.00	8.00	0.00	0.00		
11	0.00	0.00	0.00	0.00	10.00	69.00	27.80	26.00	17.20	11.60	0.00	0.00		
12	0.00	0.00	0.00	3.20	0.94	143.00	38.00	14.00	16.60	7.00	0.00	0.00		
13	0.00	0.00	0.00	0.00	0.00	40.00	71.00	14.40	21.00	1.60	0.00	0.00		
14	0.00	0.00	0.00	0.00	39.00	59.00	87.00	18.00	11.00	22.20	0.00	0.00		
15	0.00	0.00	0.00	0.00	6.00	28.50	90.00	20.98	13.60	1.60	0.00	0.00		
16	0.00	0.00	0.00	0.00	5.00	77.20	60.00	13.20	27.40	41.00	0.00	0.00		
17	0.00	0.00	0.00	0.00	0.20	86.00	140.50	3.00	0.60	25.60	0.00	0.00		
18	0.00	0.00	0.00	0.00	0.60	181.00	122.80	21.00	0.20	42.00	0.00	0.00		
19	0.00	0.00	0.00	0.00	28.30	159.00	136.00	3.40	0.00	0.20	0.00	0.00		
20	0.00	0.00	0.00	0.00	33.00	159.00	60.60	16.00	0.00	0.00	0.00	0.00		
21	0.00	0.00	0.00	0.00	57.40	42.90	74.20	6.20	0.00	44.60	0.00	0.00		
22	0.00	0.00	0.00	7.00	11.20	36.00	108.80	0.70	0.00	72.00	0.00	0.00		
23	0.00	0.00	0.60	3.00	44.00	20.60	43.40	0.20	0.00	15.40	0.00	0.00		
24	0.00	0.00	0.00	19.00	87.00	4.60	73.80	15.60	0.00	1.00	0.00	0.00		
25	0.00	0.00	0.00	0.00	46.00	41.70	136.80	41.60	13.00	48.00	0.00	0.00		
26	0.00	0.00	0.00	0.00	14.60	0.30	132.00	39.40	1.20	1.00	0.00	0.00		
27	0.00	0.00	0.00	0.00	29.40	15.60	97.00	28.60	0.00	22.60	0.00	0.00		
28	0.00	0.00	0.00	0.00	3.60	0.00	107.80	4.80	0.00	42.00	0.00	0.00		
29	0.00	0.00	0.00	0.00	0.20	14.20	133.20	11.00	1.00	67.00	0.00	0.00		
30	0.00	0.00	0.00	0.00	11.30	5.10	120.00	7.40	0.00	2.60	0.00	0.00		
31	0.00	0.00	0.00	0.00	11.26	97.00	97.00	13.00	0.00	0.00	0.00	0.00		
Total	0.0	0.0	0.6	41.4	484.4	1294.4	2507.8	1436.2	310.0	616.6	0.4	0.0		
				Total =	6691.8	mm							mm	
				Total =	6691.8							Max =	181.0	mm

Rainfall for the year 2000

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.00	0.00	0.00	0.00	16.60	57.40	0.00	39.10	83.00	0.00	0.00
2	0.00	0.00	0.00	0.00	6.00	21.00	39.00	2.00	122.00	8.00	0.00	0.00
3	0.00	0.00	0.00	5.00	0.00	20.40	4.00	35.00	93.00	2.00	0.00	0.00
4	0.00	0.00	0.00	1.00	0.00	25.40	55.00	11.00	57.00	3.00	0.00	0.00
5	0.00	0.00	0.00	0.00	7.60	33.40	24.00	3.80	6.00	1.00	0.00	0.00
6	0.00	0.00	0.00	0.00	1.60	186.00	20.00	3.80	11.00	2.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	98.00	80.00	56.00	23.20	2.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	94.40	146.60	83.00	1.20	20.10	0.00	0.00
9	0.00	0.00	0.00	0.00	2.80	63.40	128.80	69.80	10.00	9.10	0.00	0.00
10	0.00	0.00	0.00	0.20	43.00	53.20	154.20	74.00	7.80	26.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	48.00	299.00	84.00	1.10	8.00	0.00	0.00
12	0.00	0.00	0.00	0.60	0.00	29.00	243.00	33.00	0.70	9.40	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	10.00	218.00	0.40	38.80	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	16.20	128.80	0.00	25.00	13.20	0.00	0.00
15	0.00	0.00	0.00	0.00	0.40	18.00	31.80	19.00	2.00	5.20	0.00	0.00
16	0.00	0.00	0.00	6.00	5.60	136.00	116.00	25.40	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	1.00	31.00	64.00	78.00	18.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	7.00	58.00	95.00	51.00	21.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	7.80	54.00	128.40	26.00	54.50	11.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	3.00	115.00	20.00	71.00	40.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	1.80	16.20	1.40	155.90	5.60	0.40	0.00	0.00
22	0.00	0.00	0.00	0.00	2.20	5.20	0.00	232.00	36.00	9.80	0.00	0.00
23	0.00	0.00	0.00	36.00	0.00	17.00	0.64	214.00	0.00	0.00	4.40	0.00
24	0.00	0.00	0.00	2.80	3.40	7.20	0.00	193.00	6.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	14.20	0.00	216.00	53.90	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	18.60	12.20	7.80	79.00	5.20	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	7.00	32.80	12.00	68.00	3.90	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	12.00	39.20	29.00	117.00	3.60	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	2.80	32.20	3.00	78.80	8.80	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	11.10	51.00	1.60	47.00	6.00	0.00	6.00	0.00
31	0.00	0.00	0.00	0.00	21.10	1.00	1.00	32.00	0.00	0.00	0.00	0.00
Total	0.0	0.0	0.0	67.4	293.0	1498.6	1977.0	2097.4	617.9	202.2	10.4	0.0
				Total =	6763.9	mm		Max =		299.0	mm	

Rainfall for the year 2001

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	19.00	0.00	0.00	0.00	0.00	31.00	22.00	6.00	6.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	51.00	55.60	0.60	1.20	0.00	0.00
3	0.00	0.00	0.00	0.00	0.60	0.00	144.00	78.30	1.20	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	1.80	109.00	86.00	0.00	4.40	0.00	0.00
5	0.00	0.00	0.00	0.00	1.60	45.00	122.00	50.20	0.00	27.60	15.40	0.00
6	0.00	0.00	0.00	0.00	0.00	23.00	122.00	62.50	0.00	26.00	9.00	0.00
7	0.00	0.00	0.00	0.00	0.00	46.00	208.00	68.00	0.00	36.60	34.80	0.00
8	0.00	0.00	0.00	0.10	0.00	30.00	260.00	34.20	0.20	14.00	8.30	0.00
9	0.00	0.00	0.00	0.20	0.00	35.20	165.90	18.00	1.60	3.60	0.00	0.00
10	0.00	0.00	0.00	16.40	0.00	71.00	217.80	31.00	0.00	18.10	0.00	0.00
11	0.00	0.00	0.00	22.00	0.00	122.00	102.40	25.30	0.00	69.60	0.00	0.00
12	0.00	0.00	0.00	33.00	0.00	143.00	56.00	43.20	0.00	2.00	0.00	0.00
13	0.00	0.00	0.00	1.60	0.00	136.00	62.80	75.30	0.00	1.20	0.00	0.00
14	0.00	0.00	0.00	14.80	0.00	197.00	33.20	78.20	25.30	30.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	123.00	28.00	75.40	1.00	7.00	12.00	0.00
16	0.00	0.00	0.00	4.00	0.00	118.00	67.30	77.20	11.50	3.70	44.00	0.00
17	0.00	0.00	0.00	12.00	0.00	59.00	60.00	79.40	0.00	1.00	0.00	0.00
18	0.00	0.00	0.00	2.60	0.00	174.00	36.00	107.90	3.00	0.20	0.00	0.00
19	0.00	0.00	0.00	0.60	0.00	77.00	19.00	47.00	111.80	12.70	0.00	0.00
20	0.00	0.00	0.00	3.00	1.00	28.00	35.00	67.00	27.60	13.60	0.00	0.00
21	0.00	0.00	0.00	1.20	2.20	34.40	34.60	117.00	5.80	0.00	0.00	0.00
22	0.00	0.00	0.00	7.00	1.90	68.00	15.90	53.00	4.00	0.00	3.00	0.00
23	0.00	0.00	0.00	3.00	8.80	71.00	38.00	75.60	36.10	0.00	6.00	0.00
24	0.00	0.00	0.00	0.00	19.20	79.00	54.40	33.70	3.60	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	23.10	18.00	5.60	33.00	21.40	18.70	0.00	0.00
26	0.00	0.00	0.00	0.00	34.60	40.20	14.80	13.00	10.40	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	22.30	19.80	38.60	20.00	14.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	26.00	29.00	34.30	18.00	12.10	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	13.00	23.00	41.60	20.00	8.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.40	6.60	14.50	15.00	17.00	2.90	0.00	0.00	0.00
31	0.00	0.00	0.00	0.40	0.40	4.90	4.90	13.80	2.90	0.00	0.00	0.00
Total	0.0	19.0	0.0	121.9	161.3	1825.9	2228.1	1595.8	308.1	297.2	132.5	0.0
				Total =	6689.8	mm			Max =	260.0	mm	

Rainfall for the year 2002

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.00	0.00	0.00	0.00	7.00	38.00	35.80	26.80	10.40	1.00	0.00
2	0.00	0.00	0.00	0.00	0.00	20.00	41.00	43.00	21.20	0.00	0.20	0.00
3	0.00	0.00	0.00	0.00	0.00	30.70	33.00	61.00	26.00	24.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.20	5.80	37.00	49.00	13.50	0.00	0.00	0.00
5	0.00	0.40	0.00	1.00	0.00	2.00	42.00	119.00	61.00	0.00	0.00	0.00
6	0.00	7.60	0.00	2.00	0.00	1.00	6.30	112.20	100.00	0.00	0.00	0.00
7	0.00	14.00	0.00	0.00	0.00	1.00	4.00	64.60	36.00	12.00	0.00	0.00
8	0.60	0.00	0.00	0.40	0.00	22.80	10.00	105.60	54.00	20.00	0.00	0.00
9	0.00	2.00	0.00	0.20	0.00	58.00	33.00	102.60	41.00	12.00	0.00	0.00
10	0.00	0.00	0.00	16.00	0.00	5.40	39.00	146.00	1.00	11.40	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	3.00	85.00	118.60	11.10	57.00	0.00	0.00
12	0.00	0.00	0.00	5.00	0.00	8.60	82.00	188.00	9.00	114.00	0.00	0.00
13	0.00	0.00	0.00	6.00	1.80	30.00	26.40	165.00	0.00	87.00	0.00	0.00
14	0.00	0.00	0.00	4.68	0.00	67.00	23.80	72.60	15.60	24.80	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	45.00	13.00	79.00	24.00	1.80	0.00	0.00
16	0.00	0.00	0.00	0.00	10.60	29.60	65.00	249.00	2.40	1.80	0.00	0.00
17	0.00	0.00	0.00	0.00	11.00	20.00	9.60	148.00	0.40	10.20	0.00	0.00
18	0.00	0.00	0.00	0.00	13.00	43.00	8.00	176.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	13.12	46.80	22.00	100.00	0.00	6.00	0.00	0.00
20	0.00	0.00	0.00	0.00	4.00	74.20	13.00	79.40	0.00	3.90	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	93.00	6.20	45.00	0.00	2.60	0.00	0.00
22	0.00	0.00	0.00	0.00	15.00	116.00	30.00	21.40	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	4.40	178.80	18.00	21.40	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	4.40	134.00	7.00	48.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	1.20	81.92	19.60	16.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	89.42	7.00	6.40	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	5.00	0.00	49.00	21.00	1.40	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	14.00	11.20	0.00	6.20	21.00	0.00	0.00
29	0.00	0.00	0.00	0.00	7.00	7.90	14.20	0.00	1.20	8.80	0.00	0.00
30	0.00	0.00	0.00	0.00	8.00	10.00	12.80	0.00	12.60	2.00	0.00	0.00
31	0.00	0.00	2.00	0.00	1.40	23.40	23.40	0.60	0.00	0.00	0.00	0.00
Total	0.6	24.0	2.0	40.3	95.1	1294.9	801.5	2374.6	463.0	430.7	1.2	0.0
				Total =	5527.9	mm			Max =	249.0	mm	

Rainfall for the year 2003

Date	unit : mm											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	3.80	0.00	0.00	0.00	0.00	47.00	20.00	45.00	24.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	16.00	19.00	12.40	3.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	35.90	27.10	30.00	21.60	1.20	0.00
4	0.00	0.00	0.00	0.00	0.50	0.50	92.00	16.00	12.60	17.00	0.00	0.00
5	0.00	0.00	0.00	0.00	6.20	6.20	96.00	24.00	45.00	27.20	0.00	0.00
6	0.00	0.00	0.00	0.00	5.00	5.00	32.00	79.00	31.20	13.60	1.00	0.00
7	0.00	0.00	0.00	0.00	4.30	4.30	53.80	124.60	21.00	29.00	3.80	0.00
8	0.00	0.00	0.00	0.00	2.80	2.80	43.00	30.00	23.20	8.90	9.30	0.00
9	0.00	0.00	0.00	0.20	7.60	7.60	27.70	33.30	11.00	4.00	4.20	0.00
10	0.00	0.00	0.00	3.40	13.10	13.10	45.60	12.40	3.60	1.10	0.00	0.00
11	0.00	0.00	0.00	5.80	24.40	24.40	15.00	7.00	2.00	15.00	0.00	0.00
12	0.00	0.00	0.00	12.60	49.40	49.40	24.00	14.00	5.00	0.50	0.00	0.00
13	0.00	0.00	5.30	5.20	24.10	24.10	45.20	22.00	7.00	0.20	0.00	0.00
14	0.00	0.00	0.70	0.00	51.00	51.00	57.00	37.00	24.00	3.20	0.00	0.00
15	0.00	8.20	0.00	0.00	49.50	49.50	84.00	44.40	33.40	0.90	2.40	0.00
16	0.00	0.00	0.00	1.60	47.80	47.80	149.70	20.60	14.00	1.70	5.00	0.00
17	0.00	0.00	0.00	0.60	33.00	33.00	90.60	27.60	8.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	86.20	86.20	22.00	29.00	16.00	19.70	0.00	0.00
19	0.00	0.00	0.00	0.60	157.10	157.10	7.00	16.60	27.40	10.00	0.00	0.00
20	0.00	0.00	12.00	1.60	97.00	97.00	7.40	261.00	2.80	9.20	0.00	0.00
21	0.00	0.00	3.80	1.50	106.00	106.00	17.00	70.00	0.80	18.40	0.00	0.00
22	0.00	0.00	0.00	5.00	162.00	162.00	38.70	107.00	0.00	11.00	0.60	0.00
23	0.00	0.00	0.00	0.00	43.90	43.90	85.40	85.40	22.30	7.00	1.10	0.00
24	0.00	0.00	0.00	0.00	27.60	27.60	98.20	39.50	1.20	2.00	0.00	0.00
25	0.00	0.00	0.00	0.00	21.10	21.10	99.80	71.80	5.00	1.50	0.00	0.00
26	0.00	0.00	0.00	0.00	4.80	4.80	94.80	20.30	3.60	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	3.90	24.80	150.60	50.00	3.30	0.00	0.00	0.00
28	0.00	0.00	15.00	0.00	4.50	13.00	114.10	23.00	8.10	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	1.60	25.50	13.00	32.92	0.90	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.40	20.00	9.30	21.00	2.30	2.20	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	7.00	7.00	21.00	0.00	0.00	0.00	0.00
Total	0.0	12.0	36.8	38.1	25.0	1121.3	1718.8	1406.5	422.1	251.9	28.6	0.0
	Total = 5061.1 mm											
	Max = 261.0 mm											

STATION :Kadmane

TALUK :Sakaleshpur

DISTRICT :Hassan

Catchment Rainfall for the year 1988

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.00	0.00	0.00	0.00	6.64	42.79	87.14	18.30	27.68	0.00	0.00
2	0.00	0.00	0.00	0.00	0.12	16.96	15.99	247.98	43.05	59.28	0.00	0.00
3	0.00	0.00	0.00	0.00	0.84	3.71	3.69	311.68	42.02	14.60	0.00	0.00
4	0.00	0.00	0.00	0.00	2.47	2.60	7.07	205.00	6.14	5.17	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	11.63	4.12	39.26	0.30	32.23	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	3.99	7.74	4.13	41.56	13.22	0.14	0.00
7	0.00	0.00	0.00	0.00	2.50	9.72	4.83	1.76	20.40	7.53	6.34	0.00
8	0.00	0.00	0.00	1.14	0.00	23.10	42.51	41.32	20.90	0.20	0.00	0.00
9	0.00	0.00	0.00	0.00	0.37	34.28	5.14	18.28	58.72	11.22	0.00	0.00
10	0.00	0.00	0.00	19.12	0.00	38.84	66.14	9.26	10.24	8.06	0.00	0.00
11	0.00	0.00	0.00	1.11	0.24	21.59	16.76	2.70	7.90	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	21.10	36.94	2.43	2.33	0.00	0.00	1.33
13	0.00	0.00	0.00	0.88	0.00	29.82	68.04	4.61	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	15.52	0.00	21.64	106.76	18.54	19.24	0.00	0.00	48.04
15	0.00	0.00	0.00	1.69	0.00	26.90	119.50	26.18	12.92	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	37.12	198.72	80.70	23.51	0.00	0.00	0.00
17	0.00	0.00	0.00	11.52	0.00	15.62	302.82	70.24	30.84	0.00	0.00	0.00
18	0.00	0.00	0.00	2.18	0.00	13.92	194.60	68.00	44.14	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	24.98	227.80	223.70	44.21	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	17.78	118.16	65.68	65.80	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	10.69	65.40	14.12	32.28	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	38.86	53.62	12.66	29.18	0.00	0.00	0.00
23	0.00	0.00	0.00	2.12	0.00	75.37	52.78	19.21	101.07	1.04	0.00	0.00
24	0.00	0.00	0.00	25.93	9.44	60.16	10.04	43.10	29.06	0.00	0.00	0.00
25	0.00	0.00	0.00	7.30	0.00	26.32	14.56	3.74	28.60	0.00	0.00	0.00
26	0.00	0.00	0.00	27.33	0.20	17.60	30.96	6.16	25.05	1.68	0.00	0.00
27	0.00	0.00	0.00	11.76	0.50	18.00	50.28	49.66	24.52	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	2.87	16.11	97.76	14.40	5.64	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.91	3.00	117.33	26.92	14.82	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	1.44	5.78	51.16	16.19	3.68	3.08	0.00	0.00
31	0.00	0.00	0.00	0.00	0.42	25.91	25.91	16.68	0.00	0.00	0.00	0.00
Total	0.0	0.0	0.0	127.6	22.3	653.8	2159.9	1751.4	806.4	185.0	6.5	49.4

Total = 5762.4 mm

Max = 311.7 mm

Catchment Rainfall for the year 1989

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	unit :
1	0.00	0.00	0.00	2.16	0.00	18.60	35.30	9.40	32.52	0.00	0.00	0.00	mm
2	0.00	0.00	0.00	0.00	0.00	1.02	18.54	4.92	0.00	1.94	0.00	0.00	
3	0.00	0.00	0.00	0.30	0.00	0.60	2.76	6.18	3.10	3.67	0.00	0.00	
4	0.00	0.00	0.00	0.00	26.92	0.00	0.00	45.50	2.96	2.00	0.00	0.00	
5	0.00	0.00	0.00	0.76	0.00	19.86	0.00	115.58	0.00	47.12	0.00	0.00	
6	0.00	0.00	0.00	0.00	0.00	83.46	7.08	55.72	6.52	0.60	0.00	0.00	
7	0.00	0.00	0.00	0.00	0.89	70.60	9.54	25.21	7.66	15.44	0.00	0.00	
8	0.00	0.00	0.00	0.00	9.92	93.28	15.98	20.18	0.00	0.20	0.00	0.00	
9	0.00	0.00	0.00	0.00	0.10	43.16	2.00	7.91	6.08	0.00	0.00	0.00	
10	0.00	0.00	0.56	0.00	0.89	62.20	0.30	14.52	0.56	12.71	1.03	0.00	
11	0.00	0.00	0.00	0.00	0.24	90.07	19.42	42.06	8.66	0.84	0.00	0.00	
12	0.00	0.00	0.00	0.00	0.56	129.10	34.27	76.12	35.28	0.00	0.00	0.00	
13	0.00	0.00	5.34	0.00	0.00	76.84	26.90	42.97	9.82	0.00	15.55	0.00	
14	0.00	0.00	1.96	0.00	0.00	38.72	6.52	48.60	15.19	0.00	0.00	0.00	
15	0.00	0.00	0.00	0.00	0.00	56.20	4.78	32.30	45.74	0.00	0.00	0.00	
16	0.00	0.00	0.00	0.00	0.20	30.36	58.28	49.40	0.40	2.20	0.00	0.00	
17	0.00	0.00	0.00	0.00	0.00	42.29	115.62	151.12	2.43	0.00	0.00	0.00	
18	0.00	0.00	0.00	0.00	0.14	17.13	107.27	95.36	6.16	5.16	0.00	0.00	
19	0.00	0.00	0.00	0.54	0.00	16.56	99.38	62.60	6.16	0.60	0.00	0.00	
20	0.00	0.00	0.00	0.20	0.00	14.82	98.88	32.04	13.62	2.08	0.00	0.00	
21	0.00	0.00	0.00	0.00	0.10	31.08	145.72	3.66	13.08	0.00	0.00	0.00	
22	0.00	0.00	0.00	2.94	0.16	60.36	252.63	44.46	2.34	0.00	0.00	0.00	
23	0.00	0.00	1.24	0.00	0.00	20.80	183.74	75.64	6.90	0.00	0.00	0.00	
24	0.00	0.00	0.00	29.08	0.00	15.84	253.04	69.08	2.92	0.00	0.00	0.00	
25	0.00	0.00	0.00	0.00	2.38	33.70	160.89	64.04	5.98	0.00	0.00	0.00	
26	0.00	0.00	0.00	10.16	0.00	36.16	108.34	40.16	13.30	0.00	0.00	0.00	
27	0.00	0.00	0.00	1.00	0.00	17.53	76.46	44.76	41.97	0.00	0.00	0.00	
28	0.00	0.00	0.00	0.00	0.00	83.88	10.70	10.79	62.30	0.40	0.00	0.00	
29	0.00	0.00	0.00	0.00	0.00	93.52	19.11	10.02	7.65	0.08	0.00	0.00	
30	0.00	0.00	0.00	0.00	0.00	166.40	0.30	24.80	4.40	13.18	0.00	0.00	
31	0.00	0.00	0.00	0.00	1.10		0.00	40.92		0.00	0.00	0.00	
Total	0.0	0.0	9.1	47.1	43.6	1464.1	1873.7	1366.0	363.7	108.2	16.6	0.0	
				Total =	5292.2	mm			Max =	253.0	mm		

Catchment Rainfall for the year 1990

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.00	0.00	0.00	0.00	20.71	181.18	41.18	8.32	33.74	0.00	0.00
2	20.03	0.00	0.00	0.00	0.00	47.58	260.04	54.66	8.11	13.63	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	13.63	94.66	17.44	20.30	8.75	0.20	0.00
4	0.00	0.00	0.00	0.00	0.00	2.24	40.58	11.89	45.44	9.96	0.00	0.00
5	0.00	0.00	0.00	0.00	6.98	3.32	20.04	3.67	79.56	0.86	0.00	0.00
6	0.00	0.00	0.00	0.00	2.66	21.69	27.82	8.86	74.10	3.03	0.00	0.00
7	0.00	0.00	0.00	4.27	0.00	7.90	60.08	6.83	16.21	0.44	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	4.89	23.06	26.38	11.51	12.88	0.00	0.00
9	0.00	0.00	0.00	0.00	11.38	23.91	39.57	43.74	1.14	0.00	0.20	0.00
10	0.00	0.00	0.00	0.00	4.70	26.29	51.84	81.62	12.03	0.00	2.94	0.00
11	0.00	0.00	0.00	0.00	24.94	62.44	65.10	92.78	43.33	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	42.35	21.81	98.52	44.05	0.12	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	16.82	14.75	183.44	39.22	9.02	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	12.94	58.33	218.96	19.12	6.68	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	46.06	62.20	186.69	0.00	9.94	0.84	0.00
16	0.00	0.00	0.00	0.00	0.00	90.13	97.38	188.82	0.00	0.00	0.60	0.00
17	0.00	0.00	0.00	0.00	2.23	109.04	109.94	117.28	0.00	3.73	0.96	0.00
18	0.00	0.00	0.00	0.00	1.00	99.52	155.87	103.68	0.00	0.20	0.00	0.00
19	0.00	0.00	0.00	0.00	53.68	172.08	53.81	181.44	0.00	2.76	0.00	0.00
20	0.00	0.00	0.00	0.00	31.24	30.73	52.49	157.86	24.64	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	12.21	27.10	32.72	111.92	10.98	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	24.68	48.80	30.12	132.74	0.77	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	5.38	39.14	52.82	103.56	22.44	37.23	0.00	0.00
24	0.00	0.00	0.00	0.30	14.04	20.03	91.22	62.24	1.42	21.70	0.00	0.00
25	0.00	0.00	0.00	0.00	2.86	58.72	54.28	16.16	2.86	2.20	0.00	0.00
26	0.00	0.00	0.00	0.00	7.98	146.65	20.34	20.70	2.02	29.70	4.42	0.00
27	0.00	0.00	0.00	0.00	38.55	103.04	15.28	5.86	6.02	49.10	0.00	0.00
28	0.00	0.00	0.00	0.00	42.96	69.48	25.87	35.16	0.87	30.96	0.00	0.00
29	0.00	0.00	0.00	0.00	20.66	91.78	19.22	61.86	2.73	15.84	0.00	0.00
30	0.00	0.00	0.00	0.00	28.40	59.55	43.52	75.58	2.05	9.92	0.00	0.00
31	0.00	0.00	0.00	0.00	24.27	59.76	59.76	43.22	7.06	7.06	0.00	0.26
Total	20.0	0.0	0.0	4.6	360.8	1518.6	1935.7	2494.7	499.2	319.5	10.2	0.3
	Total = 7163.5 mm											
	Max = 260.0 mm											

Catchment Rainfall for the year 1991

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.00	0.00	0.00	0.00	0.40	34.04	66.93	1.18	0.00	0.00	0.00
2	0.00	0.00	0.00	21.86	0.00	21.44	10.36	13.30	0.00	2.00	0.50	0.00
3	0.00	0.00	0.00	0.00	0.00	18.24	12.55	16.81	0.00	6.93	27.04	0.00
4	0.00	0.00	0.00	7.28	4.94	73.02	41.10	8.52	0.00	5.78	11.76	0.00
5	0.00	0.00	0.00	0.00	5.74	48.00	84.64	6.69	0.00	34.16	13.73	0.00
6	0.00	0.00	0.00	1.02	0.00	82.90	72.76	13.44	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	171.92	36.66	44.44	0.20	0.87	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	172.28	77.15	64.02	18.24	4.76	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	189.62	55.72	77.02	0.00	11.49	0.00	0.00
10	0.00	0.00	0.20	34.19	0.00	414.28	60.02	57.54	0.00	5.65	0.00	0.00
11	0.00	0.00	0.00	29.30	2.12	121.94	66.91	48.51	0.00	1.38	0.00	0.00
12	0.00	0.00	0.00	0.00	0.44	68.76	118.22	60.14	7.85	8.96	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	5.92	83.73	142.42	0.60	2.70	0.00	0.00
14	0.00	0.00	0.00	0.48	22.26	5.10	75.54	134.48	26.52	0.00	0.00	0.00
15	0.00	0.00	1.00	2.21	1.87	13.13	154.14	109.66	7.50	0.00	0.40	0.00
16	0.00	0.00	0.00	0.00	0.00	50.15	120.84	69.47	1.00	17.68	0.82	0.00
17	0.00	0.00	0.00	0.00	0.00	37.06	83.80	47.49	0.00	36.02	5.72	0.00
18	0.00	0.00	0.00	1.36	0.00	11.48	62.29	52.92	0.00	3.28	0.00	0.00
19	0.00	0.00	0.00	0.64	0.00	59.66	87.58	12.18	0.00	3.18	0.00	0.00
20	0.00	0.00	0.00	0.00	4.39	108.24	91.69	36.19	0.20	0.00	0.00	11.14
21	0.00	0.00	0.00	5.96	9.90	5.52	97.62	44.73	20.83	5.68	0.00	0.00
22	0.00	0.00	0.00	3.50	2.67	11.53	73.72	47.32	16.51	1.24	0.00	0.00
23	0.00	0.00	0.00	24.48	29.30	12.94	77.68	47.86	25.27	3.14	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	21.08	99.34	50.36	6.18	0.00	0.00	0.00
25	0.00	0.00	0.00	0.10	37.02	61.22	129.21	40.30	8.20	0.00	0.00	0.00
26	0.00	0.00	0.00	0.90	0.00	43.71	362.44	9.11	1.20	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	19.21	90.32	439.44	7.72	6.32	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	5.22	31.20	208.68	6.71	16.68	4.69	0.00	0.00
29	0.00	0.00	0.00	0.00	14.14	7.00	227.34	13.72	1.24	29.16	0.00	0.00
30	0.00	0.00	0.00	0.00	6.88	68.98	153.19	1.90	0.00	6.07	0.00	0.00
31	0.00	0.00	0.00	0.00	0.28	95.71	95.71	5.79	0.60	0.60	0.00	0.00
Total	0.0	0.0	1.2	133.3	166.4	2027.0	3394.1	1357.7	165.7	195.4	60.0	11.1

unit: mm

Total = 7511.9 mm

Max = 439.4 mm

Catchment Rainfall for the year 1992

Date	unit: mm											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.00	0.00	0.00	1.80	0.20	16.24	28.36	27.17	23.54	0.00	0.00
2	0.00	0.00	0.00	0.00	0.60	48.86	1.84	39.18	57.08	17.90	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.60	28.63	100.36	24.04	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	27.00	0.00	12.95	57.89	83.83	0.00	0.00
5	0.00	0.00	0.00	0.00	14.32	22.32	2.16	3.64	66.00	118.30	0.00	0.00
6	0.00	0.00	0.00	0.00	1.00	0.00	11.52	1.44	123.00	2.16	0.00	0.00
7	0.00	0.00	0.00	0.00	1.16	5.26	18.40	11.62	114.05	10.28	0.00	0.00
8	0.00	0.00	0.00	16.60	1.14	1.68	16.80	10.65	56.84	5.78	10.76	0.00
9	0.00	0.00	0.00	0.00	1.08	0.40	9.58	55.90	32.94	3.13	8.14	0.00
10	0.00	0.00	0.00	0.00	2.54	0.00	7.40	81.40	7.56	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	8.75	7.52	38.14	136.60	0.80	3.48	0.00	0.00
12	0.00	0.00	0.00	0.00	8.83	17.42	36.40	242.76	0.58	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.40	51.43	37.94	205.76	0.00	1.14	0.00	0.00
14	0.00	0.00	0.00	0.00	14.18	7.78	29.93	151.27	0.00	4.20	7.09	0.00
15	0.00	0.00	0.00	0.00	5.52	88.50	39.54	111.50	0.60	44.03	107.92	0.00
16	0.00	0.00	0.00	0.00	0.00	96.96	96.40	225.56	0.00	0.20	81.48	0.00
17	0.00	0.00	0.00	0.00	15.24	110.56	175.00	153.57	4.65	0.00	28.28	0.00
18	0.00	0.00	0.00	0.32	3.00	296.51	86.79	138.80	1.97	0.00	3.22	0.00
19	0.00	0.00	0.00	1.26	0.00	303.98	150.76	107.70	32.22	0.00	0.00	0.00
20	0.00	0.00	0.00	0.20	0.00	271.46	185.76	116.21	52.92	0.00	39.36	0.00
21	0.00	0.00	0.00	0.00	0.00	171.49	44.39	44.45	2.81	0.00	20.24	0.00
22	0.00	0.00	0.00	0.00	0.00	119.25	53.30	63.40	1.22	0.00	0.96	0.00
23	0.00	0.00	0.00	10.86	0.60	113.09	66.24	6.70	15.00	1.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	28.72	140.48	14.90	5.34	0.00	0.00	0.00
25	0.00	0.00	0.00	8.21	0.00	23.04	99.98	24.31	0.00	5.04	0.00	0.00
26	0.00	0.00	0.00	15.24	0.00	82.75	286.47	33.60	19.56	0.00	0.00	0.00
27	0.00	0.00	0.00	0.20	0.00	143.43	136.06	41.60	12.18	0.40	0.00	0.00
28	0.00	0.00	0.00	0.00	15.31	54.34	143.57	64.12	71.72	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	41.44	92.60	55.32	24.06	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	62.96	58.35	21.00	1.50	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	10.62	10.62	21.68	0.00	0.00	0.00	0.00
Total	0.0	0.0	0.0	52.9	95.5	2198.3	2093.3	2254.6	890.0	348.5	307.5	0.0
				Total =	8240.5	mm			Max =	304.0	mm	

Catchment Rainfall for the year 1993

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.00	0.00	0.00	0.00	1.06	67.84	180.86	12.04	2.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.40	124.80	94.18	13.74	41.46	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	5.12	110.68	117.50	23.30	19.95	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	2.32	27.00	20.28	22.96	9.64	1.50	0.00
5	0.00	0.00	0.00	0.00	0.00	12.33	35.50	8.68	38.23	2.32	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.40	5.64	3.56	20.87	4.37	0.00	0.20
7	0.00	0.00	0.00	0.00	0.00	4.09	29.34	22.62	19.95	1.68	0.00	16.62
8	0.00	0.00	0.00	0.00	24.55	10.06	34.84	18.78	8.91	2.24	0.40	6.20
9	0.00	0.00	0.00	0.00	0.72	19.34	120.42	44.08	4.42	12.40	2.08	0.00
10	0.00	0.00	0.00	16.90	0.00	27.43	79.08	52.20	0.50	11.33	7.87	0.00
11	0.00	0.00	0.00	0.00	0.00	67.39	153.94	85.46	7.17	4.84	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	55.62	91.36	87.76	5.21	4.82	1.80	0.00
13	0.00	0.00	0.00	0.00	0.00	47.34	183.05	61.34	9.67	21.76	0.00	0.00
14	0.00	0.00	0.00	0.00	22.10	60.68	174.09	141.76	4.92	10.36	0.00	0.00
15	0.00	0.00	0.00	0.20	4.43	69.23	120.68	170.06	11.58	16.50	0.00	0.00
16	0.00	0.00	0.00	0.00	1.69	90.68	92.88	122.88	0.16	2.68	3.12	0.00
17	0.00	0.00	0.00	11.70	23.41	106.25	12.29	47.28	0.18	1.20	0.00	0.00
18	0.00	0.00	0.00	38.84	0.00	136.36	7.24	26.79	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	2.66	13.22	74.51	2.34	22.84	0.63	41.00	0.00	0.00
20	0.00	0.00	0.00	0.00	5.22	18.37	3.38	77.40	0.00	29.48	0.00	0.00
21	0.00	0.00	0.00	2.52	19.18	9.14	9.14	30.72	0.00	17.00	0.00	0.00
22	0.00	0.00	0.00	5.04	17.36	18.45	14.65	31.77	1.80	8.64	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	1.90	15.38	20.25	21.12	3.05	0.00	0.00
24	0.00	0.00	0.00	1.08	0.00	0.96	23.48	37.44	6.01	0.00	0.00	0.00
25	0.00	0.00	0.00	4.20	0.00	12.76	53.99	35.15	0.68	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	2.20	30.39	53.46	61.68	3.81	0.00	0.00	0.00
27	0.00	0.00	0.00	0.60	0.00	10.43	73.02	7.85	3.35	0.00	0.00	0.00
28	0.00	0.00	0.00	3.86	2.23	7.73	110.20	8.64	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	2.84	0.00	8.74	184.90	44.40	0.00	1.26	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	34.99	161.34	49.85	2.16	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	165.55	19.83	1753.9	243.4	270.0	16.8	23.0
Total	0.0	0.0	0.0	90.4	136.3	944.5	2341.5	1753.9	243.4	270.0	16.8	23.0

unit: mm

Max = 184.9

mm

Total = 5819.8

Catchment Rainfall for the year 1994

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.00	0.00	0.00	0.00	1.00	77.47	109.60	156.90	18.52	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	18.61	86.24	93.10	105.05	9.22	5.80	0.00
3	0.00	0.00	0.00	5.73	0.00	32.84	13.78	57.72	87.48	28.85	3.16	0.00
4	0.00	0.00	0.00	0.00	0.00	134.28	13.85	32.94	63.02	18.57	1.88	0.00
5	0.00	0.00	0.00	9.64	20.76	86.48	45.32	7.29	94.70	26.16	0.00	0.00
6	0.00	0.00	0.00	0.00	0.40	36.56	9.14	7.59	60.20	30.64	0.00	0.00
7	0.00	0.00	0.00	0.00	0.08	18.87	12.80	7.74	11.65	3.41	0.00	0.00
8	0.00	0.00	0.00	0.00	1.68	43.30	38.01	0.64	5.84	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	24.72	112.20	3.40	9.86	17.49	0.00	0.00
10	0.00	0.00	0.00	23.06	0.00	36.12	158.96	25.28	4.51	19.65	0.00	0.00
11	0.00	0.00	0.00	34.84	0.00	116.32	286.45	37.09	0.00	0.28	0.00	0.00
12	0.00	0.00	0.00	0.84	0.00	135.48	351.53	34.81	0.52	38.84	0.00	0.00
13	0.00	0.00	0.00	0.40	0.00	155.84	236.64	2.68	0.44	24.04	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	114.94	260.04	2.30	5.88	11.70	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	106.52	146.60	2.00	1.00	15.87	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	65.60	151.92	28.00	0.00	14.44	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	50.07	56.46	45.00	0.00	0.00	0.00	0.00
18	12.80	0.00	0.00	0.00	0.00	62.14	83.18	68.16	0.60	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	82.06	120.78	48.48	0.00	2.10	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	19.93	149.40	27.53	0.00	2.80	0.00	0.00
21	0.00	0.00	0.00	0.00	0.68	2.71	148.00	26.87	0.00	0.10	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	26.40	74.60	18.42	0.00	5.03	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	20.12	91.87	64.00	0.00	17.60	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	89.80	91.64	47.20	0.00	23.92	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	64.20	87.12	39.12	0.00	5.26	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	102.16	73.59	110.96	2.61	38.40	0.00	0.00
27	0.00	0.00	0.00	0.00	8.06	95.11	108.92	88.44	2.30	28.56	0.00	0.00
28	0.00	0.00	0.00	0.00	36.36	176.08	68.60	83.24	16.99	4.52	0.00	0.00
29	0.00	0.00	0.00	0.00	0.40	141.46	86.72	81.74	5.42	6.84	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	93.84	104.56	119.04	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	86.92	161.76	0.00	0.00	0.00	0.00	0.00
Total	12.8	0.0	0.0	74.5	68.4	2153.6	3433.3	1482.1	635.0	412.8	10.8	0.0
				Total =	8283.3	mm			Max =	351.5	mm	

Catchment Rainfall for the year 1995

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.00	0.00	0.00	0.00	0.00	64.20	15.14	176.70	5.16	0.00	0.00
2	0.00	0.00	0.00	0.00	0.40	0.00	51.80	80.76	209.82	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	19.74	102.56	192.44	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	4.26	2.24	6.13	42.60	97.56	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	17.60	0.00	23.24	12.39	59.30	2.03	21.94	0.00
6	0.00	0.00	0.00	27.28	9.96	0.00	46.44	13.27	48.64	3.58	3.36	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	18.70	64.66	30.00	6.41	0.00	0.00
8	0.00	0.00	0.00	0.00	6.61	0.00	17.89	80.55	12.62	0.12	0.00	0.00
9	0.00	0.00	0.00	0.00	2.13	7.22	53.98	19.70	6.87	5.45	0.00	0.00
10	0.00	0.00	0.00	0.00	7.20	16.97	158.54	0.20	0.00	30.64	0.00	0.00
11	0.00	0.00	0.00	0.00	12.24	63.90	179.36	13.70	0.00	1.48	0.00	0.00
12	0.00	0.00	0.00	0.00	53.40	86.10	160.74	7.36	4.20	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	25.76	75.16	93.78	12.68	2.10	0.60	0.00	0.00
14	0.00	0.00	0.00	0.00	82.28	29.36	49.09	9.16	46.31	3.00	0.00	0.00
15	0.00	0.00	0.00	0.00	1.46	6.91	56.20	5.94	39.24	0.00	0.00	0.00
16	0.00	0.00	0.00	1.34	2.82	9.80	212.48	31.36	18.73	0.00	0.00	0.00
17	0.00	0.00	0.00	15.34	0.00	4.94	42.82	28.65	29.65	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	9.32	135.66	1.22	14.36	19.36	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	4.42	197.60	20.36	5.31	0.20	0.00	0.00
20	0.00	0.00	0.00	22.96	0.00	7.70	97.44	25.55	0.00	0.20	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	9.19	111.34	0.40	14.80	0.00	0.00	0.00
22	0.00	0.00	0.00	1.40	0.00	5.65	34.44	0.00	0.20	0.00	0.00	0.00
23	0.00	0.00	0.00	18.10	0.00	6.24	32.20	26.00	0.00	6.12	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	3.53	15.97	2.10	0.00	15.46	4.00	0.00
25	0.00	0.00	0.00	0.00	6.85	15.36	16.18	12.99	1.66	2.69	18.64	0.00
26	0.00	0.00	0.00	0.00	0.00	50.04	71.98	99.66	0.00	1.60	0.00	0.00
27	0.00	0.00	0.00	0.00	7.42	44.70	40.00	17.20	0.00	14.46	0.00	0.00
28	0.00	0.00	0.00	0.00	1.04	64.42	3.06	118.54	1.20	0.60	0.00	0.00
29	0.00	0.00	0.00	20.48	2.60	70.60	7.02	135.28	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	5.06	18.36	77.00	47.64	216.60	4.60	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	11.04	35.32	35.32	148.16	6.84	0.00	0.00	0.00
Total	0.0	0.0	0.0	112.0	273.4	670.8	2101.0	1364.7	1016.3	126.0	47.9	0.0
				Total =	5712.1	mm			Max =	216.6	mm	

Catchment Rainfall for the year 1996

unit: mm

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.00	0.00	0.00	0.00	4.18	0.00	126.12	2.27	15.20	0.00	0.00
2	0.00	0.00	0.00	1.04	0.00	1.82	0.20	28.40	2.36	87.24	38.60	0.00
3	0.00	0.00	0.00	15.10	0.00	8.55	2.98	59.54	5.80	43.48	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.50	57.72	12.40	1.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.60	28.76	8.92	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	14.92	119.84	6.40	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.80	0.60	34.28	4.60	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	4.10	2.71	22.14	8.35	0.00	0.00	0.97
9	0.00	0.00	0.00	0.00	0.00	7.60	0.00	84.12	6.14	18.40	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	2.30	31.00	27.06	12.18	11.60	0.00	0.40
11	0.00	0.00	0.00	11.02	0.00	1.13	32.52	12.80	20.60	1.90	0.00	0.00
12	0.00	0.00	0.00	0.60	0.00	30.60	67.80	24.04	23.36	3.44	1.16	0.00
13	0.00	0.00	0.00	13.33	0.00	98.08	18.80	30.90	43.00	8.70	2.20	0.00
14	0.00	0.00	0.00	0.40	0.00	347.80	56.64	27.24	2.81	10.92	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	106.60	68.02	23.62	16.64	0.00	0.00	5.96
16	0.00	0.00	0.00	3.18	0.00	119.24	90.64	16.60	11.76	8.20	0.00	32.82
17	0.00	0.00	0.00	0.00	0.00	219.80	122.28	13.08	19.14	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	118.00	144.36	51.52	8.68	2.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	90.44	98.84	17.56	11.82	15.70	0.00	0.00
20	0.00	0.00	0.00	0.00	2.48	54.08	156.40	1.28	16.62	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	39.88	125.80	6.64	2.87	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	13.37	252.36	5.12	0.00	0.00	4.22	0.00
23	0.00	0.00	0.00	3.34	4.20	39.72	273.44	10.94	33.08	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	3.96	191.32	75.40	1.43	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.40	151.66	63.40	6.36	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	1.88	0.00	147.68	27.14	6.31	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	1.20	187.86	61.43	29.84	1.88	0.00	0.00
28	0.00	0.00	0.00	0.00	10.60	0.00	111.68	88.76	99.36	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	5.88	98.26	64.00	18.26	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	6.20	6.62	77.90	4.20	1.60	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	115.92	0.40	0.40	0.00	10.50	0.00	0.00
Total	0.0	0.0	0.0	48.0	25.4	1326.2	2643.7	1214.1	443.0	240.2	46.2	40.1
				Total =	6026.7	mm			Max =	347.8	mm	

Catchment Rainfall for the year 1997

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.00	0.00	0.50	3.80	0.00	104.96	259.49	0.40	20.68	0.00	0.00
2	0.00	0.00	0.00	0.00	101.12	0.00	88.20	88.96	24.08	10.96	0.00	0.00
3	0.00	0.00	0.00	0.00	0.40	0.00	66.16	107.40	15.30	5.96	3.76	0.00
4	0.00	0.00	0.00	0.00	0.70	0.00	85.36	30.20	2.20	0.00	1.40	0.00
5	0.00	0.00	0.00	0.00	0.00	32.91	91.20	113.60	2.92	1.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	103.12	249.68	3.60	3.16	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	4.68	88.12	270.44	78.12	5.36	0.00	0.00
8	0.00	0.00	0.00	19.06	0.00	0.00	149.44	47.80	9.28	0.00	0.00	19.80
9	0.00	0.00	0.00	0.00	0.00	4.64	275.40	25.68	5.00	0.00	0.00	1.00
10	0.00	0.00	0.00	0.00	0.00	18.44	122.46	21.56	18.92	0.00	1.20	0.00
11	0.00	0.00	0.00	0.00	10.84	17.90	45.64	6.90	32.24	0.20	5.20	0.00
12	0.40	0.00	0.00	0.00	0.00	27.48	46.32	21.00	0.40	0.00	4.52	0.00
13	0.00	0.00	0.00	0.00	8.12	6.44	89.72	1.68	0.40	0.00	7.00	1.00
14	0.00	0.00	0.00	0.00	0.00	5.08	74.40	0.40	0.00	0.00	7.32	0.00
15	2.30	0.00	16.78	0.00	0.00	9.12	63.40	3.74	192.96	4.20	0.00	0.00
16	0.00	0.00	0.00	0.00	0.47	8.08	70.24	4.24	13.40	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	26.00	70.82	44.40	109.84	0.00	3.00	0.00
18	0.00	0.00	0.00	0.00	0.00	13.20	61.08	19.56	147.08	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	17.40	93.20	50.62	33.32	0.00	0.80	0.00
20	0.00	0.00	16.46	24.18	0.00	17.20	5.68	94.64	15.76	0.00	0.00	0.00
21	0.00	0.00	0.00	15.64	0.00	5.84	15.30	173.76	17.56	0.00	0.00	0.00
22	0.00	0.00	33.74	0.00	0.42	4.64	20.84	242.40	14.60	11.96	5.88	0.00
23	0.00	0.00	37.96	0.00	0.00	60.48	31.48	193.60	0.40	1.60	78.40	0.00
24	0.00	0.00	3.36	0.00	4.78	141.80	82.60	59.20	3.68	0.00	0.40	0.00
25	0.00	0.00	0.00	0.00	0.00	121.06	138.20	154.46	7.50	37.46	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	94.90	122.70	93.40	2.06	7.56	8.50	0.00
27	0.00	0.00	0.00	0.00	0.00	110.72	94.00	63.88	4.52	0.00	0.20	0.00
28	0.00	0.00	0.00	0.00	0.00	225.04	69.36	33.08	5.70	8.88	0.00	0.00
29	0.00	0.00	12.50	0.00	0.00	162.08	183.68	78.19	1.12	1.60	0.00	0.00
30	0.00	0.00	3.36	4.76	0.00	153.16	238.88	34.00	37.88	3.84	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00	236.00	6.24	18.68	18.68	0.00	0.00
Total	2.7	0.0	124.2	64.1	130.6	1288.3	3028.0	2594.2	800.2	143.1	127.6	21.8
				Total =	8324.8	mm			Max =	275.4	mm	

Catchment Rainfall for the year 1998

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.00	0.00	10.28	0.80	0.00	254.72	35.16	41.72	3.40	6.36	0.00
2	0.00	0.00	0.00	0.00	0.70	0.00	201.56	3.00	16.96	3.40	9.76	0.00
3	0.00	0.00	0.00	0.00	3.80	0.00	168.84	27.04	22.78	35.00	3.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	172.92	49.32	31.36	33.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	166.72	17.16	18.52	12.50	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	102.12	26.46	9.64	0.00	7.20	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	94.56	24.20	16.20	0.00	4.68	0.00
8	0.00	0.00	0.00	0.00	0.00	37.52	161.36	79.04	66.00	0.00	50.06	0.00
9	0.00	0.00	0.00	0.00	0.00	85.44	203.50	145.52	90.36	2.40	22.08	0.00
10	0.00	0.00	0.00	8.78	0.00	48.20	80.48	159.92	20.08	18.80	0.00	1.68
11	0.00	0.00	0.00	0.00	22.96	31.04	110.82	160.00	81.24	23.04	0.00	0.00
12	0.00	0.00	0.00	0.00	1.60	18.44	68.58	48.20	135.40	22.36	4.74	0.00
13	0.00	0.00	0.00	0.00	7.16	16.28	33.52	30.12	86.24	13.52	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	32.62	29.46	2.00	115.08	37.40	0.00	0.00
15	0.00	0.00	0.00	0.00	17.48	18.58	0.80	0.00	79.64	60.84	0.00	0.00
16	0.00	0.00	0.00	0.00	1.20	47.36	37.72	0.40	24.40	57.20	36.40	17.64
17	0.00	0.00	0.00	0.00	0.00	27.90	6.09	2.30	14.40	51.86	1.96	0.00
18	0.00	0.00	0.00	0.00	0.00	14.31	7.98	31.68	2.76	25.40	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	67.94	5.64	28.08	0.20	5.60	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	98.33	14.66	31.20	16.08	0.00	4.00	0.00
21	0.00	0.00	0.00	1.40	0.00	88.44	5.08	10.72	5.36	0.00	22.52	0.00
22	0.00	0.00	0.00	0.00	0.00	92.64	7.80	0.10	29.08	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	101.95	23.08	8.80	17.40	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	98.60	66.98	42.92	5.96	0.00	0.00	0.00
25	0.00	0.00	0.00	44.40	0.80	99.84	88.30	120.32	25.56	0.00	0.60	0.00
26	0.00	0.00	0.00	0.00	24.20	96.89	36.60	51.64	1.00	0.00	0.00	0.00
27	0.00	0.00	3.60	0.00	0.60	114.80	56.12	65.68	1.76	25.96	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	188.64	130.68	19.20	57.40	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	165.84	235.20	6.24	28.12	0.00	0.00	0.00
30	0.00	0.00	0.00	22.92	0.00	287.60	128.40	3.08	16.40	8.05	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	91.24	9.24	5.00	0.00	0.00	0.00	0.00
Total	0.0	0.0	3.6	87.8	81.3	1879.2	2791.5	1234.5	1077.1	439.7	173.4	19.3
	Total = 7787.4 mm											
	Max = 287.6 mm											

Catchment Rainfall for the year 1999

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.00	0.00	0.00	0.00	1.84	42.30	88.68	19.66	9.20	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	17.15	40.90	121.50	13.68	11.32	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	33.36	25.96	152.92	20.60	9.44	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	11.80	25.00	108.00	35.44	75.28	0.40	0.00
5	0.00	0.00	0.00	0.00	10.84	7.20	45.50	82.80	22.80	8.80	0.00	0.00
6	0.00	0.00	0.00	0.00	25.28	0.00	55.92	125.96	22.36	16.80	0.00	0.00
7	0.00	0.00	0.00	0.00	2.12	3.64	42.00	156.84	7.48	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	3.84	1.80	76.80	111.56	10.00	0.00	0.00	0.00
9	0.00	0.00	0.00	6.64	0.00	14.80	138.60	122.74	14.16	2.00	0.00	0.00
10	0.00	0.00	0.00	2.52	6.33	17.88	52.32	18.56	24.20	8.60	0.00	0.00
11	0.00	0.00	0.00	0.00	11.48	67.48	27.80	23.80	17.20	11.96	0.00	0.00
12	0.00	0.00	0.00	3.12	0.94	152.40	44.08	16.24	15.32	7.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	36.30	68.04	15.16	18.68	1.68	0.00	0.00
14	0.00	0.00	0.00	0.00	33.93	48.70	85.64	18.48	11.40	22.08	0.00	0.00
15	0.00	0.00	0.00	0.00	5.28	27.00	88.20	20.18	13.60	1.68	0.00	0.00
16	0.00	0.00	0.00	0.00	5.32	76.52	70.24	14.12	27.40	37.48	0.00	0.00
17	0.00	0.00	0.00	0.00	0.20	92.64	133.70	2.44	0.60	25.60	0.00	0.00
18	0.00	0.00	0.00	0.00	0.60	165.16	119.84	21.12	0.20	46.84	0.00	0.00
19	0.00	0.00	0.00	0.00	27.44	137.20	129.20	3.40	0.00	0.20	0.00	0.00
20	0.00	0.00	0.00	0.00	33.00	156.52	60.60	13.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	52.64	44.14	73.66	5.88	0.00	42.88	0.00	0.00
22	0.00	0.00	0.00	6.28	11.08	35.00	108.80	0.70	0.00	59.16	0.00	0.00
23	0.00	0.00	0.60	3.56	47.04	20.48	44.32	0.20	0.00	14.36	0.00	0.00
24	0.00	0.00	0.00	17.80	82.66	4.60	69.28	14.96	0.00	1.00	0.00	0.00
25	0.00	0.00	0.00	0.00	42.20	38.42	125.96	41.28	11.52	45.60	0.00	0.00
26	0.00	0.00	0.00	0.00	14.28	0.30	119.56	40.64	1.20	1.00	0.00	0.00
27	0.00	0.00	0.00	0.00	28.92	15.68	106.80	27.64	0.00	22.08	0.00	0.00
28	0.00	0.00	0.00	0.00	3.60	0.00	107.08	4.64	0.00	41.44	0.00	0.00
29	0.00	0.00	0.00	0.00	0.20	14.36	119.92	9.28	1.00	67.44	0.00	0.00
30	0.00	0.00	0.00	0.00	11.64	5.10	120.00	7.40	0.00	2.68	0.00	0.00
31	0.00	0.00	0.00	0.00	10.11	97.00	97.00	12.80	0.00	0.00	0.00	0.00
Total	0.0	0.0	0.6	39.9	471.0	1247.5	2465.0	1402.9	308.5	593.6	0.4	0.0
	Total = 6529.4 mm											
	Max = 165.2 mm											

Catchment Rainfall for the year 2000

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.00	0.00	0.00	0.00	16.36	57.64	0.00	36.24	91.96	0.00	0.00
2	0.00	0.00	0.00	0.00	6.88	20.80	43.12	2.00	149.68	8.48	0.00	0.00
3	0.00	0.00	0.00	4.52	0.00	20.16	4.56	33.40	83.20	2.00	0.00	0.00
4	0.00	0.00	0.00	1.00	0.00	23.96	45.16	11.28	52.60	3.42	0.00	0.00
5	0.00	0.00	0.00	0.00	7.88	29.96	20.32	3.64	6.20	1.08	0.00	0.00
6	0.00	0.00	0.00	0.00	1.68	187.56	20.00	3.72	11.32	2.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	84.80	72.64	45.60	24.16	2.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	87.96	152.96	82.48	1.16	20.10	0.00	0.00
9	0.00	0.00	0.00	0.00	2.80	59.96	130.48	70.08	11.80	9.48	0.00	0.00
10	0.00	0.00	0.00	0.20	45.72	45.68	162.32	57.52	7.72	25.44	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	43.00	280.00	75.92	1.10	9.60	0.00	0.00
12	0.00	0.00	0.00	0.60	0.00	31.20	244.10	33.20	0.70	9.44	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	12.00	202.40	0.40	39.88	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	14.84	130.68	0.00	26.40	12.96	0.00	0.00
15	0.00	0.00	0.00	0.00	0.40	18.00	32.44	18.80	2.00	5.20	0.00	0.00
16	0.00	0.00	0.00	7.00	6.16	160.40	100.28	24.32	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.88	32.40	81.40	88.24	19.12	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	8.36	53.52	116.24	45.56	22.88	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	7.48	50.84	126.72	31.28	58.80	11.32	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	3.00	93.64	21.12	70.68	43.36	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	1.80	17.64	1.40	152.12	5.96	0.40	0.00	0.00
22	0.00	0.00	0.00	0.00	2.20	4.96	0.00	208.50	35.58	9.64	0.00	0.00
23	0.00	0.00	0.00	33.92	0.00	17.60	0.64	196.84	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	2.88	3.32	7.12	0.00	197.64	5.64	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	15.32	0.00	214.96	54.72	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	19.36	11.76	7.48	74.28	4.96	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	6.60	33.64	14.64	78.44	3.74	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	10.22	37.36	29.60	116.12	3.60	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	2.80	32.48	3.32	77.12	8.44	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	11.08	45.88	1.68	39.94	6.00	0.00	6.12	0.00
31	0.00	0.00	0.00	0.00	21.88	1.00	1.00	28.90	1.00	0.00	0.00	0.00
Total	0.0	0.0	0.0	66.8	290.5	1498.4	1945.1	2018.7	637.5	213.2	10.6	0.0

Total =

6680.9 mm

Max =

280.0 mm

Catchment Rainfall for the year 2001

unit: mm

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	18.60	0.00	0.00	0.00	0.00	35.36	21.88	5.28	6.48	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	56.80	54.48	0.60	1.20	0.00	0.00
3	0.00	0.00	0.00	0.00	0.60	0.00	132.30	70.16	1.20	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	1.88	110.52	83.60	0.00	4.40	0.00	0.00
5	0.00	0.00	0.00	0.00	1.60	45.52	125.84	50.20	0.00	28.28	15.44	0.00
6	0.00	0.00	0.00	0.00	0.00	26.20	125.84	62.50	0.00	25.96	10.20	0.00
7	0.00	0.00	0.00	0.00	0.00	41.62	189.72	62.40	0.00	35.88	34.84	0.00
8	0.00	0.00	0.00	0.10	0.00	27.80	246.80	30.28	0.20	16.26	8.30	0.00
9	0.00	0.00	0.00	0.20	0.00	32.84	170.76	16.94	1.60	3.48	0.00	0.00
10	0.00	0.00	0.00	16.52	0.00	63.46	215.08	34.88	0.00	18.68	0.00	0.00
11	0.00	0.00	0.00	24.72	0.00	124.28	102.40	24.24	0.00	70.76	0.00	0.00
12	0.00	0.00	0.00	34.44	0.00	157.80	56.20	43.20	0.00	1.88	0.00	0.00
13	0.00	0.00	0.00	1.60	0.00	133.34	62.92	75.72	0.00	1.16	0.00	0.00
14	0.00	0.00	0.00	15.04	0.00	211.20	32.76	81.48	25.24	26.88	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	157.70	25.60	76.99	1.16	5.58	12.00	0.00
16	0.00	0.00	0.00	3.52	0.00	114.96	65.12	70.88	12.10	3.70	38.68	0.00
17	0.00	0.00	0.00	10.12	0.00	56.10	58.20	77.04	0.00	0.88	0.00	0.00
18	0.00	0.00	0.00	2.60	0.00	189.80	32.88	104.14	3.00	0.20	0.00	0.00
19	0.00	0.00	0.00	0.60	0.00	71.50	16.20	48.00	109.72	12.56	0.00	0.00
20	0.00	0.00	0.00	3.32	1.00	31.34	38.56	87.40	27.56	13.08	0.00	0.00
21	0.00	0.00	0.00	1.20	2.20	33.92	32.88	106.14	6.08	0.00	0.00	0.00
22	0.00	0.00	0.00	6.88	1.84	77.28	15.90	48.12	3.52	0.00	3.00	0.00
23	0.00	0.00	0.00	3.00	9.32	67.20	36.28	78.16	38.56	0.00	6.28	0.00
24	0.00	0.00	0.00	0.00	18.92	98.40	53.24	33.16	3.36	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	22.26	20.10	5.48	32.80	20.96	18.96	0.00	0.00
26	0.00	0.00	0.00	0.00	33.28	37.52	14.24	11.16	9.96	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	21.68	19.44	37.96	16.20	16.96	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	24.70	24.16	30.72	19.20	12.36	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	12.16	18.40	39.04	18.53	6.82	0.00	0.00	0.00
30	0.00	0.00	0.00	0.40	6.60	14.20	17.00	16.60	2.92	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.40	4.74	13.80	13.80	0.00	0.00	0.00	0.00
Total	0.0	18.6	0.0	124.3	156.6	1898.0	2187.3	1570.3	309.2	296.3	128.7	0.0
				Total =	6689.2	mm			Max =	246.8	mm	

Catchment Rainfall for the year 2002

unit : mm

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.00	0.00	0.00	0.00	7.80	37.02	34.92	26.80	10.40	1.00	0.00
2	0.00	0.00	0.00	0.00	0.00	22.88	34.12	38.96	20.96	0.00	0.20	0.00
3	0.00	0.00	0.00	0.00	0.00	32.18	33.52	54.96	23.12	21.52	0.00	0.00
4	0.00	0.00	0.00	0.00	0.20	5.68	37.80	47.40	13.80	0.00	0.00	0.00
5	0.00	0.40	0.00	1.00	0.00	1.68	35.56	106.48	55.76	0.00	0.00	0.00
6	0.00	7.88	0.00	2.00	0.00	0.88	6.44	113.28	97.48	0.00	0.00	0.00
7	0.00	12.76	0.00	0.00	0.00	1.00	4.57	66.88	30.52	13.96	0.00	0.00
8	0.60	0.00	0.00	0.40	0.00	22.84	8.64	100.12	68.80	19.60	0.00	0.00
9	0.00	2.12	0.00	0.20	0.00	57.80	34.20	100.64	46.90	11.36	0.00	0.00
10	0.00	0.00	0.00	16.28	0.00	5.64	46.68	144.00	1.00	10.56	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	3.36	88.20	118.04	10.88	60.52	0.00	0.00
12	0.00	0.00	0.00	4.88	0.00	8.88	98.40	173.56	8.04	100.00	0.00	0.00
13	0.00	0.00	0.00	5.08	1.84	29.20	26.16	165.00	0.00	78.96	0.00	0.00
14	0.00	0.00	0.00	4.68	0.00	67.00	21.32	70.64	15.64	24.84	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	43.88	14.00	64.92	19.50	1.88	0.00	0.00
16	0.00	0.00	0.00	0.00	10.60	28.36	67.60	258.60	2.52	10.20	0.00	0.00
17	0.00	0.00	0.00	0.00	13.56	19.84	9.96	150.36	0.40	1.80	0.00	0.00
18	0.00	0.00	0.00	0.00	13.28	48.28	8.72	193.24	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	13.05	48.08	23.32	93.44	0.00	6.96	0.00	0.00
20	0.00	0.00	0.00	0.00	3.60	73.88	12.40	79.40	0.00	3.94	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	81.64	6.36	40.60	0.00	2.56	0.00	0.00
22	0.00	0.00	0.00	0.00	15.00	108.85	25.04	21.32	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	4.40	171.72	19.88	20.56	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	4.40	126.92	7.00	41.64	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	1.20	76.70	18.36	15.04	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	84.85	7.96	6.40	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	4.68	0.00	47.00	19.80	1.40	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	13.40	10.76	0.00	6.20	20.60	0.00	0.00
29	0.00	0.00	0.00	0.00	6.08	7.90	13.56	0.00	1.20	9.04	0.00	0.00
30	0.00	0.00	0.00	0.00	8.00	10.66	12.64	0.00	12.68	2.00	0.00	0.00
31	0.00	0.00	2.00	0.00	1.40	22.72	0.60	0.60	0.00	0.00	0.00	0.00
Total	0.6	23.2	2.0	39.2	96.6	1258.8	812.7	2322.4	462.2	410.7	1.2	0.0
				Total =	5429.6	mm			Max =	258.6	mm	

Catchment Rainfall for the year 2003

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	3.80	0.00	0.00	0.00	0.00	42.88	22.16	41.08	21.12	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	18.56	23.40	13.04	3.64	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	35.90	25.46	34.24	23.64	1.16	0.00
4	0.00	0.00	0.00	0.00	0.00	0.50	87.84	16.00	12.60	20.60	0.00	0.00
5	0.00	0.00	0.00	0.00	0.20	6.20	90.80	27.60	40.12	27.16	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	5.00	36.00	84.52	31.16	13.08	1.00	0.00
7	0.00	0.00	0.00	0.00	0.00	4.30	53.80	127.36	22.16	36.28	3.80	0.00
8	0.00	0.00	0.00	0.00	0.00	2.80	43.00	36.84	22.76	9.12	9.30	0.00
9	0.00	0.00	0.00	0.20	0.00	7.28	26.36	33.18	10.08	4.20	4.32	0.00
10	0.00	0.00	0.00	3.40	0.00	13.10	45.60	12.12	3.68	1.10	0.00	0.00
11	0.00	0.00	0.00	5.80	0.00	24.40	15.80	7.48	2.00	15.00	0.00	0.00
12	0.00	0.00	0.00	12.48	0.00	49.40	29.60	15.32	5.00	0.50	0.00	0.00
13	0.00	0.00	5.30	5.12	0.00	24.10	45.28	24.80	6.32	0.20	0.00	0.00
14	0.00	0.00	0.70	0.00	0.00	63.48	64.60	34.40	25.44	3.20	0.00	0.00
15	0.00	8.20	0.00	0.00	0.00	49.40	75.64	45.36	34.64	0.90	2.40	0.00
16	0.00	0.00	0.00	1.60	0.00	46.24	149.08	20.60	15.30	1.66	5.00	0.00
17	0.00	0.00	0.00	0.60	0.00	43.50	93.04	27.88	8.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	91.72	20.20	32.58	15.80	19.76	0.00	0.00
19	0.00	0.00	0.00	0.60	0.00	152.06	7.96	15.16	27.40	10.04	0.00	0.00
20	0.00	0.00	12.20	1.60	0.40	93.96	7.12	256.52	2.80	9.32	0.00	0.00
21	0.00	0.00	3.80	1.50	0.80	93.04	18.00	87.96	0.80	18.52	0.00	0.00
22	0.00	0.00	0.00	5.20	0.30	161.80	39.68	116.40	0.00	13.48	0.60	0.00
23	0.00	0.00	0.00	0.00	2.00	41.84	88.32	79.36	22.84	7.94	1.10	0.00
24	0.00	0.00	0.00	0.00	3.00	27.60	93.56	38.10	1.16	2.00	0.00	0.00
25	0.00	0.00	0.00	0.00	3.10	20.54	97.88	69.32	4.80	1.50	0.00	0.00
26	0.00	0.00	0.00	0.00	4.80	18.40	92.88	20.44	3.56	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	3.90	25.44	155.56	48.80	3.30	0.00	0.00	0.00
28	0.00	0.00	18.20	0.00	4.50	11.00	123.44	27.92	8.24	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	1.60	25.10	14.36	31.97	0.90	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.40	19.16	9.82	18.84	2.30	2.20	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	7.08	7.08	20.40	0.00	0.00	0.00	0.00
Total	0.0	12.0	40.2	38.1	25.0	1121.4	1729.6	1448.2	421.5	266.2	28.7	0.0
	Total = 5130.9 mm											
	Max = 256.5 mm											

STATION : Maranahalli

TALUK : Sakaleshpur
Rainfall for the year 1988

DISTRICT : Hassan

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.97	20.08	0.40	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	2.19	73.97	5.17	4.77	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.50	13.92	28.64	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	222.72	8.75	4.18	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	127.27	0.40	1.99	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.92	0.00	20.28	0.00	0.00
7	0.00	0.00	0.00	0.00	7.95	8.35	0.00	0.00	0.00	0.40	0.00	0.00
8	0.00	0.00	0.00	5.97	0.00	8.55	0.00	0.00	0.00	1.99	22.27	0.00
9	0.00	0.00	0.00	5.97	0.00	4.37	0.00	7.95	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	18.29	0.00	7.95	10.74	0.00	0.00	0.00
11	0.00	0.00	0.00	19.89	0.00	10.74	5.97	3.98	3.58	1.99	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	3.98	2.19	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	6.36	5.97	0.00	6.76	0.00	0.00	0.00
14	0.00	0.00	0.00	2.78	0.00	20.28	19.89	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	29.83	0.00	19.89	85.51	0.00	5.97	0.00	0.00	0.00
16	0.00	0.00	0.00	5.97	0.00	12.73	103.40	3.98	1.99	0.00	0.00	15.91
17	0.00	0.00	0.00	0.00	0.00	5.97	97.44	38.38	3.98	0.00	0.00	0.00
18	0.00	0.00	0.00	4.37	0.00	10.74	165.45	47.73	9.15	0.00	0.00	0.00
19	0.00	0.00	0.00	32.21	0.00	0.00	161.07	44.15	15.11	0.00	0.00	0.00
20	0.00	0.00	0.00	30.62	0.00	0.00	85.51	125.68	23.46	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	32.61	20.48	51.70	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	7.95	19.89	5.97	29.03	0.00	0.00	0.00
23	0.00	57.67	0.00	0.00	0.00	19.89	31.82	0.00	54.09	0.00	0.00	0.00
24	0.00	0.00	0.00	8.75	0.00	40.17	12.33	0.00	52.90	46.53	0.00	0.00
25	0.00	0.00	0.00	9.94	0.00	29.03	0.80	0.00	5.17	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	11.93	25.06	0.00	23.46	0.00	0.00	0.00
27	0.00	0.00	0.00	9.94	0.00	0.80	11.93	20.48	13.12	0.00	0.00	0.00
28	0.00	0.00	0.00	63.63	0.00	0.80	19.89	19.89	11.14	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	6.16	45.74	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00	31.82	20.48	3.98	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	1.99	19.89	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	57.67	0.00	229.87	9.94	246.98	986.37	898.45	373.65	111.17	22.27	15.91
				Total =	2952	mm		Max =		223	mm	

Rainfall for the year 1989

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.00	0.00	0.00	0.00	21.08	83.92	0.00	8.75	6.36	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	42.16	10.74	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.80	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	4.37	11.53	0.00	2.78	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.26	0.00	16.70	0.00	0.00
6	0.00	0.00	0.00	22.27	0.00	2.78	0.00	34.60	0.00	67.21	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	21.08	0.00	7.95	1.19	56.87	0.00	0.00
8	0.00	0.00	0.00	0.00	0.80	12.73	15.51	7.95	2.39	88.69	0.00	0.00
9	0.00	0.00	0.00	0.00	52.50	67.61	0.80	2.78	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.80	22.27	0.00	3.98	0.00	0.00	0.00	0.00
11	0.00	0.00	0.40	0.00	0.40	30.62	0.00	14.32	0.00	58.86	10.74	0.00
12	0.00	0.00	0.00	0.00	0.00	52.90	8.75	19.89	0.00	3.58	0.00	0.00
13	0.00	0.00	0.80	0.00	0.00	107.38	18.69	27.84	15.51	0.00	0.00	0.00
14	0.00	0.00	0.40	0.00	0.00	21.08	7.16	26.25	0.00	0.00	2.39	0.00
15	0.00	0.00	0.00	0.00	0.00	14.32	0.00	17.10	0.40	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	29.83	7.16	11.53	0.00	0.00	4.97	0.00
17	0.00	0.00	0.00	0.00	0.00	15.51	31.82	19.49	0.00	5.57	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	38.18	70.39	41.76	9.94	19.49	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	17.10	82.72	38.18	46.13	8.35	0.00	0.00
20	0.00	0.00	0.00	2.39	0.00	0.80	38.18	24.66	1.59	0.00	0.00	0.00
21	0.00	0.00	0.00	0.40	0.00	10.74	19.09	10.74	4.77	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	68.41	81.93	3.98	11.93	0.00	0.00	0.00
23	0.00	0.00	0.00	3.58	0.00	18.69	274.82	18.29	25.85	0.00	0.00	0.00
24	0.00	0.00	11.93	0.00	0.00	2.39	293.11	49.71	18.69	0.00	0.00	0.00
25	0.00	0.00	0.00	3.18	0.00	1.19	257.72	53.29	0.40	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	31.82	59.26	12.73	0.40	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	20.68	30.62	20.68	24.26	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	9.15	26.65	7.16	42.95	0.40	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	68.01	1.99	9.55	19.89	2.39	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	89.88	0.00	3.98	3.18	45.74	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.27	0.00	32.21	0.00	0.00
Total	0.00	0.00	13.53	31.82	58.87	849.92	1421.83	518.70	238.22	412.42	18.10	0.00
				Total =	3563	mm			Max =	293	mm	

Rainfall for the year 1990

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	unit:
1	1.19	0.00	0.00	0.00	0.00	6.76	23.07	7.56	9.55	2.39	16.31	0.00	mm
2	3.18	0.00	0.00	0.00	0.00	29.83	71.59	8.35	0.00	59.66	0.00	0.00	
3	0.00	0.00	0.00	0.00	0.00	6.76	233.06	32.21	0.00	11.14	0.00	0.00	
4	0.00	0.00	0.00	0.00	0.00	5.57	27.44	9.94	5.57	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.00	0.00	1.59	22.27	9.55	15.11	0.00	0.00	0.00	
6	0.00	0.00	0.00	0.00	42.16	3.18	4.77	0.80	35.00	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.00	1.99	16.70	36.99	2.19	39.77	0.00	0.00	0.00	
8	0.00	0.00	0.00	0.00	0.00	1.99	44.94	0.00	2.39	0.00	0.00	0.00	
9	0.00	0.00	0.00	0.00	0.00	1.99	9.55	3.98	0.00	2.39	0.00	0.00	
10	0.00	0.00	0.00	0.00	0.00	8.75	23.86	13.52	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	0.00	0.00	14.32	31.02	16.70	0.00	0.00	17.10	0.00	
12	0.00	0.00	0.00	0.00	0.00	24.26	49.71	32.21	3.58	9.94	0.00	0.00	
13	0.00	0.00	0.00	0.00	0.00	36.99	20.28	26.65	24.66	0.00	0.00	0.00	
14	0.00	0.00	0.00	0.00	0.00	2.78	9.55	111.36	7.95	0.00	0.00	0.00	
15	0.00	0.00	0.00	0.00	0.00	6.76	13.12	120.51	0.00	5.97	0.00	0.00	
16	0.00	0.00	0.00	0.00	0.00	17.10	33.81	64.43	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	5.17	0.00	36.59	21.08	119.71	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	0.00	0.00	139.20	53.69	69.20	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.00	0.00	0.00	39.77	107.78	46.13	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.00	0.00	6.36	56.87	22.27	35.40	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	0.00	14.32	1.59	43.75	52.10	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.00	0.00	3.18	19.09	4.77	37.38	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.00	0.00	17.10	26.25	7.95	50.11	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.00	0.00	0.00	12.33	20.28	44.15	0.00	43.35	0.00	0.00	
25	0.00	0.00	0.00	0.00	14.32	3.98	29.83	12.53	0.00	30.23	0.00	0.00	
26	0.00	0.00	0.00	0.00	17.10	35.79	6.36	3.58	0.00	22.27	0.00	0.00	
27	0.00	0.00	0.00	0.00	2.78	9.55	1.19	97.04	0.00	42.16	4.77	0.00	
28	0.00	0.00	0.00	0.00	55.28	44.94	2.78	3.58	0.00	49.71	0.00	0.00	
29	0.00	0.00	0.00	0.00	22.67	31.02	4.37	7.56	0.00	68.80	0.00	0.00	
30	0.00	0.00	0.00	0.00	22.67	39.77	4.77	17.50	0.00	5.97	0.00	0.00	
31	0.00	0.00	0.00	0.00	16.70	5.97	5.97	34.35	0.00	16.70	0.00	0.00	
Total	4.4	0.0	0.0	5.2	236.6	682.1	991.9	1090.3	143.6	370.7	38.2	0.0	mm
										Total =	3563	mm	
										Max =	233	mm	

Rainfall for the year 1991

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	unit : mm
1	0.00	0.00	0.00	0.00	0.00	0.00	22.20	35.00	2.40	0.00	2.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	4.20	19.60	15.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	22.00	0.00	0.00	4.00	9.00	0.00	2.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	11.00	14.00	8.80	0.00	0.00	1.40	0.00	0.00
5	0.00	0.00	0.00	0.00	5.10	38.00	17.00	10.00	0.00	4.40	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	6.10	21.00	79.00	6.00	0.00	3.60	2.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	90.00	35.00	10.00	0.00	38.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	87.20	22.00	34.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	120.00	40.00	38.40	3.60	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	10.20	74.00	55.40	45.60	0.00	41.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	300.50	65.00	30.80	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	4.10	75.00	44.00	19.00	20.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	51.00	160.60	54.20	4.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	111.00	89.00	11.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	24.00	0.00	46.00	104.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	4.20	4.00	88.20	50.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	15.00	64.20	50.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	5.20	0.00	35.40	60.00	38.00	0.00	19.40	3.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	14.00	25.00	38.60	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	20.00	49.00	35.00	12.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	14.00	60.00	56.00	12.80	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	3.10	1.00	1.40	35.60	37.00	20.40	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	27.00	8.00	58.00	25.60	8.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	7.40	0.00	18.00	53.00	28.00	18.20	6.40	0.00	0.00	0.00
25	0.00	0.00	0.00	2.00	26.00	12.00	65.60	25.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	54.00	133.00	15.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	1.40	1.40	25.60	200.00	5.00	1.40	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	4.00	0.00	69.00	380.00	6.20	0.00	9.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	7.00	22.00	121.20	5.40	18.00	29.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	22.00	1.20	129.00	15.40	0.00	38.60	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00	72.00	4.20	0.00	4.80	0.00	0.00	0.00
Total	0.00	0.00	0.00	45.10	172.10	1260.50	2310.60	877.00	107.00	196.20	8.40	0.00	mm
				Total =	4977	mm			Max =	380			

Rainfall for the year 1992

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	unit :
1	0.00	0.00	0.00	0.00	0.00	0.00	25.60	10.00	7.00	0.00	0.00	0.00	mm
2	0.00	0.00	0.00	0.00	0.00	0.00	13.20	20.00	12.20	10.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	0.00	69.00	1.60	21.00	25.60	30.00	0.00	0.00	
4	0.00	0.00	0.00	0.00	0.00	0.00	1.00	31.40	94.00	7.00	0.00	0.00	
5	0.00	0.00	0.00	0.00	9.80	12.60	0.00	10.20	26.00	25.80	0.00	0.00	
6	0.00	0.00	0.00	0.00	6.00	16.40	13.00	2.00	40.60	70.00	0.00	0.00	
7	0.00	0.00	0.00	0.00	0.00	1.20	16.00	4.00	70.00	0.00	0.00	0.00	
8	0.00	0.00	0.00	9.20	0.00	10.00	11.40	10.00	52.00	2.00	4.00	0.00	
9	0.00	0.00	0.00	0.00	0.00	0.00	16.20	21.60	70.20	0.00	0.00	0.00	
10	0.00	0.00	0.00	0.00	0.00	0.00	3.40	8.80	14.80	0.00	0.00	0.00	
11	0.00	0.00	0.00	0.00	1.00	0.00	4.40	56.20	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.00	0.00	10.00	0.00	6.00	80.00	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.00	0.00	6.80	0.00	4.40	154.20	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.00	0.00	7.20	0.00	8.00	160.00	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.00	0.00	13.40	2.00	18.00	140.60	0.00	0.00	10.00	0.00	
16	0.00	0.00	0.00	0.00	5.20	30.00	15.80	130.00	0.00	2.00	83.00	0.00	
17	0.00	0.00	0.00	0.00	0.00	74.00	40.60	112.00	0.00	0.00	44.00	0.00	
18	0.00	0.00	0.00	0.00	0.00	94.00	90.80	114.20	5.00	6.00	19.40	0.00	
19	0.00	0.00	0.00	10.00	0.00	200.00	74.00	90.00	18.20	1.40	0.00	0.00	
20	0.00	0.00	0.00	1.00	0.00	180.00	77.60	45.00	32.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	1.60	0.00	220.00	100.00	124.80	0.00	0.00	60.80	0.00	
22	0.00	0.00	0.00	5.00	0.00	180.00	34.40	25.00	6.00	0.00	0.00	0.00	
23	0.00	0.00	0.00	12.00	0.00	93.20	30.00	20.60	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.00	5.00	0.00	74.60	48.00	3.00	36.20	0.00	0.00	0.00	
25	0.00	0.00	0.00	1.40	0.00	17.40	80.00	5.00	3.00	0.00	0.00	0.00	
26	0.00	0.00	0.00	1.80	0.00	15.00	100.00	8.00	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.00	0.00	0.00	46.40	190.60	10.00	4.40	0.00	0.00	0.00	
28	0.00	0.00	0.00	0.00	0.00	137.00	120.00	15.00	3.20	0.00	0.00	0.00	
29	0.00	0.00	0.00	0.00	0.00	35.00	60.00	30.60	73.00	0.00	0.00	0.00	
30	0.00	0.00	0.00	0.00	0.00	24.00	31.00	5.80	27.20	0.00	0.00	0.00	
31	0.00	0.00	0.00	0.00	0.00	19.20	19.20	4.20	0.00	0.00	0.00	0.00	
Total	0.0	0.0	0.0	47.0	59.4	1531.8	1254.2	1473.2	620.6	154.2	221.2	0.0	mm
				Total =	5362	mm			Max =	220			

Rainfall for the year 1993

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	unit :
1	0.00	0.00	0.00	0.00	0.00	0.00	25.00	161.40	25.40	2.00	0.00	0.00	mm
2	0.00	0.00	0.00	0.00	0.00	0.00	55.40	165.50	2.40	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	0.00	0.00	59.20	105.00	6.80	30.20	0.00	0.00	
4	0.00	0.00	0.00	0.00	0.00	0.00	63.60	78.00	8.00	6.20	4.80	0.00	
5	0.00	0.00	0.00	0.00	0.00	13.40	15.20	15.00	18.00	0.80	0.40	0.00	
6	0.00	0.00	0.00	0.00	0.00	10.00	7.00	13.00	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.00	0.00	0.40	2.00	4.00	5.20	25.80	0.00	0.00	
8	0.00	0.00	0.00	0.00	0.00	5.00	18.20	2.80	8.60	0.20	0.00	0.00	
9	0.00	0.00	0.00	0.00	16.40	5.20	24.60	9.40	5.00	10.00	0.00	0.00	
10	0.00	0.00	0.00	0.00	0.00	17.20	60.00	70.20	10.20	8.00	5.00	0.00	
11	0.00	0.00	0.00	20.00	0.00	20.60	44.00	59.40	0.00	9.00	0.00	0.00	
12	0.00	0.00	0.00	0.00	0.00	61.00	147.20	71.00	7.00	6.60	7.20	0.00	
13	0.00	0.00	0.00	0.00	0.00	35.00	47.40	52.00	0.00	7.00	0.60	0.00	
14	0.00	0.00	0.00	0.00	0.00	46.00	112.00	40.00	14.00	8.00	0.00	0.00	
15	0.00	0.00	0.00	0.00	0.00	65.40	115.40	92.20	0.00	9.00	0.00	0.00	
16	0.00	0.00	0.00	0.00	16.00	75.80	107.60	101.60	6.40	14.80	0.00	0.00	
17	0.00	0.00	0.00	0.00	7.00	90.60	55.00	90.00	0.00	1.00	0.00	0.00	
18	0.00	0.00	0.00	8.00	12.20	70.60	22.20	25.40	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.00	18.00	13.80	15.20	10.00	10.00	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.00	5.60	0.00	40.40	1.20	15.00	0.00	12.00	0.00	0.00	
21	0.00	0.00	0.00	0.00	0.00	7.20	0.00	15.80	0.00	30.00	0.00	0.00	
22	0.00	0.00	0.00	0.00	11.60	5.00	6.40	20.40	0.00	9.00	0.00	0.00	
23	0.00	0.00	0.00	0.00	36.40	0.00	11.20	29.00	0.00	11.20	0.00	0.00	
24	0.00	0.00	0.00	0.00	0.00	0.00	2.20	10.80	28.00	0.40	0.00	0.00	
25	0.00	0.00	0.00	0.00	0.00	3.00	13.00	35.20	3.80	0.00	0.00	0.00	
26	0.00	0.00	0.00	0.00	0.00	1.00	43.00	28.00	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.00	0.00	0.00	12.00	50.40	35.40	2.00	0.00	0.00	0.00	
28	0.00	0.00	0.00	0.00	0.00	4.40	74.60	1.20	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.00	4.80	0.00	12.20	105.80	5.80	0.00	0.00	0.00	0.00	
30	0.00	0.00	0.00	0.00	0.00	8.20	126.40	6.00	0.80	0.00	0.00	0.00	
31	0.00	0.00	0.00	0.00	0.00	156.20	156.20	8.60	0.00	0.00	0.00	0.00	
Total	0.0	0.0	0.0	56.4	113.4	624.8	1581.4	1377.1	151.6	201.2	18.0	0.0	mm
				Total =	4124				Max =	166			

Rainfall for the year 1994

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.00	0.00	0.00	0.00	0.00	70.60	73.00	100.20	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	10.00	45.00	62.00	150.00	15.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	22.40	44.00	84.40	142.00	8.60	0.00	0.00
4	0.00	0.00	0.00	28.80	0.00	23.00	7.20	40.80	63.40	16.80	6.00	0.00
5	0.00	0.00	0.00	0.00	0.00	82.20	17.00	27.80	66.20	4.60	0.00	0.00
6	0.00	0.00	0.00	0.00	6.60	66.00	13.00	7.00	75.00	20.20	0.00	0.00
7	0.00	0.00	0.00	2.00	0.00	35.60	2.00	2.00	23.00	9.20	0.00	0.00
8	0.00	0.00	0.00	1.00	15.00	19.10	3.40	1.00	16.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	78.80	19.00	2.00	7.50	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	28.00	70.80	1.80	3.00	66.00	2.00	0.00
11	0.00	0.00	0.00	18.40	0.00	59.80	125.60	5.60	4.00	12.00	0.00	0.00
12	0.00	0.00	0.00	29.40	0.00	48.20	234.40	24.00	0.00	4.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	70.20	200.00	24.80	0.00	26.40	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	105.60	240.90	3.00	4.00	3.20	0.00	0.00
15	0.00	0.00	0.00	0.00	0.20	94.00	248.60	0.00	5.50	7.80	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	69.40	121.60	7.00	0.00	23.20	0.00	0.00
17	0.00	0.00	0.00	0.00	26.00	60.80	80.60	11.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0	10.00	0.00	35.00	42.00	32.00	1.60	1.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	31.00	75.40	54.00	0.00	0.40	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	45.00	82.40	40.80	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	1.00	10.20	78.10	16.80	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	2.00	61.00	26.40	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	8.00	46.00	13.60	0.00	4.80	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	28.00	73.40	24.80	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	40.60	87.80	38.00	0.00	25.60	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	47.20	58.00	24.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	10.00	60.60	42.80	35.00	11.00	35.00	0.00	0.00
28	0.00	0.00	0.00	0.00	30.20	75.60	52.80	44.80	20.00	23.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.20	120.70	50.20	65.60	0.00	4.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	40.10	54.60	63.60	0.00	11.40	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	93.80	93.80	86.20	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	89.60	89.20	1417.10	2442.00	942.80	692.40	322.20	8.00	0.00
				Total =	6003	mm			Max =	249	mm	

Rainfall for the year 1995

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.00	0.00	0.00	4.00	13.20	31.80	40.40	300.40	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.60	84.60	30.00	180.20	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.10	0.00	40.40	130.00	193.60	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.40	0.00	20.20	90.00	250.40	0.00	0.00	0.00
5	0.00	0.00	0.00	0.60	10.40	0.00	5.20	20.00	220.00	23.40	0.00	0.00
6	0.00	0.00	0.00	0.00	11.00	0.00	39.20	5.40	78.00	6.20	0.00	0.00
7	0.00	0.00	0.00	0.00	18.20	0.00	41.20	25.00	142.60	1.20	0.00	0.00
8	0.00	0.00	0.00	0.00	0.10	0.00	9.80	100.00	21.20	0.40	0.00	0.00
9	0.00	0.00	0.00	0.00	5.00	0.00	6.80	80.00	10.20	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	4.40	4.20	25.60	25.00	0.00	10.20	0.00	0.00
11	0.00	0.00	0.00	0.00	4.00	11.00	119.40	5.20	0.00	11.00	0.00	0.00
12	0.00	0.00	0.00	0.00	5.00	36.20	140.00	15.40	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	50.20	39.00	160.00	2.60	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	34.20	40.00	60.40	10.00	2.20	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	40.00	21.60	80.00	20.00	70.40	0.00	0.00	0.00
16	0.00	0.00	0.00	13.00	1.00	5.40	37.20	10.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	2.00	6.00	180.60	24.20	11.80	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	4.00	80.40	26.00	15.20	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	11.00	213.60	9.00	7.20	14.40	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	250.60	9.20	15.40	0.00	10.40	0.00
21	0.00	0.00	0.00	38.60	0.00	7.00	68.00	5.20	0.00	11.20	2.20	0.00
22	0.00	0.00	0.00	0.00	0.00	11.00	14.00	5.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	8.20	40.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	69.00	1.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	4.20	0.00	7.20	5.60	4.40	0.00	10.00	0.00	0.00
26	0.00	0.00	0.00	0.00	4.40	5.00	30.00	25.40	0.00	12.00	4.00	0.00
27	0.00	0.00	0.00	0.00	0.00	40.20	120.00	180.00	0.00	0.40	0.00	0.00
28	0.00	0.00	0.00	0.00	4.60	34.80	20.00	10.00	0.00	12.40	0.00	0.00
29	0.00	0.00	0.00	0.00	6.20	62.40	3.40	160.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	20.00	0.00	57.20	2.40	160.40	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	23.20	90.00	90.00	280.00	0.00	0.00	0.00	0.00
Total	0.0	0.0	0.0	76.4	228.4	425.2	2089.4	1508.8	1518.8	112.8	16.6	0.0
				Total =	5976	mm			Max =	300	mm	

River Gauge Data Basin : Neithravathi Stream : Kadamane hole
 Taluk : Sakaleshpur
 District : Hassan
 1988 - 1989

Latitude 12053'55" Longitude 7504'16"
 Catchment area=
 Gauged discharge in cumecs

Date	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
1	0.14	0.11	5.44	2.6	2.37	1.32	0.42	0.28	0.13	0.09	0.05	0.04
2	0.02	0.11	8.77	2.78	2.45	1.32	0.42	0.28	0.13	0.09	0.05	0.05
3	0.02	0.11	7.27	2.74	2.4	1.32	0.42	0.28	0.13	0.09	0.05	0.07
4	0.02	0.11	4.34	2.53	2.32	1.32	0.42	0.27	0.12	0.09	0.05	0.07
5	0.02	0.1	3.87	2.5	2.43	1.29	0.41	0.25	0.12	0.09	0.05	0.06
6	0.02	0.1	3.54	2.45	2.45	1.25	0.39	0.25	0.12	0.09	0.05	0.09
7	0.02	0.1	3.24	2.4	2.34	1.25	0.39	0.25	0.11	0.09	0.05	0.06
8	0.03	0.15	3.13	2.24	2.16	1.25	0.39	0.25	0.11	0.09	0.05	0.07
9	0.04	0.22	3.08	2.18	2.14	1.25	0.38	0.25	0.11	0.09	0.04	0.07
10	0.04	0.19	2.76	2.24	2.1	1.25	0.34	0.24	0.11	0.09	0.04	0.07
11	0.05	0.17	2.47	2.1	2.05	1.23	0.36	0.22	0.11	0.08	0.04	0.07
12	0.06	1.26	2.61	2.01	1.92	1.09	0.39	0.21	0.11	0.08	0.04	0.07
13	0.09	3.92	2.62	1.96	1.85	1.08	0.39	0.2	0.11	0.08	0.04	0.07
14	0.11	4.89	2.79	2.08	1.83	1.08	0.48	0.19	0.1	0.07	0.04	0.07
15	0.11	4.79	2.96	2.18	1.77	1.08	0.49	0.17	0.09	0.07	0.04	0.08
16	0.11	4.7	2.76	2.37	1.73	0.99	0.42	0.17	0.09	0.07	0.03	0.08
17	0.12	6.84	2.5	2.61	1.73	0.96	0.39	0.17	0.09	0.07	0.03	0.08
18	0.14	8.9	2.42	2.93	1.73	0.92	0.39	0.17	0.09	0.07	0.03	0.08
19	0.14	7.5	2.36	3.41	1.7	0.92	0.37	0.17	0.09	0.07	0.03	0.08
20	0.14	5.99	2.27	4.16	1.64	0.92	0.33	0.16	0.09	0.07	0.03	0.08
21	0.17	5.02	2.24	4.06	1.64	0.92	0.3	0.16	0.1	0.06	0.03	0.08
22	0.22	4.79	2.23	4.2	1.6	0.88	0.3	0.16	0.11	0.06	0.03	0.08
23	0.22	3.74	2.33	3.94	1.52	0.82	0.3	0.16	0.11	0.06	0.03	0.07
24	0.22	2.78	2.89	3.56	1.5	0.82	0.3	0.17	0.11	0.05	0.04	0.07
25	0.2	2.38	4.15	3.27	1.46	0.51	0.3	0.16	0.11	0.05	0.04	0.07
26	0.16	2.33	4.81	3.23	1.46	0.46	0.3	0.16	0.1	0.05	0.04	0.07
27	0.15	2.52	3.71	3.03	1.46	0.46	0.29	0.15	0.08	0.05	0.04	0.07
28	0.14	3.04	3.01	2.95	1.43	0.46	0.29	0.14	0.09	0.05	0.04	0.06
29	0.14	3.34	2.9	2.65	1.37	0.46	0.28	0.14	0.09	0.05	0.04	0.05
30	0.13	4.01	2.79	2.4	1.37	0.46	0.28	0.14	0.09	0.05	0.04	0.05
31		4.7	2.69		1.35			0.14				
Total	3.19	88.91	104.95	83.76	57.27	29.34	10.93	6.11	2.97	2.21	1.2	2.13
Min =	0.02		cumecs		Total =	392.97	Day cumecs per Annum			Max =	8.9	cumecs

1989 - 1990

Date	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
1	0.06	1.58	3.23	4.25	1.7	1.18	0.71	0.28	0.19	0.1	0.05	0.03
2	0.08	1.55	3.09	3.77	1.7	1.15	0.71	0.28	0.19	0.1	0.05	0.03
3	0.08	1.49	3	3.06	1.67	1.09	0.71	0.28	0.19	0.1	0.05	0.03
4	0.07	1.49	2.85	3.27	1.62	1.09	0.71	0.28	0.19	0.1	0.05	0.03
5	0.14	1.49	2.85	3.56	1.84	1.09	0.71	0.28	0.19	0.1	0.05	0.03
6	0.28	1.47	2.81	3.71	1.76	1.09	0.7	0.28	0.18	0.1	0.05	0.03
7	0.31	1.44	2.75	3.55	1.72	1.09	0.67	0.28	0.16	0.1	0.05	0.03
8	0.97	1.44	2.78	2.53	1.66	1.05	0.62	0.28	0.16	0.1	0.05	0.03
9	1.67	1.38	2.84	1.94	1.66	0.99	0.62	0.27	0.16	0.1	0.05	0.03
10	1.51	1.29	2.93	1.83	1.66	0.99	0.62	0.26	0.16	0.09	0.05	0.03
11	1.47	1.29	3	1.83	1.55	0.96	0.62	0.26	0.16	0.09	0.05	0.03
12	1.83	1.35	2.99	1.83	1.37	0.95	0.62	0.25	0.16	0.09	0.05	0.03
13	1.95	1.46	2.83	1.83	1.37	1	0.61	0.23	0.16	0.09	0.05	0.03
14	1.67	1.52	2.79	1.78	1.35	1.05	0.6	0.23	0.15	0.09	0.05	0.04
15	1.55	1.65	2.73	1.67	1.32	0.99	0.51	0.23	0.15	0.09	0.05	0.04
16	1.38	1.65	2.86	1.62	1.32	0.97	0.36	0.23	0.14	0.09	0.05	0.04
17	1.29	2.11	3.44	1.62	1.32	0.93	0.36	0.23	0.13	0.09	0.04	0.04
18	1.25	4.66	4.2	1.62	1.32	0.93	0.34	0.23	0.13	0.09	0.04	0.04
19	1.17	5.31	4.35	1.63	1.31	0.93	0.31	0.22	0.13	0.08	0.04	0.04
20	1.22	3.6	4.21	1.64	1.3	0.91	0.31	0.22	0.13	0.07	0.04	0.04
21	1.29	4.89	4.13	1.66	1.3	0.87	0.31	0.22	0.13	0.07	0.04	0.05
22	1.29	7.95	3.97	1.7	1.3	0.87	0.31	0.22	0.13	0.07	0.04	0.05
23	1.35	8.52	4.06	1.68	1.26	0.84	0.31	0.21	0.13	0.07	0.04	0.09
24	1.44	10.07	4.2	1.64	1.2	0.79	0.31	0.19	0.13	0.07	0.04	0.16
25	1.49	7.31	4.2	1.64	1.2	0.79	0.31	0.19	0.13	0.07	0.04	0.16
26	1.85	6.44	4.2	1.69	1.19	0.79	0.31	0.19	0.13	0.07	0.04	0.16
27	2.29	6.1	4.2	2.19	1.18	0.79	0.31	0.19	0.13	0.06	0.04	0.16
28	1.95	5.34	4.2	2.53	1.18	0.79	0.31	0.19	0.12	0.06	0.04	0.14
29	1.69	4.59	4.2	1.94	1.18	0.79	0.3	0.19	0.12	0.06	0.04	0.1
30	1.56	3.91	4.2	1.78	1.18	0.76	0.28	0.19	0.12	0.06	0.04	0.1
31		3.5	4.2		1.18		0.28	0.19		0.06	0.04	0
Total	36.15	107.84	108.29	66.99	43.87	28.51	14.76	7.27	4.24	2.58	1.36	1.84
Min =	0		cumeecs		Total =	423.7	Day cumeecs per Annum			Max =	10.07	cumeecs

1990 - 1991

Date	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
1	0.1	3.09	2.9	4.4	1.33	1.11	0.57	0.23	0.14	0.09	0.06	0.03
2	0.1	3.55	2.7	4.4	1.33	1.11	0.57	0.23	0.14	0.09	0.05	0.03
3	0.1	3.86	2.7	4.37	1.34	1.05	0.57	0.23	0.14	0.09	0.05	0.03
4	0.1	3.1	2.69	4.32	1.35	0.96	0.57	0.22	0.13	0.1	0.05	0.03
5	0.09	3.1	2.66	3.86	1.32	0.96	0.57	0.22	0.11	0.1	0.05	0.03
6	0.09	2.97	2.65	3.09	1.24	0.96	0.57	0.22	0.11	0.09	0.05	0.04
7	0.09	2.75	2.65	2.94	1.17	0.96	0.56	0.22	0.11	0.09	0.05	0.04
8	0.1	2.75	2.68	2.7	1.17	0.96	0.54	0.22	0.11	0.08	0.03	0.04
9	0.1	2.75	2.7	2.7	1.17	0.92	0.54	0.22	0.11	0.07	0.05	0.04
10	0.1	2.88	2.66	2.7	1.17	0.85	0.54	0.22	0.11	0.07	0.06	0.04
11	0.1	3.09	2.66	2.71	1.15	0.85	0.54	0.21	0.11	0.07	0.07	0.04
12	0.1	2.96	5.57	2.95	1.11	0.85	0.54	0.18	0.11	0.07	0.07	0.04
13	0.1	2.47	9.04	2.8	1.11	0.85	0.54	0.18	0.11	0.07	0.06	0.04
14	0.1	2	6.55	2.76	1.11	0.83	0.52	0.18	0.11	0.07	0.06	0.04
15	0.64	2	6.21	2.4	1.11	0.79	0.44	0.18	0.11	0.07	0.06	0.03
16	1.54	2	6.21	1.91	1.11	0.79	0.35	0.18	0.1	0.07	0.06	0.03
17	1.13	2.41	6.41	1.84	1.11	0.76	0.35	0.18	0.1	0.07	0.05	0.03
18	1.6	2.96	6.56	1.71	1.11	0.71	0.35	0.18	0.1	0.07	0.05	0.03
19	1.76	2.71	6.2	1.71	1.11	0.71	0.35	0.18	0.1	0.08	0.04	0.03
20	1.75	2.68	6.2	1.71	1.11	0.71	0.35	0.17	0.1	0.08	0.04	0.03
21	1.67	2.72	8.52	1.72	1.13	0.71	0.34	0.17	0.1	0.08	0.04	0.03
22	1.54	2.64	6.45	1.72	1.17	0.68	0.34	0.17	0.1	0.08	0.04	0.03
23	1.54	2.89	5.92	1.71	1.15	0.64	0.34	0.17	0.1	0.08	0.06	0.03
24	1.71	5.9	5.92	1.65	1.11	0.64	0.32	0.17	0.09	0.08	0.08	0.03
25	2	5.42	5.92	1.54	1.13	0.64	0.29	0.16	0.09	0.09	0.06	0.04
26	2	3.55	5.93	1.54	1.17	0.64	0.29	0.15	0.09	0.09	0.05	0.04
27	2.41	2.7	6.01	1.46	1.17	0.64	0.29	0.15	0.09	0.08	0.04	0.04
28	3.09	2.73	6.05	1.33	1.17	0.64	0.29	0.15	0.09	0.08	0.04	0.04
29	3.09	2.66	5.67	1.33	1.17	0.68	0.29	0.15	0.09	0.08	0.04	0.04
30	3.09	2.7	4.94	1.33	1.17	0.68	0.29	0.15	0.09	0.08	0.04	0.05
31	2.86	2.86	4.4	4.4	1.15	0.68	0.27	0.15	0.09	0.07	0.04	0.05
Total	31.93	92.85	154.33	73.31	36.42	24.28	13.28	5.79	3.01	2.48	1.55	1.11
	Mfm =	0.03	cumeecs		Total =	440.34	Day cumeecs per Annum			Max =	9.04	cumeecs

1991 - 1992

Date	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
1	0.05	0.83	6.59	0.93	0.44	0.24	0.13	0.07	0.04	0.03	0.01	0.01
2	0.07	0.85	5.11	0.93	0.44	0.24	0.13	0.07	0.04	0.03	0.01	0.01
3	0.09	0.88	3.03	0.93	0.44	0.25	0.13	0.07	0.04	0.03	0.01	0.01
4	0.25	0.88	3.04	0.91	0.44	0.42	0.13	0.07	0.04	0.03	0.01	0.01
5	0.28	0.9	2.7	0.86	0.38	0.27	0.13	0.07	0.04	0.12	0.01	0.01
6	1.11	0.93	2.1	0.86	0.27	0.27	0.13	0.06	0.04	0.03	0.01	0.01
7	2.47	0.93	2.13	0.86	0.27	0.27	0.13	0.06	0.04	0.03	0.01	0.01
8	2.47	0.93	2.18	0.86	0.27	0.25	0.12	0.06	0.04	0.03	0.01	0.01
9	3.55	1	2.15	0.86	0.27	0.21	0.12	0.06	0.04	0.03	0.01	0.01
10	5.35	1.11	2.1	0.82	0.27	0.21	0.12	0.06	0.04	0.03	0.01	0.01
11	4.29	1.23	2.1	0.76	0.26	0.21	0.12	0.06	0.04	0.03	0.01	0.01
12	2.3	1.42	2.1	0.76	0.23	0.21	0.11	0.06	0.04	0.03	0.01	0.01
13	2.03	1.42	2.5	0.76	0.23	0.21	0.11	0.06	0.04	0.03	0.01	0.01
14	1.75	2.02	2.73	0.76	0.23	0.2	0.11	0.07	0.04	0.03	0.01	0.01
15	1.75	3.19	2.19	0.76	0.23	0.2	0.11	0.07	0.04	0.02	0.01	0.01
16	1.75	2.59	2.19	0.66	0.23	0.2	0.11	0.07	0.04	0.02	0.01	0.01
17	1.56	3.13	2.19	0.51	0.23	0.2	0.11	0.07	0.04	0.02	0.01	0.01
18	1.24	3.04	2.18	0.49	0.23	0.2	0.11	0.07	0.04	0.02	0.01	0.01
19	1.26	3.06	2.19	0.47	0.23	0.2	0.11	0.07	0.03	0.02	0.01	0.01
20	1.26	3.04	2.19	0.47	0.23	0.2	0.11	0.07	0.03	0.02	0.01	0.01
21	1.26	3.09	2.19	0.47	0.23	0.19	0.11	0.06	0.03	0.02	0.01	0.01
22	1.17	3.13	2.2	0.47	0.23	0.17	0.11	0.05	0.03	0.02	0.01	0.01
23	1.01	3.03	2.2	0.48	0.23	0.17	0.11	0.05	0.03	0.02	0.01	0.01
24	1.02	3.04	2.18	0.48	0.23	0.17	0.11	0.05	0.03	0.02	0.01	0.01
25	1.05	4.9	2	0.47	0.23	0.17	0.11	0.05	0.03	0.02	0.01	0.01
26	1.12	12.41	1.74	0.47	0.23	0.17	0.11	0.05	0.03	0.02	0.01	0.01
27	1.35	19.43	1.26	0.46	0.25	0.17	0.11	0.05	0.03	0.02	0.01	0.01
28	1.43	18.36	1.24	0.44	0.27	0.17	0.11	0.05	0.03	0.02	0.01	0.01
29	1.45	18.1	1.24	0.44	0.38	0.17	0.11	0.05	0.03	0.02	0.01	0.01
30	1.22	17.61	1.21	0.44	0.45	0.16	0.11	0.05	0.03	0.01	0.01	0.01
31		13.53	1.08	0.44	0.24	0.16	0.09	0.05	0.01	0.01	0.01	0.01
Total	46.96	150.01	72.23	19.84	8.79	6.37	3.57	1.88	1.02	0.81	0.3	0.31
	Min =	0.01	cumeecs		Total =	312.09	Day cumeecs per Annum			Max =	19.43	cumeecs

1992 - 1993

Date	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
1	0.02	2.57	3.34	3.04	0.86	0.49	0.44	0.13	0.05	0.04	0.03	0.02
2	0.02	2.53	3.4	2.99	0.86	0.49	0.44	0.13	0.05	0.04	0.03	0.02
3	0.02	2.45	3.52	2.86	0.86	0.47	0.44	0.13	0.05	0.04	0.03	0.02
4	0.02	2.36	3.57	2.81	0.86	0.45	0.44	0.13	0.05	0.04	0.03	0.02
5	0.02	2.21	3.5	2.81	0.86	0.45	0.36	0.13	0.05	0.04	0.03	0.02
6	0.02	2.16	3.41	2.9	0.86	0.45	0.22	0.12	0.05	0.04	0.03	0.02
7	0.02	2.01	3.07	2.96	0.86	0.44	0.22	0.11	0.05	0.04	0.03	0.02
8	0.02	1.92	3.02	2.74	0.86	0.44	0.22	0.11	0.05	0.04	0.02	0.02
9	0.02	1.92	3.02	2.63	0.85	0.44	0.22	0.11	0.05	0.04	0.02	0.02
10	0.02	1.92	3.43	2.05	0.83	0.44	0.22	0.11	0.05	0.04	0.02	0.02
11	0.02	1.92	3.6	1.09	0.83	0.44	0.21	0.11	0.05	0.04	0.02	0.02
12	0.02	1.98	3.81	1.09	0.83	0.46	0.18	0.09	0.05	0.04	0.02	0.02
13	0.02	2.07	5.82	1.09	0.83	0.49	0.18	0.09	0.05	0.04	0.02	0.02
14	0.03	2.07	7.81	1.09	0.8	0.49	0.18	0.09	0.05	0.04	0.02	0.02
15	0.04	2.21	7.05	1.07	0.78	0.58	0.18	0.08	0.05	0.04	0.02	0.02
16	0.11	3.05	7.05	1.05	0.8	0.74	0.18	0.08	0.05	0.04	0.02	0.02
17	3.54	3.4	7.22	1.03	0.74	0.69	0.18	0.08	0.05	0.04	0.02	0.02
18	8.35	4.66	7.43	1.01	0.74	0.62	0.18	0.08	0.05	0.03	0.03	0.02
19	6.95	4.98	7.43	1.04	0.69	0.59	0.17	0.07	0.05	0.03	0.04	0.02
20	6.49	4.49	7.16	0.99	0.62	0.53	0.15	0.07	0.05	0.03	0.04	0.02
21	6.26	3.01	6.82	0.99	0.62	0.53	0.15	0.06	0.05	0.03	0.03	0.03
22	5.98	3.47	5.61	0.99	0.62	0.53	0.15	0.06	0.05	0.03	0.03	0.03
23	5.39	3.38	4.05	0.97	0.62	0.5	0.15	0.05	0.05	0.03	0.03	0.03
24	5	3.65	3.74	0.96	0.62	0.45	0.15	0.05	0.05	0.03	0.03	0.03
25	4.43	4.32	3.14	0.92	0.62	0.45	0.15	0.05	0.05	0.03	0.03	0.03
26	3.8	6.15	2.89	0.86	0.62	0.44	0.14	0.05	0.05	0.03	0.03	0.03
27	3.26	7.47	2.96	0.86	0.59	0.44	0.13	0.05	0.05	0.03	0.03	0.03
28	3.01	5.25	2.98	0.86	0.53	0.44	0.13	0.05	0.05	0.03	0.03	0.03
29	3.01	5.19	2.89	0.86	0.53	0.44	0.13	0.05	0.04	0.03	0.03	0.03
30	2.85	5.19	2.89	0.86	0.53	0.44	0.13	0.05	0.03	0.03	0.03	0.03
31	4.49	4.49	2.96	0.86	0.51	0.44	0.13	0.05	0.03	0.03	0.02	0.03
Total	68.76	104.45	138.59	47.47	22.63	14.85	6.55	2.62	1.39	1.1	0.81	0.74
	Min =	0.02	cumeecs		Total =	409.96	Day cumeecs per Annum			Max =	8.35	cumeecs

1993 - 1994

Date	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
1	1.6	1.68	13.13	3.73	1.08	1.04	0.8	0.72	0.92	0.48	0.36	0.36
2	1.6	1.63	16.68	3.69	1.48	1.04	0.8	0.72	0.92	0.48	0.36	0.36
3	1.68	1.57	13.54	4.24	2.16	1.04	0.8	0.72	0.92	0.48	0.37	0.36
4	1.9	1.38	4.24	4.11	1.76	1.03	0.8	0.72	0.92	0.48	0.39	0.36
5	2.03	1.12	3.9	3.98	2.3	1.01	0.8	0.72	0.92	0.47	0.38	0.36
6	2.1	1.12	3.9	3.42	2.51	1.01	0.8	0.7	0.92	0.46	0.38	0.36
7	2.1	1.23	3.9	3.52	2.35	1.01	0.8	0.64	0.92	0.44	0.38	0.36
8	2.12	1.51	4.37	2.66	2.25	0.99	0.8	0.64	0.92	0.44	0.38	0.37
9	2.17	2.96	4.56	1.85	2.5	0.92	0.8	0.64	0.92	0.44	0.45	0.38
10	2.22	3.9	4.99	1.85	1.87	0.89	0.8	0.64	0.92	0.44	0.71	0.38
11	2.38	4.52	5.29	1.77	1.1	0.89	0.8	0.64	0.92	0.44	0.96	0.38
12	2.44	5.21	12.18	1.57	1.1	0.89	0.8	0.64	0.92	0.44	0.92	0.38
13	2.35	6.83	9.44	1.5	1.35	0.89	0.8	0.64	0.92	0.44	0.74	0.38
14	2.19	9.66	4.61	1.5	1.1	0.89	0.8	0.64	0.92	0.44	0.6	0.38
15	2.27	10.13	4.34	1.5	1.35	0.89	0.8	0.64	0.92	0.43	0.54	0.38
16	2.56	8.72	4.2	1.5	1.1	0.89	0.79	0.64	0.92	0.4	0.4	0.38
17	2.7	5.4	4.36	1.5	1.33	0.91	0.76	0.64	0.92	0.4	0.39	0.42
18	2.6	5.09	4.34	1.5	1.55	0.91	0.76	0.64	0.92	0.4	0.38	0.38
19	2.52	4.24	4.56	1.47	1.69	0.89	0.76	0.64	0.92	0.4	0.38	0.38
20	2.27	3.62	4.9	1.4	1.26	0.89	0.75	0.64	0.92	0.4	0.38	0.38
21	2.1	2.72	4.56	1.42	1.43	0.89	0.72	0.64	0.92	0.4	0.38	0.38
22	2.02	2.1	4.64	1.31	1.2	0.89	0.72	0.64	0.92	0.39	0.38	0.38
23	1.83	2.23	3.4	1.2	1.2	0.89	0.72	0.64	0.92	0.38	0.38	0.38
24	1.8	2.45	3.9	1.2	1.2	0.89	0.72	0.64	0.92	0.38	0.38	0.38
25	1.8	2.48	6.76	1.2	1.2	0.89	0.72	0.63	0.92	0.38	0.38	0.38
26	1.8	4.25	6.41	1.2	1.2	0.82	0.72	0.6	0.92	0.38	0.38	0.38
27	1.8	8.76	4.81	1.2	1.2	0.8	0.72	0.6	0.92	0.38	0.38	0.41
28	1.8	9.69	4.4	1.2	1.2	0.8	0.72	0.6	0.78	0.38	0.38	0.49
29	1.77	14.65	4.4	1.16	1.2	2.6	0.72	0.6	0.72	0.38	0.38	0.52
30	1.8	13.95	4.24	1.35	1.2	0.8	0.72	0.6	0.72	0.38	0.37	0.52
31		12.06	3.84		1.15		0.72	0.7		0.37		0.52
Total	62.32	156.86	182.79	60.7	46.57	29.19	23.74	20.15	25.62	13	13.64	12.23
	Min =	0.36	cumees		Total =	646.81	Day cumees per Annum			Max =	16.68	cumees

1994-1995

Date	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
1	0.6	8.97	6.75	11.96	1.77	1.4	0.98	0.8	0.76	0.48	0.44	0.95
2	0.61	4.19	6.56	9.55	1.67	1.38	0.98	0.8	0.76	0.48	0.44	0.95
3	0.73	2.73	5.15	7.97	0.58	1.32	0.97	0.8	0.76	0.48	0.44	1
4	0.95	2.76	4.73	6.63	1.53	1.25	0.95	0.8	0.76	0.48	0.44	1.35
5	1.54	2.59	4.04	7.52	1.52	1.23	0.95	0.8	0.76	0.48	0.44	1.11
6	2.04	2.27	3.21	6.44	1.55	1.18	0.95	0.8	0.73	0.48	0.44	0.98
7	2.19	3.17	3.18	4.81	1.53	1.15	0.95	0.79	0.68	0.48	0.44	0.95
8	2.43	5.89	2.92	4.52	1.48	1.15	0.95	0.76	0.68	0.48	0.44	1
9	2.73	14.94	2.57	4.23	1.45	1.15	0.95	0.76	0.68	0.48	0.44	1.22
10	3.3	25.96	2.56	3.73	1.45	1.15	0.95	0.76	0.68	0.48	0.44	1.42
11	3.94	25.83	2.43	3.29	1.57	1.15	0.95	0.76	0.65	0.48	0.44	1.83
12	4.04	25.38	2.18	3.03	2.12	1.15	0.95	0.76	0.6	0.48	0.44	2.04
13	4.92	34.93	2.15	2.81	1.9	1.13	0.95	0.76	0.6	0.48	0.44	1.77
14	5.24	38.27	2.13	2.6	2.5	1.07	0.95	0.76	0.6	0.48	0.44	2.03
15	5.89	15.53	2.12	2.57	2.45	1.01	0.95	0.76	0.6	0.48	0.44	1.52
16	4.89	13.17	2.18	2.48	2.25	1.01	0.95	0.76	0.6	0.48	0.44	1.2
17	4.24	10.35	2.28	2.43	1.6	1.01	0.95	0.76	0.6	0.48	0.44	0.92
18	3.33	8.67	2.48	2.38	1.57	1.01	0.95	0.76	0.6	0.48	0.44	0.68
19	2.79	7.92	2.47	2.18	1.48	1.01	0.95	0.76	0.6	0.48	0.44	0.68
20	2.81	7.37	2.76	1.85	1.45	1.01	0.95	0.76	0.6	0.48	0.59	0.68
21	2.43	7.03	4.22	1.85	1.43	1.01	0.95	0.76	0.6	0.48	0.53	0.68
22	2.6	6.93	4.23	1.85	1.37	1.01	0.95	0.76	0.59	0.48	0.51	0.68
23	3.25	6.99	3.51	1.85	1.25	1.01	0.95	0.76	0.56	0.48	0.48	0.68
24	3.83	8.87	3.05	1.83	3.01	1.01	0.95	0.76	0.56	0.47	1.04	0.68
25	4.51	6.6	4.1	1.8	1.18	1.01	0.95	0.76	0.56	0.44	0.7	0.68
26	6.36	7.03	4.83	1.78	1.15	1.01	0.92	0.76	0.56	0.44	0.64	0.71
27	5.94	10.04	4.5	1.87	1.15	1.01	0.86	0.76	0.56	0.44	0.64	0.73
28	8.62	10.52	5.72	1.75	1.28	1	0.86	0.76	0.53	0.44	0.64	0.79
29	12.83	10.43	5.7	1.75	1.15	0.98	0.86	0.76		0.44	0.93	0.8
30	13.01	13.42	8.03	1.77	1.15	0.98	0.86	0.76		0.44	1.05	0.8
31		12.38	10.27		1.23		0.84	0.76		0.44		0.8
Total	122.59	361.13	123.01	111.08	48.77	32.95	29.03	23.83	17.82	14.59	16.11	32.31
Min =		0.44	cumecs		Total =	933.22	Day cumecs per Annum		Max =		38.27	cumecs

Appendix B

CATCHMENT: KADMANE

TALUK : Sakaleshpur
Avg Rainfall 1988

DISTRICT : Hassan

Date	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	6.64	42.123647	90.304599	18.955999	28.904677	0	0
2	0	0	0	0	0.12	16.713419	16.374071	230.81577	44.743326	61.196282	0	0
3	0	0	0	0	0.84	3.7751272	3.734899	292.50262	39.791384	14.411435	0	0
4	0	0	0	0	2.3284734	2.6	6.8877953	218.58714	6.1224141	4.8852006	0	0
5	0	0	0	0	0	11.508434	4.4597173	39.599132	0.3	33.056771	0	0
6	0	0	0	0	0	3.9477728	7.8924504	4.1380568	43.252155	13.719468	0.1353409	0
7	0	0	0	0	2.3033905	10.214403	4.6551042	1.76	20.4	7.5152724	6.1605655	0
8	0	0	0	1.1331545	0	24.673539	39.361238	43.465798	20.9	0.2	0	0
9	0	0	0	0	0.3797833	36.410006	5.14	18.044649	62.031843	11.22	0	0
10	0	0	0	19.91723	0	39.189871	61.453375	9.1009453	10.209874	8.0977385	0	0
11	0	0	0	1.0843273	0.24	21.385879	17.053141	2.7	8.130336	0	0	0
12	0	0	0	0	0	21.928509	36.904333	2.4359455	2.1128778	0	0	1.2769248
13	0	0	0	0.8287602	0	29.930106	63.927279	4.3875701	0	0	0	0
14	0	0	0	15.556152	0	22.873344	98.861399	17.420586	19.299167	0	0	0
15	0	0	0	1.5739532	0	27.60328	120.71276	25.628035	12.213001	0	0	0
16	0	0	0	0	0	36.963033	194.32437	80.246478	22.831326	0	0	0
17	0	0	0	11.674881	0	15.334551	303.72681	68.952363	30.908544	0	0	0
18	0	0	0	2.1958894	0	14.436772	194.42107	69.004066	46.200488	0	0	0
19	0	0	0	0	0	24.370684	209.0826	222.59079	43.284165	0	0	0
20	0	0	0	0	0	17.584755	113.84147	64.78267	62.692581	0	0	0
21	0	0	0	0	0	10.584918	64.196847	14.122272	29.061239	0	0	0
22	0	0	0	0	0	39.201544	53.833621	12.809097	28.73401	0	0	0
23	0	0	0	2.1712398	0	70.649319	51.727484	18.024943	100.96041	1.0202727	0	0
24	0	0	0	26.466499	9.44	59.452178	9.6370044	43.1	30.464164	0	0	0
25	0	0	0	7.3	0	25.930309	14.875636	3.74	31.431578	0	0	0
26	0	0	0	27.260264	0.2	17.035356	31.714118	5.7263806	24.57327	1.7041011	0	0
27	0	0	0	11.778076	0.5	18.907794	47.729248	47.733485	25.126851	0	0	0
28	0	0	0	0	2.8816404	15.397219	93.307864	14.10045	5.64	0	0	0
29	0	0	0	0.8707584	2.9928437	2.9928437	126.22958	25.123648	15.425409	0	0	0
30	0	0	0	1.4520505	5.8212556	48.891713	15.328729	3.6026623	3.08	0	0	0
31	0	0	0	0.42	0	23.877541	23.877541	15.634264	0	0	0	0
Total	0	0	0	128.94043	21.976097	654.05622	2110.9582	1721.9105	809.39908	189.01122	6.2959064	50.521764
						Annual rainfall =	5693.0694			Daily avg. Rainfall =	15.59745	

Rainfall 1989

Date	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	2.0138141	0	17.688427	33.71818	9.4	29.71449	0	0	0
2	0	0	0	0	0	1.02	17.363971	4.9101364	0	1.9143801	0	0
3	0	0	0	0.3	0	0.6	2.76	6.362302	3.0769368	3.6069	0	0
4	0	0	0	0	28.107081	0	0	44.073877	2.96	2	0	0
5	0	0	0	0.76	0	19.374936	0	116.14012	0	46.551122	0	0
6	0	0	0	0	0	84.553104	7.08	53.739725	6.4039935	0.5921636	0	0
7	0	0	0	0	0.9292416	68.351007	9.54	24.465426	7.0169348	14.69968	0	0
8	0	0	0	0	9.5533992	91.808242	15.319492	20.181981	0	0.2	0	0
9	0	0	0	0	0.1	41.943971	2	8.0831212	5.9419092	0	0	0
10	0	0	0.56	0	0.9292416	62.308295	0.3	14.812501	0.56	12.487305	1.0001701	0
11	0	0	0	0	0.24	87.575087	19.42	43.015911	8.379427	0.84	0	0
12	0	0	0	0	0.56	134.82986	33.821958	76.877358	34.823693	0	0	0
13	0	0	5.4267454	0	0	78.384566	24.904574	40.796313	9.1670281	0	15.421674	0
14	0	0	1.9780758	0	0	36.643753	6.3707394	50.740473	15.028659	0	0	0
15	0	0	0	0	0	58.640961	4.8876992	32.3	47.379772	0	0	0
16	0	0	0	0	0.2	29.063901	60.109756	49.4	0.4	2.2498081	0	0
17	0	0	0	0	0	40.946214	111.71027	153.33226	2.2836372	0	0	0
18	0	0	0	0	0.14	15.993703	110.40962	100.41378	6.3494928	5.1010834	0	0
19	0	0	0	0.54	0	16.038078	101.66857	64.694933	6.3765745	0.6	0	0
20	0	0	0	0.2	0	15.03725	109.77679	32.421199	13.947596	2.0505417	0	0
21	0	0	0	0	0.1	32.235991	145.93691	3.4759615	13.08	0	0	0
22	0	0	0	2.8863526	0.16	62.288322	250.66614	42.33449	2.3814718	0	0	0
23	0	0	1.24	0	0	19.725798	177.71795	70.371105	6.603453	0	0	0
24	0	0	0	28.152343	0	15.868665	255.571	73.721391	2.92	0	0	0
25	0	0	0	0	2.38	34.200873	155.42776	64.009889	6.0041011	0	0	0
26	0	0	0	10.16	0	37.052494	106.7779	39.506213	13.31144	0	0	0
27	0	0	0	1	0	16.891701	77.075424	44.208903	41.420949	0	0	0
28	0	0	0	0	0	85.607767	10.204041	10.498052	64.877931	0.4	0	0
29	0	0	0	0	0	90.711087	17.892427	9.7045835	7.8327752	0.08	0	0
30	0	0	0	0	0	168.06836	0.3	24.045265	4.6545227	13.032691	0	0
31	0	0	0	0	1.1	0	0	36.772166	0	0	0	0
TOTAL	0	0	9.2048212	46.01251	44.498963	1463.4524	1868.7312	1364.8094	362.89679	106.40567	16.421844	0

Annual rainfall = 5282.4336 Daily avg. Rainfall = 14.72421

Avg. Rainfall 1990

Date	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	20.642396	171.20031	41.765917	7.8728958	32.925983	0	0
2	19.958135	0	0	0	0	45.529289	251.3931	54.728207	8.4294448	14.138758	0	0
3	0	0	0	0	0	12.935703	94.844996	17.78802	18.73468	8.5981274	0.1933442	0
4	0	0	0	0	2.24	39.64381	11.586339	11.586339	46.208863	10.500408	0	0
5	0	0	0	0	6.98	3.3083848	20.557117	3.6619432	76.997693	0.8515331	0	0
6	0	0	0	0	2.6304091	22.588118	28.542072	8.8021899	74.275204	3.0345142	0	0
7	0	0	0	4.3283408	0	8.3007977	57.22891	6.62404	16.661099	0.44	0	0
8	0	0	0	0	0	4.5814878	21.873973	26.292003	11.328536	11.197408	0	0
9	0	0	0	0	11.38	25.080469	40.157867	43.936147	1.14	0	0.1933442	0
10	0	0	0	0	4.7	26.411026	53.64522	81.189053	12.257481	0	2.8732391	0
11	0	0	0	0	23.442725	65.120535	65.033602	89.739169	40.905311	0	0	0
12	0	0	0	0	0	39.310541	21.882713	93.369038	43.506714	0.12	0	0
13	0	0	0	0	0	17.625265	14.488151	178.42252	36.572908	8.9475596	0	0
14	0	0	0	0	0	11.815686	60.103677	216.67471	19.08583	6.6026623	0	0
15	0	0	0	0	0	46.88268	57.232353	172.97108	0	9.7524054	0.8120455	0
16	0	0	0	0	0	86.151564	101.31619	174.68564	0	0	0.5800325	0
17	0	0	0	0	2.1399435	104.08733	107.84666	106.91749	0	3.7183596	0.928052	0
18	0	0	0	0	1	102.0431	148.40782	102.8158	0	0.2	0	0
19	0	0	0	0	51.589479	168.95635	54.421465	167.46241	0	2.8483748	0	0
20	0	0	0	0	32.521987	30.445836	50.352835	146.10557	24.743255	0	0	0
21	0	0	0	0	12.625749	26.647359	31.624086	103.68521	10.490232	0	0	0
22	0	0	0	0	26.034866	48.030877	31.38898	137.55438	0.7704101	0	0	0
23	0	0	0	0	5.3083728	38.101982	52.217806	100.36714	23.10543	36.059966	0	0
24	0	0	0	0.3	13.677323	19.581613	92.254373	57.12051	1.42	21.286923	0	0
25	0	0	0	0	2.8897665	60.429716	55.344411	16.534172	2.86	2.2	0	0
26	0	0	0	0	7.6984241	145.70462	20.433843	21.16224	2.0265152	27.892368	4.4802002	0
27	0	0	0	0	35.771139	106.19693	14.309856	5.9149376	5.8547799	48.230274	0	0
28	0	0	0	0	45.632298	68.170334	27.403067	33.440906	0.8619432	32.08024	0	0
29	0	0	0	0	19.658994	93.042074	19.670339	62.269181	2.8301574	15.820273	0	0
30	0	0	0	0	28.363368	56.094026	42.394891	70.465044	2.0046	9.6615689	0	0
31	0	0	0	0	23.643727	56.544872	43.683665	43.683665	6.8034011	6.8034011	0.26	0.26
Total	19.958135	0	0	4.6283408	357.68857	1506.0561	1903.7594	2397.7347	490.94398	313.91111	10.060258	0.26

Annual rainfall = 7005.0005

Daily avg. Rainfall = 19.191782

Avg. Rainfall 1991

Date	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	0.4	32.710802	64.889915	1.1977	0	0	0
2	0	0	0	23.018764	0	21.919384	9.6711468	13.70052	0	2	0.4833604	0
3	0	0	0	0	0	18.200518	12.33881	16.292062	0	7.2049103	25.76054	0
4	0	0	0	7.28	4.9595666	80.018494	40.716729	8.390807	0	5.7584006	11.368638	0
5	0	0	0	0	5.4276687	45.054172	83.290659	6.4346588	0	31.614808	13.484199	0
6	0	0	0	1.02	0	81.289991	76.55971	13.038989	0	0	0	0
7	0	0	0	0	0	165.19103	35.729033	42.004009	0.2	0.8562182	0	0
8	0	0	0	0	0	173.8359	71.864155	59.2314	17.495138	4.76	0	0
9	0	0	0	0	0	187.2401	58.637198	78.239387	0	10.940076	0	0
10	0	0	0.2	34.577334	0	385.247	60.709988	56.529639	0	5.5629286	0	0
11	0	0	0	29.884278	2.12	125.10019	65.24636	46.996158	0	1.38	0	0
12	0	0	0	0	0.44	70.773021	117.86796	59.382206	8.2266493	8.96	0	0
13	0	0	0	0	0	5.8115001	86.719816	137.63511	0.6	2.7	0	0
14	0	0	0	0.48	21.009916	5.2064727	76.429233	138.3904	25.203843	0	0	0
15	0	0	1	2.1368888	1.7825537	13.526422	144.06446	106.56324	7.3079049	0	0.3866884	0
16	0	0	0	0	0	50.94409	113.6202	71.740272	1	18.547239	0.7927111	0
17	0	0	0	0	0	38.128565	80.406831	45.441597	0	36.5448	5.6481671	0
18	0	0	0	1.36	0	11.210194	55.64982	47.561106	0	3.28	0	0
19	0	0	0	0.64	0	57.910039	87.898303	12.891042	0	3.0773402	0	0
20	0	0	0	0	4.6124299	100.80023	89.304753	37.20674	0.2	0	0	11.096462
21	0	0	0	5.8313995	9.5660673	5.7338571	90.003583	44.499754	20.897369	5.68	0	0
22	0	0	0	3.5	2.7690719	12.225949	76.129403	50.591407	16.152703	1.1516252	0	0
23	0	0	0	23.143586	30.518411	12.697954	73.532676	48.473711	25.450508	3.14	0	0
24	0	0	0	0	0	20.66339	91.809626	44.732186	6.3197828	0	0	0
25	0	0	0	0.1	37.549741	59.618079	135.1262	39.568985	8.2	0	0	0
26	0	0	0	0.9	0	41.431752	345.60129	8.2795036	1.2	0	0	0
27	0	0	0	0	20.228756	93.405895	411.59545	7.8425272	6.3594545	0	0	0
28	0	0	0	0	4.6636827	32.729663	197.78119	6.893722	16.532691	4.7235091	0	0
29	0	0	0	0	14.024944	7	233.12276	13.132681	1.24	28.642332	0	0
30	0	0	0	0	6.88	65.869948	157.34981	1.8717948	0	6.413716	0	0
31	0	0	0	0	0.28	90.145621	5.5294423	0	0	0.6	0	0
Total	0	0	1.2	133.87225	166.83281	1989.1838	3301.6336	1333.7706	163.78374	193.5379	57.924304	11.096462

Annual rainfall = 7341.739

Daily avg. Rainfall = 20.114353

Avg. Rainfall 1992

Date	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	1.8	0.2	15.687006	29.373425	27.443944	24.942242	0	0
2	0	0	0	0	0.6	48.839794	1.8013312	36.5313	57.000636	17.323145	0	0
3	0	0	0	0	0	0	0.6	26.800755	103.96858	23.921636	0	0
4	0	0	0	0	0	27.049318	0	12.636071	56.415019	79.267093	0	0
5	0	0	0	0	14.603468	22.17682	2.0957508	3.690284	63.246716	113.7831	0	0
6	0	0	0	0	1	0	11.52	1.44	116.67972	2.16	0	0
7	0	0	0	0	1.16	5.6375904	18.096134	11.759331	107.90467	9.8286601	0	0
8	0	0	0	16.340696	1.14	1.6026623	16.112198	11.225573	54.867889	6.0153554	10.52028	0
9	0	0	0	0	1.08	0.4	9.6061824	54.350357	32.94	3.0810199	7.8842888	0
10	0	0	0	0	2.54	0	6.8168648	80.861053	7.8732466	0	0	0
11	0	0	0	0	8.8460538	7.52	40.107047	128.79465	0.8	3.517713	0	0
12	0	0	0	0	9.5700578	15.896969	36.270739	240.14287	0.58	0	0	0
13	0	0	0	0	0.4	46.735703	36.375946	210.98558	0	1.1617545	0	0
14	0	0	0	0	14.136968	7.5376785	30.000101	143.18692	0	4.2	7.0565995	0
15	0	0	0	0	5.3597298	84.201299	39.289083	109.57427	0.6	44.736308	104.73927	0
16	0	0	0	0	0	96.845235	94.505617	235.0111	0	0.2	82.969523	0
17	0	0	0	0	15.101719	118.35888	175.86368	159.46592	4.397734	0	25.918904	0
18	0	0	0	0.32	3	301.85077	85.304395	131.59124	1.9654858	0	3.0539972	0
19	0	0	0	1.26	0	291.49073	153.09358	109.39769	31.792225	0	0	0
20	0	0	0	0.2	0	274.22209	186.21431	117.02728	51.647982	0	35.932141	0
21	0	0	0	0	0	159.6582	47.623124	45.905154	2.7615974	0	18.741599	0
22	0	0	0	0	0	121.11139	51.135969	63.901714	1.22	0	0.9458226	0
23	0	0	0	10.720517	0.6	110.86575	64.857731	6.6430877	15	1	0	0
24	0	0	0	0	0	28.72	137.29432	15.775231	5.34	0	0	0
25	0	0	0	8.1314085	0	23.291347	102.38107	22.809883	0	4.9216364	0	0
26	0	0	0	15.888082	0	76.372663	271.41826	33.41719	19.367191	0	0	0
27	0	0	0	0.2	0	144.10384	133.4901	41.138821	12.235829	0.4	0	0
28	0	0	0	0	14.835635	57.343643	142.3025	64.200015	68.906433	0	0	0
29	0	0	0	0	0	43.980538	86.86333	51.180073	24.06	0	0	0
30	0	0	0	0	0	62.279615	58.106898	20.109145	1.5	0	0	0
31	0	0	0	0	0	10.984725	19.850704			0	0	0
Total	0	0	0	53.060704	95.773631	2178.2925	2065.818	2238.7767	870.5149	340.45966	297.76243	0

Annual rainfall = 8140.4585 Daily avg Rainfall = 22.302626

Avg. Rainfall 1993

Date	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	1.0690284	63.986176	182.80511	12.04	2	0	0
2	0	0	0	0	0	0.4	124.79179	93.418113	14.0151	41.007777	0	0
3	0	0	0	0	0	5.1419337	104.40096	119.53363	24.330842	21.805681	0	0
4	0	0	0	0	0	2.32	25.531057	19.843198	24.292851	9.64	1.4500813	0
5	0	0	0	0	0	11.917779	35.5	8.0678944	36.98917	2.32	0	0
6	0	0	0	0	0	0.4	5.4203558	3.4038564	20.861943	4.5877253	0	0.1933442
7	0	0	0	0	0	4.1180743	30.078111	23.170639	20.356906	1.6026623	0	14.989626
8	0	0	0	0	0	26.18988	34.706598	17.437671	9.3126326	2.24	0.3866884	5.9936695
9	0	0	0	0	0	0.72	18.133919	44.533427	4.6260753	12.310071	2.0301138	0
10	0	0	0	0	0	16.77429	80.178967	54.424021	0.5	11.23861	7.0680095	0
11	0	0	0	0	0	69.901273	163.13747	83.08237	7.1026308	4.7709546	0	0
12	0	0	0	0	0	52.327727	91.484519	93.173397	5.1990201	4.9397443	1.7400976	0
13	0	0	0	0	0	46.345387	174.73399	57.94613	9.6855188	23.018036	0	0
14	0	0	0	0	0	22.289754	60.627309	180.38852	4.9494583	10.309716	0	0
15	0	0	0	0	0	4.6786453	68.298475	124.29722	11.483461	16.993837	0	0
16	0	0	0	0	0	1.6775393	87.653882	100.28786	0.16	2.7960065	3.0161691	0
17	0	0	0	0	0	22.865403	104.96439	46.808668	0.18	1.2	0	0
18	0	0	0	0	0	38.812191	139.46548	26.132135	0	0	0	0
19	0	0	0	0	0	2.66	70.028106	22.22285	0.6589351	40.718629	0	0
20	0	0	0	0	0	5.5046911	18.364055	76.656249	0	29.292591	0	0
21	0	0	0	0	0	19.18	8.7309476	30.837448	0	17	0	0
22	0	0	0	0	0	5.3934993	17.532717	31.828826	1.8	8.64	0	0
23	0	0	0	0	0	0	14.523102	19.809169	21.390682	3.0355026	0	0
24	0	0	0	0	0	1.08	25.504877	37.344982	6.1979997	0	0	0
25	0	0	0	0	0	4.137145	53.015862	33.616719	0.68	0	0	0
26	0	0	0	0	0	2.2	54.405463	62.41097	3.7481006	0	0	0
27	0	0	0	0	0	0.6	74.503693	7.7574888	3.3460818	0	0	0
28	0	0	0	0	0	3.9075411	116.6541	8.64	0	0	0	0
29	0	0	0	0	0	2.9501989	184.48849	41.876317	0	1.26	0	0
30	0	0	0	0	0	33.153804	168.23232	49.74742	2.1479495	0	0	0
31	0	0	0	0	0	175.43685	20.576911	20.576911	0	0	0	0
Total	0	0	0	90.647113	137.81624	931.91363	2375.912	1737.4722	246.05536	272.72754	15.69116	21.17664

Annual rainfall = 5808.2353

Daily avg. Rainfall = 15.912973

Avg. Rainfall 1994

Date	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	1	80.0408	111.15308	155.68315	19.157027	0	0
2	0	0	0	0	0	18.71284	83.101669	93.644617	103.28544	9.5631202	5.6069811	0
3	0	0	0	5.6517763	0	34.924989	13.758401	57.030942	88.732576	27.018802	2.9959214	0
4	0	0	0	0	0	133.1625	14.426619	33.431451	62.222797	19.771736	1.8174353	0
5	0	0	0	9.690284	20.76	86.823305	42.136384	8.1283383	95.071074	27.70804	0	0
6	0	0	0	0	0.4	36.327944	9.0681166	7.4813752	56.059327	30.794675	0	0
7	0	0	0	0	0.08	19.467333	12.477017	7.6294728	11.372397	3.452587	0	0
8	0	0	0	0	1.6405455	44.72175	36.040101	0.64	6.2487727	0	0	0
9	0	0	0	0	0	24.933707	117.81324	3.3436087	9.5458506	18.583987	0	0
10	0	0	0	21.862085	0	35.293597	160.20825	23.72014	4.6357403	19.336415	0	0
11	0	0	0	33.092761	0	114.72555	292.24204	38.116328	0	0.28	0	0
12	0	0	0	0.84	0	131.58802	327.98953	33.405786	0.52	38.236187	0	0
13	0	0	0	0.4	0	146.13715	245.338	2.68	0.44	23.960295	0	0
14	0	0	0	0	0	114.54367	248.01765	2.2746073	6.2924159	11.953823	0	0
15	0	0	0	0	0	108.97877	151.42582	2	1	16.264455	0	0
16	0	0	0	0	0	67.751259	160.67253	27.192543	0	14.740403	0	0
17	0	0	0	0	0	49.748827	53.92853	43.433755	0	0	0	0
18	12.71166	0	0	0	0	57.669644	84.699059	69.260498	0.6	0	0	0
19	0	0	0	0	0	80.968836	124.87898	45.139807	0	2.1	0	0
20	0	0	0	0	0	20.071664	152.63773	26.597118	0	2.8	0	0
21	0	0	0	0	0.68	2.5890244	139.90667	26.77869	0	0.1	0	0
22	0	0	0	0	0	25.252521	78.403428	17.173545	0	5.0202167	0	0
23	0	0	0	0	0	21.521947	86.625807	65.82885	0	17.6	0	0
24	0	0	0	0	0	85.973076	87.263436	49.088603	0	24.016539	0	0
25	0	0	0	0	0	67.045064	90.094473	39.751272	0	5.26	0	0
26	0	0	0	0	0	104.59381	76.98371	111.98185	2.5843273	37.35386	0	0
27	0	0	0	0	7.8390737	98.228419	103.01363	86.481701	2.3	30.127857	0	0
28	0	0	0	0	35.31472	173.76418	75.826798	84.153414	16.731741	4.52	0	0
29	0	0	0	0	0.4	139.79267	85.515166	76.562599	5.5502545	6.84	0	0
30	0	0	0	0	0	91.167326	106.93113	120.64757	0	0	0	0
31	0	0	0	0	0	89.541864	165.34442	0	0	0	0	0
Total	12.71166	0	0	71.536906	67.11434	2137.4794	3431.0066	1480.096	628.87586	416.56003	10.420338	0

Annual rainfall = 8255.8011 Daily avg. Rainfall = 22.618633

Avg. Rainfall 1995

Date	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	0	60.83884	15.160268	173.86165	5.1797273	0	0
2	0	0	0	0	0.4	0	53.831703	75.893402	211.67585	0	0	0
3	0	0	0	0	0	0	19.472431	98.331197	198.15507	0	0	0
4	0	0	0	0	4.1917503	2.24	6.0808668	43.600676	101.15395	0	0	0
5	0	0	0	0	16.78839	0	23.071292	12.662263	62.348677	2.0397338	21.761902	0
6	0	0	0	26.698046	10.078364	0	47.3515	13.22978	48.533147	3.2353579	3.2481822	0
7	0	0	0	0	0	0	18.479945	66.243455	29.471037	6.6259912	0	0
8	0	0	0	0	6.8296119	0	16.914406	77.861225	12.729996	0.12	0	0
9	0	0	0	0	2.1183596	7.1795541	53.299964	18.945825	6.9548545	5.2830337	0	0
10	0	0	0	0	7.4945828	16.746159	162.16365	0.2	0	29.210639	0	0
11	0	0	0	0	12.618546	61.218867	179.75375	13.713823	0	1.48	0	0
12	0	0	0	0	51.629851	82.930514	149.21419	7.2695809	4.2602527	0	0	0
13	0	0	0	0	25.535063	71.282292	91.345283	12.099997	2.1	0.6	0	0
14	0	0	0	0	83.112033	29.315471	44.55847	8.9875761	45.832628	3	0	0
15	0	0	0	0	1.46	7.0244454	55.517228	6.0181689	36.803983	0	0	0
16	0	0	0	0	2.8101719	9.2784687	208.54716	29.522002	19.010135	0	0	0
17	0	0	0	0	16.478724	0	4.5998569	28.882818	29.306069	0	0	0
18	0	0	0	0	0	9.345142	133.97811	1.0748805	14.130271	19.36	0	0
19	0	0	0	0	0	4.42	197.42107	20.872909	5.2140783	0.2	0	0
20	0	0	0	0	24.666803	0	7.8972726	24.244053	0	0.2	0	0
21	0	0	0	0	0	9.3795456	113.98776	0.4	14.700088	0	0	0
22	0	0	0	0	1.4	5.7776164	34.720235	0	0.2	0	0	0
23	0	0	0	0	17.080458	0	6.2615839	33.441286	26	5.8147029	0	0
24	0	0	0	0	0	3.5494518	16.365115	2.1	0	15.596367	3.8668835	0
25	0	0	0	0	6.5357423	14.978776	15.823989	12.55536	1.6986688	2.7406441	17.669648	0
26	0	0	0	0	0	0	48.587344	74.919389	95.351551	0	1.6	0
27	0	0	0	0	0	7.42	45.859354	40.830226	17.2	14.842399	0	0
28	0	0	0	0	1.0013312	64.635609	3.0761491	117.68861	1.2	0.6	0	0
29	0	0	0	0	21.678329	2.6	72.006956	127.87982	0	0	0	0
30	0	0	0	0	4.6671508	18.106939	44.249211	211.27894	4.8919805	0	0	0
31	0	0	0	0	11.466313	34.481987	145.15526	6.751407	0	0	0	0
Total	0	0	0	0	113.97084	272.19705	661.88448	2083.7651	1330.4234	1024.2324	124.48	46.546616

Annual rainfall = 5657.5

Daily avg. Rainfall = 15.5

Avg. Rainfall 1996

Date	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	4.3101144	0	132.93563	2.1718419	15.2	0	0
2	0	0	0	1.04	0	1.8101719	0.2	28.799562	2.2424321	80.876747	39.975103	0
3	0	0	0	15.67135	0	8.5168012	2.8032503	61.79724	5.8732196	42.629286	0	0
4	0	0	0	0	0	0	0.5	58.247982	12.4	1	0	0
5	0	0	0	0	0	0	0.6	29.152804	9.3808482	0	0	0
6	0	0	0	0	0	0	14.936509	123.28783	6.5012386	0	0	0
7	0	0	0	0	0	0.8	0.6	33.436542	4.6	0	0	0
8	0	0	0	0	0	4.1	2.8180498	22.268052	8.2082612	0	0	0.9332716
9	0	0	0	0	0	7.7972726	0	85.607472	5.7928487	18.989166	0	0
10	0	0	0	0	0	2.3	31	26.93485	13.086917	10.916127	0	0.3866884
11	0	0	0	10.947317	0	1.1183596	32.954	11.758451	20.6	1.9	0	0
12	0	0	0	0.6	0	30.6	67.977956	22.895351	23.281091	3.2069361	1.0624797	0
13	0	0	0	13.260101	0	102.4698	18.8	30.146803	42.113599	8.7	2.1267859	0
14	0	0	0	0.4	0	356.84722	55.349811	27.004334	2.7929148	11.076657	0	0
15	0	0	0	0	0	101.46648	72.842395	23.177413	16.472318	0	0	5.6263155
16	0	0	0	3.1111918	0	114.91965	90.772006	17.031603	11.085507	8.2	0	31.507094
17	0	0	0	0	0	220.83283	126.332	12.984847	17.884339	0	0	0
18	0	0	0	0	0	119.80108	147.63067	50.12595	9.1466383	2	0	0
19	0	0	0	0	0	95.77681	100.793	16.680465	11.843115	16.076655	0	0
20	0	0	0	0	2.4438484	53.350091	158.91523	1.2791292	15.994335	0	0	0
21	0	0	0	0	0	40.726721	126.11695	6.7946753	2.8985352	0	0	0
22	0	0	0	0	0	13.413373	267.13421	5.0836882	0	0	4.0665582	0
23	0	0	0	3.1263586	4.2	42.483063	251.0557	10.964421	35.17734	0	0	0
24	0	0	0	0	0	3.96	186.86635	72.180208	1.4437818	0	0	0
25	0	0	0	0	0	0.4	149.77308	59.083123	5.8635256	0	0	0
26	0	0	0	0	1.8533817	0	147.17589	28.717808	6.0153219	0	0	0
27	0	0	0	0	0	1.2	184.3363	60.433618	31.825027	1.8477017	0	0
28	0	0	0	0	10.527161	0	103.39255	88.76	94.424216	0	0	0
29	0	0	0	0	0	5.7419092	92.904061	64	17.912393	0	0	0
30	0	0	0	0	6.3479545	6.3942254	77.9	4.2	1.6	0	0	0
31	0	0	0	0	0	112.51249	112.51249	0.4	9.8412361	0	0	0
Total	0	0	0	48.156318	25.372346	1341.136	2624.9925	1216.1699	438.63161	232.46051	47.230927	38.453369

Annual rainfall = 5974.15

Daily avg. Rainfall = 16.367534

Avg. Rainfall 1997

Date	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0.5	3.5054172	0	104.75308	254.79993	0.4	20.253157	0
2	0	0	0	0	0	101.73731	0	80.887677	87.675036	24.243423	10.887697	0
3	0	0	0	0	0	0.4	0	65.511793	104.34498	14.761454	6.0783636	3.570274
4	0	0	0	0	0	0.7	0	84.504411	30.2	2.2	0	1.3534092
5	0	0	0	0	0	0	32.512242	92.958989	110.54217	2.9260253	1	0
6	0	0	0	0	0	0	104.23795	249.65486	3.6	3.1797273	0	0
7	0	0	0	0	0	0	4.4563843	91.500553	266.32161	77.764909	5.5956662	0
8	0	0	0	0	0	0	148.81624	49.746378	9.0382935	0	0	19.298636
9	0	0	0	0	0	0	4.9541774	267.45282	25.3605	5	0	0
10	0	0	0	0	0	0	18.632809	125.10845	22.258821	18.756577	0	1.1600651
11	0	0	0	0	0	0	17.9	46.212091	6.9	32.221924	0.2	5.0269486
12	0.4	0	0	0	0	0	27.117738	45.693372	20.760791	0.4	0	4.3103966
13	0	0	0	0	0	0	6.6475521	83.44603	1.7978331	0.4	0	6.7670462
14	0	0	0	0	0	0	5.0862855	71.975529	0.4	0	0	7.1158514
15	2.3	0	17.461339	0	0	0	8.7075841	59.170199	3.8260278	185.42297	4.2	0
16	0	0	0	0	0	0	7.9809934	67.254202	4.3567922	13.4	0	0
17	0	0	0	0	0	0	25.556237	69.71125	43.960015	109.89892	0	2.9001626
18	0	0	0	0	0	0	13.2	58.841171	19.446861	148.7011	0	0
19	0	0	0	0	0	0	17.4	86.050632	49.862732	31.847832	0	0.7733767
20	0	0	0	0	0	0	18.23104	5.4835331	96.616469	15.111918	0	0
21	0	0	0	0	0	0	5.7995046	15.497911	162.76594	17.761136	0	0
22	0	0	0	0	0	0	4.8343851	21.024852	237.0825	15.083148	12.10306	6.0881021
23	0	0	0	0	0	0	56.371648	32.776164	193.29383	0.4	1.6	74.202427
24	0	0	0	0	0	0	4.78	141.8	85.089904	59.2	3.7978331	0
25	0	0	0	0	0	0	116.3825	132.46994	160.71741	7.5	38.156344	0
26	0	0	0	0	0	0	94.9	118.31655	98.166571	2.0602602	7.3581083	8.2171275
27	0	0	0	0	0	0	113.20079	89.973101	59.164029	4.6767572	0	0.1933442
28	0	0	0	0	0	0	217.0804	67.007502	33.509055	5.8158639	8.792003	0
29	0	0	0	0	0	0	165.4755	183.07655	78.231867	1.0808107	1.6	0
30	0	0	0	0	0	0	143.28544	239.23509	34	39.76533	3.8520505	0
31	0	0	0	0	0	0	218.8316	6.3007432	19.133727	143.9899	122.06522	21.232078
Total	2.7	0	122.66643	63.979715	131.80596	1267.5132	2962.8691	2571.2638	794.03647	143.9899	122.06522	21.232078

Annual rainfall = 8182.8898 Daily avg. Rainfall = 22.418876

Avg. Rainfall 1998

Date	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	10.121917	0.8	0	243.14006	34.426068	37.752899	3.4	6.0918053	0
2	0	0	0	0	0.7	0	199.90003	3	15.62234	3.4	9.1218316	0
3	0	0	0	0	3.8986363	0	171.66076	28.896514	23.637393	34.0862	2.9001626	0
4	0	0	0	0	0	0	173.09192	48.609999	30.846999	31.619667	0	0
5	0	0	0	0	0	0	169.931	17.329708	17.003918	11.763043	0	0
6	0	0	0	0	0	0	104.89265	26.839592	9.7946753	0	7.0546728	0
7	0	0	0	0	0	0	94.776675	22.720405	15.218091	0	4.6628175	0
8	0	0	0	0	0	37.498151	159.10979	79.907399	67.084574	0	50.431002	0
9	0	0	0	0	0	85.385592	191.32353	148.8703	91.742495	2.4	20.941574	0
10	0	0	0	9.4134413	0	48.354335	82.349766	166.60162	19.489563	18.8	0	1.5989491
11	0	0	0	0	22.46868	31.974908	108.74631	164.79044	79.476585	23.780588	0	0
12	0	0	0	0	1.6	18.710276	71.310945	49.086225	122.98003	21.999495	4.310847	0
13	0	0	0	0	7.172571	16.223431	33.214227	28.243303	87.142505	14.433207	0	0
14	0	0	0	0	0	32.126808	28.30844	2	114.82055	37.4	0	0
15	0	0	0	0	17.30325	17.701416	0.8	0	81.732196	59.657005	0	0
16	0	0	0	0	1.2	47.95468	38.600565	0.4	22.729814	59.660228	34.587764	16.944501
17	0	0	0	0	0	27.9	6.1576039	2.3	14.4	53.091212	1.9080821	0
18	0	0	0	0	0	13.488558	7.6345152	32.005365	2.7304091	25.4	0	0
19	0	0	0	0	0	70.296021	5.690284	27.929148	0.2	5.6	0	0
20	0	0	0	0	0	95.629622	15.081775	31.260253	15.73753	0	3.8668835	0
21	0	0	0	1.4	0	90.362522	5.136029	10.619432	5.4082022	0	21.732841	0
22	0	0	0	0	0	84.099042	7.8	0.1	28.903238	0	0	0
23	0	0	0	0	0	98.62411	24.155909	8.4299762	17.202727	0	0	0
24	0	0	0	0	0	98.932891	66.193742	43.37712	5.6065007	0	0	0
25	0	0	0	47.456575	0.8	92.534348	87.095496	120.65942	24.247487	0	0.5800325	0
26	0	0	0	0	24.2	97.979163	37.039985	49.147484	1	0	0	0
27	0	0	3.2451645	0	0.6	115.17713	56.993684	64.635941	1.8526911	24.62234	0	0
28	0	0	0	0	0	178.50925	121.2195	18.055323	56.141048	0	0	0
29	0	0	0	0	0	165.88129	229.62432	6.4142425	27.464221	0	0	0
30	0	0	0	21.385415	0	290.89774	127.39802	3.0505417	16.4	7.8163853	0	0
31	0	0	0	0	0	94.534423	5.4879269	0	0	0	0	0
Total	0	0	3.2451645	89.777347	80.743138	1856.2413	2762.912	1245.1937	1054.3687	438.92937	168.19032	18.543451

Annual rainfall = 7699.601 Daily avg. Rainfall = 21.094797

Avg. Rainfall 1999

Date	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	1.8202727	42.3	89.210269	19.787725	9.2	0	0
2	0	0	0	0	0	16.392808	40.9	121.5	14.146638	11.359455	0	0
3	0	0	0	0	0	35.682417	26.349701	152.17036	20.6	9.3315451	0	0
4	0	0	0	0	0	11.569598	25	108	34.924589	77.603963	0.3866884	0
5	0	0	0	0	0	10.827429	45.5	79.321757	22.8	8.5054172	0	0
6	0	0	0	0	0	7.7123983	56.699402	118.6374	20.826343	15.818942	0	0
7	0	0	0	0	0	3.6384386	42	153.50546	7.3589741	0	0	0
8	0	0	0	0	0	3.9808763	76.8	105.05708	9.5313399	0	0	0
9	0	0	0	0	0	14.600125	138.6	116.26684	14.156357	2	0	0
10	0	0	0	0	0	18.131675	52.659417	17.683506	25.169173	9.2567997	0	0
11	0	0	0	0	0	64.316399	27.8	25.143851	17.2	11.939742	0	0
12	0	0	0	0	0	143.38051	43.622079	16.071292	14.819382	7	0	0
13	0	0	0	0	0	37.642787	65.661909	16.150677	18.501324	1.654858	0	0
14	0	0	0	0	0	49.023546	86.114005	17.414748	11.013312	22.363528	0	0
15	0	0	0	0	0	27.43757	89.940098	20.576573	13.6	1.6026623	0	0
16	0	0	0	0	0	74.160155	72.840415	14.474255	27.4	34.690214	0	0
17	0	0	0	0	0	88.957017	140.2737	2.3583185	0.6	25.6	0	0
18	0	0	0	0	0	157.74445	122.70149	21.311688	0.2	47.261058	0	0
19	0	0	0	0	0	138.31618	132.55363	3.4	0	0.2	0	0
20	0	0	0	0	0	27.864136	60.6	13.760791	0	0	0	0
21	0	0	0	0	0	30.356562	145.17977	5.9191142	0	44.54276	0	0
22	0	0	0	0	0	49.703721	74.182029	0.7	0	61.012931	0	0
23	0	0	0	0	0	10.231162	108.8	0.2	0	14.236527	0	0
24	0	0	0	0	0	49.226678	43.866273	15.182605	0	1	0	0
25	0	0	0	0	0	81.697641	65.053006	41.380568	11.641026	44.424321	0	0
26	0	0	0	0	0	40.842387	133.91279	40.049924	1.2	1	0	0
27	0	0	0	0	0	14.589351	115.42752	26.175834	0	21.314085	0	0
28	0	0	0	0	0	29.384026	116.29323	4.718909	0	41.181314	0	0
29	0	0	0	0	0	3.6	113.72875	9.399985	1	63.295113	0	0
30	0	0	0	0	0	14.281091	128.42581	7.4	0	2.654858	0	0
31	0	0	0	0	0	11.533147	120	12.862855	0	0	0	0
31	0	0	0	0	0	9.7995511	97	0	0	0	0	0
Total	0	0	0	0.6	38.577245	468.552	1210.9047	2505.6053	1376.0047	306.47618	590.05009	0.3866884

Annual rainfall = 6497.1568 Daily avg. Rainfall = 17.80043

Avg. Rainfall 2000

Date	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	16.528457	57.256855	0	37.807899	90.4058	0	0
2	0	0	0	0	6.9894257	20.862855	41.248608	2	145.41465	8.4438484	0	0
3	0	0	0	4.4892931	0	20.031172	4.4987064	33.562417	86.164732	2	0	0
4	0	0	0	1	0	23.640931	44.311543	10.914961	52.374528	3.4218216	0	0
5	0	0	0	0	7.792003	29.361686	20.597163	3.718909	6.137145	1.0739747	0	0
6	0	0	0	0	1.654858	189.6316	20	3.6699012	11.607246	2	0	0
7	0	0	0	0	0	84.444239	73.309025	46.76562	23.686546	2	0	0
8	0	0	0	0	0	87.882317	149.83768	82.414022	1.1010834	20.1	0	0
9	0	0	0	0	2.8	57.059472	129.69439	69.591252	11.807807	9.292591	0	0
10	0	0	0	0.2	48.240025	45.274575	158.45133	57.731955	7.3026048	25.639289	0	0
11	0	0	0	0	0	42.188415	279.85387	74.537836	1.1	9.8727136	0	0
12	0	0	0	0.6	0	31.046316	243.65871	33.029801	0.7	9.4417415	0	0
13	0	0	0	0	0	12.470412	203.57493	0.4	41.861088	0	0	0
14	0	0	0	0	0	14.512553	129.79576	0	25.888452	13.035426	0	0
15	0	0	0	0	0.4	17.325285	32.238864	18.898636	2	5.2	0	0
16	0	0	0	6.7464031	5.9339122	157.58344	101.54999	24.659417	0	0	0	0
17	0	0	0	0.8723233	29.672263	82.764594	87.468765	18.412251	0	0	0	0
18	0	0	0	8.2384536	54.392684	114.49834	46.237353	20.582144	0	0	0	0
19	0	0	0	7.6520355	50.739477	127.24798	30.227859	59.511485	10.928077	0	0	0
20	0	0	0	0	3	93.202007	20.806245	69.43379	43.681641	0	0	0
21	0	0	0	0	1.8	17.006085	1.4	153.30796	5.6498636	0.4	0	0
22	0	0	0	0	2.2	5.0783636	0	203.63318	35.250617	9.7946753	0	0
23	0	0	0	33.487141	0	17.411435	0.64	190.72049	0	0	4.546328	0
24	0	0	0	2.8216039	3.3594545	7.1880796	0	200.8264	5.6384386	0	0	0
25	0	0	0	0	0	14.867824	0	214.68118	54.462295	0	0	0
26	0	0	0	0	18.906688	11.898281	7.3990091	70.516049	5.035426	0	0	0
27	0	0	0	0	6.8919805	33.376009	14.474595	74.950737	3.8094383	0	0	0
28	0	0	0	0	9.8110372	37.938266	29.55456	114.19629	3.6	0	0	0
29	0	0	0	0	2.8	31.892716	3.2958989	73.20557	8.553139	0	0	0
30	0	0	0	0	11.086285	44.936429	1.654858	39.630181	6	0	5.5693732	0
31	0	0	0	0	21.634866	0	1	27.867309	0	0	0	0
Total	0	0	0	66.107274	290.10496	1489.1501	1934.0366	1993.3697	637.56271	212.12188	10.115701	0

Annual rainfall = 6632.569

Daily avg. Rainfall = 18.171422

Avg. Rainfall 2001

Date	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	18.49876	0	0	0	0	33.042007	22.504001	5.2768773	6.4820818	0	0
2	0	0	0	0	0	0	50.744376	54.831988	0.6	1.2	0	0
3	0	0	0	0	0.6	0	122.07254	70.199007	1.2	0	0	0
4	0	0	0	0	0	1.8287602	108.50916	84.842562	0	4.4	0	0
5	0	0	0	0	1.6	45.203643	125.68	50.2	0	28.066293	14.704817	0
6	0	0	0	0	0	24.745302	125.68	62.5	0	27.266503	9.9373202	0
7	0	0	0	0	0	41.983338	181.78863	65.182835	0	36.106278	33.667984	0
8	0	0	0	0.1	0	29.013362	237.92491	29.576064	0.2	15.572771	8.0237833	0
9	0	0	0	0.2	0	29.652676	166.74296	16.617295	1.6	3.517713	0	0
10	0	0	0	16.69675	0	62.11452	215.82033	34.291765	0	18.393955	0	0
11	0	0	0	25.901679	0	114.81032	102.4	24.573131	0	72.325605	0	0
12	0	0	0	34.637413	0	148.32126	56.006656	43.2	0	1.8104817	0	0
13	0	0	0	1.6	0	132.22475	62.040826	73.41957	0	1.1010834	0	0
14	0	0	0	14.964574	0	207.67161	32.977	78.356697	25.258856	26.866468	0	0
15	0	0	0	0	0	139.68512	23.721706	80.061758	1.1479495	5.3738746	11.600651	0
16	0	0	0	3.5179182	0	112.72	67.349308	70.729198	11.567321	3.7	37.392093	0
17	0	0	0	10.482212	0	52.02322	59.750682	77.939127	0	0.8794795	0	0
18	0	0	0	2.6	0	191.41634	33.072649	105.53278	3	0.2	0	0
19	0	0	0	0.6	0	68.014137	15.005155	43.77668	122.48677	12.603998	0	0
20	0	0	0	3.2290404	1	31.087156	37.854993	82.795871	27.701384	12.314085	0	0
21	0	0	0	1.2	2.2	34.156727	33.728272	100.10609	5.9490654	0	0	0
22	0	0	0	6.8496284	1.7028325	76.581068	15.9	48.740763	3.5561516	0	2.9001626	0
23	0	0	0	3	9.5164669	64.494708	37.154996	76.69708	39.002172	0	5.6738021	0
24	0	0	0	0	17.141389	84.043963	53.547309	33.329708	3.2424321	0	0	0
25	0	0	0	0	22.56335	18.29771	5.5391818	30.110322	20.111618	18.878289	0	0
26	0	0	0	0	33.694843	35.621884	13.415168	11.298581	10.20057	0	0	0
27	0	0	0	0	20.884759	19.553139	37.586984	16.629576	15.298156	0	0	0
28	0	0	0	0	24.053259	24.984406	32.572704	17.448355	11.706388	0	0	0
29	0	0	0	0	12.686796	19.311635	40.527316	17.663967	6.942327	0	0	0
30	0	0	0	0.4	6.6	14.400563	16.849368	16.72571	2.9101364	0	0	0
31	0	0	0	0.4	0.4	0	4.8224872	13.8	0	0	0	0
Total	0	18.49876	0	125.97921	154.6437	1823.9613	2149.8277	1553.6805	318.95817	297.05896	123.90061	0

Annual rainfall = 6566.5089

Daily avg. Rainfall = 17.990435

Avg. Rainfall 2002

Date	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	7.5252471	38.504106	32.444879	26.8	10.4	0.9667209	0
2	0	0	0	0	0	22.66309	34.073704	40.054943	21.035426	0	0.1933442	0
3	0	0	0	0	0	28.808693	34.396837	55.061249	23.298676	23.684764	0	0
4	0	0	0	0	0.2	5.746338	36.710221	48.957263	14.241874	0	0	0
5	0	0.4	0	1	0	1.7041011	36.152253	100.06387	54.570744	0	0	0
6	0	8.2924159	0	2	0	0.8723233	6.3960015	109.71161	97.46907	0	0	0
7	0	12.28617	0	0	0	1	4.6638499	64.675876	31.643866	12.944972	0	0
8	0.6	0	0	0.4	0	22.898917	8.6947629	97.6975	61.057776	18.295959	0	0
9	0	2.1276767	0	0.2	0	58.291855	34.993394	99.434185	44.404529	10.779752	0	0
10	0	0	0	17.475201	0	5.4648117	46.101574	132.8032	1	10.506263	0	0
11	0	0	0	0	0	3.3018591	85.30817	117.97896	10.94914	61.400716	0	0
12	0	0	0	4.9960065	0	8.792003	99.315951	180.18738	7.9785863	93.024647	0	0
13	0	0	0	5.1397323	1.827429	29.973377	24.498106	167.13937	0	76.650814	0	0
14	0	0	0	4.68	0	67	20.7831	71.0232	16.336625	24.820273	0	0
15	0	0	0	0	0	43.964354	14.044914	70.84583	20.053985	1.8477017	0	0
16	0	0	0	0	10.6	28.842732	61.962167	254.31135	2.482287	1.8	0	0
17	0	0	0	0	13.367191	20.465763	9.6641762	154.62662	0.4	10.2	0	0
18	0	0	0	0	13.464416	47.384647	8.7660603	192.98872	0	0	0	0
19	0	0	0	0	12.865383	47.563228	22.621859	99.613667	0	6.6868085	0	0
20	0	0	0	0	3.4987614	75.411295	11.61096	79.4	0	3.9238509	0	0
21	0	0	0	0	0	82.027579	6.309716	42.122432	0	2.7155461	0	0
22	0	0	0	0	15	108.46898	24.622425	21.202167	0	0	0	0
23	0	0	0	0	4.4	174.1833	19.810469	20.802672	0	0	0	0
24	0	0	0	0	4.4	122.48226	7	42.693912	0	0	0	0
25	0	0	0	0	1.2	71.125748	17.162737	15.112303	0	0	0	0
26	0	0	0	0	0	86.767793	7.9641636	6.4	0	0	0	0
27	0	0	0	0	0	44.329538	18.272088	1.4	0	0	0	0
28	0	0	0	0	0	12.968397	10.898281	0	6.2	20.72571	0	0
29	0	0	0	0	6.0740998	7.9	13.761136	0	1.2	8.9216364	0	0
30	0	0	0	0	8	10.539435	12.690284	0	12.797833	2	0	0
31	0	0	2	1.4	0	22.933707	0.6	0	0	0	0	0
Total	0.6	23.106263	2	40.595041	96.297281	1248.4677	800.68718	2319.3532	453.92042	401.32941	1.1600651	0

Annual rainfall = 5387.5165 Daily avg. Rainfall = 14.760319

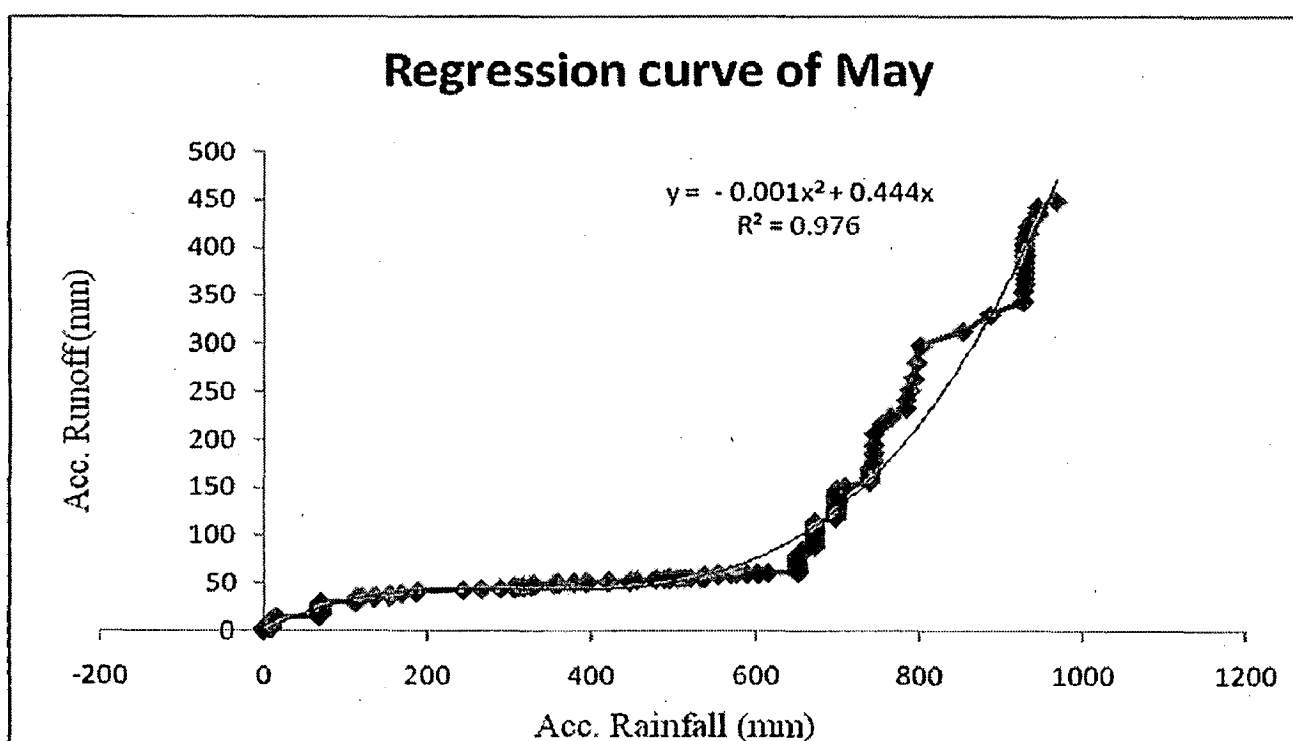
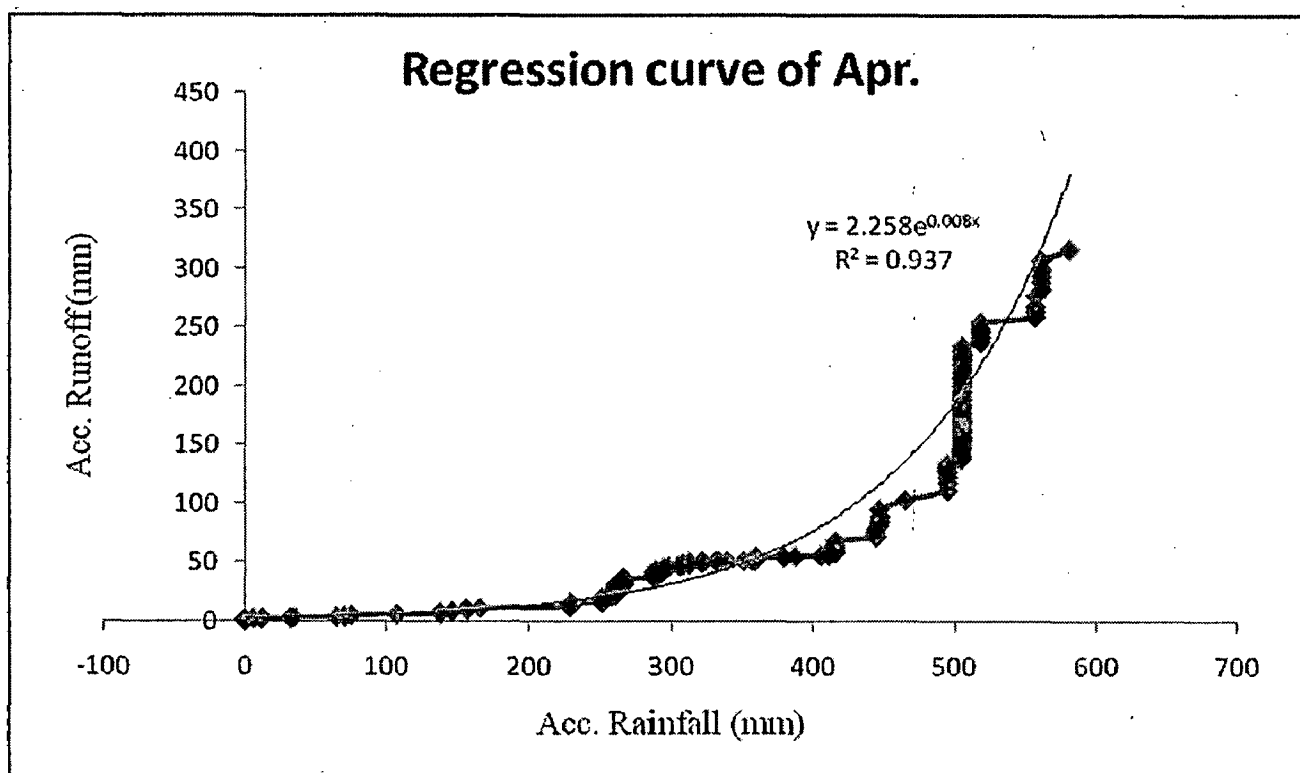
Avg. Rainfall 2003

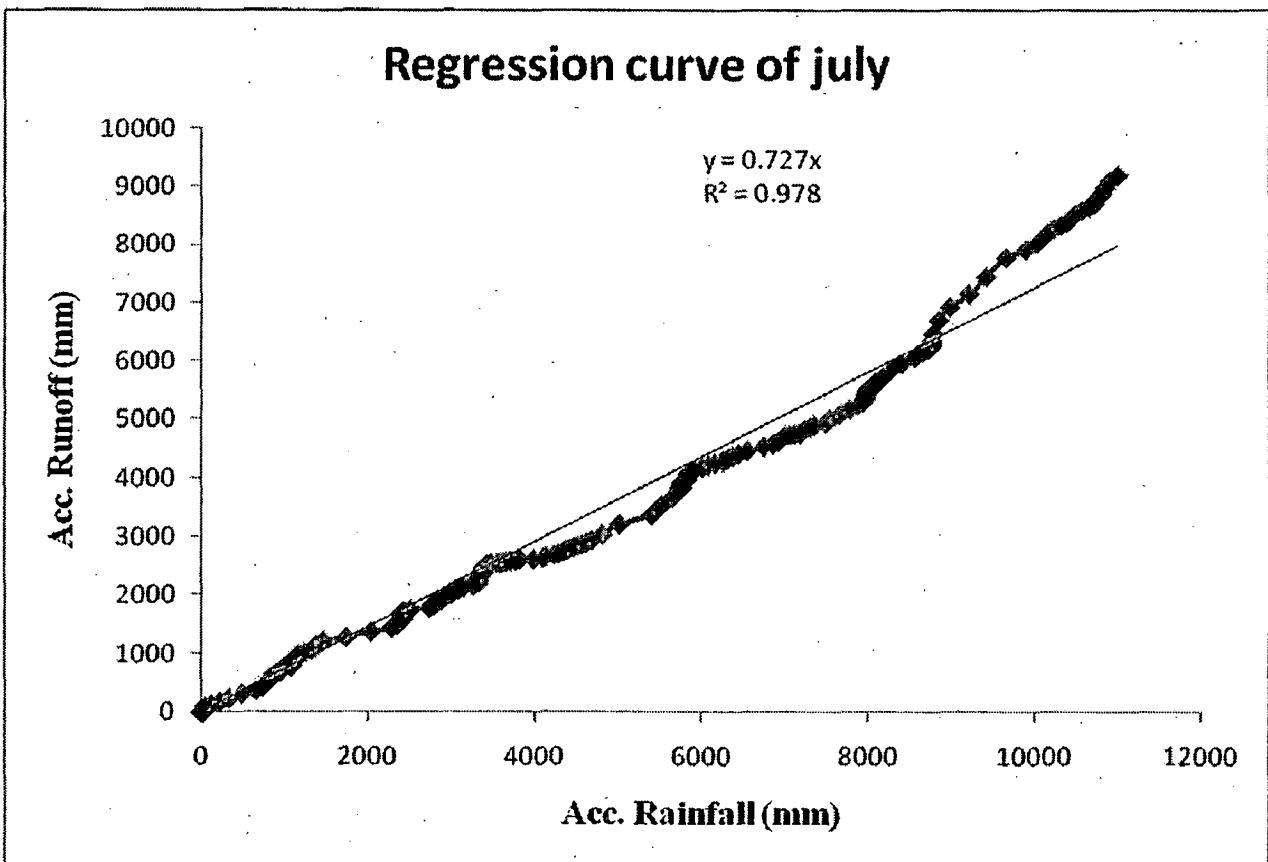
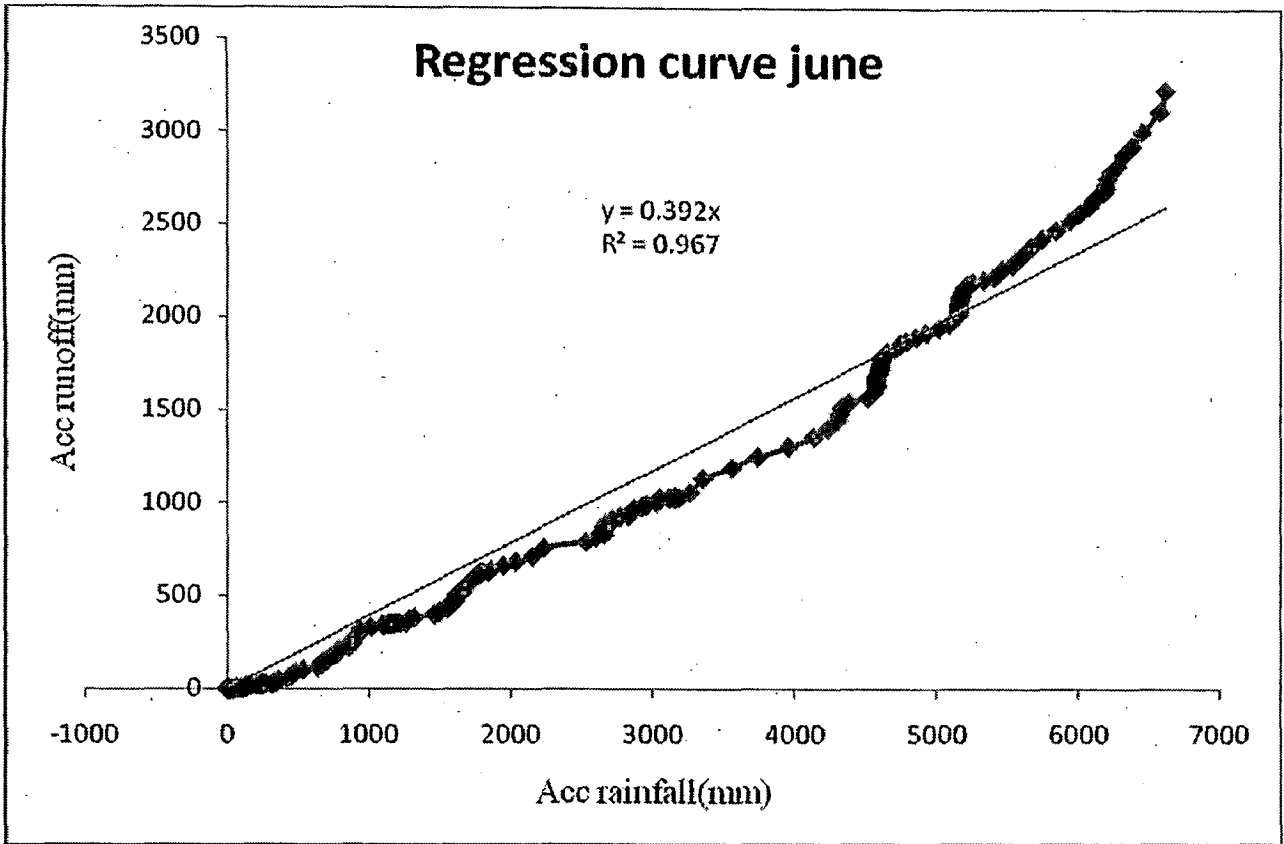
Date	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	3.8	0	0	0	0	42.761351	22.18333	40.947614	21.33691	0	0
2	0	0	0	0	0	0	18.500908	23.235756	12.572831	3.5917978	0	0
3	0	0	0	0	0	0	35.9	26.050552	33.74861	22.231508	1.1411235	0
4	0	0	0	0	0	0.5	81.516532	16	12.6	20.424446	0	0
5	0	0	0	0	0.2	6.2	91.630276	26.580833	39.076757	27.172571	0	0
6	0	0	0	0	0	5	35.698736	82.328828	31.198669	13.243423	0.9667209	0
7	0	0	0	0	0	4.3	53.8	125.90579	21.910141	35.29712	3.6735393	0
8	0	0	0	0	0	2.8	43	35.878449	22.898281	9.0508595	8.9905042	0
9	0	0	0	0.2	0	7.4378181	27.655406	33.25686	9.7901514	4.137145	4.0341299	0
10	0	0	0	3.4	0	13.1	45.6	12.207997	3.6405455	1.1	0	0
11	0	0	0	5.8	0	24.4	15.739747	7.5543075	2	15	0	0
12	0	0	0	12.517713	0	49.4	27.571325	15.320746	5	0.5	0	0
13	0	0	5.3	5.116517	0	24.1	44.118213	24.589115	6.3879294	0.2	0	0
14	0	0	0.7	0	0	62.540058	64.123183	32.395146	24.908925	3.2	0	0
15	0	8.2	0	0	0	49.496672	75.381614	43.019237	33.911027	0.9	2.3201301	0
16	0	0	0	1.6	0	47.009363	144.57578	20.6	15.677693	1.6010834	4.8336044	0
17	0	0	0	0.6	0	42.484799	93.343155	27.741909	8.0947079	0	0	0
18	0	0	0	0	0	89.49142	20.193945	32.920453	15.862855	19.741144	0	0
19	0	0	0	0.6	0	155.61433	7.9641636	16.21113	27.4	9.3357363	0	0
20	0	0	12.101364	1.6	0.4	90.140268	7.2580908	251.94812	2.8	9.925675	0	0
21	0	0	3.8	1.5	0.8	93.366125	16.470287	83.46534	0.8	18.403993	0	0
22	0	0	0	5.2318529	0.3	163.02518	39.286348	109.97728	0	13.235866	0.5800325	0
23	0	0	0	0	2	42.800581	86.87991	83.56619	22.670292	8.0636482	1.063393	0
24	0	0	0	0	3	27.6	95.018236	38.648392	1.1797273	2	0	0
25	0	0	0	0	3.1	18.896452	98.368908	69.426338	4.862855	1.5	0	0
26	0	0	0	0	4.8	18.4	93.368908	20.370955	3.7155461	0	0	0
27	0	0	0	0	3.9	25.238864	151.6002	48.794795	3.3	0	0	0
28	0	0	17.958989	0	4.5	11.317778	116.96018	27.147219	8.3431177	0	0	0
29	0	0	0	0	1.6	25.160465	14.195166	32.693773	0.9	0	0	0
30	0	0	0	0	0.4	18.93968	9.481186	18.830632	2.3	2.2	0	0
31	0	0	0	0	0	6.8600375	20.266909	0	0	0	0	0
Total	0	12	39.860353	38.166083	25	1118.7599	1704.8218	1429.1164	418.49828	263.39293	27.603178	0

Appendix C

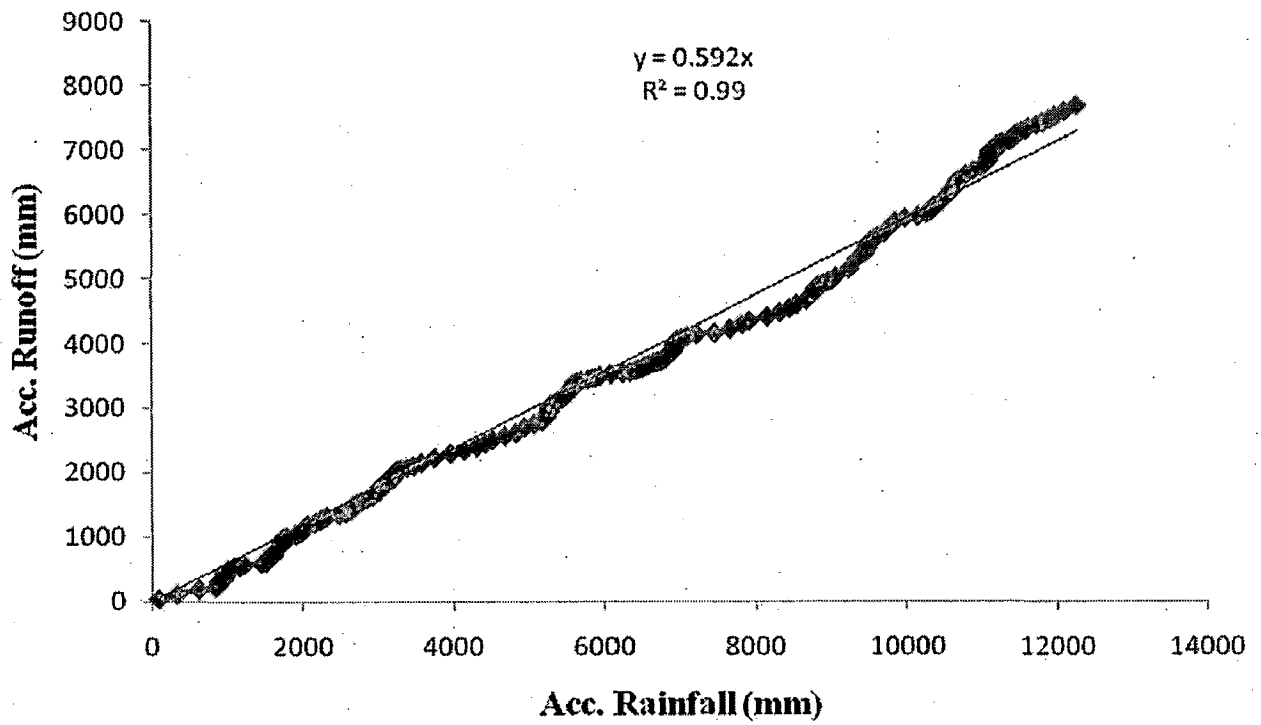
The rainfall-runoff relationship trend of months (from April to October) is given here. For the values of rainfall-runoff refer the appedix A

The y indicates the runoff value and x rainfall value.

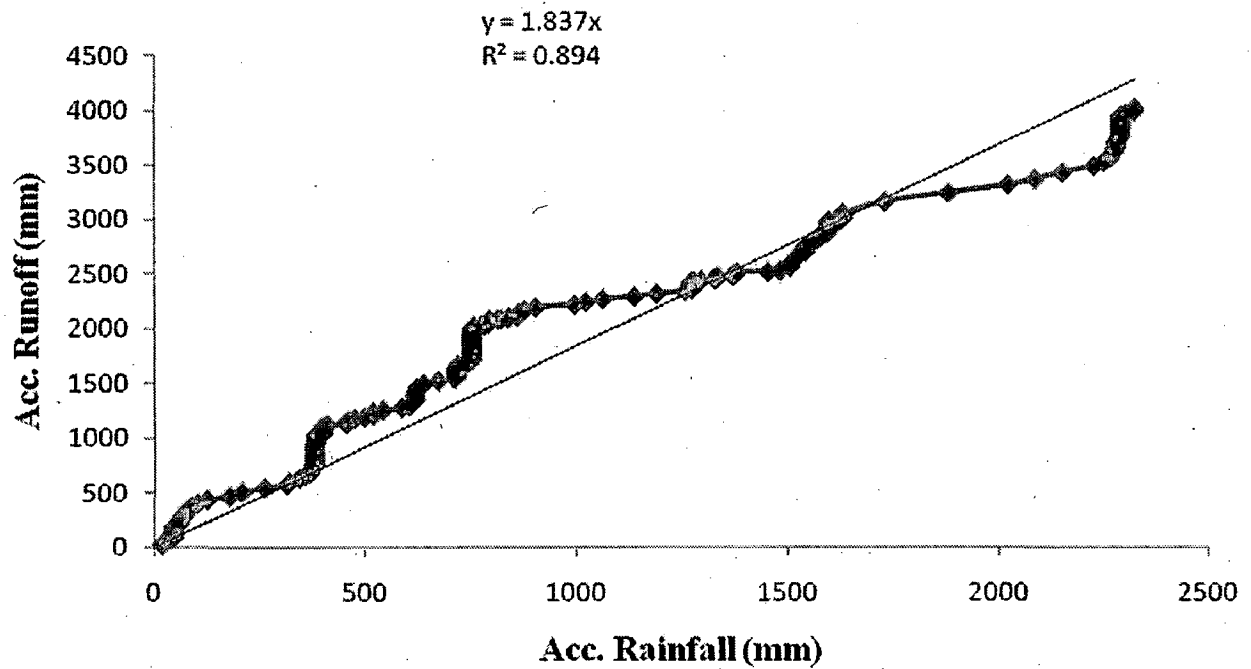




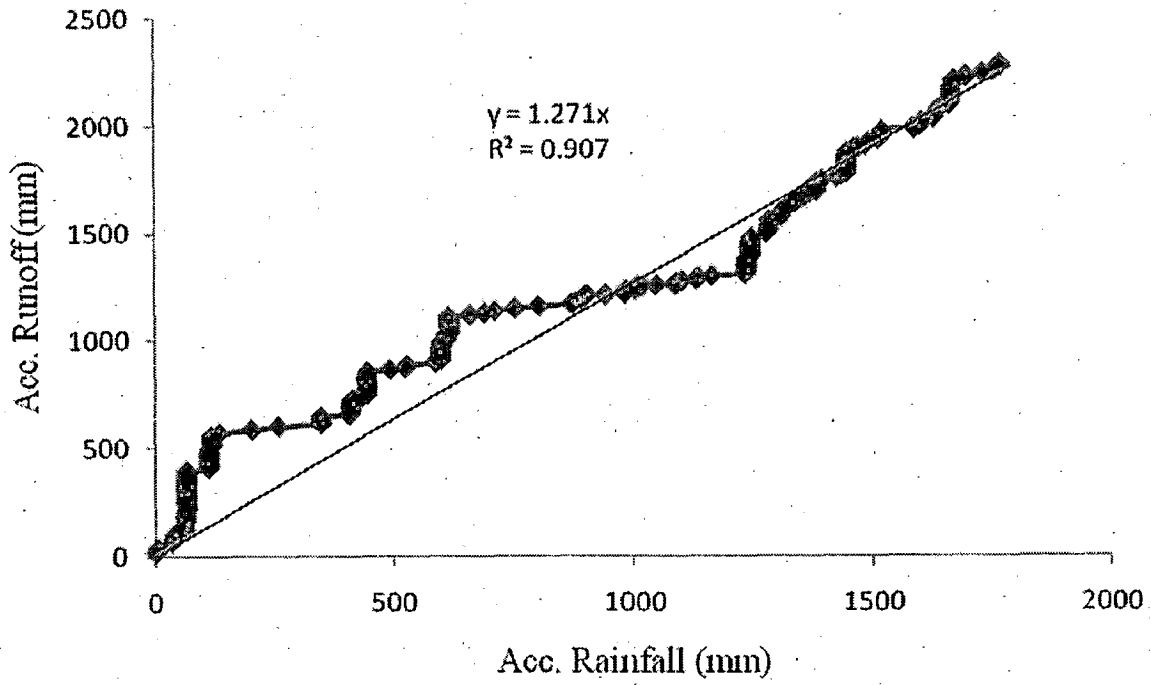
Regression curve of Aug.



Regression curve of Sep.



Regression curve of Oct



Runoff 1988

Date	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0.78	0.42	0.23	0.13	0.00	2.60	30.62	53.46	34.82	36.74	3.69	2.02
2	0.76	0.41	0.23	0.12	0.05	6.55	11.90	136.64	82.19	77.78	3.61	1.98
3	0.75	0.40	0.22	0.12	0.37	1.48	2.72	173.16	73.10	18.32	3.54	1.94
4	0.73	0.39	0.22	0.12	1.04	1.02	5.01	129.40	11.25	6.21	3.47	1.91
5	0.72	0.39	0.22	0.12	1.04	4.51	3.24	23.44	0.55	42.02	3.40	1.87
6	0.70	0.38	0.21	0.11	0.00	1.55	5.74	2.45	79.45	17.44	3.34	1.83
7	0.69	0.37	0.21	0.11	1.03	4.00	3.38	1.04	37.47	9.55	3.27	1.79
8	0.68	0.36	0.20	2.28	0.98	9.67	28.62	25.73	38.39	0.25	3.21	1.76
9	0.66	0.36	0.20	2.20	0.17	14.27	3.74	10.68	113.95	14.26	3.14	1.72
10	0.65	0.35	0.20	2.65	0.16	15.36	44.68	5.39	18.76	10.29	3.08	1.69
11	0.64	0.34	0.19	2.28	0.11	8.38	12.40	1.60	14.94	9.89	3.02	1.66
12	0.62	0.34	0.19	2.20	0.10	8.60	26.83	1.44	3.88	9.31	2.96	1.62
13	0.61	0.33	0.18	2.27	0.10	11.73	46.48	2.60	3.73	8.60	2.90	1.59
14	0.60	0.32	0.18	2.56	0.09	8.97	71.87	10.31	35.45	7.78	2.84	1.56
15	0.59	0.32	0.18	2.29	0.08	10.82	87.76	15.17	22.44	6.90	2.79	1.53
16	0.58	0.31	0.17	2.20	0.07	14.49	141.27	47.51	41.94	6.00	2.73	1.50
17	0.56	0.30	0.17	2.48	0.06	6.01	220.81	40.82	56.78	5.11	2.68	1.47
18	0.55	0.30	0.17	2.30	0.05	5.66	141.34	40.85	84.87	4.27	2.62	1.44
19	0.54	0.29	0.16	2.21	0.04	9.55	152.00	131.77	79.51	3.50	2.57	1.41
20	0.53	0.29	0.16	2.08	0.04	6.89	82.76	38.35	115.17	2.80	2.52	1.38
21	0.52	0.28	0.16	1.95	0.03	4.15	46.67	8.36	53.39	2.21	2.47	1.36
22	0.51	0.27	0.15	1.82	0.02	15.37	39.14	7.58	52.78	1.70	2.42	1.33
23	0.50	0.27	0.15	2.30	0.01	27.69	37.61	10.67	185.46	1.29	2.37	1.30
24	0.49	0.26	0.15	2.79	4.28	23.31	7.01	25.52	55.96	0.95	2.33	1.28
25	0.48	0.26	0.14	2.39	0.00	10.16	10.81	2.21	57.74	0.62	2.28	1.25
26	0.47	0.25	0.14	2.81	0.09	6.68	23.06	3.39	45.14	2.17	2.24	1.23
27	0.46	0.25	0.14	2.48	0.22	7.41	34.70	28.26	46.16	2.08	2.19	1.20
28	0.45	0.24	0.14	2.38	1.29	6.04	67.83	8.35	10.36	1.96	2.15	1.18
29	0.44	0.24	0.13	2.24	0.39	1.17	91.77	14.87	28.34	1.81	2.11	1.16
30	0.44		0.13	2.07	0.65	2.28	35.54	9.07	6.62	3.91	2.06	1.13
31	0.43		0.13		0.19		17.36	9.26		3.76		1.11
Total	18	9	5	54	13	256	1535	1019	1491	319	84	47

Annual runoff = 4851

Avg. Monthly runoff = 404

Runoff 1989

Date	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	1.09	0.59	0.33	2.29	0.19	6.93	24.51	5.56	0.00	0.00	16.56	8.91
2	1.07	0.57	0.33	2.20	0.18	0.40	12.62	2.91	5.65	0.00	15.92	8.73
3	1.05	0.56	0.32	2.26	0.18	0.24	2.01	3.77	5.44	2.43	15.60	8.56
4	1.03	0.55	0.31	2.17	0.17	0.00	1.87	26.09	5.23	4.58	15.29	8.39
5	1.00	0.54	0.31	2.27	13.27	7.59	1.74	68.75	11.76	2.54	14.99	8.23
6	0.98	0.53	0.30	2.18	12.74	33.14	5.15	31.81	12.89	59.17	14.69	8.06
7	0.97	0.52	0.30	2.14	0.00	26.79	6.94	14.48	0.00	0.75	14.40	7.90
8	0.95	0.51	0.29	2.10	0.41	35.99	11.14	11.95	10.92	18.68	14.12	7.75
9	0.93	0.50	0.28	2.06	4.33	16.44	1.45	4.79	1.03	0.25	13.84	7.59
10	0.91	0.49	0.28	2.01	0.04	24.42	0.22	8.77	15.39	0.23	13.56	7.44
11	0.89	0.48	0.27	1.97	0.41	34.33	14.12	25.47	63.97	15.87	13.29	7.30
12	0.87	0.47	0.27	1.94	0.11	52.85	24.59	45.51	16.84	1.07	13.03	7.15
13	0.86	0.46	0.26	1.90	0.25	30.73	18.11	24.15	27.61	1.03	12.77	7.01
14	0.84	0.45	0.26	1.86	0.24	14.36	4.63	30.04	87.04	1.01	12.52	6.87
15	0.82	0.44	0.25	1.82	0.23	22.99	3.55	19.12	0.73	0.99	12.27	6.73
16	0.81	0.43	0.25	1.79	0.00	11.39	43.70	29.24	4.20	0.97	12.03	6.60
17	0.79	0.43	0.24	1.75	0.09	16.05	81.21	90.77	11.66	2.86	11.79	6.47
18	0.77	0.42	0.24	1.70	0.08	6.27	80.27	59.44	11.71	2.50	11.56	6.34
19	0.76	0.41	0.23	2.27	0.06	6.29	73.91	38.30	25.62	6.48	11.33	6.22
20	0.74	0.40	0.23	2.26	0.06	5.89	79.81	19.19	24.03	0.76	11.10	6.09
21	0.73	0.39	0.22	2.20	0.06	12.64	106	2.06	4.37	2.61	10.88	5.97
22	0.72	0.38	0.22	2.31	0.04	24.42	182	25.06	12.13	2.50	10.67	5.85
23	0.70	0.38	0.22	2.26	0.07	7.73	129	41.66	5.36	2.45	10.46	5.74
24	0.69	0.37	0.21	2.83	0.07	6.22	186	43.64	11.03	2.41	10.25	5.63
25	0.67	0.36	0.21	2.65	0.23	13.41	113	37.89	24.45	2.36	10.05	5.51
26	0.66	0.36	0.20	2.45	1.06	14.52	77.63	23.39	76.09	2.31	9.85	5.40
27	0.65	0.35	0.20	2.28	1.02	6.62	56.03	26.17	119		9.65	5.30
28	0.63	0.34	0.19	2.19	1.00	33.56	7.42	6.21	14.39	0.00	9.46	5.19
29	0.62		0.19	2.14	0.98	35.56	13.01	5.75	8.55	0.51	9.27	5.09
30	0.61		0.19	2.10	0.96	65.88	0.22	14.23	8.23	0.10	9.09	4.99
31	0.60		0.18		0.00		0.19	21.77		16.56		4.89
Total	25	13	8	64	39	574	1362	808	626	154	370	208

Annual runoff = 4250

Avg. Monthly runoff = 354

Runoff 1990

Date	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	4.70	2.53	1.42	0.76	1.97	8.09	124	24.73	14.46	41.85	8.31	4.56
2	4.61	2.48	1.39	0.75	1.93	17.85	183	32.40	15.48	17.97	8.14	4.47
3	4.51	2.43	1.36	0.73	1.89	5.07	68.95	10.53	34.42	10.93	7.98	4.38
4	4.42	2.38	1.33	0.72	0.00	0.88	28.82	6.86	84.89	13.35	7.82	4.29
5	4.34	2.33	1.31	0.70	0.00	1.30	14.95	2.17	141	1.08	7.67	4.21
6	4.25	2.29	1.28	0.69	1.17	8.85	20.75	5.21	136	3.86	7.52	4.13
7	4.17	2.24	1.26	2.34	1.12	3.25	41.61	3.92	30.61	0.56	7.37	4.04
8	4.08	2.20	1.23	2.25	1.10	1.80	15.90	15.56	20.81	14.23	7.22	3.96
9	4.00	2.15	1.21	2.20	5.18	9.83	29.19	26.01	2.09	13.67	7.08	3.89
10	3.92	2.11	1.18	2.16	2.11	10.35	39.00	48.06	22.52	0.00	6.94	3.81
11	3.85	2.07	1.16	2.12	10.96	25.53	47.28	53.13	75.14	0.00	6.80	3.73
12	3.77	2.03	1.14	2.07	10.52	15.41	15.91	55.27	79.92	0.15	6.67	3.66
13	3.70	1.99	1.11	2.03	10.31	6.91	10.53	106	67.18	11.37	6.54	3.59
14	3.62	1.95	1.09	1.99	10.11	4.63	43.70	128	35.06	8.39	6.41	3.52
15	3.55	1.91	1.07	1.95	9.91	18.38	41.61	102	4.51	12.40	6.28	3.45
16	3.48	1.87	1.05	1.91	0.00	33.77	73.66	103	4.42	0.00	6.15	3.38
17	3.41	1.84	1.03	1.88	0.95	40.80	78.40	63.30	9.87	4.73	6.03	3.31
18	3.34	1.80	1.01	1.84	0.45	40.00	108	60.87	10.36	0.25	5.91	3.25
19	3.28	1.76	0.99	1.80	25.57	66.23	39.56	99.14	4.82	3.62	5.80	3.18
20	3.21	1.73	0.97	1.77	15.50	11.93	36.61	86.49	6.21	3.48	5.68	3.12
21	3.15	1.69	0.95	1.73	5.77	10.45	22.99	61.38	19.27	3.41	5.57	3.06
22	3.09	1.66	0.93	1.70	12.24	18.83	22.82	81.43	1.42	3.34	5.46	3.00
23	3.03	1.63	0.91	2.26	2.39	14.94	37.96	59.42	42.44	45.83	5.35	2.94
24	2.97	1.60	0.89	2.26	6.26	7.68	67.07	33.82	2.61	27.06	5.24	2.88
25	2.91	1.56	0.88	2.17	1.29	23.69	40.24	9.79	5.25	2.80	5.14	2.82
26	2.85	1.53	0.86	2.13	3.48	57.12	14.86	12.53	3.72	35.45	5.04	2.77
27	2.79	1.50	0.84	2.09	17.16	41.63	10.40	3.50	10.76	61.30	4.94	2.71
28	2.74	1.47	0.82	2.05	22.34	26.72	19.92	19.80	1.58	40.77	4.84	2.66
29	2.68	1.44	0.81	2.01	9.12	36.47	14.30	36.86	5.20	20.11	4.75	2.60
30	2.63		0.79	1.97	13.40	21.99	30.82	41.72	3.68	12.28	4.65	2.55
31	2.58		0.78		11.06		41.11	25.86		8.65		2.50
Total	110	56.18	33.02	53.02	215	590	1384	1419	897	423	189	106

Annual runoff = 5362

Avg. monthly runoff = 487.70

Runoff 1991

Date	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	2.45	1.32	0.75	0.41	2.02	0.16	23.78	38.41	2.20	2.14	0.73	0.40
2	2.40	1.29	0.74	2.71	1.98	8.59	7.03	8.11	2.11	2.54	0.72	0.39
3	2.36	1.27	0.72	2.44	1.94	7.13	8.97	9.64	2.07	9.16	0.70	0.39
4	2.31	1.24	0.71	2.39	2.23	31.37	29.60	4.97	2.03	7.32	0.69	0.38
5	2.26	1.22	0.70	2.19	2.44	17.66	60.55	3.81	0.00	40.18	0.68	0.37
6	2.22	1.19	0.68	2.28	2.34	31.87	55.66	7.72	0.00	0.00	0.66	0.36
7	2.18	1.17	0.67	2.19	2.30	64.75	25.98	24.87	0.37	1.09	0.65	0.36
8	2.13	1.15	0.66	2.14	2.25	68.14	52.25	35.06	32.14	6.05	0.64	0.35
9	2.09	1.12	0.64	2.10	2.21	73.40	42.63	46.32	12.75	13.90	0.62	0.34
10	2.05	1.10	0.63	2.98	0.00	151	44.14	33.47	16.49	7.07	0.61	0.34
11	2.01	1.08	0.62	2.87	0.95	49.04	47.43	27.82	0.00	1.75	0.60	0.33
12	1.97	1.06	0.60	2.75	0.20	27.74	85.69	35.15	15.11	11.39	0.59	0.32
13	1.93	1.04	0.59		0.17	2.28	63.05	81.48	1.10	3.43	0.58	0.32
14	1.89	1.02	0.58	2.27	9.77	2.04	55.56	81.93	46.30	3.30	0.56	0.31
15	1.85	1.00	0.57	2.30	0.79	5.30	105	63.09	13.42	3.23	0.55	0.30
16	1.82	0.98	0.56	2.19	0.76	19.97	82.60	42.47	1.84	23.57	0.54	0.30
17	1.78	0.96	0.55	2.14	0.75	14.95	58.46	26.90	1.76	46.45	0.53	0.29
18	1.75	0.94	0.54	2.10	0.73	4.39	40.46	28.16	30.32	4.17	0.52	0.29
19	1.71	0.92	0.53	2.27	0.72	22.70	63.90	7.63	0.00	3.91	0.51	0.28
20	1.68	0.90	0.52	2.19	2.07	39.51	64.92	22.03	0.37	3.74	0.50	0.27
21	1.64	0.88	0.51	2.37	4.34	2.25	65.43	26.34	38.39	7.22	0.49	0.27
22	1.61	0.87	0.50	2.32	1.24	4.79	55.35	29.95	29.67	1.46	0.48	0.26
23	1.58	0.85	0.49	2.72	14.48	4.98	53.46	28.70	46.75	3.99	0.47	0.26
24	1.55	0.83	0.48	2.51	13.88	8.10	66.75	26.48	11.61	3.83	0.46	0.25
25	1.52	0.82	0.47	2.26	18.08	23.37	98.24	23.42	15.06	3.76	0.45	0.25
26	1.49	0.80	0.46	2.27	16.36	16.24	251	4.90	2.20	3.68	0.44	0.24
27	1.46	0.78	0.45	2.19	9.39	36.62	299	4.64	11.68	3.61	0.44	0.24
28	1.43	0.77	0.44	2.14	2.09	12.83	144	3.96	30.37	6.00	0.43	0.23
29	1.40	0.75	0.43	2.10	6.42	2.74	169	7.77	2.28	36.40	0.42	0.23
30	1.37		0.42	2.06	3.10	25.82	114	1.11	2.19	8.15	0.41	0.23
31	1.35		0.41		0.12		65.54	3.27		0.76		0.22
Total	57.23	29.33	17.59	65.85	126	780	2400	790	371	273	16.70	9.38

Annual runoff = 4878

Avg. Monthly runoff = 407

Runoff 1992

Date	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0.22	0.12	0.07	0.04	0.80	0.08	11.40	17.39	50.41	31.70	0.45	0.25
2	0.21	0.11	0.07	0.04	0.27	19.15	1.31	21.63	105	22.02	0.44	0.24
3	0.21	0.11	0.06	0.03	0.26	0.00	0.44	15.87	191	30.40	0.43	0.24
4	0.20	0.11	0.06	0.03	0.25	10.60	0.00	7.48	104	101	0.42	0.23
5	0.20	0.11	0.06	0.03	6.70	8.69	1.52	2.18	116	145	0.42	0.23
6	0.20	0.11	0.06	0.03	0.45	0.00	8.38	0.85	214	2.75	0.41	0.22
7	0.19	0.10	0.06	0.03	0.52	2.21	13.16	6.96	198	12.49	0.40	0.22
8	0.19	0.10	0.06	2.57	0.51	0.63	11.71	6.65	101	7.65	0.39	0.22
9	0.18	0.10	0.06	2.47	0.48	0.16	6.98	32.18	60.51	3.92	0.38	0.21
10	0.18	0.10	0.06	2.42	1.13	0.12	4.96	47.87	14.46	3.72	0.38	0.21
11	0.18	0.10	0.05	2.38	4.01	2.95	29.16	76.25	1.47	4.47	0.37	0.20
12	0.17	0.09	0.05	2.33	4.34	6.23	26.37	142	1.07	0.00	0.36	0.20
13	0.17	0.09	0.05	2.28	0.18	18.32	26.45	125	0.98	1.48	0.35	0.19
14	0.17	0.09	0.05	2.24	6.48	2.95	21.81	84.77	0.89	5.34	0.35	0.19
15	0.16	0.09	0.05	2.19	2.41	33.01	28.56	64.87	1.10	56.86	0.34	0.19
16	0.16	0.09	0.05	2.15	2.28	37.96	68.71	139	1.00	0.25	0.33	0.18
17	0.16	0.08	0.05	2.11	6.93	46.40	128	94.40	8.08	0.24	0.33	0.18
18	0.15	0.08	0.05	2.26	1.34	118	62	77.90	3.61	0.24	0.32	0.18
19	0.15	0.08	0.05	2.28	1.29	114	111	64.76	58.40	0.23	0.31	0.17
20	0.15	0.08	0.05	2.26	1.26	107	135	69.28	94.88	0.23	0.31	0.17
21	0.14	0.08	0.04	2.19	0.00	62.59	34.62	27.18	5.07	0.23	0.30	0.17
22	0.14	0.08	0.04	2.14	0.00	47.48	37.18	37.83	2.24	0.22	0.30	0.16
23	0.14	0.07	0.04	2.46	0.27	43.46	47.15	3.93	27.56	1.27	0.29	0.16
24	0.14	0.07	0.04	2.37	0.26	11.26	99.81	9.34	9.81	1.13	0.28	0.16
25	0.13	0.07	0.04	2.41	0.25	9.13	74.43	13.50	9.56	6.26	0.28	0.15
26	0.13	0.07	0.04	2.56	0.25	29.94	197	19.78	35.58	0.00	0.27	0.15
27	0.13	0.07	0.04	2.26	0.24	56.49	97.05	24.35	22.48	0.51	0.27	0.15
28	0.13	0.07	0.04	2.19	6.81	22.48	103	38.01	127	0.49	0.26	0.14
29	0.12		0.04	2.14	6.51	17.24	63.15	30.30	44.20	0.48	0.26	0.14
30	0.12		0.04	2.10	0.00	24.41	42.24	11.90	2.76	0.47	0.25	0.14
31	0.12		0.04		0.00		7.99	11.75		0.46		0.14
Total	5.05	2.52	1.55	53.02	56.45	854	1502	1325	1612	441	10.27	5.77

Annual runoff = 5868

Avg. Monthly runoff = 489

Runoff 1993

Date	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0.13	0.07	0.04	0.02	2.18	0.42	46.52	108	22.12	2.54	1.48	0.81
2	0.13	0.07	0.04	0.02	2.13	0.16	90.72	55.30	25.75	52.12	1.45	0.80
3	0.13	0.07	0.04	0.02	2.09	2.02	75.90	70.76	44.70	27.72	1.42	0.78
4	0.13	0.07	0.04	0.02	2.05	0.91	18.56	11.75	44.63	12.25	1.39	0.76
5	0.12	0.07	0.04	0.02	2.01	4.67	25.81	4.78	67.95	2.95	1.36	0.75
6	0.12	0.06	0.04	0.02	1.97	0.16	3.94	2.02	38.32	5.83	1.34	0.73
7	0.12	0.06	0.04	0.02	1.93	1.61	21.87	13.72	37.40	2.04	1.31	0.72
8	0.12	0.06	0.04	0.02	12.31	3.95	25.23	10.32	17.11	2.85	1.29	0.71
9	0.11	0.06	0.03	0.02	0.32	7.11	88.27	26.36	8.50	15.65	1.26	0.69
10	0.11	0.06	0.03	2.58	0.31	10.69	58.29	32.22	0.92	14.28	1.23	0.68
11	0.11	0.06	0.03	2.48	0.30	27.40	119	49.18	13.05	6.06	1.21	0.66
12	0.11	0.06	0.03	2.43	0.30	20.51	66.51	55.16	9.55	6.28	1.19	0.65
13	0.10	0.06	0.03	2.38	0.29	18.17	127	34.30	17.79	29.26	1.16	0.64
14	0.10	0.06	0.03	0.00	10.39	23.77	131	77.43	9.09	13.10	1.14	0.63
15	0.10	0.05	0.03	2.26	2.10	26.77	90.36	100	21.10	21.60	1.12	0.61
16	0.10	0.05	0.03	2.26	0.75	34.36	72.91	71.30	0.29	3.55	1.10	0.60
17	0.10	0.05	0.03	2.48	10.68	41.15	8.45	27.71	0.33	1.53	1.07	0.59
18	0.09	0.05	0.03	3.08	10.46	54.67	5.26	15.47	0.28	1.40	1.05	0.58
19	0.09	0.05	0.03	2.31	6.13	27.45	1.61	13.16	1.21	51.75	1.03	0.57
20	0.09	0.05	0.03	2.22	2.47	7.20	2.53	45.38	1.12	37.23	1.01	0.55
21	0.09	0.05	0.03	2.30	8.88	3.42	6.25	18.26	1.02	21.61	0.99	0.54
22	0.09	0.05	0.03	2.36	7.77	6.87	11.38	18.84	3.31	10.98	0.97	0.53
23	0.09	0.05	0.03	2.24	7.53	0.74	10.56	11.73	39.29	3.86	0.95	0.52
24	0.08	0.05	0.03	2.28	0.00	0.38	18.54	22.11	11.39	3.70	0.93	0.51
25	0.08	0.04	0.03	2.33	0.00	4.74	38.54	19.90	1.25	3.63	0.91	0.50
26	0.08	0.04	0.02	2.21	0.98	12.15	39.55	36.95	6.89	3.55	0.90	0.49
27	0.08	0.04	0.02	2.27	0.90	4.17	54.16	4.59	6.15	0.00	0.88	0.48
28	0.08	0.04	0.02	2.33	1.00	3.25	84.81	5.11	6.00	0.00	0.86	0.47
29	0.08		0.02	2.31	0.95	3.45	134	24.79	0.00	1.60	0.84	0.46
30	0.07		0.02	2.22	0.93	13.00	122	29.45	3.95	1.54	0.83	0.45
31	0.07		0.02		0.00		128	12.18		1.51		0.45
Total	3.11	1.55	0.95	47.51	100	365	1727	1029	460	362	33.68	18.93

Annual runoff = 4149

Avg. Monthly runoff = 346

Runoff 1994

Date	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0.44	0.23	0.13	0.07	1.58	0.39	58.19	65.80	286	24.35	8.02	4.40
2	0.43	0.23	0.13	0.07	1.55	7.34	60.41	55.44	190	12.15	7.86	4.32
3	0.42	0.23	0.13	0.07	1.52	13.69	10.00	33.76	163	34.34	7.71	4.23
4	0.41	0.22	0.12	2.36	1.49	52.20	10.49	19.79	114	25.13	7.55	4.15
5	0.40	0.22	0.12	2.25	9.65	34.03	30.63	4.81	175	35.22	7.41	4.06
6	0.39	0.21	0.12	2.44	0.18	14.24	6.59	4.43	103	39.14	7.26	3.98
7	0.39	0.21	0.12	2.34	0.04	7.63	9.07	4.52	20.89	4.39	7.11	3.90
8	0.38	0.20	0.11	2.30	0.73	17.53	26.20	0.38	11.48	4.15	6.97	3.83
9	0.37	0.20	0.11	2.25	0.70	9.77	85.65	1.98	17.54	23.62	6.84	3.75
10	0.36	0.20	0.11	2.21	0.69	13.84	116	14.04	8.52	24.58	6.70	3.68
11	0.36	0.19	0.11	2.69	0.67	44.97	212	22.56	0.00	0.36	6.57	3.60
12	0.35	0.19	0.11	2.94	0.66	51.58	238	19.78	0.96	48.60	6.44	3.53
13	0.34	0.18	0.10	2.27	0.65	57.29	178	1.59	0.81	30.45	6.31	3.46
14	0.34	0.18	0.10	2.27	0.63	44.90	180	1.35	11.56	15.19	6.19	3.39
15	0.33	0.18	0.10	2.18	0.62	42.72	110	1.18	1.84	20.67	6.06	3.33
16	0.32	0.17	0.10	2.13	0.61	26.56	117	16.10	1.69	18.74	5.94	3.26
17	0.32	0.17	0.10	2.09	0.60	19.50	39.21	25.71	0.00	0.00	5.83	3.20
18	0.31	0.17	0.09	2.05	0.59	22.61	61.58	41.00	1.10	0.00	5.71	3.13
19	0.30	0.16	0.09	2.01	0.00	31.74	90.79	26.72	1.06	2.67	5.60	3.07
20	0.30	0.16	0.09	1.97	0.00	7.87	111	15.75	1.04	3.56	5.49	3.01
21	0.29	0.16	0.09	1.93	0.30	1.01	102	15.85	1.02	0.13	5.38	2.95
22	0.29	0.15	0.09	1.89	0.29	9.90	57.00	10.17	1.00	6.38	5.27	2.89
23	0.28	0.15	0.08	1.85	0.28	8.44	62.98	38.97	0.98	22.37	5.17	2.84
24	0.28	0.15	0.08	1.82	0.28	33.70	63.44	29.06	0.96	30.53	5.06	2.78
25	0.27	0.15	0.08	1.78	0.27	26.28	65.50	23.53	0.94	6.69	4.96	2.72
26	0.26	0.14	0.08	1.75	0.27	41.00	55.97	66.29	4.75	47.48	4.87	2.67
27	0.26	0.14	0.08	1.71	3.54	38.51	74.89	51.20	4.23	38.29	4.77	2.62
28	0.25	0.14	0.08	1.68	16.93	68.12	55.13	49.82	30.74	5.74	4.67	2.57
29	0.25	0.13	0.08	1.64	0.18	54.80	62.17	45.33	10.20	8.69	4.58	2.51
30	0.24		0.07	1.61	0.17	35.74	77.74	71.42	10.00	8.35	4.49	2.46
31	0.24		0.07	2.26	0.16		65.10	97.88		8.18		2.42
Total	10.18	5.22	3.07	58.89	45.83	838	2494	876	1174	550	183	103

Annual runoff = 6341

Avg. Monthly runoff = 5280.00

Runoff 1995

Date	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	2.37	1.27	0.73	0.39	0.00	5.02	44.23	8.97	319	6.58	8.24	4.52
2	2.32	1.25	0.71	0.38	0.18	0.00	39.14	44.93	389	6.33	8.08	4.44
3	2.28	1.22	0.70	0.38	0.16	0.00	14.16	58.21	364	6.07	7.92	4.35
4	2.23	1.20	0.69	0.37	1.88	0.88	4.42	25.81	186	0.00	7.76	4.26
5	2.19	1.18	0.67	0.36	7.74	0.84	16.77	7.50	115	2.59	7.61	4.18
6	2.14	1.15	0.66	2.80	4.58	0.83	34.42	7.83	89.16	4.11	7.46	4.09
7	2.10	1.13	0.65	2.68	4.32	0.81	13.43	39.22	54.14	8.42	7.31	4.01
8	2.06	1.11	0.63	2.63	3.08	0.79	12.30	46.09	23.39	0.15	7.17	3.93
9	2.02	1.09	0.62	2.58	0.95	2.81	38.75	11.22	12.78	6.71	7.03	3.86
10	1.98	1.06	0.61	2.52	3.38	6.56	118	0.12	12.43	37.13	6.89	3.78
11	1.94	1.04	0.60	2.47	5.76	24.00	131	8.12	0.00	1.88	6.75	3.70
12	1.90	1.02	0.58	2.43	25.59	32.51	108	4.30	7.83	0.00	6.62	3.63
13	1.86	1.00	0.57	2.38	11.99	27.94	66.41	7.16	3.86	0.76	6.49	3.56
14	1.83	0.98	0.56	2.33	43.81	11.49	32.39	5.32	84.19	3.81	6.36	3.49
15	1.79	0.96	0.55	2.28	0.65	2.75	40.36	3.56	67.61	3.66	6.23	3.42
16	1.75	0.94	0.54	2.28	1.26	3.64	152	17.48	34.92	3.59	6.11	3.35
17	1.72	0.93	0.53	2.58	1.21	1.80	32.07	17.10	53.84	3.52	5.99	3.29
18	1.69	0.91	0.52	2.47	1.18	3.66	97.40	0.64	25.96	24.61	5.87	3.22
19	1.65	0.89	0.51	2.43	1.16	1.73	144	12.36	9.58	0.25	5.75	3.16
20	1.62	0.87	0.50	2.75	1.14	3.10	71.61	14.35	0.00	0.25	5.64	3.09
21	1.59	0.85	0.49	2.63	1.11	3.68	82.87	0.24	27.00	0.20	5.53	3.03
22	1.56	0.84	0.48	2.28	1.09	2.26	25.24	0.19	0.37	0.14	5.42	2.97
23	1.53	0.82	0.47	2.59	1.07	2.45	24.31	15.39	0.35	7.39	5.31	2.91
24	1.50	0.80	0.46	2.52	1.05	1.39	11.90	1.24	0.35	19.82	5.20	2.86
25	1.47	0.79	0.45	2.47	1.03	5.87	11.50	7.43	3.12	3.48	5.10	2.80
26	1.44	0.77	0.44	2.43	1.00	19.05	54.47	56.45	2.97	2.03	5.00	2.74
27	1.41	0.76	0.43	2.38	3.35	17.98	29.68	10.18	0.00	18.86	4.90	2.69
28	1.38	0.74	0.42	2.33	0.45	25.34	2.24	69.67	2.20	0.76	4.80	2.64
29	1.35		0.42	2.69	1.16	28.23	5.40	75.70	2.13	0.70	4.71	2.58
30	1.33		0.41	2.34	8.37	30.33	32.17	125.1	8.99	0.63	4.62	2.53
31	1.30		0.40		5.22		25.07	85.93		8.58		2.48
Total	55.26	27.59	16.98	64.15	145	268	1515	788	1900	183	188	106

Annual runoff = 5256

Avg. Monthly runoff = 438

Runoff 1996

Date	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	2.43	1.31	0.75	0.40	1.93	1.69	0.00	78.70	3.99	19.32	12.01	6.59
2	2.39	1.28	0.73	2.28	1.90	0.71	0.15	17.05	4.12	103	11.77	6.46
3	2.34	1.26	0.72	2.56	1.86	3.34	2.04	36.58	10.79	54.18	11.54	6.33
4	2.29	1.23	0.70	2.46	1.82	3.22	0.36	34.48	22.78	1.27	11.31	6.21
5	2.25	1.21	0.69	2.41	1.79	0.00	0.44	17.26	17.23	1.22	11.09	6.08
6	2.20	1.18	0.68	2.36	1.75	0.00	10.86	72.99	11.94	1.20	10.87	5.96
7	2.16	1.16	0.66	2.32	1.72	0.31	0.44	19.79	8.45	1.17	10.65	5.85
8	2.12	1.14	0.65	2.27	1.68	1.61	2.05	13.18	15.08	1.15	10.44	5.73
9	2.07	1.12	0.64	2.23	1.65	3.06	0.00	50.68	10.64	24.14	10.23	5.62
10	2.03	1.09	0.62	2.18	1.62	0.90	23	15.95	24	13.87	10.03	5.51
11	1.99	1.07	0.61	2.46	1.58	0.44	24	6.96	38	2.41	9.83	5.40
12	1.95	1.05	0.60	2.27	1.55	12.00	49	13.55	43	4.08	9.64	5.29
13	1.91	1.03	0.59	2.51	1.52	40.17	13.67	17.85	77	11.06	9.45	5.18
14	1.88	1.01	0.58	2.27	1.49	140	40	15.99	5.13	14.08	9.26	5.08
15	1.84	0.99	0.57	2.19	1.46	40	53	13.72	30	0.00	9.08	4.98
16	1.80	0.97	0.55	2.31	1.43	45	66	10.08	20	10.42	8.90	4.88
17	1.77	0.95	0.54	2.22	1.40	87	91.84	7.69	33	0.00	8.72	4.79
18	1.73	0.93	0.53	2.18	1.38	47	107	29.67	16.80	2.54	8.55	4.69
19	1.70	0.91	0.52	2.14	1.35	38	73	9.87	21.76	20	8.38	4.60
20	1.66	0.90	0.51	2.09	1.09	20.91	116	0.76	29	19.63	8.21	4.51
21	1.63	0.88	0.50	2.05	1.00	15.96	91.69	4.02	5.32	19.24	8.05	4.42
22	1.60	0.86	0.49	2.01	0.91	5.26	194	3.01	5.18	18.86	7.89	4.33
23	1.57	0.84	0.48	2.32	1.88	16.65	183	6.49	64.62	18.49	7.73	4.24
24	1.54	0.83	0.47	2.22	1.71	1.55	136	43	2.65	18.12	7.58	4.16
25	1.51	0.81	0.46	2.18	0.00	0.16	109	35	10.77	0.00	7.43	4.08
26	1.48	0.79	0.45	2.14	0.83	0.11	107	17.00	11.05	0.00	7.28	4.00
27	1.45	0.78	0.44	2.09	0.73	0.47	134	36	58	2.35	7.14	3.92
28	1.42	0.76	0.44	2.05	4.78	0.37	75.17	53	173	2.26	7.00	3.84
29	1.39		0.43	2.01	0.00	2.25	68	38	32.91	2.21	6.86	3.76
30	1.36		0.42	1.97	2.86	2.51	57	2.49	2.94	2.17	6.72	3.69
31	1.34		0.41		0.00		81.80	0.24		12.51		3.62
Total	57	28	17	65	47	529	1908	720	811	401	274	154

Annual runoff = 5012

Avg. Monthly runoff = 418

Runoff 1997

Date	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	3.55	1.91	1.09	2.27	1.57	1.83	76.16	151	0.73	25.74	23.37	12.82
2	3.48	1.87	1.07	2.18	55.52	1.79	58.81	51.90	44.54	13.84	22.90	12.57
3	3.41	1.83	1.05	2.18	0.18	1.76	47.63	61.77	27.12	7.73	22.45	12.32
4	3.34	1.80	1.03	2.13	0.31	1.72	61.43	17.88	4.04	0.00	22.00	12.08
5	3.27	1.76	1.01	2.09	0.30	12.74	68	65.44	5.38	1.27	21.57	11.84
6	3.21	1.73	0.99	2.05	0.29	0.00	76	148	6.61	4.04	21.14	11.60
7	3.14	1.69	0.97	2.01	0.29	1.75	67	158	143	7.11	20.72	11.37
8	3.08	1.66	0.95	2.67	0.28	1.55	108	29.45	16.60	6.90	20.31	11.15
9	3.02	1.63	0.93	2.18	0.28	1.94	194	15.01	9.19	0.00	19.91	10.93
10	2.96	1.59	0.91	2.13	0.27	7.30	91	13.18	34.46	0.00	19.52	10.71
11	2.90	1.56	0.89	2.09	5.13	7.02	34	4.08	59.19	0.25	19.13	10.50
12	2.85	1.53	0.87	2.05	0.00	10.63	33	12.29	0.73	0.00	18.75	10.29
13	2.79	1.50	0.86	2.01	3.86	2.61	61	1.06	0.73	0.00	18.38	10.09
14	2.73	1.47	0.84	1.97	3.55	1.99	52	0.24	0.67	0.00	18.02	9.89
15	2.68	1.44	0.82	1.93	0.00	3.41	43	2.27	341	5.34	17.66	9.69
16	2.63	1.41	0.81	1.89	0.21	3.13	49	2.58	25	5.13	17.31	9.50
17	2.57	1.39	0.79	1.86	0.20	10.02	51	26	202	5.03	16.97	9.31
18	2.52	1.36	0.78	1.82	0.20	5.17	43	12	273	4.93	16.63	9.13
19	2.47	1.33	0.76	1.78	0.20	6.82	63	30	59	4.83	16.30	8.95
20	2.42	1.30	0.75	2.70	0.19	7.15	3.99	57	28	4.73	15.98	8.77
21	2.38	1.28	0.73	2.55	0.19	2.27	11.27	96	33	4.63	15.66	8.60
22	2.33	1.25	0.72	2.45	0.18	1.90	15.29	140	27.71	15.38	15.35	8.43
23	2.28	1.23	0.70	2.41	0.16	22.10	23.83	114	0.73	2.03	15.05	8.26
24	2.24	1.20	0.69	2.36	2.15	56	61.86	35	6.98	1.88	14.75	8.10
25	2.19	1.18	0.67	2.31	2.06	46	96.31	95.14	13.78	48.50	14.46	7.93
26	2.15	1.16	0.66	2.27	2.02	37	86	58.11	3.78	9.35	14.17	7.78
27	2.11	1.13	0.65	2.22	1.98	44	65.41	35.03	8.59	9.15	13.89	7.62
28	2.07	1.11	0.63	2.18	1.94	85.10	48.71	19.84	10.68	11.17	13.62	7.47
29	2.03		0.62	2.13	1.90	64.87	133	46.31	1.99	2.03	13.35	7.32
30	1.99		0.61	2.35	1.86	56.17	174	20.13	73.05	4.90	13.08	7.18
31	1.95		0.60		1.82		159	3.73		24		7.04
Total	83	41	25	65	89	506	2154	1522	1459	230	532	299

Annual runoff = 6924

Avg. Monthly runoff = 577

Runoff 1998

Date	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	6.90	3.71	2.12	2.45	0.36	0.24	177	20.38	69.35	4.32	9.36	5.13
2	6.76	3.64	2.08	2.35	0.31	0.23	145	1.78	28.70	4.32	9.17	5.03
3	6.63	3.57	2.04	2.31	1.75	0.23	125	17.11	43.42	43.32	8.99	4.93
4	6.50	3.49	2.00	2.26	1.67	0.22	126	28.78	56.67	40.19	8.81	4.84
5	6.37	3.43	1.96	2.22	1.64	0.22	124	10.26	31.24	14.95	8.64	4.74
6	6.24	3.36	1.92	2.17	1.61	0.21	76.26	15.89	17.99	14.52	8.47	4.65
7	6.12	3.29	1.88	2.13	1.57	0.21	68.90	13.45	27.96	0.00	8.30	4.55
8	6.00	3.23	1.84	2.08	1.54	14.70	116	47.31	123	0.00	8.13	4.46
9	5.88	3.16	1.81	2.04	1.51	33.47	139	88.13	169	3.05	7.97	4.38
10	5.76	3.10	1.77	2.43	1.48	18.95	59.87	98.63	35.80	23.89	7.81	4.29
11	5.65	3.04	1.74	2.35	10.48	12.53	79.06	97.56	146	30.23	7.66	4.20
12	5.54	2.98	1.70	2.31	0.71	7.33	51.84	29.06	226	27.96	7.51	4.12
13	5.43	2.92	1.67	2.26	3.24	6.36	24.15	16.72	160	18.34	7.36	4.04
14	5.32	2.86	1.63	2.22	3.11	12.59	20.58	1.18	211	47.54	7.21	3.96
15	5.21	2.80	1.60	2.17	7.98	6.94	0.58	1.11	150	75.82	7.07	3.88
16	5.11	2.75	1.57	2.13	0.53	18.80	28.06	0.24	41.75	75.83	6.93	3.80
17	5.01	2.69	1.54	2.08	0.51	10.94	4.48	1.36	26.45	67.48	6.79	3.73
18	4.91	2.64	1.51	2.04	0.50	5.29	5.55	18.95	5.02	32.28	6.66	3.65
19	4.81	2.59	1.48	1.99	0.49	27.56	4.14	16.53	0.37	7.12	6.53	3.58
20	4.72	2.54	1.45	1.94	0.48	37.49	10.96	18.51	28.91	6.84	6.40	3.51
21	4.62	2.49	1.42	2.28	0.47	35.42	3.73	6.29	9.93	6.70	6.27	3.44
22	4.53	2.44	1.39	2.19	0.46	32.97	5.67	0.06	53.10	6.57	6.15	3.37
23	4.44	2.39	1.37	2.14	0.46	38.66	17.56	4.99	31.60	6.44	6.03	3.31
24	4.35	2.34	1.34	2.10	0.45	38.78	48.12	25.68	10.30	6.31	5.91	3.24
25	4.27	2.30	1.31	3.30	0.36	36.27	63.32	71.43	44.54	6.19	5.79	3.18
26	4.18	2.25	1.29	3.17	11.33	38.41	26.93	29.10	1.84	6.07	5.67	3.11
27	4.10	2.21	1.26	3.11	0.27	45.15	41.43	38.26	3.40	31.29	5.56	3.05
28	4.02	2.16	1.24	3.05	0.26	69.98	88.13	10.69	103	0.00	5.45	2.99
29	3.94		1.21	2.99	0.25	65.03	167	3.80	50.45	0.00	5.34	2.93
30	3.86		1.19	2.68	0.25	114	92.62	1.81	30.13	9.93	5.24	2.87
31	3.79		1.16		0.24		68.73	3.25		9.55		2.82
Total	161	80.36	49.46	70.92	56.28	729	2009	738	1937	627	213	120

Annual runoff = 6791

Avg. Monthly runoff = 566

Runoff 1999

Date	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	2.76	1.49	0.85	0.47	1.97	0.71	30.75	52.81	36.35	11.69	3.18	1.74
2	2.71	1.46	0.83	0.46	1.93	6.43	29.73	71.93	25.99	14.44	3.11	1.71
3	2.65	1.43	0.82	0.45	1.89	13.99	19.16	90.08	37.84	11.86	3.05	1.68
4	2.60	1.40	0.80	0.44	1.86	4.54	18.18	63.94	64.16	98.63	2.99	1.64
5	2.55	1.37	0.78	0.43	4.92	3.02	33.08	46.96	41.88	10.81	2.93	1.61
6	2.50	1.34	0.77	0.42	11.90	2.87	41.22	70.23	38.26	20.11	2.88	1.58
7	2.45	1.32	0.75	0.41	0.95	1.43	30.53	90.88	13.52	19.76	2.82	1.55
8	2.40	1.29	0.74	0.40	1.78	0.71	55.83	62.19	17.51	0.00	2.76	1.52
9	2.35	1.27	0.72	2.38	1.65	5.72	101	68.83	26.01	2.54	2.71	1.49
10	2.31	1.24	0.71	2.30	2.90	7.11	38.28	10.47	46.24	11.77	2.65	1.46
11	2.26	1.22	0.69	2.26	5.16	25.21	20.21	14.89	31.60	15.18	2.60	1.43
12	2.22	1.19	0.68	2.31	0.42	56.21	31.71	9.51	27.22	8.90	2.55	1.40
13	2.17	1.17	0.67	2.22	0.38	14.76	47.74	9.56	33.99	2.10	2.50	1.37
14	2.13	1.15	0.65	2.18	17.87	19.22	62.60	10.31	20.23	28.42	2.45	1.34
15	2.09	1.12	0.64	2.14	2.38	10.76	65.39	12.18	24.98	2.04	2.40	1.32
16	2.05	1.10	0.63	2.09	2.38	29.07	52.95	8.57	50.33	44.09	2.35	1.29
17	2.01	1.08	0.62	2.05	0.09	34.87	102	1.40	1.10	32.54	2.31	1.27
18	1.97	1.06	0.60	2.01	0.27	61.84	89.20	12.62	0.37	60.07	2.26	1.24
19	1.93	1.04	0.59	1.97	13.15	54.22	96.37	2.01	0.35	0.25	2.22	1.22
20	1.89	1.02	0.58	1.93	14.40	56.91	44.06	8.15	0.35	0.22	2.17	1.19
21	1.85	1.00	0.57	1.89	24.54	16.60	53.93	3.50	0.34	56.61	2.13	1.17
22	1.81	0.98	0.56	2.38	4.65	13.50	79.10	0.41	0.33	77.55	2.09	1.15
23	1.78	0.96	0.55	2.32	24.28	8.05	31.89	0.12	0.33	18.09	2.05	1.12
24	1.74	0.94	0.54	2.59	42.95	1.80	47.29	8.99	0.32	1.27	2.01	1.10
25	1.71	0.92	0.53	2.22	19.80	14.11	97.35	24.50	21.38	56.46	1.97	1.08
26	1.68	0.90	0.51	2.18	6.69	0.12	83.92	23.71	2.20	1.27	1.93	1.06
27	1.64	0.88	0.50	2.14	13.91	6.19	84.55	15.50	2.11	27.09	1.89	1.04
28	1.61	0.87	0.49	2.09	1.61	0.00	82.68	2.79	0.00	52.34	1.85	1.02
29	1.58		0.48	2.05	0.09	5.60	93.37	5.56	1.84	80.45	1.82	1.00
30	1.55		0.48	2.01	5.25	2.00	87.24	4.38	1.72	3.37	1.78	0.98
31	1.52		0.47		4.45		70.52	7.61		3.24		0.96
Total	64.45	32.18	19.81	51.21	236	478	1822	815	569	773	72.41	40.70

Annual runoff = 4909

Avg. Monthly runoff = 409

Runoff 2000

Date	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0.94	0.50	0.28	0.15	2.30	6.48	41.63	0.00	69.45	115	9.99	5.48
2	0.92	0.49	0.28	0.15	3.15	8.18	29.99	1.18	267	10.73	9.79	5.37
3	0.90	0.48	0.27	2.34	3.03	7.85	3.27	19.87	158	2.54	9.60	5.27
4	0.88	0.48	0.27	2.28	2.97	9.27	32.21	6.46	96.21	4.35	9.41	5.16
5	0.87	0.47	0.26	2.19	3.52	11.51	14.97	2.20	11.27	1.37	9.22	5.06
6	0.85	0.46	0.26	2.14	0.74	74.34	14.54	2.17	21.32	2.54	9.04	4.96
7	0.83	0.45	0.25	2.10	0.71	33.10	53.30	27.69	43.51	2.54	8.86	4.86
8	0.82	0.44	0.25	2.06	0.69	34.45	109	48.79	2.02	25.55	8.69	4.77
9	0.80	0.43	0.24	2.02	1.25	22.37	94.29	41.20	21.69	11.81	8.51	4.67
10	0.78	0.42	0.24	2.26	23.75	17.75	115	34.18	13.41	32.59	8.34	4.58
11	0.77	0.41	0.23	2.14	22.74	16.54	203	44.13	2.02	12.55	8.18	4.49
12	0.75	0.41	0.23	2.27	24.75	12.17	177	19.55	1.29	12.00	8.02	4.40
13	0.74	0.40	0.22	2.14	0.00	4.89	148	0.24	76.90	0.00	7.86	4.31
14	0.72	0.39	0.22	2.10	0.00	5.69	94.36	0.19	47.56	16.57	7.70	4.23
15	0.71	0.38	0.21	2.06	0.18	6.79	23.44	11.19	3.67	6.61	7.55	4.14
16	0.70	0.37	0.21	2.38	2.67	61.77	73.83	14.60	3.53	6.34	7.40	4.06
17	0.68	0.37	0.21	2.27	14.05	32.44	63.59	10.90	3.46	6.22	7.25	3.98
18	0.67	0.36	0.20	2.41	27.11	44.88	33.61	12.18	3.39	6.09	7.11	3.90
19	0.65	0.35	0.20	2.40	25.10	49.88	21.98	35.23	20.07	0.00	6.97	3.83
20	0.64	0.35	0.19	2.31	1.34	36.54	15.13	41.10	80.24	0.00	6.83	3.75
21	0.63	0.34	0.19	2.26	0.80	6.67	1.02	90.76	10.38	0.51	6.70	3.68
22	0.62	0.33	0.19	2.22	0.98	1.99	0.00	121	64.76	12.45	6.56	3.60
23	0.60	0.33	0.18	2.95	0.90	6.83	0.47	113	0.00	11.96	6.43	3.53
24	0.59	0.32	0.18	2.31	1.50	2.82	0.39	119	10.36	11.72	6.31	3.46
25	0.58	0.31	0.17	2.22	1.52	5.83	0.31	127	100	11.49	6.18	3.39
26	0.57	0.31	0.17	2.17	8.75	4.66	5.38	41.75	9.25	11.26	6.06	3.33
27	0.56	0.30	0.17	2.13	3.11	13.08	10.52	44.37	7.00	11.04	5.94	3.26
28	0.55	0.29	0.16	2.09	4.45	14.87	21.49	67.60	6.61	10.82	5.82	3.20
29	0.54	0.29	0.16	2.05	1.25	12.50	2.40	43.34	15.71	10.61	5.71	3.13
30	0.53		0.16	2.01	5.05	17.62	1.20	23.46	11.02	10.40	5.59	3.07
31	0.51		0.16		10.07		0.73	16.50		10.19		3.01
Total	21.89	11.22	6.59	62.59	198	584	1407	1180	1182	388	228	128

Annual runoff = 5396

Avg. Monthly runoff = 450

Runoff 2001

Date	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	2.95	1.59	0.91	0.49	2.19	0.17	24.02	13.32	9.69	12.32	6.40	3.51
2	2.89	1.56	0.89	0.48	2.14	0.17	36.89	32.46	1.10	1.40	6.27	3.44
3	2.83	1.52	0.87	0.47	0.27	0.16	88.75	41.56	2.20	2.80	6.15	3.37
4	2.78	1.49	0.85	0.46	0.25	0.72	78.89	50.23	2.11	2.69	6.03	3.31
5	2.72	1.46	0.84	0.45	0.71	17.72	91.37	29.72	2.07	2.63	5.91	3.24
6	2.67	1.44	0.82	0.44	0.69	9.70	91.37	37.00	0.00	2.47	5.79	3.18
7	2.62	1.41	0.80	0.43	0.67	16.46	132	38.59	0.00	0.00	5.68	3.11
8	2.56	1.38	0.79	2.26	0.66	11.37	173	17.51	0.37	0.47	5.56	3.05
9	2.51	1.35	0.77	2.26	0.65	11.62	121	9.84	2.94	3.74	5.45	2.99
10	2.46	1.33	0.76	2.58	0.63	24.35	157	20.30	2.82	3.59	5.34	2.93
11	2.41	1.30	0.74	2.78	0.62	45.01	74.44	14.55	2.77	3.52	5.24	2.88
12	2.37	1.27	0.73	2.98	0.61	58.14	40.72	25.57	0.16	0.21	5.14	2.82
13	2.32	1.25	0.71	2.29	0.60	51.83	45.10	43.46	0.16	0.20	5.03	2.76
14	2.27	1.22	0.70	2.55	0.58	81.41	23.97	46.39	46.40	58.98	4.93	2.71
15	2.23	1.20	0.68	2.24	0.57	54.76	17.25	47.40	2.11	2.68	4.84	2.65
16	2.19	1.18	0.67	2.32	0.56	44.19	48.96	41.87	21.25	27.01	4.74	2.60
17	2.14	1.15	0.66	2.46	0.55	20.39	43.44	46.14	0.00	0.00	4.65	2.55
18	2.10	1.13	0.65	2.31	0.48	75.04	24.04	62.48	5.51	7.00	4.55	2.50
19	2.06	1.11	0.63	2.27	0.00	26.66	10.91	25.92	225	286	4.46	2.45
20	2.02	1.09	0.62	2.32	0.45	12.19	27.52	49.02	50.89	64.68	4.38	2.40
21	1.98	1.06	0.61	2.28	0.98	13.39	24.52	59.26	10.93	13.89	4.29	2.35
22	1.94	1.04	0.60	2.39	0.76	30.02	11.56	28.85	6.53	8.30	4.20	2.31
23	1.90	1.02	0.58	2.31	4.32	25.28	27.01	45.40	71.65	91.06	4.12	2.26
24	1.86	1.00	0.57	2.22	7.90	32.95	38.93	19.73	5.96	7.57	4.04	2.22
25	1.83	0.98	0.56	2.18	10.53	7.17	4.03	17.83	36.95	46.96	3.96	2.17
26	1.79	0.96	0.55	2.14	16.10	13.96	9.75	6.69	18.74	23.82	3.88	2.13
27	1.75	0.94	0.54	2.09	9.71	7.66	27.33	9.84	28.10	35.72	3.80	2.09
28	1.72	0.92	0.53	2.05	11.26	9.79	23.68	10.33	21.50	27.33	3.73	2.05
29	1.68		0.52	2.01	5.79	7.57	29.46	10.46	12.75	16.21	3.66	2.01
30	1.65		0.51	2.27	2.97	5.65	12.25	9.90	5.35	6.79	3.58	1.97
31	1.62		0.50		0.18		3.51	8.17		6.53		1.93
Total	68.83	34.36	21.15	56.75	84.37	715	1563	920	596	767	146	81.95

Annual runoff = 4985

Avg. Monthly runoff = 415

Runoff 2002

Date	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	1.89	1.02	0.57	0.31	2.12	2.95	27.99	19.21	49.23	13.22	2.39	1.31
2	1.85	1.00	0.56	0.30	2.08	8.88	24.77	23.71	38.64	12.99	2.35	1.29
3	1.82	0.98	0.55	0.29	2.04	11.29	25.01	32.60	42.80	30.10	2.30	1.26
4	1.78	0.96	0.54	0.29	0.09	2.25	26.69	28.98	26.16	29.64	2.25	1.24
5	1.74	0.94	0.53	2.28	0.09	0.67	26.28	59.24	100	0.00	2.21	1.21
6	1.71	0.92	0.51	2.29	0.08	0.34	4.65	64.95	179	0.00	2.17	1.19
7	1.68	0.90	0.50	2.18	0.08	0.39	3.39	38.29	58.13	16.45	2.12	1.17
8	1.64	0.88	0.49	2.27	0.08	8.98	6.32	57.84	112	23.25	2.08	1.14
9	1.61	0.87	0.48	2.26	0.08	22.85	25.44	58.87	81.57	13.70	2.04	1.12
10	1.58	0.85	0.48	2.60	0.08	2.14	33.52	78.62	1.84	13.35	2.00	1.10
11	1.55	0.83	0.47	2.36	0.08	1.29	62.02	69.84	20.11	78.04	1.96	1.08
12	1.52	0.82	0.46	2.35	0.07	3.45	72.20	107	14.66	118	1.92	1.05
13	1.49	0.80	0.45	2.35	0.81	11.75	17.81	98.95	0.00	97.42	1.88	1.03
14	1.46	0.78	0.44	2.34	0.78	26.26	15.11	42.05	30.01	31.55	1.85	1.01
15	1.43	0.77	0.43	2.25	0.77	17.23	10.21	41.94	36.84	2.35	1.81	0.99
16	1.40	0.75	0.42	2.21	4.82	11.31	45.05	151	4.56	2.29	1.77	0.97
17	1.37	0.74	0.41	2.16	6.11	8.02	7.03	91.54	0.73	12.96	1.74	0.95
18	1.34	0.72	0.41	2.12	6.16	18.57	6.37	114	0.71	0.00	1.70	0.94
19	1.32	0.71	0.40	2.08	5.88	18.64	16.45	58.97	0.69	8.50	1.67	0.92
20	1.29	0.69	0.39	2.04	1.57	29.56	8.44	47.00	0.68	4.99	1.64	0.90
21	1.27	0.68	0.38	2.00	1.43	32.15	4.59	24.94	0.66	3.45	1.60	0.88
22	1.24	0.67	0.37	1.96	6.89	42.52	17.90	12.55	0.65	3.31	1.57	0.86
23	1.22	0.65	0.37	1.92	1.97	68.28	14.40	12.32	0.64	3.25	1.54	0.85
24	1.19	0.64	0.36	1.88	1.97	48.01	5.09	25.27	0.63	3.18	1.51	0.83
25	1.17	0.63	0.35	1.84	0.53	27.88	12.48	8.95	0.61	3.12	1.48	0.81
26	1.15	0.62	0.35	1.81	0.47	34.01	5.79	3.79	0.60	3.06	1.45	0.80
27	1.12	0.60	0.34	2.34	0.40	17.38	13.28	0.83	0.59	3.00	1.42	0.78
28	1.10	0.59	0.33	2.25	0.33	5.08	7.92	0.71	11.39	26.34	1.40	0.77
29	1.08	0.58	0.33	2.21	2.73	3.10	10.00	0.69	2.20	11.34	1.37	0.75
30	1.06		0.32	2.16	3.62	4.13	9.23	0.00	23.51	2.54	1.34	0.74
31	1.04		0.31		0.62		16.67	0.36		2.44		0.72
Total	44.08	22.59	13.28	57.70	54.83	489	582	1374	840	574	54.55	30.66

Annual runoff = 4338.05

Avg. monthly runoff = 344.84

Runoff 2003

Date	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0.71	0.38	0.22	0.12	1.93	0.17	31.09	13.13	75.22	27.12	2.63	1.45
2	0.69	0.37	0.21	0.11	1.89	0.17	13.45	13.76	23.10	4.57	2.58	1.42
3	0.68	0.37	0.21	0.11	1.85	0.17	26.10	15.42	62.00	28.26	2.53	1.39
4	0.67	0.36	0.20	0.11	1.82	0.20	59.26	9.47	23.15	25.96	2.48	1.36
5	0.65	0.35	0.20	0.11	0.09	2.43	66.62	15.74	71.78	34.54	2.43	1.33
6	0.64	0.34	0.20	0.11	0.09	1.96	25.95	48.74	57.31	16.83	2.38	1.31
7	0.63	0.34	0.19	0.10	0.08	1.69	39.11	74.54	40.25	44.86	2.34	1.28
8	0.61	0.33	0.19	0.10	0.08	1.10	31.26	21.24	42.06	11.50	2.29	1.26
9	0.60	0.32	0.19	2.26	0.08	2.92	20.11	19.69	17.98	5.26	2.24	1.23
10	0.59	0.32	0.18	2.32	0.08	5.14	33.15	7.23	6.69	1.40	2.20	1.21
11	0.58	0.31	0.18	2.37	0.08	9.56	11.44	4.47	3.67	19.07	2.16	1.18
12	0.57	0.31	0.17	2.50	0.08	19.36	20.04	9.07	9.19	0.64	2.11	1.16
13	0.56	0.30	0.17	2.35	0.07	9.45	32.07	14.56	11.73	0.25	2.07	1.14
14	0.54	0.29	0.17	2.28	0.07	24.52	46.62	19.18	45.76	4.07	2.03	1.11
15	0.53	0.29	0.16	2.19	0.07	19.40	54.80	25.47	62.29	1.14	1.99	1.09
16	0.52	0.28	0.16	2.29	0.07	18.43	105	12.20	28.80	2.03	1.95	1.07
17	0.51	0.28	0.16	2.27	0.07	16.65	67.86	16.42	14.87	1.92	1.91	1.05
18	0.50	0.27	0.15	2.19	0.07	35.08	14.68	19.49	29.14	25.09	1.87	1.03
19	0.49	0.27	0.15	2.27	0.07	61.00	5.79	9.60	50.33	11.87	1.84	1.01
20	0.48	0.26	0.15	2.29	0.18	35.33	5.28	149	5.14	12.62	1.80	0.99
21	0.47	0.25	0.15	2.29	0.36	36.60	11.97	49.41	1.47	23.39	1.77	0.97
22	0.46	0.25	0.14	2.35	0.13	63.91	28.56	65.11	0.00	16.82	1.73	0.95
23	0.46	0.24	0.14	2.26	0.89	16.78	63.16	49.47	41.65	10.25	1.70	0.93
24	0.45	0.24	0.14	2.22	1.34	10.82	69.08	22.88	2.17	2.54	1.66	0.91
25	0.44	0.24	0.13	2.17	1.39	7.41	71.51	41.10	8.93	1.91	1.63	0.89
26	0.43	0.23	0.13	2.13	2.15	7.21	67.88	12.06	6.83	1.83	1.60	0.88
27	0.42	0.23	0.13	2.09	1.75	9.89	110	28.89	6.06	1.80	1.57	0.86
28	0.41	0.22	0.13	2.05	2.02	4.44	85.03	16.07	15.33	1.76	1.53	0.84
29	0.40		0.12	2.01	0.71	9.86	10.32	19.35	1.65	1.73	1.50	0.83
30	0.40		0.12	1.97	0.18	7.42	6.89	11.15	4.23	2.80	1.47	0.81
31	0.39		0.12		0.00		4.99	12.00		2.69		0.79
Total	16.49	8.23	5.07	49.96	19.72	439	1239	846	769	346	60.00	33.72

Annual runoff = 3832.98

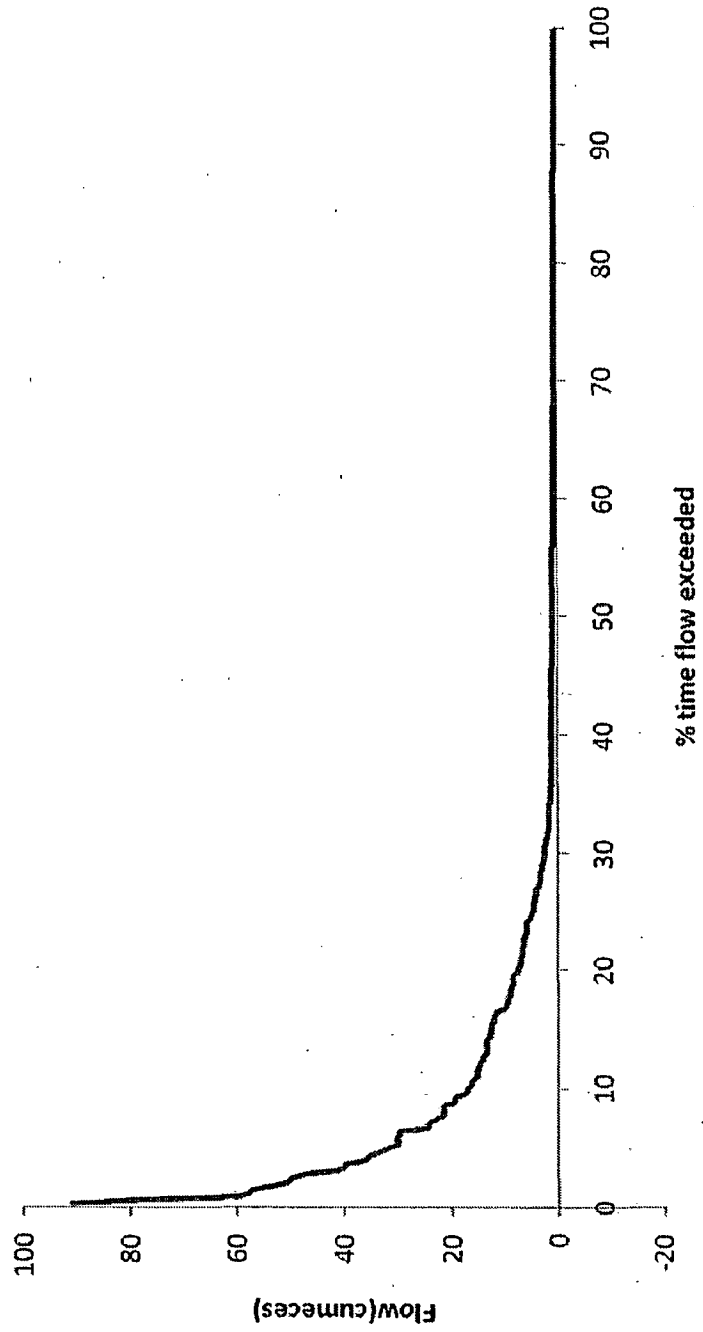
Avg. monthly runoff = 319.41

Appendix D

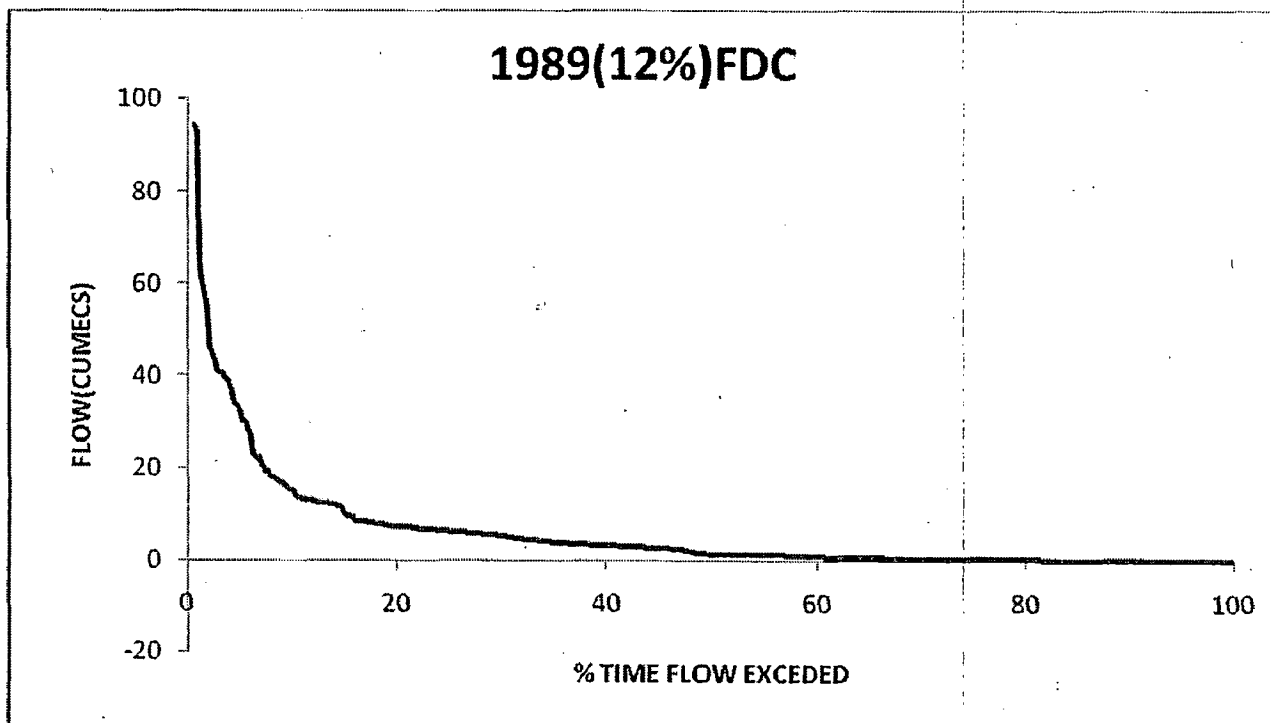
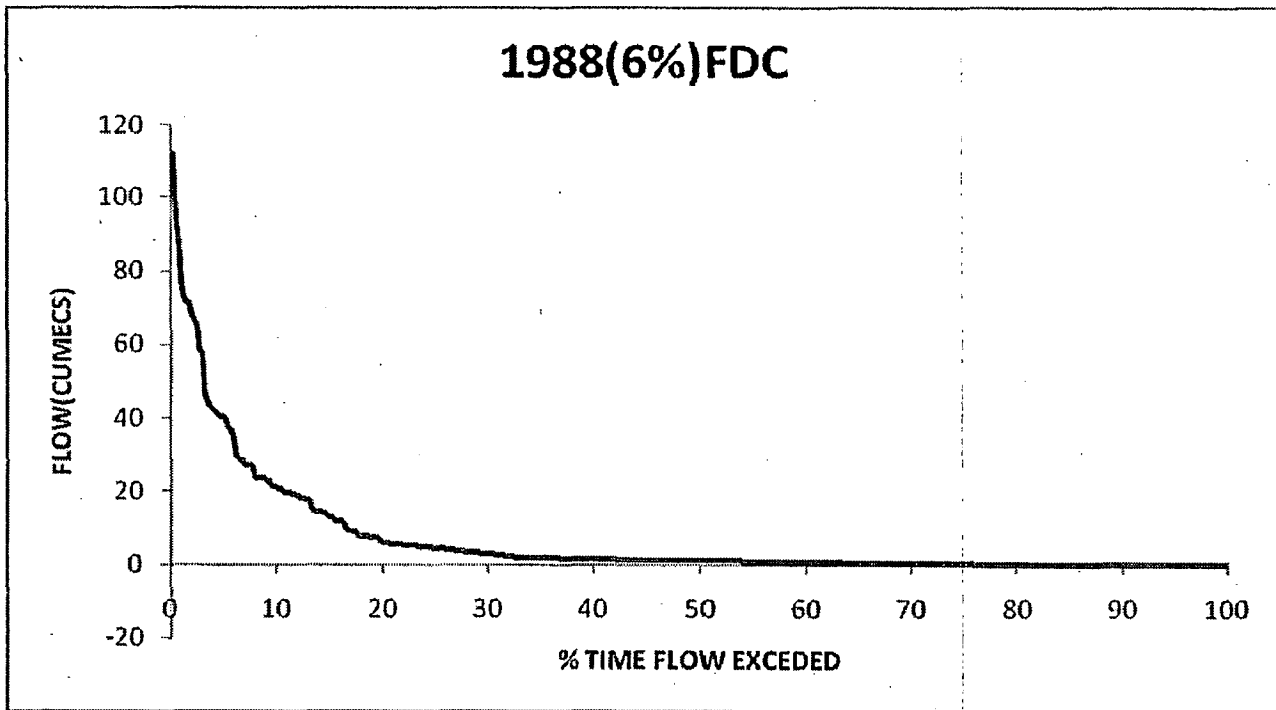
Flow(cum)	rank	% of time flow exceed	Flow(cum)	rank	% of time flow exceed	Flow(cum)	rank	% of time flow exceed	Flow(cum)	rank	% of time flow exceed	Flow(cum)	rank	% of time flow exceed
0.00	1	100.00	0.21	38	89.89	0.35	75	79.78	0.47	112	69.67	0.67	149	59.56
0.00	2	99.73	0.21	39	89.62	0.35	76	79.51	0.48	113	69.40	0.68	150	59.29
0.00	3	99.45	0.22	40	89.34	0.35	77	79.23	0.48	114	69.13	0.68	151	59.02
0.00	4	99.18	0.22	41	89.07	0.35	78	78.96	0.48	115	68.85	0.70	152	58.74
0.00	5	98.91	0.23	42	88.80	0.36	79	78.69	0.49	116	68.58	0.70	153	58.47
0.04	6	98.63	0.23	43	88.52	0.36	80	78.42	0.49	117	68.31	0.71	154	58.20
0.04	7	98.36	0.24	44	88.25	0.36	81	78.14	0.50	118	68.03	0.71	155	57.92
0.04	8	98.09	0.24	45	87.98	0.37	82	77.87	0.50	119	67.76	0.72	156	57.65
0.04	9	97.81	0.24	46	87.70	0.37	83	77.60	0.51	120	67.49	0.73	157	57.38
0.04	10	97.54	0.25	47	87.43	0.37	84	77.32	0.51	121	67.21	0.73	158	57.10
0.04	11	97.27	0.25	48	87.16	0.37	85	77.05	0.52	122	66.94	0.74	159	56.83
0.04	12	96.99	0.26	49	86.89	0.38	86	76.78	0.53	123	66.67	0.74	160	56.56
0.04	13	96.72	0.26	50	86.61	0.38	87	76.50	0.53	124	66.39	0.75	161	56.28
0.05	14	96.45	0.27	51	86.34	0.38	88	76.23	0.54	125	66.12	0.76	162	56.01
0.15	15	96.17	0.27	52	86.07	0.39	89	75.96	0.54	126	65.85	0.77	163	55.74
0.15	16	95.90	0.27	53	85.79	0.39	90	75.68	0.55	127	65.57	0.77	164	55.46
0.15	17	95.63	0.28	54	85.52	0.39	91	75.41	0.55	128	65.30	0.78	165	55.19
0.16	18	95.36	0.28	55	85.25	0.40	92	75.14	0.56	129	65.03	0.79	166	54.92
0.16	19	95.08	0.29	56	84.97	0.40	93	74.86	0.56	130	64.75	0.80	167	54.64
0.16	20	94.81	0.30	57	84.70	0.40	94	74.59	0.57	131	64.48	0.80	168	54.37
0.17	21	94.54	0.30	58	84.43	0.41	95	74.32	0.57	132	64.21	0.80	169	54.10
0.17	22	94.26	0.30	59	84.15	0.41	96	74.04	0.58	133	63.93	0.82	170	53.83
0.17	23	93.99	0.31	60	83.88	0.41	97	73.77	0.58	134	63.66	0.82	171	53.55
0.17	24	93.72	0.31	61	83.61	0.41	98	73.50	0.59	135	63.39	0.83	172	53.28
0.17	25	93.44	0.31	62	83.33	0.41	99	73.22	0.59	136	63.11	0.83	173	53.01
0.18	26	93.17	0.31	63	83.06	0.42	100	72.95	0.60	137	62.84	0.85	174	52.73
0.18	27	92.90	0.32	64	82.79	0.42	101	72.68	0.61	138	62.57	0.85	175	52.46
0.18	28	92.62	0.32	65	82.51	0.42	102	72.40	0.62	139	62.30	0.87	176	52.19
0.18	29	92.35	0.32	66	82.24	0.43	103	72.13	0.62	140	62.02	0.87	177	51.91
0.19	30	92.08	0.32	67	81.97	0.43	104	71.86	0.63	141	61.75	0.88	178	51.64
0.19	31	91.80	0.33	68	81.69	0.44	105	71.58	0.63	142	61.48	0.89	179	51.37
0.19	32	91.53	0.33	69	81.42	0.44	106	71.31	0.64	143	61.20	0.90	180	51.09
0.20	33	91.26	0.33	70	81.15	0.45	107	71.04	0.64	144	60.93	0.90	181	50.82
0.20	34	90.98	0.34	71	80.87	0.45	108	70.77	0.65	145	60.66	0.92	182	50.55
0.20	35	90.71	0.34	72	80.60	0.46	109	70.49	0.66	146	60.38	0.92	183	50.27
0.20	36	90.44	0.34	73	80.33	0.46	110	70.22	0.66	147	60.11	0.92	184	50.00
0.21	37	90.16	0.34	74	80.05	0.47	111	69.95	0.67	148	59.84	0.93	185	49.73

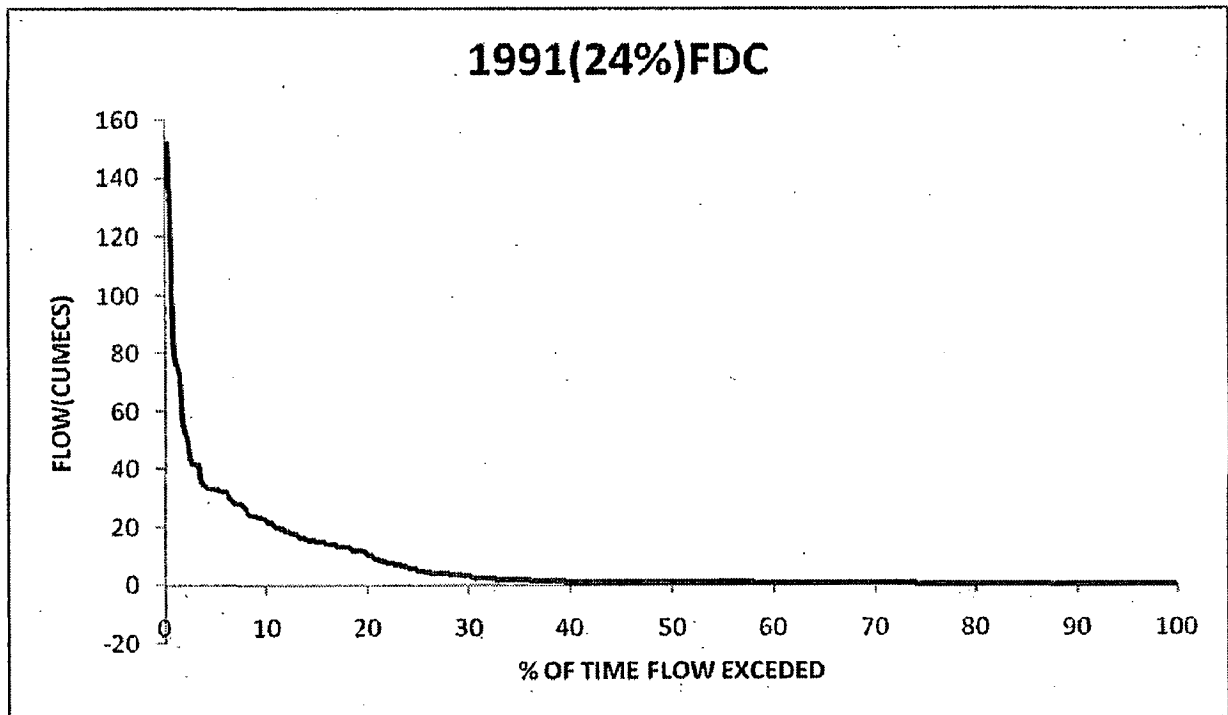
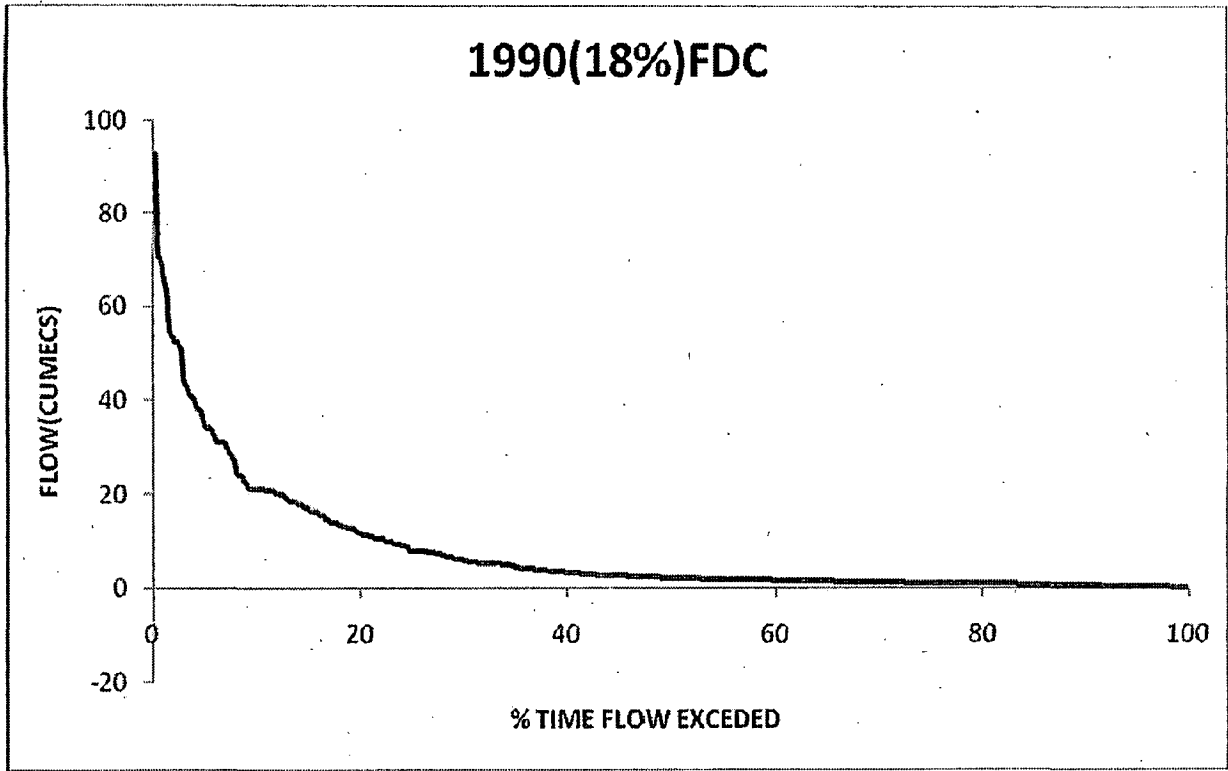
Flow(cum)	rank	% of time flow exceed	Flow(cum)	rank	% of time flow exceed	Flow(cum)	rank	% of time flow exceed	Flow(cum)	rank	% of time flow exceed	Flow(cum)	rank	% of time flow exceed
0.94	186	49.45	1.15	223	39.34	2.59	260	29.23	8.36	297	19.13	19.46	334	9.02
0.94	187	49.18	1.16	224	39.07	2.94	261	28.96	8.48	298	18.85	19.64	335	8.74
0.94	188	48.91	1.16	225	38.80	2.99	262	28.69	8.76	299	18.58	21.32	336	8.47
0.96	189	48.63	1.17	226	38.52	3.11	263	28.42	8.83	300	18.31	21.37	337	8.20
0.96	190	48.36	1.17	227	38.25	3.13	264	28.14	9.05	301	18.03	21.61	338	7.92
0.96	191	48.09	1.19	228	37.98	3.21	265	27.87	9.10	302	17.76	21.76	339	7.65
0.98	192	47.81	1.19	229	37.70	3.24	266	27.60	9.44	303	17.49	22.90	340	7.38
0.98	193	47.54	1.19	230	37.43	3.50	267	27.32	9.48	304	17.21	23.89	341	7.10
1.00	194	47.27	1.19	231	37.16	3.57	268	27.05	9.76	305	16.94	24.41	342	6.83
1.00	195	46.99	1.19	232	36.89	4.03	269	26.78	10.22	306	16.67	25.03	343	6.56
1.00	196	46.72	1.20	233	36.61	4.08	270	26.50	11.62	307	16.39	29.40	344	6.28
1.00	197	46.45	1.20	234	36.34	4.29	271	26.23	11.82	308	16.12	29.55	345	6.01
1.02	198	46.17	1.22	235	36.07	4.32	272	25.96	11.95	309	15.85	29.92	346	5.74
1.02	199	45.90	1.24	236	35.79	4.52	273	25.68	12.05	310	15.57	29.98	347	5.46
1.04	200	45.63	1.29	237	35.52	4.55	274	25.41	12.59	311	15.30	30.11	348	5.19
1.04	201	45.36	1.32	238	35.25	4.56	275	25.14	12.68	312	15.03	31.53	349	4.92
1.04	202	45.08	1.39	239	34.97	4.69	276	24.86	12.71	313	14.75	33.02	350	4.64
1.06	203	44.81	1.50	240	34.70	5.09	277	24.59	12.85	314	14.48	34.71	351	4.37
1.06	204	44.54	1.52	241	34.43	5.19	278	24.32	12.93	315	14.21	35.50	352	4.10
1.06	205	44.26	1.56	242	34.15	5.74	279	24.04	13.30	316	13.93	36.70	353	3.83
1.08	206	43.99	1.57	243	33.88	5.75	280	23.77	13.35	317	13.66	39.67	354	3.55
1.08	207	43.72	1.59	244	33.61	5.76	281	23.50	13.36	318	13.39	39.96	355	3.28
1.08	208	43.44	1.62	245	33.33	5.79	282	23.22	13.39	319	13.11	41.47	356	3.01
1.09	209	43.17	1.65	246	33.06	5.97	283	22.95	13.57	320	12.84	46.53	357	2.73
1.10	210	42.90	1.68	247	32.79	6.26	284	22.68	14.17	321	12.57	49.52	358	2.46
1.10	211	42.62	1.72	248	32.51	6.34	285	22.40	14.23	322	12.30	50.30	359	2.19
1.10	212	42.35	1.75	249	32.24	6.38	286	22.13	14.73	323	12.02	50.96	360	1.91
1.11	213	42.08	1.75	250	31.97	6.59	287	21.86	15.03	324	11.75	54.22	361	1.64
1.12	214	41.80	1.84	251	31.69	6.60	288	21.58	15.07	325	11.48	57.02	362	1.37
1.12	215	41.53	1.93	252	31.42	6.72	289	21.31	15.26	326	11.20	58.08	363	1.09
1.12	216	41.26	2.10	253	31.15	6.75	290	21.04	15.30	327	10.93	60.10	364	0.82
1.12	217	40.98	2.32	254	30.87	6.79	291	20.77	16.04	328	10.66	76.53	365	0.55
1.14	218	40.71	2.33	255	30.60	6.96	292	20.49	16.35	329	10.38	91.02	366	0.27
1.14	219	40.44	2.36	256	30.33	7.32	293	20.22	16.57	330	10.11			
1.15	220	40.16	2.45	257	30.05	7.45	294	19.95	17.04	331	9.84			
1.15	221	39.89	2.54	258	29.78	7.68	295	19.67	17.29	332	9.56			
1.15	222	39.62	2.58	259	29.51	8.36	296	19.40	18.73	333	9.29			

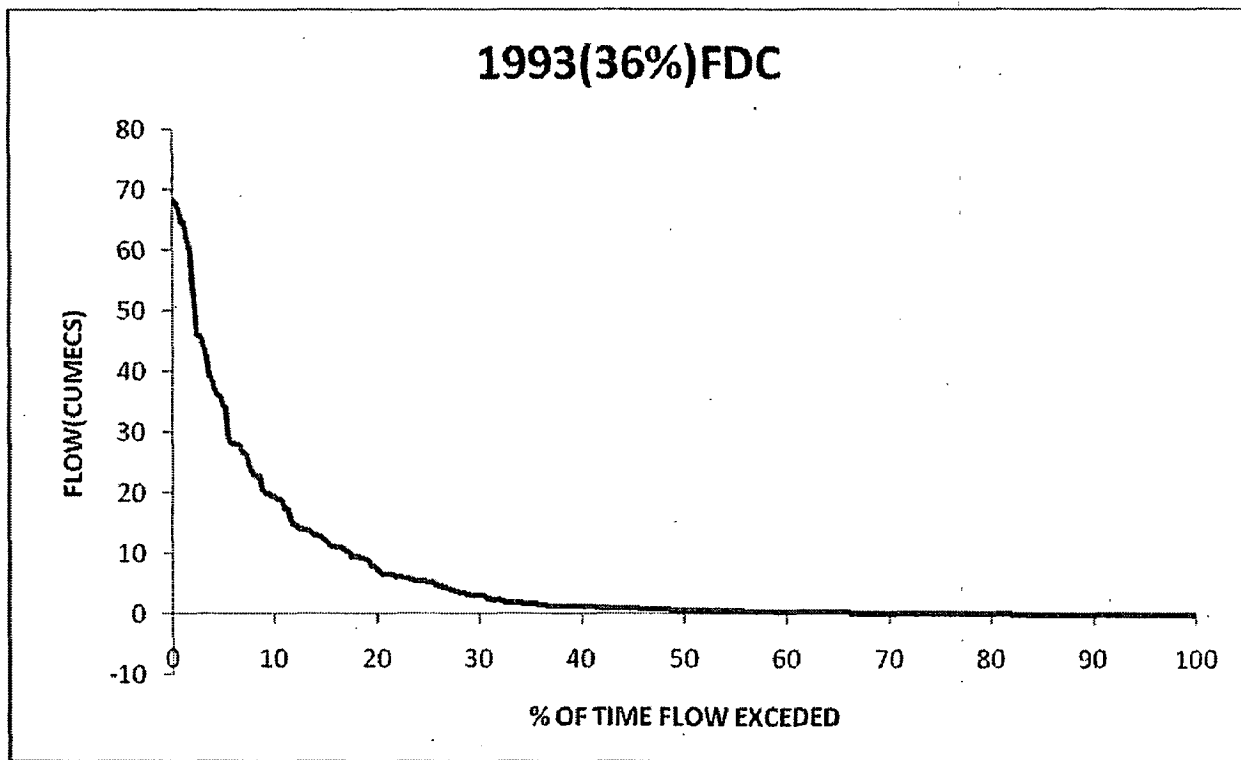
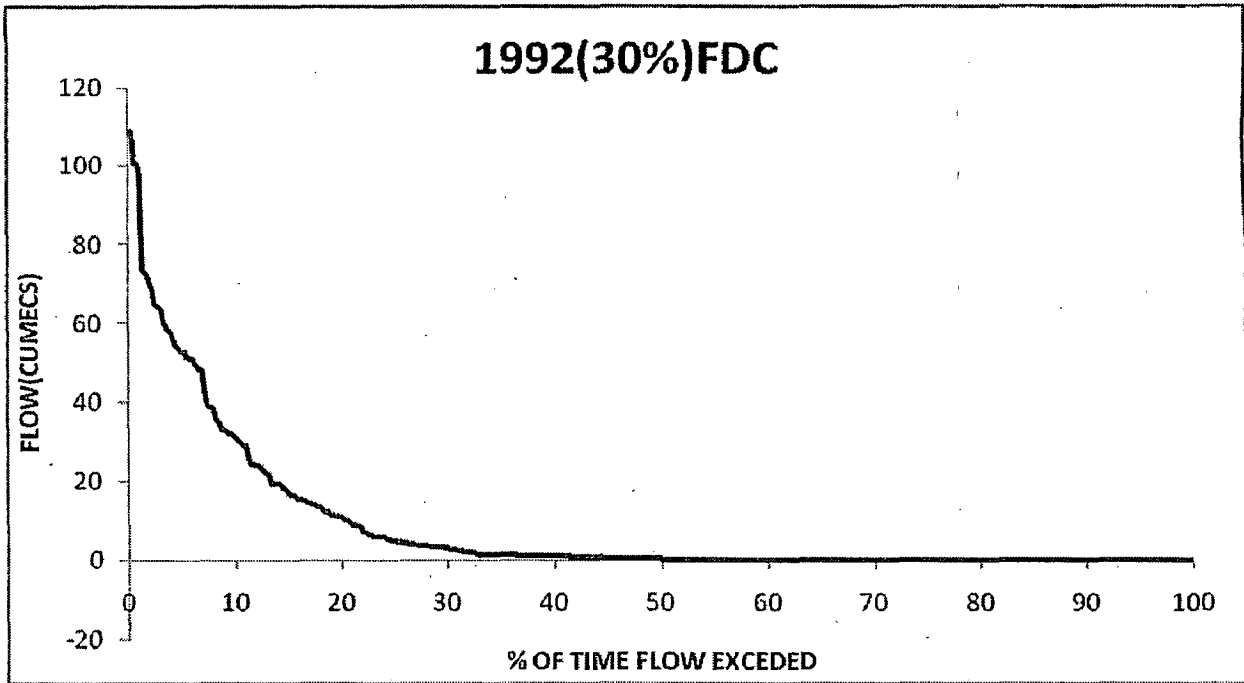
2002(88%)FDC



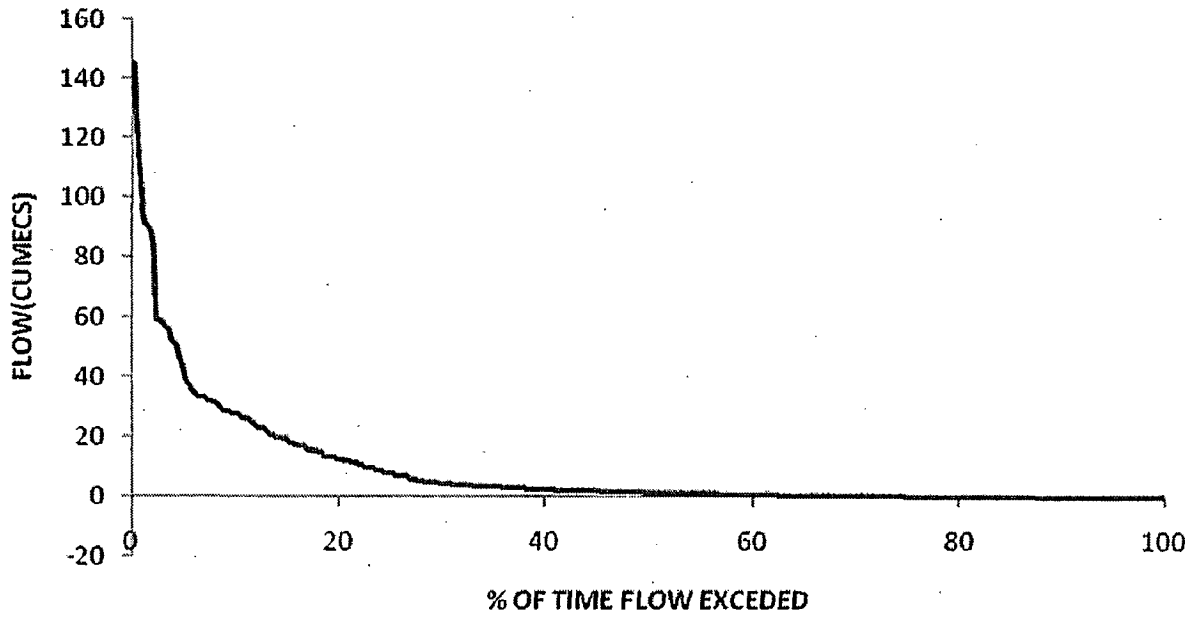
Like only for all other years arrange the data for data refer appendix A, B, C and drawn the flow duration curves given below



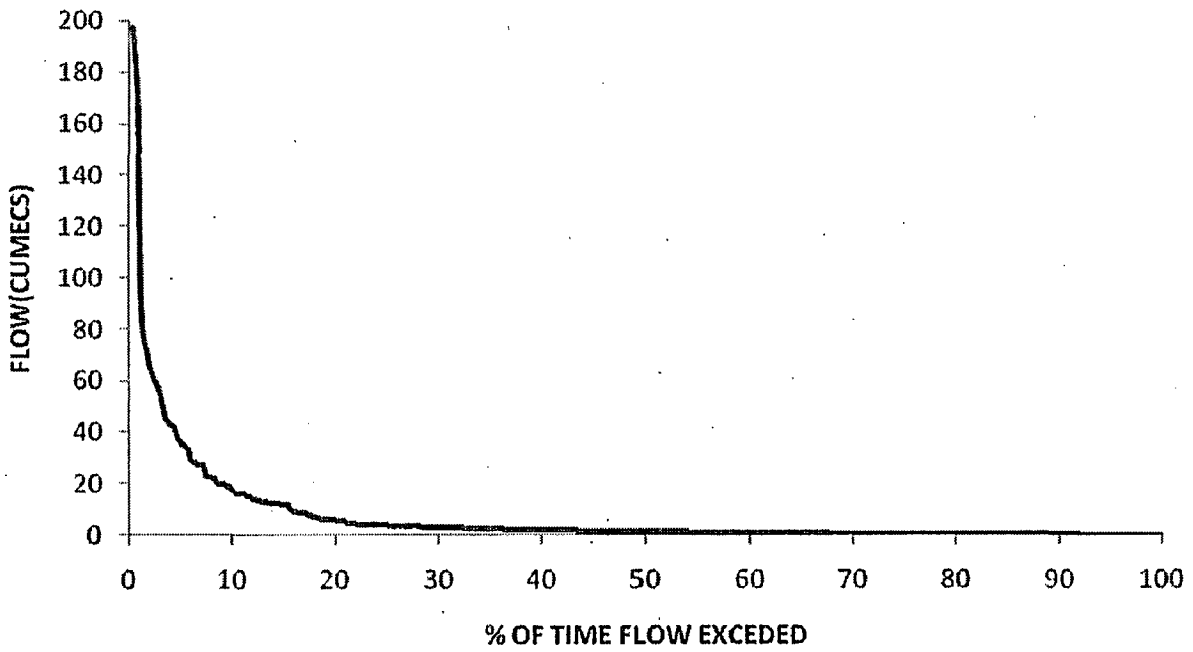




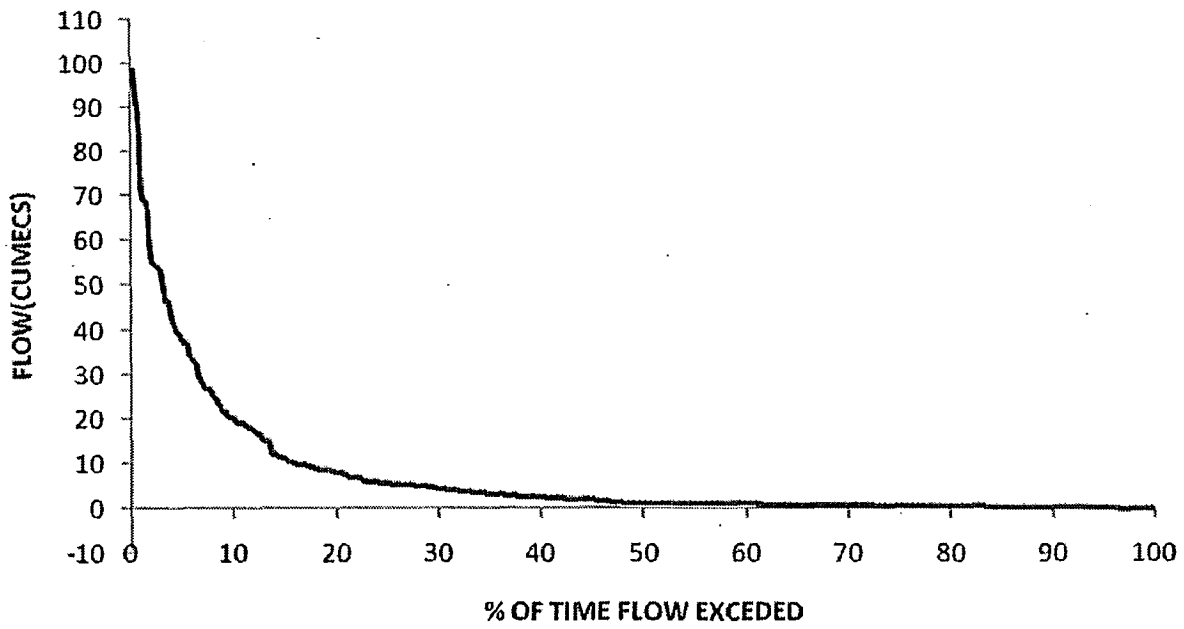
1994(42%)FDC



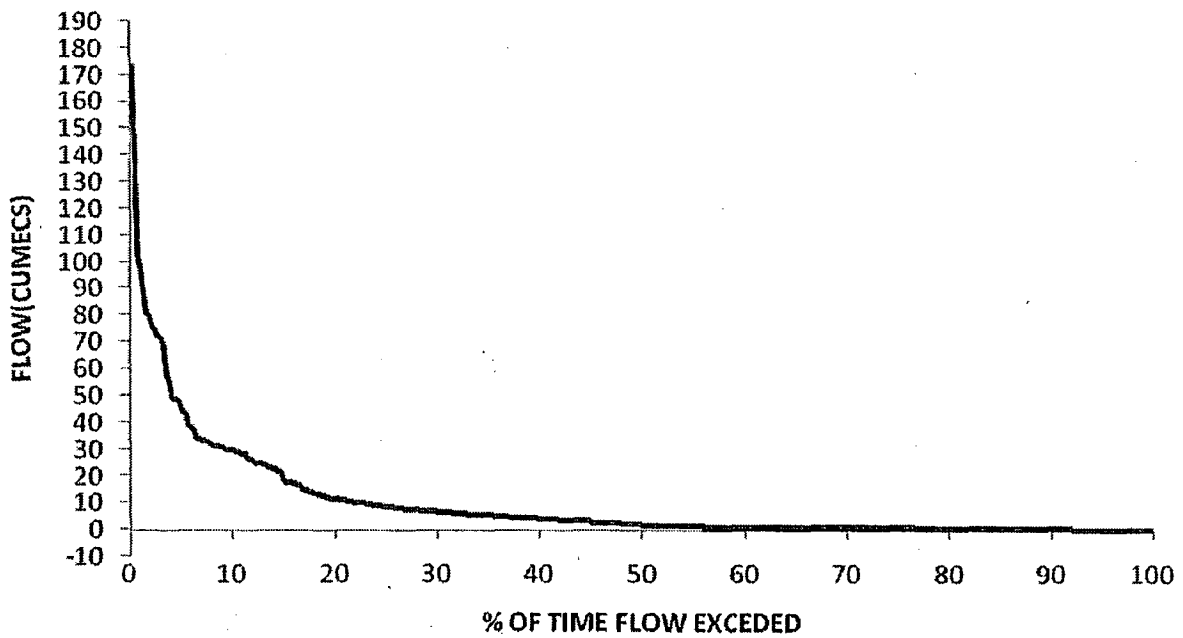
1995(42%)FDC



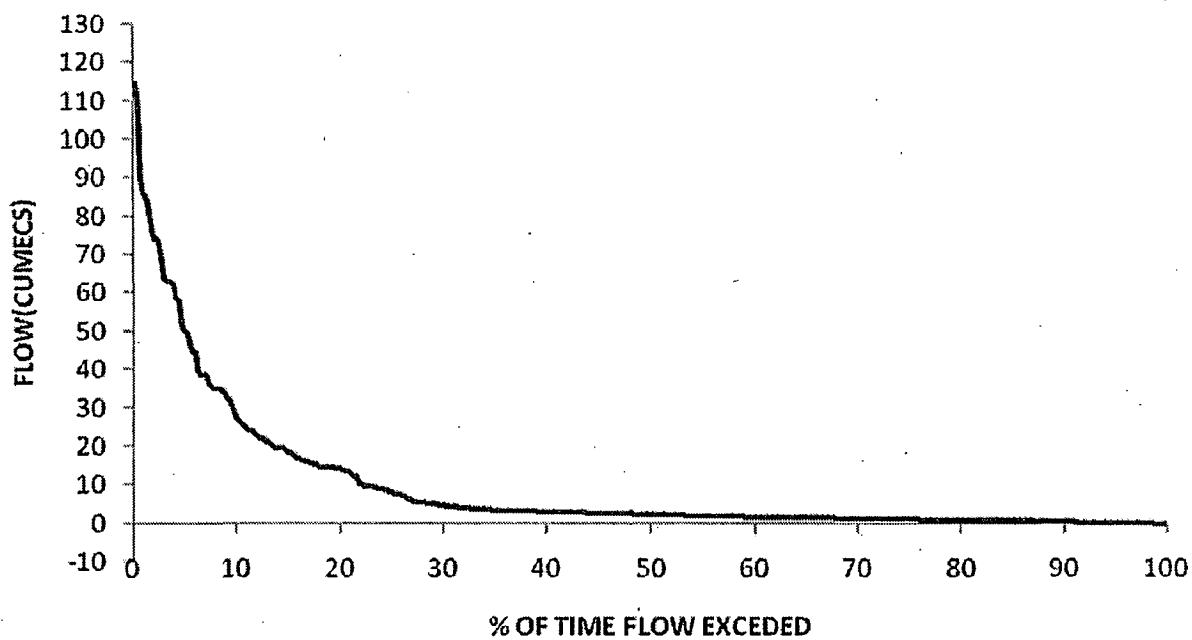
1996(53%)FDC



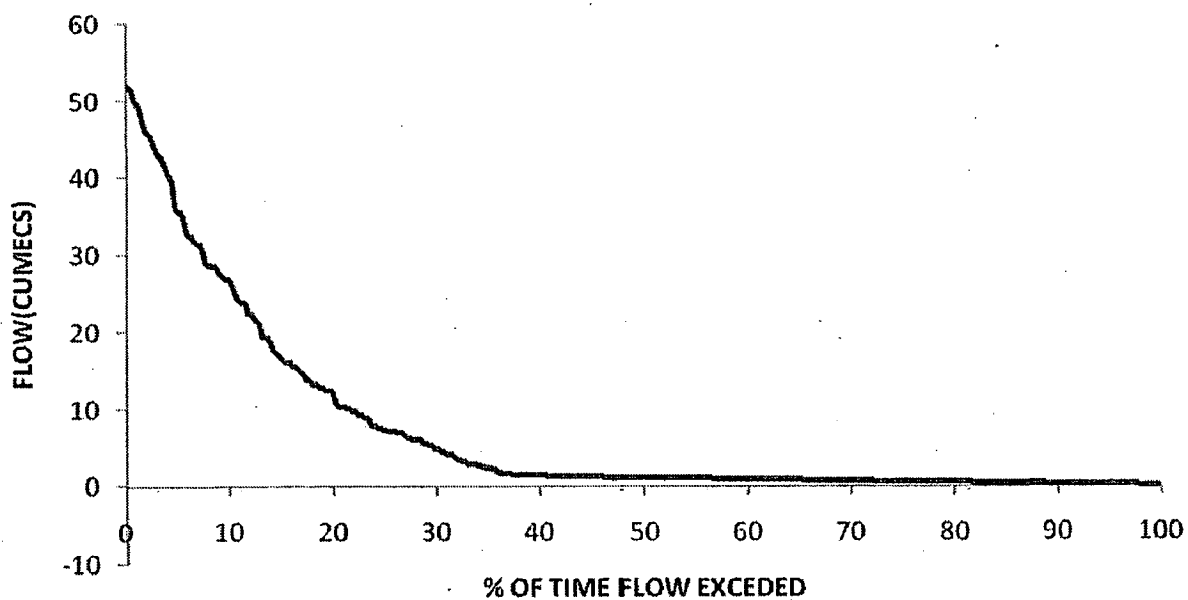
1997(59%)FDC

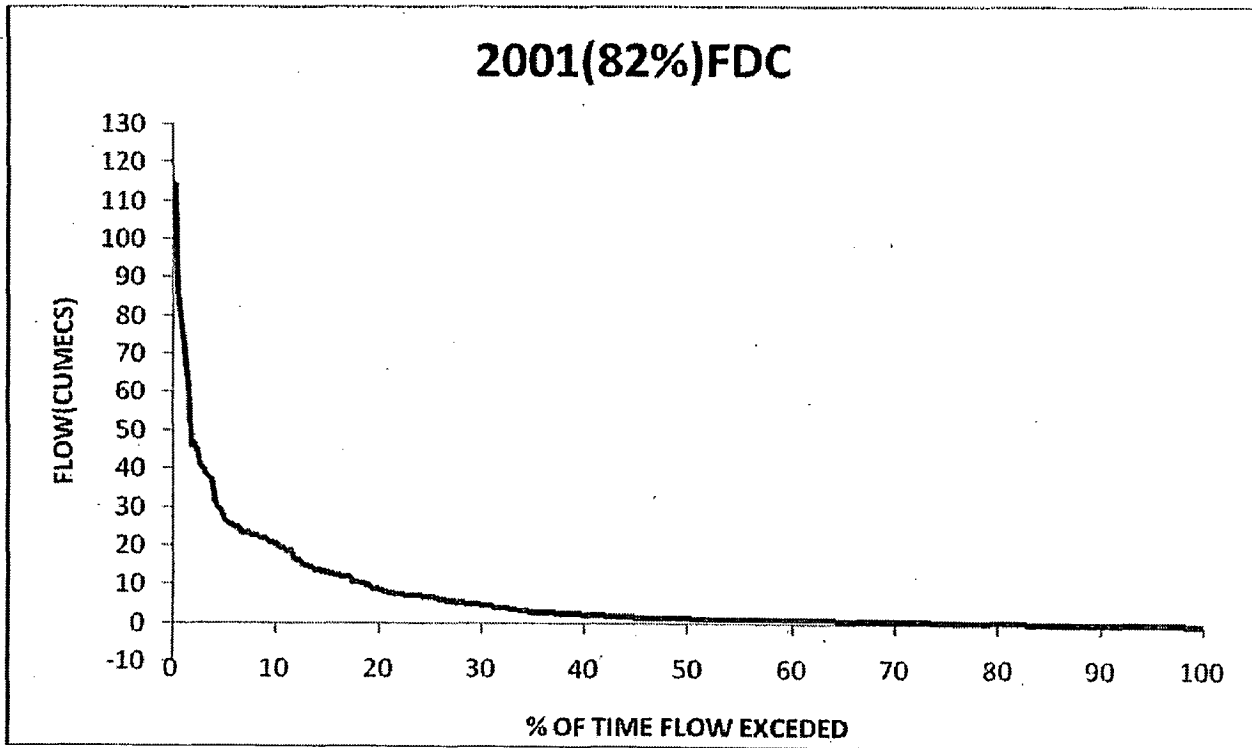
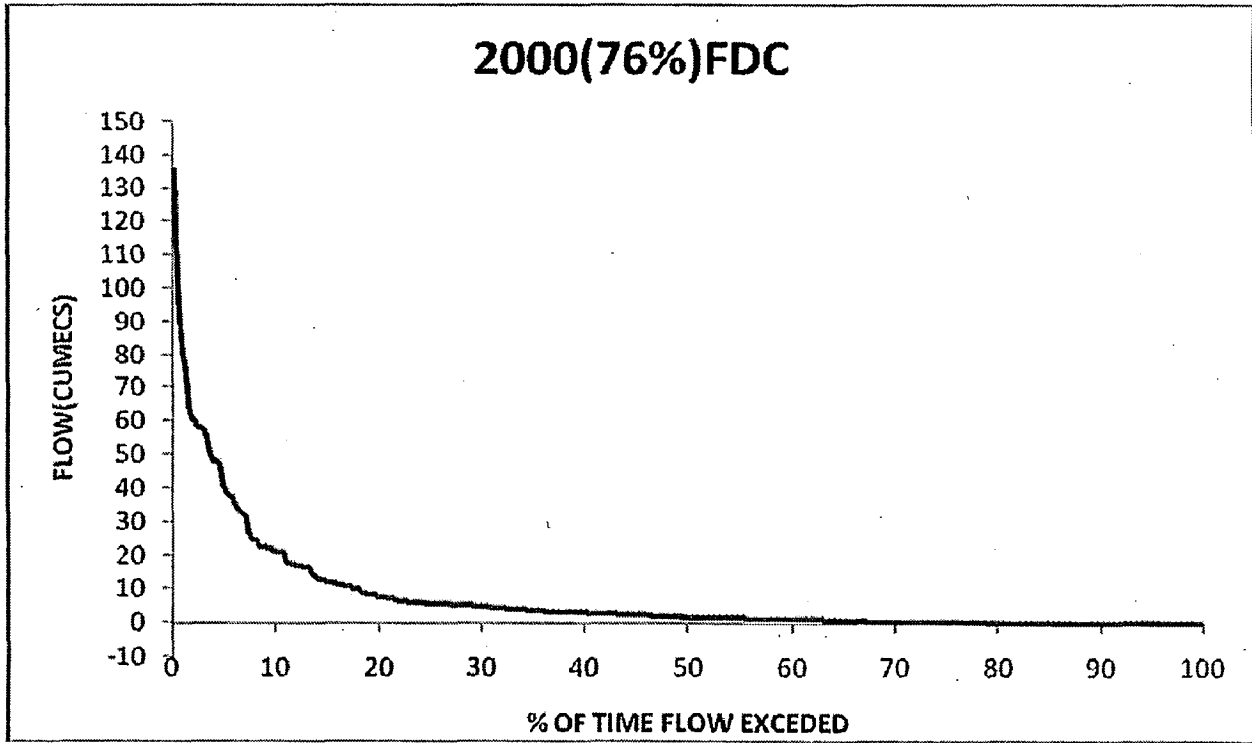


1998(65%)FDC

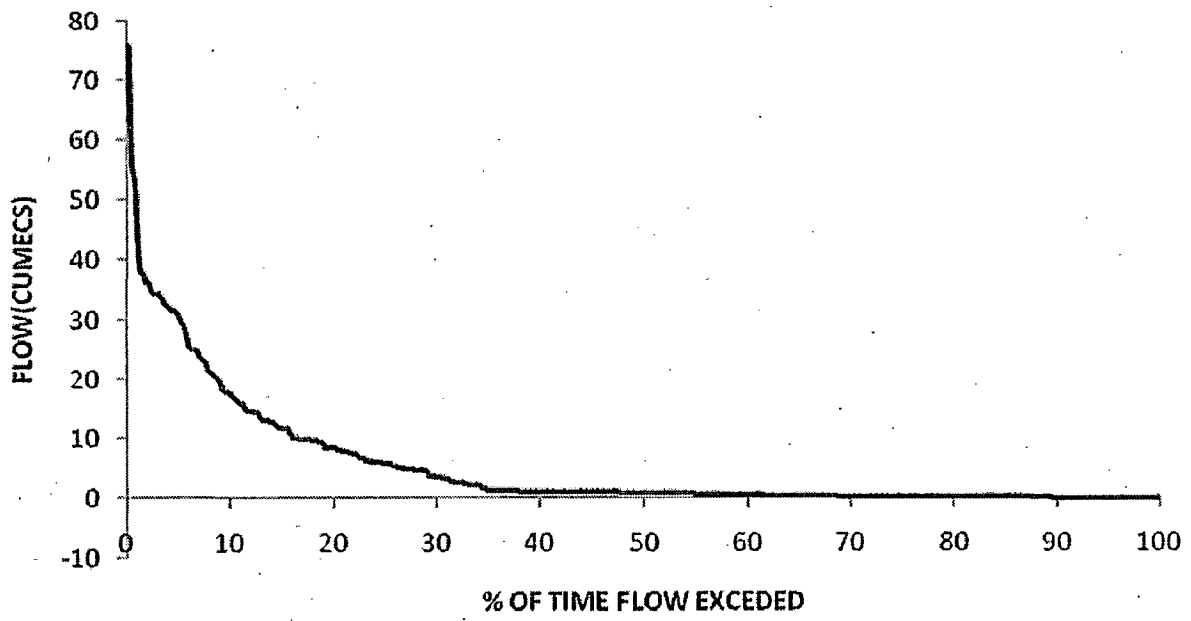


1999(71%)FDC





2003(94%)FDC



Appendix E

	Year	1988	1989	1990	1991
% excedence time	Energy value (MW)				
	secondary energy	1482.361	1299.33	4829.287	1789.151
35	Total energy	7050.283	7284.387	9801.313	7244.801
30	Total energy	9656.224	11588.95	14642.39	10225.03
25	Total energy	14944.45	17651.32	21708.73	15257.18
20	Total energy	19777.53	24502.51	29813.94	20855.99
19	Total energy	21512.56	26271.96	31239.58	22960.38
18	Total energy	22423.86	27124.07	32555.77	24148.47
17	Total energy	23257.77	27913.86	33761.22	24527.06
16	Total energy	26268.86	30668.81	37828.32	29128.17
15	Total energy	27365.05	31053.47	38408.16	29752.89
14	Total energy	27777.55	31575.58	39566.79	30750.71
13	Total energy	27945.34	31702.13	39775.72	30951.97
12	Total energy	29449.2	32782.81	41643.75	32720.94
11	Total energy	30047.81	33195.64	42394	33415.51
10	Total energy	30336	33879.36	43937.51	34615.2
5	Total energy	40875.29	41298.93	55638.9	45756.21

	Year	1992	1993	1994	1995
% excedence time	Energy value (MW)				
	secondary energy	326.3958	718.6897	1532.503	2670.358
35	Total energy	5267.696	5803.402	7313.064	8386.885
30	Total energy	8229.196	8936.389	11326.36	11973.63
25	Total energy	12653	13855.79	17508.8	16854.04
20	Total energy	18352.92	19076.86	23458.96	21331.29
19	Total energy	20639.9	21327.75	26484.01	23331.28
18	Total energy	21779.48	22355.34	27791.09	24242.46
17	Total energy	22834.06	23278.87	29000.27	25073.71
16	Total energy	26553.58	26371.34	33251.74	28009.09
15	Total energy	26837.33	26725.8	33931.15	28525.33
14	Total energy	28186.44	27558.19	34815.12	29148.16
13	Total energy	28394.15	27770.13	35022.37	29299.58
12	Total energy	30285.01	29070.1	37006.02	30607.94
11	Total energy	30989.43	29601.52	37829.55	31139.35
10	Total energy	31193.08	30626.38	39022.05	32269.11
5	Total energy	47559.89	39570.57	54526.42	40800.75

	Year	1996	1997	1998	1999
% excedence time	Energy value (MW)				
	secondary energy	2667.126	3259.277	4731.072	2550.99
35	Total energy	8222.46	8954.226	9839.146	8085.383
30	Total energy	12248.16	13363.3	14876.77	11445.56
25	Total energy	18240.1	20828.95	21354.31	16831.55
20	Total energy	24554.19	28844.37	27915.96	23681.36
19	Total energy	26199.34	31260.86	30270.02	25870.3
18	Total energy	27207.93	32597.31	31570.13	27119.02
17	Total energy	28103.56	33802.78	32754.55	28257.65
16	Total energy	31045.01	37821.4	36874.02	32131.8
15	Total energy	30942.06	38295.22	37045.59	32922.81
14	Total energy	32101	39519.66	38850.71	33850.48
13	Total energy	32256.12	39728.59	39084.64	34056.26
12	Total energy	33703.81	41678.54	41222.56	35926.73
11	Total energy	34301.62	42398.26	42034.45	36683.78
10	Total energy	35789.27	44173.91	43588.84	37130.21
5	Total energy	45298.44	59916.74	57556.4	51830.59

	Year	2000	2001	2002	2003
% excedence time	Energy value (MW)				
	secondary energy	2464.249	2976.431	1796.956	1261.608
35	Total energy	7928.938	9045.158	7141.64	6595.83
30	Total energy	12538.17	12624.94	9925.653	9891.441
25	Total energy	18657.54	17826.72	14687.22	14917.35
20	Total energy	24835.42	24930.54	20052.37	20885.03
19	Total energy	26416.96	27072.87	21975.84	23108.82
18	Total energy	27397.2	28155.48	22958.22	24154.38
17	Total energy	28343.65	29133.16	23835.72	25116.87
16	Total energy	31458.09	32530.04	26845.85	28212.7
15	Total energy	32547.79	33302.95	27382.95	28453.8
14	Total energy	33190.01	33876.66	28113.72	29083.27
13	Total energy	33351.46	34047.61	28263.16	29232.06
12	Total energy	34820.75	35543.19	29569.82	30580.44
11	Total energy	35430.51	36129.02	30080.98	31093.11
10	Total energy	36799.82	37357.41	31156.36	32004.21
5	Total energy	47551.23	46627.85	39764.92	41018.46

As the selling cost is assumed as 2.9/KWhr and 2% increase in cost up to 10 years

benefits values are as follows

% exceed ance time	Avg energy production (MWhr)	Total benefit (Rs.)	Annual benefit(Rs.)
35	7747.788289	364258746.2	22766171.64
30	11468.26173	539175114.8	33698444.67
25	17111.0657	804468979.3	50279311.21
20	23304.32718	1095642354	68477647.13
19	25371.40052	1162247429	72640464.33
18	26473.76361	1197767687	74860480.41
17	27437.17284	1228810583	76800661.44
16	30937.42719	1341595505	83849719.05
15	31468.2735	1479466581	92466661.31
14	32372.75277	1521990263	95124391.41
13	32555.08084	1530562334	95660145.88
12	34163.22443	1606168474	100385529.6
11	34797.78329	1636001971	102250123.2
10	35867.41978	1686290444	105393152.8
5	47224.47562	2220237265	138764829

According to the assumptions given the generation cost given below (values are in Rs.):

% excedence time	capital cost	phasing cost	total capital cost	interest	Operation & maintainance	depriciation	working expenses	taxes	Annual generation cost	Total generation cost
35	72256859	36128430	82011535	7381038	82012	410058	213230	41006	8127343	130037490
30	127364510	63682255	144558719	13010285	144559	722794	375853	72279	14325769	229212304
25	237254322	118627161	269283656	24235529	269284	1346418	700138	134642	26686010	426976165
20	387389846	193694923	439687475	39571873	439687	2198437	1143187	219844	43573029	697168460
19	437767229	218883614	496865805	44717922	496866	2484329	1291851	248433	49239401	787830420
18	470738858	235369429	534288604	48085974	534289	2671443	1389150	267144	52948001	847168010
17	501949927	250974964	569713167	51274185	569713	2848566	1481254	284857	56458575	903337198
16	617527033	308763517	700893183	63080386	700893	3504466	1822322	350447	69458514	1111336231
15	659095395	329547698	748073274	67326595	748073	3740366	1944991	374037	74134061	1186144983
14	692119561	346059780	785555701	70700013	785556	3927779	2042445	392778	77848570	1245577120
13	699374356	349687178	793789894	71441090	793790	3968949	2063854	396895	78664579	1258633256
12	767080820	383540410	870636731	78357306	870637	4353184	2263655	435318	86280100	1380481600
11	795660406	397830203	903074561	81276710	903075	4515373	2347994	451537	89494689	1431915023
10	861550807	430775404	977860166	88007415	977860	4889301	2542436	488930	96905942	1550495080
5	1639223481	819611740	1860518651	167446679	1860519	9302593	4837348	930259	184377398	2950038373