

ASSESSMENT VARIABILITY OF ANNUAL DAILY MAXIMUM RAINFALL OF  
TERENGGANU, MALAYSIA

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ASSESSMENT VARIABILITY OF ANNUAL DAILY MAXIMUM RAINFALL OF  
TERENGGANU, MALAYSIA

NUR AZIRA AYUNI BT AB AZIZ

Thesis submitted in fulfilment of the requirements  
for the award of the degree of  
Bachelor of Civil Engineering

Faculty of Mechanical Engineering  
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**DEDICATION**

*Praise to be Allah, the Lord of the World*

*To my beloved mother and father*

*To my dear sibling*

*To all my friends*

*To my supervisor who I greatly indebted,*

*Dr Mohamad Idris Bin Ali*

*For their never ending care, support and Doa'*

*Thanks you for everything*

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## ABSTRACT

Recently, major cities in Terengganu have been affected by problems related to flooding incident. Meanwhile, extreme rainfall during northeast monsoon caused overflowing of Terengganu River and flooding, which cause a lot of destruction of house and property. The main objective of this study is to assess the variability of annual daily maximum rainfall. Tropical Rainfall Measuring Mission (TRMM) satellite-based rainfalls from public domain were used in this study. The daily satellite-based rainfall data for each major cities in Terengganu were retrieved using Geographical Information System (GIS) technique. Gumbel distribution functions were applied to estimate expected return period and probability of extreme rainfall event. For annual daily maximum, the maximum depth at Kemaman, Dungun, Marang, Hulu Terengganu, Kuala Terengganu, Setiu and Besut are 363.96mm, 477.54mm, 332.45mm, 303.68mm, 347.85, 547.00mm and 398.44mm, respectively. For annual monthly maximum, the maximum depth at Kemaman, Dungun, Marang, Hulu Terengganu, Kuala Terengganu, Setiu and Besut are, 926.89mm, 826.65mm, 969.77mm, 982.86mm, 1005.00mm, 1079.45mm and 1216.51mm, respectively. Meanwhile, for annual maximum rainfall, the maximum depth at Kemaman, Dungun, Marang, Hulu Terengganu, Kuala Terengganu, Setiu and Besut are 3767.97mm, 4642.43mm, 7065.96mm, 6733.18mm, 6342.88mm, 4707.01mm and 4187.03mm. From Gumble distribution, estimate extreme daily rainfall, probability and return period for 25 years in Kemaman, Dungun, Hulu Terengganu, Marang, Kuala Terengganu, Setiu and Besut are 546.52mm, 556.13mm, 2666mm, 475.4mm, 496.27mm, 551.10mm and 551.10mm. Meanwhile, the return period for 50 years in Kemaman, Dungun, Hulu Terengganu, Marang, Kuala Terengganu, Setiu and Besut are 632.93mm, 623.27mm, 5187.00mm, 545.93mm, 571.61mm, 635.28mm and 635.28mm. Lastly, the return period for 100 years in Kemaman, Dungun, Hulu Terengganu, Marang, Kuala Terengganu, Setiu and Besut are 179.33mm, 730.41mm, 10230.00mm, 616.46mm, 626.95mm, 719.45mm and 719.45mm. Based on the results acquired, every town has a daily estimate extreme rainfall; probability and return period are different. These results may help planning future development.



## ABSTRAK

Baru-baru ini, bandar-bandar utama di Terengganu telah dipengaruhi oleh masalah yang berkaitan dengan kejadian banjir. Sementara itu, hujan yang melampau semasa monsun timur laut disebabkan limpahan Sungai Terengganu dan banjir, yang menyebabkan banyak kemusnahan rumah dan harta benda. Objektif utama kajian ini adalah untuk menilai kepelbagaian hujan maksimum harian tahunan. Mengukur Hujan Misi (TRMM) hujan berasaskan satelit tropika daripada domain awam telah digunakan dalam kajian ini. Harian data hujan berasaskan satelit untuk setiap bandar utama di Terengganu telah diambil menggunakan teknik Sistem Maklumat Geografi (GIS). Fungsi taburan Gumbel telah digunakan untuk menganggarkan tempoh pulangan dijangka dan kebarangkalian peristiwa hujan yang melampau. Untuk maksimum harian tahunan, kedalaman maksimum di Kemaman, Dungun, Marang, Hulu Terengganu, Kuala Terengganu, Setiu dan Besut adalah 363.96mm, 477.54mm, 332.45mm, 303.68mm, 347.85, 547.00mm dan 398.44mm, masing-masing. Untuk maksimum bulanan tahunan, kedalaman maksimum di Kemaman, Dungun, Marang, Hulu Terengganu, Kuala Terengganu, Setiu dan Besut adalah, 926.89mm, 826.65mm, 969.77mm, 982.86mm, 1005.00mm, 1079.45mm dan 1216.51mm, masing-masing. Sementara itu, bagi hujan maksimum tahunan, kedalaman maksimum di Kemaman, Dungun, Marang, Hulu Terengganu, Kuala Terengganu, Setiu dan Besut adalah 3767.97mm, 4642.43mm, 7065.96mm, 6733.18mm, 6342.88mm, 4707.01mm dan 4187.03mm. Dari pengedaran Gumble, anggarkan hujan, kebarangkalian dan pulangan tempoh harian melampau selama 25 tahun di Kemaman, Dungun, Hulu Terengganu, Marang, Kuala Terengganu, Setiu dan Besut adalah 546.52mm, 556.13mm, 2666mm, 475.4mm, 496.27mm, 551.10mm dan 551.10mm. Sementara itu, tempoh masa selama 50 tahun di Kemaman, Dungun, Hulu Terengganu, Marang, Kuala Terengganu, Setiu dan Besut adalah 632.93mm, 623.27mm, 5187.00mm, 545.93mm, 571.61mm, 635.28mm dan 635.28mm. Akhir sekali, tempoh pulangan selama 100 tahun di Kemaman, Dungun, Hulu Terengganu, Marang, Kuala Terengganu, Setiu dan Besut adalah 179.33mm, 730.41mm, 10230.00mm, 616.46mm, 626.95mm, 719.45mm dan 719.45mm. Berdasarkan keputusan yang diperolehi, setiap bandar mempunyai hujan melampau anggaran harian; kebarangkalian dan tempoh pulangan adalah berbeza. Keputusan ini boleh membantu merancang pembangunan masa hadapan.

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**LIST OF SYMBOLS**

X	Annual daily maximum rainfall,
M	Mean of observed annual daily maximum rainfall,
$\sigma$	Standard deviation of observed annual daily maximum rainfall,
F(x)	Cumulative probability distribution
P(x)	Probability distribution,
N	Return periods of expected annual daily maximum rainfall.
$y_i$	Each score
$\bar{Y}$	The mean or average
N	The number of values
$\Sigma$	Means we sum across the values

**LIST OF ABBREVIATIONS**

TRMM	Tropical Rainfall Measuring Mission
GIS	Geographical Information System



## **CHAPTER 1**

### **INTRODUCTION**

#### **1.1 BACKGROUND OF THE STUDY**

Most probably every year some part of Terengganu will expected of damage caused by the flooding. In January 2015, Kemaman was flooded again. Floods in low-lying areas in Kemaman following the heavy rain that fell in the high tides. In addition, many roads were submerged and cause a road closed. In November 2014, Jalan Pantai Batu Rakit in Kampung Pak Tuyu has suffered severe damage and the cause of the road in the Kampung Pak Tuyu to city was disconnected.

Meanwhile, in the news stated that Terengganu hit by worst floods in three decades. In December 2014, about 80 per cent of villages in Dungun had been flooded since the first wave of floods on December 15 when Sungai Dungun overflowed due to the high tide phenomenon.

The flood phenomenon has caused much damage and loss due to the rain that often occurs is due to the high intensity of rain. Many have lost their homes and possessions. Most of the people just left homeless after floods swept away all their possessions. Damage to property was estimated to reach hundreds of millions of dollars because of not only individuals, but also government agencies in the health sector such as hospitals, police stations and health clinics as well as in the plantations have suffered a loss. Floods that have caused a lot of damage has been caused flood victims is difficult to get aid and the relevant authorities are also difficult to provide assistance to flood victims.

Even though, injury and death are minimal, victim still suffered trauma and this is according to the eyewitnesses from those who did site investigation work after floods occurs. Most of the damaged houses were left without roofs and trees were uprooted and fell on some of the houses. Figure 1.1 and 1.2 show some of the flood damaged issues that happen recently in Terengganu.



**Figure 1.1 ;** Flood in Kemaman (Januari 2015)



**Figure 1.2 :** Road damaged due to floods.(December 2014)

## **1.2 PROBLEM STATEMENT**

Recently, many infrastructure damage related to floods incident have been concerning in the community. While most infrastructure design (i.e. the main road) has taken into account the extreme rain information, there are still many roads were submerged by the flood. This may be due to climate change, which has an effect on the characteristics (i.e. depth, intensity, spatial and temporal variability) of the rainfall. Therefore, it is necessary to estimate extreme rainfall information by the latest rainfall information.

## **1.3 OBJECTIVE OF THE STUDY**

The main objective of this study was to assess the variability of annual maximum rainfall of Terengganu, Malaysia. The specific objectives are:

- (a) To obtain daily satellite base rainfall for study area.
- (b) To analysis annual maximum rainfall, annual daily maximum and annual monthly maximum rainfall data.

## **1.4 SCOPE OF THE STUDY**

In order to give a clear picture on how the study should be perform, the study has been specified into certain scope:

- (a) This study focused on rainfall of Terengganu. (Kemaman, Dungun, Marang, Hulu Terengganu, Kuala Terengganu, Setiu and Besut).
- (b) This study was conducted for period of 1998 – 2013.
- (c) Data were collected from Tropical Rainfall Measuring Mission (TRMM) satellite base rainfall from public domain.
- (d) Obtain and analyse all the data using Descriptive Statistical Analysis and Gumbel Distribution Function

## **1.5 SIGNIFICANCE OF THE STUDY**

This study may give some benefits such as:

- (a) Obtain the rainfall pattern in Terengganu and a different rainfall characteristic.
- (b) The proposed return periods of annual daily maximum rainfall of this study can be used for upgrading such as the capacities of hydraulic structures of Terengganu and also will help the engineers in addressing the hydrology forecasting, development and flood control in future.

## **1.6 THESIS STRUCTURE**

This thesis consists of five chapters. Chapter one presents an introduction of the thesis. It states the study background, problem statement, objectives of study and lastly scope of study. For chapter two, describe the study area of the research and comprises the literature review that related and suitable for these thesis. Chapter three explain the research methodology that used for planning research type of data collected and the method of data analysis to be employed. For chapter four present the result that obtained from the study area and discussed from analysis. Finally, chapter five comprises the conclusion from the overall chapter and related some recommendation for future work on research field.

## **CHAPTER 2**

### **LITERATURE REVIEW & STUDY AREA**

#### **2.1 INTRODUCTION**

Rainfall was possibly the first hydrological phenomenon to have been recorded by man as there are few simple rain gauges were found in India, China and Korea more than a thousand years ago. In 300 B.C, India used rain gauges to determine tax collections. Periods of high rainfall meant good crops and higher taxes; whereas low rainfall meant poor crops and a tax break from the government. The first recorded rainfall measurements and surface flow has been made by Perrault in the seventeenth century, who compared measures rainfall to the estimated flow of the Seine River to show that the two were related. In Malaysia, the first rainfall station was set up in Kuching, Sarawak, in 1876 while in Peninsular Malaysia, the first rainfall station was installed at Tanglin Hospital, Kuala Lumpur the following year. From this beginning, hydrology played an increasingly important role in the assessment and development of the country's water resources. (Suhaila, 2014)

#### **2.2 ACQUISITION OF PRECIPITATION DATA**

##### **2.2.1 Measurement of Precipitation Data**

Precipitation is a primary sources of fresh water. The amount, intensity and spatial distribution of precipitation are important inputs in many hydrological studies.

(Suhaila, 2014). Daily rainfall data of major cities in Terengganu (Kemaman, Dungun, Marang, Hulu Terengganu, Kuala Terengganu, Setiu and Besut) were collected from Tropical Rainfall Measuring Mission (TRMM) satellite base rainfall from public domain. The data from TRMM for each major cities in Terengganu were retrieved using Geographical Information System (GIS) technique.

### **2.2.2 Tropical Rainfall Measuring Mission (TRMM)**

The Tropical Rainfall Measuring Mission (TRMM), is the first mission dedicated to measuring tropical and subtropical rainfall through microwave and visible infrared sensors, and includes the first space borne rain radar. Tropical rainfall comprises more than two-thirds of global rainfall. It is the primary distributor of heat through the circulation of the atmosphere. Understanding rainfall and its variability is crucial to understanding and predicting global climate change. Our current knowledge of rainfall is poor, especially over the oceans. By use of a low-altitude orbit of 217 miles (350 kilometres), TRMM's complement of state-of-the-art instruments will provide more accurate measurements. These new measurements will increase our knowledge of how rainfall releases heat energy to drive atmospheric circulation.

### **2.2.3 Descriptive Statistics**

Descriptive statistical analysis for three types of data: i) annual rainfall, ii) annual daily maximum rainfall and iii) annual monthly maximum rainfall. Descriptive statistics deals with organization and summary of large scale data. It includes tables, graphs and numbers to present raw data (Ott and Longnecker, 2010). We applied descriptive statistics to rainfall data to examine its central tendency (mean, median and mode), variability (standard deviation), symmetry (skewness) and peakedness (kurtosis). (Ahammed, 2014)

## 2.2.4 Gumbel Distribution Function

Gumbel are commonly used for analysing return periods of annual daily maximum rainfall. The result of Gumbel Distribution can be used for upgrading such as the capacities of hydraulic structures. The famous statistician Emil Julius Gumbel (1941) was probably, the first person who dealt extreme values of hydrological data in organized way for conducting flood frequency analysis. Traditionally three extreme value distributions: Fréchet, Weibull and Gumbel are commonly used for analysing return periods of annual daily maximum rainfall. (Ahammed, 2014) The probability and return periods of annual daily maximum rainfall were estimated using Eqs. (1), (2) and (3) respectively:

$$F(x) = \exp\left[-\exp\left\{-\left(\frac{x-\mu}{\sigma}\right)\right\}\right] \quad (1)$$

$$P(x) = 1 - F(x) \quad (2)$$

$$N = 1/P(x) \quad (3)$$

Where,

X = annual daily maximum rainfall,

M = mean of observed annual daily maximum rainfall,

$\sigma$  = standard deviation of observed annual daily maximum rainfall,

F(x) = cumulative probability distribution,

P(x) = probability distribution,

N = return periods of expected annual daily maximum rainfall.

## 2.3 TERENGGANU

Terengganu is truly a tropical gateway. In the land where nature embraces heritage, it will truly revitalize your senses. Welcome to Terengganu and discover splendours of nature, the diversity of tradition and the fascination of heritage. There is absolutely no place like Terengganu. Terengganu is generally fairly hot and humid all year round, averaging from 28°C to 30°C in daytime and slightly cooler after sunset. Nevertheless, the sea breeze from South China Sea has somehow moderating the humidity in offshore areas while the altitude and lush forest trees and plant has cooled

the mountain and rural areas. Terengganu have seven main cities such as Kemaman, Dungun, Hulu Terengganu, Marang, Kuala Terengganu, Setiu and Besut.

Besides, Terengganu is a state in the east coast of Peninsular Malaysia that has never missed a flooding event, which occurs between October and March every year during the northeast monsoon period. The occurrence of flood at Dungun district Terengganu state was due to a combination of physical factors such as elevation and its close proximity to the sea apart from heavy rainfall experienced during monsoon period. More than 70% of Terengganu was categorized as low-lying coastal area with an altitude of less than 200 m altitude and 30% of the area was identified as vulnerable to flash flood. Heavy rainfall during the north east monsoon season between October and March resulted severe floods almost every year all over Terengganu, especially during the months of November and December. Environmental damages due to floods include the spread of diseases originating from dead rats and animals as well as contamination of floodwater from sewers, animal feedlots, etc. (Gasim, 2007)

### **2.3.1 Kemaman**

Kemaman is a district in Terengganu, on the east coast of Malaysia facing the South China Sea. Kemaman district is bordered by Dungun district to the north and the state of Pahang to the south and west. It is the southern gateway to the state of Terengganu.

### **2.3.2 Dungun**

Dungun is a coastal district of the Malaysian state of Terengganu. Kuala Dungun is the capital of the district. Dungun is made up of eleven 'mukim', or sub districts: Abang, Besol, Jengai, Jerangau, Kuala Dungun, Kuala Paka, Kumpal, Pasir Raja, Rasau, Sura, and Hulu Paka.



### **2.3.3 Hulu Terengganu**

Hulu Terengganu is a rather remote area in the state of Terengganu but became known after the Kenyir Hydroelectric project. Now its man-made lake is well-known as tourist destination.

### **2.3.4 Marang**

Marang is a district in Terengganu, Malaysia. The district seat is the town of Marang. The districts that border Marang are Kuala Terengganu and Kuala Nerus to the north, Hulu Terengganu in the west, while Dungun is in the south. The eastern part of the district is a stretch of coastline facing the South China Sea.

### **2.3.5 Kuala Terengganu**

Kuala Terengganu is the smallest in terms of area, but it has the largest population in Terengganu with a population of 406,317 in 2010. City status was awarded to Kuala Terengganu with the title 'Bandaraya Warisan Pesisir Air' (English: Coastal Heritage City) on 1 January 2008. Even though the city is not spared from modernity and development, Kuala Terengganu still retains strong Malay influences that are intermixed with other cultures from its long history as a port.

### **2.3.6 Setiu**

Setiu is one of the districts in Terengganu, Malaysia. This district is bordered by Besut to the north, Hulu Terengganu to the west, and on the south, Kuala Nerus. Setiu is divided into seven mukim or sub district. The sub districts are Caluk, Gantung, Hulu Nerus, Hulu Setiu, Merang, beach and lakes.

### **2.3.7 Besut**

Besut is the northernmost district in the Malaysian state of Terengganu. It is bordered by the state of Kelantan to the north and west and the South China Sea to the

east. It is the northern gateway to Terengganu. Kampung Raja is the district capital, though Jerteh is more developed. Another major town is the fishing port of Kuala Besut. There are other small towns and villages such as Jabi, Apal, and Tembila.



**Figure 2.1 :** Topography pattern of Terengganu

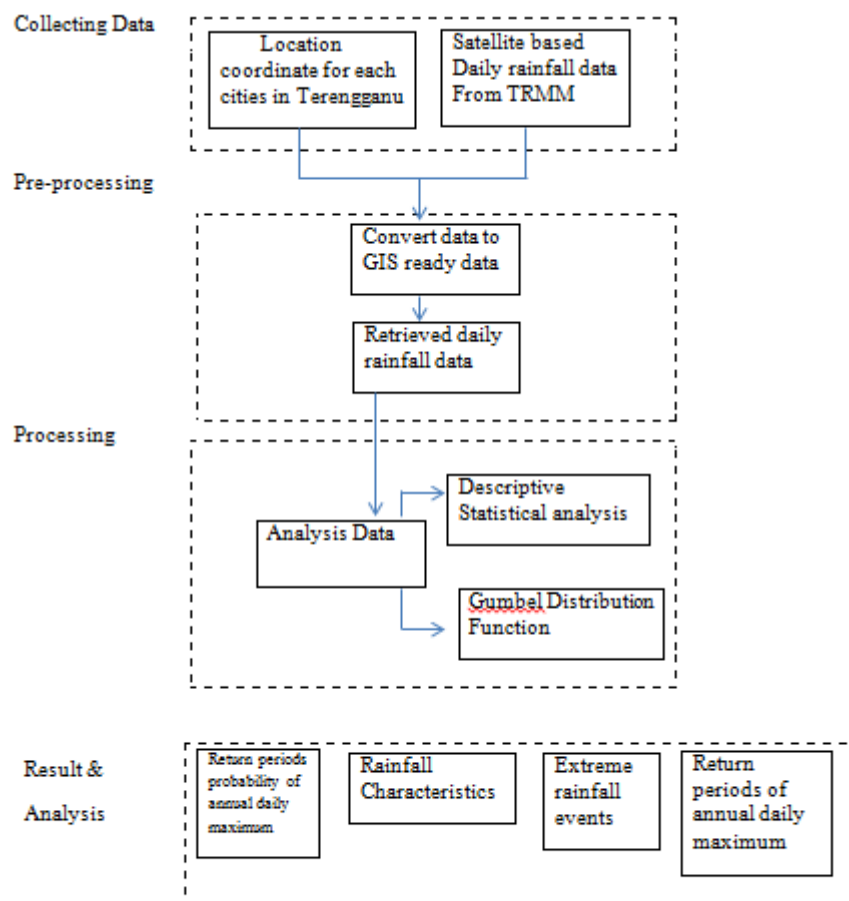
## 2.4 CONCLUSION

In previous literature review, researches already state about the rainfall characteristics, the method to use Descriptive Statistical and method to use Gumbel Distribution Function. Other than that, the elaboration of flood incident in Terengganu has been discussed in this chapter.

## CHAPTER 3

### METHODOLOGY

#### 3.1 PROJECT METHODOLOGY



**Figure 3.1 :** Flow Chart of project methodology

## **3.2 HYDRO CLIMATOLOGY**

The term weather refers to the condition of the atmosphere at any particular time and place. Weather is always changing. The climate of a particular region is the composite of weather characteristics over many years. Climate reflects weather variations, including extremes as well as averages. Elements of weather and climate include precipitation, wind, temperature, humidity, air pressure and clouds. (Suhaila, 2014). The factors that produce weather and climate in any given location include:

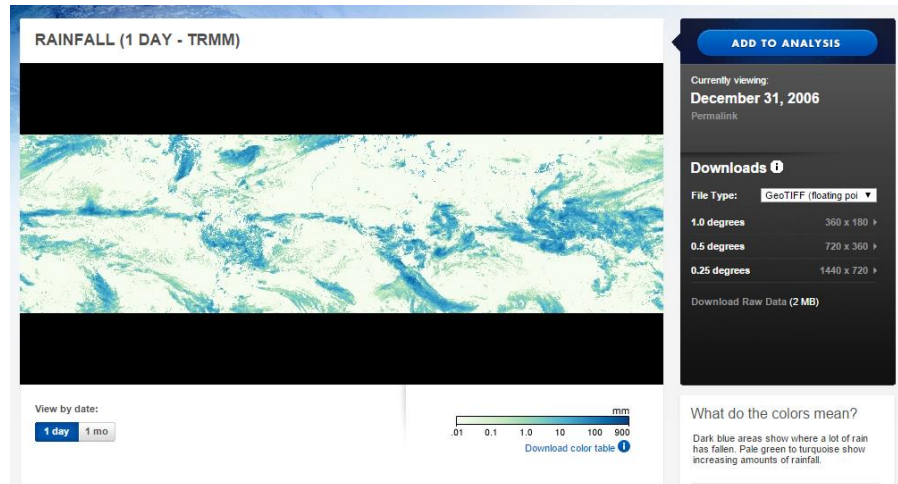
- (a) Altitude
- (b) Prevailing winds
- (c) Ocean currents
- (d) Mountain barriers
- (e) Distribution of land and water bodies
- (f) Region of high and low atmospheric pressure

## **3.3 MEASUREMENT OF RAINFALL**

### **3.3.1 Tropical Rainfall Measuring Mission (TRMM)**

Daily rainfall data of major cities in Terengganu (Kemaman, Dungun, Marang, Hulu Terengganu, Kuala Terengganu, Setiu and Besut) were collected from Tropical Rainfall Measuring Mission (TRMM) satellite base rainfall from public domain. For TRMM observatory and instruments, GSFC designed, built and tested the observatory "in house" at its Greenbelt, Md., facility. At launch, the observatory weighed 7,920 lbs. (3,600 kg). It is about 17 feet tall (approximately 5 meters) and 12 feet (3.6 meters) in diameter. A gallium arsenide solar array/nickel cadmium battery power subsystem provides 1,100 watts of load power to the satellite. (Rui, Earth Observatory).

The TRMM Microwave Imager (TMI) is a multi-channel radiometer, whose signals in combination can measure rainfall quite accurately over oceans and somewhat less accurately over the land. The TMI and PR data, will yield the primary precipitation data sets. (Rui, Earth Observatory).



**Figure 3.2 :** Webpage TRMM data

### 3.3.2 Descriptive Statistics

Descriptive statistical analysis for three types of data: i) annual rainfall, ii) annual daily maximum rainfall and iii) annual monthly maximum rainfall. Descriptive statistics deals with organization and summary of large scale data. It includes tables, graphs and numbers to present raw data (Ott and Longnecker, 2010). We applied descriptive statistics to rainfall data to examine its central tendency (mean, median and mode), variability (standard deviation), symmetry (skewness) and peakedness (kurtosis). (Ahammed, 2014)The various statistical moments used in this study are given below:

First moment (mean):

$$\bar{y} = \frac{\sum yi}{n}$$

Second moment (variance):

$$s^2 = \frac{\sum (yi - \bar{y})^2}{n - 1}$$

Third moment (skewness):

$$g = \frac{n \sum (yi - \bar{y})^3}{(n - 1)(n - 2)s^3}$$

Fourth moment (kurtosis):

$$Y_2 = \left[ \frac{(\mu^4)}{(\mu_2)^2} \right] - 3$$

### 3.2.3 Gumbel Distribution Function

The famous statistician Emil Julius Gumbel (1941) was probably, the first person who dealt extreme values of hydrological data in organized way for conducting flood frequency analysis. Traditionally three extreme value distributions: Fréchet, Weibull and Gumbel are commonly used for analysing return periods of annual daily maximum rainfall. (Ahammed, 2014). Hence, the Gumbel distribution function (1941) has been applied to predicting the return periods of expected extreme rainfall events. (Faisal, 2012). The probability and return periods of annual daily maximum rainfall were estimated using Eqs. (1), (2) and (3) respectively.

$$F(x) = \exp\left[-\exp\left\{-\left(\frac{x-\mu}{\sigma}\right)\right\}\right] \quad (1)$$

$$P(x) = 1 - F(x) \quad (2)$$

$$N = \frac{1}{P(x)} \quad (3)$$

Where,

X = annual daily maximum rainfall,

M = mean of observed annual daily maximum rainfall,

$\sigma$  = standard deviation of observed annual daily maximum rainfall,

F(x) = cumulative probability distribution,

P(x) = probability distribution,

N = return periods of expected annual daily maximum rainfall

### 3.3 CONCLUSION

In this chapter, it slightly briefs the preparation of collecting data, pre-processing, processing and analysis the rainfall data into Gumbel Distribution Function. At the end of this chapter, result is successfully achieved and shown.

## CHAPTER 4

### RESULT & DISCUSSION

#### 4.1 INTRODUCTION

In order to analyse the annual maximum rainfall, annual monthly rainfall and annual daily maximum rainfall data was obtained using two methods, Descriptive Analysis and Gumbel Distribution Function.

#### 4.2 DESCRIPTIVE STATISTICS

##### 4.2.1 Descriptive Statistics for Annual Daily Maximum Rainfall

The purpose of descriptive statistics is to get mean, median, standard deviation, minimum and maximum depth for each towns for annual daily maximum.

TOWNS	KEMAMAN	DUNGUN	MARANG	HULU TERENGGAN U	KUALA TERENGGANU	SETIU	BESUT
Mean	218.38	224.32	204.24	209.95	211.46	228.50	209.16
Standard Error	18.55	22.99	16.66	14.36	17.44	24.03	17.82
Median	226.33	188.84	180.48	216.31	193.11	202.26	193.91
Standard Deviation	74.21	91.98	66.64	57.46	69.76	96.13	71.29
Sample Variance	5506.51	8459.62	4440.44	3301.32	4866.99	9240.13	5082.74
Kurtosis	-0.24	2.91	-0.38	-1.18	-0.36	8.45	2.47
Skewness	-0.02	1.65	0.77	-0.10	0.56	2.66	1.56
Range	282.25	354.73	220.28	191.50	235.67	385.87	264.00
Minimum	81.71	122.81	112.18	112.18	112.18	161.13	134.44
Maximum	363.96	477.54	332.45	303.68	347.85	547.00	398.44
Sum	3494.02	3589.06	3267.87	3359.14	3383.40	3656.06	3346.58
Count	16.00	16.00	16.00	16.00	16.00	16.00	16.00

**TABLE 4.1 :** Descriptive statistics for annual daily maximum

Table 4.1 shows the descriptive statistics for annual daily maximum. For example, the mean for kemaman, Dungun, Marang, Hulu Terengganu, Kuala Terengganu, Setiu and Besut are 218.38, 224.32, 204.2419, 209.95, 211.46, 228.50 and 209.16. The maximum depth of rainfall for kemaman, Dungun, Marang, Hulu Terengganu, Kuala Terengganu, Setiu and Besut are 363.96, 477.54, 332.45, 303.68, 347.85, 546.99 and 398.44.

#### 4.2.2 Descriptive Statistics for Annual Monthly Maximum Rainfall

The purpose of descriptive statistics is to get mean, median, standard deviation, minimum and maximum depth for each towns for annual monthly maximum.

TOWNS	KEMAMAN	DUNGUN	MARANG	HULU TERENGGANU	KUALA TERENGGANU	SETIU	BESUT
Mean	218.38	224.32	204.24	209.95	211.46	228.50	209.16
Standard Error	18.55	22.99	16.66	14.36	17.44	24.03	17.82
Median	226.33	188.84	180.48	216.31	193.11	202.26	193.91
Standard Deviation	74.21	91.98	66.64	57.46	69.76	96.13	71.29
Sample Variance	5506.51	8459.62	4440.44	3301.32	4866.99	9240.13	5082.74
Kurtosis	-0.24	2.91	-0.38	-1.18	-0.36	8.45	2.47
Skewness	-0.02	1.65	0.77	-0.10	0.56	2.66	1.56
Range	282.25	354.73	220.28	191.50	235.67	385.87	264.00
Minimum	81.71	122.81	112.18	112.18	112.18	161.13	134.44
Maximum	363.96	477.54	332.45	303.68	347.85	547.00	398.44
Sum	3494.02	3589.06	3267.87	3359.14	3383.40	3656.06	3346.58
Count	16.00	16.00	16.00	16.00	16.00	16.00	16.00

**TABLE 4.2 :** Descriptive statistic for annual monthly maximum

Table 4.2 shows the descriptive statistic for annual monthly maximum. For example, the mean for kemaman, Dungun, Marang, Hulu Terengganu, Kuala Terengganu, Setiu and Besut are 218.38, 224.32, 204.2419, 209.95, 211.46, 228.50 and 209.16. The maximum depth of rainfall for kemaman, Dungun, Marang, Hulu Terengganu, Kuala Terengganu, Setiu and Besut are 363.95, 477.54, 332.45, 03.68, 347.85,.99 and 398.44.



### 4.2.3 Descriptive Statistic for Annual Maximum Rainfall

The purpose of descriptive statistic is to get mean, median, standard deviation, minimum and maximum depth for each towns for annual maximum rainfall.

TOWNS	KEMAMAN	DUNGUN	MARANG	HULU TERENGGANU	KUALA TERENGGANU	SETIU	BESUT
Mean	2972.33	3086.68	3228.33	3322.58	3132.22	3227.26	3197.75
Standard Error	139.87	169.69	291.53	272.47	248.02	173.87	149.14
Median	3059.81	3047.97	2989.48	3148.12	2944.06	2968.62	3046.37
Standard Deviation	559.46	678.74	1166.12	1089.86	992.09	695.47	596.56
Sample Variance	313000.65	460689.04	1359825.65	1187805.46	984237.26	483679.18	355879.61
Kurtosis	0.73	1.10	8.39	6.56	7.65	-0.35	-1.25
Skewness	-0.91	0.48	2.50	2.01	2.35	0.78	0.45
Range	2126.27	2879.02	5424.78	5106.68	4566.10	2337.26	1816.34
Minimum	1641.70	1763.41	1641.17	1626.50	1776.77	2369.75	2370.69
Maximum	3767.97	4642.43	7065.96	6733.18	6342.88	4707.01	4187.03
Sum	47557.23	49386.80	51653.25	53161.22	50115.59	51636.13	51163.99
Count	16.00	16.00	16.00	16.00	16.00	16.00	16.00

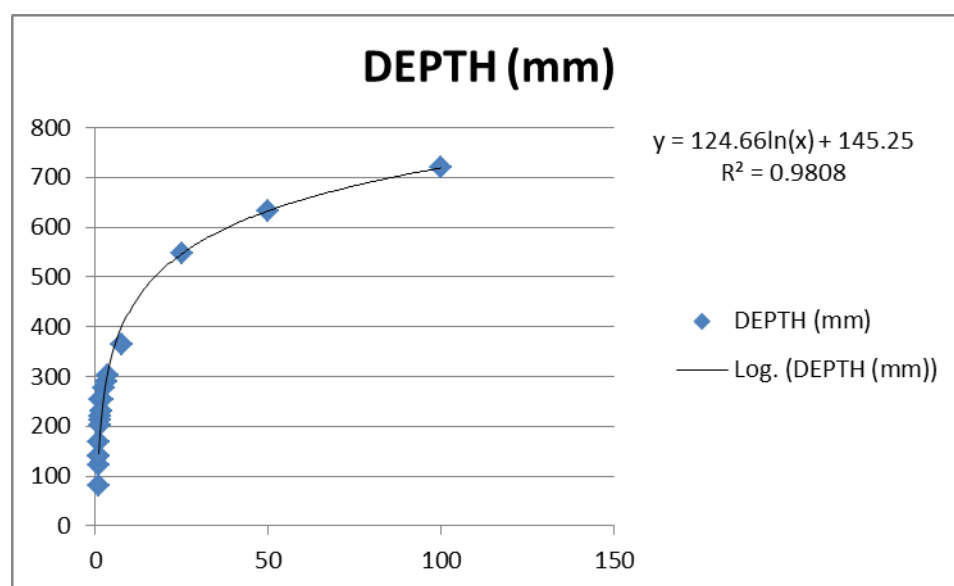
**TABLE 4.3 :** Descriptive statistic for annual maximum rainfall.

Table 4.3 shows the descriptive statistic for annual maximum rainfall. For example, the mean for kemaman, Dungun, Marang, Hulu Terengganu, Kuala Terengganu, Setiu and Besut are 2972.33, 3086.67, 3228.33, 3322.58, 3132.22, Setiu is 3227.26 and 3197.75. The maximum depth of rainfall for kemaman, Dungun, Marang, Hulu Terengganu, Kuala Terengganu, Setiu and Besut are 3767.97, 4642.43, 7065.96, 6733.18, 6342.88, 4707.01 and 4127.03.

### 4.3 GUMBEL DISTRIBUTION FUNCTION

#### 4.3.1 Gumbel Distribution Function for Annual Daily Maximum Rainfall at Kemaman

In this section we provide the estimated return periods for each 25 years, 50 years and 100 years for Kemaman using Gumbel distribution function.



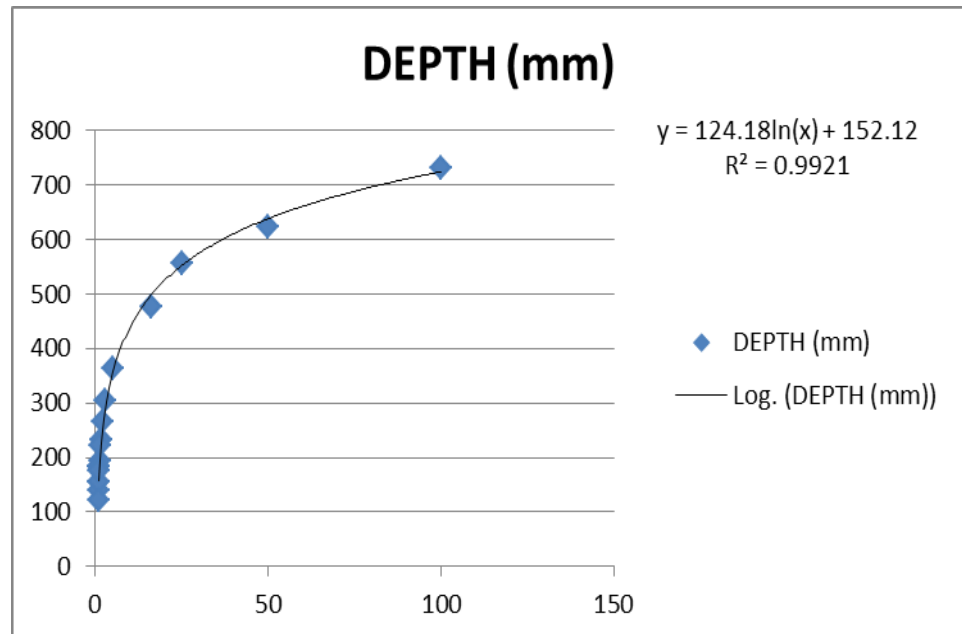
**FIGURE 4.1** : Gumbel distribution function for Kemaman

N	DEPTH (mm)
25	546.52
50	632.93
100	719.33

**TABLE 4.4** : Return Period For Kemaman

### 4.3.2 Gumbel Distribution Function for Annual Daily Maximum Rainfall at Dungun

In this section we provide the estimated return periods for each 25 years, 50 years and 100 years for Dungun using Gumbel distribution function.



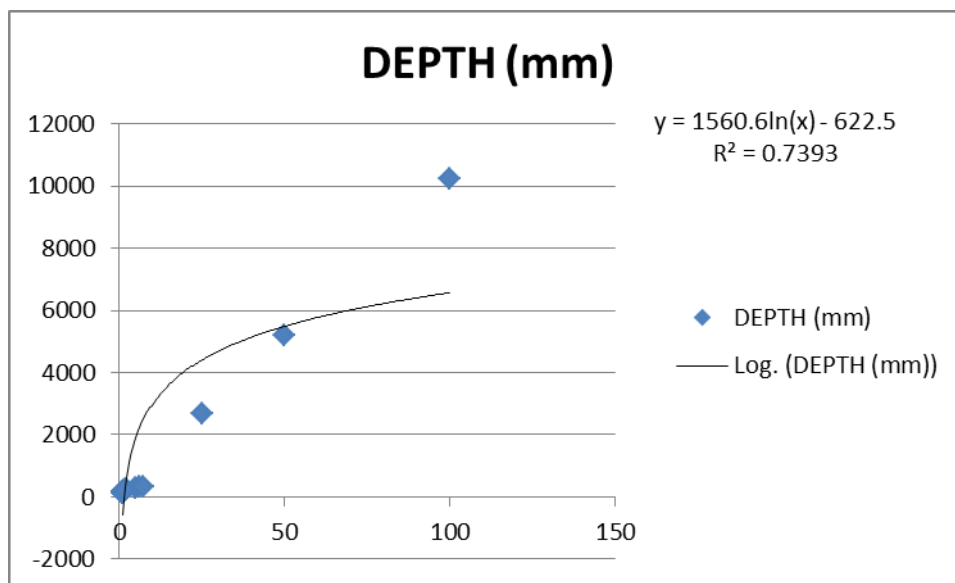
**FIGURE 4.2 :** Gumbel distribution function for Dungun

N	DEPTH (mm)
25	556.13
50	623.27
100	730.41

**TABLE 4.5 :** Return Period For Dungun

### 4.3.3 Gumbel Distribution Function for Annual Daily Maximum Rainfall at Hulu Terengganu

In this section we provide the estimated return periods for each 25 years, 50 years and 100 years for Hulu Terengganu using Gumbel distribution function.



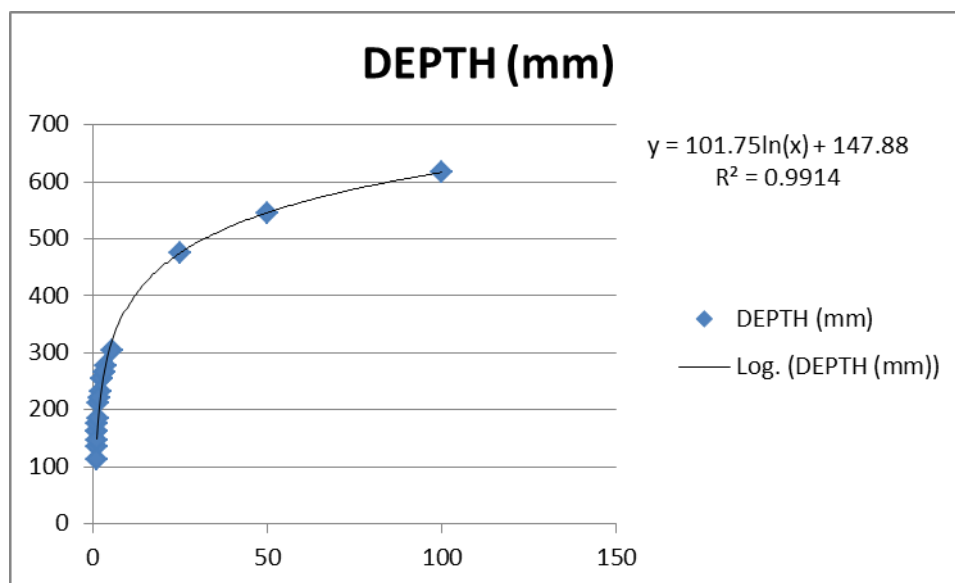
**FIGURE 4.3 :** Gumbel distribution function for Hulu Terengganu

N	DEPTH (mm)
25	2665.71
50	5187.21
100	10230.21

**TABLE 4.6 :** Return Period For Hulu Terengganu

#### 4.3.4 Gumbel Distribution Function for Annual Daily Maximum Rainfall at Marang

In this section we provide the estimated return periods for each 25 years, 50 years and 100 years for Marang using Gumbel distribution function.



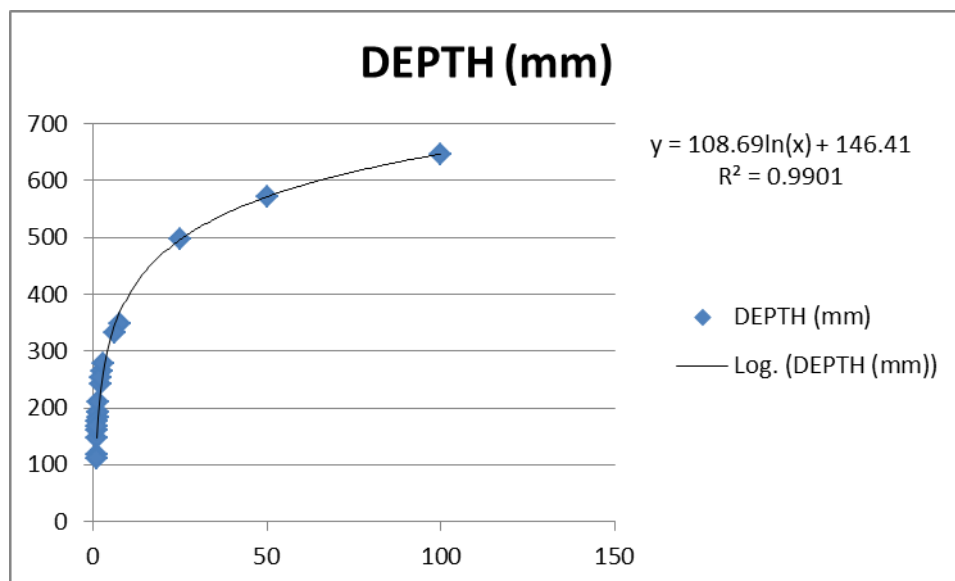
**FIGURE 4.4 :** Gumbel distribution function for Hulu Terengganu

N	DEPTH (mm)
25	475.40
50	545.93
100	616.46

**TABLE 4.7 :** Return Period For Hulu Terengganu

### 4.3.5 Gumbel Distribution Function for Annual Daily Maximum Rainfall at Kuala Terengganu

In this section we provide the estimated return periods for each 25 years, 50 years and 100 years for Kuala Terengganu using Gumbel distribution function.



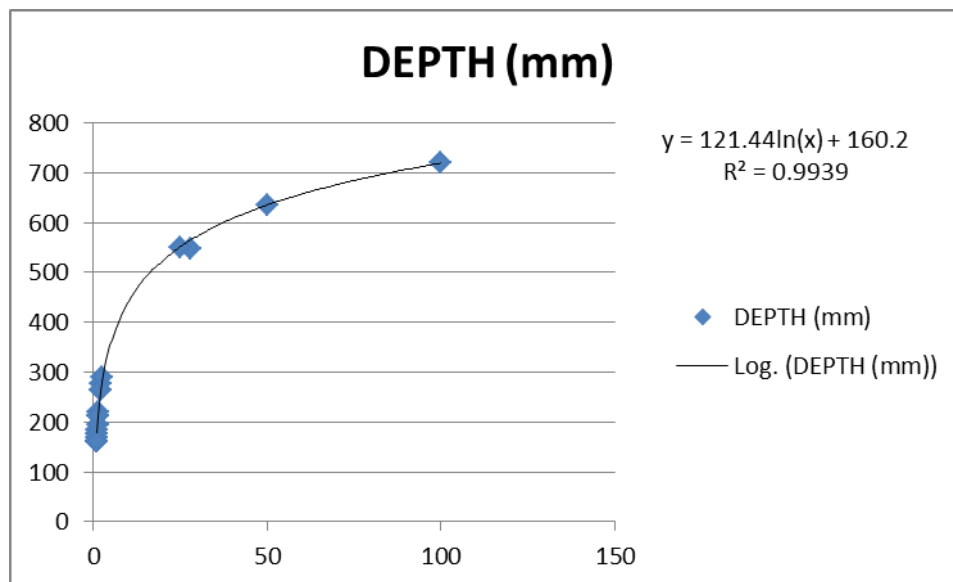
**FIGURE 4.5 :** Gumbel distribution function for Kuala Terengganu

N	DEPTH (mm)
25	496.27
50	571.61
100	646.95

**TABLE 4.8 :** Return Period For Kuala Terengganu

### 4.3.6 Gumbel Distribution Function for Annual Daily Maximum Rainfall at Setiu

In this section we provide the estimated return periods for each 25 years, 50 years and 100 years for Setiu using Gumbel distribution function.



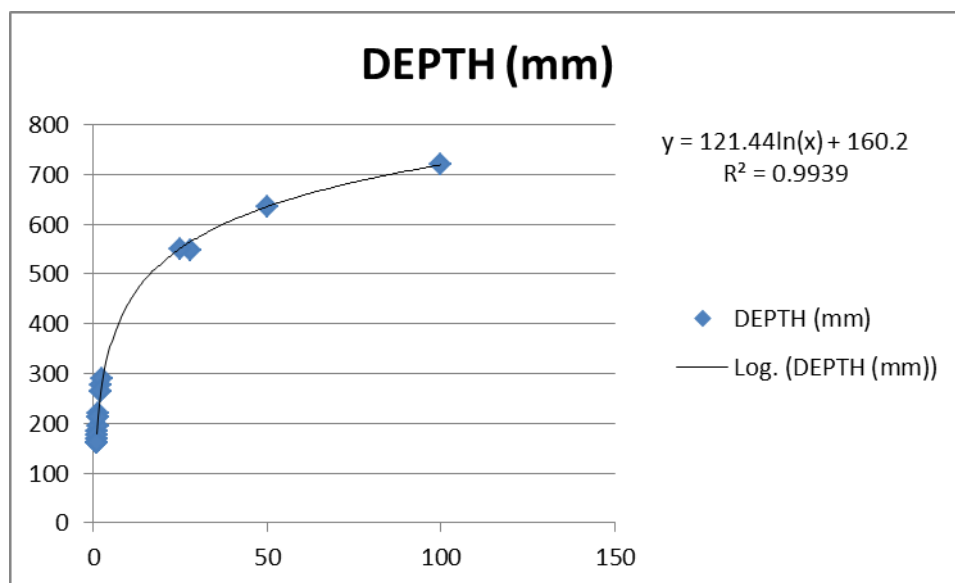
**FIGURE 4.6 :** Gumbel distribution function for Setiu

N	DEPTH (mm)
25	551.10
50	635.28
100	719.45

**TABLE 4.9 :** Return Period For Setiu

### 4.3.7 Gumbel Distribution Function for Annual Daily Maximum Rainfall at Besut

In this section we provide the estimated return periods for each 25 years, 50 years and 100 years for Besut using Gumbel distribution function.



**FIGURE 4.7 :** Gumbel distribution function for Besut

N	DEPTH (mm)
25	551.10
50	635.28
100	719.45

**TABLE 4.10 :** Return Period For Besut

## 4.4 CONCLUSION

In this chapter, the data analysed in order to accomplish the objective that has been set. By using Gumbel Distribution Function method, return period for the rainfall in each Cities was derived.



## CHAPTER 5

### CONCLUSION

#### 5.1 INTRODUCTION

The main objective of this study is to assess the variability of annual maximum rainfall of Terengganu, Malaysia. The specific objectives are to obtain daily satellite base rainfall for study area and to analysis annual maximum rainfall, annual daily maximum and annual monthly maximum rainfall data.

#### 5.2 CONCLUSION

The conclusions that may be derived from the present study are:

City	Daily rainfall (mm)	Date
SETIU	546.99	1/12/2009
DUNGUN	477.54	2/12/2003
BESUT	398.44	1/12/2009
KEMAMAN	363.96	4/12/2013
KUALA TERENGGANU	347.85	2/12/2003
MARANG	332.45	1/12/2013
HULU TERENGGANU	303.68	1/12/2013

**TABLE 5.11** : The historical extreme rainfall events of cities in Terengganu

- i. From Table 5.11 the highest amount of daily rainfall was recorded in Setiu as 546.99 mm on December 1, 2009 followed by Dungun as 477.54 mm on December 2, 2003 and Besut as 398.44 mm on December 1, 2009. It can be seen that the extreme rainfall event often occurs during northeast monsoon season (December). Cities located near the coastal areas receives high extreme rainfall events as compared to other cities.
- ii. The main cause of the flooding in Setiu is because the implementation of Shrimp Farming Project Integrated Aquaculture Park ( I- SHARP ) . According to Dr. Azwan Ibrahim , two roots is the cause of flooding worsens , the reclamation of land and water that slowly receded . (setiublogspot, 2011)
- iii. Causes severe flooding in dungun is due to flash floods. These flash floods cause water to stagnate until the entry into store. While other cities are average , three hundred above. (BBL, 2013)

Towns	Equations (y)	m	c	$R^2$	Return Period		
					25	50	100
KEMAMAN	$124.66\ln(x) + 145.25$	124.7	145.3	0.9808	546.5	632.9	719.3
DUNGUN	$124.18\ln(x) + 152.12$	124.2	152.1	0.9921	556.1	623.3	730.4
MARANG	$1560.6\ln(x) - 622.5$	1561	-623	0.7393	2666	5187	10230
HULU TERENGGANU	$101.75\ln(x) + 147.88$	101.8	147.9	0.9914	475.4	545.9	616.5
KUALA TERENGGANU	$108.69\ln(x) + 146.41$	108.7	146.4	0.9901	496.3	571.6	646.9
SETIU	$121.44\ln(x) + 160.2$	121.4	160.2	0.9939	551.1	635.3	719.5
BESUT	$98.252\ln(x) + 152.08$	98.25	152.1	0.9926	551.1	635.3	719.5

**TABLE 5.12 :** Annual Maximum Rainfall, Annual Monthly Maximum Rainfall and Annual Daily Maximum Rainfall

- iv. From table 5.12, based on the equation for each city , Gumbel distribution function can generate and expect the return period of 25 years , 50 years and 100 years. For return period of 25 years, 50 years and 100 years, the maximum rainfall is in Marang.

### **5.3 RECOMMENDATION**

There are few suggestion and recommendation that can be applied in the future studies to improve the accuracy of data obtained and for getting a better result. The recommendations are:

- I. More detail about the floods damaged need to be included, for example: a damaged of agricultural, corps, structural and transportation.
- II. Expand the study area to each village area.

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Suhaila. (2014). Hydrology.

# APPENDIXES

**JANUARY**

JANUARY																																				
	DATE/BANDAR	1-Jan	2-Jan	3-Jan	4-Jan	5-Jan	6-Jan	7-Jan	8-Jan	9-Jan	10-Jan	11-Jan	12-Jan	13-Jan	14-Jan	15-Jan	16-Jan	17-Jan	18-Jan	19-Jan	20-Jan	21-Jan	22-Jan	23-Jan	24-Jan	25-Jan	26-Jan	27-Jan	28-Jan	29-Jan	30-Jan	31-Jan	TOTAL			
1998	KEMAMAN	0.01	0.01	2.286457	5.915843	4.93603	0.01	36.17465	0.01	10.65596	0.01	0.01	1.454005	3.436373	10.18434	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	122.9279		
	DUNGUN	0.01	0.01	4.30922	0.01	0.44814	28.84735	0.01	0.01	0.01	0.44814	0.44814	0.01	2.392338	10.18434	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.181226	0.01	0.01	17.53272	4.30922	0.01	69.31083			
	MARANG	0.01	0.01	8.497558	0.01	7.090149	39.6026	0.01	0.01	0.357367	1.269366	1.269366	1.996108	49.66177	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	7.418484	3.762007	8.891068	0.01	8.121466	4.1185	1.591789	143.8176		
	HULU TERENGGANU	0.01	0.01	1.823326	0.88371	14.62886	0.01	0.01	0.01	4.1185	0.01	0.01	0.01	27.57059	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.181226	0.01	0.01	0.01	0.01	39.6026	0.357367	89.39618		
	KUALA TERENGGANU	0.01	0.01	5.164609	0.01	0.357367	0.01	0.01	0.01	0.44814	0.01	0.01	0.01	39.6026	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	12.77119	0.01	0.01	0.01	4.1185	3	4.508773	70.20118		
	SETIU	21.98	21.9861	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	30.18322	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	6.776348	0.01	0.01	0.091902	0.091902	0.01	0.01	1.454005	0.01	82.80345
	BESUT	59.51	59.5197	30.183219	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	5.164609	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	5.403775	0.091902	25.18412	0.01	0.01	0.01	0.01	0.01	185.2974	
1999	KEMAMAN	85.49458	122.805	78.094245	78.094245	0.468892	0.01	0.01	0.01	0.01	0.173205	0.01	0.01	0.01	0.01	0.01	0.01	0.01	1.269366	5.654015	17.53272	0.357367	0.01	30.18322	24.0695	49.66177	34.57361	0.01	0.298179	0.01	0.173205	529.0531				
	DUNGUN	39.6026	36.1747	51.961528	51.961528	0.01	0.01	0.01	5.403775	0.01	3.284284	4.30922	0.01	0.01	0.01	0.01	0.01	0.01	0.807217	0.01	13.36261	0.807217	0.01	43.35539	23.00422	4.508773	21.013	0.704711	11.66573	33.04342	0.01	345.1099				
	MARANG	41.43654	30.1832	45.363109	45.363109	0.01	0.01	0.01	0.326435	0.01	0.561968	0.01	0.158213	0.01	0.01	0.40935	0.01	5.915843	0.01	0.158213	0.01	8.891068	0.01	0.01	65.15989	6.776348	5.654015	27.57059	2.503124	31.58095	19.19414	0.01	337.3361			
	HULU TERENGGANU	47.46379	62.276	51.961528	51.961528	0.01	2.185261	0.01	0.01	0.01	0.01	0.513325	0.01	0.01	0.2172	0.01	0.2172	0.01	5.164609	0.01	37.84984	0.01	0.01	68.17734	9.733594	17.53272	49.66177	18.34463	21.98607	11.14942	0.01	456.5358				
	KUALA TERENGGANU	27.57059	8.89107	21.986074	21.986074	0.01	2.740324	0.01	2.286457	0.01	0.537096	1.012251	0.01	0.01	0.01	10.65596	0.01	0.01	0.01	0.357367	0.01	1.012251	0.01	0.01	49.66177	0.01	7.090149	4.93603	0.01	0.01	0.01	16.01511	176.8986			
	SETIU	3.93622	43.3554	54.367778	54.367778	0.01	9.302798	0.01	2.286457	0.01	4.508773	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.704711	0.01	0.771489	0.01	0.01	0.01	0.01	51.96153	0.01	1.389652	31.58095	0.01	59.51974	0.01	0.01	318.2333		
	BESUT	2.088543	30.1832	25.184122	25.184122	0.01	36.17465	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	2.392338	0.01	1.665501	0.01	6.189795	0.01	2.185261	31.58095	0.01	0.357367	27.57059	0.01	62.276	41.43654	0.144518	294.7735		
2000	KEMAMAN	0.01	0.01	1.996108	0.01	19.194141	0.704711	0.01	0.01	0.01	0.844598	0.844598	0.01	0.01	0.01	0.01	21.98607	168.5908	68.17734	0.01	0.01	11.14942	0.01	0.01	0.01	26.35036	0.924633	0.01	3.93622	7.418484	11.14942	74.63789	418.0648			
	DUNGUN	1.742629	0.01	3.762007	0.01	0.01	7.762021	0.01	0.01	5.915843	0.88371	0.88371	0.01	0.01	0.01	0.01	56.88547	45.36311	0.01	0.01	0.01	10.65596	0.01	6.189795	0.807217	33.04342	0.01	0.01	0.01	12.20595	13.9814	45.36311	245.6054			
	MARANG	3	4.93603	0.01	0.01	4.93603	21.98607	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	21.013	0.181226	1.521339	0.01	0.01	9.733594	0.01	1.907763	2.61904	0.01	0.01	0.01	0.01	13.36261	15.3063	51.96153	152.6445			
	HULU TERENGGANU	4.508773	16.0151	0.272369	2.61904	8.121466	17.53272	31.58095	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	11.14942	3.93622	4.508773	0.01	0.01	2.392338	0.01	0.01	0.807217	0.01	0.01	0.01	0.01	19.19414	12.20595	43.35539	178.3599			
	KUALA TERENGGANU	0.091902	1.26937	0.181226	0.01	0.44814	16.75674	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	2.740324	9.733594	0.01	0.01	10.65596	0.01	6.476435	27.57059	0.01	0.01	0.01	0.01	26.35036	10.18434	54.36778	167.0068			
	SETIU	3	0.01	2.088543	0.01	1.454005	0.272369	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	5.915843	11.14942	0.01	3.284284	1.454005	8.121466	27.57059	0.01	0.01	0.01	0.01	10.18434	2.088543	43.35539	120.1188			
	BESUT	3	54.3678	10.184339	0.01	0.01	0.643711	16.75674	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.643711	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.807217	0.01	0.807217	0.01	0.01	0.01	0.01	8.497558	5.915843	54.36778
2001	KEMAMAN	78.09425	4.30922	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	49.66177	3.93622	19.19414	202.0564	39.6026	0.01	3.138925	0.01	0.01	0.01	6.189795	0.01	0.01	0.01	0.01	0.01	34.57361	440.967			
	DUNGUN	168.5908	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	4.1185	6.476435	0.01	51.96153	20.08299	0.01	0.01	184.5667	37.84984	0.01	1.159492	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	18.34463	493.3709			
	MARANG	231.4471	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	5.164609	34.57361	0.587993	5.654015	7.418484	202.0564	18.34463	0.01	1.907763	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.490606	10.65596	518.5012			
	HULU TERENGGANU	140.6679	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	2.503124	0.561968	31.58095	33.04342	4.717567	8.121466	253.3792	37.84984	8.497558	1.108173	3.284284	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.44814	9.302798	535.2364		
	KUALA TERENGGANU	153.9978	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.88371	25.18412	4.508773	184.5667	23.00422	0.01	0.181226	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.643711	5.654015	398.8443		
	SETIU	107.2104	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	3.436373	107.2104	0.01	7.762021	1.907763	122.805	54.36778	0.01	4.30922	0.01	0.01	0.01	0.181226	0.01	0.01	0.01	0.01	0.01	0.44814	409.8483			
	BESUT	54.36778	9.3028	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	4.1185	161.1292	0.01	0.01	4.30922	31.58095	49.66177	0.01	11.14942	0.01	0.807217	0.01	1.907763	0.01	0.01	0.01	0.01	0.01	2.503124	331.0377			





	DATE/BANDAR	1-Jan	2-Jan	3-Jan	4-Jan	5-Jan	6-Jan	7-Jan	8-Jan	9-Jan	10-Jan	11-Jan	12-Jan	13-Jan	14-Jan	15-Jan	16-Jan	17-Jan	18-Jan	19-Jan	20-Jan	21-Jan	22-Jan	23-Jan	24-Jan	25-Jan	26-Jan	27-Jan	28-Jan	29-Jan	30-Jan	31-Jan	TOTAL	
		2006	KEMAMAN	47.46379	0.01	6.776348	0.01	0.01	37.84984	11.66573	7.090149	2.753156	0.01	0.01	0.01	0.01	0.01	3.93622	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
DUNGUN	3		0.01	0.272369	0.01	0.01	33.04342	13.9814	0.272369	0.03737	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	2.740324	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.844598	54.42185
MARANG	0.01		0.35737	1.328148	0.01	0.01	13.36261	0.01	0.272369	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	15.59049
HULU TERENGGANU	3.436373		0.64371	4.93603	0.01	0.01	33.04342	0.01	0.091902	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.189618	42.59105
KUALA TERENGGANU	0.01		0.01	9.302798	0.643711	0.01	0.091902	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	2.740324	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.066943	13.10568
SETIU	0.01		0.01	14.62886	0.01	0.01	2.392338	0.01	0.272369	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	2.088543	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	1.213186	20.8553
BESUT	0.01		0.01	68.177337	0.01	0.01	0.01	0.01	2.088543	0.01	0.01	0.01	0.01	0.01	4.508773	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.737344	75.782
2007	DATE/BANDAR	1-Jan	2-Jan	3-Jan	4-Jan	5-Jan	6-Jan	7-Jan	8-Jan	9-Jan	10-Jan	11-Jan	12-Jan	13-Jan	14-Jan	15-Jan	16-Jan	17-Jan	18-Jan	19-Jan	20-Jan	21-Jan	22-Jan	23-Jan	24-Jan	25-Jan	26-Jan	27-Jan	28-Jan	29-Jan	30-Jan	31-Jan	TOTAL	
	KEMAMAN	4.93603	0.01	0.01	0.428306	1.521339	117.3698	242.165	47.46379	0.053384	0.01	0.01	0.01	3.762007	15.3063	0.01	0.01	0.01	7.090149	0.01	0.537096	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	440.8332
	DUNGUN	16.01511	1.26937	0.01	6.476435	18.344629	147.182	265.1129	0.01	0.373917	0.326435	0.01	0.01	0.01	8.497558	0.01	0.01	0.01	0.046605	0.01	0.01	0.01	0.01	0.01	0.01	0.01	4.30922	0.01	0.01	0.01	0.01	0.01	0.01	468.1542
	MARANG	18.34463	5.16461	0.01	3.762007	28.847349	107.2104	231.4471	0.01	0.67352	0.10527	0.01	0.01	0.01	0.311987	0.01	0.01	0.01	0.01	0.01	0.67352	0.01	0.01	0.158213	0.01	5.164609	0.01	0.01	0.01	0.01	0.01	0.01	402.0532	
	HULU TERENGGANU	4.93603	0.01	0.01	3	23.004217	134.4422	265.1129	0.01	4.93603	0.01	0.01	0.01	1.907763	0.326435	0.01	0.01	0.01	0.01	0.01	3.138925	0.01	0.01	2.286457	0.01	2.286457	0.01	0.01	0.01	0.10527	0.01	0.01	445.6727	
	KUALA TERENGGANU	93.59613	1.90776	0.2172	5.915843	39.6026	56.88547	193.1137	0.01	0.055856	0.01	0.01	0.01	0.110145	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	6.476435	0.01	0.01	0.01	0.01	0.01	398.0911	
	SETIU	62.276	10.1843	0.01	12.771189	36.174652	33.04342	265.1129	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	5.403775	0.771489	0.01	0.01	0.01	6.776348	0.01	0.01	432.7341	
BESUT	21.013	30.1832	0.01	39.6026	13.981404	56.88547	176.398	2.286457	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.704711	0.01	0.01	0.01	4.30922	0.01	0.01	345.5841		
2008	DATE/BANDAR	1-Jan	2-Jan	3-Jan	4-Jan	5-Jan	6-Jan	7-Jan	8-Jan	9-Jan	10-Jan	11-Jan	12-Jan	13-Jan	14-Jan	15-Jan	16-Jan	17-Jan	18-Jan	19-Jan	20-Jan	21-Jan	22-Jan	23-Jan	24-Jan	25-Jan	26-Jan	27-Jan	28-Jan	29-Jan	30-Jan	31-Jan	TOTAL	
	KEMAMAN	0.01	8.89107	8.121466	0.01	0.01	0.01	0.844598	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	202.0564	51.96153	0.01	2.392338	0.01	0.01	0.01	0.01	0.01	0.165539	0.01	0.01	0.01	0.01	0.01	0.01	274.673	
	DUNGUN	5.164609	23.0042	6.776348	0.01	0.01	2.185261	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	242.165	5.164609	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	284.71	
	MARANG	24.0695	71.3345	1.328148	6.776348	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	3.595505	134.4422	0.468892	0.01	0.468892	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	242.714
	HULU TERENGGANU	24.0695	21.013	8.121466	0.01	0.01	0.01	0.181226	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	7.418484	107.2104	0.01	0.01	0.091902	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	168.346	
	KUALA TERENGGANU	18.34463	27.5706	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	2.286457	81.71069	0.01	0.01	0.091902	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	130.2643	
	SETIU	11.66573	68.1773	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	16.75674	7.762021	56.88547	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	161.5073	
BESUT	0.01	33.0434	0.01	0.01	0.01	5.403775	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	5.403775	37.84984	0.01	0.01	0.01	0.01	4.93603	0.01	0.01	0.01	0.01	9.302798	0.01	0.01	0.01	0.01	96.18963		
2009	DATE/BANDAR	1-Jan	2-Jan	3-Jan	4-Jan	5-Jan	6-Jan	7-Jan	8-Jan	9-Jan	10-Jan	11-Jan	12-Jan	13-Jan	14-Jan	15-Jan	16-Jan	17-Jan	18-Jan	19-Jan	20-Jan	21-Jan	22-Jan	23-Jan	24-Jan	25-Jan	26-Jan	27-Jan	28-Jan	29-Jan	30-Jan	31-Jan	TOTAL	
	KEMAMAN	74.63789	0.77149	4.717567	0.01	0.01	0.01	0.01	8.891068	17.53272	0.01	0.428306	13.36261	17.53272	0.01	0.01	0.01	0.126166	3.93622	0.01	3.762007	1.269366	0.01	6.189795	0.468892	12.77119	6.189795	1.269366	0.01	0.01	23.00422	2.286457	199.2678	
	DUNGUN	17.53272	3.93622	0.01	9.302798	0.01	0.01	0.01	0.807217	14.62886	0.01	5.403775	0.01	14.62886	2.286457	3	0.01	4.30922	0.110145	0.01	0.01	0.01	0.01	0.01	0.01	0.01	9.733594	0.01	0.01	0.01	4.508773	13.9814	18.34463	122.6747
	MARANG	25.18412	7.76202	0.100611	3.138925	0.01	0.01	0.01	1.742629	11.14942	0.01	1.059128	3.138925	11.14942	0.01	0.01	0.01	1.591789	0.01	0.091902	0.01	0.01	0.01	1.454005	0.01	1.742629	1.454005	0.01	0.01	3	12.77119	24.0695	110.7402	
	HULU TERENGGANU	161.1292	9.3028	0.357367	5.654015	0.01	0.01	0.01	4.508773	2.740324	3.595505	0.01	2.61904	2.740324	0.01	0.01	0.01	11.66573	0.15121	0.181226	3.762007	0.01	0.01	2.392338	9.733594	0.01	2.392338	0.01	0.01	0.01	0.01	0.01	28.84735	251.9131
	KUALA TERENGGANU	1.591789	9.3028	0.01	7.090149	0.01	0.01	0.01	13.9814	9.302798	0.01	8.497558	3.284284	9.302798	0.01	0.01	0.01	0.01	0.01	0.01	3.284284	0.01	0.01	0.01	0.01	0.01	0.025873	0.01	3.138925	0.01	3.595505	12.77119	18.34463	103.684
	SETIU	37.84984	11.1494	0.01	4.508773	0.01	0.01	3.762007	28.84735	12.20595	0.01	3.93622	0.01	12.20595	0.01	0.01	0.01	0.01	0.01	0.01	4.508773	0.01	0.01	2.867223	0.01	0.053384	2.867223	1.389652	0.01	0.01	10.65596	39.6026	176.5703	
BESUT	11.14942	13.9814	0.01	3.284284	0.01	0.01	3.436373	68.17734	9.302798	1.159492	0.01	0.01	9.302798	0.01	3.762007	0.01	0.01	0.01	0.01	1.591789	2.185261	0.01	0.01	5.654015	0.01	0.587993	5.654015	0.01	0.01	3.284284	6.776348	56.88547	206.3151	



**FEBRUARY**





	DATE/BANDAR	1-Feb	2-Feb	3-Feb	4-Feb	5-Feb	6-Feb	7-Feb	8-Feb	9-Feb	10-Feb	11-Feb	12-Feb	13-Feb	14-Feb	15-Feb	16-Feb	17-Feb	18-Feb	19-Feb	20-Feb	21-Feb	22-Feb	23-Feb	24-Feb	25-Feb	26-Feb	27-Feb	28-Feb	TOTAL		
	2006	KEMAMAN	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	25.18412	153.9978	128.4919	112.1751	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.272369	0.01	0.01	45.36311	0.01	0.771489	0.01	2.503124	0.01	468.959
DUNGUN		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.132009	9.302798	117.3698	74.63789	153.9978	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	49.66177	0.01	0.01	0.01	0.01	0.01	405.322	
MARANG		0.01	0.01	0.01	0.01	0.01	0.087835	0.01	0.01	49.66177	13.36261	117.3698	62.276	140.6679	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	36.17465	0.01	0.01	0.01	3.284284	0.01	423.0849	
HULU TERENGGANU		0.01	0.01	0.01	0.01	0.537096	0.341551	0.01	0.01	78.09425	41.43654	153.9978	81.71069	56.88547	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.207587	0.01	0.01	33.04342	0.01	0.01	0.01	2.867223	2.185261	451.4769	
KUALA TERENGGANU		0.01	0.01	0.01	0.01	0.01	2.088543	0.01	0.01	1.591789	33.04342	49.66177	85.49458	78.09425	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	56.88547	0.01	0.01	0.01	10.18434	0.01	317.2442	
SETIU		0.01	0.01	0.01	0.01	0.01	1.269366	0.01	0.01	1.454005	9.302798	59.51974	140.6679	81.71069	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	37.84984	0.01	0.01	0.01	11.14942	0.01	343.1238	
BESUT		0.01	0.01	0.01	0.01	3.284284	8.497558	0.01	12.20595	19.19414	12.77119	68.17734	27.57059	49.66177	4.93603	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	5.654015	23.00422	0.01	235.1271	
2007	DATE/BANDAR	1-Feb	2-Feb	3-Feb	4-Feb	5-Feb	6-Feb	7-Feb	8-Feb	9-Feb	10-Feb	11-Feb	12-Feb	13-Feb	14-Feb	15-Feb	16-Feb	17-Feb	18-Feb	19-Feb	20-Feb	21-Feb	22-Feb	23-Feb	24-Feb	25-Feb	26-Feb	27-Feb	28-Feb	TOTAL		
	KEMAMAN	0.01	0.01	0.01	0.01	0.01	0.807217	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	1.454005	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	2.521222	
	DUNGUN	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.28	
	MARANG	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.091902	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	4.1185	0.01	0.01	4.470402	
	HULU TERENGGANU	0.01	0.01	0.01	0.01	0.01	0.01	0.181226	0.01	0.01	0.01	0.091902	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.704711	0.01	1.227839	
	KUALA TERENGGANU	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	8.121466	0.01	0.357367	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	9.733594	0.01	0.01	0.01	18.46243	
	SETIU	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	21.013	0.01	3.93622	0.01	0.01	0.01	0.01	0.01	21.013	0.01	0.01	0.01	0.01	0.01	0.01	46.21222		
BESUT	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	6.476435	0.01	0.01	0.01	0.091902	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.091902	0.01	0.01	0.01	5.164609	0.01	12.06485		
2008	DATE/BANDAR	1-Feb	2-Feb	3-Feb	4-Feb	5-Feb	6-Feb	7-Feb	8-Feb	9-Feb	10-Feb	11-Feb	12-Feb	13-Feb	14-Feb	15-Feb	16-Feb	17-Feb	18-Feb	19-Feb	20-Feb	21-Feb	22-Feb	23-Feb	24-Feb	25-Feb	26-Feb	27-Feb	28-Feb	TOTAL		
	KEMAMAN	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	81.71069	68.17734	150.148		
	DUNGUN	0.01	0.01	0.01	0.181226	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	9.733594	0.01	0.01	0.01	0.01	0.01	0.01	81.71069	21.013	112.8785	
	MARANG	21.013	0.01	0.01	5.915843	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	25.18412	0.01	0.272369	47.46379	100.0791	
	HULU TERENGGANU	1.742629	0.01	0.073287	7.090149	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	13.9814	7.762021	1.823326	184.5667	217.2495
	KUALA TERENGGANU	0.01	0.01	0.01	0.01	0.01	0.01	0.01	7.762021	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.070043	0.01	0.01	0.01	0.01	0.01	0.01	0.01	6.476435	54.36778	0.01	21.98607	68.17734	159.0597	
	SETIU	8.891068	0.01	7.762021	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	4.30922	0.01	0.01	68.17734	5.915843	0.01	117.3698	212.6453	
BESUT	0.01	0.01	0.01	0.01	0.01	0.01	0.01	4.508773	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	6.189795	0.01	11.66573	25.18412	0.01	5.164609	43.35539	96.28842		
2009	DATE/BANDAR	1-Feb	2-Feb	3-Feb	4-Feb	5-Feb	6-Feb	7-Feb	8-Feb	9-Feb	10-Feb	11-Feb	12-Feb	13-Feb	14-Feb	15-Feb	16-Feb	17-Feb	18-Feb	19-Feb	20-Feb	21-Feb	22-Feb	23-Feb	24-Feb	25-Feb	26-Feb	27-Feb	28-Feb	TOTAL		
	KEMAMAN	0.01	0.01	0.01	0.771489	0.01	4.717567	0.428306	0.771489	13.36261	17.53272	17.53272	0.01	23.00422	0.01	0.126166	8.891068	3.762007	0.01	0.01	0.01	3.93622	1.269366	0.01	2.286457	6.189795	1.269366	0.01	0.01	105.9716		
	DUNGUN	0.01	0.01	9.302798	3.93622	0.01	0.01	5.403775	3.93622	0.01	14.62886	14.62886	3	13.9814	0.01	4.30922	0.807217	0.01	2.286457	0.01	0.01	0.110145	0.01	0.01	18.34463	0.01	0.01	0.01	4.508773	99.32458		
	MARANG	0.01	0.01	3.138925	7.762021	0.01	0.100611	1.059128	7.762021	3.138925	11.14942	11.14942	0.01	12.77119	0.01	1.591789	1.742629	0.01	0.01	0.01	0.091902	0.01	0.01	0.01	24.0695	1.454005	0.01	0.01	3	90.11149		
	HULU TERENGGANU	0.01	0.01	5.654015	9.302798	0.01	0.357367	0.01	9.302798	2.61904	2.740324	2.740324	0.01	0.01	0.01	11.66573	4.508773	3.762007	0.01	3.595505	0.181226	0.15121	0.01	0.01	0.01	28.84735	2.392338	0.01	0.01	87.95081		
	KUALA TERENGGANU	0.01	0.01	7.090149	9.302798	0.01	0.01	8.497558	9.302798	3.284284	9.302798	9.302798	0.01	12.77119	0.01	0.01	13.9814	3.284284	0.01	0.01	0.01	0.01	0.01	0.01	0.01	18.34463	0.01	3.138925	0.01	3.595505	111.3491	
	SETIU	0.01	0.01	4.508773	11.14942	3.762007	0.01	3.93622	11.14942	0.01	12.20595	12.20595	0.01	10.65596	0.01	0.01	28.84735	4.508773	0.01	0.01	0.01	0.01	0.01	0.01	0.01	39.6026	2.867223	1.389652	0.01	0.01	146.9393	
BESUT	0.01	0.01	3.284284	13.9814	3.436373	0.01	0.01	13.9814	0.01	9.302798	9.302798	3.762007	6.776348	0.01	0.01	68.17734	2.185261	0.01	1.159492	1.591789	0.01	0.01	0.01	0.01	56.88547	5.654015	0.01	0.01	3.284284	202.8951		

	DATE/BANDAR	1-Feb	2-Feb	3-Feb	4-Feb	5-Feb	6-Feb	7-Feb	8-Feb	9-Feb	10-Feb	11-Feb	12-Feb	13-Feb	14-Feb	15-Feb	16-Feb	17-Feb	18-Feb	19-Feb	20-Feb	21-Feb	22-Feb	23-Feb	24-Feb	25-Feb	26-Feb	27-Feb	28-Feb	TOTAL		
	2010	KEMAMAN	0.01	0.01	0.01	0.01	0.01	0.091902	0.01	0.01	0.272369	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.624271
DUNGUN		0.01	0.01	0.01	0.01	0.01	0.01	0.01	8.891068	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	9.161068	
MARANG		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	33.04342	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	33.31342
HULU TERENGGANU		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	31.58095	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	31.85095
KUALA TERENGGANU		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.28
SETIU		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.28
BESUT		0.01	0.01	0.01	2.740324	2.740324	0.01	0.01	7.418484	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	13.14913
2011	DATE/BANDAR	1-Feb	2-Feb	3-Feb	4-Feb	5-Feb	6-Feb	7-Feb	8-Feb	9-Feb	10-Feb	11-Feb	12-Feb	13-Feb	14-Feb	15-Feb	16-Feb	17-Feb	18-Feb	19-Feb	20-Feb	21-Feb	22-Feb	23-Feb	24-Feb	25-Feb	26-Feb	27-Feb	28-Feb	TOTAL		
	KEMAMAN	47.46379	0.189618	0.01	0.01	0.01	3.595505	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	1.665501	0.01	0.01	0.01	0.01	5.164609	7.090149	3.93622	0.01	0.01	0.513325	0.01	0.01	69.81872		
	DUNGUN	85.49458	1.159492	0.01	0.01	8.121466	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	3.284284	8.497558	0.115245	0.01	0.01	0.468892	0.01	0.01	107.3515		
	MARANG	39.6026	3.138925	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	8.121466	8.121466	0.132009	0.01	0.066943	0.01	0.01	0.01	59.40341		
	HULU TERENGGANU	41.43654	3.436373	0.01	0.428306	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	24.0695	0.01	0.01	0.01	0.01	4.717567	9.302798	0.737344	0.01	0.357367	0.01	0.01	0.01	84.6858		
	KUALA TERENGGANU	9.302798	1.012251	2.740324	0.01	0.01	5.915843	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	12.77119	0.048763	1.742629	0.01	0.01	0.01	0.01	0.01	33.7438		
	SETIU	4.508773	1.996108	0.01	0.01	0.01	9.733594	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	24.0695	0.44814	0.01	0.01	0.01	0.01	0.01	0.01	40.98612		
BESUT	0.01	0.2172	0.01	0.01	5.164609	12.77119	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	7.762021	12.77119	0.807217	0.01	0.01	0.01	0.01	0.01	0.513325	40.21675		
2012	DATE/BANDAR	1-Feb	2-Feb	3-Feb	4-Feb	5-Feb	6-Feb	7-Feb	8-Feb	9-Feb	10-Feb	11-Feb	12-Feb	13-Feb	14-Feb	15-Feb	16-Feb	17-Feb	18-Feb	19-Feb	20-Feb	21-Feb	22-Feb	23-Feb	24-Feb	25-Feb	26-Feb	27-Feb	28-Feb	TOTAL		
	KEMAMAN	0.01	4.508773	2.185261	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.044542	0.01	0.01	0.01	0.01	0.01	0.01	3.762007	0.01	0.01	0.01	0.01	0.01	5.403775	4.717567	20.84193		
	DUNGUN	0.01	0.01	0.587993	0.01	0.01	0.01	0.01	0.01	0.01	9.733594	0.01	0.01	1.012251	0.01	0.01	0.01	12.77119	0.01	0.844598	7.418484	0.01	0.01	0.01	0.01	0.01	0.01	2.61904	0.01	0.01	35.19715	
	MARANG	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	8.497558	0.01	0.01	1.159492	0.01	0.01	0.01	9.302798	0.01	13.36261	0.01	10.18434	0.01	0.01	0.01	0.01	0.01	0.01	1.328148	0.01	33.8806		
	HULU TERENGGANU	0.01	0.01	18.34463	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	19.19414	0.01	2.867223	0.01	0.01	0.01	0.073287	10.18434	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.357367	8.497558	59.72854		
	KUALA TERENGGANU	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	9.733594	0.01	0.01	6.476435	0.01	0.01	0.01	11.14942	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	8.121466	35.72092		
	SETIU	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	11.66573	0.01	0.01	0.01	12.20595	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	24.0695	48.19119			
BESUT	0.024728	0.01	6.476435	0.01	0.01	0.01	0.01	0.01	3.762007	0.01	0.01	0.138122	0.01	0.01	0.01	0.070043	6.776348	0.01	0.01	0.01	0.01	6.476435	0.01	0.01	3.138925	0.01	0.01	18.34463	45.39767			
2013	DATE/BANDAR	1-Feb	2-Feb	3-Feb	4-Feb	5-Feb	6-Feb	7-Feb	8-Feb	9-Feb	10-Feb	11-Feb	12-Feb	13-Feb	14-Feb	15-Feb	16-Feb	17-Feb	18-Feb	19-Feb	20-Feb	21-Feb	22-Feb	23-Feb	24-Feb	25-Feb	26-Feb	27-Feb	28-Feb	TOTAL		
	KEMAMAN	59.51974	0.01	0.01	6.189795	34.57361	0.01	0.01	2.286457	0.01	0.01	74.63789	0.01	0.01	0.01	0.01	21.98607	23.00422	8.121466	2.740324	0.01	0.01	0.01	1.389652	49.66177	85.49458	12.77119	1.907763	384.4245			
	DUNGUN	147.182	0.01	0.01	0.033948	0.01	0.01	0.01	1.012251	0.01	0.01	10.18434	74.63789	9.302798	1.059128	0.01	47.46379	10.18434	6.476435	2.286457	0.01	0.01	0.01	0.01	0.165539	15.3063	176.398	1.521339	0.01	503.3446		
	MARANG	332.4522	0.01	0.01	0.01	0.01	0.01	0.01	1.996108	0.01	0.01	1.454005	14.62886	59.51974	0.01	0.227258	28.84735	3.436373	0.189618	4.717567	0.01	0.01	0.01	4.30922	13.36261	11.66573	176.398	9.733594	0.01	663.0682		
	HULU TERENGGANU	303.6756	0.01	0.01	0.924633	0.01	0.01	0.01	0.01	0.01	0.01	9.733594	71.33451	3.762007	0.615221	47.46379	5.164609	0.058442	0.272369	0.01	0.01	0.01	2.740324	28.84735	16.01511	161.1292	33.04342	0.01	684.9101			
	KUALA TERENGGANU	277.3899	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	4.508773	34.57361	0.01	0.10527	26.35036	0.01	0.513325	0.615221	0.01	0.01	3.138925	11.14942	15.3063	184.5667	8.891068	0.01	567.2688				
	SETIU	161.1292	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	4.30922	0.01	5.654015	0.01	0.01	23.00422	0.01	15.3063	0.01	4.93603	0.01	0.01	3.93622	34.57361	14.62886	161.1292	10.18434	25.18412	464.1352		
BESUT	81.71069	0.01	2.740324	0.01	0.01	0.01	0.01	0.01	0.01	1.454005	0.01	4.93603	2.885588	3.347662	3.809736	4.27181	4.733884	5.195958	5.658033	0.01	0.01	0.01	6.776348	62.276	33.04342	81.71069	43.35539	11.66573	359.6813			

**MARCH**



MARCH		1-Mar	2-Mar	3-Mar	4-Mar	5-Mar	6-Mar	7-Mar	8-Mar	9-Mar	10-Mar	11-Mar	12-Mar	13-Mar	14-Mar	15-Mar	16-Mar	17-Mar	18-Mar	19-Mar	20-Mar	21-Mar	22-Mar	23-Mar	24-Mar	25-Mar	26-Mar	27-Mar	28-Mar	29-Mar	30-Mar	31-Mar	TOTAL		
1998	DATE/BANDAR	1-Mar	2-Mar	3-Mar	4-Mar	5-Mar	6-Mar	7-Mar	8-Mar	9-Mar	10-Mar	11-Mar	12-Mar	13-Mar	14-Mar	15-Mar	16-Mar	17-Mar	18-Mar	19-Mar	20-Mar	21-Mar	22-Mar	23-Mar	24-Mar	25-Mar	26-Mar	27-Mar	28-Mar	29-Mar	30-Mar	31-Mar	TOTAL		
	KEMAMAN	0.01	0.01	1.108173	34.57361	0.01	0.01	1.389652	11.14942	3.595505	0.01	0.01	0.01	0.01	0.01	0.513325	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.513325	0.01	0.061149	2.286457	0.181226	0.01	55.58184		
	DUNGUN	0.01	0.01	0.01	0.587993	0.01	0.01	0.643711	49.66177	0.01	0.01	0.01	0.01	0.01	0.01	2.61904	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.237782	0.373917	0.01	0.01	0.01	10.65596	0.01	0.01	65.02018		
	MARANG	0.01	0.01	0.01	3.138925	0.01	0.01	0.67352	45.36311	0.01	0.01	0.01	0.01	0.01	0.01	8.497558	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.40935	4.717567	3.595505	0.537096	0.058442	1.823326	2.392338	0.01	0.01	71.40674	
	HULU TERENGGANU	0.01	0.01	0.01	1.059128	0.01	0.01	0.01	27.57059	0.01	0.01	0.01	0.01	0.01	0.01	2.503124	0.01	0.01	0.40935	0.01	0.01	0.01	0.01	0.01	0.073287	5.164609	0.01	0.01	2.503124	2.740324	1.907763	0.01	0.01	44.1513	
	KUALA TERENGGANU	0.01	0.022588	0.01	1.742629	0.01	0.01	0.468892	51.96153	0.01	0.01	0.01	0.01	0.01	0.01	5.654015	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.924633	6.189795	0.01	0.248793	0.066943	0.091902	0.01	0.01	67.58172		
	SETIU	0.01	0.01	0.01	0.341551	0.01	0.01	0.01	33.04342	0.01	0.01	0.01	0.01	0.01	0.01	1.665501	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	2.61904	1.269366	0.01	0.01	39.19887		
	BESUT	0.01	0.01	0.01	0.01	0.01	0.01	0.01	14.62886	0.01	0.01	0.01	0.01	0.01	0.01	3.436373	0.01	3.436373	0.01	0.01	0.01	0.01	0.01	0.01	0.01	1.213186	0.01	0.01	0.771489	0.01	0.01	0.01	2.286457	26.02274	
1999	DATE/BANDAR	1-Mar	2-Mar	3-Mar	4-Mar	5-Mar	6-Mar	7-Mar	8-Mar	9-Mar	10-Mar	11-Mar	12-Mar	13-Mar	14-Mar	15-Mar	16-Mar	17-Mar	18-Mar	19-Mar	20-Mar	21-Mar	22-Mar	23-Mar	24-Mar	25-Mar	26-Mar	27-Mar	28-Mar	29-Mar	30-Mar	31-Mar	TOTAL		
	KEMAMAN	1.328148	37.84984	0.01	0.96745	6.189795	24.69038	0.01	13.36261	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.198399	0.01	0.01	0.01	30.18322	0.01	31.58095	13.36261	16.75674	0.01	0.01	37.84984	214.51	
	DUNGUN	10.65596	21.013	0.01	0.01	0.01	11.13273	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	3.436373	0.01	0.01	0.01	0.087835	37.84984	0.615221	0.01	0.01	0.01	0.01	62.276	147.297	
	MARANG	11.14942	15.3063	0.01	0.01	0.15121	6.47428	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	3.762007	0.01	0.01	1.521339	20.08299	16.75674	0.01	0.01	0.01	0.01	49.66177	125.0861	
	HULU TERENGGANU	19.19414	16.01511	0.01	0.01	5.403775	2.978977	1.269366	3.762007	0.01	0.01	1.269366	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	6.189795	0.01	0.01	7.418484	13.36261	4.508773	0.01	0.01	0.01	0.01	51.96153	133.5239	
	KUALA TERENGGANU	19.19414	8.891068	0.01	0.15121	0.01	1.505744	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	2.867223	0.704711	1.328148	4.1185	20.08299	19.19414	0.01	0.01	0.01	0.01	31.58095	109.8188	
	SETIU	45.36311	8.497558	0.058442	0.01	0.01	0.027878	0.513325	0.01	0.01	0.01	0.513325	0.01	0.01	0.01	0.513325	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	13.36261	16.75674	12.77119	8.497558	0.01	0.01	0.01	0.01	10.65596	117.721	
	BESUT	6.776348	4.93603	0.031009	0.428306	0.01	0.024812	1.521339	0.01	0.01	0.01	1.521339	0.01	0.01	0.01	0.01	0.924633	0.01	0.01	0.01	0.01	0.01	1.823326	17.53272	21.013	13.36261	2.61904	0.01	0.01	0.01	0.01	1.907763	74.59227		
2000	DATE/BANDAR	1-Mar	2-Mar	3-Mar	4-Mar	5-Mar	6-Mar	7-Mar	8-Mar	9-Mar	10-Mar	11-Mar	12-Mar	13-Mar	14-Mar	15-Mar	16-Mar	17-Mar	18-Mar	19-Mar	20-Mar	21-Mar	22-Mar	23-Mar	24-Mar	25-Mar	26-Mar	27-Mar	28-Mar	29-Mar	30-Mar	31-Mar	TOTAL		
	KEMAMAN	2.392338	74.63789	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	1.521339	0.01	1.269366	0.428306	0.428306	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	8.891068	3.284284	89.45368	0.01	26.35036	31.58095	0.01	240.4379	
	DUNGUN	25.18412	45.36311	3.436373	0.01	0.01	0.01	0.01	0.01	2.286457	0.01	0.01	0.01	0.01	0.326435	0.01	1.108173	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.513325	8.121466	68.17734	74.63789	56.88547	0.01	3.595505	5.654015	295.4697	
	MARANG	31.58095	51.96153	13.9814	0.01	0.01	0.01	0.01	0.01	0.01	0.737344	0.01	0.01	0.01	0.01	0.01	0.091902	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	10.18434	168.5908	39.6026	34.57361	0.01	0.67352	7.418484	359.5965	
	HULU TERENGGANU	49.66177	43.35539	21.013	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.40935	1.328148	0.01	0.138122	0.01	0.01	0.01	0.01	0.643711	0.01	0.01	0.01	21.98607	14.62886	6.189795	97.93041	43.35539	18.34463	7.762021	0.272369	10.18434	337.3534	
	KUALA TERENGGANU	43.35539	54.36778	19.19414	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	1.907763	0.01	0.807217	0.01	0.587993	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	13.9814	193.1137	14.62886	19.19414	0.01	0.01	1.159492	362.4978
	SETIU	85.49458	43.35539	14.62886	0.01	0.01	0.01	0.01	0.066943	0.01	0.01	0.01	0.01	0.01	0.924633	1.328148	1.665501	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	45.36311	161.1292	13.9814	8.121466	0.01	0.01	0.01	376.2592	
	BESUT	89.45368	54.36778	28.84735	3.436373	0.01	2.392338	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	2.392338	0.01	3.138925	21.98607	140.6679	8.121466	31.58095	0.01	0.01	0.055856	386.6311	
2001	DATE/BANDAR	1-Mar	2-Mar	3-Mar	4-Mar	5-Mar	6-Mar	7-Mar	8-Mar	9-Mar	10-Mar	11-Mar	12-Mar	13-Mar	14-Mar	15-Mar	16-Mar	17-Mar	18-Mar	19-Mar	20-Mar	21-Mar	22-Mar	23-Mar	24-Mar	25-Mar	26-Mar	27-Mar	28-Mar	29-Mar	30-Mar	31-Mar	TOTAL		
	KEMAMAN	0.01	0.01	0.01	0.01	8.891068	54.36778	19.19414	0.01	0.01	4.30922	4.30922	3	3	7.418484	0.181226	0.01	0.01	0.01	0.01	0.01	20.08299	23.00422	0.01	0.44814	0.844598	3.762007	102.4654	9.302798	0.01	34.57361	18.34463	0.01	317.6295	
	DUNGUN	0.01	0.468892	0.01	0.01	1.742629	45.36311	3.138925	1.328148	1.328148	0.01	0.01	0.40935	0.40935	11.14942	0.120582	0.01	0.01	0.01	0.01	0.01	2.392338	6.189795	20.08299	3.138925	3.436373	0.01	31.58095	1.591789	12.77119	54.36778	41.43654	0.01	242.5572	
	MARANG	0.01	0.01	0.01	0.01	5.915843	23.00422	21.013	0.227258	0.227258	1.328148	1.328148	0.01	0.01	2.392338	0.587993	0.01	0.01	0.01	0.01	0.01	0.01	0.01	21.013	15.3063	3.284284	1.996108	0.01	13.9814	1.012251	25.18412	33.04342	20.08299	0.01	191.0581
	HULU TERENGGANU	0.01	0.01	0.01	0.01	2.867223	27.57059	8.497558	0.01	0.01	0.227258	0.227258	0.01	0.01	1.742629	0.01	0.01	0.01	3.762007	2.185261	1.907763	19.19414	11.14942	24.0695	0.01	10.18434	12.77119	4.508773	16.75674	34.57361	10.65596	0.01	192.9812		
	KUALA TERENGGANU	0.01	0.051021	0.01	0.01	9.733594	21.013	13.36261	2.740324	2.740324	10.65596	10.65596	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.807217	21.013	10.18434	5.403775	12.77119	2.867223	1.389652	2.740324	19.19414	16.75674	21.98607	0.01	186.1865	
	SETIU	0.01	0.01	0.01	0.01	13.36261	11.14942	3.595505	4.508773	4.508773	2.286457	2.286457	2.867223	2.867223	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	21.98607	6.189795	6.776348	0.01	0.207587	0.01	10.18434	45.36311	0.01	14.62886	0.615221	153.5238
	BESUT	0.01	0.01	3.93622	3.93622	7.090149	11.66573	8.121466	2.185261	2.185261	24.0695	24.0695	10.65596	10.65596	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	19.19414	2.185261	2.740324	8.121466	0.01	0.01	7.418484	89.45368	0.01	0.01	1.665501	239.4801

	DATE/BANDAR	1-Mar	2-Mar	3-Mar	4-Mar	5-Mar	6-Mar	7-Mar	8-Mar	9-Mar	10-Mar	11-Mar	12-Mar	13-Mar	14-Mar	15-Mar	16-Mar	17-Mar	18-Mar	19-Mar	20-Mar	21-Mar	22-Mar	23-Mar	24-Mar	25-Mar	26-Mar	27-Mar	28-Mar	29-Mar	30-Mar	31-Mar	TOTAL			
	2002	KEMAMAN	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	3.284284	97.93041	43.35539	6.776348	4.508773	0.01	0.01	0.01	0.01	0.01	0.01	0.01	156.1152	
DUNGUN		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	8.121466	140.6679	0.01	0.181226	0.67352	0.01	0.01	0.01	0.01	0.01	0.01	0.01	149.9142		
MARANG		0.01	1.012251	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	8.121466	122.805	0.67352	2.867223	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	135.7395		
HULU TERENGGANU		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	4.30922	117.3698	4.1185	0.01	0.01	3	0.01	0.01	0.01	0.01	0.01	0.01	129.0675		
KUALA TERENGGANU		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	7.418484	122.805	0.428306	0.537096	0.2172	0.01	0.01	0.01	0.01	0.01	0.01	0.01	131.6661		
SETIU		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	2.286457	1.591789	74.63789	15.3063	18.34463	0.01	0.01	0.01	0.01	0.01	0.01	0.01	112.4271		
BESUT		10.65596	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.643711	54.36778	18.34463	33.04342	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	117.3155		
2003	DATE/BANDAR	1-Mar	2-Mar	3-Mar	4-Mar	5-Mar	6-Mar	7-Mar	8-Mar	9-Mar	10-Mar	11-Mar	12-Mar	13-Mar	14-Mar	15-Mar	16-Mar	17-Mar	18-Mar	19-Mar	20-Mar	21-Mar	22-Mar	23-Mar	24-Mar	25-Mar	26-Mar	27-Mar	28-Mar	29-Mar	30-Mar	31-Mar	TOTAL			
	KEMAMAN	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	1.907763	0.01	13.36261	0.44814	0.173205	0.01	0.01	2.503124	0.01	0.01	0.01	3	0.01	0.01	0.01	0.01	15.3063	65.15989	97.93041	27.57059	6.189795	0.01	0.01	233.7518		
	DUNGUN	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	17.53272	0.01	1.521339	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	2.185261	0.01	41.43654	37.84984	78.09425	0.01	45.36311	11.14942	2.286457	237.6389		
	MARANG	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	54.36778	3.595505	1.159492	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	13.36261	3.762007	68.17734	54.36778	51.96153	4.717567	20.08299	11.14942	0.01	286.904		
	HULU TERENGGANU	0.01	0.01	0.01	0.01	31.58095	0.01	0.01	0.01	0.01	0.01	16.75674	30.18322	5.403775	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	5.654015	2.392338	65.15989	43.35539	21.98607	8.497558	6.776348	3.93622	1.389652	243.2522		
	KUALA TERENGGANU	5.164609	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	34.57361	0.01	5.654015	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	3.138925	37.84984	13.9814	43.35539	54.36778	39.6026	0.01	30.18322	23.00422	0.01	291.0756		
	SETIU	1.108173	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	24.0695	1.996108	5.654015	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	3.138925	0.01	0.01	37.84984	28.84735	36.17465	37.84984	14.62886	0.01	0.01	14.62886	4.717567	210.8537	
BESUT	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	9.733594	2.185261	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	3.436373	12.77119	8.497558	39.6026	36.17465	17.53272	0.01	0.01	0.01	34.57361	164.7276		
2004	DATE/BANDAR	1-Mar	2-Mar	3-Mar	4-Mar	5-Mar	6-Mar	7-Mar	8-Mar	9-Mar	10-Mar	11-Mar	12-Mar	13-Mar	14-Mar	15-Mar	16-Mar	17-Mar	18-Mar	19-Mar	20-Mar	21-Mar	22-Mar	23-Mar	24-Mar	25-Mar	26-Mar	27-Mar	28-Mar	29-Mar	30-Mar	31-Mar	TOTAL			
	KEMAMAN	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	1.328148	11.14942	9.302798	0.01	0.01	0.01	0.01	0.01	0.091902	0.01	0.643711	0.01	0.01	0.88371	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	10.65596	34.29565
	DUNGUN	0.01	0.01	0.01	0.01	0.01	0.01	11.14942	0.01	0.01	2.503124	0.01	0.181226	2.088543	10.18434	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	26.36665
	MARANG	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.587993	1.591789	0.01	0.01	0.01	68.17734	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.490606	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	71.11773
	HULU TERENGGANU	0.01	0.01	0.01	0.01	0.01	0.01	9.733594	0.704711	2.392338	0.01	0.01	0.01	34.57361	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	47.67425	
	KUALA TERENGGANU	0.01	0.01	0.01	0.01	0.01	0.01	5.654015	0.924633	0.051021	0.01	0.01	0.01	62.276	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	5.164609	0.01	0.01	0.01	0.01	0.01	74.33028	
	SETIU	0.01	0.01	0.01	0.01	0.01	0.01	12.77119	0.01	0.181226	0.01	0.01	0.181226	17.53272	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	30.93636	
BESUT	0.01	0.01	0.01	0.01	8.121466	0.01	26.35036	4.1185	0.01	0.01	0.01	0.15121	8.497558	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	47.49909		
2005	DATE/BANDAR	1-Mar	2-Mar	3-Mar	4-Mar	5-Mar	6-Mar	7-Mar	8-Mar	9-Mar	10-Mar	11-Mar	12-Mar	13-Mar	14-Mar	15-Mar	16-Mar	17-Mar	18-Mar	19-Mar	20-Mar	21-Mar	22-Mar	23-Mar	24-Mar	25-Mar	26-Mar	27-Mar	28-Mar	29-Mar	30-Mar	31-Mar	TOTAL			
	KEMAMAN	0.01	3.762007	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.326435	0.01	0.01	0.01	0.01	0.01	0.01	2.503124	0.01	0.01	0.01	0.01	0.01	1.269366	74.63789	43.35539	7.090149	43.35539	176.5298		
	DUNGUN	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	153.9978	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	5.654015	0.01	0.01	54.36778	7.762021	26.35036	21.013	0.01	0.01	269.395		
	MARANG	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	140.6679	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.807217	0.01	4.717567	122.805	7.418484	13.36261	24.0695	0.01	2.088543	316.1669		
	HULU TERENGGANU	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	93.59613	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	2.503124	117.3698	7.762021	20.08299	21.98607	0.01	0.01	263.5501			
	KUALA TERENGGANU	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	168.5908	0.01	0.01	0.01	0.01	0.01	0.01	0.01	1.059128	0.01	0.01	14.62886	93.59613	0.01	31.58095	5.654015	0.01	0.01	315.3599		
	SETIU	0.01	0.01	0.01	0.01	0.01	0.01	0.132009	0.01	0.01	0.01	0.01	0.01	0.01	0.01	168.5908	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	11.14942	74.63789	0.01	4.717567	2.392338	0.01	0.01	261.87		
BESUT	0.01	0.01	0.01	0.01	0.01	0.01	6.776348	0.01	0.01	0.01	0.615221	0.01	0.01	0.01	0.01	11.14942	0.01	0.01	0.01	0.01	0.01	0.01	6.776348	0.01	3.284284	0.01	9.733594	134.4422	11.66573	0.561968	0.01	9.733594	194.9487			

2006	DATE/BANDAR	1-Mar	2-Mar	3-Mar	4-Mar	5-Mar	6-Mar	7-Mar	8-Mar	9-Mar	10-Mar	11-Mar	12-Mar	13-Mar	14-Mar	15-Mar	16-Mar	17-Mar	18-Mar	19-Mar	20-Mar	21-Mar	22-Mar	23-Mar	24-Mar	25-Mar	26-Mar	27-Mar	28-Mar	29-Mar	30-Mar	31-Mar	TOTAL	
	KEMAMAN	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	1.269366	0.01	3.595505	10.18434	36.17465	6.189795	5.654015	4.93603	4.1185	0.01	0.341551	0.01	1.823326	74.49708
	DUNGUN	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	7.418484	7.418484	0.67352	0.01	54.36778	15.3063	0.01	0.96745	0.643711	0.88371	87.90943
	MARANG	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	5.164609	0.01	5.403775	0.771489	0.01	56.88547	10.65596	0.01	0.01	0.737344	3.762007	83.62066
	HULU TERENGGANU	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	1.665501	0.01	5.164609	0.01	8.497558	1.454005	3.138925	18.34463	17.53272	0.01	0.01	0.01	7.090149	63.11809
	KUALA TERENGGANU	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.428306	0.01	0.01	0.01	0.01	0.01	2.867223	0.01	4.508773	1.591789	0.01	59.51974	2.740324	0.01	0.01	5.403775	0.01	77.29993
	SETIU	0.01	0.01	1.996108	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	1.108173	0.01	1.159492	0.01	0.01	0.67352	0.01	0.01	0.01	3.93622	0.01	21.98607	21.98607	0.01	5.403775	0.01	0.01	0.844598	0.737344	5.915843	65.94722
	BESUT	1.213186	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	1.996108	8.121466	10.18434	23.00422	4.508773	4.508773	5.164609	0.01	1.996108	0.048763	3	63.94634
2007	DATE/BANDAR	1-Mar	2-Mar	3-Mar	4-Mar	5-Mar	6-Mar	7-Mar	8-Mar	9-Mar	10-Mar	11-Mar	12-Mar	13-Mar	14-Mar	15-Mar	16-Mar	17-Mar	18-Mar	19-Mar	20-Mar	21-Mar	22-Mar	23-Mar	24-Mar	25-Mar	26-Mar	27-Mar	28-Mar	29-Mar	30-Mar	31-Mar	TOTAL	
	KEMAMAN	1.742629	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.446125	0.01	0.01	1.521339	0.01	0.01	0.01	0.01	5.403775	17.53272	37.84984	1.269366	10.65596	21.98607	0.01	0.01	0.01	0.01	5.915843	10.18434	5.403775	120.1018
	DUNGUN	0.01	0.033948	0.01	0.01	0.01	0.01	0.01	0.01	0.01	4.1185	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	25.18412	49.66177	26.35036	13.36261	1.665501	0.01	0.01	0.01	0.01	1.213186	0.373917	135.5365	
	MARANG	0.01	0.428306	0.01	0.01	0.01	0.01	0.01	0.01	3.436373	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	26.35036	51.96153	21.013	16.01511	2.740324	0.01	0.01	0.01	4.1185	0.737344	12.20595	139.2168	
	HULU TERENGGANU	0.01	1.059128	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	9.302798	0.01	0.01	0.01	0.01	0.01	0.01	1.996108	30.18322	17.53272	24.0695	13.9814	4.93603	0.298179	0.01	1.454005	0.01	21.013	0.01	13.36261	139.3787	
	KUALA TERENGGANU	2.740324	0.01	0.01	0.01	0.01	0.01	0.01	0.01	4.508773	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.704711	9.302798	49.66177	41.43654	16.01511	0.01	0.01	0.01	0.01	0.01	0.01	0.01	17.53272	142.1327	
	SETIU	0.01	0.01	1.742629	0.01	0.01	0.01	0.01	0.01	0.01	3.284284	0.01	2.745148	0.01	0.01	0.01	0.01	0.01	0.01	0.01	1.665501	20.08299	28.84735	14.62886	10.18434	3	7.090149	0.01	16.01511	0.01	0.01	23.00422	132.4806	
	BESUT	0.01	0.01	0.01	0.01	5.164609	0.01	0.01	0.01	0.01	0.01	0.01	1.46783	0.01	0.01	0.01	0.01	0.01	0.01	1.108173	15.3063	65.15989	17.53272	7.418484	7.418484	0.01	3.284284	0.01	0.01	1.159492	0.96745	3.93622	130.1139	
2008	DATE/BANDAR	1-Mar	2-Mar	3-Mar	4-Mar	5-Mar	6-Mar	7-Mar	8-Mar	9-Mar	10-Mar	11-Mar	12-Mar	13-Mar	14-Mar	15-Mar	16-Mar	17-Mar	18-Mar	19-Mar	20-Mar	21-Mar	22-Mar	23-Mar	24-Mar	25-Mar	26-Mar	27-Mar	28-Mar	29-Mar	30-Mar	31-Mar	TOTAL	
	KEMAMAN	0.643711	0.01	0.091902	112.1751	78.09425	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.181226	0.01	0.01	7.090149	0.01	0.01	0.01	0.01	0.01	0.01	0.01	198.5264
	DUNGUN	0.01	0.01	0.01	49.66177	0.01	21.013	0.01	0.01	0.01	0.01	7.418484	2.185261	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	3.436373	0.01	0.01	0.091902	0.01	0.01	0.01	0.01	0.01	0.01	84.05679
	MARANG	0.537096	0.01	0.01	2.286457	0.01	5.915843	0.01	0.807217	0.01	0.01	0.357367	0.44814	0.01	2.867223	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	5.164609	0.01	8.121466	0.01	0.01	0.01	26.72542	
	HULU TERENGGANU	0.01	0.01	0.070043	0.01	0.01	5.403775	19.19414	7.418484	0.01	0.01	0.771489	1.108173	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	24.0695	0.561968	9.733594	16.01511	21.013	3.93622	8.891068	0.01	0.01	0.490606	118.8472	
	KUALA TERENGGANU	0.01	0.01	0.01	7.762021	0.01	0.01	0.01	0.091902	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	3.284284	0.01	0.01	1.521339	0.01	0.01	0.01	0.01	12.77119	0.01	0.01	0.01	12.92955	
	SETIU	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.44814	0.01	0.01	0.643711	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	12.77119	0.01	0.01	0.01	0.01	0.01	14.14304	
	BESUT	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	3.93622	0.01	0.01	0.01	0.01	0.01	17.53272	0.01	23.00422	5.654015	0.01	0.091902	0.01	0.01	1.591789	0.01	52.06086	
2009	DATE/BANDAR	1-Mar	2-Mar	3-Mar	4-Mar	5-Mar	6-Mar	7-Mar	8-Mar	9-Mar	10-Mar	11-Mar	12-Mar	13-Mar	14-Mar	15-Mar	16-Mar	17-Mar	18-Mar	19-Mar	20-Mar	21-Mar	22-Mar	23-Mar	24-Mar	25-Mar	26-Mar	27-Mar	28-Mar	29-Mar	30-Mar	31-Mar	TOTAL	
	KEMAMAN	3.762007	0.01	0.01	4.717567	0.428306	0.01	0.771489	13.36261	0.01	0.01	0.01	0.01	0.126166	0.771489	17.53272	3.93622	0.01	8.891068	23.00422	0.01	17.53272	0.01	0.468892	2.286457	12.77119	6.189795	1.269366	12.77119	1.269366	3.762007	0.01	135.7348	
	DUNGUN	0.01	0.01	0.01	0.01	5.403775	0.01	3.93622	0.01	9.302798	2.286457	3	0.01	4.30922	3.93622	14.62886	0.110145	0.01	0.807217	13.9814	4.508773	14.62886	0.01	0.01	18.34463	9.733594	0.01	0.01	9.733594	0.01	0.01	0.01	118.8018	
	MARANG	5.403775	0.01	0.01	0.100611	1.059128	0.01	7.762021	3.138925	3.138925	0.01	0.01	0.01	1.591789	7.762021	11.14942	0.01	0.091902	1.742629	12.77119	3	11.14942	0.01	0.01	24.0695	1.742629	1.454005	0.01	1.742629	0.01	0.01	0.01	99.00053	
	HULU TERENGGANU	8.497558	0.01	3.595505	0.357367	0.01	0.01	9.302798	2.61904	5.654015	0.01	0.01	0.01	11.66573	9.302798	2.740324	0.15121	0.181226	4.508773	0.01	0.01	2.740324	0.01	9.733594	28.84735	0.01	2.392338	0.01	0.01	0.01	3.762007	0.01	106.192	
	KUALA TERENGGANU	0.537096	0.01	0.01	0.01	8.497558	0.01	9.302798	3.284284	7.090149	0.01	0.01	0.01	0.01	9.302798	9.302798	0.01	0.01	13.9814	12.77119	3.595505	9.302798	0.01	0.01	18.34463	0.025873	0.01	0.01	0.025873	3.138925	3.284284	0.01	111.938	
	SETIU	4.508773	3.762007	0.01	0.01	3.93622	0.01	11.14942	0.01	4.508773	0.01	0.01	0.01	0.01	11.14942	12.20595	0.01	0.01	28.84735	10.65596	0.01	0.01	28.84735	0.01	39.6026	0.053384	2.867223	0.01	0.053384	1.389652	4.508773	0.01	151.5549	
	BESUT	31.58095	3.436373	1.159492	0.01	0.01	0.01	13.9814	0.01	3.284284	0.01	3.762007	0.01	0.01	13.9814	9.302798	0.01	1.591789	68.17734	6.776348	3.284284	9.302798	0.01	0.01	56.88547	0.587993	5.654015	0.01	0.587993	0.01	2.185261	0.01	235.652	

2010	DATE/BANDAR	1-Mar	2-Mar	3-Mar	4-Mar	5-Mar	6-Mar	7-Mar	8-Mar	9-Mar	10-Mar	11-Mar	12-Mar	13-Mar	14-Mar	15-Mar	16-Mar	17-Mar	18-Mar	19-Mar	20-Mar	21-Mar	22-Mar	23-Mar	24-Mar	25-Mar	26-Mar	27-Mar	28-Mar	29-Mar	30-Mar	31-Mar	TOTAL		
	KEMAMAN	0.01	0.01	2.867223	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.055856	0.01	0.01	0.807217	0.01	0.01	1.389652	0.01	27.57059	85.49458	0.110145	0.01	0.01	0.01	0.01	0.01	0.01	0.01	2.286457	0.01	120.8117		
	DUNGUN	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	7.090149	1.521339	0.01	0.01	0.01	0.01	0.01	1.389652	30.18322	13.9814	0.01	0.01	0.01	0.01	0.01	2.61904	4.93603	3.138925	0.01	65.08976		
	MARANG	0.01	0.01	3.284284	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	1.269366	0.01	0.01	0.01	0.01	0.01	0.01	8.891068	21.98607	43.35539	10.18434	0.01	0.01	0.01	0.01	4.1185	0.01	13.9814	0.01	107.3004		
	HULU TERENGGANU	0.01	0.01	1.454005	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	5.403775	15.3063	0.01	0.01	0.01	0.01	4.717567	17.53272	28.84735	6.776348	0.01	0.01	0.01	0.01	0.01	0.01	21.013	0.01	101.2811		
	KUALA TERENGGANU	0.01	0.01	4.508773	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.44814	19.19414	13.36261	0.01	0.01	0.01	0.01	4.30922	2.867223	6.476435	4.30922	0.01	55.70576		
	SETIU	0.01	0.01	7.418484	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.615221	0.01	7.762021	0.01	0.01	0.01	0.01	0.01	0.01	5.164609	0.67352	7.090149	49.66177	0.01	78.62578	
	BESUT	0.01	0.01	3.436373	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	5.915843	8.891068	0.01	0.01	0.01	0.165539	0.01	3.138925	0.01	5.915843	0.01	0.01	2.088543	0.01	0.01	2.088543	0.01	49.66177	0.01	81.52245	
2011	DATE/BANDAR	1-Mar	2-Mar	3-Mar	4-Mar	5-Mar	6-Mar	7-Mar	8-Mar	9-Mar	10-Mar	11-Mar	12-Mar	13-Mar	14-Mar	15-Mar	16-Mar	17-Mar	18-Mar	19-Mar	20-Mar	21-Mar	22-Mar	23-Mar	24-Mar	25-Mar	26-Mar	27-Mar	28-Mar	29-Mar	30-Mar	31-Mar	TOTAL		
	KEMAMAN	47.46379	0.01	0.01	0.01	0.01	0.01	0.01	0.01	8.497558	0.01	0.01	56.88547	12.20595	0.924633	0.01	0.01	97.93041	5.915843	3	0.01	8.121466	0.01	17.53272	0.01	26.35036	5.915843	3.436373	6.189795	85.49458	8.497558	4.717567	399.2199		
	DUNGUN	85.49458	0.01	0.01	0.01	0.01	0.01	0.01	9.302798	12.77119	0.01	0.01	7.762021	20.08299	0.96745	0.01	1.823326	47.46379	17.53272	0.01	0.01	0.01	3	19.19414	5.164609	102.4654	18.34463	3.284284	7.418484	51.96153	68.17734	17.53272	499.864		
	MARANG	39.6026	0.01	1.907763	0.01	0.01	0.01	0.01	2.286457	31.58095	0.01	0.01	4.30922	31.58095	0.01	0.01	8.121466	47.46379	20.08299	0.01	0.01	0.01	7.418484	41.43654	4.30922	85.49458	30.18322	43.35539	23.00422	33.04342	122.805	19.19414	597.3004		
	HULU TERENGGANU	41.43654	0.01	0.01	0.01	0.01	0.01	0.01	6.776348	161.1292	6.776348	0.01	8.497558	30.18322	0.01	0.01	21.013	21.013	0.01	0.01	0.01	17.53272	7.418484	21.98607	8.497558	102.4654	21.98607	17.53272	5.403775	21.013	68.17734	7.418484	596.3768		
	KUALA TERENGGANU	9.302798	0.01	3.595505	0.01	0.01	0.01	0.01	0.844598	33.04342	0.01	0.01	0.391233	21.013	1.591789	0.01	5.915843	27.57059	15.3063	0.01	0.01	1.213186	0.924633	17.53272	6.189795	102.4654	134.4422	31.58095	21.98607	30.18322	117.3698	37.84984	620.4128		
	SETIU	4.508773	0.01	0.643711	0.01	0.01	0.01	0.01	0.181226	93.59613	0.01	0.01	5.164609	19.19414	0.01	0.01	8.121466	25.18412	0.01	0.01	3.284284	0.01	0.01	21.98607	0.326435	65.15989	68.17734	62.276	21.98607	43.35539	117.3698	93.59613	654.2416		
	BESUT	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	112.1751	0.01	1.823326	10.65596	37.84984	0.01	0.01	5.915843	31.58095	0.01	0.01	0.01	0.01	6.189795	23.00422	18.34463	71.33451	49.66177	21.013	12.20595	31.58095	112.1751	128.4919	674.1529		
2012	DATE/BANDAR	1-Mar	2-Mar	3-Mar	4-Mar	5-Mar	6-Mar	7-Mar	8-Mar	9-Mar	10-Mar	11-Mar	12-Mar	13-Mar	14-Mar	15-Mar	16-Mar	17-Mar	18-Mar	19-Mar	20-Mar	21-Mar	22-Mar	23-Mar	24-Mar	25-Mar	26-Mar	27-Mar	28-Mar	29-Mar	30-Mar	31-Mar	TOTAL		
	KEMAMAN	0.01	2.867223	25.18412	21.98607	0.01	1.823326	0.01	51.96153	12.77119	0.01	0.01	1.996108	49.66177	14.62886	4.1185	0.924633	0.924633	1.521339	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	85.49458	276.0339	
	DUNGUN	0.01	14.62886	89.45368	6.189795	0.01	0.01	0.01	0.01	24.0695	0.01	3.762007	12.20595	65.15989	30.18322	0.01	0.01	0.01	2.286457	0.01	1.454005	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	12.77119	262.3646
	MARANG	0.01	0.272369	161.1292	11.66573	0.01	0.01	0.01	0.01	27.57059	0.01	12.77119	8.891068	23.00422	27.57059	0.01	0.01	0.01	0.01	3	0.01	0.01	0.01	0.01	0.01	1.665501	0.01	0.01	0.01	0.01	0.01	0.01	6.189795	283.9302	
	HULU TERENGGANU	0.01	0.844598	193.1137	10.18434	0.01	6.776348	0.01	0.01	7.090149	0.844598	1.108173	5.164609	25.18412	33.04342	0.01	0.01	0.01	2.740324	0.01	0.01	2.61904	0.01	0.01	1.213186	0.01	0.561968	3.595505	0.01	0.01	0.01	5.164609	299.3986		
	KUALA TERENGGANU	0.01	10.65596	221.2035	16.01511	0.01	0.01	0.01	0.01	13.36261	0.01	4.717567	0.01	0.771489	16.01511	0.01	0.01	0.01	0.561968	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.704711	284.228	
	SETIU	0.01	24.0695	193.1137	71.33451	0.01	3	0.01	0.01	10.65596	3.138925	1.742629	0.01	2.61904	5.164609	0.01	0.96745	0.96745	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.428306	0.01	0.01	0.01	0.01	0.01	0.01	317.392		
	BESUT	0.024728	17.53272	117.3698	43.35539	0.01	0.01	0.01	0.01	21.013	5.164609	3.762007	0.01	0.40935	5.654015	1.328148	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	5.164609	0.737344	0.01	0.01	0.01	221.7057	
2013	DATE/BANDAR	1-Mar	2-Mar	3-Mar	4-Mar	5-Mar	6-Mar	7-Mar	8-Mar	9-Mar	10-Mar	11-Mar	12-Mar	13-Mar	14-Mar	15-Mar	16-Mar	17-Mar	18-Mar	19-Mar	20-Mar	21-Mar	22-Mar	23-Mar	24-Mar	25-Mar	26-Mar	27-Mar	28-Mar	29-Mar	30-Mar	31-Mar	TOTAL		
	KEMAMAN	59.51974	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	59.81974		
	DUNGUN	147.182	0.01	0.01	0.01	0.01	0.01	3.93622	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	7.090149	6.776348	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	3.284284	0.01	0.01	168.529		
	MARANG	332.4522	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	6.776348	26.35036	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	3.138925	0.01	0.01	368.9878		
	HULU TERENGGANU	303.6756	0.01	0.01	0.01	0.01	0.01	0.01	0.44814	0.01	0.01	0.01	0.01	0.01	0.01	0.01	13.36261	17.53272	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	335.2891		
	KUALA TERENGGANU	277.3899	0.01	0.01	0.01	0.01	0.01	0.01	0.06398	3.436373	0.01	0.01	0.01	0.01	0.01	0.01	3.436373	30.18322	0.01	0.01	0.01	0.01	0.01	0.01	1.996108	0.01	0.01	0.01	0.01	2.740324	0.01	0.01	319.4862		
	SETIU	161.1292	5.654015	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	13.9814	13.9814	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	195.016		
	BESUT	81.71069	4.1185	0.01	0.01	0.01	0.01	0.01	0.01	0.01	4.1185	0.01	0.01	0.01	0.01	1.742629	0.01	8.121466	8.121466	0.01	0.01	0.01	4.1185	0.01	2.503124	0.01	0.01	0.01	0.01	0.01	0.01	4.1185	118.8934		

**APRIL**

		APRIL																																
	DATE/BANDAR	1-Apr	2-Apr	3-Apr	4-Apr	5-Apr	6-Apr	7-Apr	8-Apr	9-Apr	10-Apr	11-Apr	12-Apr	13-Apr	14-Apr	15-Apr	16-Apr	17-Apr	18-Apr	19-Apr	20-Apr	21-Apr	22-Apr	23-Apr	24-Apr	25-Apr	26-Apr	27-Apr	28-Apr	29-Apr	30-Apr	TOTAL		
1998	KEMAMAN	7.418484	0.01	15.3063	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	1.454005	0.01	24.44879	
	DUNGUN	0.490606	0.01	9.302798	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	3.93622	0.01	0.704711	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	11.66573	0.01	26.35007	
	MARANG	0.67352	0.01	15.3063	0.01	0.01	0.01	0.01	2.286457	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	3.93622	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.357367	0.01	22.80986	
	HULU TERENGGANU	0.2172	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	4.508773	0.01	5.005973		
	KUALA TERENGGANU	0.01	0.01	9.302798	0.01	0.01	0.01	0.01	0.01	4.508773	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.15121	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	14.23278		
	SETIU	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	8.497558	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	8.787558		
	BESUT	4.717567	0.01	4.1185	0.051021	0.100611	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.024728	0.01	0.01	0.01	0.01	0.01	0.01	3.762007	0.01	0.01	13.01443		
		DATE/BANDAR	1-Apr	2-Apr	3-Apr	4-Apr	5-Apr	6-Apr	7-Apr	8-Apr	9-Apr	10-Apr	11-Apr	12-Apr	13-Apr	14-Apr	15-Apr	16-Apr	17-Apr	18-Apr	19-Apr	20-Apr	21-Apr	22-Apr	23-Apr	24-Apr	25-Apr	26-Apr	27-Apr	28-Apr	29-Apr	30-Apr	TOTAL	
1999	KEMAMAN	0.01	0.44814	0.01	5.164609	0.01	12.77119	0.01	0.01	12.77119	6.776348	0.01	7.418484	3	5.654015	11.14942	0.15121	0.15121	25.18412	8.497558	14.62886	0.248793	19.19414	12.77119	0.01	51.96153	1.213186	56.88547	0.01	12.77119	2.392338	271.2842		
	DUNGUN	0.01	0.01	0.01	1.665501	0.01	11.14942	0.01	0.01	0.01	0.040687	1.454005	0.357367	0.01	21.98607	1.907763	0.643711	4.1185	8.121466	12.20595	0.01	21.013	1.012251	0.01	37.84984	3.762007	5.164609	0.01	68.17734	54.36778	255.1173			
	MARANG	0.01	0.01	0.357367	0.260313	0.260313	9.733594	0.298179	0.924633	0.01	0.615221	4.93603	6.776348	0.01	0.01	34.57361	0.326435	11.14942	12.77119	11.14942	10.18434	1.328148	24.0695	2.286457	0.01	4.93603	1.328148	0.01	8.891068	89.45368	31.58095	268.2604		
	HULU TERENGGANU	0.01	0.01	0.01	0.01	0.01	7.762021	1.059128	2.867223	0.01	4.1185	6.189795	34.57361	0.01	0.01	17.53272	0.428306	17.53272	15.3063	10.18434	12.20595	0.01	7.762021	0.844598	0.01	3.138925	0.704711	0.01	6.189795	68.17734	10.65596	227.344		
	KUALA TERENGGANU	0.01	0.01	0.042571	7.418484	0.01	11.14942	3.762007	11.14942	0.01	0.01	2.740324	13.36261	0.01	5.915843	21.013	0.042571	47.46379	16.75674	18.34463	2.867223	0.01	19.19414	4.93603	0.01	0.67352	0.01	0.01	8.121466	13.36261	1.389652	209.806		
	SETIU	0.01	0.01	0.67352	0.110145	0.01	1.996108	5.915843	39.6026	0.01	0.01	0.88371	4.508773	0.01	23.00422	11.66573	0.01	34.57361	13.9814	9.733594	1.742629	0.01	8.121466	4.508773	0.01	0.01	0.01	0.01	30.18322	3.762007	7.762021	202.8494		
	BESUT	0.01	0.01	0.237782	0.01	0.01	0.01	6.189795	51.96153	9.733594	0.01	0.01	0.144518	3	7.762021	7.418484	0.01	11.14942	47.46379	7.090149	5.915843	0.01	8.497558	6.476435	0.01	0.01	0.01	0.01	0.96745	6.189795	1.742629	182.0708		
		DATE/BANDAR	1-Apr	2-Apr	3-Apr	4-Apr	5-Apr	6-Apr	7-Apr	8-Apr	9-Apr	10-Apr	11-Apr	12-Apr	13-Apr	14-Apr	15-Apr	16-Apr	17-Apr	18-Apr	19-Apr	20-Apr	21-Apr	22-Apr	23-Apr	24-Apr	25-Apr	26-Apr	27-Apr	28-Apr	29-Apr	30-Apr	TOTAL	
2000	KEMAMAN	0.01	0.01	16.01511	0.01	4.508773	0.01	0.01	0.01	0.01	0.01	1.521339	25.18412	25.18412	6.776348	0.01	16.01511	0.01	0.01	0.01	0.01	0.01	41.43654	2.392338	18.34463	3.436373	0.01	0.01	0.01	6.776348	167.7712			
	DUNGUN	0.01	0.01	0.01	0.01	7.090149	0.01	1.996108	0.01	0.01	0.01	3.762007	16.75674	20.08299	1.108173	0.01	0.01	28.84735	0.01	0.01	0.513325	0.01	2.392338	0.01	65.15989	1.213186	0.01	1.591789	0.01	0.01	0.737344	151.4214		
	MARANG	0.01	0.01	0.01	0.165539	2.867223	0.01	1.269366	0.844598	0.01	0.01	0.40935	24.0695	13.9814	3.436373	0.96745	0.96745	4.30922	0.01	0.01	0.373917	0.807217	0.844598	0.924633	20.08299	4.30922	0.01	2.088543	0.01	0.01	4.44814	83.27673		
	HULU TERENGGANU	0.01	1.012251	0.01	0.01	0.260313	0.01	0.01	0.01	0.01	0.284982	6.476435	31.58095	4.508773	1.389652	0.01	0.01	4.717567	0.01	0.01	0.67352	1.907763	0.01	1.269366	51.96153	1.389652	0.01	2.503124	0.01	0.01	0.01	110.0959		
	KUALA TERENGGANU	0.01	0.924633	0.01	0.01	0.01	3.436373	0.207587	0.924633	0.01	0.01	0.01	14.62886	9.302798	2.61904	0.01	0.737344	0.207587	0.01	0.01	0.01	0.272369	0.01	3.284284	24.0695	4.1185	0.01	5.915843	0.01	0.01	3	73.79935		
	SETIU	0.01	0.01	0.01	0.01	0.01	1.521339	0.357367	0.237782	0.01	0.01	0.01	13.36261	12.77119	0.513325	18.34463	19.19414	5.915843	0.01	0.01	0.01	0.01	0.01	0.704711	24.0695	0.357367	0.01	3.138925	0.01	0.01	0.357367	101.0061		
	BESUT	0.01	0.01	0.01	0.01	0.01	0.01	0.326435	0.01	2.503124	0.01	0.01	25.18412	7.090149	3	43.35539	43.35539	4.93603	0.01	0.01	1.159492	0.01	0.01	19.19414	21.013	0.01	0.01	1.907763	0.01	0.284982	0.771489	174.2415		
		DATE/BANDAR	1-Apr	2-Apr	3-Apr	4-Apr	5-Apr	6-Apr	7-Apr	8-Apr	9-Apr	10-Apr	11-Apr	12-Apr	13-Apr	14-Apr	15-Apr	16-Apr	17-Apr	18-Apr	19-Apr	20-Apr	21-Apr	22-Apr	23-Apr	24-Apr	25-Apr	26-Apr	27-Apr	28-Apr	29-Apr	30-Apr	TOTAL	
2001	KEMAMAN	0.01	0.01	0.01	0.01	0.01	0.587993	0.01	1.389652	0.01	0.01	0.01	0.01	0.01	19.19414	0.01	1.269366	0.01	1.742629	0.01	0.01	0.01	0.01	1.591789	0.01	9.302798	8.497558	2.185261	1.591789	85.49458	7.762021	140.7896		
	DUNGUN	0.01	0.028325	0.01	0.01	0.01	0.01	0.01	0.01	0.357367	4.508773	0.01	0.01	2.61904	19.19414	0.01	12.77119	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	4.717567	0.924633	4.1185	2.61904	4.93603	54.36778	2.185261	113.5176	
	MARANG	0.01	0.01	0.01	0.40935	0.01	0.01	5.654015	0.01	0.01	0.924633	0.01	0.01	0.01	45.36311	1.012251	18.34463	0.44814	0.01	0.01	0.01	0.01	0.01	1.742629	0.01	0.01	2.867223	0.01	5.403775	97.93041	2.185261	182.4654		
	HULU TERENGGANU	1.996108	0.01	0.01	0.01	1.996108	0.01	1.996108	0.01	0.01	0.070043	0.01	0.01	0.01	18.34463	0.01	19.19414	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	2.185261	0.01	6.476435	74.63789	0.01	127.1067	
	KUALA TERENGGANU	0.01	0.40935	0.01	2.503124	1.159492	2.740324	0.01	0.01	0.01	0.643711	0.01	0.01	1.012251	34.57361	0.01	13.36261	2.392338	0.01	0.01	0.01	0.01	0.01	0.126166	0.01	0.587993	1.907763	0.01	3.436373	112.1751	0.018013	177.1982		
	SETIU	0.01	0.028325	0.01	7.418484	3	4.30922	0.01	0.01	1.389652	0.042571	0.01	0.01	0.01	13.9814	0.01	4.508773	11.66573	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.042571	4.508773	0.115245	6.189795	74.63789	0.96745	132.9559
	BESUT	0.01	0.017215	0.01	13.9814	0.01	5.403775	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	8.121466	2.61904	3.595505	4.1185	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	1.591789	11.14942	51.96153	2.61904	105.3687	

	DATE/BANDAR	1-Apr	2-Apr	3-Apr	4-Apr	5-Apr	6-Apr	7-Apr	8-Apr	9-Apr	10-Apr	11-Apr	12-Apr	13-Apr	14-Apr	15-Apr	16-Apr	17-Apr	18-Apr	19-Apr	20-Apr	21-Apr	22-Apr	23-Apr	24-Apr	25-Apr	26-Apr	27-Apr	28-Apr	29-Apr	30-Apr	TOTAL		
	2002	KEMAMAN	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	54.36778	25.18412	25.18412	0.01	0.01	0.01	0.01	1.591789	0.01	0.96745	0.01	0.01	0.01	8.121466	0.391233	11.14942	0.01	24.0695	151.2369
DUNGUN		0.01	0.01	0.01	0.428306	1.823326	0.01	0.01	0.01	0.01	0.01	13.9814	0.01	0.01	0.01	11.14942	28.84735	28.84735	0.01	0.01	0.01	0.01	0.189618	0.01	0.01	0.01	0.01	1.328148	5.403775	33.04342	3.93622	56.88547	186.0438	
MARANG		0.01	0.01	0.01	3.595505	0.01	1.907763	0.513325	0.01	11.14942	18.34463	0.01	0.01	0.01	23.00422	24.0695	24.0695	0.01	0.01	0.01	0.01	1.328148	7.090149	0.01	0.01	0.01	1.269366	0.67352	31.58095	10.18434	51.96153	210.8919		
HULU TERENGGANU		0.01	0.01	0.01	0.01	0.01	4.30922	6.776348	2.503124	6.776348	49.66177	0.01	0.01	0.01	10.18434	11.66573	11.66573	0.01	0.01	0.01	0.01	2.286457	0.01	0.01	0.01	0.01	3.93622	0.01	10.65596	1.521339	21.98607	144.0987		
KUALA TERENGGANU		0.01	0.01	0.01	3.595505	0.01	0.01	0.01	0.01	0.100611	7.418484	1.742629	0.01	0.01	25.18412	21.013	21.013	0.01	0.01	0.01	0.01	0.066943	0.01	0.01	1.012251	0.01	0.01	0.537096	36.17465	11.66573	62.276	191.97		
SETIU		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	12.77119	1.996108	0.01	0.01	6.189795	10.65596	10.65596	0.01	0.01	0.01	0.01	0.032445	0.01	0.01	0.01	0.01	0.01	0.227258	0.326435	11.14942	0.01	43.35539	97.55997	
BESUT		0.01	0.01	0.01	0.01	0.01	0.01	1.591789	0.01	0.01	6.476435	0.01	0.01	0.01	16.75674	7.762021	7.762021	0.01	0.01	0.01	0.01	0.01	1.742629	0.01	0.01	0.01	0.01	3.284284	0.01	7.762021	1.996108	18.34463	73.67868	
2003	DATE/BANDAR	1-Apr	2-Apr	3-Apr	4-Apr	5-Apr	6-Apr	7-Apr	8-Apr	9-Apr	10-Apr	11-Apr	12-Apr	13-Apr	14-Apr	15-Apr	16-Apr	17-Apr	18-Apr	19-Apr	20-Apr	21-Apr	22-Apr	23-Apr	24-Apr	25-Apr	26-Apr	27-Apr	28-Apr	29-Apr	30-Apr	TOTAL		
	KEMAMAN	26.35036	68.17734	0.01	2.088543	1.591789	0.01	0.01	19.19414	0.138122	19.19414	11.66573	0.01	0.01	8.891068	0.01	0.01	68.17734	3.762007	7.090149	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.044542	0.01	236.5533		
	DUNGUN	43.35539	47.46379	0.01	0.01	1.059128	0.01	5.654015	14.62886	0.01	0.01	13.36261	0.01	0.01	0.924633	0.01	0.01	62.276	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.284982	0.01	189.2194	
	MARANG	0.01	71.33451	0.01	0.01	0.01	0.01	0.207587	3.138925	0.01	0.01	27.57059	7.418484	0.01	0.01	0.01	0.01	9.733594	11.14942	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	3.284284	0.01	134.0574	
	HULU TERENGGANU	26.35036	68.17734	2.61904	4.30922	2.503124	0.01	0.01	0.01	0.01	37.84984	3.284284	4.1185	0.01	0.01	0.01	11.14942	15.3063	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.88371	0.01	176.7411
	KUALA TERENGGANU	21.98607	51.96153	0.01	0.01	0.01	0.01	0.01	5.164609	0.01	0.01	10.65596	10.65596	0.01	0.01	0.01	0.01	12.20595	7.762021	0.01	0.01	0.01	0.01	8.121466	0.01	0.01	0.01	0.01	0.01	3.595505	0.01	132.3191		
	SETIU	54.36778	26.35036	0.01	0.01	0.01	1.742629	0.01	0.01	0.01	0.01	56.88547	31.58095	0.01	0.01	0.01	0.01	3.138925	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	1.907763	0.01	3.284284	0.01	0.01	179.4782	
BESUT	45.36311	19.19414	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	24.0695	23.00422	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.298179	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	3.138925	115.3081		
2004	DATE/BANDAR	1-Apr	2-Apr	3-Apr	4-Apr	5-Apr	6-Apr	7-Apr	8-Apr	9-Apr	10-Apr	11-Apr	12-Apr	13-Apr	14-Apr	15-Apr	16-Apr	17-Apr	18-Apr	19-Apr	20-Apr	21-Apr	22-Apr	23-Apr	24-Apr	25-Apr	26-Apr	27-Apr	28-Apr	29-Apr	30-Apr	TOTAL		
	KEMAMAN	0.01	0.01	5.654015	0.01	26.35036	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	1.823326	0.01	1.996108	0.01	0.01	0.01	0.01	0.01	9.733594	1.823326	0.01	0.01	0.01	14.62886	8.891068	71.12065	
	DUNGUN	0.01	0.01	0.96745	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	1.059128	0.06398	5.164609	0.01	0.01	39.6026	1.996108	49.09388	
	MARANG	0.01	0.01	0.807217	0.01	1.823326	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	3	0.227258	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	5.403775	0.01	5.164609	0.01	2.185261	16.01511	4.93603	39.77259
	HULU TERENGGANU	0.01	0.01	4.93603	0.01	0.01	0.01	0.01	0.01	0.01	3.436373	0.01	0.01	0.01	0.01	7.762021	0.144518	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	9.302798	11.66573	6.776348	0.01	0.01	2.185261	11.14942	57.5685
	KUALA TERENGGANU	0.01	0.01	4.93603	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	2.185261	0.01	1.328148	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	5.403775	0.01	3.138925	0.01	1.159492	20.08299	1.907763	40.36238
	SETIU	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	1.996108	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	1.521339	0.01	15.3063	2.286457	21.3702	
BESUT	8.497558	0.01	0.01	1.389652	0.01	0.01	0.01	0.01	0.01	0.01	0.01	1.012251	0.01	0.01	0.01	1.108173	0.01	0.01	0.01	0.01	0.01	0.01	0.01	1.996108	5.654015	0.01	0.01	0.01	0.01	10.18434	9.733594	39.79569		
2005	DATE/BANDAR	1-Apr	2-Apr	3-Apr	4-Apr	5-Apr	6-Apr	7-Apr	8-Apr	9-Apr	10-Apr	11-Apr	12-Apr	13-Apr	14-Apr	15-Apr	16-Apr	17-Apr	18-Apr	19-Apr	20-Apr	21-Apr	22-Apr	23-Apr	24-Apr	25-Apr	26-Apr	27-Apr	28-Apr	29-Apr	30-Apr	TOTAL		
	KEMAMAN	0.01	0.01	0.01	30.18322	13.9814	49.66177	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.844598	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	8.891068	8.497558	0.01	0.181226	0.01	0.01	112.4708	
	DUNGUN	0.01	5.654015	0.01	71.33451	0.01	1.108173	16.01511	0.01	0.01	0.01	0.01	0.01	0.01	0.01	10.65596	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	8.497558	3.284284	0.01	0.01	0.01	0.01	116.7796	
	MARANG	0.01	0.01	7.090149	49.66177	0.01	0.373917	19.19414	0.01	4.508773	0.01	0.01	0.01	0.01	0.01	8.497558	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	89.56631	
	HULU TERENGGANU	0.01	0.391233	7.418484	24.0695	5.915843	0.01	7.418484	0.01	10.18434	3.284284	0.01	0.01	0.01	0.01	10.18434	4.508773	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	2.503124	0.01	0.01	76.07841
	KUALA TERENGGANU	0.01	0.01	4.717567	71.33451	0.01	0.01	0.01	0.01	3.138925	0.01	0.01	0.01	0.01	1.996108	1.591789	0.01	0.01	0.01	0.01	0.01	0.01	0.03552	0.01	0.01	0.01	0.01	0.01	0.01	2.088543	0.01	7.418484	92.54145	
	SETIU	0.01	9.302798	0.01	37.84984	0.01	0.01	0.01	0.01	1.907763	0.01	0.01	0.01	0.01	2.392338	5.164609	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	2.503124	4.1185	63.46897	
BESUT	0.01	0.01	3.762007	37.84984	0.01	0.01	0.01	0.01	1.665501	0.01	0.01	0.01	0.01	0.01	4.508773	0.01	0.01	0.01	0.01	0.01	1.012251	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	3.138925	52.1773		

2006	DATE/BANDAR	1-Apr	2-Apr	3-Apr	4-Apr	5-Apr	6-Apr	7-Apr	8-Apr	9-Apr	10-Apr	11-Apr	12-Apr	13-Apr	14-Apr	15-Apr	16-Apr	17-Apr	18-Apr	19-Apr	20-Apr	21-Apr	22-Apr	23-Apr	24-Apr	25-Apr	26-Apr	27-Apr	28-Apr	29-Apr	30-Apr	TOTAL		
	KEMAMAN	68.17734	0.01	0.01	0.01	0.01	0.01	5.654015	15.3063	1.907763	6.776348	1.059128	15.3063	0.01	1.823326	6.776348	0.01	5.654015	11.14942	0.01	0.01	0.01	1.059128	13.36261	18.34463	1.823326	0.01	0.01	0.01	0.01	0.01	10.18434	184.5043	
	DUNGUN	0.01	0.01	0.01	0.01	0.01	0.01	0.01	24.0695	0.01	0.01	0.227258	0.01	0.01	37.84984	0.341551	68.17734	24.0695	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	154.975	
	MARANG	3.436373	0.01	0.01	0.01	0.01	0.01	0.513325	4.93603	0.01	3.284284	0.01	0.01	0.67352	11.66573	4.508773	71.33451	4.93603	0.01	13.9814	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	119.47	
	HULU TERENGGANU	7.762021	0.01	0.01	0.01	0.01	0.01	7.418484	2.503124	0.01	17.53272	0.01	0.01	1.521339	18.34463	2.088543	21.98607	15.3063	0.01	10.18434	0.01	0.01	2.185261	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	107.0228	
	KUALA TERENGGANU	0.01	0.561968	0.01	0.01	0.01	0.01	0.01	12.20595	0.01	0.01	0.01	0.01	0.01	0.01	1.269366	112.1751	3.93622	0.01	0.01	0.01	0.01	1.159492	0.046605	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	131.5847	
	SETIU	0.01	0.01	0.01	0.01	0.01	0.01	2.185261	21.98607	0.01	10.65596	0.01	0.01	0.01	0.01	0.615221	41.43654	0.01	0.01	2.088543	0.01	0.01	0.01	3.436373	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	82.63397	
	BESUT	0.01	0.01	0.01	0.88371	0.01	0.01	3.138925	9.302798	3.284284	3	0.01	0.01	0.01	10.18434	3.93622	21.013	0.01	0.01	0.67352	3	3	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	61.60679
2007	DATE/BANDAR	1-Apr	2-Apr	3-Apr	4-Apr	5-Apr	6-Apr	7-Apr	8-Apr	9-Apr	10-Apr	11-Apr	12-Apr	13-Apr	14-Apr	15-Apr	16-Apr	17-Apr	18-Apr	19-Apr	20-Apr	21-Apr	22-Apr	23-Apr	24-Apr	25-Apr	26-Apr	27-Apr	28-Apr	29-Apr	30-Apr	TOTAL		
	KEMAMAN	2.088543	0.01	0.01	0.01	0.01	0.01	11.14942	0.01	0.01	16.75674	0.01	4.1185	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	4.1185	1.665501	0.01	0.01	0.158213	33.04342	28.84735	41.43654	8.121466	151.6942		
	DUNGUN	1.108173	0.01	0.01	0.01	0.01	0.01	0.01	0.01	15.3063	12.20595	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	10.65596	3.138925	93.59613	21.98607	41.43654	0.01	199.6541	
	MARANG	1.665501	0.01	0.01	0.01	0.01	0.01	0.01	0.01	30.18322	12.77119	0.01	0.737344	8.121466	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	3.138925	65.15989	5.654015	51.96153	0.01	179.6031
	HULU TERENGGANU	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.771489	19.19414	10.18434	0.01	3.762007	0.01	0.01	0.01	7.090149	0.01	0.01	0.01	0.01	3.595505	0.01	0.01	1.389652	0.01	0.844598	47.46379	3	37.84984	0.01	135.3355		
	KUALA TERENGGANU	0.01	0.01	0.01	0.01	0.138122	0.01	1.328148	0.844598	8.891068	18.34463	0.01	0.01	9.733594	0.01	0.01	0.01	0.01	3.138925	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	3	71.33451	36.17465	51.96153	1.108173	206.1779
	SETIU	0.01	0.01	0.01	0.01	0.561968	0.01	0.01	1.213186	0.01	18.34463	0.01	0.643711	3.436373	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.88371	51.96153	24.0695	28.84735	0.01	130.172
	BESUT	0.01	0.01	0.01	0.01	0.021588	0.01	0.615221	0.01	0.01	4.30922	0.67352	3.138925	1.389652	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	3.436373	0.01	0.01	0.01	0.01	0.01	2.867223	36.17465	21.98607	26.35036	19.19414	120.3369
2008	DATE/BANDAR	1-Apr	2-Apr	3-Apr	4-Apr	5-Apr	6-Apr	7-Apr	8-Apr	9-Apr	10-Apr	11-Apr	12-Apr	13-Apr	14-Apr	15-Apr	16-Apr	17-Apr	18-Apr	19-Apr	20-Apr	21-Apr	22-Apr	23-Apr	24-Apr	25-Apr	26-Apr	27-Apr	28-Apr	29-Apr	30-Apr	TOTAL		
	KEMAMAN	4.508773	0.01	2.867223	5.915843	0.704711	0.01	0.01	0.88371	0.01	0.01	0.01	0.01	0.01	3	6.476435	0.01	0.01	0.01	45.36311	0.01	0.01	0.01	0.01	8.121466	6.476435	45.36311	0.01	1.269366	2.740324	0.01	133.8605		
	DUNGUN	4.93603	0.01	3.595505	0.01	4.717567	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	9.733594	23.00422	0.01	0.01	11.66573	0.01	0.01	8.497558	23.00422	0.01	41.43654	19.19414	0.01	149.9851		
	MARANG	3.138925	0.01	8.497558	0.048763	0.2172	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	3.436373	0.01	31.58095	0.01	0.01	5.403775	0.01	0.01	17.53272	31.58095	0.01	28.84735	71.33451	0.01	201.8091		
	HULU TERENGGANU	9.733594	0.01	12.20595	3	0.01	0.01	1.996108	0.01	0.029637	0.01	0.01	0.01	0.01	0.01	0.01	0.01	7.090149	0.01	23.00422	0.01	16.01511	0.01	0.01	0.01	20.08299	23.00422	8.891068	17.53272	51.58095	16.01511	190.3418		
	KUALA TERENGGANU	0.01	0.01	5.164609	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.468892	0.01	0.01	0.01	0.01	5.403775	0.01	36.17465	0.01	0.01	10.65596	0.01	0.01	17.53272	36.17465	0.01	39.6026	168.5908	0.01	319.9786		
	SETIU	0.01	0.01	5.164609	1.665501	0.01	0.01	0.01	0.01	0.844598	0.01	1.328148	0.01	0.01	0.01	1.159492	10.18434	0.01	74.63789	0.01	1.823326	8.891068	0.01	0.01	33.04342	74.63789	0.01	74.63789	134.4422	1.823326	424.4437			
	BESUT	0.88371	0.01	7.418484	12.20595	10.65596	3.138925	1.454005	0.01	0.01	0.01	0.01	0.01	0.01	0.537096	0.01	0.01	11.66573	0.01	89.45368	0.01	0.01	12.20595	0.01	0.01	54.36778	89.45368	0.01	47.46379	89.45368	0.01	430.5184		
2009	DATE/BANDAR	1-Apr	2-Apr	3-Apr	4-Apr	5-Apr	6-Apr	7-Apr	8-Apr	9-Apr	10-Apr	11-Apr	12-Apr	13-Apr	14-Apr	15-Apr	16-Apr	17-Apr	18-Apr	19-Apr	20-Apr	21-Apr	22-Apr	23-Apr	24-Apr	25-Apr	26-Apr	27-Apr	28-Apr	29-Apr	30-Apr	TOTAL		
	KEMAMAN	0.01	0.428306	0.771489	13.36261	0.01	4.717567	17.53272	0.01	0.01	0.771489	0.01	0.01	0.01	3.93622	2.286457	0.01	17.53272	0.01	1.269366	0.01	8.891068	0.01	1.269366	3.762007	6.189795	23.00422	12.77119	0.01	0.468892	0.126166	119.2116		
	DUNGUN	0.033948	5.403775	3.93622	0.01	0.01	0.01	14.62886	0.01	0.01	3.93622	3	0.01	9.302798	0.110145	18.34463	4.508773	14.62886	0.01	0.01	0.01	0.807217	2.286457	0.01	0.01	0.01	0.01	0.01	0.01	0.01	4.30922	109.0921		
	MARANG	0.01	1.059128	7.762021	3.138925	0.01	0.100611	11.14942	0.01	0.01	7.762021	0.01	0.01	3.138925	0.01	24.0695	3	11.14942	0.01	0.01	0.01	1.742629	0.01	0.01	0.01	0.01	1.454005	12.77119	1.742629	0.091902	0.01	1.591789	91.86412	
	HULU TERENGGANU	0.01	0.01	9.302798	2.61904	0.01	0.357367	2.740324	3.595505	0.01	9.302798	0.01	0.01	5.654015	0.15121	28.84735	0.01	2.740324	0.01	0.01	0.01	4.508773	0.01	0.01	3.762007	2.392338	0.01	0.01	0.181226	9.733594	11.66573	97.6944		
	KUALA TERENGGANU	0.01	8.497558	9.302798	3.284284	0.01	0.01	9.302798	0.01	0.01	9.302798	0.01	0.01	7.090149	0.01	18.34463	3.595505	9.302798	0.01	0.01	0.01	13.9814	0.01	3.138925	3.284284	0.01	12.77119	0.025873	0.01	0.01	0.01	111.385		
	SETIU	4.93603	3.93622	11.14942	0.01	3.762007	0.01	12.20595	0.01	0.01	11.14942	0.01	0.01	4.508773	0.01	39.6026	0.01	12.20595	0.01	0.01	0.01	28.84735	0.01	1.389652	4.508773	2.867223	10.65596	0.053384	0.01	0.01	0.01	151.9287		
	BESUT	1.823326	0.01	13.9814	0.01	3.436373	0.01	9.302798	1.159492	0.01	13.9814	3.762007	0.01	3.284284	0.01	56.88547	3.284284	9.302798	0.01	0.01	0.01	68.17734	0.01	0.01	0.01	2.185261	5.654015	6.776348	0.587993	1.591789	0.01	205.3064		





**MAY**









**JUNE**

		JUNE																															
	DATE/BANDAR	1-Jun	2-Jun	3-Jun	4-Jun	5-Jun	6-Jun	7-Jun	8-Jun	9-Jun	10-Jun	11-Jun	12-Jun	13-Jun	14-Jun	15-Jun	16-Jun	17-Jun	18-Jun	19-Jun	20-Jun	21-Jun	22-Jun	23-Jun	24-Jun	25-Jun	26-Jun	27-Jun	28-Jun	29-Jun	30-Jun	TOTAL	
1998	KEMAMAN	1.108173	0.01	0.01	0.01	0.01	0.248793	5.654015	0.01	8.497558	0.01	2.392338	0.01	3.595505	0.01	15.3063	4.717567	25.18412	6.776348	2.286457	2.740324	24.0695	0.01	1.742629	16.01511	8.891068	9.733594	20.08299	23.00422	1.454005	4.717567	188.3082	
	DUNGUN	2.392338	0.01	0.01	0.01	0.01	0.01	8.891068	0.01	0.771489	0.01	56.88547	0.01	5.403775	4.1185	0.01	4.30922	13.36261	0.7740711	0.207587	0.01	27.57059	0.01	4.30922	19.19414	6.189795	13.36261	20.08299	51.96153	3	4.30922	247.1369	
	MARANG	16.75674	0.01	0.2172	0.01	0.01	0.01	1.328148	0.01	5.164609	0.537096	47.46379	4.30922	16.01511	3.284284	0.073287	0.01	17.53272	0.391233	0.88371	3.762007	21.013	0.01	0.2172	27.57059	16.01511	16.75674	37.84984	26.35036	1.742629	0.01	265.3146	
	HULU TERENGGANU	16.01511	5.915843	0.01	0.391233	0.01	0.01	5.164609	0.01	16.75674	0.468892	9.733594	2.392338	11.66573	0.537096	0.01	0.01	37.84984	0.01	1.742629	12.20595	12.20595	0.01	0.01	25.18412	23.00422	8.891068	23.00422	16.75674	2.503124	0.01	232.4891	
	KUALA TERENGGANU	6.776348	0.01	0.01	0.01	0.01	0.01	0.643711	0.01	30.18322	0.01	43.35539	0.01	10.65596	4.508773	0.01	0.01	7.418484	0.326435	5.164609	1.269366	18.34463	0.01	43.35539	1.108173	25.18412	12.77119	11.14942	31.58095	3.284284	0.01	257.2005	
	SETIU	4.717567	1.389652	0.01	0.01	0.01	0.01	0.468892	0.01	39.6026	36.17465	25.18412	0.428306	5.654015	0.01	0.01	0.01	16.75674	0.01	1.996108	20.08299	7.418484	0.01	9.733594	19.19414	23.00422	1.213186	0.771489	8.891068	0.01	0.01	222.8018	
	BESUT	5.403775	0.055856	0.01	0.01	0.01	0.01	0.44814	0.01	17.53272	19.19414	20.08299	0.055856	33.04342	0.01	0.67352	0.01	2.503124	0.01	1.823326	8.891068	2.503124	0.01	4.93603	9.733594	14.62886	1.665501	12.20595	5.915843	0.01	0.01	161.4068	
	1999	KEMAMAN	0.01	0.01	0.100611	0.01	2.867223	6.776348	0.01	2.867223	13.9814	2.61904	0.01	18.34463	9.302798	5.915843	0.615221	6.189795	0.01	0.01	0.01	0.01	3.762007	3.284284	45.36311	10.65596	0.100611	0.01	0.100611	3.93622	0.01	0.01	136.9029
DUNGUN		0.01	0.01	24.0695	0.01	4.30922	0.737344	0.227258	0.06398	0.468892	0.01	0.01	15.3063	41.43654	0.01	1.213186	36.17465	0.01	0.01	0.01	0.01	0.260313	0.01	16.01511	0.06398	0.01	0.01	0.01	0.67352	0.01	0.01	141.1798	
MARANG		0.01	0.01	30.18322	0.771489	2.61904	2.088543	0.022588	0.087835	0.01	0.01	0.01	3.93622	11.66573	0.01	1.012251	43.35539	14.62886	0.01	0.01	0.01	0.248793	0.01	30.18322	0.01	0.01	0.01	2.088543	0.01	16.75674	159.7985		
HULU TERENGGANU		0.01	0.01	31.58095	3.284284	3.138925	4.30922	0.272369	1.996108	0.01	0.01	0.01	5.403775	14.62886	0.01	0.468892	47.46379	10.18434	0.01	0.01	0.01	0.643711	15.3063	16.75674	0.01	0.189618	0.01	0.01	0.01	0.01	25.18412	180.952	
KUALA TERENGGANU		1.108173	0.01	37.84984	0.096158	1.742629	0.88371	1.213186	0.01	0.01	0.01	0.01	3	9.302798	0.2172	1.742629	33.04342	6.776348	0.01	0.01	0.01	0.023634	0.01	8.497558	0.01	0.01	0.01	0.326435	0.120582	0.01	37.84984	143.9241	
SETIU		13.36261	0.643711	68.17734	5.654015	0.01	0.373917	0.01	2.503124	0.298179	0.01	0.01	2.286457	13.9814	8.891068	4.1185	5.164609	2.867223	0.01	0.01	0.01	0.01	0.01	2.867223	0.01	0.207587	0.01	0.01	0.01	0.01	37.84984	169.3868	
BESUT		4.93603	3.595505	65.15989	10.65596	0.373917	0.126166	7.762021	1.159492	0.373917	0.01	0.01	23.00422	7.090149	15.3063	2.503124	0.01	0.042571	0.01	0.01	0.01	19.19414	0.298179	0.01	0.01	0.01	0.587993	0.01	4.717567	0.01	1.059128	19.19414	187.2404
2000		KEMAMAN	0.01	43.35539	15.3063	0.01	0.01	0.01	3.762007	3.595505	0.01	3.762007	0.181226	14.62886	0.01	17.53272	3.138925	14.62886	11.14942	24.0695	11.66573	24.0695	1.742629	0.284982	0.01	0.01	0.01	0.01	0.01	0.326435	0.561968	0.01	193.882
	DUNGUN	2.392338	23.00422	26.35036	0.126166	0.01	6.189795	0.01	28.84735	0.01	0.01	1.521339	0.01	0.01	0.01	8.497558	0.01	4.1185	39.6026	8.121466	39.6026	0.01	0.01	0.326435	0.01	0.01	3.284284	18.34463	0.01	0.126166	0.01	210.5958	
	MARANG	1.213186	9.733594	21.013	0.01	0.01	0.083947	0.01	26.35036	0.807217	0.01	0.01	0.01	0.01	3.138925	0.01	0.01	5.915843	21.98607	14.62886	21.98607	0.01	0.01	0.126166	0.01	11.14942	0.01	14.62886	0.126166	6.476435	0.01	159.5041	
	HULU TERENGGANU	3.93622	11.66573	33.04342	0.01	13.9814	0.01	0.01	17.53272	7.090149	0.100611	5.654015	0.01	0.01	5.403775	0.01	0.01	4.508773	15.3063	11.14942	15.3063	0.01	6.476435	0.373917	0.704711	12.77119	1.328148	6.476435	0.01	5.403775	0.01	178.3134	
	KUALA TERENGGANU	1.328148	6.776348	17.53272	0.01	0.01	2.088543	0.01	31.58095	0.615221	1.907763	1.823326	0.01	0.01	0.01	0.01	0.01	3.762007	17.53272	33.04342	17.53272	0.01	0.01	0.01	0.01	3.762007	0.01	2.185261	0.01	4.93603	7.418484	153.9657	
	SETIU	1.521339	27.57059	31.58095	0.01	0.01	0.01	0.01	27.57059	1.012251	3.762007	0.01	0.391233	0.01	0.01	0.01	0.391233	0.513325	13.36261	28.84735	13.36261	1.665501	0.01	0.01	0.01	0.260313	0.01	6.476435	0.01	10.18434	0.132009	168.7347	
	BESUT	0.844598	19.19414	28.84735	1.389652	0.468892	0.01	0.01	5.403775	1.389652	0.01	0.01	0.01	0.01	2.088543	0.01	0.01	0.298179	8.497558	21.98607	8.497558	3	0.01	0.01	1.269366	0.01	0.01	78.09425	0.01	1.996108	0.01	183.4057	
	2001	KEMAMAN	0.01	2.61904	6.776348	6.776348	0.126166	11.14942	0.01	17.53272	1.823326	0.01	13.9814	20.08299	0.01	0.01	0.01	0.126166	0.01	16.75674	14.62886	2.088543	24.0695	2.61904	0.561968	0.01	0.01	0.01	1.907763	1.907763	3.284284	0.01	148.9284
DUNGUN		3.93622	10.18434	1.269366	1.269366	0.01	0.01	3.284284	0.076681	0.01	0.01	0.01	4.1185	0.01	0.01	0.01	11.66573	1.521339	7.090149	16.75674	15.3063	21.013	15.3063	5.403775	0.01	0.01	0.076681	0.01	0.01	39.6026	0.01	158.0114	
MARANG		0.513325	0.01	11.14942	11.14942	1.521339	0.01	28.84735	0.115245	0.01	0.01	0.01	0.01	0.01	0.01	0.01	7.418484	2.503124	0.01	11.14942	14.62886	7.762021	1.742629	4.717567	0.189618	0.01	0.490606	0.01	0.01	21.98607	1.012251	127.0268	
HULU TERENGGANU		0.01	0.01	13.36261	13.36261	1.742629	0.01	19.19414	2.392338	0.01	0.01	0.01	0.01	0.01	0.01	0.01	4.1185	6.189795	0.01	3.762007	23.00422	8.497558	0.01	3.93622	0.01	0.01	0.737344	0.01	0.01	43.35539	1.665501	145.4809	
KUALA TERENGGANU		0.01	0.01	10.18434	10.18434	10.18434	0.01	0.468892	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	24.0695	5.164609	0.01	4.30922	4.717567	12.77119	0.01	1.665501	1.665501	0.01	1.269366	0.01	0.01	1.269366	10.18434	98.26807	
SETIU		0.01	0.01	4.717567	4.717567	0.01	0.01	0.298179	12.77119	0.01	0.01	0.01	0.01	0.01	0.01	0.01	1.059128	15.3063	6.776348	0.01	18.34463	3.93622	0.96745	7.762021	0.01	3.93622	0.01	0.01	11.66573	11.66573	0.01	12.77119	116.8455
BESUT		0.01	0.01	4.30922	4.30922	0.01	0.01	0.01	12.77119	0.053384	3.436373	0.01	0.01	0.01	0.01	0.01	13.9814	7.762021	4.1185	21.98607	0.844598	1.591789	7.090149	0.01	5.164609	0.01	1.213186	10.65596	10.65596	0.01	1.269366	111.343	









**JULY**











# AUGUST









**SEPTEMBER**











**OCTOBER**









**NOVEMBER**











**DECEMBER**











<b>KEMAMAN</b>																
<b>MONTH / YEARS</b>	<b>DEPTH (mm)</b>															
	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2010	2013
<b>JANUARY</b>	122.9279	529.0531	418.0648	440.967	141.508	462.2891	141.2302	58.05451	118.1226	440.8332	274.673	199.2678	108.5435	419.0017	316.3388	247.5762
<b>FEBRUARY</b>	6.218961	218.5263	136.1677	136.1677	15.29255	191.351	15.41422	7.360149	468.959	2.521222	150.148	105.9716	0.624271	69.81872	20.84193	384.4245
<b>MARCH</b>	55.58184	214.51	240.4379	317.6295	156.1152	233.7518	34.29565	176.5298	74.49708	120.1018	198.5264	135.7348	120.8117	399.2199	276.0339	59.81974
<b>APRIL</b>	24.44879	271.2842	167.7712	140.7896	151.2369	236.5353	71.12065	112.4708	184.5043	151.6942	133.8605	119.2116	99.21622	86.0683	246.1203	154.5922
<b>MAY</b>	108.1641	248.4731	212.5212	171.8051	258.9821	104.5974	189.6751	237.2624	197.5404	272.7094	192.1158	112.1332	142.1927	316.6668	199.6605	254.081
<b>JUNE</b>	188.3082	136.9029	193.882	148.9284	114.3818	111.0511	167.7027	135.7871	176.6198	201.7409	151.1023	106.9093	106.8355	184.9918	151.7484	139.5549
<b>JULY</b>	184.6656	160.5834	86.46826	118.7796	205.9024	222.8365	106.9868	220.2049	180.3149	240.2476	317.1279	112.1813	138.6853	71.32713	88.73266	394.0623
<b>AUGUST</b>	204.572	210.6274	183.2335	235.8595	236.0267	129.638	200.9663	118.4346	143.0868	177.286	304.0899	132.3419	112.3224	139.8469	147.2735	142.2413
<b>SEPTEMBER</b>	147.2487	257.0439	170.1642	139.1933	182.012	203.7379	86.03431	185.2282	434.4539	137.4803	189.5129	160.8078	120.0464	196.3132	322.8472	282.0432
<b>OCTOBER</b>	390.0535	230.8355	394.8614	242.23	177.5076	353.2512	569.3842	259.1171	183.4943	396.9569	117.8888	133.3349	248.6717	443.7198	244.9526	436.447
<b>NOVEMBER</b>	319.8757	276.5688	435.2764	451.9033	275.0289	380.9059	402.1949	610.3917	331.516	226.7477	266.4869	116.3061	329.0012	532.7934	532.7934	346.2417
<b>DECEMBER</b>	796.2694	624.5953	437.6443	921.0116	572.6149	950.2563	717.9589	755.9918	639.7918	636.8428	747.5949	207.5037	619.6902	533.1846	763.7228	926.8861
<b>TOTAL</b>	2548.335	3379.004	3076.493	3465.264	2486.609	3580.202	2702.964	2876.833	3132.901	3005.162	3043.127	1641.704	2146.641	3392.952	3311.066	3767.97
<b>MIN</b>	6.218961	136.9029	86.46826	118.7796	15.29255	104.5974	15.41422	7.360149	74.49708	2.521222	117.8888	105.9716	0.624271	69.81872	20.84193	59.81974
<b>MAX</b>	796.2694	624.5953	437.6443	921.0116	572.6149	950.2563	717.9589	755.9918	639.7918	636.8428	747.5949	207.5037	619.6902	533.1846	763.7228	926.8861

<b>DUNGUN</b>																
<b>MONTH / YEARS</b>	<b>DEPTH (mm)</b>															
	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2010	2013
<b>JANUARY</b>	69.31083	345.1099	245.6054	493.3709	188.8069	206.2569	27.77666	8.17236	54.42185	468.1542	284.71	122.6747	91.80837	415.0283	210.2633	382.6638
<b>FEBRUARY</b>	5.142878	283.6947	77.37818	77.37818	4.50359	111.7463	25.69392	0.627367	405.322	0.28	112.8785	99.32458	9.161068	107.3515	35.19715	503.3446
<b>MARCH</b>	65.02018	147.297	295.4697	242.5572	149.9142	237.6389	26.36665	269.395	87.90943	135.5365	84.05679	118.8018	65.08976	499.864	262.3646	168.529
<b>APRIL</b>	26.35007	255.1173	151.4214	113.5176	186.0438	189.2194	49.09388	116.7796	154.975	199.6541	149.9851	109.0921	125.3748	114.8477	153.8156	242.576
<b>MAY</b>	106.9888	227.4257	212.9746	150.2633	222.6449	174.913	107.6616	205.7855	181.9077	180.3591	206.7839	106.8895	193.8554	346.8786	178.4865	316.4918
<b>JUNE</b>	247.1369	141.1798	210.5958	158.0114	97.92667	122.3555	109.6327	208.164	194.4269	176.7809	367.0459	99.34458	103.4089	197.463	143.1707	236.69
<b>JULY</b>	140.0883	213.3974	94.59457	144.055	173.5576	229.9052	157.2193	273.9406	289.8051	207.7827	191.4111	102.6289	187.3699	149.8378	57.97783	296.0845
<b>AUGUST</b>	195.3435	176.0014	182.224	263.3253	191.1006	195.8798	301.5309	163.6102	161.8257	136.5377	264.776	121.813	124.3805	194.5779	215.8749	292.6346
<b>SEPTEMBER</b>	236.5955	362.313	186.8207	128.4278	206.6768	232.1811	146.0707	199.7117	415.8791	170.1258	179.8584	168.0498	138.5189	235.9551	222.3634	295.6159
<b>OCTOBER</b>	388.9653	228.2779	290.7865	235.0087	193.3695	425.5331	520.9779	318.4036	189.1525	367.1921	113.5633	116.2046	244.9961	530.7909	261.9837	497.6306
<b>NOVEMBER</b>	361.7118	429.8021	503.9206	637.8031	325.4484	596.126	626.3478	510.9453	394.0605	236.4131	473.8657	115.8345	378.3094	615.3003	615.3003	583.5101
<b>DECEMBER</b>	782.3801	857.9243	576.4873	671.7914	661.2822	860.375	519.8918	792.1217	555.7723	547.7989	719.4177	482.7475	739.6176	617.6926	630.5823	826.654
<b>TOTAL</b>	2625.034	3667.54	3028.279	3315.51	2601.275	3582.13	2618.264	3067.657	3085.458	2826.615	3148.352	1763.406	2401.891	4025.588	2987.38	4642.425
<b>MIN</b>	5.142878	141.1798	77.37818	77.37818	4.50359	111.7463	25.69392	0.627367	54.42185	0.28	84.05679	99.32458	9.161068	107.3515	35.19715	168.529
<b>MAX</b>	782.3801	857.9243	576.4873	671.7914	661.2822	860.375	626.3478	792.1217	555.7723	547.7989	719.4177	482.7475	739.6176	617.6926	630.5823	826.654

<b>MARANG</b>																
<b>MONTH / YEARS</b>	<b>DEPTH (mm)</b>															
	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2010	2013
<b>JANUARY</b>	143.8176	337.3361	152.6445	518.5012	155.0966	168.3332	158.2553	13.20985	15.59049	402.0532	242.714	110.7402	125.5232	372.2516	237.5731	606.6865
<b>FEBRUARY</b>	15.94427	372.0371	90.43636	90.43636	3.533717	84.7174	17.34041	15.24955	423.0849	4.470402	100.0791	90.11149	33.31342	59.40341	33.8806	663.0682
<b>MARCH</b>	71.40674	125.0861	359.5965	191.0581	135.7395	286.904	71.11773	316.1669	83.62066	139.2168	26.72542	99.00053	107.3004	597.3004	283.9302	368.9878
<b>APRIL</b>	22.80986	268.2604	83.27673	182.4654	210.8919	134.0574	39.77259	89.56631	119.47	179.6031	201.8091	91.86412	118.2443	111.6849	163.6681	433.1734
<b>MAY</b>	108.7239	168.1502	208.4716	137.9996	188.9944	167.7537	210.5091	185.8308	174.4846	157.773	305.1112	144.4993	145.7736	368.1507	141.4046	493.7882
<b>JUNE</b>	265.3146	159.7985	159.5041	127.0268	105.7697	125.493	124.3513	273.76	229.4234	144.144	331.1441	90.13149	137.5177	155.7673	143.7767	418.332
<b>JULY</b>	152.2208	248.4238	101.8202	178.5194	142.2048	272.4745	175.9165	268.6257	308.3894	203.7653	295.6994	91.5855	216.3236	95.10776	71.21804	461.5069
<b>AUGUST</b>	122.0457	166.0725	155.4069	240.506	162.177	233.3635	279.1932	124.1728	122.0951	136.2206	245.4004	157.8013	120.3439	194.1664	208.8677	492.2725
<b>SEPTEMBER</b>	287.9553	379.362	176.648	145.0831	211.0413	217.6706	169.7281	229.7204	359.6173	160.318	228.2528	155.7297	198.3751	309.2279	293.9725	541.6649
<b>OCTOBER</b>	400.648	222.2844	241.2236	298.5558	229.7714	429.6438	471.7606	374.6121	216.7044	330.9892	119.0605	91.87412	228.3074	511.4552	314.7386	766.1513
<b>NOVEMBER</b>	335.4876	480.9893	581.8934	642.0552	376.7545	552.2344	653.4501	448.9967	409.929	240.9998	398.3746	107.9428	549.0481	644.7486	644.7486	969.7717
<b>DECEMBER</b>	627.0744	856.2164	539.922	438.7592	623.6985	743.6955	427.3312	869.5325	455.1781	411.8285	566.9988	409.8911	784.6097	646.2026	738.4008	850.5526
<b>TOTAL</b>	2553.449	3784.017	2850.844	3190.966	2545.673	3416.341	2798.726	3209.444	2917.587	2511.382	3061.369	1641.172	2764.68	4065.467	3276.18	7065.956
<b>MIN</b>	15.94427	125.0861	83.27673	90.43636	3.533717	84.7174	17.34041	13.20985	15.59049	4.470402	26.72542	90.11149	33.31342	59.40341	33.8806	368.9878
<b>MAX</b>	627.0744	856.2164	581.8934	642.0552	623.6985	743.6955	653.4501	869.5325	455.1781	411.8285	566.9988	409.8911	784.6097	646.2026	738.4008	969.7717

<b>HULU TERENGGANU</b>																
<b>MONTH / YEARS</b>	<b>DEPTH (mm)</b>															
	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2010	2013
<b>JANUARY</b>	89.39618	456.5358	178.3599	535.2364	190.8345	329.4129	303.1445	3.386308	42.59105	445.6727	168.346	251.9131	171.9222	492.7826	356.0854	607.7857
<b>FEBRUARY</b>	10.86786	377.6013	57.4693	57.4693	1.065507	105.1609	2.20606	0.451226	451.4769	1.227839	217.2495	87.95081	31.85095	84.6858	59.72854	684.9101
<b>MARCH</b>	44.1513	133.5239	337.3534	192.9812	129.0675	243.2522	47.67425	263.5501	63.11809	139.3787	118.8472	106.192	101.2811	596.3768	299.3986	335.2891
<b>APRIL</b>	5.005973	227.344	110.0959	127.1067	144.0987	176.7411	57.5685	76.07841	107.0228	135.3355	190.3418	97.6944	111.629	135.7498	193.9539	422.1641
<b>MAY</b>	133.0315	224.6774	183.8117	171.6749	162.3591	151.2144	206.084	210.1271	208.3697	219.4187	280.3019	130.4222	193.1222	248.8288	245.7263	492.8009
<b>JUNE</b>	232.4891	180.952	178.3134	145.4809	140.716	173.1433	102.9462	306.8279	214.0758	158.1831	369.8787	107.418	181.6406	218.7876	122.2698	424.5617
<b>JULY</b>	176.0843	172.148	98.19773	180.8753	160.3869	296.2259	174.7007	224.3304	328.0174	222.4699	257.6748	90.36315	264.5679	124.9607	132.739	455.9471
<b>AUGUST</b>	191.9121	237.5761	177.4313	231.7424	207.4621	231.1554	279.2251	168.196	170.7741	177.1735	281.168	133.6027	182.512	199.3022	232.9383	482.6547
<b>SEPTEMBER</b>	328.0654	343.4038	219.747	229.5462	206.0074	235.8741	237.6593	275.268	491.9274	217.8709	255.331	146.9815	207.5343	256.7439	275.8638	575.6451
<b>OCTOBER</b>	329.5578	266.4826	283.8555	317.3684	267.3352	401.5209	519.7796	335.9167	236.8307	345.2016	168.8235	88.12202	189.8898	434.4289	213.63	606.2592
<b>NOVEMBER</b>	236.0909	407.4689	529.877	485.0112	284.4469	418.069	510.5185	526.6465	332.5997	196.7276	288.593	105.958	528.723	700.3136	700.3136	662.2966
<b>DECEMBER</b>	710.8561	785.376	560.7897	553.5956	545.9241	877.225	589.5639	811.9527	446.7128	743.6315	627.2931	279.8788	722.4299	700.3236	812.363	982.8631
<b>TOTAL</b>	2487.508	3813.09	2915.302	3228.089	2439.704	3638.995	3031.071	3202.731	3093.516	3002.291	3223.848	1626.497	2887.103	4193.284	3645.01	6733.177
<b>MIN</b>	5.005973	133.5239	57.4693	57.4693	1.065507	105.1609	2.20606	0.451226	42.59105	1.227839	118.8472	87.95081	31.85095	84.6858	59.72854	335.2891
<b>MAX</b>	710.8561	785.376	560.7897	553.5956	545.9241	877.225	589.5639	811.9527	491.9274	743.6315	627.2931	279.8788	722.4299	700.3236	812.363	982.8631

<b>KUALA TERENGGANU</b>																
<b>MONTH / YEARS</b>	<b>DEPTH (mm)</b>															
	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2010	2013
<b>JANUARY</b>	70.20118	176.8986	167.0068	398.8443	158.345	185.6525	152.9531	45.52419	13.10568	398.0911	130.2643	103.684	123.4229	358.4722	249.3335	589.7531
<b>FEBRUARY</b>	30.51803	305.506	99.83737	99.83737	5.434609	69.99492	20.45989	1.861789	317.2442	18.46243	159.0597	111.3491	0.28	33.7438	35.72092	567.2688
<b>MARCH</b>	67.58172	109.8188	362.4978	186.1865	131.6661	291.0756	74.33028	315.3599	77.29993	142.1327	12.92955	111.938	55.70576	620.4128	284.228	319.4862
<b>APRIL</b>	14.23278	209.806	73.79935	177.1982	191.97	132.3191	40.36238	92.54145	131.5847	206.1779	319.9786	111.385	101.93	80.47728	154.511	381.0795
<b>MAY</b>	153.0258	154.3383	174.7433	117.7882	194.4816	182.221	218.7857	128.2473	183.9605	131.5693	390.5348	130.5633	152.8075	210.0444	171.7747	413.13
<b>JUNE</b>	257.2005	143.9241	153.9657	98.26807	97.39468	127.7749	105.6805	268.2972	181.3121	122.7765	338.8378	111.3691	140.9476	142.9281	135.2938	374.779
<b>JULY</b>	145.0926	258.0395	117.7844	172.2839	183.0562	296.4055	151.3554	213.3906	327.1503	211.8448	390.2718	111.3791	217.6454	112.1011	108.5846	384.8667
<b>AUGUST</b>	137.8207	167.2473	157.3243	220.6298	146.7215	205.2712	269.761	136.3321	106.2494	132.1314	243.2776	158.8329	89.32629	179.3817	144.3226	495.4729
<b>SEPTEMBER</b>	297.3764	338.8077	191.7629	182.3789	199.6358	205.6259	169.0874	198.2719	273.4632	245.1071	351.6759	154.7145	224.5357	256.7985	224.4645	514.9078
<b>OCTOBER</b>	374.0185	250.1484	232.8773	214.5253	220.6339	438.5225	513.9681	427.9775	223.2576	384.0358	142.6787	111.395	196.3517	505.5902	288.5429	624.1414
<b>NOVEMBER</b>	331.4048	551.112	633.7977	725.2996	455.31	534.0988	539.4123	392.151	440.2456	205.4291	407.3196	116.311	566.8513	648.5684	648.5684	1004.996
<b>DECEMBER</b>	631.814	939.1781	632.4529	297.0348	608.7011	703.4127	360.3903	840.0758	417.4443	375.319	569.3313	443.8531	759.4792	649.4521	756.251	672.9947
<b>TOTAL</b>	2510.287	3604.825	2997.85	2890.275	2593.35	3372.375	2616.546	3060.031	2692.317	2573.077	3456.16	1776.774	2629.283	3797.971	3201.596	6342.877
<b>MIN</b>	14.23278	109.8188	73.79935	98.26807	5.434609	69.99492	20.45989	1.861789	13.10568	18.46243	12.92955	103.684	0.28	33.7438	35.72092	319.4862
<b>MAX</b>	631.814	939.1781	633.7977	725.2996	608.7011	703.4127	539.4123	840.0758	440.2456	398.0911	569.3313	443.8531	759.4792	649.4521	756.251	1004.996

SETIU																
MONTH / YEARS	DEPTH (mm)															
	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2010	2013
<b>JANUARY</b>	82.80345	318.2333	120.1188	409.8483	113.2903	309.6638	106.1367	98.04687	20.8553	432.7341	161.5073	176.5703	159.1822	416.2658	375.8955	391.5802
<b>FEBRUARY</b>	33.30345	455.6257	62.08335	62.08335	9.360443	97.17137	18.59948	0.913711	343.1238	46.21222	212.6453	146.9393	0.28	40.98612	48.19119	464.1352
<b>MARCH</b>	39.19887	117.721	376.2592	153.5238	112.4271	210.8537	30.93636	261.87	65.94722	132.4806	14.14304	151.5549	78.62578	654.2416	317.392	195.016
<b>APRIL</b>	8.787558	202.8494	101.0061	132.9559	97.55997	179.4782	21.3702	63.46897	82.63397	130.172	424.4437	151.9287	89.72618	25.10231	160.3312	276.8976
<b>MAY</b>	175.5434	155.1606	145.1352	172.5558	150.6035	136.2607	187.7734	204.3064	197.8109	160.1897	408.6336	168.9454	173.7314	173.3028	215.6478	296.9773
<b>JUNE</b>	222.8018	169.3868	168.7347	116.8455	112.7286	173.0751	124.9094	271.0722	194.0614	141.8246	448.8457	146.9593	185.2656	191.7163	107.3899	270.9083
<b>JULY</b>	163.2122	213.1475	123.0382	130.9506	171.9806	328.4413	181.4323	198.5825	300.7349	239.9241	493.9656	150.6611	260.3551	122.4454	152.9716	277.1496
<b>AUGUST</b>	206.3578	259.0705	140.0556	271.4501	162.0792	216.1147	278.752	189.0272	165.8349	191.3976	417.5675	187.3965	108.3743	188.0746	202.055	368.4901
<b>SEPTEMBER</b>	339.8396	192.8323	254.4929	228.0054	208.3378	220.8411	210.7175	265.0882	338.307	255.781	447.6238	179.3649	236.7568	224.5364	236.3298	383.6411
<b>OCTOBER</b>	340.7425	272.4269	251.3492	233.3199	244.7208	458.3675	544.6791	378.6614	212.8424	345.4114	271.1714	147.0127	171.2921	427.8816	142.8399	501.995
<b>NOVEMBER</b>	225.2184	518.938	680.3508	556.3704	388.5016	449.5288	512.7012	429.5626	370.8071	187.3916	434.1401	154.7037	629.7203	682.1312	682.1312	692.8994
<b>DECEMBER</b>	775.6802	1004.847	621.7015	280.0717	598.1626	756.0071	479.0818	857.8764	470.5211	573.4403	590.4011	692.0215	799.6134	682.1412	1079.455	587.3244
<b>TOTAL</b>	2613.489	3880.239	3044.325	2747.981	2369.752	3535.803	2697.089	3218.476	2763.48	2836.959	4325.088	2454.058	2892.923	3828.825	3720.63	4707.014
<b>MIN</b>	8.787558	117.721	62.08335	62.08335	9.360443	97.17137	18.59948	0.913711	20.8553	46.21222	14.14304	146.9393	0.28	25.10231	48.19119	195.016
<b>MAX</b>	775.6802	1004.847	680.3508	556.3704	598.1626	756.0071	544.6791	857.8764	470.5211	573.4403	590.4011	692.0215	799.6134	682.1412	1079.455	692.8994

<b>BESUT</b>																
<b>MONTH / YEARS</b>	<b>DEPTH (mm)</b>															
	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2010	2013
<b>JANUARY</b>	185.2974	294.7735	156.1919	331.0377	112.3175	208.1428	39.54392	38.8927	75.782	345.5841	96.18963	206.3151	168.6188	423.7929	352.5803	416.127
<b>FEBRUARY</b>	22.25204	473.7429	40.87254	40.87254	45.64583	111.765	22.54762	12.76234	235.1271	12.06485	96.28842	202.8951	13.14913	40.21675	45.39767	359.6813
<b>MARCH</b>	26.02274	74.59227	386.6311	239.4801	117.3155	164.7276	47.49909	194.9487	63.94634	130.1139	52.06086	235.652	81.52245	674.1529	221.7057	118.8934
<b>APRIL</b>	13.01443	182.0708	174.2415	105.3687	73.67868	115.3081	39.79569	52.1773	61.60679	120.3369	430.5184	205.3064	89.92558	13.28991	180.5759	212.2172
<b>MAY</b>	191.8524	200.1305	126.119	182.0582	144.076	139.0227	158.3267	226.5301	225.7464	173.2536	419.2089	215.121	239.1927	151.9566	279.3706	252.3146
<b>JUNE</b>	161.4068	187.2404	183.4057	111.343	144.3757	179.0604	162.5469	283.3908	188.4456	159.1463	420.9993	202.9151	152.0381	231.0767	110.9932	219.0425
<b>JULY</b>	214.0314	167.135	117.803	125.8525	155.7681	392.8131	210.542	188.9907	325.3234	244.2773	412.266	208.5691	290.4366	242.0147	228.9039	175.5357
<b>AUGUST</b>	226.6439	296.9464	128.644	234.9633	168.3302	226.3002	238.5832	198.6935	194.295	235.3739	427.5299	237.4887	129.5481	149.1372	221.5363	261.9767
<b>SEPTEMBER</b>	321.3021	176.0759	292.4862	273.5292	204.7714	202.9076	251.927	274.1455	286.2999	262.868	366.5573	221.2497	202.8058	201.2451	288.4483	219.6066
<b>OCTOBER</b>	330.2645	263.6261	227.3223	254.0742	240.4257	495.5742	534.6644	347.8911	210.3296	343.7913	226.6902	203.5031	229.4662	475.2046	138.0909	472.6672
<b>NOVEMBER</b>	218.4959	519.8454	755.1573	452.7704	447.5312	397.4396	452.6594	427.1292	338.5242	172.9134	433.1554	211.8204	615.1808	792.4661	792.4661	579.121
<b>DECEMBER</b>	746.4628	998.25	622.14	357.1124	516.457	673.2792	441.0686	868.3097	411.8305	584.3211	615.553	596.8718	766.9903	792.4761	1216.515	486.7439
<b>TOTAL</b>	2657.046	3834.429	3211.015	2708.462	2370.693	3306.34	2599.704	3113.862	2617.257	2784.045	3997.017	2947.707	2978.874	4187.03	4076.584	3773.927
<b>MIN</b>	13.01443	74.59227	40.87254	40.87254	45.64583	111.765	22.54762	12.76234	61.60679	12.06485	52.06086	202.8951	13.14913	13.28991	45.39767	118.8934
<b>MAX</b>	746.4628	998.25	755.1573	452.7704	516.457	673.2792	534.6644	868.3097	411.8305	584.3211	615.553	596.8718	766.9903	792.4761	1216.515	579.121



YEARS / TOWNS	KEMAMAN		DUNGUN		MARANG		HULU TERENGGANU		KUALA TERENGGANU		SETIU		BESUT	
	Depth (mm)	Month	Depth (mm)	Month	Depth (mm)	Month	Depth (mm)	Month	Depth (mm)	Month	Depth (mm)	Month	Depth (mm)	Month
1998	796.269412	DECEMBER	782.380079	DECEMBER	627.074362	DECEMBER	710.856091	DECEMBER	631.814045	DECEMBER	775.68019	DECEMBER	746.462757	DECEMBER
1999	624.595328	DECEMBER	857.9243	DECEMBER	856.216411	DECEMBER	785.376029	DECEMBER	939.178125	DECEMBER	1004.8472	DECEMBER	998.250031	DECEMBER
2000	437.644305	DECEMBER	576.48726	DECEMBER	581.893419	NOVEMBER	560.789681	DECEMBER	633.797748	NOVEMBER	680.350794	NOVEMBER	755.157299	NOVEMBER
2001	921.011559	DECEMBER	671.791429	DECEMBER	642.055241	NOVEMBER	553.595599	DECEMBER	725.299572	NOVEMBER	556.370449	NOVEMBER	452.770368	NOVEMBER
2001	572.614915	DECEMBER	661.282232	DECEMBER	623.698534	DECEMBER	545.924067	DECEMBER	608.701068	DECEMBER	598.162635	DECEMBER	516.457034	DECEMBER
2003	950.256286	DECEMBER	860.375005	DECEMBER	743.695484	DECEMBER	877.225007	DECEMBER	703.412687	DECEMBER	756.007059	DECEMBER	673.2792	DECEMBER
2004	717.958897	DECEMBER	626.347762	NOVEMBER	653.450142	NOVEMBER	589.563912	DECEMBER	539.412333	NOVEMBER	544.679098	OCTOBER	534.664405	OCTOBER
2005	755.991776	DECEMBER	792.121727	DECEMBER	869.532508	DECEMBER	811.952699	DECEMBER	840.075793	DECEMBER	857.876375	DECEMBER	868.309673	DECEMBER
2006	639.791849	DECEMBER	555.772295	DECEMBER	455.178099	DECEMBER	491.927365	SEPTEMBER	440.24558	NOVEMBER	470.521066	DECEMBER	411.830526	DECEMBER
2007	636.842771	DECEMBER	547.798867	DECEMBER	411.828479	DECEMBER	743.631516	DECEMBER	398.091105	JANUARY	573.440259	DECEMBER	584.32113	DECEMBER
2008	747.594934	DECEMBER	719.417716	DECEMBER	566.998832	DECEMBER	627.293054	DECEMBER	569.331272	DECEMBER	590.40112	DECEMBER	615.553048	DECEMBER
2009	207.503722	DECEMBER	482.747515	DECEMBER	409.891056	DECEMBER	279.878759	DECEMBER	443.853074	DECEMBER	692.021498	DECEMBER	596.871799	DECEMBER
2010	619.690187	DECEMBER	739.617612	DECEMBER	784.609703	DECEMBER	722.429864	DECEMBER	759.47918	DECEMBER	799.613352	DECEMBER	766.990275	DECEMBER
2011	533.184616	DECEMBER	617.692591	DECEMBER	646.202602	DECEMBER	700.32359	DECEMBER	649.452119	DECEMBER	682.141156	DECEMBER	792.476145	DECEMBER
2012	763.722756	DECEMBER	630.582282	DECEMBER	738.400791	DECEMBER	812.363018	DECEMBER	756.251015	DECEMBER	1079.45479	DECEMBER	1216.51463	DECEMBER
2013	926.886094	DECEMBER	826.653968	DECEMBER	969.771688	NOVEMBER	982.863145	DECEMBER	1004.99647	NOVEMBER	692.899388	NOVEMBER	579.121003	NOVEMBER
TOTAL	10851.55941		10948.99264		10580.49735		10795.9934		10643.39119		11354.46643		11109.02932	
MIN	207.503722		482.747515		409.891056		279.878759		398.091105		470.521066		411.830526	
MAX	950.256286		860.375005		969.771688		982.863145		1004.99647		1079.454788		1216.51463	
MEAN	678.2224629		684.31204		661.2810844		674.7495873		665.2119491		709.6541518		694.3143326	
STANDARD DEVIATION	191.4160429		117.1087185		161.4143363		170.884616		172.2127612		166.4877192		208.7189615	

YEARS / TOWNS	Depth (mm)						
	KEMAMAN	DUNGUN	MARANG	HULU TERENGGANU	KUALA TERENGGANU	SETIU	BESUT
1998	2548.334722	2625.03405	2553.4487	2487.508477	2510.287069	2613.4892	2657.046
1999	3379.004088	3667.54048	3784.0168	3813.089788	3604.824824	3880.2391	3834.429
2000	3076.492718	3028.27858	2850.8437	2915.301838	2997.84985	3044.3255	3211.015
2001	3465.26447	3315.50995	3190.9661	3228.088704	2890.274807	2747.9808	2708.462
2001	2486.60892	2601.27513	2545.6733	2439.70384	2593.350491	2369.7525	2370.693
2003	3580.201601	3582.13018	3416.3411	3638.995002	3372.37471	3535.8032	3306.34
2004	2702.963868	2618.26375	2798.7263	3031.070545	2616.54644	2697.0894	2599.704
2005	2876.832972	3067.65691	3209.4436	3202.73129	3060.030783	3218.4764	3113.862
2006	3132.900979	3085.45811	2917.5872	3093.516313	2692.317392	2763.48	2617.257
2007	3005.161861	2826.6151	2511.3817	3002.291458	2573.077146	2836.9591	2784.045
2008	3043.127256	3148.35246	3061.3695	3223.848447	3456.159687	4325.0879	3997.017
2009	1641.704173	1763.40551	1641.1716	1626.496592	1776.774065	2454.0583	2947.707
2010	2146.64089	2401.89075	2764.6805	2887.102811	2629.283407	2892.9231	2978.874
2011	3392.952278	4025.58781	4065.4667	4193.28439	3797.970693	3828.8251	4187.03
2012	3311.065842	2987.38013	3276.1796	3645.0103	3201.595959	3720.6299	4076.584
2013	3767.970091	4642.42504	7065.9561	6733.177261	6342.876823	4707.0142	3773.927
TOTAL	47557.22673	49386.8039	51653.253	53161.21706	50115.59415	51636.134	51163.99
MIN	1641.704173	1763.40551	1641.1716	1626.496592	1776.774065	2369.7525	2370.693
MAX	3767.970091	4642.42504	7065.9561	6733.177261	6342.876823	4707.0142	4187.03
MEAN	2972.326671	3086.67525	3228.3283	3322.576066	3132.224634	3227.2583	3197.75
MEDIAN	3059.809987	3047.96775	2989.4783	3148.123802	2944.062329	2968.6243	3046.368
STANDARD DEVIATION	559.464611	678.740775	1166.1156	1089.864882	992.0873261	695.47047	596.5565