

ICT ASSESSMENT TASK 4A (UNIT-2)

**WRITTEN REPORT ON
WEATHER AND CLIMATE OF SELECTED
MALAYSIA STATES**

NAME	: Ashraf Bin Alias
STUDENT ID	: 16062507
GROUP	: 2-3
LECTURER	: Miss Vani
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Chapter 1 – Introduction

The scenario that was given is about the weather and climate of selected Malaysia states where reliable websites are used for data collections such as the official website of Malaysian Meteorological Department and more in which four states (Kuala Lumpur, Johor, Sabah and Sarawak) are collected. The data manipulation is done only to the scope of comparing the Peninsular Malaysia and the Malaysian Borneo where two states are used to represent each region. Kuala Lumpur and Johor represent the Peninsular Malaysia while Sabah and Sarawak represent the Malaysia Borneo. The aim for this is to observe any relationships or patterns between the collected data, hence providing any evidences to substantiate or refute the hypothesis generated. Notably, there are two hypotheses generated prior to the data analysis which are the monsoon season will impact the rainfall in Peninsular Malaysia more than the Malaysian Borneo and the Peninsular Malaysia will experience a higher UV index than the Malaysian Borneo.

Chapter 2 – Data Set

2.1 Techniques used

As the data collection is done, there are a few data gathering techniques used which are as follows:

- Observing

Some of the websites used to collect the data are not accurate and unreliable. To solve this, the official website is closely compared with other websites used to ensure the reliability of data is maintained. Some of the data are also not available such as the UV index. Hence, through observation, a formula was created to calculate this.

- Reporting

The data collection is done using the monitored and observed websites. Thus, this lowers the chances of gathering inaccurate data which may alter the outcome.

The raw data that is collected contains different types of data at which it can be classified into two types; qualitative data and quantitative data. Each of this type of data can also be branched into smaller subtypes compatible to the data, as listed below:

- As the data are not numerical data in nature it can be categorized into three other data types; binary, nominal and ordinal. Hence, nominal data is used to represent weather data as there are no natural order in the categories.

Figure 1: Sample qualitative data (Nominal data)

- Quantitative data

Some of the data collected can be measured in numerical terms which are then categorised into two other data types; discrete and continuous. Discrete data that involves whole number is represented by the UV index. However, the UV index are generated by using a formula since the data cannot be found. The formula is as follow:

$$X = \frac{25 \text{ (Average UV index)}}{(\text{Elevation of the area} * 1.06)(1 - \text{Cloud}\%)}$$

Using the formula, the UV index on the respective months (January to April) are collected on three different years; 2014, 2015 and 2016, hence the average is calculated for that month. Elevation of the area (in km) used and the cloud cover (during the day only) are also gathered. Notably, X acts as a UV effect (wavelength). Finally, data is substituted back along with X into the formula below which is used to calculate daily UV index:

$$\text{UV index} = \frac{X (\text{Elevation of the area} * 1.06)(1 - \text{Cloud}\%)}{25}$$

Estimated UV Index									
January					February				
Date	Kuala Lumpur	Johor	Sabah	Sarawak	Date	Kuala Lumpur	Johor	Sabah	Sarawak
1-Jan	7	7	5	11	1-Feb	4	8	7	9
2-Jan	4	5	4	10	2-Feb	5	6	7	7
3-Jan	2	6	8	8	3-Feb	8	8	6	1
4-Jan	6	4	5	8	4-Feb	8	7	7	11

Figure 2: Sample quantitative data (Discrete data)

On the other hand, continuous data that involves floating point is represented by wind speed, humidity, rainfall, temperature, and cloud cover as they can take value in any range.

Rainfall									
January					February				
Date	Amount of Rain (mm)	Amount of Rain (mm)	Amount of Rain (mm)	Amount of Rain (mm)	Date	Amount of Rain (mm)	Amount of Rain (mm)	Amount of Rain (mm)	Amount of Rain (mm)
1-Jan	10.30	9.30	0.80	0.30	1-Feb	11.20	4.70	4.30	1.50
2-Jan	12.50	17.80	3.70	4.60	2-Feb	10.90	7.20	3.00	12.50
3-Jan	4.90	5.50	2.20	18.30	3-Feb	2.50	4.90	5.30	17.40
4-Jan	2.50	1.40	2.20	6.50	4-Feb	1.60	0.60	0.70	0.80

Figure 3: Sample quantitative data (Continuous data)

Chapter 3 – Data Analysis

3.1 Hypothesis statements

The hypotheses generated are mainly assumptions prior to the analysis of data which are explained further below:

- **Hypothesis 1** - The monsoon season will impact the rainfall in Peninsular Malaysia more than the Malaysian Borneo

Explanation

The hypothesis is generated to study whether it is true or false that the monsoon season will impact the rainfall in Peninsular Malaysia more than the Malaysian Borneo. Notably, it is assumed because the data is gathered during the beginning of the year (January to April), as Malaysia annually experienced the occurrence of monsoon season; mainly the Northeast Monsoon that occurs from early November to the end of March (Malaysian Meteorological Department 2017). As a result, the Northeast Monsoon that usually brings heavy rain may give a bigger impact on the Peninsular Malaysia more than the Malaysian Borneo (due to the pattern and direction of the monsoon). This is further strengthened as Malaysia also experiences La Nina phenomenon that impact the Peninsular Malaysia more during the time the data is collected ('Climate change cause of prolonged rain' 2017).

Importance

The hypothesis is important as it can show where the monsoon season will impact the most; the Peninsular Malaysia or the Malaysian Borneo. This is because excessive amount of rain may cause water to rise (occurrence of flood) especially in low level areas and commonly in cities where the additional water flow cannot be directed out due to the concrete jungles and overflow in the sewage systems.

- **Hypothesis 2** - The Peninsular Malaysia will experience a higher UV index than the Malaysian Borneo

Explanation

The hypothesis is generated with the aim to try proving whether it is true or false that the Peninsular Malaysia will experience a higher UV index than the Malaysian Borneo. This is because it is assumed that the development and urbanization in Peninsular Malaysia is more than the Malaysian Borneo in terms of larger chains of public transportations, skyscrapers, high end buildings and more. This is due to the Peninsular Malaysia having a lot more major cities such as Kuala Lumpur and Ipoh, to support the rapid population growth, than in Malaysian Borneo ('Challenges of urbanization' 2016). As a result, this can be one of the crucial factor to the changes in UV index. Substances such as chlorofluorocarbons (CFCs) and more that can be found in man-made materials (air-conditioner, refrigerators and more) are commonly used in major cities (higher density of population) which may contribute to a faster rate of ozone layer depletion, hence resulting in a higher UV index in Peninsular Malaysia.

Importance

The hypothesis is important as it can show which region will have a higher UV index. As a result, the people living in the region with higher UV index can take necessary precaution to avoid being expose to UV index for a long period of time as this can lead to many harmful effects.

3.2 Outcomes of the test

After the data collection and analysis is done, the results are compared to see whether the hypotheses generated can be substantiated or refuted. The results are shown below:

- **Hypothesis 1** - The monsoon season will impact the rainfall in Peninsular Malaysia more than the Malaysian Borneo

Results

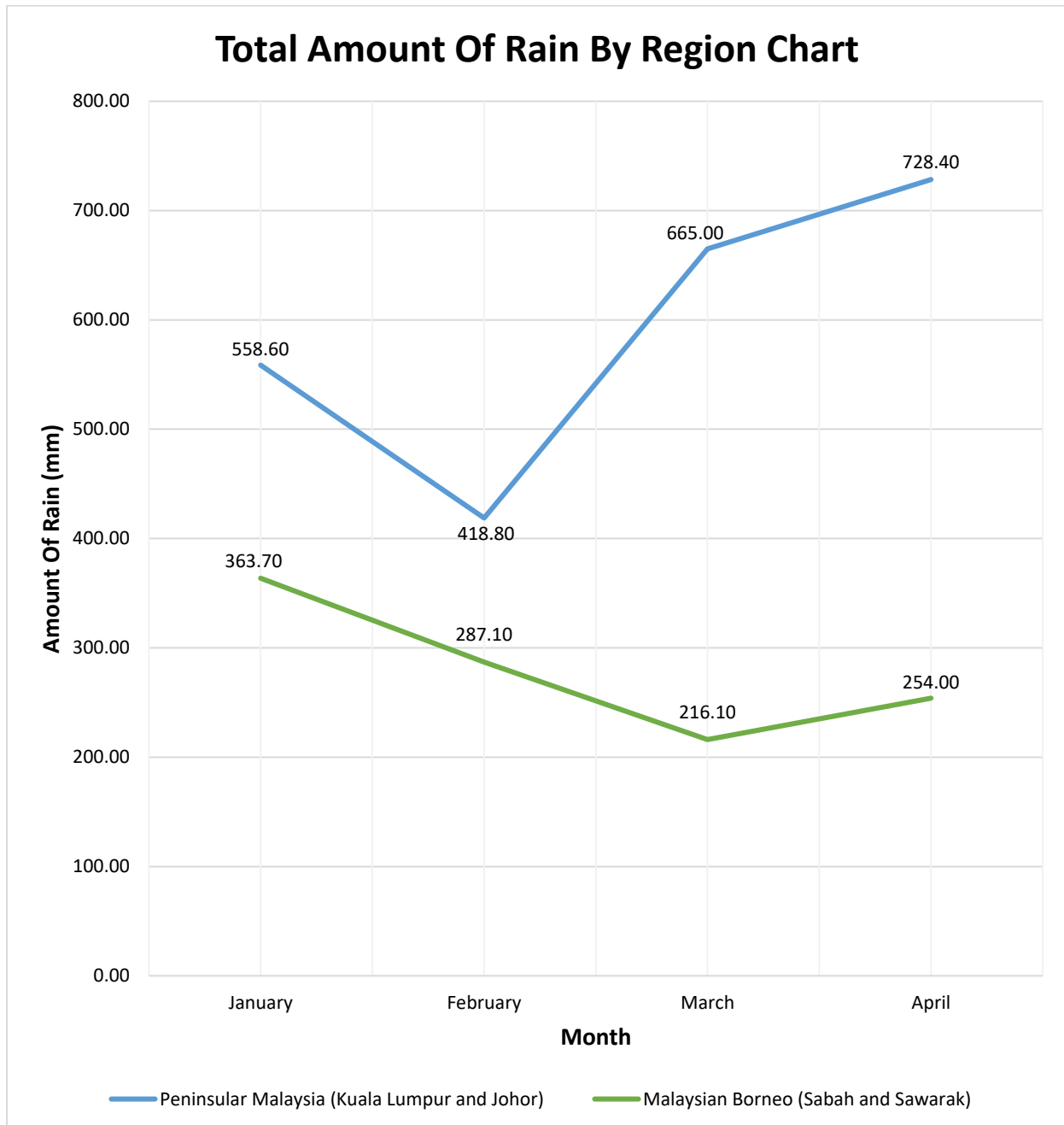
The amount of rainfall in each month in a state is added together where the figure is then added with another state following the respective region that it represents to get the total. In addition, the rainfall in all four month is also added together to arrive at the grand total in which Peninsular Malaysia have the total of 2370.80mm while Malaysian Borneo is only 1120.90mm as shown with the table below.

Summary Of The Rainfall By Region		
Month	Region	
	Peninsular Malaysia (Kuala Lumpur and Johor)	Malaysian Borneo (Sabah and Sawarak)
January	558.60	363.70
February	418.80	287.10
March	665.00	216.10
April	728.40	254.00
Total	2370.80	1120.90

Table 1: Summary of the rainfall by region

Justification

By observing the chart, it can be clearly seen that the total amount of rainfall in the Peninsular Malaysia is higher in every month (January to April) than in Malaysian Borneo. Even the grand total in the Peninsular Malaysia doubled in amount higher with the difference of 1249.90mm. This means that it can be proven that the data analyzed can substantiate the hypothesis.



Graph 1: Total amount of rain by region chart

- **Hypothesis 2** - The Peninsular Malaysia will experience a higher UV index than the Malaysian Borneo

Results

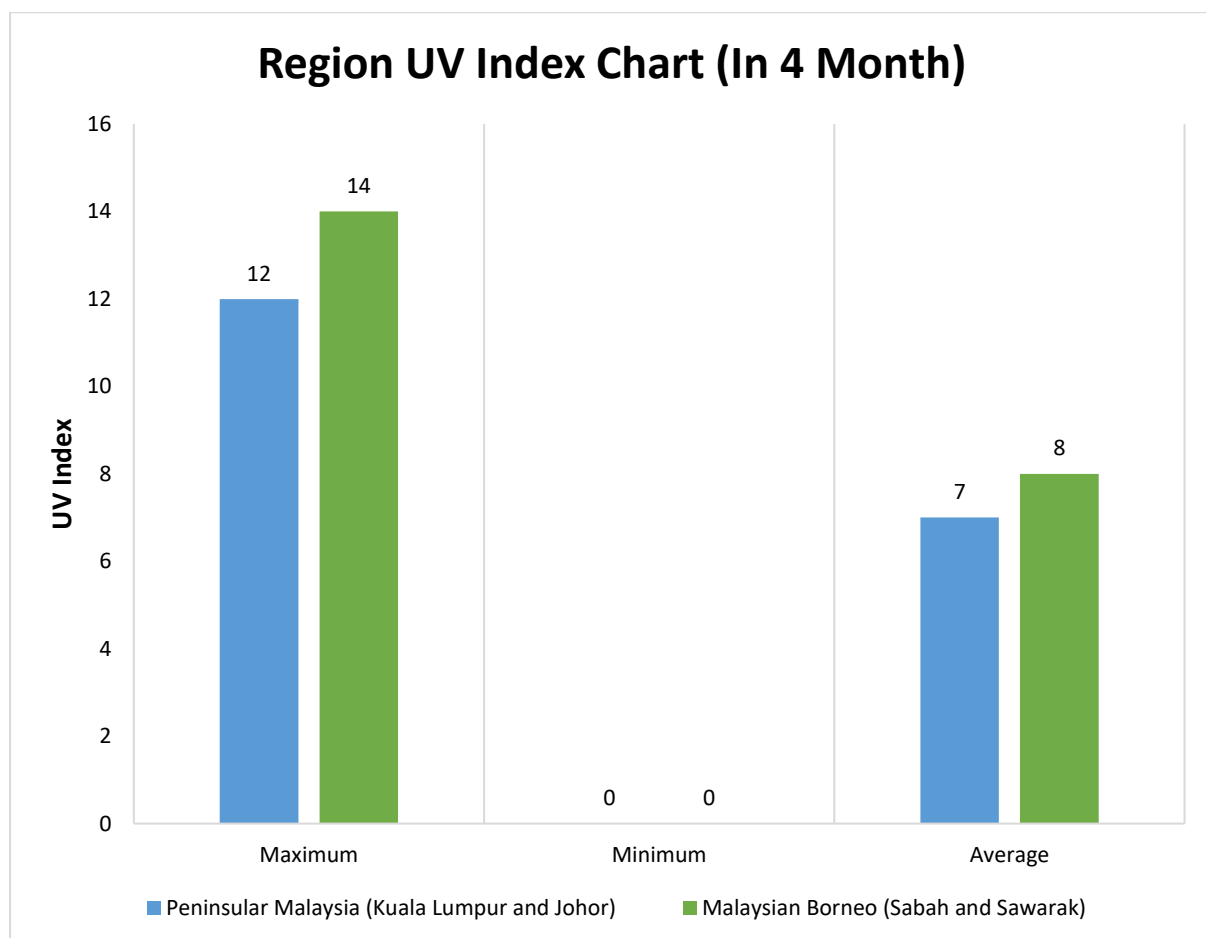
Both the minimum and maximum are found by using a formula that search for the lowest as well as the highest value in the range of data. Meanwhile, the average is calculated by dividing the total UV index and the total number of days (all 4 month). As a result, it shows that the Peninsular Malaysia have an average UV index of 7 while the Malaysian Borneo at 8. The maximum UV index for Peninsular Malaysia is 12 but the Malaysian Borneo is 14 just like the table shown below.

Summary Of The UV Index By Region			
Region	Maximum	Minimum	Average
Peninsular Malaysia (Kuala Lumpur and Johor)	12	0	7
Malaysian Borneo (Sabah and Sawarak)	14	0	8

Table 2: Summary of the UV index by region

Justification

The chart shows that the Peninsular Malaysia have a lower average UV index than the Malaysian Borneo by the difference of 1 while in the maximum average, the Peninsular Malaysia again have a lower UV index (Margin of 2). However, the minimum UV index for both regions are the same at 0. Overall, the Peninsular indeed have a lower UV index than the Malaysian Borneo. Thus, this proves that the data analyzed can refute the hypothesis.



Graph 2: Region UV index chart (In 4 month)

Chapter 4 – Conclusion

In conclusion, based on the all the analysis done, it can be concluded that the first hypothesis can be substantiated as the total amount of rainfall (on every month) in the Peninsular Malaysia is higher than in Malaysian Borneo. As a result, the grand total amount of rainfall in Peninsular Malaysia is also higher. On the other hand, the second can be refuted. This is because in the second hypothesis, the Peninsular Malaysia has a lower UV index than the Malaysian Borneo. However, the analyzed data used to justify both hypotheses can still be improved with the increase of the range of the collected data such as adding more states to the data collection to increase the accuracy. Finally, using the information gathered, an infographic is created to showcase the analyzed data and hypotheses.

Chapter 5 – References

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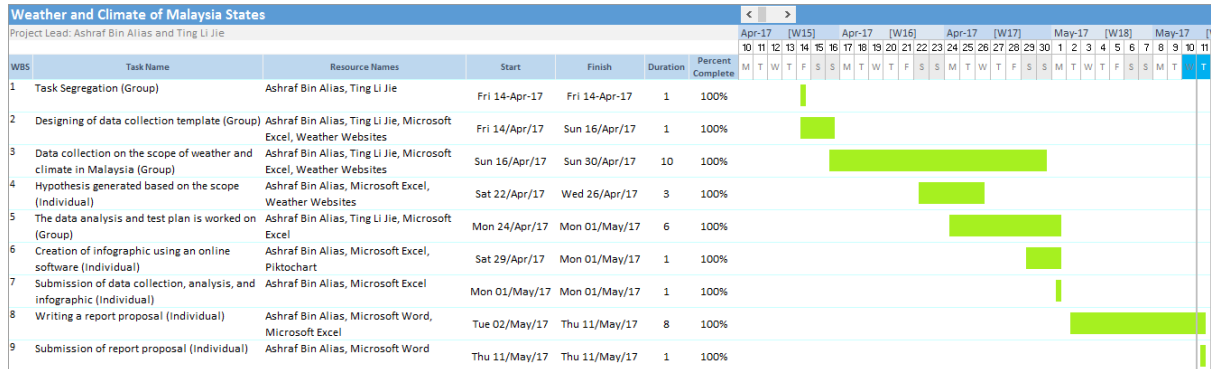
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Chapter 6 – Appendices

6.1 Project Gantt chart



Appendix 1: The project Gantt chart

Weather

Appendix 2: Weather (January)

Appendix 3: Weather (February)

Appendix 4: Weather (March)

April												
Date	Morning	Afternoon	Night	Morning	Afternoon	Night	Morning	Afternoon	Night	Morning	Afternoon	Night
1-Apr	Partly Cloudy	Mostly Cloudy	Mostly Cloudy	Partly Sunny	Mostly Cloudy	Light Rain	Overcast	Overcast	Overcast	Mostly Cloudy	Mostly Cloudy	Passing Clouds
2-Apr	Light Rain	Mostly Cloudy	Mostly Cloudy	Partly Sunny	Mostly Cloudy	Sprinkles	Overcast	Overcast	Overcast	Partly Sunny	Mostly Cloudy	Rain
3-Apr	Light Rain	Mostly Cloudy	Mostly Cloudy	Light Rain	Partly Sunny	Partly Cloudy	Overcast	Overcast	Overcast	Light Rain	Mostly Cloudy	Partly Sunny
4-Apr	Partly Cloudy	Mostly Cloudy	Mostly Cloudy	Partly Sunny	Mostly Cloudy	Partly Cloudy	Light Rain	Overcast	Overcast	Light Rain	Mostly Cloudy	Thunderstorm
5-Apr	Partly Cloudy	Mostly Cloudy	Mostly Cloudy	Partly Sunny	Mostly Cloudy	Partly Cloudy	Overcast	Overcast	Overcast	Partly Sunny	Mostly Cloudy	Partly Cloudy
6-Apr	Partly Cloudy	Mostly Cloudy	Mostly Cloudy	Partly Sunny	Partly Sunny	Partly Cloudy	Overcast	Overcast	Overcast	Partly Sunny	Mostly Cloudy	Light Rain
7-Apr	Partly Cloudy	Mostly Cloudy	Mostly Cloudy	Light Rain	Partly Sunny	Partly Cloudy	Overcast	Overcast	Overcast	Fog	Mostly Cloudy	Light Rain
8-Apr	Partly Cloudy	Mostly Cloudy	Mostly Cloudy	Partly Sunny	Light Rain	Partly Cloudy	Overcast	Overcast	Overcast	Mostly Cloudy	Mostly Cloudy	Thunderstorm
9-Apr	Passing Clouds	Partly Sunny	Mostly Cloudy	Partly Sunny	Partly Sunny	Partly Cloudy	Overcast	Overcast	Overcast	Partly Sunny	Partly Sunny	Partly Cloudy
10-Apr	Mostly Cloudy	Mostly Cloudy	Mostly Cloudy	Thunderstorm	Partly Cloudy	Partly Cloudy	Overcast	Overcast	Overcast	Partly Sunny	Mostly Cloudy	Partly Cloudy
11-Apr	Mostly Cloudy	Mostly Cloudy	Mostly Cloudy	Partly Sunny	Partly Sunny	Light Rain	Overcast	Overcast	Overcast	Mostly Cloudy	Mostly Cloudy	Light Rain
12-Apr	Partly Cloudy	Mostly Cloudy	Thunderstorm	Rain	Partly Sunny	Partly Cloudy	Overcast	Partly Sunny	Passing Clouds	Mostly Cloudy	Mostly Cloudy	Partly Cloudy
13-Apr	Partly Cloudy	Mostly Cloudy	Mostly Cloudy	Strong Thunderstorm	Mostly Cloudy	Thunderstorm	Overcast	Overcast	Thunderstorm	Mostly Cloudy	Thunderstorm	Partly Cloudy
14-Apr	Partly Cloudy	Partly Sunny	Light Rain	Mostly Cloudy	Partly Cloudy	Partly Cloudy	Partly Sunny	Partly Sunny	Overcast	Mostly Cloudy	Partly Sunny	Passing Clouds
15-Apr	Partly Cloudy	Mostly Cloudy	Mostly Cloudy	Partly Sunny	Mostly Cloudy	Mostly Cloudy	Partly Sunny	Overcast	Overcast	Partly Sunny	Mostly Cloudy	Passing Clouds
16-Apr	Passing Clouds	Mostly Cloudy	Light Rain	Partly Sunny	Partly Sunny	Light Rain	Overcast	Overcast	Light Rain	Mostly Cloudy	Mostly Cloudy	Light Rain
17-Apr	Passing Clouds	Partly Sunny	Thunderstorm	Partly Sunny	Light Rain	Thunderstorm	Overcast	Overcast	Light Rain	Partly Sunny	Mostly Cloudy	Partly Cloudy
18-Apr	Partly Sunny	Mostly Cloudy	Thunderstorm	Mostly Cloudy	Mostly Cloudy	Partly Cloudy	Overcast	Thunderstorm	Overcast	Mostly Cloudy	Mostly Cloudy	Light Rain
19-Apr	Partly Sunny	Partly Sunny	Thunderstorm	Partly Sunny	Partly Sunny	Partly Cloudy	Overcast	Overcast	Overcast	Mostly Cloudy	Mostly Cloudy	Passing Clouds
20-Apr	Partly Sunny	Partly Sunny	Thunderstorm	Strong Thunderstorm	Partly Cloudy	Strong Thunderstorm	Strong Thunderstorm	Strong Thunderstorm	Strong Thunderstorm	Strong Thunderstorm	Overcast	Strong Thunderstorm
21-Apr	Partly Sunny	Partly Sunny	Thunderstorm	Strong Thunderstorm	Mostly Cloudy	Strong Thunderstorm	Overcast	Overcast	Strong Thunderstorm	Strong Thunderstorm	Mostly Cloudy	Mostly Cloudy
22-Apr	Thunderstorm	Partly Sunny	Partly Cloudy	Strong Thunderstorm	Light Rain	Passing Clouds	Thunderstorm	Light Rain	Overcast	Partly Sunny	Thunderstorm	Light Rain
23-Apr	Partly Sunny	Partly Sunny	Partly Cloudy	Thunderstorm	Thunderstorm	Passing Clouds	Overcast	Overcast	Overcast	Partly Sunny	Partly Cloudy	Partly Cloudy
24-Apr	Thunderstorm	Partly Sunny	Passing Clouds	Thunderstorm	Strong Thunderstorm	Passing Clouds	Overcast	Overcast	Overcast	Partly Sunny	Sprinkles	Partly Cloudy
25-Apr	Partly Sunny	Partly Sunny	Thunderstorm	Strong Thunderstorm	Strong Thunderstorm	Passing Clouds	Overcast	Overcast	Overcast	Partly Sunny	Partly Sunny	Partly Cloudy
26-Apr	Partly Sunny	Sprinkles	Thunderstorm	Strong Thunderstorm	Strong Thunderstorm	Partly Cloudy	Overcast	Overcast	Overcast	Partly Cloudy	Partly Cloudy	Partly Cloudy
27-Apr	Partly Sunny	Partly Sunny	Thunderstorm	Strong Thunderstorm	Strong Thunderstorm	Thunderstorm	Overcast	Overcast	Overcast	Partly Sunny	Partly Sunny	Strong Thunderstorm
28-Apr	Partly Sunny	Strong Thunderstorm	Partly Cloudy	Partly Sunny	Light Rain	Passing Clouds	Overcast	Overcast	Overcast	Fog	Partly Cloudy	Thunderstorm
29-Apr	Partly Sunny	Thunderstorm	Light Rain	Partly Sunny	Sprinkles	Passing Clouds	Overcast	Overcast	Overcast	Partly Sunny	Strong Thunderstorm	Light Rain
30-Apr	Partly Cloudy	Thunderstorm	Light Rain	Partly Sunny	Thunderstorm	Passing Clouds	Overcast	Overcast	Overcast	Fog	Thunderstorm	Partly Cloudy

Appendix 5: Weather (April)

Wind Speed (km/h)												
January												
Date	Maximum	Average	Maximum	Average	Maximum	Average	Maximum	Average	Maximum	Average	Maximum	Average
1-Jan	11.00	5.00	23.00	6.00	13.00	6.00	16.00	6.00				
2-Jan	14.00	3.00	14.00	3.00	11.00	6.00	14.00	5.00				
3-Jan	10.00	3.00	10.00	3.00	14.00	6.00	14.00	5.00				
4-Jan	16.00	6.00	13.00	5.00	29.00	5.00	23.00	5.00				
5-Jan	14.00	6.00	8.00	3.00	13.00	6.00	24.00	3.00				
6-Jan	19.00	5.00	10.00	3.00	14.00	6.00	14.00	5.00				
7-Jan	23.00	10.00	14.00	3.00	11.00	5.00	11.00	5.00				
8-Jan	14.00	6.00	11.00	3.00	11.00	6.00	19.00	5.00				
9-Jan	11.00	5.00	13.00	5.00	13.00	6.00	14.00	5.00				
10-Jan	16.00	3.00	14.00	5.00	13.00	6.00	14.00	3.00				
11-Jan	11.00	5.00	13.00	5.00	13.00	8.00	21.00	6.00				
12-Jan	13.00	5.00	11.00	3.00	14.00	6.00	21.00	6.00				
13-Jan	27.00	5.00	11.00	2.00	10.00	6.00	13.00	6.00				
14-Jan	16.00	6.00	10.00	3.00	13.00	6.00	21.00	5.00				
15-Jan	26.00	8.00	14.00	3.00	13.00	6.00	19.00	5.00				
16-Jan	19.00	8.00	11.00	5.00	11.00	8.00	23.00	3.00				
17-Jan	16.00	5.00	13.00	5.00	19.00	8.00	19.00	5.00				
18-Jan	14.00	3.00	13.00	5.00	11.00	6.00	19.00	5.00				
19-Jan	19.00	3.00	21.00	5.00	13.00	6.00	16.00	5.00				
20-Jan	13.00	6.00	14.00	5.00	14.00	8.00	16.00	6.00				
21-Jan	8.00	2.00	26.00	5.00	13.00	6.00	14.00	5.00				
22-Jan	19.00	3.00	23.00	8.00	11.00	6.00	16.00	5.00				
23-Jan	14.00	6.00	11.00	3.00	11.00	5.00	14.00	5.00				
24-Jan	11.00	5.00	10.00	3.00	11.00	6.00	23.00	8.00				
25-Jan	16.00	6.00	16.00	6.00	11.00	5.00	16.00	6.00				
26-Jan	19.00	5.00	19.00	5.00	13.00	5.00	16.00	3.00				
27-Jan	10.00	5.00	33.00	15.00	11.00	6.00	29.00	5.00				
28-Jan	19.00	3.00	16.00	8.00	13.00	6.00	19.00	6.00				
29-Jan	16.00	2.00	13.00	6.00	10.00	5.00	16.00	6.00				
30-Jan	14.00	5.00	13.00	5.00	16.00	6.00	14.00	5.00				
31-Jan	11.00	5.00	16.00	5.00	10.00	5.00	19.00	6.00				

February												
Date	Maximum	Average	Maximum	Average	Maximum	Average	Maximum	Average	Maximum	Average	Maximum	Average
1-Feb	16.00	3.00	14.00	5.00	11.00	5.00	16.00	6.00				
2-Feb	11.00	5.00	11.00	5.00	10.00	3.00	24.00	6.00				
3-Feb	21.00	5.00	14.00	6.00	11.00	6.00	19.00	5.00				
4-Feb	21.00	6.00	16.00	5.00	18.00	6.00	21.00	6.00				
5-Feb	19.00	5.00	14.00	5.00	13.00	6.00	19.00	6.00				
6-Feb	21.00	8.00	14.00	5.00	14.00	8.00	21.00	6.00				
7-Feb	19.00	8.00	16.00	3.00	11.00	8.00	23.00	6.00				
8-Feb	19.00	8.00	14.00	3.00	16.00	8.00	16.00	6.00				
9-Feb	21.00	6.00	13.00	5.00	13.00	8.00	21.00	6.00				
10-Feb	19.00	8.00	19.00	6.00	14.00	8.00	24.00	6.00				
11-Feb	13.00	5.00	24.00	10.00	13.00	6.00	21.00	6.00				
12-Feb	13.00	6.00	23.00	11.00	13.00	8.00	19.00	6.00				
13-Feb	16.00	5.00	34.00	10.00	16.00	8.00	21.00	6.00				
14-Feb	11.00	3.00	29.00	13.00	19.00	10.00	19.00	10.00				
15-Feb	19.00	5.00	23.00	10.00	16.00	8.00	21.00	8.00				
16-Feb	13.00	6.00	24.00	11.00	14.00	6.00	13.00	6.00				
17-Feb	11.00	5.00	19.00	6.00	21.00	6.00	14.00	5.00				
18-Feb	16.00	3.00	23.00	8.00	16.00	6.00	16.00	6.00				
19-Feb	16.00	6.00	23.00	10.00	14.00	5.00	23.00	5.00				
20-Feb	21.00	3.00	21.00	6.00	13.00	8.00	14.00	3.00				
21-Feb	14.00	8.00	14.00	5.00	14.00	6.00	13.00	5.00				
22-Feb	19.00	5.00	21.00	5.00	10.00	5.00	19.00	6.00				
23-Feb	19.00	5.00	19.00	3.00	10.00	5.00	21.00	6.00				
24-Feb	13.00	5.00	13.00	3.00	13.00	5.00	19.00	6.00				
25-Feb	14.00	5.00	24.00	5.00	11.00	5.00	13.00	5.00				
26-Feb	16.00	5.00	19.00	5.00	13.00	8.00	13.00	3.00				
27-Feb	10.00	3.00	27.00	8.00	11.00	6.00	16.00	5.00				
28-Feb	11.00	5.00	16.00	5.00	14.00	5.00	14.00	5.00				

Appendix 6: Wind speed (January and February)

March								April										
Date	Maximum	Average	Maximum	Average	Maximum	Average	Maximum	Average	Date	Maximum	Average	Maximum	Average	Maximum	Average	Maximum	Average	Colour Code
1-Mar	11.00	3.00	14.00	6.00	16.00	6.00	19.00	6.00	1-Apr	13.00	5.00	8.00	2.00	10.00	5.00	24.00	3.00	Kuala Lumpur
2-Mar	14.00	5.00	24.00	6.00	16.00	6.00	19.00	5.00	2-Apr	14.00	6.00	13.00	3.00	13.00	5.00	21.00	5.00	Johor
3-Mar	19.00	5.00	14.00	8.00	14.00	6.00	19.00	5.00	3-Apr	19.00	6.00	10.00	3.00	16.00	5.00	14.00	8.00	Sabah
4-Mar	16.00	3.00	13.00	3.00	11.00	5.00	19.00	5.00	4-Apr	21.00	8.00	13.00	5.00	11.00	5.00	13.00	5.00	Sarawak
5-Mar	19.00	6.00	21.00	5.00	14.00	5.00	24.00	5.00	5-Apr	16.00	8.00	14.00	5.00	11.00	5.00	16.00	3.00	
6-Mar	21.00	5.00	14.00	5.00	16.00	5.00	19.00	5.00	6-Apr	14.00	6.00	11.00	5.00	16.00	6.00	16.00	3.00	
7-Mar	13.00	3.00	13.00	5.00	14.00	6.00	19.00	5.00	7-Apr	16.00	3.00	21.00	6.00	14.00	5.00	23.00	5.00	
8-Mar	16.00	5.00	20.00	16.00	14.00	5.00	19.00	6.00	8-Apr	14.00	6.00	14.00	3.00	14.00	6.00	21.00	5.00	
9-Mar	21.00	3.00	21.00	8.00	13.00	3.00	14.00	5.00	9-Apr	14.00	5.00	16.00	3.00	24.00	6.00	19.00	3.00	
10-Mar	21.00	5.00	13.00	5.00	13.00	5.00	16.00	6.00	10-Apr	11.00	5.00	11.00	5.00	13.00	6.00	19.00	5.00	
11-Mar	19.00	5.00	19.00	5.00	8.00	5.00	16.00	5.00	11-Apr	23.00	5.00	10.00	3.00	14.00	8.00	19.00	3.00	
12-Mar	19.00	6.00	11.00	3.00	13.00	3.00	23.00	5.00	12-Apr	16.00	3.00	13.00	3.00	13.00	6.00	16.00	5.00	
13-Mar	21.00	6.00	16.00	3.00	37.00	8.00	11.00	5.00	13-Apr	14.00	3.00	13.00	3.00	19.00	6.00	21.00	5.00	
14-Mar	16.00	5.00	14.00	5.00	11.00	6.00	26.00	5.00	14-Apr	19.00	3.00	14.00	3.00	14.00	6.00	16.00	6.00	
15-Mar	16.00	5.00	13.00	5.00	14.00	6.00	14.00	5.00	15-Apr	23.00	6.00	14.00	5.00	13.00	6.00	37.00	8.00	
16-Mar	19.00	5.00	14.00	5.00	13.00	6.00	11.00	5.00	16-Apr	23.00	3.00	16.00	3.00	11.00	6.00	19.00	5.00	
17-Mar	21.00	5.00	19.00	5.00	16.00	6.00	21.00	6.00	17-Apr	11.00	2.00	19.00	5.00	14.00	5.00	14.00	5.00	
18-Mar	16.00	3.00	14.00	3.00	11.00	5.00	11.00	3.00	18-Apr	11.00	5.00	11.00	3.00	13.00	3.00	24.00	5.00	
19-Mar	16.00	3.00	16.00	5.00	13.00	6.00	19.00	3.00	19-Apr	16.00	5.00	13.00	3.00	14.00	6.00	23.00	5.00	
20-Mar	16.00	5.00	11.00	5.00	13.00	6.00	23.00	5.00	20-Apr	14.00	3.00	11.00	3.00	11.00	5.00	10.00	3.00	
21-Mar	23.00	8.00	14.00	5.00	11.00	6.00	13.00	6.00	21-Apr	16.00	5.00	11.00	3.00	13.00	8.00	24.00	5.00	
22-Mar	24.00	8.00	24.00	5.00	11.00	8.00	14.00	5.00	22-Apr	14.00	3.00	16.00	5.00	19.00	6.00	14.00	5.00	
23-Mar	13.00	3.00	14.00	5.00	13.00	8.00	14.00	5.00	23-Apr	18.00	3.00	19.00	3.00	11.00	6.00	13.00	3.00	
24-Mar	16.00	3.00	11.00	3.00	16.00	6.00	23.00	5.00	24-Apr	11.00	8.00	13.00	3.00	11.00	6.00	14.00	5.00	
25-Mar	16.00	6.00	19.00	5.00	23.00	6.00	14.00	6.00	25-Apr	14.00	8.00	32.00	3.00	13.00	8.00	16.00	5.00	
26-Mar	23.00	3.00	24.00	5.00	11.00	6.00	16.00	5.00	26-Apr	11.00	9.00	11.00	3.00	10.00	5.00	19.00	5.00	
27-Mar	16.00	6.00	19.00	5.00	11.00	6.00	21.00	6.00	27-Apr	10.00	10.00	11.00	3.00	14.00	10.00	23.00	8.00	
28-Mar	14.00	3.00	13.00	3.00	10.00	5.00	13.00	6.00	28-Apr	14.00	9.00	13.00	5.00	10.00	6.00	16.00	5.00	
29-Mar	13.00	3.00	13.00	3.00	11.00	6.00	14.00	5.00	29-Apr	16.00	5.00	10.00	3.00	11.00	8.00	27.00	5.00	
30-Mar	11.00	5.00	10.00	3.00	11.00	5.00	13.00	6.00	30-Apr	16.00	5.00	11.00	5.00	10.00	6.00	14.00	5.00	
31-Mar	14.00	5.00	11.00	3.00	14.00	6.00	34.00	5.00										

Humidity (%)												
January												
Date	Maximum	Average	Minimum	Maximum	Average	Minimum	Maximum	Average	Minimum	Maximum	Average	Minimum
1-Jan	94.00	82.00	59.00	100.00	88.00	74.00	94.00	81.00	63.00	100.00	85.00	65.00
2-Jan	100.00	87.00	70.00	100.00	92.00	67.00	94.00	79.00	59.00	100.00	81.00	51.00
3-Jan	94.00	83.00	62.00	100.00	93.00	78.00	89.00	83.00	61.00	100.00	88.00	60.00
4-Jan	100.00	79.00	62.00	100.00	89.00	70.00	94.00	82.00	62.00	100.00	89.00	57.00
5-Jan	89.00	73.00	58.00	100.00	85.00	65.00	94.00	87.00	63.00	100.00	89.00	58.00
6-Jan	89.00	72.00	55.00	100.00	85.00	61.00	94.00	80.00	58.00	100.00	87.00	62.00
7-Jan	79.00	70.00	55.00	100.00	81.00	46.00	94.00	77.00	58.00	100.00	83.00	55.00
8-Jan	89.00	69.00	49.00	100.00	81.00	50.00	89.00	80.00	60.00	100.00	82.00	60.00
9-Jan	84.00	70.00	44.00	100.00	84.00	55.00	94.00	79.00	56.00	94.00	83.00	60.00
10-Jan	89.00	75.00	52.00	100.00	85.00	56.00	89.00	73.00	50.00	100.00	86.00	62.00
11-Jan	94.00	74.00	52.00	100.00	86.00	63.00	89.00	75.00	54.00	94.00	80.00	53.00
12-Jan	89.00	76.00	59.00	100.00	81.00	57.00	94.00	78.00	57.00	94.00	82.00	50.00
13-Jan	94.00	83.00	62.00	100.00	88.00	61.00	94.00	78.00	61.00	94.00	80.00	44.00
14-Jan	94.00	78.00	56.00	100.00	86.00	61.00	94.00	79.00	58.00	100.00	82.00	43.00
15-Jan	94.00	77.00	55.00	100.00	85.00	62.00	94.00	80.00	61.00	100.00	89.00	58.00
16-Jan	100.00	82.00	66.00	94.00	83.00	62.00	89.00	75.00	55.00	100.00	90.00	70.00
17-Jan	94.00	82.00	59.00	100.00	86.00	60.00	89.00	78.00	57.00	100.00	86.00	51.00
18-Jan	94.00	83.00	55.00	100.00	90.00	59.00	89.00	81.00	62.00	100.00	89.00	66.00
19-Jan	94.00	84.00	59.00	100.00	89.00	64.00	94.00	83.00	62.00	100.00	85.00	51.00
20-Jan	94.00	85.00	66.00	100.00	91.00	70.00	94.00	84.00	61.00	100.00	86.00	66.00
21-Jan	100.00	84.00	66.00	100.00	90.00	70.00	94.00	89.00	68.00	100.00	86.00	66.00
22-Jan	94.00	77.00	52.00	100.00	91.00	79.00	94.00	89.00	74.00	100.00	86.00	64.00
23-Jan	94.00	88.00	70.00	100.00	98.00	94.00	94.00	81.00	64.00	100.00	83.00	60.00
24-Jan	100.00	94.00	89.00	100.00	97.00	94.00	89.00	82.00	62.00	100.00	91.00	63.00
25-Jan	100.00	88.00	62.00	100.00	88.00	69.00	94.00	83.00	70.00	100.00	86.00	65.00
26-Jan	100.00	89.00	59.00	100.00	89.00	75.00	94.00	83.00	59.00	100.00	86.00	61.00
27-Jan	100.00	87.00	62.00	100.00	88.00	70.00	94.00	78.00	57.00	100.00	94.00	74.00
28-Jan	94.00	85.00	58.00	100.00	87.00	68.00	94.00	77.00	58.00	100.00	92.00	70.00
29-Jan	100.00	83.00	58.00	94.00	86.00	73.00	89.00	78.00	62.00	100.00	87.00	70.00
30-Jan	94.00	85.00	62.00	100.00	92.00	84.00	94.00	81.00	62.00	100.00	88.00	74.00
31-Jan	94.00	85.00	66.00	100.00	84.00	60.00	89.00	82.00	67.00	100.00	84.00	66.00

Appendix 8: Humidity (January)

February												
Date	Maximum	Average	Minimum	Maximum	Average	Minimum	Maximum	Average	Minimum	Maximum	Average	Minimum
1-Feb	94.00	86.00	74.00	100.00	84.00	62.00	94.00	88.00	74.00	100.00	83.00	59.00
2-Feb	94.00	82.00	66.00	94.00	83.00	57.00	94.00	87.00	69.00	100.00	87.00	57.00
3-Feb	94.00	76.00	52.00	100.00	84.00	56.00	100.00	88.00	74.00	100.00	90.00	65.00
4-Feb	84.00	73.00	52.00	97.00	86.00	66.00	94.00	84.00	70.00	100.00	87.00	66.00
5-Feb	94.00	79.00	56.00	100.00	88.00	63.00	94.00	84.00	70.00	100.00	84.00	60.00
6-Feb	94.00	79.00	59.00	100.00	86.00	55.00	95.00	89.00	72.00	94.00	82.00	60.00
7-Feb	89.00	79.00	62.00	100.00	91.00	70.00	89.00	78.00	56.00	100.00	79.00	58.00
8-Feb	100.00	80.00	62.00	100.00	89.00	66.00	88.00	73.00	54.00	94.00	77.00	43.00
9-Feb	89.00	74.00	46.00	100.00	84.00	65.00	89.00	77.00	58.00	100.00	75.00	46.00
10-Feb	89.00	71.00	46.00	100.00	81.00	54.00	89.00	82.00	68.00	94.00	81.00	57.00
11-Feb	89.00	69.00	49.00	94.00	82.00	59.00	94.00	78.00	55.00	94.00	86.00	72.00
12-Feb	78.00	63.00	46.00	100.00	87.00	74.00	89.00	72.00	50.00	100.00	86.00	66.00
13-Feb	83.00	66.00	52.00	100.00	90.00	71.00	89.00	66.00	48.00	100.00	89.00	74.00
14-Feb	94.00	73.00	55.00	100.00	85.00	67.00	83.00	63.00	45.00	100.00	82.00	64.00
15-Feb	83.00	71.00	55.00	100.00	92.00	79.00	88.00	67.00	46.00	100.00	93.00	83.00
16-Feb	83.00	65.00	49.00	94.00	86.00	69.00	89.00	75.00	56.00	100.00	90.00	74.00
17-Feb	94.00	75.00	52.00	100.00	83.00	57.00	89.00	79.00	61.00	100.00	81.00	56.00
18-Feb	94.00	78.00	49.00	100.00	86.00	66.00	100.00	84.00	54.00	100.00	86.00	60.00
19-Feb	94.00	79.00	59.00	96.00	84.00	65.00	94.00	85.00	64.00	100.00	87.00	61.00
20-Feb	94.00	81.00	59.00	100.00	84.00	62.00	94.00	83.00	67.00	100.00	84.00	55.00
21-Feb	89.00	83.00	66.00	100.00	87.00	60.00	89.00	77.00	60.00	100.00	84.00	62.00
22-Feb	100.00	82.00	63.00	100.00	87.00	63.00	89.00	77.00	55.00	95.00	91.00	74.00
23-Feb	94.00	84.00	63.00	100.00	91.00	58.00	89.00	79.00	58.00	100.00	84.00	60.00
24-Feb	94.00	86.00	66.00	100.00	95.00	79.00	100.00	87.00	62.00	100.00	82.00	58.00
25-Feb	100.00	86.00	63.00	100.00	89.00	67.00	100.00	85.00	66.00	100.00	91.00	79.00
26-Feb	94.00	83.00	62.00	100.00	86.00	63.00	94.00	81.00	63.00	100.00	77.00	47.00
27-Feb	94.00	89.00	70.00	100.00	84.00	66.00	94.00	77.00	56.00	100.00	86.00	62.00
28-Feb	100.00	84.00	62.00	100.00	93.00	84.00	89.00	80.00	66.00	100.00	91.00	70.00

Appendix 9: Humidity (February)

	March											
Date	Maximum	Average	Minimum	Maximum	Average	Minimum	Maximum	Average	Minimum	Maximum	Average	Minimum
1-Mar	100.00	85.00	70.00	100.00	94.00	79.00	94.00	81.00	60.00	100.00	90.00	70.00
2-Mar	100.00	84.00	62.00	100.00	89.00	68.00	94.00	79.00	54.00	100.00	89.00	70.00
3-Mar	94.00	79.00	59.00	100.00	92.00	79.00	94.00	79.00	53.00	100.00	90.00	62.00
4-Mar	94.00	81.00	59.00	100.00	95.00	79.00	89.00	79.00	61.00	100.00	93.00	88.00
5-Mar	94.00	89.00	70.00	100.00	86.00	64.00	94.00	80.00	57.00	100.00	92.00	74.00
6-Mar	100.00	87.00	63.00	100.00	87.00	66.00	89.00	78.00	62.00	100.00	81.00	51.00
7-Mar	100.00	83.00	59.00	100.00	85.00	62.00	89.00	79.00	59.00	100.00	85.00	62.00
8-Mar	94.00	80.00	52.00	100.00	83.00	58.00	94.00	80.00	59.00	94.00	79.00	58.00
9-Mar	94.00	80.00	49.00	100.00	81.00	55.00	94.00	85.00	67.00	94.00	82.00	57.00
10-Mar	94.00	74.00	49.00	95.00	84.00	60.00	94.00	83.00	62.00	100.00	79.00	53.00
11-Mar	94.00	75.00	52.00	95.00	87.00	58.00	94.00	82.00	57.00	100.00	82.00	61.00
12-Mar	89.00	74.00	52.00	95.00	90.00	79.00	94.00	87.00	67.00	100.00	90.00	67.00
13-Mar	94.00	75.00	49.00	100.00	88.00	56.00	94.00	80.00	60.00	100.00	84.00	55.00
14-Mar	94.00	81.00	52.00	100.00	88.00	70.00	89.00	71.00	52.00	100.00	83.00	49.00
15-Mar	94.00	75.00	49.00	100.00	78.00	49.00	89.00	77.00	57.00	100.00	85.00	47.00
16-Mar	89.00	79.00	55.00	100.00	87.00	61.00	89.00	75.00	50.00	100.00	82.00	55.00
17-Mar	94.00	82.00	59.00	100.00	93.00	69.00	89.00	79.00	65.00	100.00	82.00	55.00
18-Mar	94.00	84.00	59.00	100.00	88.00	60.00	94.00	81.00	66.00	100.00	86.00	63.00
19-Mar	94.00	87.00	59.00	100.00	87.00	58.00	89.00	79.00	57.00	100.00	83.00	54.00
20-Mar	94.00	87.00	74.00	100.00	89.00	73.00	89.00	78.00	65.00	94.00	84.00	63.00
21-Mar	94.00	77.00	55.00	99.00	83.00	53.00	94.00	78.00	62.00	100.00	81.00	49.00
22-Mar	89.00	73.00	44.00	100.00	88.00	56.00	89.00	78.00	62.00	94.00	77.00	43.00
23-Mar	89.00	77.00	49.00	100.00	84.00	57.00	89.00	77.00	58.00	94.00	78.00	49.00
24-Mar	94.00	85.00	66.00	100.00	85.00	57.00	94.00	83.00	67.00	100.00	83.00	51.00
25-Mar	94.00	79.00	52.00	100.00	87.00	56.00	94.00	86.00	69.00	94.00	83.00	62.00
26-Mar	94.00	83.00	47.00	100.00	85.00	53.00	94.00	80.00	58.00	94.00	80.00	55.00
27-Mar	94.00	79.00	49.00	100.00	84.00	63.00	89.00	81.00	66.00	100.00	79.00	50.00
28-Mar	94.00	86.00	59.00	100.00	94.00	79.00	89.00	78.00	59.00	94.00	84.00	65.00
29-Mar	100.00	85.00	59.00	100.00	92.00	64.00	94.00	85.00	70.00	94.00	82.00	59.00
30-Mar	94.00	81.00	55.00	100.00	97.00	84.00	94.00	82.00	65.00	96.00	86.00	65.00
31-Mar	94.00	81.00	59.00	100.00	90.00	68.00	89.00	83.00	66.00	100.00	82.00	48.00

Appendix 10: Humidity (March)

	April													
Date	Maximum	Average	Minimum	Maximum	Average	Minimum	Maximum	Average	Minimum	Maximum	Average	Minimum	Colour Code	
1-Apr	94.00	86.00	62.00	100.00	93.00	75.00	89.00	81.00	65.00	95.00	84.00	52.00	Kuala Lumpur	Johor
2-Apr	94.00	84.00	66.00	100.00	90.00	64.00	89.00	80.00	45.00	100.00	86.00	59.00		
3-Apr	94.00	80.00	59.00	100.00	90.00	74.00	100.00	88.00	70.00	100.00	80.00	44.00		
4-Apr	94.00	76.00	49.00	100.00	87.00	70.00	94.00	89.00	68.00	100.00	85.00	62.00		
5-Apr	94.00	77.00	55.00	100.00	84.00	65.00	94.00	84.00	66.00	100.00	85.00	54.00	Sabah	Sarawak
6-Apr	89.00	76.00	59.00	96.00	86.00	66.00	94.00	86.00	64.00	100.00	87.00	49.00		
7-Apr	89.00	74.00	49.00	100.00	89.00	66.00	94.00	84.00	62.00	100.00	86.00	47.00		
8-Apr	89.00	77.00	59.00	100.00	93.00	75.00	94.00	83.00	70.00	100.00	85.00	49.00		
9-Apr	94.00	82.00	56.00	100.00	91.00	69.00	100.00	85.00	60.00	100.00	83.00	58.00		
10-Apr	94.00	77.00	59.00	100.00	88.00	63.00	94.00	82.00	65.00	100.00	88.00	54.00		
11-Apr	100.00	86.00	62.00	100.00	87.00	70.00	94.00	80.00	62.00	100.00	86.00	53.00		
12-Apr	100.00	81.00	56.00	100.00	90.00	70.00	89.00	77.00	59.00	100.00	88.00	59.00		
13-Apr	94.00	82.00	59.00	100.00	94.00	75.00	89.00	78.00	57.00	100.00	90.00	68.00		
14-Apr	100.00	85.00	56.00	100.00	90.00	61.00	89.00	78.00	53.00	100.00	81.00	54.00		
15-Apr	94.00	86.00	59.00	100.00	86.00	61.00	94.00	81.00	59.00	100.00	88.00	59.00		
16-Apr	94.00	84.00	56.00	100.00	85.00	56.00	94.00	85.00	71.00	100.00	95.00	74.00		
17-Apr	100.00	78.00	53.00	100.00	83.00	63.00	94.00	83.00	66.00	100.00	83.00	52.00		
18-Apr	94.00	88.00	84.00	94.00	91.00	86.00	94.00	92.00	82.00	100.00	96.00	94.00		
19-Apr	100.00	82.00	59.00	100.00	87.00	62.00	89.00	78.00	62.00	100.00	87.00	55.00		
20-Apr	100.00	86.00	59.00	100.00	86.00	62.00	94.00	80.00	64.00	100.00	86.00	66.00		
21-Apr	94.00	81.00	59.00	100.00	86.00	69.00	89.00	76.00	62.00	100.00	93.00	66.00		
22-Apr	94.00	81.00	62.00	100.00	87.00	65.00	100.00	86.00	78.00	100.00	92.00	68.00		
23-Apr	94.00	73.00	49.00	100.00	91.00	75.00	89.00	75.00	57.00	100.00	87.00	55.00		
24-Apr	94.00	82.00	70.00	100.00	94.00	71.00	89.00	77.00	63.00	100.00	87.00	66.00		
25-Apr	94.00	79.00	59.00	100.00	90.00	65.00	89.00	77.00	58.00	100.00	82.00	55.00		
26-Apr	94.00	89.00	70.00	100.00	90.00	69.00	89.00	78.00	63.00	100.00	85.00	59.00		
27-Apr	94.00	81.00	59.00	100.00	85.00	59.00	89.00	77.00	64.00	100.00	89.00	53.00		
28-Apr	94.00	86.00	62.00	100.00	91.00	70.00	89.00	74.00	54.00	100.00	90.00	52.00		
29-Apr	94.00	81.00	49.00	100.00	86.00	53.00	89.00	71.00	53.00	100.00	89.00	60.00		
30-Apr	94.00	81.00	55.00	100.00	84.00	51.00	89.00	73.00	56.00	100.00	83.00	56.00		

Appendix 11: Humidity (April)

Rainfall									
January					February				
Date	Amount of Rain (mm)	Amount of Rain (mm)	Amount of Rain (mm)	Amount of Rain (mm)	Date	Amount of Rain (mm)	Amount of Rain (mm)	Amount of Rain (mm)	Amount of Rain (mm)
1-Jan	10.30	3.30	0.80	0.30	1-Feb	11.20	4.70	4.30	1.50
2-Jan	12.50	17.80	3.70	4.60	2-Feb	10.90	7.20	3.00	12.50
3-Jan	4.90	5.50	2.20	18.30	3-Feb	2.50	4.30	5.30	17.40
4-Jan	2.50	1.40	2.20	6.50	4-Feb	1.60	0.60	0.70	0.80
5-Jan	0.30	0.90	10.90	1.60	5-Feb	3.10	1.10	0.20	0.20
6-Jan	2.00	1.60	8.80	0.50	6-Feb	4.30	3.10	0.40	0.70
7-Jan	1.30	2.00	0.80	2.30	7-Feb	5.00	10.70	0.00	5.60
8-Jan	0.30	0.40	0.00	0.30	8-Feb	1.50	7.20	0.00	0.00
9-Jan	0.00	0.60	0.00	0.10	9-Feb	1.90	5.00	0.00	0.00
10-Jan	0.60	1.40	0.00	0.90	10-Feb	1.50	1.40	0.00	0.70
11-Jan	0.20	3.30	0.00	0.20	11-Feb	7.20	1.30	0.10	3.00
12-Jan	0.50	1.10	1.10	1.00	12-Feb	2.50	6.40	0.00	3.60
13-Jan	15.60	3.30	0.30	0.80	13-Feb	3.80	4.00	0.00	2.80
14-Jan	13.10	2.50	0.80	0.40	14-Feb	2.10	3.50	0.00	23.20
15-Jan	23.80	12.90	0.10	3.60	15-Feb	3.90	3.20	0.00	18.00
16-Jan	10.50	3.00	0.00	1.20	16-Feb	0.80	0.60	0.10	25.30
17-Jan	15.20	3.80	1.70	2.00	17-Feb	2.60	0.40	13.70	3.00
18-Jan	24.70	3.40	1.30	5.30	18-Feb	6.70	6.60	5.70	5.80
19-Jan	10.10	21.10	2.40	3.60	19-Feb	8.10	3.40	2.20	6.90
20-Jan	30.60	3.10	4.70	7.80	20-Feb	5.40	7.00	3.90	2.40
21-Jan	20.50	3.00	4.80	15.80	21-Feb	16.60	12.10	0.10	4.00
22-Jan	8.00	12.20	3.80	6.20	22-Feb	22.40	8.10	2.00	13.70
23-Jan	7.70	11.20	3.30	0.70	23-Feb	19.80	5.10	15.60	5.90
24-Jan	36.80	20.80	7.90	8.80	24-Feb	26.80	7.50	16.30	18.30
25-Jan	25.30	6.20	1.80	1.70	25-Feb	22.20	18.00	14.00	3.00
26-Jan	17.40	8.30	1.90	0.00	26-Feb	27.70	26.40	7.70	2.50
27-Jan	6.50	7.00	0.40	1.10	27-Feb	9.20	7.40	2.20	1.40
28-Jan	7.90	4.60	0.00	12.20	28-Feb	6.60	7.40	1.00	5.20
29-Jan	8.20	8.60	0.80	179.60					
30-Jan	8.80	10.60	0.00	2.70					
31-Jan	15.70	1.90	5.90	1.20					

Appendix 12: Rainfall (January and February)

March					April					Colour Code	
Date	Amount of Rain (mm)	Amount of Rain (mm)	Amount of Rain (mm)	Amount of Rain (mm)	Date	Amount of Rain (mm)	Amount of Rain (mm)	Amount of Rain (mm)	Amount of Rain (mm)		
1-Mar	3.70	7.60	0.00	20.30	1-Apr	16.60	7.60	1.60	2.30	Kuala Lumpur	
2-Mar	18.20	6.00	1.40	15.10	2-Apr	7.40	3.80	0.90	6.10	Johor	
3-Mar	5.20	5.70	0.90	0.50	3-Apr	3.30	2.40	23.40	7.70	Sabah	
4-Mar	3.90	8.10	0.50	4.30	4-Apr	2.50	0.50	6.20	0.20	Sarawak	
5-Mar	19.10	6.70	1.10	0.90	5-Apr	0.20	0.80	9.10	2.50		
6-Mar	22.90	3.40	2.30	0.40	6-Apr	3.60	4.50	16.40	5.50		
7-Mar	18.30	4.00	1.40	3.20	7-Apr	6.90	1.00	5.20	0.00		
8-Mar	12.20	2.40	1.60	1.20	8-Apr	15.40	8.20	0.90	4.30		
9-Mar	5.80	1.10	2.90	0.60	9-Apr	30.30	7.20	2.00	3.00		
10-Mar	4.60	0.20	7.10	0.00	10-Apr	52.60	1.60	1.20	2.80		
11-Mar	8.80	10.30	6.80	0.40	11-Apr	27.10	2.50	0.20	4.90		
12-Mar	7.00	4.20	4.80	5.20	12-Apr	37.10	10.10	0.00	15.00		
13-Mar	4.50	5.30	0.00	2.90	13-Apr	29.50	7.70	0.70	0.30		
14-Mar	3.40	0.60	0.00	3.90	14-Apr	19.00	24.50	0.90	0.60		
15-Mar	1.50	0.40	0.00	2.60	15-Apr	18.90	23.30	3.60	4.40		
16-Mar	18.30	12.40	0.00	2.40	16-Apr	15.40	8.00	2.90	13.30		
17-Mar	26.20	15.00	1.70	12.00	17-Apr	11.00	13.00	2.20	6.80		
18-Mar	37.20	8.30	2.70	2.90	18-Apr	15.80	14.30	8.30	3.40		
19-Mar	25.20	3.90	0.40	14.30	19-Apr	28.80	1.30	5.00	13.90		
20-Mar	16.30	4.30	0.30	9.90	20-Apr	20.20	7.90	2.40	0.50		
21-Mar	2.50	4.30	2.30	1.30	21-Apr	22.70	4.20	1.60	0.30		
22-Mar	0.90	8.40	1.80	1.00	22-Apr	4.10	4.50	5.50	6.70		
23-Mar	28.10	6.70	0.90	0.50	23-Apr	7.20	0.90	0.20	5.70		
24-Mar	35.40	5.60	3.80	3.80	24-Apr	26.50	7.80	0.30	0.00		
25-Mar	7.10	6.80	5.10	4.10	25-Apr	18.80	19.70	3.60	0.00		
26-Mar	19.30	12.20	2.40	3.10	26-Apr	22.90	8.20	0.30	1.00		
27-Mar	11.60	1.00	2.90	4.20	27-Apr	9.50	1.20	0.00	10.30		
28-Mar	16.00	21.40	2.80	2.60	28-Apr	12.30	5.80	0.00	3.70		
29-Mar	18.70	13.70	7.80	1.70	29-Apr	12.40	0.70	0.00	13.30		
30-Mar	45.70	7.10	5.80	12.30	30-Apr	22.90	4.30	0.00	4.30		
31-Mar	9.50	0.80	3.90	2.50							

Appendix 13: Rainfall (March and April)

Temperature (C°)												
January												
Date	Maximum	Average	Minimum	Maximum	Average	Minimum	Maximum	Average	Minimum	Maximum	Average	Minimum
1-Jan	32.00	28.00	25.00	31.00	28.00	24.00	30.00	27.00	23.00	31.00	28.00	24.00
2-Jan	31.00	28.00	25.00	32.00	28.00	24.00	33.00	28.00	24.00	34.00	29.00	23.00
3-Jan	32.00	28.00	25.00	30.00	27.00	24.00	33.00	29.00	25.00	31.00	28.00	24.00
4-Jan	31.00	27.00	23.00	31.00	27.00	23.00	28.00	27.00	24.00	32.00	28.00	23.00
5-Jan	32.00	29.00	26.00	31.00	27.00	23.00	32.00	28.00	24.00	33.00	28.00	23.00
6-Jan	34.00	30.00	26.00	33.00	28.00	23.00	31.00	27.00	23.00	33.00	28.00	24.00
7-Jan	33.00	30.00	27.00	34.00	29.00	24.00	32.00	28.00	24.00	34.00	29.00	24.00
8-Jan	34.00	30.00	26.00	34.00	29.00	24.00	33.00	29.00	26.00	33.00	29.00	24.00
9-Jan	35.00	30.00	25.00	35.00	30.00	24.00	33.00	29.00	24.00	33.00	29.00	24.00
10-Jan	34.00	30.00	26.00	34.00	29.00	24.00	33.00	29.00	24.00	32.00	28.00	24.00
11-Jan	34.00	30.00	25.00	33.00	29.00	24.00	34.00	29.00	23.00	34.00	29.00	24.00
12-Jan	33.00	29.00	25.00	32.00	28.00	24.00	34.00	29.00	24.00	33.00	29.00	24.00
13-Jan	32.00	29.00	26.00	33.00	28.00	24.00	34.00	29.00	24.00	33.00	29.00	26.00
14-Jan	34.00	29.00	24.00	32.00	28.00	23.00	33.00	29.00	24.00	34.00	29.00	24.00
15-Jan	33.00	29.00	25.00	33.00	29.00	24.00	33.00	29.00	25.00	33.00	28.00	23.00
16-Jan	32.00	28.00	24.00	33.00	28.00	24.00	32.00	28.00	23.00	31.00	27.00	23.00
17-Jan	33.00	29.00	25.00	33.00	28.00	23.00	32.00	27.00	23.00	32.00	28.00	23.00
18-Jan	33.00	29.00	25.00	34.00	29.00	24.00	31.00	27.00	22.00	32.00	28.00	23.00
19-Jan	32.00	28.00	24.00	34.00	29.00	23.00	33.00	28.00	24.00	33.00	28.00	22.00
20-Jan	31.00	27.00	24.00	31.00	27.00	23.00	32.00	28.00	23.00	30.00	27.00	23.00
21-Jan	30.00	28.00	25.00	32.00	28.00	24.00	31.00	28.00	24.00	31.00	27.00	23.00
22-Jan	33.00	28.00	23.00	30.00	27.00	24.00	28.00	26.00	24.00	30.00	27.00	23.00
23-Jan	29.00	27.00	24.00	28.00	26.00	24.00	32.00	27.00	23.00	32.00	28.00	24.00
24-Jan	25.00	24.00	23.00	24.00	23.00	23.00	33.00	29.00	24.00	33.00	28.00	23.00
25-Jan	31.00	27.00	23.00	31.00	26.00	22.00	31.00	28.00	24.00	30.00	27.00	23.00
26-Jan	32.00	27.00	23.00	31.00	27.00	22.00	32.00	28.00	24.00	31.00	27.00	23.00
27-Jan	31.00	27.00	24.00	32.00	28.00	24.00	32.00	28.00	23.00	29.00	27.00	23.00
28-Jan	31.00	27.00	24.00	30.00	27.00	23.00	32.00	28.00	24.00	31.00	27.00	23.00
29-Jan	31.00	27.00	24.00	29.00	27.00	24.00	32.00	29.00	26.00	29.00	26.00	22.00
30-Jan	31.00	27.00	24.00	29.00	27.00	24.00	32.00	28.00	24.00	29.00	26.00	23.00
31-Jan	30.00	27.00	24.00	32.00	28.00	23.00	32.00	28.00	25.00	30.00	27.00	23.00

Appendix 14: Temperature (January)

February												
Date	Maximum	Average	Minimum	Maximum	Average	Minimum	Maximum	Average	Minimum	Maximum	Average	Minimum
1-Feb	29.00	27.00	25.00	32.00	27.00	23.00	29.00	27.00	24.00	31.00	27.00	23.00
2-Feb	30.00	27.00	24.00	32.00	28.00	23.00	31.00	27.00	24.00	32.00	28.00	23.00
3-Feb	33.00	28.00	24.00	34.00	29.00	24.00	29.00	27.00	24.00	31.00	27.00	22.00
4-Feb	34.00	30.00	27.00	33.00	28.00	24.00	32.00	27.00	23.00	31.00	27.00	24.00
5-Feb	34.00	30.00	26.00	33.00	29.00	24.00	32.00	28.00	23.00	31.00	27.00	23.00
6-Feb	33.00	29.00	26.00	34.00	29.00	24.00	28.00	26.00	23.00	31.00	28.00	24.00
7-Feb	32.00	29.00	26.00	31.00	28.00	24.00	31.00	27.00	22.00	30.00	27.00	24.00
8-Feb	32.00	28.00	25.00	33.00	28.00	23.00	31.00	26.00	21.00	31.00	26.00	21.00
9-Feb	34.00	29.00	25.00	32.00	28.00	24.00	32.00	27.00	21.00	31.00	27.00	22.00
10-Feb	34.00	29.00	25.00	33.00	28.00	23.00	32.00	27.00	22.00	31.00	27.00	22.00
11-Feb	33.00	29.00	25.00	32.00	28.00	24.00	33.00	28.00	23.00	29.00	26.00	23.00
12-Feb	33.00	29.00	25.00	28.00	26.00	24.00	33.00	28.00	23.00	31.00	28.00	23.00
13-Feb	33.00	29.00	26.00	29.00	26.00	23.00	32.00	28.00	24.00	29.00	26.00	23.00
14-Feb	32.00	28.00	24.00	31.00	27.00	23.00	32.00	28.00	23.00	30.00	27.00	23.00
15-Feb	32.00	28.00	25.00	28.00	26.00	23.00	32.00	27.00	21.00	27.00	26.00	24.00
16-Feb	33.00	28.00	24.00	29.00	26.00	23.00	32.00	28.00	23.00	27.00	25.00	23.00
17-Feb	34.00	29.00	24.00	32.00	28.00	23.00	32.00	28.00	25.00	31.00	27.00	22.00
18-Feb	35.00	29.00	24.00	31.00	27.00	23.00	32.00	28.00	24.00	31.00	27.00	23.00
19-Feb	33.00	29.00	25.00	32.00	28.00	24.00	31.00	27.00	23.00	31.00	27.00	23.00
20-Feb	34.00	29.00	25.00	33.00	28.00	23.00	31.00	28.00	24.00	31.00	27.00	23.00
21-Feb	32.00	29.00	26.00	33.00	28.00	23.00	33.00	28.00	24.00	31.00	28.00	24.00
22-Feb	33.00	29.00	26.00	32.00	28.00	24.00	33.00	29.00	25.00	29.00	27.00	24.00
23-Feb	34.00	29.00	27.00	33.00	28.00	23.00	32.00	29.00	25.00	31.00	27.00	23.00
24-Feb	33.00	28.00	26.00	28.00	26.00	23.00	32.00	28.00	24.00	31.00	27.00	23.00
25-Feb	34.00	29.00	24.00	33.00	28.00	23.00	31.00	27.00	23.00	27.00	25.00	23.00
26-Feb	33.00	29.00	25.00	32.00	28.00	23.00	32.00	27.00	23.00	32.00	28.00	23.00
27-Feb	31.00	28.00	25.00	31.00	27.00	23.00	32.00	28.00	24.00	31.00	28.00	24.00
28-Feb	32.00	28.00	24.00	29.00	27.00	24.00	31.00	28.00	25.00	30.00	27.00	24.00

Appendix 15: Temperature (February)

	March											
Date	Maximum	Average	Minimum	Maximum	Average	Minimum	Maximum	Average	Minimum	Maximum	Average	Minimum
1-Mar	30.00	27.00	24.00	28.00	26.00	23.00	32.00	28.00	24.00	32.00	28.00	23.00
2-Mar	32.00	28.00	24.00	31.00	27.00	23.00	32.00	28.00	24.00	30.00	27.00	23.00
3-Mar	32.00	28.00	25.00	28.00	26.00	24.00	32.00	28.00	23.00	31.00	28.00	24.00
4-Mar	33.00	28.00	24.00	29.00	26.00	23.00	31.00	27.00	23.00	29.00	27.00	23.00
5-Mar	32.00	28.00	25.00	32.00	28.00	23.00	31.00	28.00	25.00	30.00	27.00	23.00
6-Mar	33.00	28.00	24.00	33.00	28.00	23.00	33.00	29.00	25.00	32.00	28.00	23.00
7-Mar	32.00	28.00	24.00	33.00	28.00	23.00	32.00	28.00	24.00	30.00	27.00	24.00
8-Mar	34.00	29.00	25.00	33.00	28.00	23.00	31.00	27.00	23.00	32.00	28.00	24.00
9-Mar	34.00	29.00	25.00	33.00	28.00	23.00	31.00	28.00	24.00	30.00	27.00	24.00
10-Mar	34.00	29.00	25.00	32.00	27.00	22.00	31.00	27.00	23.00	32.00	28.00	23.00
11-Mar	33.00	29.00	25.00	33.00	28.00	23.00	33.00	29.00	24.00	33.00	29.00	24.00
12-Mar	34.00	29.00	25.00	29.00	26.00	23.00	29.00	27.00	24.00	30.00	27.00	23.00
13-Mar	34.00	29.00	25.00	34.00	28.00	22.00	30.00	26.00	22.00	33.00	28.00	22.00
14-Mar	34.00	29.00	25.00	31.00	27.00	23.00	31.00	27.00	23.00	33.00	28.00	23.00
15-Mar	35.00	30.00	25.00	34.00	29.00	24.00	32.00	28.00	24.00	33.00	28.00	22.00
16-Mar	32.00	29.00	27.00	34.00	29.00	24.00	32.00	27.00	23.00	33.00	24.00	15.00
17-Mar	34.00	29.00	25.00	33.00	28.00	23.00	32.00	28.00	24.00	32.00	27.00	22.00
18-Mar	33.00	29.00	25.00	33.00	28.00	23.00	32.00	28.00	25.00	31.00	27.00	23.00
19-Mar	33.00	29.00	25.00	34.00	29.00	23.00	32.00	28.00	23.00	33.00	28.00	23.00
20-Mar	29.00	27.00	24.00	30.00	27.00	24.00	32.00	28.00	24.00	30.00	27.00	23.00
21-Mar	33.00	28.00	24.00	34.00	29.00	23.00	32.00	28.00	24.00	32.00	28.00	23.00
22-Mar	35.00	30.00	26.00	33.00	28.00	23.00	32.00	28.00	23.00	33.00	28.00	23.00
23-Mar	34.00	30.00	27.00	33.00	29.00	24.00	32.00	28.00	23.00	33.00	28.00	23.00
24-Mar	30.00	28.00	26.00	32.00	28.00	24.00	33.00	29.00	25.00	33.00	28.00	24.00
25-Mar	35.00	30.00	25.00	34.00	29.00	24.00	31.00	28.00	24.00	31.00	28.00	24.00
26-Mar	35.00	30.00	26.00	34.00	29.00	24.00	31.00	28.00	24.00	33.00	29.00	24.00
27-Mar	34.00	29.00	25.00	32.00	28.00	24.00	32.00	28.00	25.00	33.00	28.00	23.00
28-Mar	32.00	28.00	25.00	31.00	28.00	24.00	32.00	28.00	24.00	30.00	27.00	24.00
29-Mar	33.00	29.00	25.00	32.00	28.00	24.00	32.00	29.00	25.00	33.00	28.00	23.00
30-Mar	32.00	28.00	25.00	31.00	27.00	23.00	31.00	27.00	24.00	29.00	27.00	24.00
31-Mar	32.00	29.00	26.00	32.00	28.00	23.00	32.00	28.00	24.00	34.00	29.00	24.00

Appendix 16: Temperature (March)

	April													
Date	Maximum	Average	Minimum	Maximum	Average	Minimum	Maximum	Average	Minimum	Maximum	Average	Minimum	Colour Code	
1-Apr	32.00	28.00	25.00	32.00	28.00	24.00	32.00	28.00	25.00	33.00	28.00	23.00	Kuala Lumpur	
2-Apr	31.00	28.00	25.00	32.00	28.00	24.00	31.00	28.00	24.00	32.00	27.00	22.00	Johor	
3-Apr	32.00	28.00	25.00	31.00	27.00	24.00	32.00	28.00	24.00	33.00	28.00	23.00	Sabah	
4-Apr	33.00	29.00	25.00	33.00	29.00	24.00	31.00	27.00	23.00	32.00	27.00	23.00	Sarawak	
5-Apr	33.00	29.00	25.00	33.00	28.00	24.00	31.00	27.00	24.00	32.00	28.00	23.00		
6-Apr	32.00	29.00	26.00	33.00	28.00	24.00	31.00	28.00	24.00	33.00	28.00	23.00		
7-Apr	34.00	30.00	26.00	34.00	28.00	23.00	32.00	28.00	24.00	34.00	29.00	23.00		
8-Apr	33.00	29.00	26.00	31.00	28.00	24.00	32.00	28.00	24.00	33.00	28.00	23.00		
9-Apr	34.00	29.00	25.00	33.00	28.00	23.00	34.00	29.00	25.00	33.00	28.00	24.00		
10-Apr	32.00	28.00	25.00	33.00	28.00	23.00	32.00	28.00	23.00	33.00	28.00	23.00		
11-Apr	32.00	28.00	25.00	32.00	28.00	24.00	33.00	29.00	24.00	33.00	28.00	23.00		
12-Apr	34.00	29.00	25.00	31.00	28.00	25.00	32.00	28.00	24.00	32.00	28.00	24.00		
13-Apr	34.00	29.00	25.00	31.00	28.00	24.00	33.00	29.00	25.00	31.00	27.00	23.00		
14-Apr	35.00	30.00	25.00	32.00	28.00	23.00	33.00	29.00	24.00	32.00	28.00	23.00		
15-Apr	34.00	30.00	26.00	32.00	28.00	23.00	33.00	29.00	25.00	33.00	28.00	23.00		
16-Apr	35.00	30.00	25.00	34.00	29.00	23.00	33.00	29.00	25.00	29.00	27.00	23.00		
17-Apr	35.00	30.00	25.00	34.00	29.00	24.00	32.00	28.00	24.00	34.00	29.00	24.00		
18-Apr	31.00	27.00	24.00	34.00	29.00	24.00	31.00	28.00	26.00	33.00	29.00	24.00		
19-Apr	33.00	28.00	24.00	34.00	28.00	22.00	33.00	29.00	24.00	33.00	29.00	24.00		
20-Apr	33.00	29.00	25.00	33.00	28.00	23.00	33.00	29.00	26.00	32.00	28.00	24.00		
21-Apr	33.00	29.00	25.00	32.00	28.00	24.00	32.00	28.00	24.00	31.00	28.00	24.00		
22-Apr	32.00	28.00	24.00	32.00	28.00	24.00	28.00	27.00	24.00	32.00	28.00	23.00		
23-Apr	34.00	29.00	24.00	32.00	28.00	23.00	33.00	28.00	23.00	33.00	28.00	23.00		
24-Apr	32.00	29.00	26.00	33.00	29.00	24.00	33.00	28.00	24.00	33.00	28.00	23.00		
25-Apr	32.00	29.00	25.00	33.00	28.00	23.00	32.00	29.00	25.00	33.00	28.00	23.00		
26-Apr	30.00	27.00	24.00	30.00	27.00	23.00	33.00	29.00	26.00	32.00	28.00	24.00		
27-Apr	32.00	28.00	24.00	34.00	29.00	24.00	33.00	29.00	26.00	33.00	28.00	23.00		
28-Apr	32.00	28.00	24.00	32.00	27.00	23.00	34.00	29.00	25.00	33.00	28.00	23.00		
29-Apr	34.00	29.00	23.00	32.00	28.00	24.00	33.00	29.00	24.00	33.00	28.00	23.00		
30-Apr	33.00	29.00	24.00	34.00	29.00	24.00	34.00	29.00	25.00	33.00	28.00	23.00		

Appendix 17: Temperature (April)

Cloud Cover (%)									
January					February				
Date	Kuala Lumpur	Johor	Sabah	Sarawak	Date	Kuala Lumpur	Johor	Sabah	Sarawak
1-Jan	43.75	45.25	52.75	28.00	1-Feb	61.00	39.00	30.50	48.75
2-Jan	67.75	63.50	55.25	36.75	2-Feb	53.50	57.50	27.00	61.00
3-Jan	80.25	53.00	17.00	45.75	3-Feb	29.00	40.75	37.75	92.75
4-Jan	49.25	70.25	47.00	47.25	4-Feb	29.00	48.50	31.50	40.25
5-Jan	36.50	62.50	50.00	37.50	5-Feb	18.50	40.25	13.75	62.00
6-Jan	33.75	37.50	55.00	47.75	6-Feb	19.00	39.50	57.25	49.00
7-Jan	39.25	16.75	50.75	39.00	7-Feb	21.75	56.50	34.25	54.75
8-Jan	15.00	12.00	46.75	25.50	8-Feb	20.25	59.75	2.75	31.25
9-Jan	4.00	21.75	14.50	28.00	9-Feb	31.00	38.50	11.00	35.25
10-Jan	26.75	45.00	2.50	52.75	10-Feb	23.00	40.00	18.25	48.75
11-Jan	14.25	31.00	3.50	29.00	11-Feb	32.50	39.75	34.00	34.00
12-Jan	32.50	22.00	8.75	22.75	12-Feb	33.50	66.50	25.50	31.75
13-Jan	36.00	55.25	16.75	30.25	13-Feb	40.25	83.00	22.75	38.00
14-Jan	27.75	40.75	11.75	35.25	14-Feb	27.50	78.75	12.75	62.75
15-Jan	33.50	31.25	12.75	61.25	15-Feb	43.00	96.75	17.00	80.25
16-Jan	24.50	29.25	7.50	38.00	16-Feb	46.00	73.50	22.00	83.50
17-Jan	30.75	48.00	38.25	41.50	17-Feb	53.50	69.75	59.25	65.50
18-Jan	50.25	55.25	30.50	54.00	18-Feb	35.75	84.25	50.75	80.00
19-Jan	27.75	32.00	30.50	39.00	19-Feb	40.25	71.00	37.75	44.25
20-Jan	40.75	34.25	38.75	39.00	20-Feb	50.00	66.25	41.75	50.50
21-Jan	38.75	47.75	39.75	56.75	21-Feb	48.75	48.25	21.25	72.00
22-Jan	44.75	60.25	37.75	30.00	22-Feb	41.50	51.00	41.75	61.00
23-Jan	64.25	59.75	30.50	53.25	23-Feb	29.75	33.75	42.25	46.00
24-Jan	98.75	86.25	40.00	49.50	24-Feb	39.75	43.75	74.00	76.25
25-Jan	62.00	71.00	65.25	65.25	25-Feb	35.25	49.00	29.75	81.75
26-Jan	53.75	63.75	24.75	42.50	26-Feb	39.50	27.75	29.25	54.25
27-Jan	58.50	90.25	8.25	66.00	27-Feb	47.75	55.25	35.00	40.00
28-Jan	52.00	95.25	8.50	67.00	28-Feb	38.00	77.75	42.00	34.75
29-Jan	62.00	78.25	18.00	100.00					
30-Jan	66.00	53.00	19.00	100.00					
31-Jan	53.75	50.50	38.25	72.50					

Appendix 18: Cloud cover (January and February)

March					April				
Date	Kuala Lumpur	Johor	Sabah	Sarawak	Date	Kuala Lumpur	Johor	Sabah	Sarawak
1-Mar	66.00	66.75	19.75	72.50	1-Apr	40.25	47.50	29.50	42.25
2-Mar	67.25	88.25	5.50	75.25	2-Apr	73.50	85.00	66.75	48.50
3-Mar	50.00	53.50	9.00	28.75	3-Apr	47.25	53.50	70.00	45.75
4-Mar	60.75	29.50	12.25	39.25	4-Apr	70.00	29.50	76.00	39.00
5-Mar	37.25	25.75	7.25	35.75	5-Apr	33.25	17.25	51.75	48.25
6-Mar	25.50	16.00	11.25	74.75	6-Apr	25.00	16.00	44.00	50.50
7-Mar	30.25	28.50	22.25	72.75	7-Apr	29.25	28.50	33.00	7.25
8-Mar	43.75	20.50	24.50	67.00	8-Apr	34.25	20.50	33.75	22.50
9-Mar	31.00	35.25	50.25	57.00	9-Apr	29.25	35.25	12.75	45.00
10-Mar	38.50	45.25	26.25	25.50	10-Apr	40.50	39.50	8.75	36.75
11-Mar	32.00	37.25	39.50	28.50	11-Apr	38.25	37.50	8.75	41.25
12-Mar	34.25	20.25	16.00	75.25	12-Apr	29.00	20.25	0.00	41.00
13-Mar	25.00	49.00	16.00	75.00	13-Apr	37.00	49.00	1.25	13.50
14-Mar	42.75	45.75	14.00	48.50	14-Apr	43.50	45.75	5.75	31.25
15-Mar	29.50	34.75	10.25	30.25	15-Apr	41.25	34.75	14.50	33.75
16-Mar	39.00	42.00	8.00	46.00	16-Apr	25.00	44.00	20.25	63.00
17-Mar	25.00	35.00	18.25	39.50	17-Apr	25.00	35.00	22.75	28.50
18-Mar	45.00	33.00	24.75	49.00	18-Apr	26.75	33.00	47.75	40.00
19-Mar	33.25	22.00	11.75	48.25	19-Apr	29.25	22.00	18.25	47.00
20-Mar	35.00	38.00	9.00	56.75	20-Apr	29.25	23.00	16.50	64.00
21-Mar	19.25	34.50	17.25	65.50	21-Apr	28.75	27.75	1.25	48.00
22-Mar	30.50	47.50	38.25	17.75	22-Apr	44.75	38.00	14.75	68.50
23-Mar	49.50	56.50	19.75	40.00	23-Apr	49.25	4.50	0.00	36.00
24-Mar	35.75	44.50	53.00	45.75	24-Apr	41.00	35.25	1.75	22.25
25-Mar	45.00	37.25	34.00	46.25	25-Apr	34.00	36.75	12.50	9.25
26-Mar	31.00	22.75	21.50	54.50	26-Apr	48.50	55.00	0.00	25.75
27-Mar	32.25	35.50	29.00	37.75	27-Apr	39.50	63.25	0.00	49.00
28-Mar	34.25	49.75	36.50	49.50	28-Apr	21.25	55.00	0.00	76.25
29-Mar	48.75	25.25	66.75	49.25	29-Apr	42.25	44.00	0.00	71.25
30-Mar	50.00	29.75	30.75	67.75	30-Apr	39.00	33.50	2.25	54.75
31-Mar	49.25	27.25	26.00	49.25					

Appendix 19: Cloud cover (March and April)

Estimated UV Index									
	January					February			
Date	Kuala Lumpur	Johor	Sabah	Sarawak	Date	Kuala Lumpur	Johor	Sabah	Sarawak
1-Jan	7	7	5	11	1-Feb	4	8	7	9
2-Jan	4	5	4	10	2-Feb	5	6	7	7
3-Jan	2	6	8	8	3-Feb	8	8	6	1
4-Jan	6	4	5	8	4-Feb	8	7	7	11
5-Jan	8	5	5	10	5-Feb	9	8	9	7
6-Jan	8	8	4	8	6-Feb	9	8	4	9
7-Jan	8	11	5	9	7-Feb	8	6	7	8
8-Jan	11	12	5	12	8-Feb	9	5	10	13
9-Jan	12	10	8	11	9-Feb	7	8	9	12
10-Jan	9	7	9	7	10-Feb	8	8	8	9
11-Jan	11	9	9	11	11-Feb	7	8	7	12
12-Jan	8	10	9	12	12-Feb	7	4	7	13
13-Jan	8	6	8	11	13-Feb	6	2	8	11
14-Jan	9	8	9	10	14-Feb	8	3	9	7
15-Jan	8	9	8	6	15-Feb	6	0	8	4
16-Jan	9	9	9	10	16-Feb	6	3	8	3
17-Jan	9	7	6	9	17-Feb	5	4	4	6
18-Jan	6	6	7	7	18-Feb	7	2	5	4
19-Jan	9	9	7	9	19-Feb	6	4	6	10
20-Jan	7	9	6	9	20-Feb	5	4	6	9
21-Jan	8	7	6	7	21-Feb	5	7	8	5
22-Jan	7	5	6	11	22-Feb	6	6	6	7
23-Jan	4	5	7	7	23-Feb	8	9	6	10
24-Jan	0	2	6	8	24-Feb	6	7	3	4
25-Jan	5	4	3	5	25-Feb	7	7	7	3
26-Jan	6	5	7	9	26-Feb	6	10	7	8
27-Jan	5	1	9	5	27-Feb	6	6	6	11
28-Jan	6	1	9	5	28-Feb	7	3	6	12
29-Jan	5	3	8	0					
30-Jan	4	6	8	0					
31-Jan	6	6	6	4					

Appendix 20: Estimated UV index (January and February)

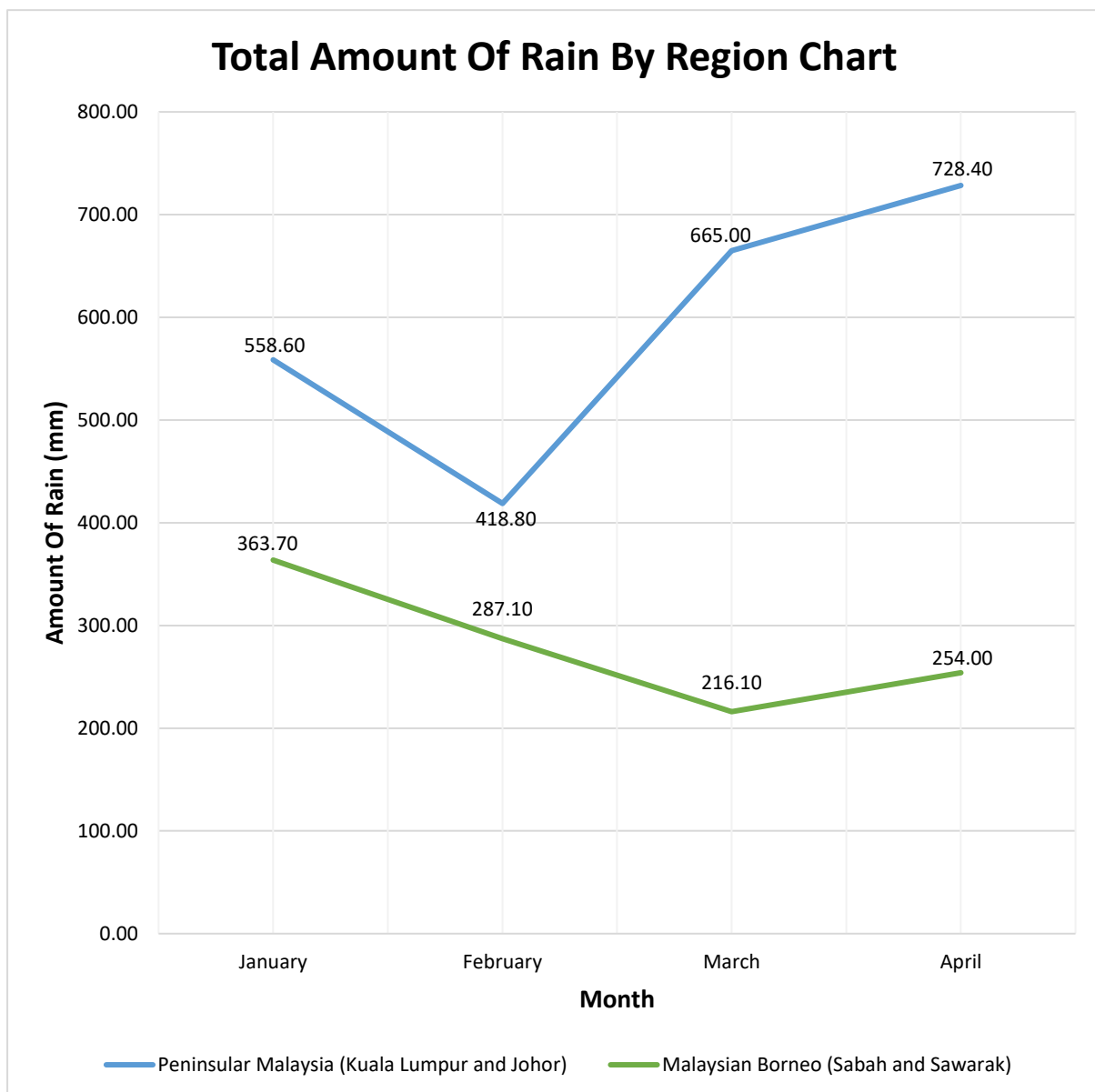
March					April						
Date	Kuala Lumpur	Johor	Sabah	Sarawak	Date	Kuala Lumpur	Johor	Sabah	Sarawak	Kuala Lumpur UV Multiplier	
1-Mar	3	4	7	5	1-Apr	6	5	6	8	January	4442.7
2-Mar	3	1	9	4	2-Apr	3	2	3	7	February	3834.9
3-Mar	5	5	8	12	3-Apr	6	5	3	7	March	3656.6
4-Mar	4	8	8	11	4-Apr	3	7	2	8	April	3733.5
5-Mar	6	8	9	11	5-Apr	7	9	4	7		
6-Mar	8	10	8	4	6-Apr	8	9	5	7	Johor UV Multiplier	
7-Mar	7	8	7	5	7-Apr	7	7	6	12	January	9651.6
8-Mar	6	9	7	6	8-Apr	7	8	6	10	February	9703.4
9-Mar	7	7	5	7	9-Apr	7	7	7	7	March	8401.4
10-Mar	6	6	7	13	10-Apr	6	6	8	9	April	7700.3
11-Mar	7	7	6	12	11-Apr	6	7	8	8		
12-Mar	7	9	8	4	12-Apr	7	8	9	8	Sabah UV Multiplier	
13-Mar	8	6	8	4	13-Apr	7	5	8	12	January	45317.5
14-Mar	6	6	8	9	14-Apr	6	6	8	9	February	47169.8
15-Mar	7	7	8	12	15-Apr	6	7	7	9	March	43396.2
16-Mar	6	7	8	9	16-Apr	8	6	7	5	April	40103.9
17-Mar	8	7	8	10	17-Apr	8	7	7	10		
18-Mar	6	8	7	9	18-Apr	8	7	4	8	Sarawak UV Multiplier	
19-Mar	7	9	8	9	19-Apr	7	8	7	7	January	45540.0
20-Mar	7	7	8	7	20-Apr	7	8	7	5	February	54502.9
21-Mar	8	7	8	6	21-Apr	7	8	8	7	March	51069.7
22-Mar	7	6	6	14	22-Apr	6	6	7	4	April	39686.1
23-Mar	5	5	7	10	23-Apr	5	10	9	9		
24-Mar	7	6	4	9	24-Apr	6	7	8	10		
25-Mar	6	7	6	9	25-Apr	7	7	7	12		
26-Mar	7	9	7	8	26-Apr	5	5	9	10		
27-Mar	7	7	7	11	27-Apr	6	4	9	7		
28-Mar	7	6	6	9	28-Apr	8	5	9	3		
29-Mar	5	9	3	9	29-Apr	6	6	9	4		
30-Mar	5	8	6	6	30-Apr	6	7	8	6		
31-Mar	5	8	7	9							

Appendix 21: Estimated UV index (March and April)

6.3 Tables, figures and charts

Summary Of The Rainfall By Region		
Month	Region	
	Peninsular Malaysia (Kuala Lumpur and Johor)	Malaysian Borneo (Sabah and Sawarak)
January	558.60	363.70
February	418.80	287.10
March	665.00	216.10
April	728.40	254.00
Total	2370.80	1120.90

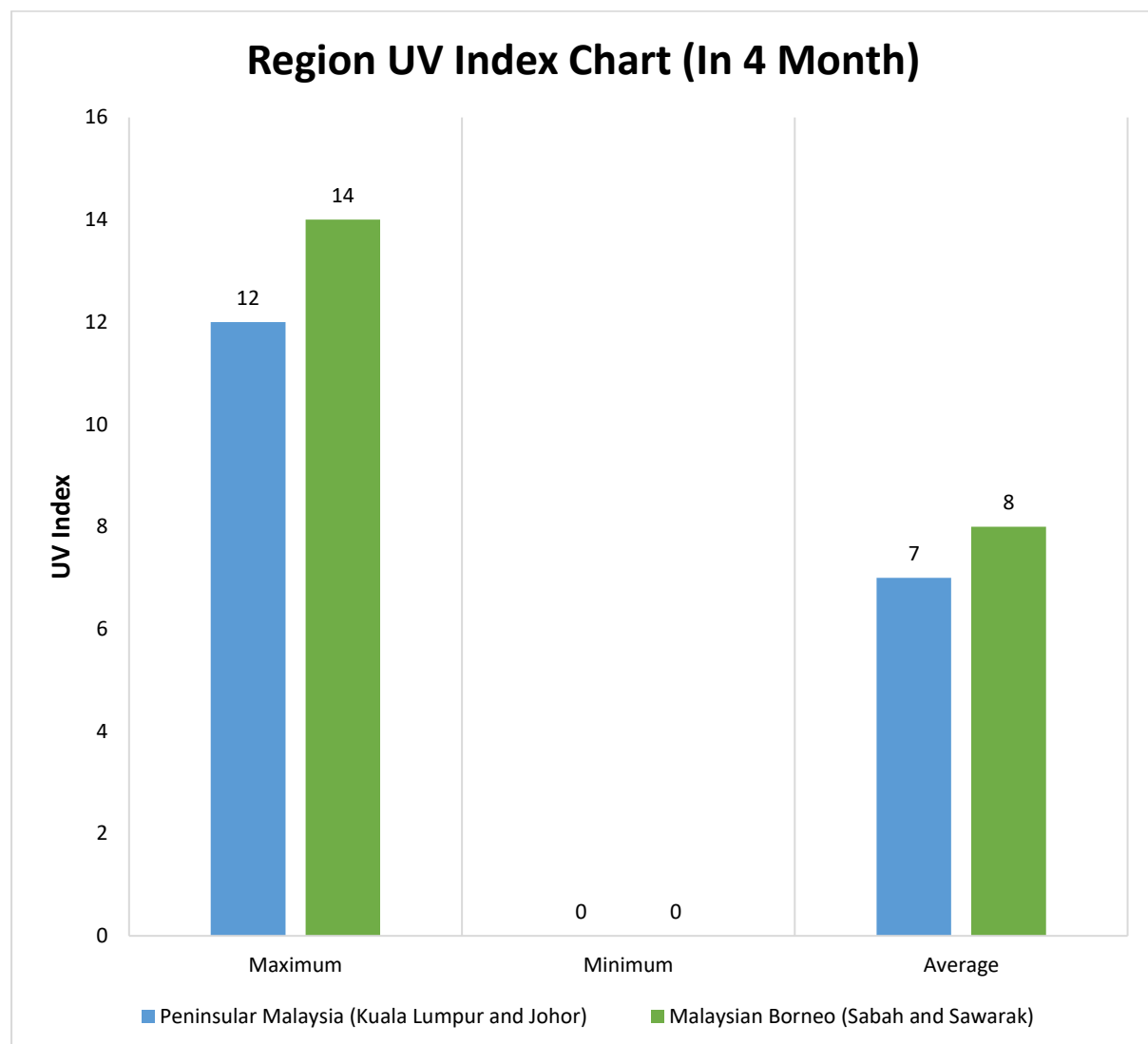
Appendix 22: Summary of the rainfall by region



Appendix 23: Total amount of rain by region chart

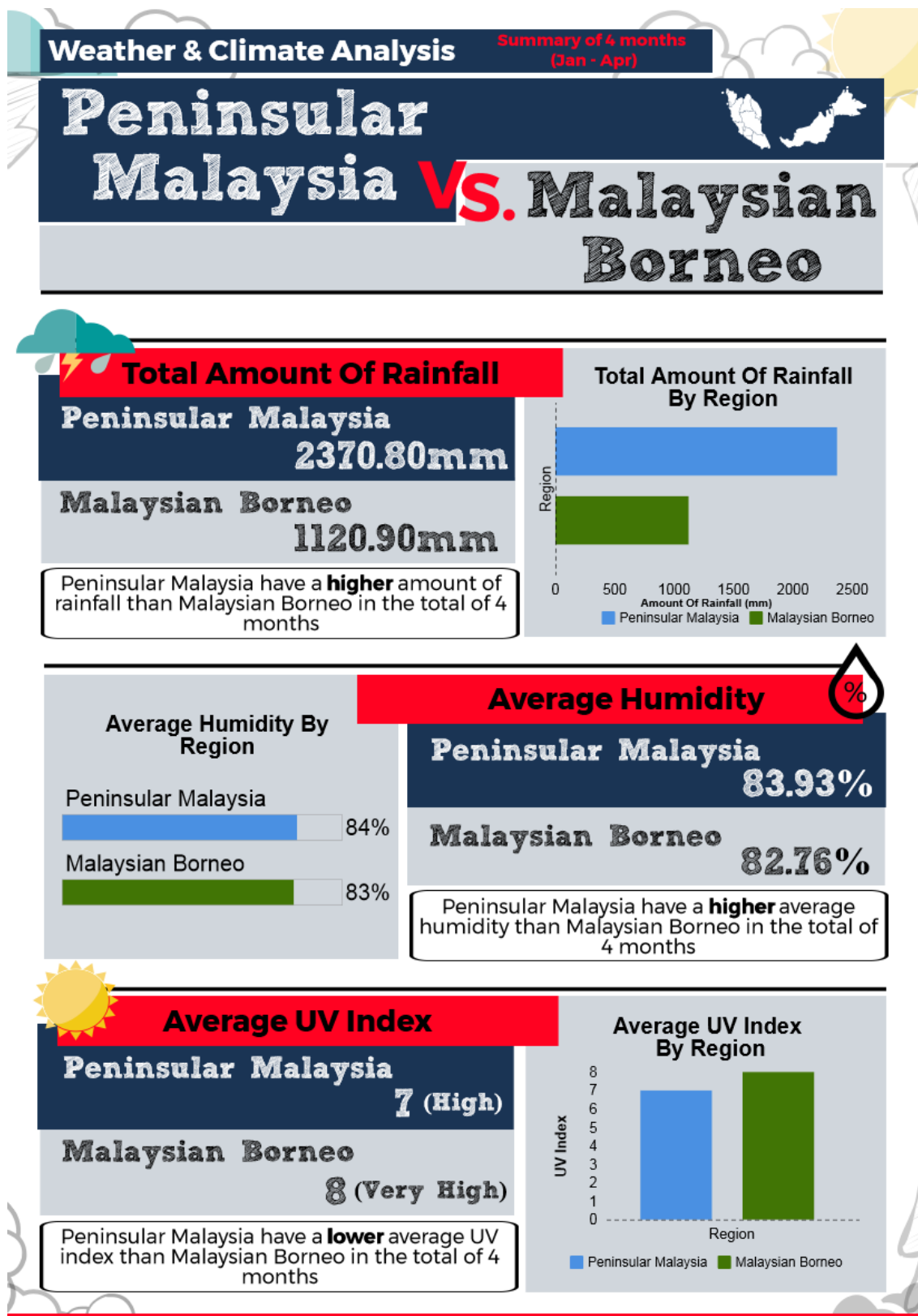
Summary Of The UV Index By Region			
Region	Maximum	Minimum	Average
Peninsular Malaysia (Kuala Lumpur and Johor)	12	0	7
Malaysian Borneo (Sabah and Sawarak)	14	0	8

Appendix 24: Summary of the UV index by region



Appendix 25: Region UV index chart (In 4 month)

6.4 Infographic



Appendix 26: Infographic