

# **WEATHER DATA ACQUISITION FROM SELECTED WILDLIFE SANCTUARIES IN KERALA**

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## **Abstract**

As a part of initiating several ecological studies, four automated weather stations were installed in 1997 in the Peechi-Vazhani Wild Life Sanctuary, Chinnar Wild Life Sanctuary, Silent Valley National Park and Eravikulam National Park. All the stations started operating in 1997 and the hourly weather parameters were collected from all the stations. These parameters include atmospheric temperature, relative humidity, total solar radiation, wind velocity, wind direction, rainfall and soil temperature at two depths (15 cm & 30 cm). The hourly data have been processed using a computer programme developed in KFRI. Using this, the hourly data have been condensed into daily averages, maximum and minimum and presented in this report. This has been further condensed to monthly averages, maximum and minimum. The wind velocity and direction have been given as Windrose diagrams.

A further analysis of the data has been done using elevation of the four locations as a function. This showed a typical variation in an elevational gradient in the Western Ghats, taking into account the special features of a rain shadow location, namely, Chinnar Wild Life Sanctuary. It is possible to do a number of further analyses using this data. Arrangements are also made to supply the hourly data on computer disks because of the extensive nature of the data.

## INTRODUCTION

Information on environmental parameters is an essential prerequisite for research and management aspects in forestry. The fact that such measurements have to be done continuously makes the whole exercise very demanding. Manually operated weather stations have been functioning at many locations in the country during the past couple of centuries. However, such stations are rare in forest areas, mainly because of the remoteness of these locations. Even if weather stations are established, the continuous operation of them have proved to be difficult. Because of these problems, forest meteorology is still at an infant stage in India.

The recent revolution in the field of electronics has had an enormous impact on our ability to record environmental and atmospheric parameters. Development of the microprocessor had in particular led to rapid advancements in this area. Twenty years ago, it was difficult to find a suitable automated weather station to acquire atmospheric and other environmental parameters. Now, highly sophisticated and programmable dataloggers are available that can collect and process data from a number of electronic sensors connected to it. These systems, usually run on solar powered cells and have sufficient memory which allows data to be stored for several months before extraction. Another advantage is the high frequency at which data can be collected. Thus, such systems have allowed research that was previously impossible, too expensive and too difficult to attempt. For example, hourly atmospheric data are highly useful in growth and evapotranspiration modelling in forest ecosystems.

The Western Ghats are a range of mountains with variable climatic conditions. This is mainly due to the gradient in elevation and also the highly variable rainfall experienced by the eastern and western sides of these mountainous ranges. The result is high variability in forest ecosystems and therefore biodiversity. A large number of research investigations has been undertaken in different locations of the Western Ghats. However, very few of them have been supported by climatic data. This has made interpretation of the data rather speculative. The present project is the result of recognition of this drawback.

Establishment of suitable meteorological recording stations in four Wildlife Sanctuaries (WLS) / National Parks (NP) located at different altitudes is expected to provide meteorological data to the Kerala Forest Department and researchers. This report gives details of the establishment of the above stations and daily data summaries during the project period. It also interprets the micro meteorological data from the point of elevational differences of the four locations.

## INSTRUMENTS AND METHODS

### *Installation*

All the four locations mentioned in this study were provided with automated weather stations ( Model SDL 2990; Skye Instruments, UK). The stations were installed on the top of a 5 m steel tower permanently fixed to the ground. It is recognised that it would have been scientifically more ideal to have installed the instruments at a lower level from the ground (say 1.5 m) . However, the remoteness of three sites out of four and the possible threat to the instruments from elephants, monkeys and other animals were the reasons to keep the instruments at a higher level. Errors caused by the above problem can be considered negligible in forest meteorology. Geographic details of locations of the weather stations in the sanctuaries are given below:

Table 1. Geographic details of locations of automated weather stations

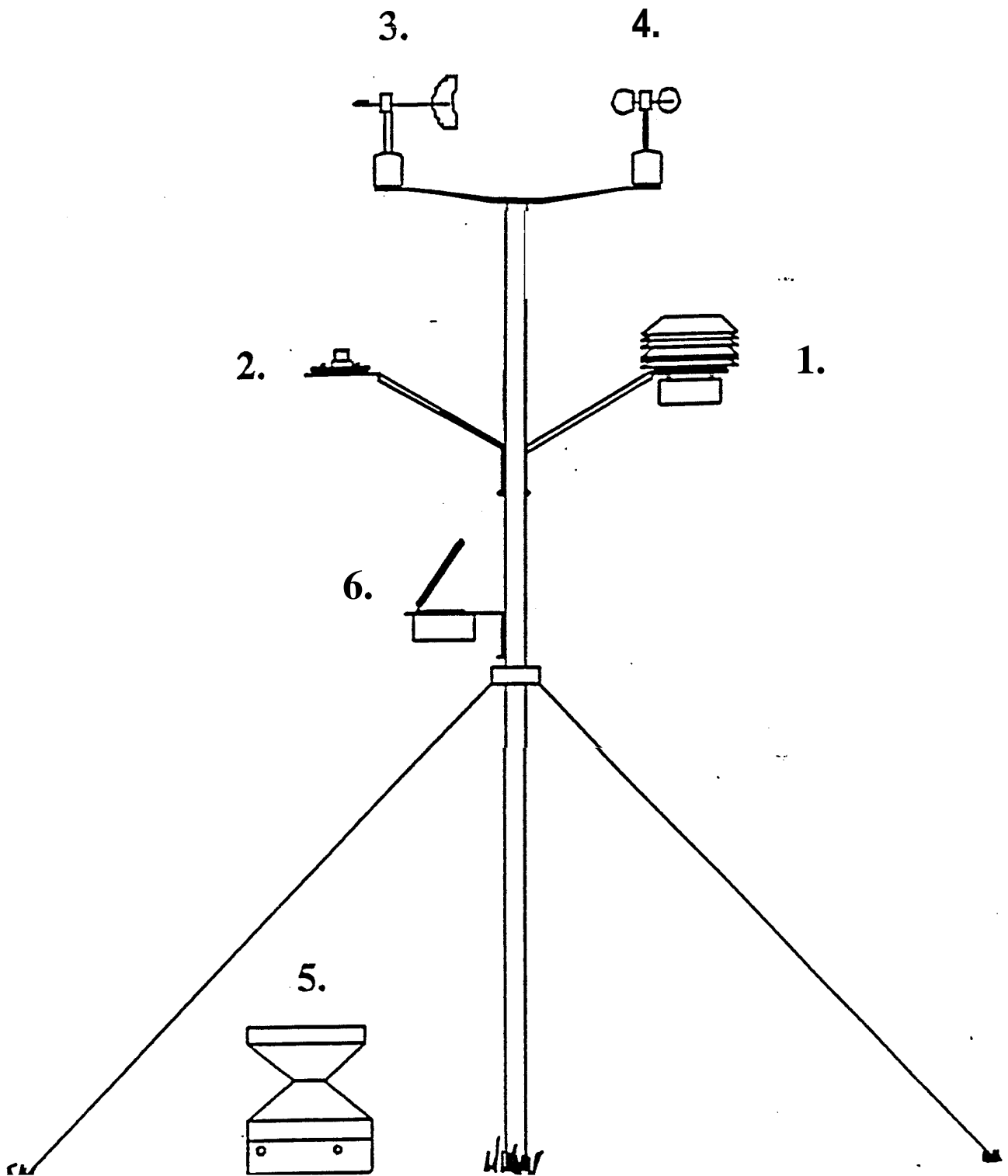
Sl.No	Location	Latitude	Longitude	Altitude
1	Peechi-Vazhani WSL	10° 31' 42" N	76° 21' 06" E	100 m
2	Chinnar WSL	10° 20' 50" N	77° 13' 15" E	460 m
3	Silent Valley NP	10° 05' 46" N	76° 27' 05" E	1040 m
4	Eravikulam NP	10° 10' 10" N	77° 00' 39" E	2000 m

### *Data collection*

The datalogger which forms the main part of the instrument (Fig.1) was programmed to collect data from the electronic sensors connected to it. The data are recorded at 30 seconds interval and averaged every hour. This means that the hourly averages from each sensor is the mean of 120 data points. Thus, precise data for atmospheric temperature ( $^{\circ}\text{C}$ ), relative humidity (%), wind velocity ( $\text{ms}^{-1}$ ), solar radiation ( $\text{MJm}^{-2}$ ), rainfall (mm) and soil temperature ( $^{\circ}\text{C}$ ) at two depths (15 cm and 30 cm) are available at hourly intervals. These data stored in the datalogger were extracted at monthly intervals using a portable computer.

### *Instrument details*

A brief technical description of the electronic sensors and datalogger used in this instrument is given below.



1. Datalogger with temperature and relative humidity sensor 2. Pyranometer sensor  
 2. Wind wane 4. Anemometer 5. Tipping bucket rain gauge 6. Solar power system

Fig. 1. Different instruments of automatic weather station

- 1. Datalogger** The datalogger is integrated with high quality sensors. It is centred on 8-bit microprocessor and has the ability to perform all the mathematical and logging tasks. In normal mode, the microprocessor will be woken up by the clock at regular intervals i.e. every 10 seconds. It can communicate with the user's host computer and can be controlled by instructions via its built-in RS 232 interface. Power is supplied by internal "C" batteries. In logging mode the Minimet will consume 3 mA on average which will give battery life of 14 weeks. The units have battery backed RAM which stores all data and calibration factors. Different channels can be used for a variety of inputs. Operation of the Minimet requires a programme called H2COL96. After connecting the RS 232 one should wait for beep sound and proceed with the main menu instructions.
- 2. Atmospheric temperature sensor** For the measurement of temperature, thermistors (Model SKTS 200/I) are used. The measurements are made in degree celsius. The sensors are enclosed in Stevenson screen.
- 3. Relative humidity sensor** It is mounted along with the temperature sensor and is enclosed in the Stevenson screen.
- 4. Anemometer** (wind velocity) (Model A100R/WR, Vector Instruments, UK) Anemometer measures run of wind or average wind speed / velocity. It has a 3-cup rotor which turns a shaft and hence a magnetic actuator. The resultant varying field causes a mercury wetted reed switch to make and break contact once per revolution of the rotor. It is connected to electronic circuits. Vector Instruments A100R anemometer gives 1 pulse per 1.25 m windrun. Usually the measurements have a full scale value of 23,750 m windrun per recording interval. To convert windrun to meters per second, the full scale value is divided by the number of seconds in recording interval.
- 5. Wind wane** (wind direction) Wind wane is an instrument to use in a potentiometric manner ( Model Resister type W200P/D4, Vector Instruments, UK ). It has a precision wire-wound potentiometer as shaft angle transducer, enabling wind direction to be accurately determined when used in suitable electronic circuits. The output is proportional to the fraction of the resistance element covered by the wiper of the potentiometer. When wind blows from south,



the wiper is half way along the potentiometer track, when the wind veers from north through E,S,W around to N, the wiper moves along the track from terminal T<sub>3</sub> to terminal T<sub>1</sub>.

6. **Pyranometer** (solar radiation) (model SKS 1110/I) The light sensor is mounted on the top of the mast pointing south. Total incoming solar radiation is measured in Watts per second which is converted to Milli Jules per meter square (MJm<sup>-2</sup>) using appropriate equations.
7. **Tipping bucket rain gauge** (rainfall)(Model ARG 100 Environmental Measurements) The tipping bucket rain gauge has a pulse of nominally 0.2 mm per tip. At each tip of the bucket, a magnet contained within the bucket moulding closes a reed switch which represents a discrete amount of rainfall.

### ***Recording period***

The recording period in the four locations started at different dates, mainly due to delay in supply of the instrument. The starting periods for each location is mentioned below:

- 1 Peechi- Vazhani : March, 1997
- 2 Silent Valley : April, 1997
- 3 Chinnar : July, 1997
- 4 Eravikulam : September, 1997

The recording was stopped at all the four locations in March, 1999 with the ending of the project period.

### ***Processing of the weather data***

The raw data collected from the dataloggers in the field need to be processed back in the laboratory. A computer programme was developed for this purpose. This programme has the capacity to read the raw data and output formatted data on an hourly/ weekly/ monthly/ yearly basis as desired. Different types of tables can also be generated using this programme. The wind direction and wind velocity data are made into wind rose diagrams which can be again plotted for different periods. The data can potentially be used for generating several other derived parameters based on microclimate.

### ***Presentation of the data***

Since the weather details were collected hourly for eight parameters, the number of data points is enormous. For example, the number of data points for different duration is given in Table 2.

Table 2. Number of data points for different durations in the datalogger

Duration	Data points
Hour	8
Day	192
Month	5,760
Year	70,080

This is very demanding when a hard copy of the data is required. Hence this report presents data summarised on a daily basis divided into months. The daily minimum, average and maximum of all parameters are presented. Monthly averages for all the parameters are also made available. Finally, an annual summary data are presented. This does not mean that the hourly data are not available to a user who requires it. Upon request, the hourly data can be supplied to bonafide users as a hard copy, on floppy or on Compact Disk .

#### ***Site details and forest types***

- i) ***Peechi-Vazhani Wildlife Sanctuary*** The sanctuary is situated in Thrissur district (between 76°15' E 76° 27' E longitude and 10° 30' N and 10° 42' N latitude) and is about 125 km<sup>2</sup> in extent. The area was declared as a wildlife sanctuary in 1958. A good variety of mammals including tiger, elephant, gaur, sambar deer, bear, etc. are reported from this locality. The Chimmoni wildlife sanctuary is located on the eastern side of this sanctuary. The forests of Palakkad Division border the northern side. The terrain is undulating and the altitude varies from 100 to 914 m above mean sea level. Peechi Dam holds a reservoir in this area. The vegetation consists of tropical evergreen and semi-evergreen species.
- ii) ***Chinnar wildlife sanctuary*** It consists of thorny shrub deciduous forest providing habitat for many wild animals including the endemic grizzled giant squirrel (*Ratufa macroura*). It comes under Devikulam taluk, Idukki district and forms a part of Idukki-Eravikulam wildlife Division. The northern sides are bordered by Amaravathy reserve forests of Indira Gandhi

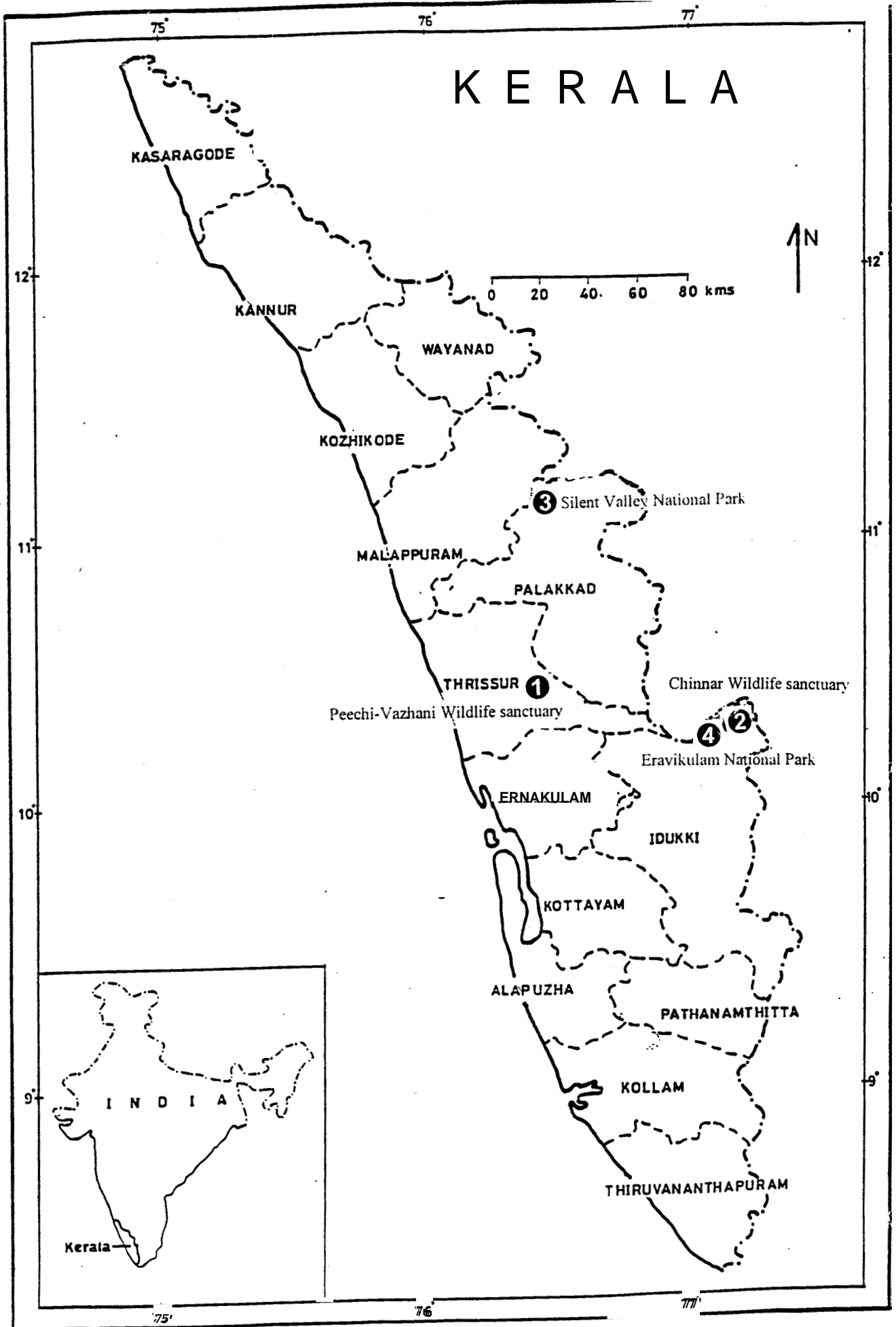


Fig.2. Map of Kerala showing locations of the four sanctuaries

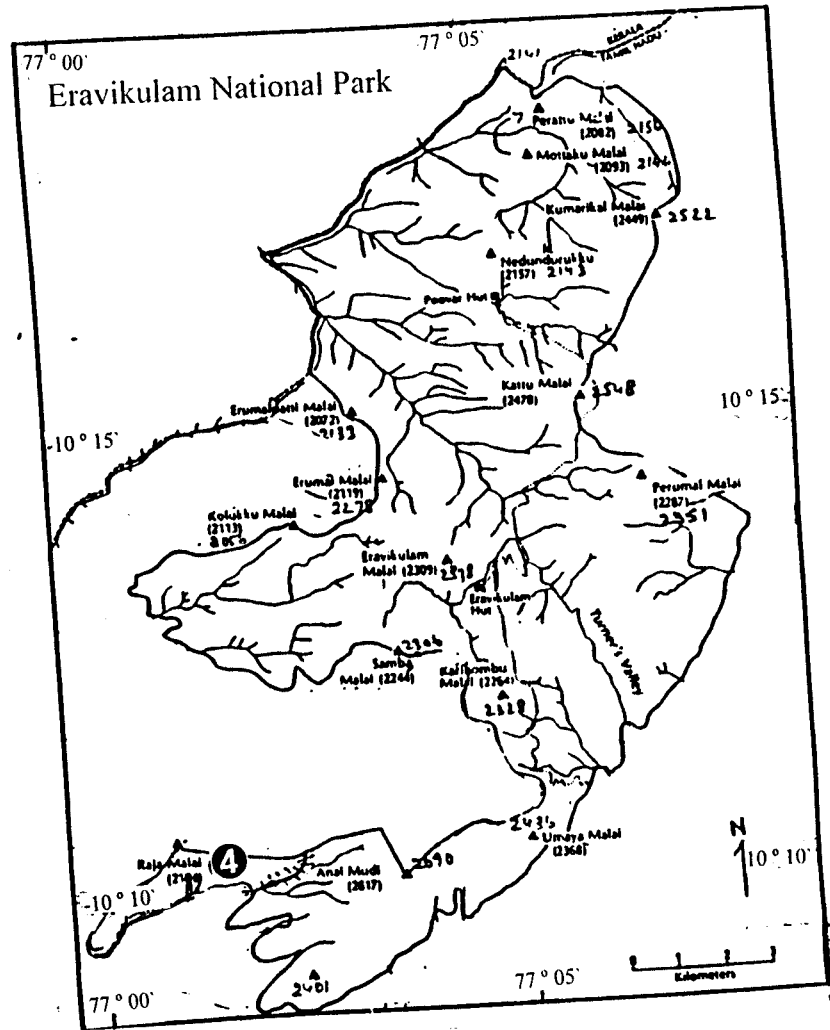
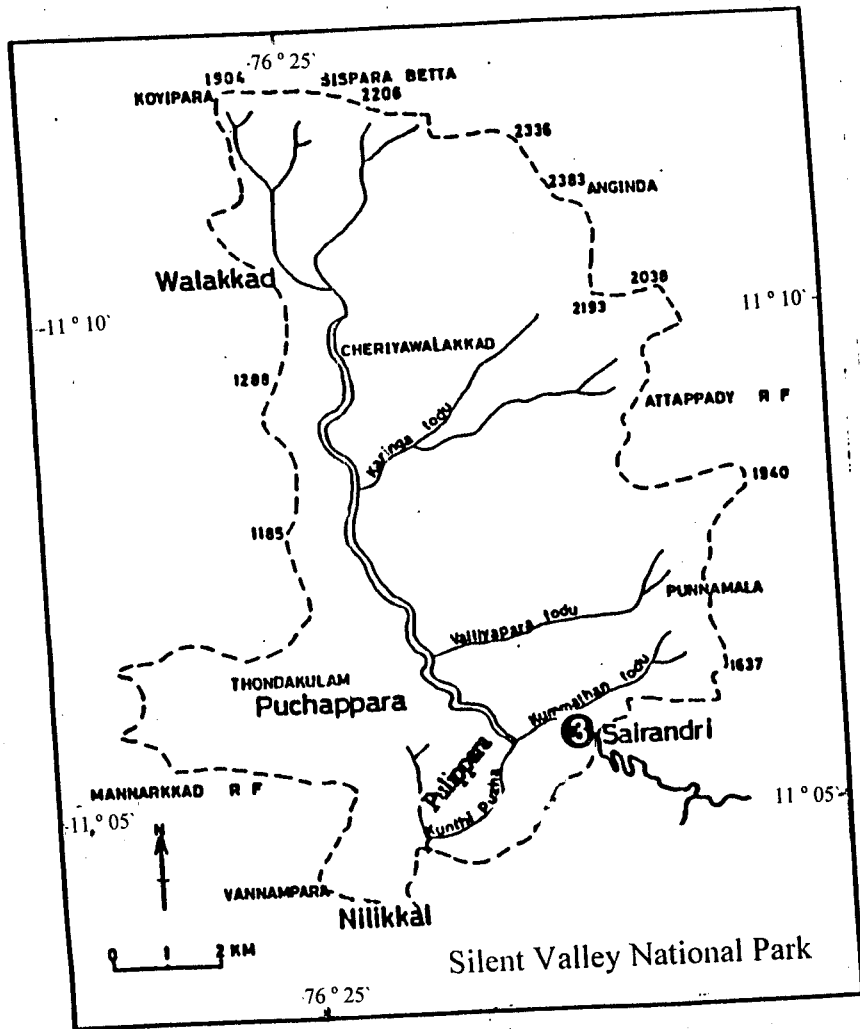


Fig. 3b. Maps of Silent Valley National Park and Eravikulam National Park showing locations of the Instrument

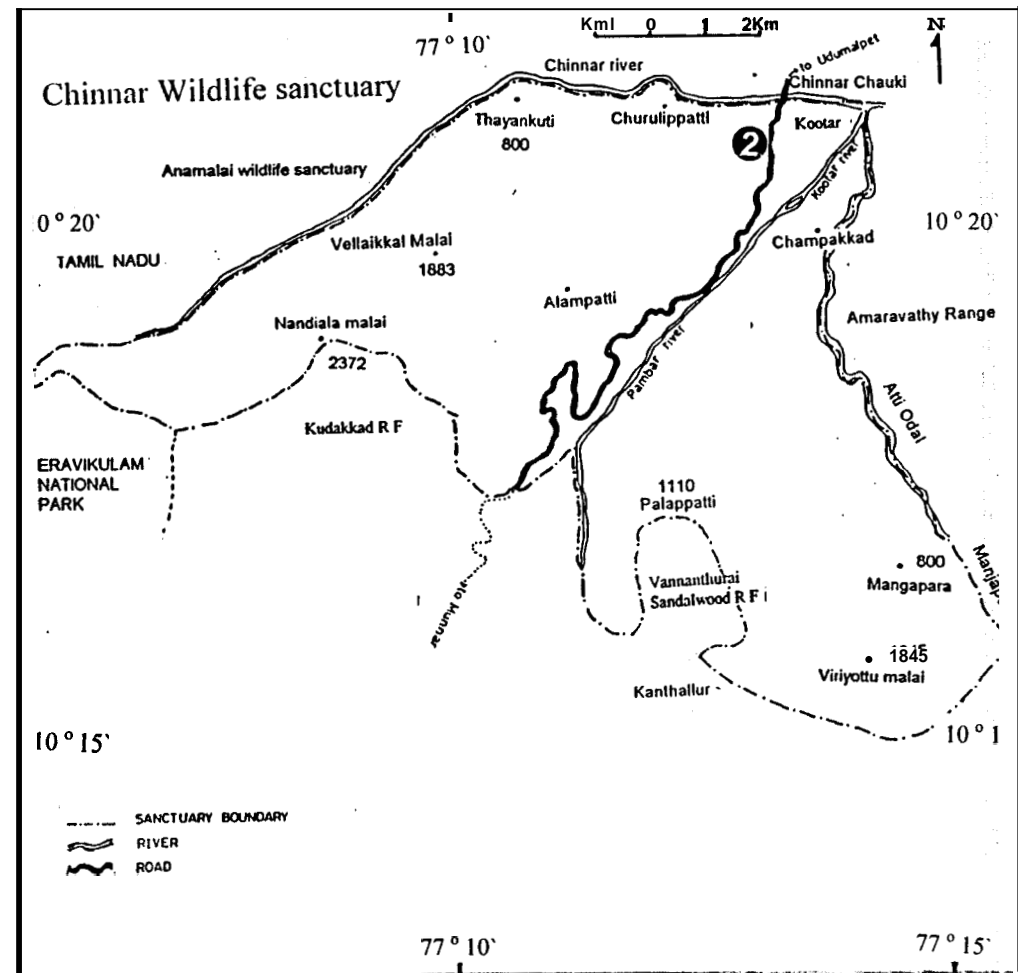
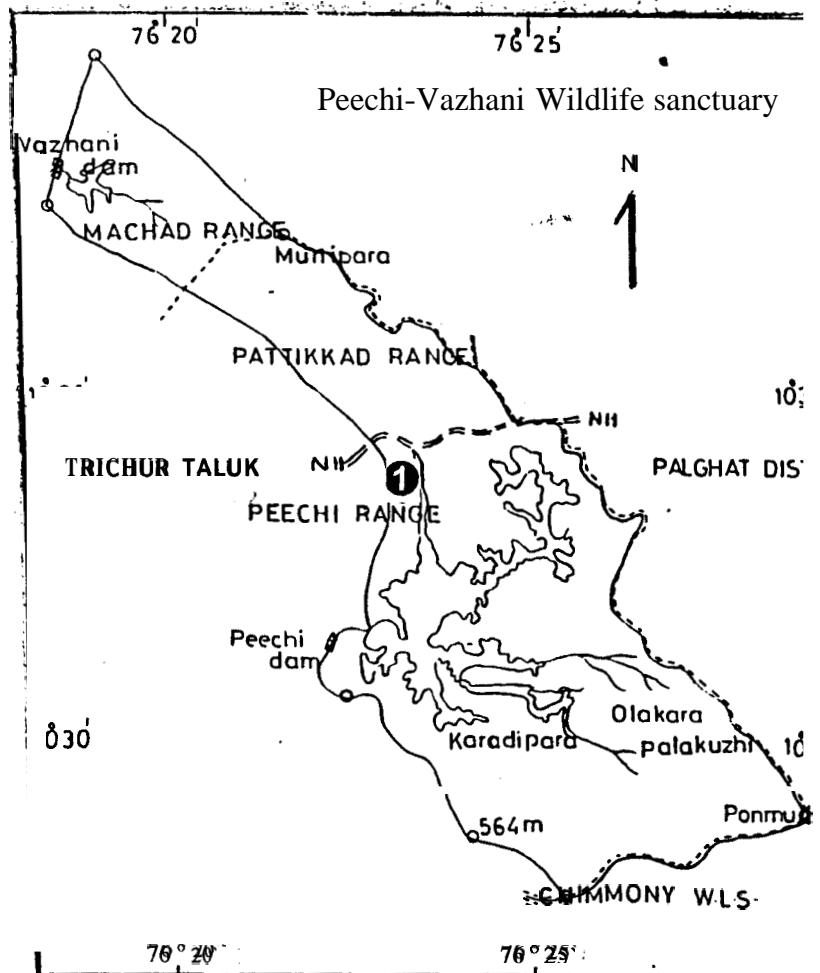


Fig. 3a. Maps of Peechi-Vazhani Wildlife sanctuary and Chinnar Wildlife sanctuary showing locations of the Instrument

wildlife sanctuary. The western side merges with Eravikulam NP. In 1984, 90.442 km<sup>2</sup> of the reserve forest was declared as wildlife sanctuary. The longitude of this location lies between 77°5' and 77°17' E and latitude between 10°15' and 10° 22' N. The elevation of the locality varies between 400 and 2372 m above msl. This area is regarded as a rain-shadow region coming under the Western Ghats.

iii) **Silent Valley National Park** Considering the great ecological, faunal, floral, geomorphological and zoological importance, about 89.52 km<sup>2</sup> of area has been declared as Silent Valley NP in 1980. This is a precious reserve of life forms and is the only undisturbed tropical rain forest in Kerala. It is situated in Palakkad district between latitude 11°05' and 11°25' N and longitude between 76°21' and 76°33' E. It has a number of ridges and furrows with altitudes ranging between 1000 and 2000 m above msl. Northern side of the Park is bordered by Nilumbur Forest Division, east by Attappady reserve forests, south by vested forest of Nilambur and Palakkad divisions. The water from the forest flows to Kunthipuzha which joins with Barathapuzha. The vegetation is confluence of tall west coast tropical evergreen forests, subtropical broad-leaved hill forests, the stunted montane wet temperate (Shola) forests and the mid elevational and high elevational grasslands.

iv) **Eravikulam National Park** This National Park is famous for a large population of an indigenous species, the Nilgiri Tahr (*Hemitragus hylocrius*). It is situated in the Idukki District. Considering the ecological significance, about 97 km<sup>2</sup> of the area falling along the crest of the Western Ghats in the high ranges, formerly declared as a sanctuary in 1975, has given the status of a National Park in 1978. The exact location of the Park comes under a latitude of 10° 05'-10°20' N and a longitude of 77°0' - 77°10'E . Eravikulam NP consists of Sholas and grasslands with an elevation ranging between 1400 and 2695 m. On the north it is bordered by Anamalai Sanctuary (Tamil Nadu), south by the Tata Tea Estates, west by Malayattoor Forest Division and east by the Chinnar WLS and Munnar Forest Division. The Park consists of subtropical hill forests in some portion of the foothills where the elevation is low. The grasslands are famous for the blooming of *Pheophyllum kunthianum* ( Neela kurinji), occurring once in 12 years.

From the location of the four sites, it may be noted that all the four sites are lying

between a longitude of  $76^{\circ}15'$  and  $77^{\circ}17'$  E. This is equivalent to about 115 km of longitudinal distance ( $1^{\circ}$  longitude = 112 km). The sites for installing the weather station were chosen in such a way that a gradient of elevation was available comprising the four sanctuaries in the Western Ghats.

## DISCUSSION

### *Microclimate variations in an altitudinal gradient*

One of the main objectives of collecting microclimate data from the four Sanctuaries at different elevations is to study the variation in the different parameters. Since the latitudinal variation is minimum in the four locations, most of the variation in microclimate can be ascribed to altitudinal gradation starting from 100 m above msl (Peechi-Vazhani WLS) to 1800 m elevation (Eravikulam NP). Chinnar WLS (450 m) and Silent Valley (1000 m) lie in between. Besides elevation, the topographical features of the locations have greatly determined the microclimate. Most significant among them is the position of Chinnar WLS on the eastern slopes of the Western Ghats and therefore is a rain shadow area as far as the South-West Monsoon is considered. Thus Chinnar WLS shows wide variations from the rule of altitudinal gradient determining the microclimate.

- i) **Temperature:** Temperature typically follows the rule that as the altitude increases, the temperature decreases. However, the temperature data from Chinnar WLS do not fit in with the rest of the location. The temperature curve in Chinnar WLS (Fig. 4a) is almost identical to that of Peechi-Vazhani WLS which is located at nearly 350 m lower elevation. The gradation in temperature is clear from the graph (Fig. 5a) which is 15-20°C in Eravikulam NP, 20-25°C in Silent Valley and Chinnar WLS. When the latter two locations are compared, it is interesting to note that Peechi-Vazhani WLS has lower temperature than Chinnar WLS during the months of two monsoon rains. Thus it is imperative that the rainfall is an important parameter regulating the temperature in Chinnar WLS apart from elevation. It should be noted that Chinnar WLS has the least rainfall out of all the four locations. Keeping Chinnar WLS apart, the fall in temperature due to increasing elevation is 0.5 °C/100 m.
- ii) **Relative humidity:** The relative humidity (RH) in all the three locations on the western side of the Western Ghats is nearly identical. Slight variations occur only in the month of March which is relatively dry in all these locations. The RH follows an altitudinal gradient in March, with maximum in Peechi-Vazhani WLS and minimum in Eravikulam NP. In Chinnar WLS,



the RH remains between 20 and 30% throughout the year. From the data, it appears that elevation does not play any major role in determining the RH of these hills in the Western Ghats. Extremely high humidity reaching condensation level is very common in the western slopes during the monsoon months (June to October).

- iii) **Solar radiation:** The solar radiation data show a general increase during summer months and a decrease during the monsoon months in all the locations (Fig. 4c). Meteorologically, the solar radiation should increase in a location as the elevation above msl increases. However, this does not hold good in these locations mainly because of the dense cloud cover and the foggy atmosphere experienced in the higher range hills of the Western Ghats. During summer period, the solar radiation is nearly same in all the four locations. However, during the rest of the year both Silent Valley NP and Eravikulam NP receive much lower energy from sun compared to other locations. The solar radiation in Chinnar is highest out of all the four locations, mainly because of less cloud cover here. The accumulated annual value when plotted against elevation substantiates the above conclusions.
- iv) **Wind velocity:** Wind velocity usually increases with elevation. This is much apparent in the data (Fig. 4d ) collected from the four locations. Except for the summer months, wind velocities are maximum at Eravikulam NP. It may be noted that this location has high wind velocities in June which is probably the monsoon winds. The wind velocities show higher values in Eravikulam NP and Silent Valley NP during the monsoon months. However, the picture is different at Peechi-Vazhani WLS. Here, the velocity is higher from November to March. This is due to an easterly wind blowing to Kerala through the Palakkad Gap of the Western Ghats. The Peechi-Vazhani WLS comes under the influence of the Palakkad Gap. The wind velocity recorded at Chinnar WLS shows a more or less uniform magnitude, except for the slightly higher speeds recorded during some monsoon months.
- v) **Soil temperature:** The soil temperature measured at all the four locations ( Fig. 4e ) shows a trend very similar to the atmospheric temperature. However, the magnitude of the soil temperature is higher at all locations when compared to their atmospheric temperature. The soil temperature at 150 mm and 300 mm depths differs usually by one or two degree Celsius. The maximum soil temperatures have been recorded in Chinnar WLS and the

minimum in Eravikulam NP out of the four locations monitored.

vi) **Rainfall:** The rainfall data in all the four locations show that the precipitation is monsoonal. The South -West Monsoon gives more rainfall in all the three locations in the western slopes of the Western Ghats. In Chinnar WLS, the rains received from both the monsoons are comparatively less. Silent Valley receives more rainfall from both the monsoons (Fig. 6). In all the four locations, a pronounced drought period is very apparent starting from January to May when there are only scanty rains. This non-uniform pattern of rainfall has certainly got its influence on other microclimate parameters as well as the vegetational features in all the four locations. It is difficult to find any correlation between rainfall and altitudinal gradient in these study locations. It is possible that the general rules do not apply here because of the topographical influences.

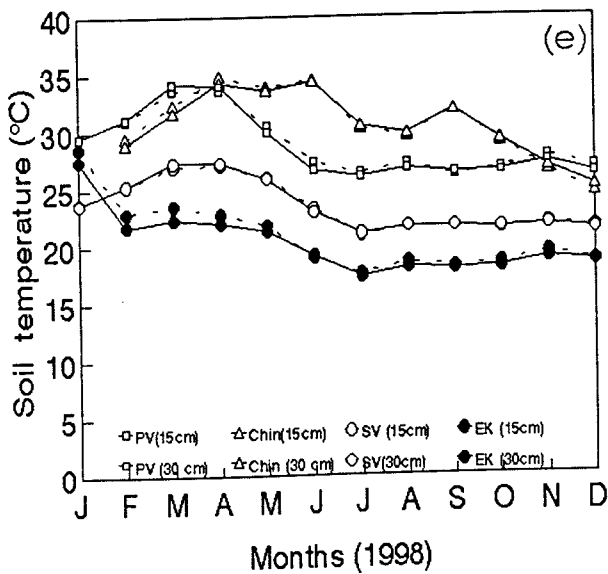
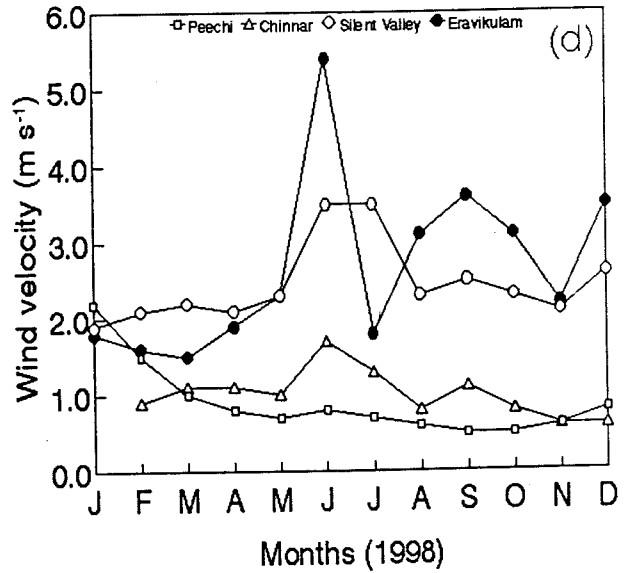
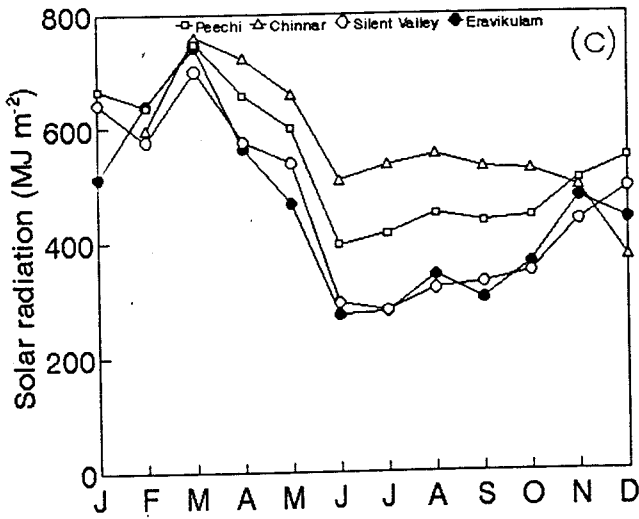
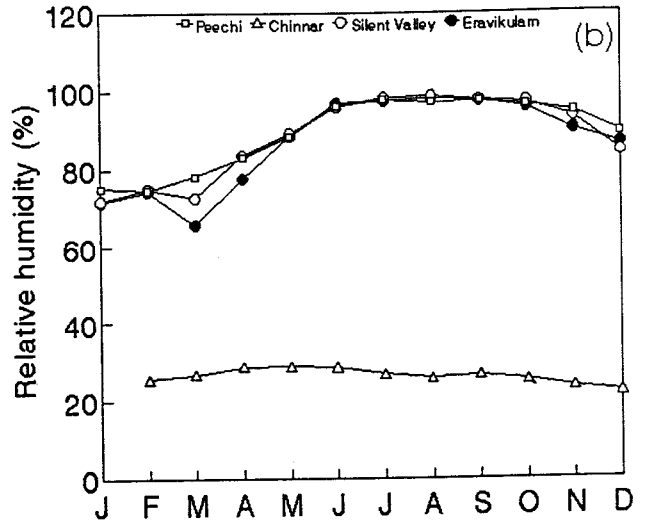
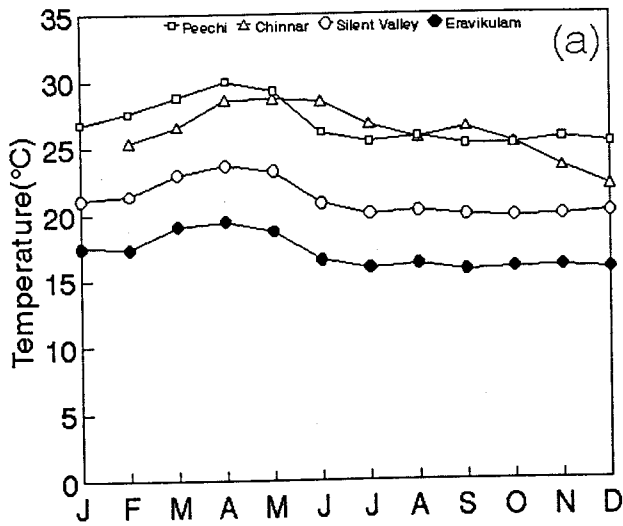


Fig.4. Mean monthly weather data of wild life sanctuaries at different altitudes

- a) temperature
- b) relative humidity
- c) solar radiation
- d) wind velocity
- e) soil temperature

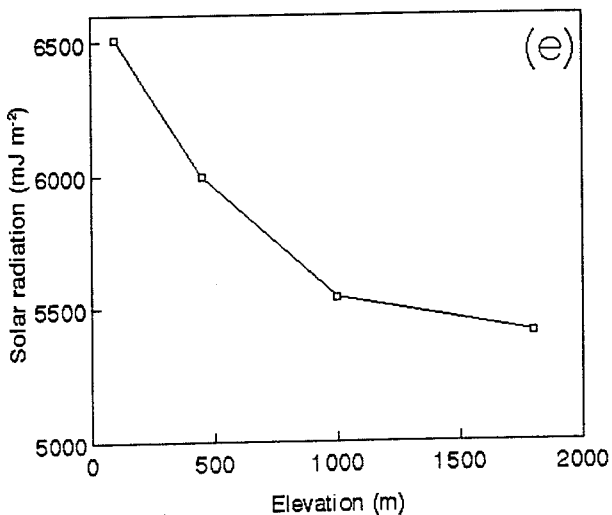
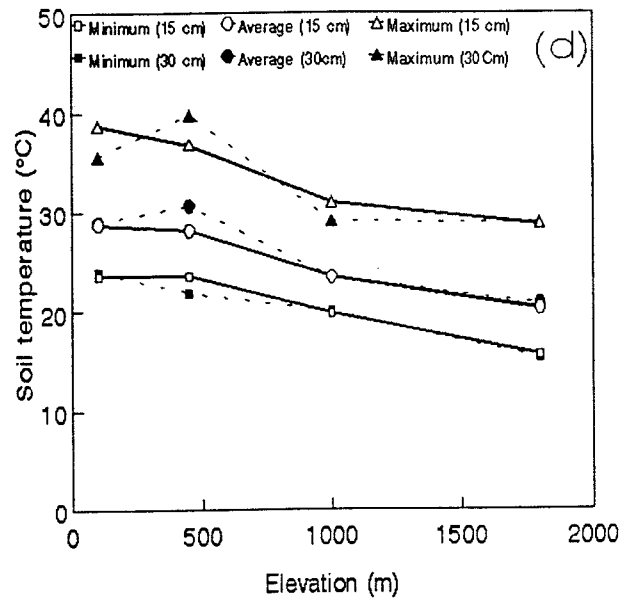
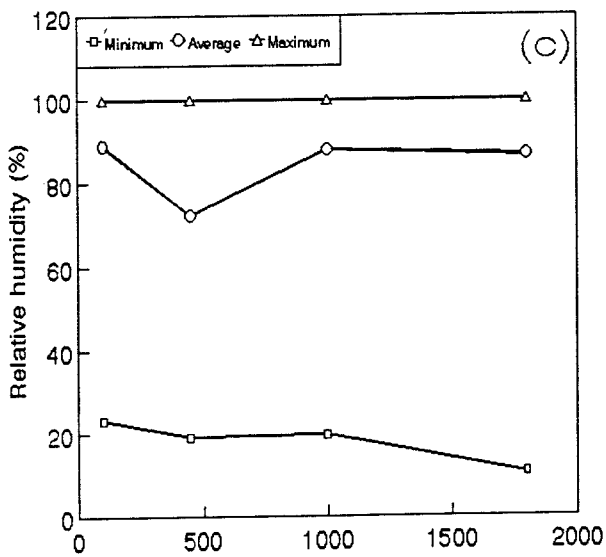
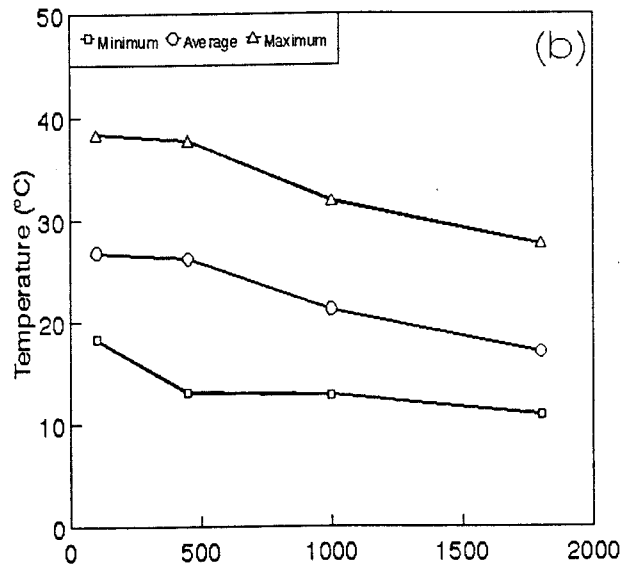
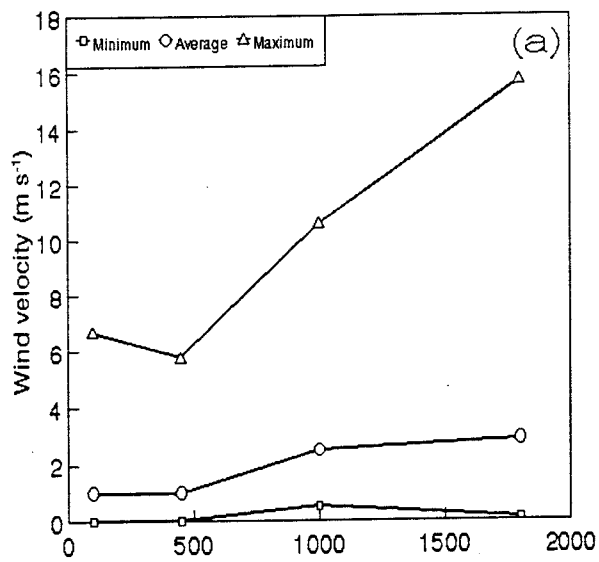


Fig.5. Influence of altitude on different weather variables

- a) Wind velocity
- b) Temperature
- c) Relative humidity
- d) Soil temperature
- e) Solar radiation

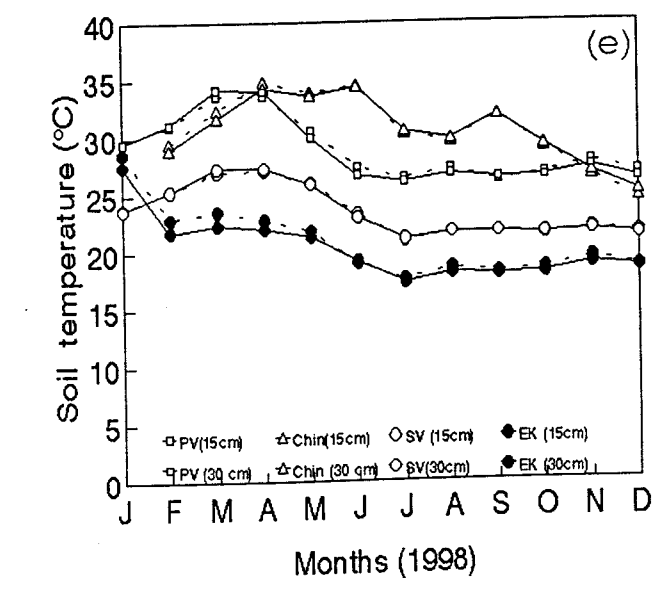
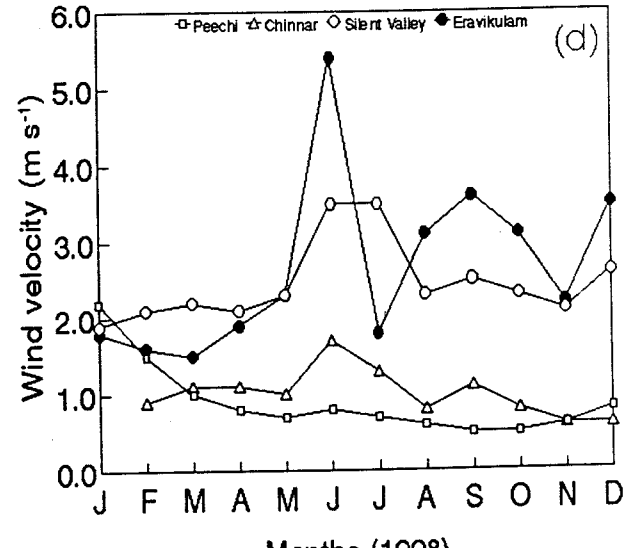
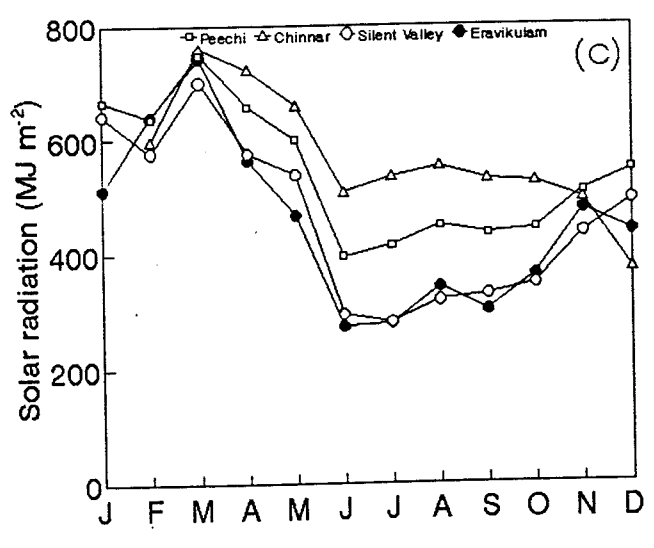
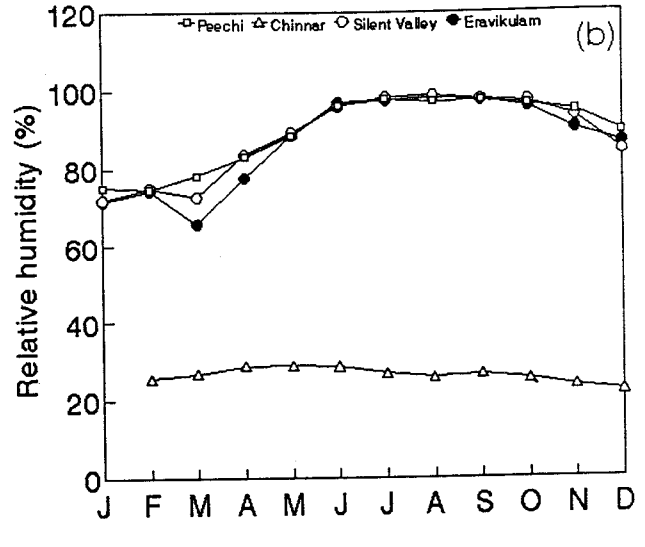
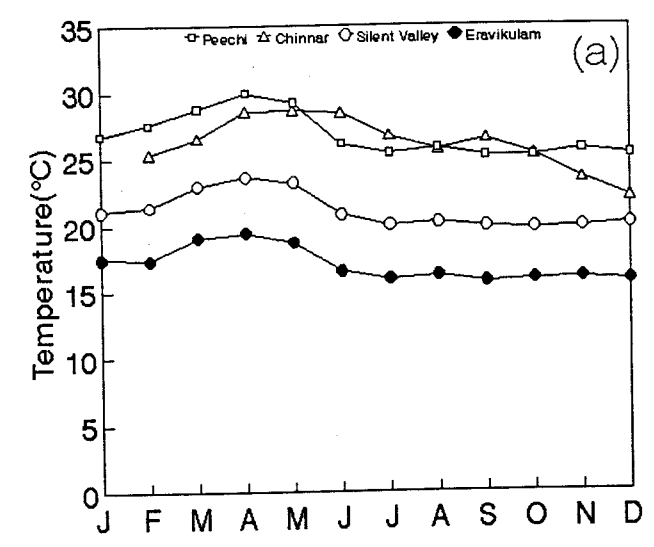


Fig.4. Mean monthly weather data of wild life sanctuaries at different altitudes

- a) temperature
- b) relative humidity
- c) solar radiation
- d) wind velocity
- e) soil temperature

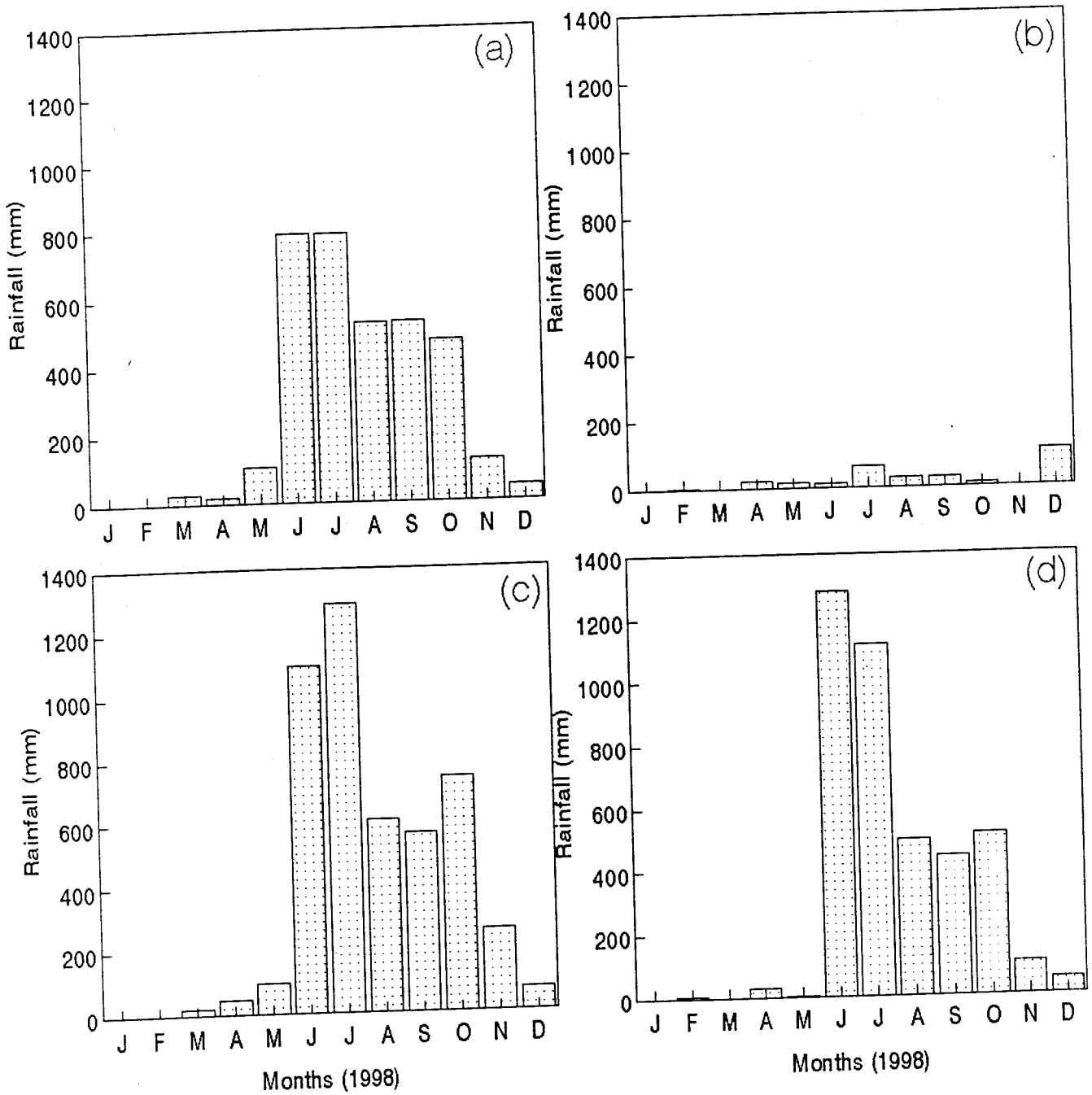


Fig.6. Monthly rainfall in the four sanctuaries during 1998  
 a) Peechi-Vazhani WLS b) Chinnar WLS c) Silent valley NP  
 d) Eravikulam NP

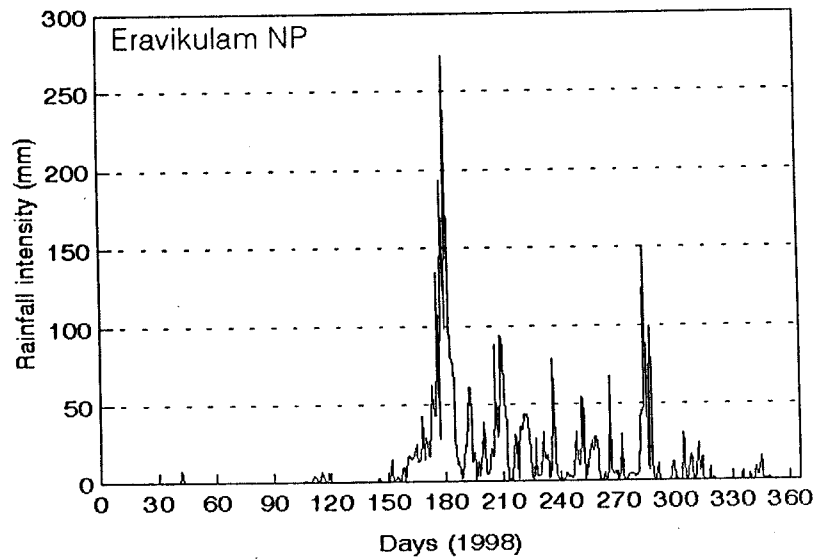
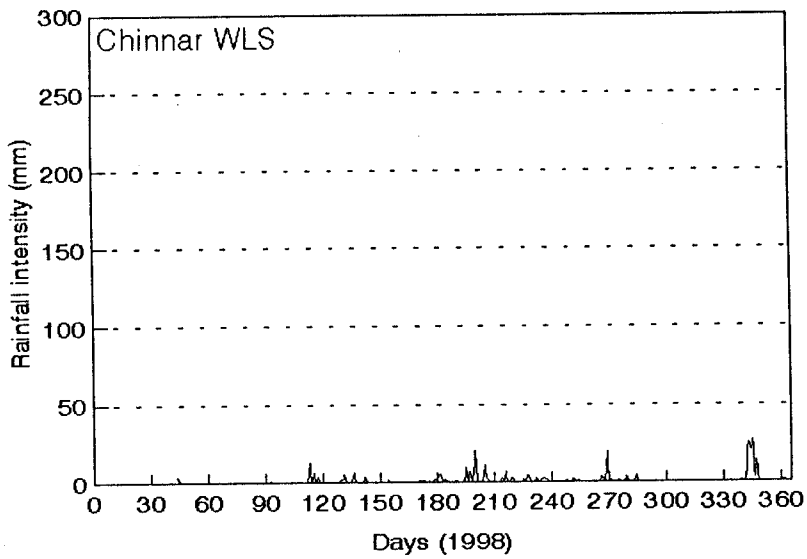
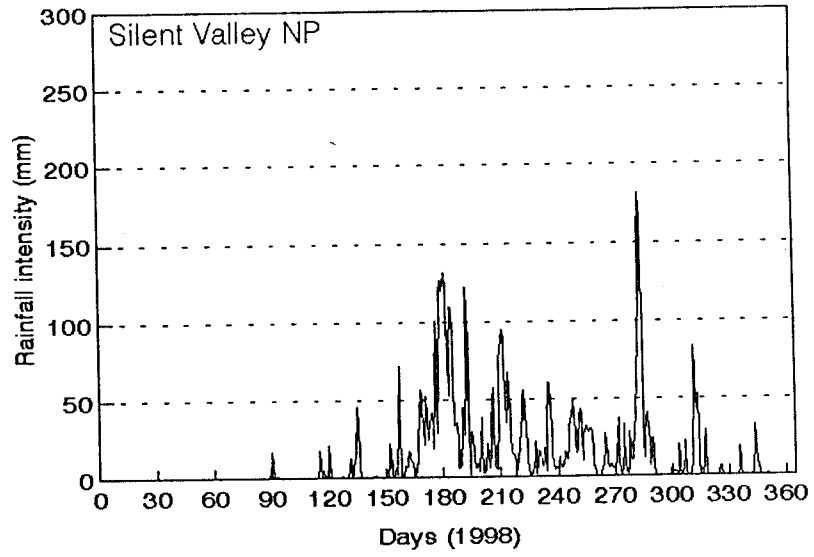
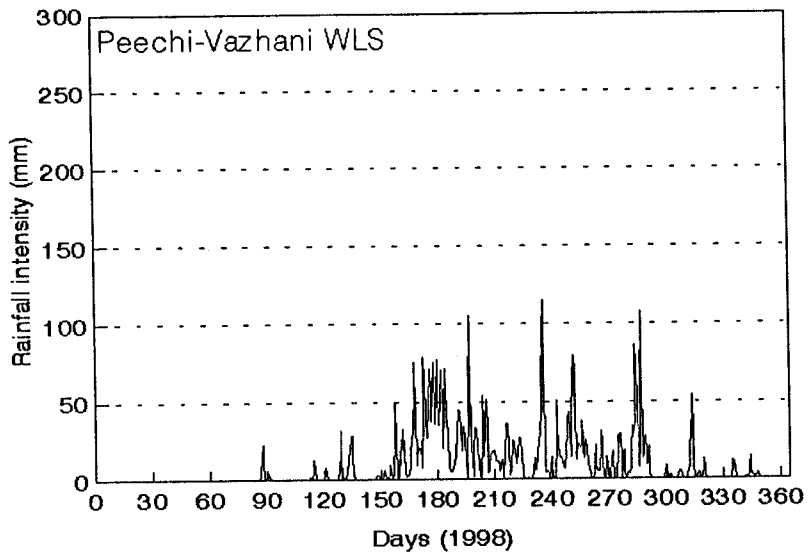


Fig.7. Daily rainfall at various sanctuaries during 1998

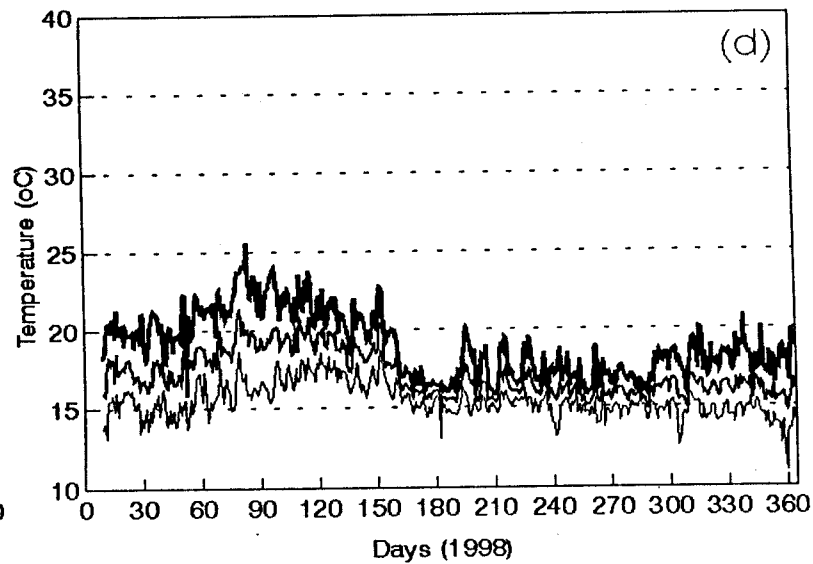
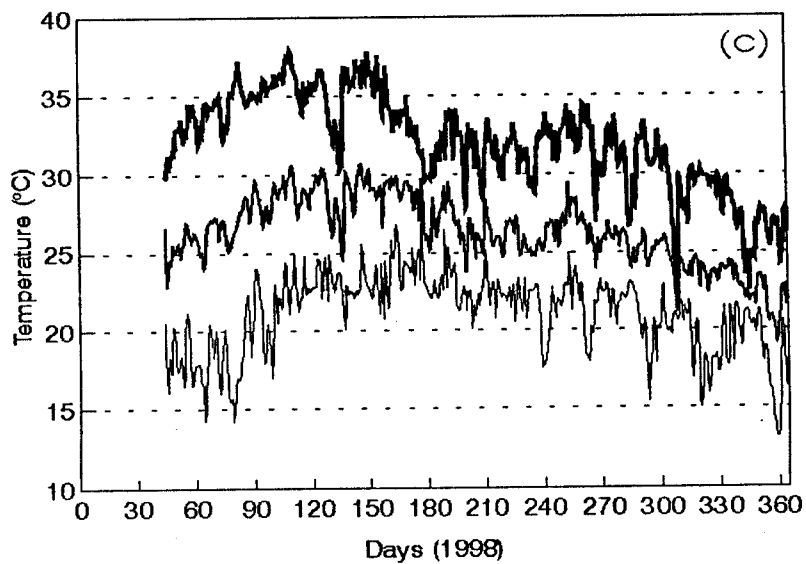
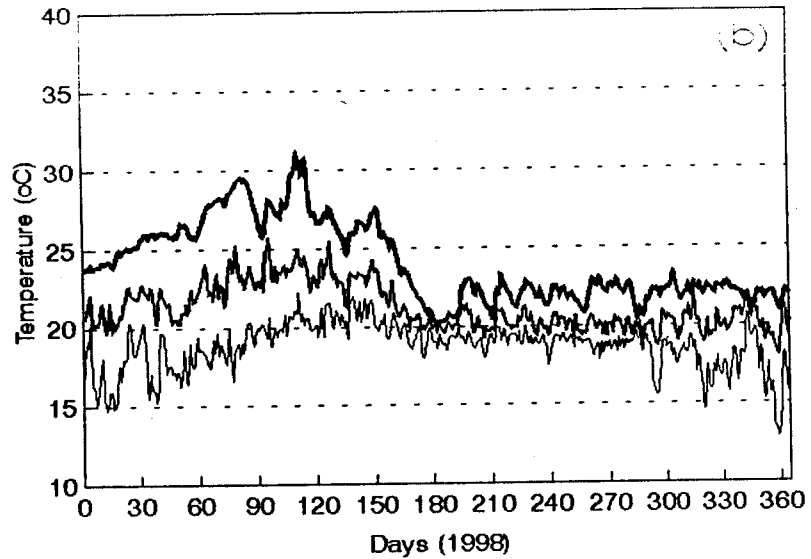
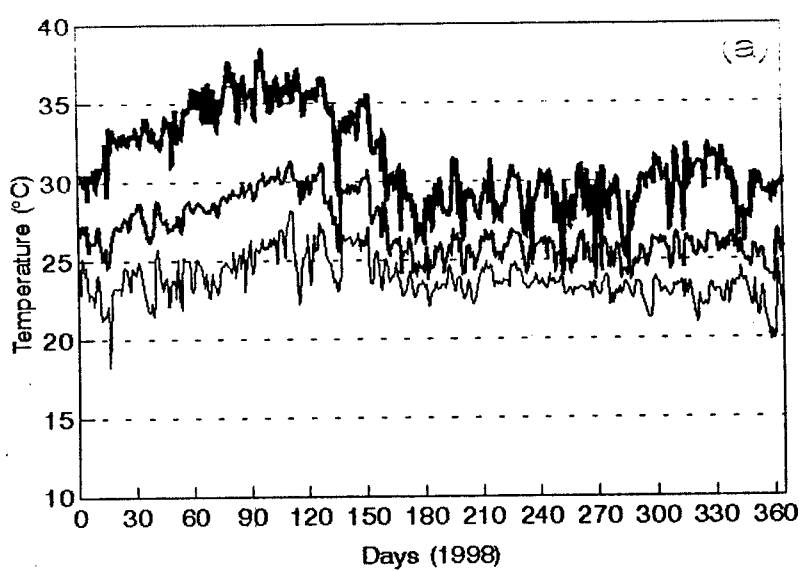


Fig.8. Daily temperature variations in four wild life sanctuaries during 1998. (a) Peechi-Vazhani WLS, (b) Silent Valley NP, (c) Chinnar WLS (d) Eravikulam NP



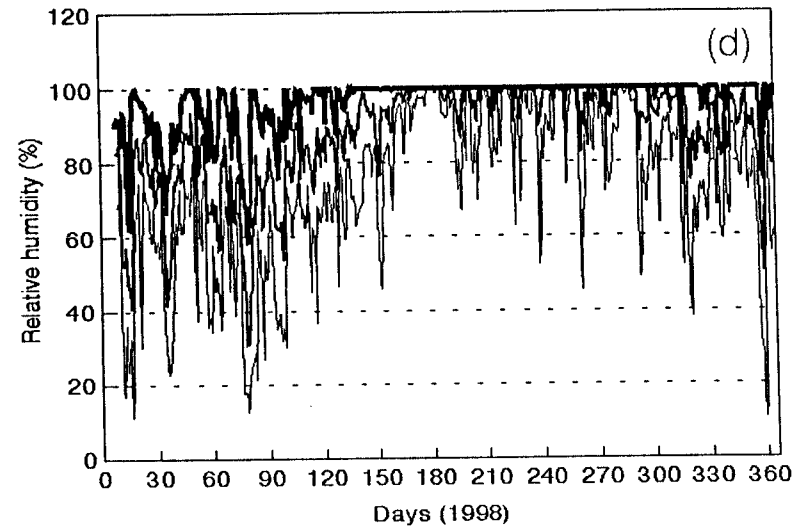
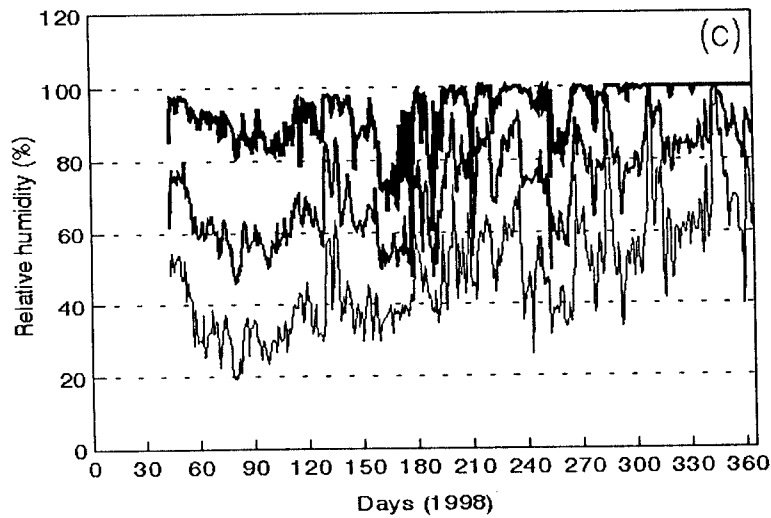
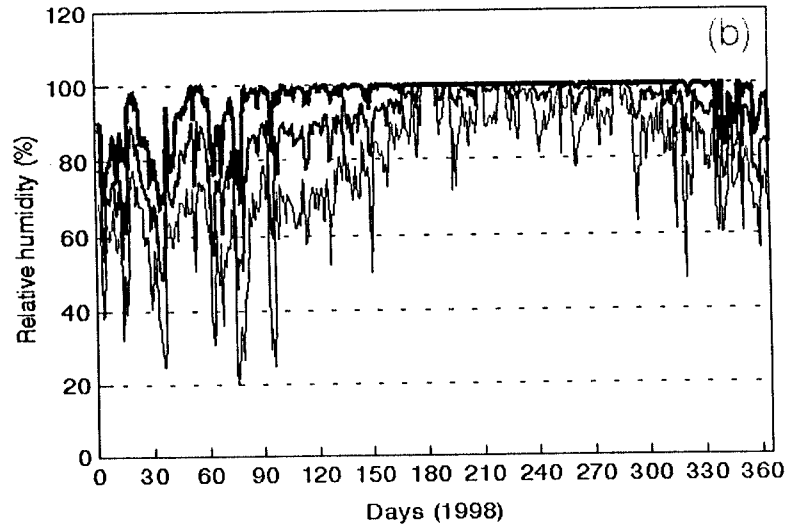
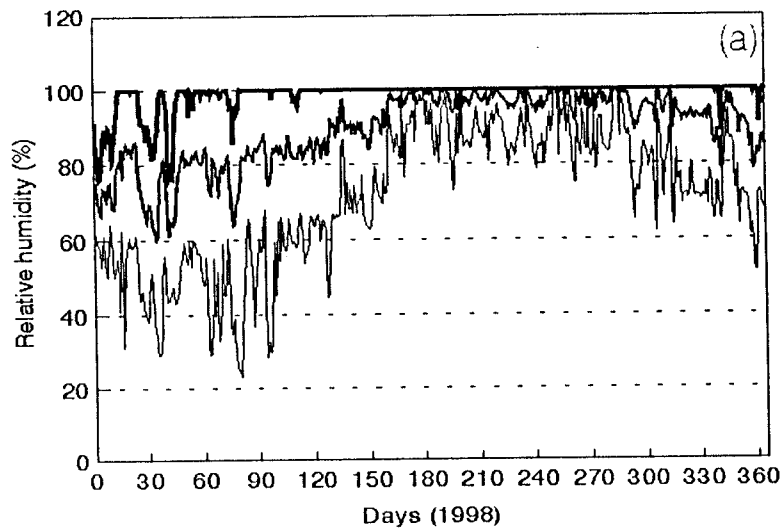


Fig.9. Daily variations in relative humidity in four wild life sanctuaries during 1998: (a) Peechi-Vazhani WLS, (b) Silent Valley NP, (c) Chinnar WLS (d) Eravikulam NP

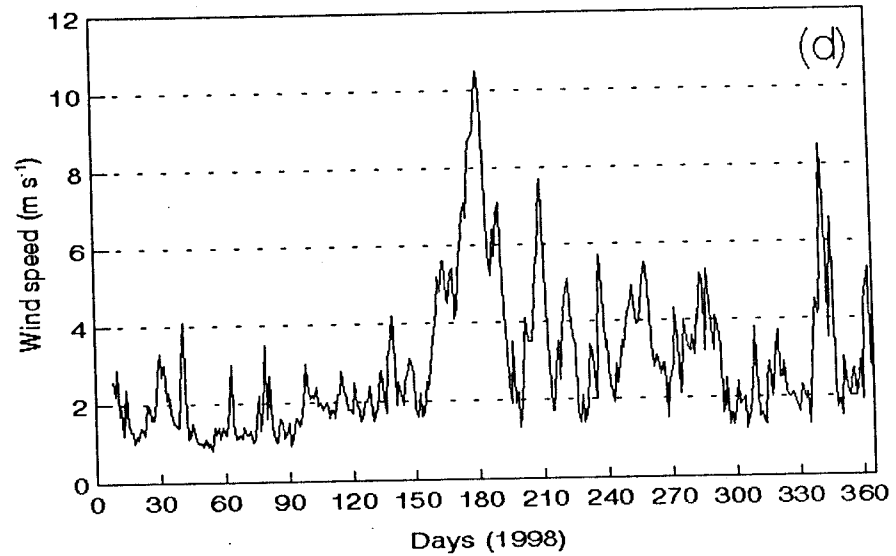
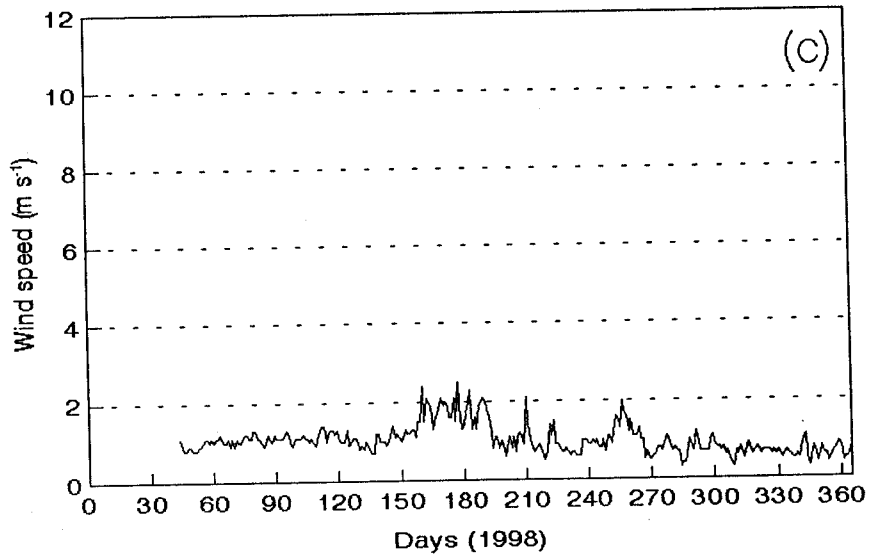
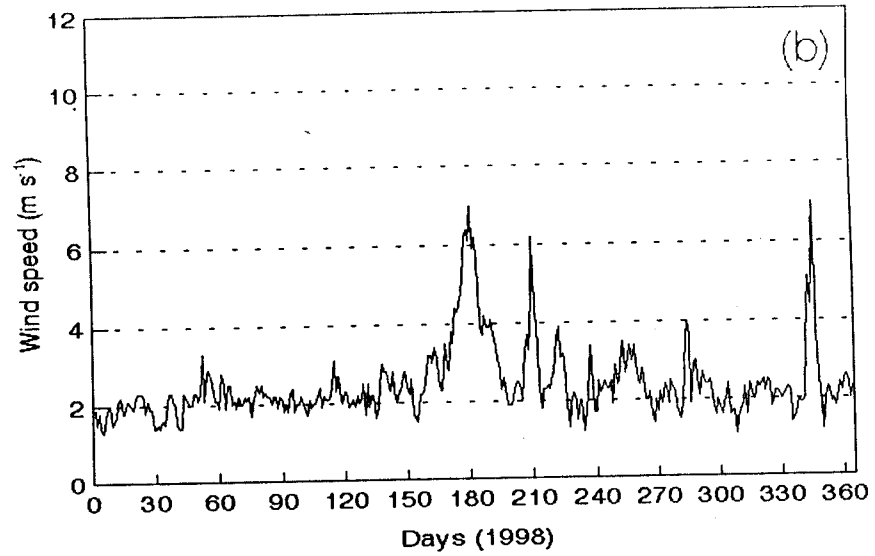
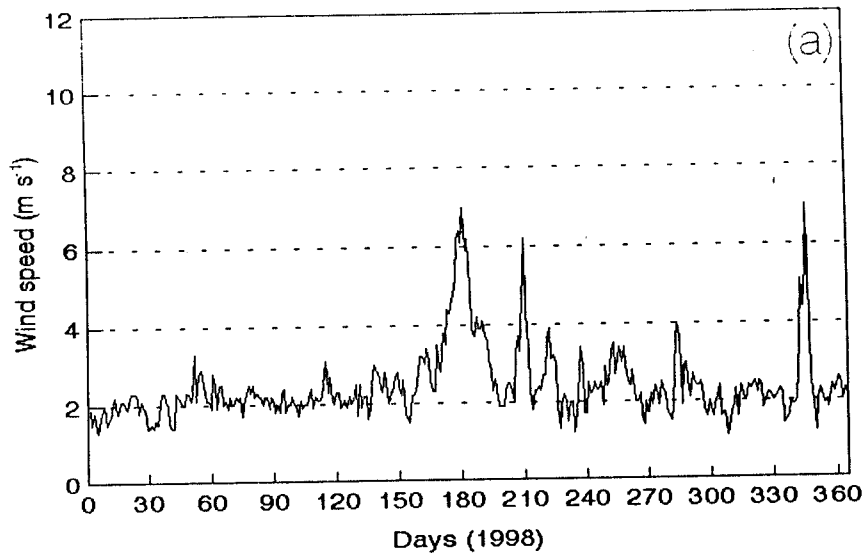


Fig.10. Daily variations in wind speed in various wild life sanctuaries: (a) Peechi-Vazhani WLS, (b) Silent valley NP, (c) Chinnar WLS and (d) Eravikulam NP

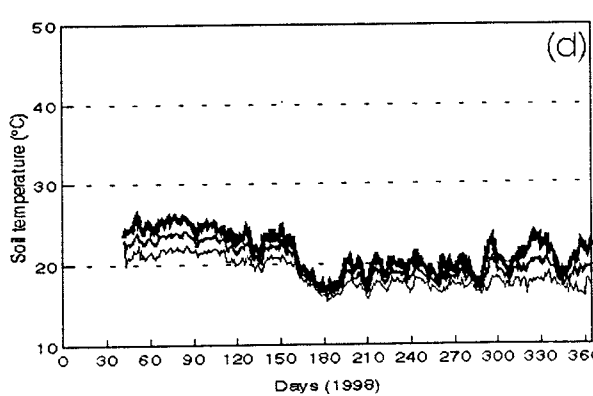
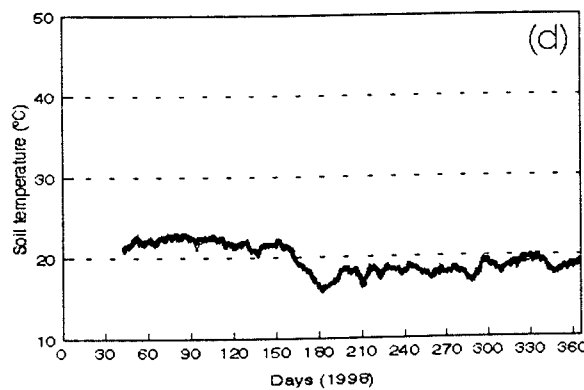
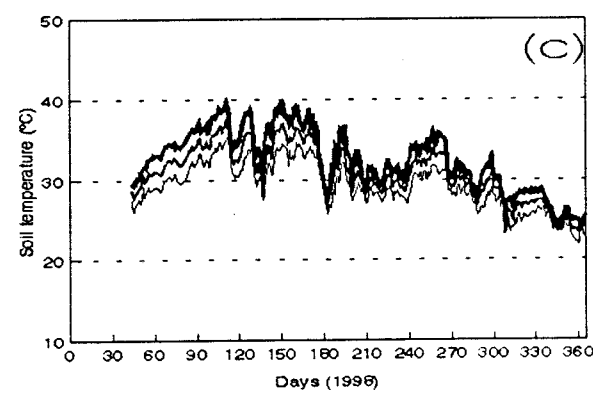
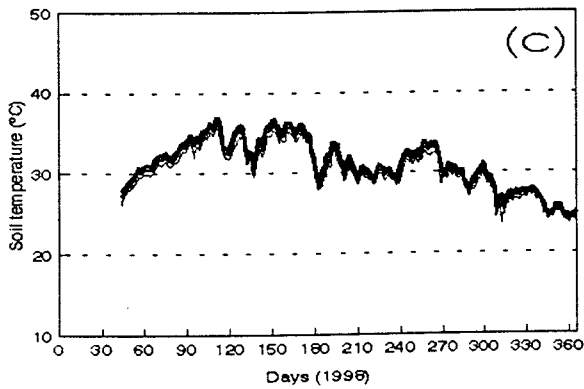
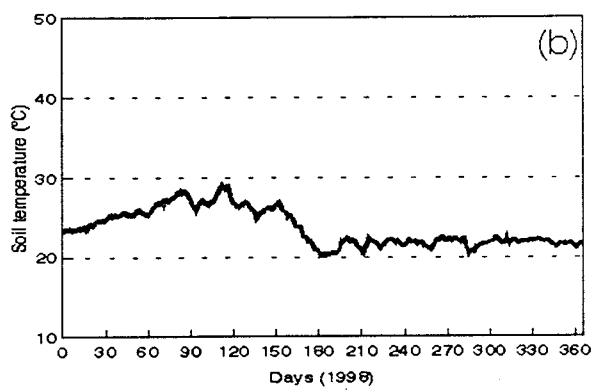
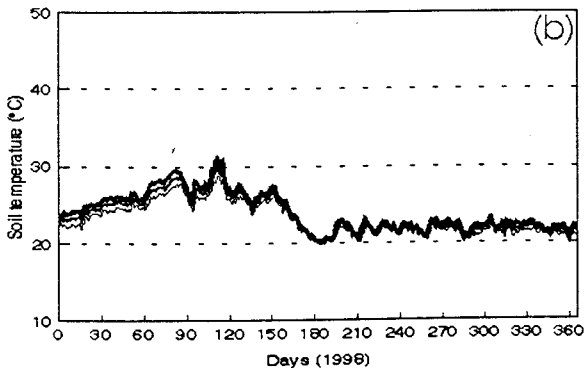
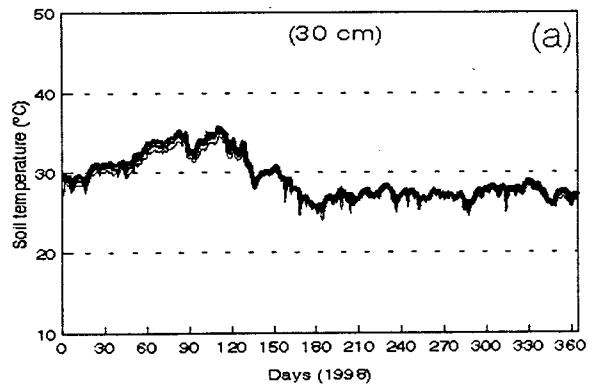
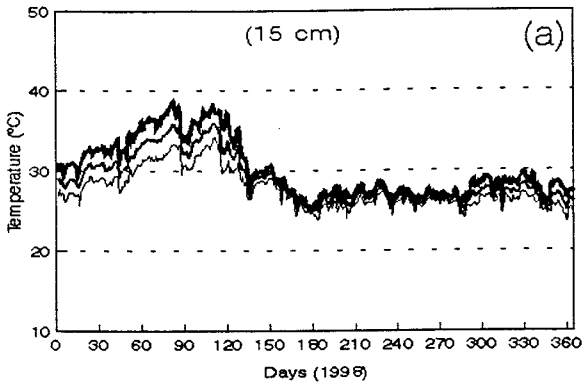


Fig.11. Daily variations in soil temperature at 15 and 30 cm depths in various wild life sanctuaries: (a) Peechi vazhani WLS, (b) Silent valley N, (c) Chinnar WLS and (d) Eravikulam NP

## 1. Peechi – Vazani Wildlife sanctuary

KERALA FOREST RESEARCH INSTITUTE. DAILY FOREST METEOROLOGICAL DATA  
 Station 1. Peechi-Vazhani WLS 1st February 1997 to 28th February 1997

Day	Wind speed			Temperature			Humidity			Rain mm	Solar MJ/m2	Soil(15cm) temp oC			Soil(30cm) temp oC		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max			Min	Avg	Max	Min	Avg	Max
1 ( 32)	0.1	1.3	2.9	20.1	25.0	32.6	24.3	59.8	87.9	0.0	26.3	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
2 ( 33)	0.3	0.9	2.0	20.9	25.6	32.6	29.5	71.6	97.5	0.0	26.3	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
3 ( 34)	0.0	0.6	1.5	19.8	25.2	31.8	50.1	76.5	97.1	0.0	21.9	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
4 ( 35)	0.2	0.7	1.9	20.7	25.9	32.8	34.3	71.8	94.4	0.0	24.9	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
5 ( 36)	1.3	1.0	2.6	20.4	25.9	33.4	32.3	72.8	94.0	0.0	25.5	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
6 ( 37)	0.1	0.7	2.1	22.2	26.6	33.4	38.7	74.2	97.7	0.0	23.7	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
7 ( 38)	0.1	1.2	2.8	21.6	26.7	33.8	31.6	72.2	94.7	0.0	25.9	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
8 ( 39)	0.1	0.8	1.4	23.2	26.8	32.8	40.4	78.0	95.3	0.0	21.3	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
9 ( 40)	0.2	0.6	1.3	22.8	26.4	32.6	44.0	75.2	97.3	0.0	25.4	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
10 ( 41)	0.0	0.1	0.3	21.7	22.1	22.8	90.7	92.2	93.2	0.0	0.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
11 ( 42)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
12 ( 43)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
13 ( 44)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
14 ( 45)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
15 ( 46)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
16 ( 47)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
17 ( 48)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
18 ( 49)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
19 ( 50)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
20 ( 51)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
21 ( 52)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
22 ( 53)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
23 ( 54)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
24 ( 55)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
25 ( 56)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
26 ( 57)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
27 ( 58)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
28 ( 59)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
	0.0	0.8	2.9	19.8	25.6	33.8	24.3	74.4	97.7	0.0	221	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0

-99.00 indicate No data or Invalid data.

KERALA FOREST RESEARCH INSTITUTE. DAILY FOREST METEOROLOGICAL DATA  
Station 1. Peechi-Vazhani WLS    1st January 1997 to 31st January 1997

Day	Wind speed			Temperature			Humidity			Rain	Solar	Soil(15cm)			Soil(30cm)											
	m/s			oc			%			mm	MJ/m2	temp oC			temp oC											
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Total	Total	Min	Avg	Max	Min	Avg	Max									
1 ( 1)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0									
2 ( 2)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0									
3 ( 3)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0									
4 ( 4)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0									
5 ( 5)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0									
6 ( 6)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0									
7 ( 7)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0									
8 ( 8)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0									
9 ( 9)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0									
10 ( 10)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0									
11 ( 11)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0									
12 ( 12)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0									
13 ( 13)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0									
14 ( 14)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0									
15 ( 15)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0									
16 ( 16)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0									
17 ( 17)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0									
18 ( 18)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0									
19 ( 19)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0									
20 ( 20)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0									
21 ( 21)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0									
22 ( 22)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0									
23 ( 23)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0									
24 ( 24)	0.3	1.3	3.0	22.8	27.7	31.2	39.8	58.3	86.0	0.0	5.4	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0									
25 ( 25)	0.2	1.8	3.5	20.9	25.0	31.7	32.7	64.9	90.6	0.0	23.2	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0									
26 ( 26)	0.1	1.9	4.0	21.0	25.4	31.6	35.0	68.2	89.4	0.0	25.7	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0									
27 ( 27)	0.2	2.4	4.6	21.2	25.4	30.5	41.9	65.0	86.5	0.0	25.1	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0									
28 ( 28)	0.9	3.0	5.3	21.9	25.6	29.7	33.9	54.4	71.2	0.0	26.2	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0									
29 ( 29)	0.3	2.4	4.1	20.9	25.0	30.8	33.8	57.7	73.1	0.0	26.1	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0									
30 ( 30)	0.1	1.6	4.1	20.8	25.4	30.8	36.9	65.8	86.4	0.0	24.1	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0									
31 ( 31)	0.3	2.0	3.9	21.4	25.5	31.7	27.9	64.7	91.4	0.0	25.5	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0									
										0.1	2.1	5.3	20.8	25.6	31.7	27.9	62.4	91.4	0.0	181	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0

No data or Invalid data.

KERALA FOREST RESEARCH INSTITUTE , DAILY FOREST METEOROLOGICAL DATA  
 Station 1. Peechi-Vazhani WLS 1st March 1997 to 31st March 1997

Day	Wind speed			Temperature			Humidity			Rain mm	Solar MJ/m2	Soil(15cm)			Soil(30cm)		
	m/s			oC			%					temp oC			temp oC		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max			Total	Total	Min	Avg	Max	Min
1 ( 60)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
2 ( 61)	-99.0	-99.0	-99.0	-99.0	-59.0	-99.0	-99.0	-99.0	-99.0	0.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
3 ( 62)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
4 ( 63)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
5 ( 64)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
6 ( 65)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
7 ( 66)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
8 ( 67)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
9 ( 68)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
10 ( 69)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
11 ( 70)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
12 ( 71)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
13 ( 72)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
14 ( 73)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
15 ( 74)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
16 ( 75)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
17 ( 76)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
18 ( 77)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
19 ( 78)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
20 ( 79)	0.3	1.1	2.0	26.8	30.9	34.0	53.6	66.5	84.4	0.0	12.5	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
21 ( 80)	0.0	0.7	1.6	24.0	28.6	34.6	50.5	75.9	99.1	0.0	22.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
22 ( 81)	0.3	0.9	2.3	23.7	28.7	35.8	43.7	69.3	85.6	0.0	23.3	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
23 ( 82)	0.0	0.9	2.7	23.5	28.4	33.6	59.5	77.9	95.5	0.0	19.7	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
24 ( 83)	0.2	1.1	2.2	22.3	27.9	35.2	35.2	72.7	92.3	0.0	24.9	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
25 ( 84)	0.1	0.7	1.5	25.2	29.0	34.5	53.5	77.6	93.0	0.0	20.5	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
26 ( 85)	0.1	1.8	4.1	25.5	29.6	36.0	26.5	70.3	95.0	0.0	26.2	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
27 ( 86)	0.2	2.3	4.9	25.1	29.9	35.6	30.7	62.0	89.9	0.0	27.3	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
28 ( 87)	0.2	1.7	4.4	25.0	29.3	35.7	32.4	68.6	89.2	0.0	25.7	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
29 ( 88)	0.1	1.3	3.6	25.1	29.4	36.7	31.0	68.1	89.9	0.0	25.2	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
30 ( 89)	0.2	1.0	2.0	24.3	28.5	34.8	48.3	72.2	89.0	0.0	21.5	-99.0	-99.0	-99.0	-59.0	-99.0	-99.0
31 ( 90)	0.3	1.0	1.9	24.4	28.8	34.7	42.6	70.2	89.2	0.0	24.5	31.6	33.2	37.5	31.6	32.2	36.3
	0.0	1.2	4.9	22.3	29.1	36.7	26.5	70.9	99.1	0.0	273	31.6	33.2	37.5	31.6	32.2	36.3

-99.00 indicate No data or Invalid data

KERALA FOREST RESEARCH INSTITUTE. DAILY FOREST METEOROLOGICAL DATA  
Station 1, Peechi-Vazhani WLS 1st March 1997 to 31st March 1997

Day	Wind speed			Temperature			Humidity			Rain mm	Solar MJ/m2	Soil(15cm)			Soil(30cm)		
	m/s			oc			%					temp oC			temp oC		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Total	Total	Min	Avg	Max	Min	Avg	Max
1 ( 60)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
2 ( 61)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-59.0
3 ( 62)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
4 ( 63)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
5 ( 64)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
6 ( 65)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
7 ( 66)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
8 ( 67)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
9 ( 68)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
10 ( 69)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
11 ( 70)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
12 ( 71)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
13 ( 72)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
14 ( 73)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
15 ( 74)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
16 ( 75)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-59.0
17 ( 76)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
18 ( 77)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
19 ( 78)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
20 ( 79)	0.3	1.1	2.0	26.8	30.9	34.0	53.6	66.5	84.4	0.0	12.5	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
21 ( 80)	0.0	0.7	1.6	24.0	28.6	34.6	50.5	75.9	99.1	0.0	22.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
22 ( 81)	0.3	0.9	2.3	23.7	28.7	35.8	43.7	69.3	85.6	0.0	23.3	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
23 ( 82)	0.0	0.9	2.7	23.5	28.4	33.6	59.5	77.9	95.5	0.0	19.7	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
24 ( 83)	0.2	1.1	2.2	22.3	27.9	35.2	35.2	72.7	92.3	0.0	24.9	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
25 ( 84)	0.1	0.7	1.5	25.2	29.0	34.5	53.5	77.6	93.0	0.0	20.5	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
26 ( 85)	0.1	1.8	4.1	25.5	29.6	36.0	26.5	70.3	95.0	0.0	26.2	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
27 ( 86)	0.2	2.3	4.9	26.1	29.9	35.6	30.7	62.0	89.9	0.0	27.3	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
28 ( 87)	0.2	1.7	4.4	25.0	29.3	35.7	32.4	68.6	89.2	0.0	25.7	-99.0	-99.0	-99.0	-39.0	-39.0	-99.0
29 ( 88)	0.1	1.3	3.6	25.1	29.4	36.7	31.0	68.1	89.9	0.0	25.2	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
30 ( 89)	0.2	1.0	2.0	24.3	28.5	34.8	48.3	72.2	89.0	0.0	21.5	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
31 ( 90)	0.3	1.0	1.9	24.4	28.8	34.7	42.6	70.2	89.2	0.0	24.5	31.6	33.2	37.5	31.6	32.2	36.3
	0.0	1.2	4.9	22.3	29.1	36.7	26.5	70.9	99.1	0.0	273	31.6	33.2	37.5	31.6	32.2	36.3

-99.00 indicate No data or Invalid data.



## KERALA FOREST RESEARCH INSTITUTE, DAILY FOREST METEOROLOGICAL DATA

Station 1. Peechi-Vazhani WLS 1st April 1997 to 30th April 1997

Day	Wind speed			Temperature			Humidity			Rain mm	Solar MJ/m2	Soil(15cm) temp oC			Soil(30cm) temp oC		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max			Min	Avg	Max	Min	Avg	Max
1 ( 91)	0.0	0.9	3.8	23.4	27.8	35.2	48.4	78.3	93.8	0.0	21.5	29.5	30.9	32.8	31.0	31.3	31.7
2 ( 92)	0.0	1.0	2.2	23.5	28.5	36.3	42.9	74.8	94.9	0.0	24.9	28.5	30.2	32.0	30.4	30.9	31.4
3 ( 93)	0.2	0.8	1.7	24.0	28.9	34.0	50.4	74.9	94.6	0.0	23.6	29.2	30.8	32.5	30.0	30.9	31.3
4 ( 94)	0.1	0.7	1.7	23.8	28.9	34.8	41.8	72.1	95.0	0.0	23.4	29.1	30.6	32.2	30.7	31.0	31.3
5 ( 95)	0.1	0.8	1.9	25.5	28.7	33.5	54.6	73.8	90.9	0.2	18.0	29.7	30.4	31.1	30.8	31.0	31.3
6 ( 96)	0.1	1.2	3.0	24.0	28.7	35.5	36.9	69.0	90.1	0.0	24.1	28.7	30.1	31.7	30.3	30.6	31.0
7 ( 97)	0.1	0.9	2.4	25.7	29.3	34.7	46.1	71.3	88.6	0.6	21.3	29.4	30.5	31.7	30.5	30.8	31.0
8 ( 98)	0.0	0.8	1.8	25.5	29.3	33.6	57.6	74.4	90.5	0.0	22.1	29.3	30.6	31.9	30.6	30.8	31.1
9 ( 99)	0.0	0.8	2.1	25.1	29.5	35.0	49.6	72.6	94.1	0.0	26.7	29.5	30.9	32.3	30.6	30.9	31.3
10 (100)	0.0	0.7	1.7	25.5	29.2	35.2	43.7	69.8	87.7	0.0	23.2	29.5	30.8	32.3	30.8	31.1	31.3
11 (101)	0.0	0.7	2.1	24.8	28.8	34.0	49.3	73.8	95.3	0.0	24.1	29.3	30.6	32.0	30.7	31.0	31.3
12 (102)	0.0	0.8	2.3	23.8	28.8	34.6	41.9	71.0	93.0	0.0	26.6	28.8	30.5	32.3	30.5	30.8	31.1
13 (103)	0.0	0.8	1.6	23.9	28.8	35.5	38.1	72.3	95.5	0.0	27.0	28.9	30.8	33.1	30.5	30.9	31.3
14 (104)	0.0	0.7	1.8	24.0	29.0	34.7	43.3	71.0	96.4	0.0	26.0	29.2	30.8	32.4	30.7	31.0	31.3
15 (105)	0.0	0.7	1.8	25.0	28.9	34.7	47.8	71.7	90.5	0.0	22.2	29.2	30.8	32.7	30.7	31.0	31.3
16 (106)	0.0	0.7	2.2	24.1	27.9	33.6	55.8	75.4	93.6	0.0	19.5	28.9	30.3	31.9	30.0	30.8	31.2
17 (107)	0.1	0.7	2.0	23.6	28.5	34.9	43.8	72.5	94.6	0.0	24.9	28.5	30.3	32.6	30.2	30.6	30.9
18 (108)	0.0	1.0	2.1	23.8	29.2	35.0	41.0	66.8	86.2	0.0	22.7	28.9	30.7	32.7	30.4	30.7	31.1
19 (109)	0.0	0.8	2.0	24.9	29.3	35.5	37.3	70.9	91.6	0.0	22.5	29.2	31.1	33.5	30.5	30.9	31.3
20 (110)	0.0	1.1	2.5	24.4	29.2	34.8	40.6	70.0	87.0	0.0	20.4	29.4	31.1	33.2	30.7	31.0	31.3
21 (111)	0.0	1.0	2.1	24.5	29.4	36.5	29.2	71.2	91.5	0.0	24.4	29.4	31.4	34.0	30.7	31.1	31.5
22 (112)	0.0	0.7	1.8	24.7	29.3	35.1	44.4	73.0	94.5	0.0	22.7	29.6	31.4	33.5	30.9	31.2	31.5
23 (113)	0.0	1.0	2.3	24.5	29.3	36.0	32.8	71.9	91.7	0.0	23.7	29.6	31.5	33.9	30.9	31.3	31.6
24 (114)	0.0	0.6	1.8	24.8	29.5	35.3	49.2	74.6	96.0	0.0	23.6	29.7	31.8	34.4	31.0	31.4	31.8
25 (115)	0.0	0.7	1.9	25.9	30.2	36.4	41.4	73.2	92.0	0.0	24.9	30.2	32.2	34.7	31.2	31.6	32.1
26 (116)	0.0	0.6	2.0	26.3	29.9	35.0	51.8	73.7	89.0	0.0	21.2	30.5	32.0	33.6	31.5	31.8	32.1
27 (117)	0.0	0.7	1.6	25.7	30.2	35.8	41.4	70.4	91.9	0.0	22.2	29.9	31.7	33.7	31.3	31.6	32.0
28 (118)	0.0	0.5	1.3	26.1	28.9	32.8	63.5	78.6	91.7	0.0	14.6	30.2	31.3	32.3	31.3	31.5	31.9
29 (119)	0.0	0.6	1.4	25.1	28.8	33.6	54.7	76.7	92.6	0.0	14.1	29.6	30.7	31.8	30.8	31.1	31.5
30 (120)	0.0	0.6	2.1	25.7	28.8	35.5	52.1	73.5	87.9	0.0	20.4	29.3	30.9	33.4	30.5	30.8	31.2
	0.0	0.8	3.8	23.4	29.1	36.5	29.2	72.8	96.4	0.8	677	28.5	30.9	34.7	30.0	31.1	32.1

-99.00 indicate No data or Invalid data.

## KERALA FOREST RESEARCH INSTITUTE. DAILY FOREST METEOROLOGICAL DATA

Station 1. Peechi-Vazhani WLS 1st May 1997 to 31st May 1997

Day	Wind speed			Temperature			Humidity			Rain mm	Solar MJ/m2	Soil(15cm)			Soil(30cm)		
	m/s			oC			%					temp oC			temp oC		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Total	Total	Min	Avg	Max	Min	Avg	Max
1 (121)	0.0	0.9	2.5	22.4	28.7	34.9	50.1	77.2	99.8	33.8	20.5	26.5	30.6	33.3	30.3	30.9	31.4
2 (122)	0.1	1.0	1.7	22.8	27.8	35.1	49.2	77.6	100.0	4.0	20.4	26.6	28.2	30.5	29.1	29.5	30.0
3 (123)	0.0	0.6	2.0	24.7	28.0	34.8	55.6	80.4	98.8	0.2	20.0	27.7	29.0	31.2	29.1	29.5	29.9
4 (124)	0.1	0.8	2.0	24.0	28.7	34.7	52.3	75.2	96.3	0.0	24.8	27.3	28.9	31.1	28.9	29.4	29.8
5 (125)	0.0	0.7	2.0	24.5	28.4	34.4	58.1	79.5	98.8	0.0	20.7	27.8	29.2	31.3	29.2	29.6	30.0
6 (126)	0.0	1.1	1.9	24.6	28.6	34.8	50.1	73.5	90.6	0.0	19.7	27.5	28.8	30.6	29.1	29.5	29.9
7 (127)	0.0	0.8	2.6	23.7	27.1	33.3	58.4	85.8	100.0	10.4	14.5	27.7	28.6	29.8	29.1	29.4	29.7
8 (128)	0.0	0.8	1.6	24.1	27.7	33.6	60.8	83.7	100.0	0.4	19.7	27.0	28.3	30.2	28.5	28.9	29.3
9 (129)	0.0	0.4	1.1	24.1	28.4	34.3	58.6	83.7	100.0	0.0	19.6	27.3	28.8	30.7	28.6	29.0	29.5
10 (130)	0.0	0.4	1.0	26.3	29.6	34.0	59.3	81.4	100.0	0.0	17.8	28.2	29.3	30.5	29.1	29.4	29.8
11 (131)	0.0	0.6	1.5	26.0	29.1	34.5	59.4	81.6	100.0	0.0	20.2	28.2	29.5	31.2	29.3	29.6	30.0
12 (132)	0.0	0.5	1.1	25.4	29.3	35.2	50.8	77.0	100.0	0.0	20.1	28.1	29.5	31.3	29.4	29.7	30.1
13 (133)	0.0	0.7	1.9	24.8	29.3	35.0	57.9	78.5	99.0	0.0	23.1	27.9	29.5	31.7	29.4	29.8	30.3
14 (134)	0.0	0.4	0.8	25.7	29.4	34.0	61.0	80.8	100.0	0.0	18.2	28.5	29.8	31.1	29.8	30.1	30.4
15 (135)	0.0	0.8	1.7	25.6	28.4	31.9	69.2	83.8	100.0	2.0	14.4	28.8	29.5	30.6	29.8	30.1	30.3
16 (136)	0.0	0.4	1.2	24.8	28.1	32.4	66.2	81.1	94.6	0.4	13.1	27.9	28.9	29.9	29.3	29.6	30.0
17 (137)	0.0	0.5	1.4	25.1	28.1	31.9	61.4	79.5	94.8	0.0	12.3	27.8	28.6	29.5	29.1	29.3	29.6
18 (138)	0.0	0.6	1.7	24.2	28.3	32.5	61.7	80.4	98.3	0.0	16.2	27.3	28.4	29.6	28.8	29.1	29.3
19 (139)	0.0	0.7	1.2	25.5	29.1	33.6	55.8	76.3	95.7	0.0	19.9	27.8	29.0	30.6	29.0	29.3	29.7
20 (140)	0.0	0.7	1.7	23.8	28.5	34.5	50.1	77.1	99.2	0.0	22.7	27.5	29.0	30.8	29.0	29.4	29.8
21 (141)	0.0	0.7	1.8	23.7	28.5	34.6	41.0	73.6	97.5	0.0	22.6	27.6	29.0	30.8	29.2	29.6	29.9
22 (142)	0.0	0.7	1.6	23.2	28.4	34.5	45.3	73.5	98.5	0.0	23.8	27.5	29.0	31.0	29.1	29.6	30.1
23 (143)	0.0	0.5	1.3	23.5	28.2	33.2	61.9	79.5	96.6	0.0	15.2	27.7	28.9	30.0	29.3	29.7	30.1
24 (144)	0.0	0.6	1.7	25.6	28.8	34.2	62.2	80.5	97.4	0.0	16.4	28.3	29.4	31.0	29.5	29.8	30.1
25 (145)	0.0	0.6	1.9	24.7	29.1	34.6	57.0	76.6	95.7	0.0	19.0	28.1	29.3	30.7	29.5	29.8	30.2
26 (146)	0.0	0.9	3.0	22.7	27.6	34.0	59.2	83.3	100.0	15.8	20.8	26.6	28.4	30.2	28.8	29.2	30.1
27 (147)	0.0	0.5	1.3	22.7	27.9	33.9	57.7	79.5	100.0	0.4	21.4	27.5	28.8	29.9	29.0	29.3	29.6
28 (148)	0.0	0.3	1.0	24.9	28.4	32.8	64.9	83.1	100.0	0.0	17.4	28.0	28.9	29.8	29.1	29.4	29.6
29 (149)	0.0	0.5	1.2	25.3	29.2	34.1	53.9	78.8	100.0	0.2	23.4	28.1	29.1	30.3	29.1	29.4	29.8
30 (150)	0.0	0.5	1.0	25.7	29.2	33.5	57.8	76.6	94.6	0.0	20.4	28.5	29.3	30.2	29.4	29.7	29.9
31 (151)	0.0	0.5	1.3	25.8	29.4	34.0	59.7	77.4	96.9	0.0	21.1	28.4	29.3	30.3	29.4	29.7	30.0
	0.0	0.6	3.0	22.4	28.6	35.2	41.0	79.2	100.0	67.6	599	26.5	29.1	33.3	28.5	29.6	31.4

-99.00 indicate No data or Invalid data.

## KERALA FOREST RESEARCH INSTITUTE. DAILY FOREST METEOROLOGICAL DATA

Station 1. Peechi-Vazhani WLS 1st June 1997 to 30th June 1997

Day	Wind speed			Temperature			Humidity			Rain mm	Solar MJ/m <sup>2</sup>	Soil(15cm)			Soil(30cm)		
	m/s			oc			%					temp oC			temp oc		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Total	Total	Min	Avg	Max	Min	Avg	Max
1 (152)	0.0	0.5	1.2	24.4	28.0	33.1	60.0	82.8	100.0	2.6	15.3	28.4	29.1	29.8	29.4	29.7	30.0
2 (153)	0.0	0.6	2.0	24.7	28.8	34.5	47.8	76.8	100.0	0.0	24.7	28.1	29.1	30.2	29.2	29.5	29.9
3 (154)	0.0	0.5	1.3	25.0	29.2	35.3	48.4	76.5	94.7	0.0	19.3	28.2	29.4	30.6	29.3	29.7	30.2
4 (155)	0.0	0.6	1.5	25.4	29.8	35.7	47.7	74.5	97.9	0.0	23.2	28.7	29.8	31.1	29.7	30.1	30.4
5 (156)	0.0	0.4	1.4	22.0	27.2	33.2	58.4	84.1	100.0	23.8	19.3	27.2	28.7	29.8	29.2	29.7	30.4
6 (157)	0.0	0.6	1.6	23.7	28.6	33.9	60.5	81.6	100.0	0.4	24.9	27.9	29.2	30.7	29.2	29.6	29.9
7 (158)	0.0	0.6	1.6	24.0	28.5	34.2	58.4	82.3	100.0	1.4	23.1	28.1	29.4	30.8	29.4	29.7	30.0
8 (159)	0.0	0.7	1.5	23.7	28.0	33.0	54.7	81.5	100.0	13.8	22.1	28.3	29.2	30.1	29.4	29.7	30.0
9 (160)	0.0	0.6	1.6	23.0	27.0	32.0	65.3	85.7	100.0	13.4	20.8	27.3	28.2	29.2	28.8	29.1	29.8
10 (161)	0.0	0.9	2.1	23.9	27.9	32.2	62.0	81.2	99.8	0.0	21.7	27.5	28.5	29.5	28.7	29.0	29.2
11 (162)	0.0	0.7	1.7	24.6	28.0	33.0	59.8	83.4	100.0	0.2	21.2	27.7	28.2	28.7	28.8	29.0	29.2
12 (163)	0.0	0.9	1.9	23.8	26.8	29.9	72.0	85.8	100.0	2.8	17.4	27.5	28.0	28.5	28.7	28.8	29.0
13 (164)	0.0	0.7	1.6	23.2	26.2	30.3	71.4	88.6	100.0	21.2	16.1	26.4	27.7	28.6	27.8	28.5	28.8
14 (165)	0.0	0.5	1.6	22.6	25.7	29.8	71.0	90.0	100.0	17.4	14.5	25.4	26.4	27.6	26.9	27.3	27.8
15 (166)	0.0	0.8	2.0	22.6	26.0	31.1	63.9	86.7	100.0	6.8	20.8	26.3	27.2	28.2	27.5	27.7	28.0
16 (167)	0.0	0.5	1.2	22.7	27.6	32.7	59.0	81.5	100.0	0.0	24.0	26.4	27.5	28.8	27.6	27.9	28.3
17 (168)	0.0	0.5	1.4	24.1	27.5	32.2	64.9	85.3	100.0	3.4	20.7	27.0	27.9	28.7	28.0	28.3	28.5
18 (169)	0.0	0.3	1.5	23.5	26.1	29.9	71.8	90.4	100.0	19.0	17.8	26.3	27.3	28.2	27.7	28.0	28.5
19 (170)	0.0	0.6	1.8	23.0	27.2	31.7	64.1	83.7	100.0	0.0	20.3	26.7	27.5	28.4	27.8	28.0	28.2
20 (171)	0.0	0.5	1.3	23.2	27.0	31.4	65.5	85.3	100.0	2.8	19.4	26.6	27.4	28.2	27.8	28.0	28.2
21 (172)	0.0	0.5	1.5	23.6	27.6	32.8	63.4	85.4	100.0	0.0	22.1	26.8	27.7	28.7	27.8	28.0	28.4
22 (173)	0.0	0.6	2.0	24.7	27.3	31.4	69.6	89.5	100.0	3.4	19.7	27.3	27.9	28.4	28.1	28.2	28.4
23 (174)	0.0	0.6	1.5	24.0	25.0	29.0	81.6	96.6	100.0	33.8	8.9	26.3	27.0	27.8	27.2	27.8	28.4
24 (175)	0.0	0.6	1.8	23.5	24.7	27.2	90.3	97.9	100.0	16.8	9.2	26.1	26.3	26.7	27.1	27.2	27.3
25 (176)	0.1	1.0	2.3	22.5	24.4	27.3	83.5	95.5	100.0	39.6	11.8	25.0	25.6	26.2	26.2	26.4	27.1
26 (177)	0.1	0.7	1.5	22.8	24.6	27.4	87.5	95.9	100.0	16.6	8.8	24.9	25.4	25.8	26.0	26.1	26.3
27 (178)	0.0	0.6	2.0	22.4	24.6	27.5	83.9	96.1	100.0	28.8	11.2	24.3	25.0	25.7	25.4	25.7	26.3
28 (179)	0.0	0.5	0.9	22.7	23.5	25.0	97.1	99.8	100.0	77.8	3.5	24.0	24.8	25.6	24.6	25.5	26.1
29 (180)	0.1	0.4	1.2	22.3	23.6	24.9	96.1	99.8	100.0	82.2	7.0	23.2	24.0	24.7	24.0	24.5	24.8
30 (181)	0.1	0.7	1.6	22.8	23.5	24.9	97.3	99.6	100.0	90.4	6.4	23.2	23.7	24.4	23.5	24.0	24.8
	0.0	0.6	2.3	22.0	26.7	35.7	47.7	87.5	100.0	518.4	515	23.2	27.4	31.1	23.5	28.0	30.4

-99.00 indicate No data or Invalid data.

## KERALA FOREST RESEARCH INSTITUTE, DAILY FOREST METEOROLOGICAL DATA

Station 1. Peechi-Vazhani WLS 1st July 1997 to 31st July 1997

Day	Wind speed			Temperature			Humidity			Rain mm	Solar MJ/m2	Soil(15cm) temp oC			Soil(30cm) temp oC		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max			Min	Avg	Max	Min	Avg	Max
1 (182)	0.3	1.3	2.3	22.4	24.0	26.3	87.5	98.7	100.0	59.2	7.6	23.4	23.9	24.3	24.1	24.3	24.5
2 (183)	0.3	1.0	2.1	23.0	24.8	28.5	76.6	94.8	100.0	44.8	14.8	23.6	24.2	24.9	24.0	24.3	24.8
3 (184)	0.0	0.5	1.5	22.8	24.1	27.2	85.3	97.6	100.0	17.4	10.4	24.0	24.4	24.9	24.6	24.7	24.9
4 (185)	0.0	0.5	1.8	22.9	24.6	28.4	79.1	94.9	100.0	7.8	13.0	24.1	24.8	25.3	24.6	25.0	25.2
5 (186)	0.1	0.8	1.8	23.2	24.9	28.3	82.2	95.3	100.0	8.0	11.5	24.6	24.9	25.4	25.1	25.2	25.4
6 (187)	0.0	0.5	1.4	22.9	24.0	26.4	92.6	99.1	100.0	41.2	5.5	24.6	24.8	25.2	25.2	25.3	25.4
7 (188)	0.0	0.8	1.8	22.5	23.8	26.0	90.2	97.9	100.0	20.2	7.5	24.1	24.4	24.7	24.8	25.0	25.1
8 (189)	0.0	0.9	1.9	22.9	26.3	30.5	69.9	88.2	100.0	3.4	19.0	24.2	24.9	25.8	24.8	25.0	25.5
9 (190)	0.2	0.7	1.5	22.8	24.4	26.1	90.3	97.3	100.0	42.6	5.4	24.0	24.7	25.5	24.6	25.1	25.5
10 (191)	0.0	1.0	2.5	22.7	24.1	27.3	88.0	98.1	100.0	37.0	8.5	24.1	24.6	25.2	24.9	25.1	25.3
11 (192)	0.0	0.9	2.2	22.2	23.8	26.4	83.6	96.6	100.0	18.4	8.0	23.7	24.2	24.7	24.6	24.7	24.9
12 (193)	0.0	0.4	1.8	22.3	24.8	27.8	81.8	94.0	100.0	3.8	10.8	24.0	24.7	25.5	24.8	24.9	25.3
13 (194)	0.0	0.5	1.7	23.1	25.1	29.1	81.5	96.3	100.0	7.4	9.7	24.5	25.2	25.8	25.1	25.3	25.6
14 (195)	0.0	0.5	1.0	23.8	25.4	29.7	79.3	96.2	100.0	32.2	11.8	24.7	25.6	26.3	25.2	25.6	25.9
15 (196)	0.0	0.6	1.0	23.8	26.3	30.4	74.6	92.6	100.0	22.8	15.5	25.0	25.9	27.1	25.6	25.8	26.4
16 (197)	0.0	0.5	1.3	23.3	25.2	28.2	87.3	96.8	100.0	13.4	11.5	25.4	26.0	26.6	26.0	26.2	26.4
17 (198)	0.1	0.5	1.1	23.3	25.8	29.7	79.8	95.5	100.0	36.0	13.3	24.8	25.9	27.0	25.6	26.0	26.5
18 (199)	0.1	0.4	1.2	24.0	25.5	28.6	85.7	96.7	100.0	12.0	9.2	25.7	26.2	26.7	26.2	26.4	26.5
19 (200)	0.2	0.5	1.0	23.4	25.7	29.2	82.9	94.5	100.0	70.6	12.8	24.1	25.3	26.2	24.8	25.5	26.5
20 (201)	0.1	0.4	0.8	24.9	26.9	29.6	74.6	91.2	100.0	1.6	15.0	25.7	26.3	27.1	26.0	26.2	26.6
21 (202)	0.1	0.9	2.4	23.3	26.5	30.7	74.5	91.9	100.0	20.4	15.1	25.9	26.6	27.6	26.4	26.6	26.9
22 (203)	0.3	0.6	1.0	23.0	26.3	30.2	74.4	89.6	100.0	5.0	16.8	25.3	26.2	27.5	26.1	26.4	26.8
23 (204)	0.3	0.7	1.6	24.2	25.8	29.0	77.3	93.4	100.0	10.2	12.7	26.1	26.6	27.1	26.6	26.7	26.8
24 (205)	0.3	1.3	2.3	22.2	23.8	26.1	93.7	99.2	100.0	76.6	7.6	24.0	24.9	26.3	25.1	25.6	26.8
25 (206)	0.0	1.2	1.8	23.2	24.7	27.7	85.1	96.7	100.0	34.6	10.6	24.0	24.7	25.5	24.9	25.2	25.6
26 (207)	0.0	0.7	1.8	23.4	24.6	27.3	89.8	98.8	100.0	31.2	9.1	24.6	25.2	25.8	25.2	25.5	25.7
27 (208)	0.0	0.6	1.9	23.1	24.9	28.9	78.7	96.0	100.0	32.2	14.1	24.6	25.4	26.3	25.4	25.6	26.0
28 (209)	0.1	0.7	1.8	22.9	25.3	29.5	74.5	92.3	100.0	19.6	17.1	24.8	25.7	26.7	25.5	25.8	26.2
29 (210)	0.0	0.3	0.9	23.4	24.1	26.3	88.4	98.4	100.0	17.6	6.1	25.3	25.5	26.0	25.8	26.0	26.2
30 (211)	0.1	1.4	2.4	23.7	26.0	28.5	83.5	94.2	100.0	8.6	11.1	24.8	25.4	26.0	25.5	25.7	25.9
31 (212)	0.8	1.7	2.3	25.2	27.1	29.6	74.8	90.8	99.4	7.8	15.6	25.6	26.1	26.8	25.9	26.0	26.4
	0.0	0.7	2.5	22.2	25.1	30.7	69.9	95.3	100.0	763.6	357	23.4	25.3	27.6	24.0	25.5	26.9

-99.00 indicate No data or Invalid data.

## KERALA FOREST RESEARCH INSTITUTE. DAILY FOREST METEOROLOGICAL DATA

Station 1. Peechi-Vazhani WLS 1st August 1997 to 31st August 1997

Day	Wind speed			Temperature			Humidity			Rain mm	Solar MJ/m <sup>2</sup>	Soil(15cm)			Soil(30cm)		
	m/s			oC			%					temp oC			temp oC		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Total	Total	Min	Avg	Max	Min	Avg	Max
1 (213)	0.6	1.5	2.5	23.8	26.7	29.6	80.3	93.8	100.0	27.6	13.3	25.5	26.2	26.8	26.1	26.3	26.5
2 (214)	0.1	1.1	2.0	24.0	26.4	29.2	81.5	94.1	100.0	13.8	12.0	26.1	26.5	26.9	26.5	26.6	26.7
3 (215)	0.1	0.5	1.5	22.0	24.4	28.1	87.5	97.9	100.0	11.2	9.7	24.8	25.6	26.2	25.9	26.2	26.7
4 (216)	0.0	0.8	9.9	23.7	25.7	29.8	74.8	94.0	100.0	58.6	13.4	25.1	25.9	27.0	25.8	26.1	26.5
5 (217)	0.0	1.5	8.1	24.6	26.7	29.8	71.6	88.8	100.0	9.5	20.0	25.8	26.4	27.1	26.3	26.5	26.7
6 (218)	0.0	0.9	7.0	22.2	24.1	26.3	91.7	97.8	100.0	45.5	9.3	24.8	25.5	26.5	25.7	26.1	26.8
7 (219)	0.0	0.7	5.6	22.3	22.9	24.1	100.0	100.0	100.0	142.8	3.3	23.1	23.7	25.1	23.4	24.0	25.9
8 (220)	0.0	0.4	1.2	22.6	24.1	26.2	88.0	97.4	100.0	68.2	8.0	23.7	24.1	24.7	24.3	24.5	24.8
9 (221)	0.1	0.6	1.3	22.8	25.0	28.3	82.4	93.8	100.0	4.0	12.2	24.1	24.7	25.4	24.7	24.9	25.2
10 (222)	0.0	0.6	1.5	22.5	25.3	29.1	75.3	90.5	100.0	0.2	16.3	24.4	25.1	25.8	25.0	25.2	25.5
11 (223)	0.0	0.7	1.6	22.8	25.7	30.0	72.3	90.3	100.0	4.2	20.1	24.8	25.6	26.5	25.3	25.5	26.0
12 (224)	0.1	0.5	1.2	23.1	25.2	27.8	86.8	96.4	100.0	27.4	10.6	25.0	25.6	26.0	25.6	25.8	26.0
13 (225)	0.0	0.5	1.7	23.6	26.2	29.8	75.4	91.7	100.0	0.0	15.6	25.2	26.0	27.0	25.9	24.9	26.3
14 (226)	0.0	0.4	0.8	23.5	26.6	30.7	69.9	88.4	100.0	0.0	19.8	25.3	26.3	27.7	25.9	26.2	26.6
15 (227)	0.0	0.5	1.4	24.1	27.1	31.8	66.9	87.8	100.0	0.0	21.9	25.7	26.8	28.5	26.3	26.6	27.0
16 (228)	0.1	0.5	0.8	24.2	26.8	30.7	71.9	89.0	100.0	0.0	18.4	25.9	26.9	28.3	26.6	26.9	27.2
17 (229)	0.0	0.5	1.0	22.7	24.5	26.7	86.4	96.7	100.0	34.6	8.7	25.1	25.9	26.8	26.3	26.6	27.2
18 (230)	0.0	0.5	1.1	23.0	25.9	30.1	70.4	89.3	100.0	0.6	18.6	25.0	25.9	27.3	25.9	26.2	26.5
19 (231)	0.1	0.5	1.1	23.5	26.0	29.9	75.0	92.2	100.0	16.0	16.9	25.3	26.3	27.5	26.1	26.4	26.8
20 (232)	0.1	0.7	1.5	23.7	25.3	28.0	84.5	95.8	100.0	3.0	9.5	25.5	26.3	27.4	26.3	26.5	26.7
21 (233)	0.0	0.9	2.0	23.4	25.4	28.8	83.5	96.2	100.0	44.6	11.9	25.4	26.6	28.3	26.2	26.6	27.1
22 (234)	0.1	1.0	2.9	22.6	24.6	27.5	85.0	95.4	100.0	29.8	9.7	24.6	25.8	27.3	25.0	26.1	26.9
23 (235)	0.3	0.8	2.0	23.1	25.5	28.7	85.0	95.5	100.0	21.8	13.1	25.1	26.7	28.5	26.0	26.6	27.1
24 (236)	0.2	0.7	1.6	24.2	26.7	30.5	73.3	90.1	100.0	0.0	20.0	25.7	27.7	30.2	26.5	27.1	27.8
25 (237)	0.1	0.6	1.2	23.8	26.5	30.7	72.0	90.2	100.0	21.6	19.7	26.1	28.0	30.6	27.0	27.6	28.4
26 (238)	0.0	0.4	0.9	23.5	25.1	28.2	84.4	95.8	100.0	16.0	13.5	26.0	27.4	29.0	27.1	27.5	28.1
27 (239)	0.1	0.6	1.3	23.1	24.3	26.9	87.9	97.8	100.0	16.6	8.0	26.0	26.8	27.8	27.0	27.3	27.8
28 (240)	0.2	0.7	1.3	23.3	25.0	27.9	88.5	97.0	100.0	18.4	10.3	25.5	26.6	28.2	26.4	26.8	27.1
29 (241)	0.2	0.7	1.6	23.3	24.3	25.4	97.1	99.8	100.0	17.2	5.8	25.7	26.3	26.9	26.6	26.8	27.1
30 (242)	0.2	0.6	1.0	23.6	25.8	29.3	79.8	93.8	100.0	3.6	12.8	25.3	26.5	28.2	26.2	26.5	27.0
31 (243)	0.0	0.4	1.0	24.3	26.9	30.9	74.0	90.1	100.0	0.2	19.2	25.9	27.8	30.4	26.6	27.1	28.0
	0.0	0.7	9.9	22.0	25.5	31.8	66.9	93.8	100.0	657.0	421	23.1	26.2	30.6	23.4	26.3	28.4

-99.00 indicate No data or Invalid data.

## KERALA FOREST RESEARCH INSTITUTE. DAILY FOREST METEOROLOGICAL DATA

Station 1. Peechi-Vazhani WLS 1st October 1997 to 31st October 1997

Day	Wind speed			Temperature			Humidity			Rain mm	Solar MJ/m2	Soil(15cm)			Soil(30cm)		
	m/s			oC			%					temp oC			temp oC		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Total	Total	Min	Avg	Max	Min	Avg	Max
1 (274)	0.1	0.6	1.5	21.8	25.8	30.7	72.7	90.9	100.0	49.8	20.0	25.2	28.0	30.1	26.9	28.1	29.5
2 (275)	0.0	0.5	1.5	22.2	26.3	31.2	71.2	89.5	100.0	0.0	25.4	26.6	28.8	31.4	28.1	28.7	29.4
3 (276)	0.0	0.4	1.7	23.1	26.5	30.6	72.4	89.9	100.0	0.0	20.6	27.5	29.0	30.9	28.6	29.0	29.4
4 (277)	0.0	0.4	1.1	24.0	27.4	32.0	69.9	88.9	100.0	0.0	21.2	27.6	29.2	31.1	28.6	29.1	29.6
5 (278)	0.0	0.5	1.1	23.9	27.3	31.4	74.2	89.4	100.0	0.0	22.7	27.9	29.5	31.5	28.8	29.3	29.9
6 (279)	0.0	0.5	1.9	24.1	27.0	32.6	71.6	90.2	100.0	0.0	19.5	28.1	29.5	31.3	29.1	29.5	29.8
7 (280)	0.1	0.6	2.7	22.5	26.3	32.3	70.9	91.6	100.0	15.2	16.9	27.7	29.2	31.8	28.8	29.3	29.9
8 (281)	0.0	0.8	2.9	23.4	26.7	32.4	67.4	89.2	100.0	0.4	21.2	27.0	28.9	31.8	28.4	29.0	29.7
9 (282)	0.0	0.9	1.8	24.1	27.3	32.7	59.5	87.8	100.0	0.0	24.0	27.6	29.9	33.0	28.8	29.5	30.3
10 (283)	0.0	1.0	2.2	23.7	27.1	32.3	59.9	87.8	100.0	0.0	24.2	27.8	30.3	33.6	29.1	29.9	30.6
11 (284)	0.1	1.2	3.0	23.8	27.5	32.8	58.1	85.2	100.0	1.2	24.4	28.1	30.7	34.0	29.4	30.2	31.0
12 (285)	0.1	1.4	3.8	24.0	27.6	33.3	58.0	85.6	100.0	1.0	24.1	28.4	30.7	33.7	29.7	30.4	30.9
13 (286)	0.5	1.4	2.9	24.0	26.6	31.6	68.2	89.2	100.0	20.6	20.7	28.1	30.1	33.3	29.5	30.2	30.8
14 (287)	0.2	0.9	2.3	22.9	25.1	29.5	78.2	95.0	100.0	12.0	10.1	27.6	28.5	30.0	29.1	29.5	30.4
15 (288)	0.0	1.1	2.6	23.0	26.7	32.5	58.7	87.8	100.0	0.0	25.5	26.7	29.1	32.3	28.2	28.9	29.9
16 (289)	0.4	1.8	3.3	23.5	27.3	31.6	66.7	84.0	100.0	1.0	24.1	27.3	29.7	32.5	28.8	29.5	30.1
17 (290)	0.1	2.0	3.2	25.1	28.1	31.3	68.6	81.6	91.6	0.0	20.8	27.7	29.8	32.2	29.1	29.7	30.2
18 (291)	0.3	1.8	3.5	25.0	28.2	31.6	65.6	81.8	99.8	4.0	23.5	27.5	29.9	32.7	29.0	29.7	30.4
19 (292)	0.1	1.2	2.8	24.5	27.5	32.4	62.7	86.3	100.0	12.8	21.5	27.9	29.8	31.9	29.3	29.8	30.3
20 (293)	0.1	1.2	2.5	23.2	26.3	31.8	66.5	90.7	100.0	14.8	20.6	27.4	29.3	32.1	28.9	29.5	30.1
21 (294)	0.3	0.9	1.8	23.0	25.7	30.0	76.9	95.0	100.0	1.2	12.9	27.2	28.6	30.1	28.8	29.2	29.9
22 (295)	0.1	0.6	1.4	23.2	26.4	31.4	72.3	92.4	100.0	6.7	20.2	27.0	28.8	31.2	28.3	28.8	29.5
23 (296)	0.0	0.5	1.5	23.8	25.9	29.9	78.5	95.0	100.0	13.4	12.8	27.0	28.5	29.7	28.3	28.9	29.5
24 (297)	0.0	0.7	1.9	23.8	26.8	32.0	69.6	91.4	100.0	0.0	20.0	27.1	28.9	31.2	28.3	28.8	29.5
25 (298)	0.1	1.3	3.2	24.1	27.1	32.0	68.2	89.0	100.0	0.0	24.3	27.5	29.5	31.8	28.7	29.3	30.0
26 (299)	0.2	1.5	2.5	24.1	27.2	31.9	65.0	87.5	98.6	0.4	21.9	28.0	29.8	31.9	29.1	29.6	30.1
27 (300)	0.0	0.4	1.8	24.4	26.4	29.9	80.7	94.7	100.0	0.0	12.3	28.3	29.3	30.3	29.2	29.6	30.1
28 (301)	0.5	1.3	2.3	21.9	26.3	31.9	66.9	87.8	100.0	27.2	22.0	27.1	29.1	31.5	28.6	29.2	29.9
29 (302)	0.1	0.8	1.7	22.6	26.4	30.5	76.4	91.8	100.0	3.8	20.2	26.9	28.5	30.5	28.4	29.0	29.5
30 (303)	0.0	1.0	2.3	23.9	25.7	28.8	73.4	92.0	100.0	0.6	15.0	27.8	28.9	30.1	28.8	29.1	29.5
31 (304)	0.1	1.1	2.0	23.4	25.6	30.9	72.4	93.4	100.0	2.4	16.6	27.3	28.6	30.2	28.5	28.9	29.3
	0.0	1.0	3.8	21.8	26.7	33.3	58.0	89.4	100.0	188.5	629	25.2	29.3	34.0	26.9	29.3	31.0

-99.00 indicate No data or Invalid data.

## KERALA FOREST RESEARCH INSTITUTE, DAILY FOREST METEOROLOGICAL DATA

Station 1. Peechi-Vazhani WLS 1st November 1997 to 30th November 1997

Day	Wind speed			Temperature			Humidity			Rain mm	Solar MJ/m2	Soil(15cm) temp oC			Soil(30cm) temp oC		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max			Min	Avg	Max	Min	Avg	Max
1 (305)	0.2	1.3	2.7	23.5	26.4	31.0	67.3	89.3	100.0	4.2	23.4	27.1	29.0	31.1	28.3	28.9	29.6
2 (306)	0.1	0.5	1.4	22.9	26.3	31.2	73.6	92.6	100.0	51.4	18.5	27.5	28.9	30.8	28.8	29.2	29.6
3 (307)	0.3	1.4	2.9	23.7	26.2	30.6	71.0	91.9	100.0	1.4	20.1	27.0	28.4	30.4	28.3	28.7	29.3
4 (308)	0.4	1.7	3.3	24.6	26.5	29.1	78.2	87.8	100.0	0.0	15.1	27.5	28.4	29.2	28.5	28.8	29.3
5 (309)	0.1	1.2	2.9	23.7	26.1	29.3	76.5	90.4	100.0	0.0	16.6	27.3	28.3	29.6	28.2	28.6	28.9
6 (310)	0.2	1.5	4.1	22.8	26.3	30.5	66.1	84.6	100.0	0.0	18.4	26.9	28.0	29.3	28.0	28.4	28.9
7 (311)	0.2	1.5	2.7	24.1	27.0	31.0	69.0	85.7	100.0	0.2	23.7	26.9	28.6	30.5	28.1	28.6	29.3
8 (312)	0.0	0.5	1.3	23.4	24.9	26.9	90.6	97.6	100.0	27.4	7.0	26.7	28.0	29.1	28.1	28.8	29.3
9 (313)	0.0	1.0	1.8	23.3	26.2	30.0	72.9	90.1	100.0	0.2	21.1	26.3	27.6	29.2	27.5	27.9	28.5
10 (314)	0.2	1.2	2.4	24.1	26.5	30.9	72.7	91.4	100.0	2.2	18.2	27.1	28.3	29.6	28.0	28.4	28.9
11 (315)	0.1	0.8	1.7	23.0	25.9	31.3	76.0	93.2	100.0	6.2	17.2	27.4	28.4	29.6	28.2	28.6	28.9
12 (316)	0.1	1.1	2.7	24.2	27.1	31.9	64.3	89.8	100.0	0.0	22.4	27.3	28.6	30.1	28.2	28.6	29.2
13 (317)	0.0	1.0	2.4	24.2	26.9	31.3	65.2	89.0	100.0	0.0	21.4	27.6	28.8	30.2	28.5	29.0	29.3
14 (318)	0.0	0.8	2.1	23.1	26.6	32.0	62.3	88.5	100.0	0.0	22.1	27.4	28.7	30.1	28.5	29.0	29.4
15 (319)	0.1	1.1	2.8	23.2	26.7	31.8	66.0	89.3	100.0	31.0	22.0	27.5	28.8	30.4	28.6	29.0	29.5
16 (320)	0.0	0.7	2.5	23.5	26.5	31.3	67.6	90.2	100.0	0.0	15.8	27.3	28.1	29.1	28.4	28.7	29.1
17 (321)	0.0	0.7	1.7	24.1	26.7	29.9	76.3	91.3	100.0	0.0	20.9	27.5	28.6	29.9	28.4	28.7	29.2
18 (322)	0.0	0.5	1.8	24.1	25.9	30.2	77.3	95.6	100.0	6.2	11.8	27.7	28.3	28.9	28.5	28.8	29.2
19 (323)	0.0	0.3	1.0	23.1	24.8	27.9	84.4	97.5	100.0	10.0	8.1	26.6	27.4	26.0	27.8	28.2	28.8
20 (324)	0.0	0.3	1.3	22.5	26.3	31.9	70.3	90.6	100.0	0.0	18.5	26.2	27.9	30.0	27.4	27.9	28.6
21 (325)	0.1	0.9	2.6	24.3	27.0	31.1	74.5	93.0	100.0	0.0	19.6	27.0	28.8	31.3	28.0	28.5	29.3
22 (326)	0.2	1.4	3.1	24.9	27.6	31.0	69.8	86.2	100.0	0.0	22.6	27.4	29.4	31.9	28.5	29.1	29.8
23 (327)	0.2	1.0	1.7	23.3	26.5	30.8	69.9	91.5	100.0	30.4	14.4	26.9	28.7	30.2	28.5	29.1	29.7
24 (328)	0.1	0.6	1.4	23.3	25.4	30.2	78.5	95.4	100.0	34.8	13.7	25.4	27.2	29.3	27.3	27.8	28.4
25 (329)	0.0	0.7	1.7	23.2	26.3	31.6	66.5	91.4	100.0	7.4	20.3	26.2	28.1	30.8	27.5	28.1	28.9
26 (330)	0.0	0.5	1.6	23.5	26.7	31.0	71.1	89.3	100.0	0.0	19.0	26.6	28.4	30.5	28.0	28.6	29.0
27 (331)	0.1	0.7	1.5	23.9	26.4	31.0	69.0	92.3	100.0	27.8	18.4	26.9	28.6	30.8	28.1	28.8	29.6
28 (332)	0.1	1.5	4.0	23.8	26.0	29.5	75.3	92.5	100.0	0.0	17.3	26.8	28.2	30.1	28.1	28.6	29.2
29 (333)	0.7	2.5	3.9	24.1	27.0	30.2	74.0	86.6	97.5	0.0	20.3	26.5	28.2	30.3	27.9	28.4	28.9
30 (334)	1.1	2.7	4.0	24.9	27.3	30.5	71.6	84.5	93.2	0.0	19.8	26.5	28.1	30.1	27.9	28.4	28.8
	0.0	1.0	4.1	22.5	26.4	32.0	62.3	90.6	100.0	240.8	548	25.4	28.4	31.9	27.3	28.6	29.8

-99.00 indicate No data or Invalid data

KERALA FOREST RESEARCH INSTITUTE. DAILY FOREST METEOROLOGICAL DATA  
Station 1. Peechi-Vazhani WLS 1st December 1997 to 31st December 1997

Day	Wind speed			Temperature			Humidity			Rain	Solar	Soil(15cm)			Soil(30cm)		
	m/s			oC			%			mm	MJ/m2	temp oC			temp oC		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Total	Total	Min	Avg	Max	Min	Avg	Max
1 (335)	0.8	2.9	4.9	25.4	27.4	30.1	68.6	81.1	93.7	0.0	21.1	26.5	28.1	30.2	27.8	28.4	28.8
2 (336)	1.6	3.2	5.0	24.6	27.1	29.7	67.0	77.0	85.3	0.0	21.7	26.1	27.8	30.0	27.7	28.3	28.7
3 (337)	1.6	3.2	4.5	24.6	26.5	28.5	69.7	78.0	87.2	0.0	21.8	25.8	27.7	29.9	27.5	28.1	28.6
4 (338)	0.3	2.0	3.8	24.3	26.8	30.6	66.5	82.3	94.5	0.0	19.8	26.3	28.0	30.4	27.7	28.2	28.8
5 (339)	0.6	2.3	3.7	24.4	26.5	28.9	74.1	82.6	91.4	0.0	15.1	26.3	27.7	29.1	27.7	28.2	28.7
6 (340)	0.3	1.6	3.0	24.3	26.3	29.3	75.6	86.5	98.1	0.0	14.5	26.1	27.5	29.3	27.5	27.9	28.3
7 (341)	0.3	1.6	2.8	24.3	25.7	27.5	84.7	91.7	99.0	0.0	10.3	26.5	27.4	28.2	27.6	27.9	28.3
8 (342)	0.0	0.6	2.0	23.4	25.7	30.5	71.8	93.0	100.0	13.0	15.3	26.1	27.6	30.0	27.2	27.7	28.4
9 (343)	0.0	0.3	0.8	23.1	25.1	29.8	79.1	96.5	100.0	4.6	13.2	26.3	27.6	29.1	27.4	27.9	28.3
10 (344)	0.0	0.9	1.6	23.6	26.9	32.8	65.1	89.0	100.0	0.0	22.3	26.3	28.4	31.1	27.4	28.0	29.0
11 (345)	0.0	1.6	3.5	23.9	27.4	31.2	65.5	84.6	100.0	0.0	21.0	27.0	28.6	30.6	28.1	28.6	29.0
12 (346)	0.7	1.9	3.0	25.0	27.1	30.0	74.1	86.5	94.0	0.0	15.0	27.1	28.2	29.4	28.1	28.5	29.0
13 (347)	0.2	1.8	3.2	24.6	27.1	30.6	73.1	87.6	97.5	0.0	18.2	26.8	20.2	29.9	27.9	28.3	28.7
14 (348)	0.2	1.5	3.2	24.7	27.4	31.6	66.9	87.1	100.0	0.0	23.0	26.9	28.8	31.3	28.0	28.6	29.3
15 (349)	0.1	1.2	2.7	24.2	27.5	32.0	65.4	88.0	100.0	0.0	20.9	27.5	29.3	31.6	28.5	29.0	29.7
16 (350)	0.9	2.0	2.9	25.6	27.7	30.7	70.1	83.6	93.1	0.0	17.4	27.9	29.0	30.6	28.8	29.2	29.7
17 (351)	0.9	2.0	2.8	24.6	27.3	30.6	65.4	82.4	96.0	0.0	18.5	27.3	28.8	30.5	28.5	29.0	29.4
18 (352)	0.2	1.3	2.5	24.3	26.8	31.0	70.7	87.6	100.0	0.0	18.7	27.1	28.7	30.6	28.4	28.9	29.4
19 (353)	0.1	1.6	3.2	24.5	27.3	30.9	70.7	87.7	100.0	0.0	20.4	27.6	29.1	31.0	28.6	29.1	29.6
20 (354)	0.3	1.5	3.1	24.8	27.1	29.9	74.1	86.9	99.2	0.0	18.0	27.6	28.9	30.0	28.8	29.2	29.6
21 (355)	0.1	1.7	3.3	24.4	26.7	29.5	77.1	88.2	100.0	0.0	19.2	27.7	29.0	30.8	28.7	29.1	29.6
22 (356)	0.1	1.3	2.8	24.0	26.8	31.2	62.3	85.9	100.0	0.0	21.3	27.7	29.3	31.5	28.8	29.3	29.9
23 (357)	0.1	1.6	3.1	23.5	26.4	31.3	60.3	84.9	97.9	0.0	22.2	27.5	29.2	31.4	28.9	29.4	29.9
24 (358)	0.2	1.5	2.6	22.7	26.1	31.0	55.8	80.6	100.0	0.0	22.1	27.3	29.0	31.2	28.8	29.4	29.9
25 (359)	0.2	1.7	3.7	21.8	25.7	30.9	59.2	81.1	98.1	0.0	21.5	27.1	28.9	31.1	28.6	29.3	29.8
26 (360)	1.8	2.7	3.8	23.3	26.8	30.6	60.3	77.6	94.7	0.0	21.9	27.3	29.0	31.2	28.7	29.3	29.8
27 (361)	1.2	2.9	4.3	23.6	26.5	30.0	60.7	75.8	90.1	0.0	22.2	27.3	29.1	31.2	28.8	29.3	29.8
28 (362)	1.3	2.7	4.5	22.8	26.1	30.4	54.1	76.5	95.4	0.0	22.7	27.2	29.0	31.3	28.7	29.3	29.8
29 (363)	1.7	2.9	4.3	23.2	26.5	30.3	60.3	75.8	92.9	0.0	22.2	27.4	29.0	31.1	28.7	29.3	29.8
30 (364)	0.2	2.2	3.7	22.9	26.3	30.7	57.0	75.1	96.0	0.0	22.2	27.3	29.1	31.2	28.7	29.3	29.8
31 (365)	0.4	2.2	4.1	22.4	26.0	30.5	57.3	75.9	96.3	0.0	23.2	27.2	29.0	31.0	28.7	29.3	29.8
	0.0	1.9	5.0	21.8	26.7	32.8	54.1	83.8	100.0	17.6	607	25.8	28.5	31.6	27.2	28.7	29.9

-99.00 indicate No data or Invalid data.



KERALA FOREST RESEARCH INSTITUTE. DAILY FOREST METEOROLOGICAL DATA  
Station 1, Peechi-Vazhani WLS 1st January 1998 to 31st January 1998

Day	Wind speed			Temperature			Humidity			Rain mm	Solar MJ/m2	Soil(15cm) temp oC			Soil(30cm) temp oC		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max			Min	Avg	Max	Min	Avg	Max
1 ( 1)	1.0	2.3	4.1	22.9	26.6	30.5	61.6	75.2	91.1	0.0	21.6	26.9	28.9	31.0	27.3	29.1	29.7
2 ( 2)	1.7	3.2	4.6	25.2	27.3	30.1	59.2	70.2	79.2	0.0	21.0	27.8	29.0	30.4	28.9	29.3	29.7
3 ( 3)	0.6	3.3	5.2	24.0	26.8	29.8	57.9	68.3	76.0	0.0	20.4	27.0	28.6	30.4	28.5	29.0	29.5
4 ( 4)	1.8	4.0	6.7	24.6	27.3	30.5	52.9	66.5	79.1	0.0	22.1	27.2	28.8	31.0	28.5	29.0	29.5
5 ( 5)	1.0	2.8	5.1	22.5	25.6	28.9	61.0	73.7	86.4	0.0	15.6	27.1	28.1	29.3	28.4	28.8	29.5
6 ( 6)	1.0	2.9	5.2	22.9	26.2	30.4	54.1	73.1	89.5	0.0	22.5	26.2	27.9	30.2	27.6	28.1	28.7
7 ( 7)	1.5	3.3	5.3	22.7	26.1	30.2	50.4	69.9	85.8	0.0	23.2	26.5	28.3	30.4	27.8	28.4	28.9
8 ( 8)	1.5	2.6	3.7	22.1	26.1	30.8	58.7	74.7	89.9	0.0	20.8	26.7	28.6	30.8	28.0	28.6	29.2
9 ( 9)	1.6	2.9	4.4	23.6	26.5	29.6	64.3	75.1	88.1	0.0	22.6	27.2	28.9	30.8	28.4	28.9	29.3
10 ( 10)	2.0	3.1	4.4	24.1	27.2	31.0	55.8	68.7	80.0	0.0	22.1	27.2	29.0	31.0	28.5	29.0	29.5
11 ( 11)	1.6	3.5	5.8	22.7	26.2	30.4	50.2	68.5	84.7	0.0	23.9	27.2	29.0	31.1	28.5	29.1	29.6
12 ( 12)	0.1	1.9	3.8	21.2	25.4	30.9	54.1	73.4	89.8	0.0	23.4	27.0	28.9	30.9	28.5	29.0	29.6
13 ( 13)	0.1	1.3	3.3	21.5	25.1	30.9	55.3	79.9	95.1	0.0	21.8	27.0	28.8	30.6	28.4	29.0	29.5
14 ( 14)	0.1	1.6	3.8	21.5	25.8	32.5	41.1	79.7	100.0	0.0	20.4	26.9	28.7	30.5	28.4	28.9	29.3
15 ( 15)	0.0	1.1	2.4	22.1	24.6	29.1	62.4	84.3	100.0	0.0	14.8	27.1	28.2	29.2	28.3	28.7	29.3
16 ( 16)	0.0	0.9	2.0	18.3	25.2	33.5	31.2	76.9	100.0	0.0	23.6	25.7	28.0	30.5	27.5	28.2	29.0
17 ( 17)	0.0	0.7	1.5	22.3	26.1	32.0	54.1	83.5	100.0	0.0	19.1	27.2	28.9	30.9	28.4	28.8	29.4
18 ( 18)	0.0	0.7	1.5	23.2	26.9	33.4	57.2	85.1	100.0	0.0	19.4	27.7	29.4	31.5	28.7	29.2	29.9
19 ( 19)	0.0	0.9	2.0	23.3	27.1	32.7	60.7	83.3	100.0	0.0	21.1	28.1	29.9	32.0	29.1	29.7	30.3
20 ( 20)	0.1	1.0	2.3	23.2	27.2	32.7	58.4	84.4	100.0	0.0	21.1	28.4	30.3	32.4	29.5	30.0	30.6
21 ( 21)	0.1	1.6	3.9	23.3	27.0	32.4	57.9	82.3	99.3	0.0	21.8	28.6	30.4	32.5	29.7	30.3	30.8
22 ( 22)	0.1	0.7	1.5	22.9	27.0	33.0	59.3	85.0	100.0	0.0	20.6	28.7	30.6	32.7	29.8	30.4	31.0
23 ( 23)	0.1	0.9	2.5	24.1	27.4	32.5	61.1	85.9	100.0	0.0	21.0	29.1	30.9	32.9	30.1	30.6	31.2
24 ( 24)	0.2	1.7	3.5	24.6	27.7	33.1	51.6	81.8	100.0	0.0	21.3	29.4	31.0	32.7	30.3	30.8	31.2
25 ( 25)	0.1	2.1	4.1	24.4	27.6	32.5	44.0	74.3	97.8	0.0	19.3	29.0	30.5	32.0	30.1	30.6	31.2
26 ( 26)	0.2	2.0	3.8	23.7	27.0	32.4	46.4	72.6	91.1	0.0	23.3	28.5	30.4	32.6	29.8	30.4	30.9
27 ( 27)	0.1	2.4	4.2	23.1	27.5	32.9	41.4	69.1	90.9	0.0	23.5	28.7	30.5	32.6	30.0	30.5	31.0
28 ( 28)	1.5	2.8	5.0	24.5	28.1	32.9	40.7	67.2	90.1	0.0	23.7	28.9	30.7	32.9	30.0	30.6	31.1
29 ( 29)	1.3	3.1	5.0	24.3	28.1	32.9	38.2	64.5	86.4	0.0	24.4	28.8	30.7	32.7	30.1	30.6	31.1
30 ( 30)	0.7	3.1	5.3	24.1	28.2	33.3	45.3	69.5	90.8	0.0	23.7	28.9	30.8	32.9	30.1	30.7	31.1
31 ( 31)	0.4	3.0	5.1	24.9	28.6	32.9	51.3	69.4	86.2	0.0	22.8	29.1	30.9	32.8	30.3	30.8	31.2
	0.0	2.2	6.7	18.3	26.8	33.5	31.2	75.3	100.0	0.0	666	25.7	29.5	32.9	27.3	29.5	31.2

-99.00 indicate No data or Invalid data.

## KERALA FOREST RESEARCH INSTITUTE, DAILY FOREST METEOROLOGICAL DATA

Station 1, Peechi-Vazhani WLS 1st February 1998 to 28th February 1998

Day	Wind speed			Temperature			Humidity			Rain	Solar	Soil(15cm)			Soil(30cm)		
	m/s			oC			%			mm	MJ/m2	temp oC			temp oC		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Total	Total	Min	Avg	Max	Min	Avg	Max
1 ( 32)	1.9	3.9	5.4	24.7	28.6	32.4	48.0	64.4	82.0	0.0	22.0	29.2	31.0	32.8	30.3	30.8	31.2
2 ( 33)	1.4	2.8	4.7	23.7	28.0	33.0	38.5	62.1	82.2	0.0	24.1	29.0	31.0	33.3	30.2	30.8	31.3
3 ( 34)	0.5	2.3	4.3	23.2	27.5	33.1	33.7	60.1	87.2	0.0	25.0	28.7	30.4	32.0	30.1	30.7	31.3
4 ( 35)	0.1	1.7	3.6	22.4	27.2	34.0	29.1	63.7	89.5	0.0	25.3	28.0	30.1	32.4	29.8	30.4	30.9
5 ( 36)	0.0	1.5	3.2	21.9	26.5	34.0	30.4	75.7	97.6	0.0	24.6	28.2	30.3	32.7	29.8	30.4	30.9
6 ( 37)	0.0	1.1	3.2	21.7	26.2	33.2	41.6	78.8	100.0	0.0	23.4	28.5	30.5	32.6	29.9	30.5	31.0
7 ( 38)	0.1	0.6	1.5	22.3	26.5	32.7	55.8	81.4	100.0	0.0	18.4	28.7	30.3	32.0	30.0	30.5	31.0
8 ( 39)	0.0	1.2	3.6	21.5	26.7	33.3	52.1	77.8	98.1	0.0	23.3	28.2	30.5	33.1	29.6	30.3	31.0
9 ( 40)	0.3	3.2	6.2	24.0	28.2	32.9	43.7	68.0	94.3	0.0	23.9	29.1	31.0	33.0	30.1	30.7	31.2
10 ( 41)	1.9	4.3	6.3	25.7	28.8	32.4	44.1	61.2	75.8	0.0	24.4	29.4	31.2	33.2	30.3	30.8	31.3
11 ( 42)	2.2	4.1	5.7	25.0	28.5	32.6	46.4	64.9	80.1	0.0	24.2	29.4	31.4	33.5	30.5	31.0	31.5
12 ( 43)	0.9	3.4	4.9	23.9	27.7	32.2	47.4	63.9	76.4	0.0	23.0	29.4	31.3	34.0	30.5	31.1	31.5
13 ( 44)	0.2	2.2	4.3	23.1	27.4	32.9	43.3	64.9	86.2	0.0	24.2	27.3	29.3	31.0	29.6	30.3	31.4
14 ( 45)	0.0	1.5	3.5	23.7	27.4	33.3	44.1	71.4	96.8	0.0	22.7	27.4	29.4	31.5	29.4	30.1	30.7
15 ( 46)	0.1	0.8	2.2	23.9	27.6	34.0	46.4	76.8	98.1	0.0	24.6	28.0	30.0	32.6	29.7	30.4	31.2
16 ( 47)	0.0	0.6	1.5	22.1	26.9	33.6	52.6	78.9	100.0	0.0	23.2	28.0	30.2	32.7	29.9	30.6	31.3
17 ( 48)	0.0	0.6	1.6	22.6	27.0	33.7	55.8	81.7	100.0	0.0	21.1	28.4	30.4	32.7	30.1	30.8	31.3
18 ( 49)	0.0	0.5	1.1	23.8	27.0	31.2	59.4	83.6	100.0	0.0	16.7	28.9	30.3	31.8	30.3	30.8	31.3
19 ( 50)	0.0	0.6	1.6	23.8	27.3	33.2	55.3	79.8	99.4	0.0	24.6	28.6	30.8	33.8	30.0	30.7	31.7
20 ( 51)	0.0	0.6	1.6	22.6	27.3	34.6	53.8	81.3	100.0	0.0	24.9	28.9	31.5	34.5	30.5	31.3	32.2
21 ( 52)	0.0	0.5	1.1	25.1	27.9	32.5	60.1	80.3	93.0	0.0	17.4	30.5	31.9	33.6	31.3	31.8	32.2
22 ( 53)	0.0	0.6	1.7	22.6	27.0	33.5	52.9	80.2	100.0	0.0	24.8	29.3	31.8	34.8	30.8	31.6	32.4
23 ( 54)	0.1	0.7	1.7	21.9	26.8	32.9	60.1	82.4	98.9	0.0	21.3	29.8	31.8	33.8	31.2	31.8	32.4
24 ( 55)	0.0	0.5	1.1	25.2	28.2	33.9	59.5	81.9	94.9	0.0	19.6	30.2	31.9	34.1	31.2	31.7	32.3
25 ( 56)	0.0	0.7	1.5	25.0	28.5	34.6	56.5	83.9	100.0	0.0	21.4	30.3	32.4	34.8	31.4	31.9	32.7
26 ( 57)	0.0	0.5	1.7	25.0	28.7	34.4	56.5	81.4	100.0	0.0	22.1	30.8	32.8	35.0	31.8	32.3	32.9
27 ( 58)	0.0	0.5	1.2	25.0	28.8	34.5	54.6	80.2	100.0	0.0	22.7	30.9	32.9	35.2	31.9	32.5	33.1
28 ( 59)	0.0	0.6	1.5	23.3	28.2	35.1	49.3	80.3	98.3	0.0	24.0	30.6	33.1	35.8	31.9	32.6	33.3
	0.0	1.5	6.3	21.5	27.6	35.1	29.1	74.7	100.0	0.0	637	27.3	31.1	35.8	29.4	31.0	33.3

-99.00 indicate No data or Invalid data.

KERALA FOREST RESEARCH INSTITUTE, DAILY FOREST METEOROLOGICAL DATA  
Station 1, Peechi-Vazhani WLS 1st March 1998 to 31st March 1998

Day	Wind speed			Temperature			Humidity			Rain mm	Solar MJ/m2	Soil(15cm)			Soil(30cm)		
	m/s			oC		%		temp oC				temp oC					
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Total	Total	Min	Avg	Max	Min	Avg	Max
1 ( 60)	0.0	0.7	1.9	23.0	28.1	36.0	48.0	82.4	100.0	0.0	24.0	31.0	33.5	36.3	32.2	32.9	33.7
2 ( 61)	0.0	0.8	1.8	24.2	28.3	34.8	55.4	84.3	100.0	0.0	21.1	31.5	33.5	35.4	32.6	33.1	33.7
3 ( 62)	0.0	1.3	3.0	25.1	28.6	34.8	34.4	78.7	99.3	0.0	24.8	31.4	33.6	36.1	32.4	33.1	33.7
4 ( 63)	0.2	1.9	4.3	24.8	28.7	35.7	29.3	73.8	100.0	0.0	26.1	31.5	33.8	36.2	32.6	33.3	33.8
5 ( 64)	0.0	1.7	3.7	24.7	28.6	35.4	30.8	72.1	98.5	0.0	26.7	31.6	34.0	36.5	32.7	33.4	34.0
6 ( 65)	0.0	0.8	1.6	24.3	28.4	34.1	55.3	81.6	100.0	0.0	23.3	31.9	34.0	36.2	32.9	33.5	34.0
7 ( 66)	0.0	0.6	2.0	23.3	28.2	36.1	39.6	80.2	100.0	0.0	25.3	31.4	33.9	36.6	32.7	33.4	33.9
8 ( 67)	0.1	0.6	1.7	24.2	28.1	33.8	51.6	78.5	99.6	0.0	23.5	31.8	34.0	36.4	32.8	33.4	34.0
9 ( 68)	0.0	0.6	1.8	22.8	28.2	36.2	33.1	71.9	100.0	0.0	25.5	31.4	33.9	36.4	32.7	33.3	33.9
10 ( 69)	0.1	0.8	1.9	22.6	28.1	36.2	43.4	77.0	98.3	0.0	24.7	31.4	33.9	36.4	32.7	33.3	33.9
11 ( 70)	0.0	0.5	1.3	24.2	28.4	33.8	59.0	79.6	99.2	0.0	20.3	31.9	33.8	35.4	32.8	33.3	33.9
12 ( 71)	0.0	0.6	1.7	23.6	28.7	35.9	45.3	78.1	100.0	0.0	24.2	31.4	33.7	36.3	32.5	33.1	33.7
13 ( 72)	0.0	0.5	1.3	23.2	28.2	34.1	49.5	79.6	100.0	0.0	23.4	31.6	34.0	36.3	32.7	33.3	33.8
14 ( 73)	0.0	0.6	2.1	22.9	27.9	33.3	60.6	82.0	100.0	0.0	23.8	31.7	33.9	36.0	32.8	33.4	33.9
15 ( 74)	0.2	0.8	1.6	23.6	28.4	35.3	43.1	76.4	95.7	0.0	25.6	31.5	34.1	36.8	32.7	33.3	34.0
16 ( 75)	0.1	2.0	4.4	24.6	29.0	34.4	34.7	70.3	97.8	0.0	25.6	32.1	34.5	36.9	33.0	33.6	34.2
17 ( 76)	0.2	2.1	4.6	24.7	29.1	35.0	38.9	64.1	85.8	0.0	26.8	32.0	34.5	37.2	33.0	33.7	34.2
18 ( 77)	0.2	1.7	4.0	24.9	29.0	35.8	29.7	67.1	95.7	0.0	26.7	32.3	34.8	37.4	33.1	33.8	34.4
19 ( 78)	0.2	1.8	3.7	24.7	28.8	36.6	25.9	70.6	93.7	0.0	26.6	32.3	34.8	37.3	33.2	33.9	34.4
20 ( 79)	0.0	1.6	4.1	24.6	29.2	37.6	24.4	70.9	97.5	0.0	26.4	32.4	35.1	37.8	33.3	33.9	34.5
21 ( 80)	0.0	1.3	3.2	24.3	29.0	37.3	23.2	76.8	100.0	0.0	26.0	32.7	35.3	38.1	33.4	34.1	34.7
22 ( 81)	0.0	0.9	2.0	25.6	29.5	36.2	43.8	82.1	99.8	0.0	24.8	33.2	35.8	38.5	33.7	34.4	35.0
23 ( 82)	0.0	0.7	1.9	23.9	29.2	37.0	47.5	81.7	100.0	0.0	24.9	33.3	35.9	38.7	33.9	34.6	35.2
24 ( 83)	0.0	0.7	1.5	24.6	29.2	34.8	58.6	81.5	100.0	0.0	22.7	33.5	35.8	37.9	34.0	34.6	35.2
25 ( 84)	0.0	0.5	1.4	25.4	29.1	33.9	65.7	84.6	100.0	0.0	19.5	33.3	35.1	36.8	33.8	34.4	35.0
26 ( 85)	0.0	0.6	1.7	24.5	29.3	35.3	59.4	82.8	100.0	0.0	22.7	32.7	34.9	37.4	33.5	34.0	34.5
27 ( 86)	0.0	1.1	2.2	25.8	30.0	36.1	50.8	82.2	100.0	0.0	22.9	33.2	35.5	38.0	33.7	34.2	34.8
28 ( 87)	0.0	1.2	2.9	23.0	29.1	36.8	37.1	81.1	100.0	4.8	23.6	32.7	34.6	36.3	33.5	34.2	34.9
29 ( 88)	0.0	0.8	1.9	25.1	29.4	34.8	51.3	84.4	100.0	22.4	23.0	29.5	32.5	34.1	32.0	32.9	34.0
30 ( 89)	0.0	0.6	1.3	25.4	29.6	35.4	55.3	83.5	100.0	0.0	21.1	30.6	32.2	33.9	31.9	32.4	33.0
31 ( 90)	0.0	0.7	1.9	26.3	29.9	35.6	60.5	84.2	100.0	0.4	21.8	30.6	32.3	34.3	31.8	32.3	32.8
	0.0	1.0	4.6	22.6	28.8	37.6	23.2	78.2	100.0	27.6	748	29.5	34.2	38.7	31.8	33.6	35.2

-99.00 indicate No data or Invalid data.

## KERALA FOREST RESEARCH INSTITUTE. DAILY FOREST METEOROLOGICAL DATA

Station 1. Peechi-Vazhani WLS 1st April 1998 to 30th April 1998

Day	Wind speed			Temperature			Humidity			Rain mm	Solar MJ/m2	Soi 1(15cm) temp oC			Soi 1(30cm) temp oC		
	m/s			oc			%										
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Total	Total	Min	Avg	Max	Min	Avg	Max
1 ( 91)	0.0	0.8	2.0	24.2	29.3	35.9	57.0	85.5	100.0	3.8	21.1	30.8	32.4	34.4	31.9	32.4	32.9
2 ( 92)	0.1	0.8	2.3	24.9	28.9	34.4	62.1	86.6	100.0	0.2	20.0	30.2	31.9	33.7	31.5	32.1	32.8
3 ( 93)	0.0	0.6	1.4	25.8	29.1	34.0	68.0	87.9	100.0	0.2	19.5	30.3	31.8	33.6	31.4	31.9	32.4
4 ( 94)	0.0	1.3	3.8	25.5	29.8	37.8	28.5	81.0	100.0	0.0	24.9	30.2	32.2	34.8	31.4	32.0	32.7
5 ( 95)	0.0	2.1	4.8	25.6	30.1	37.3	32.7	74.7	100.0	0.0	27.2	30.3	32.7	35.4	31.7	32.3	33.1
6 ( 96)	0.0	1.7	4.6	26.4	30.1	38.4	29.9	76.6	100.0	0.0	23.8	30.8	33.4	36.3	32.0	32.9	33.7
7 ( 97)	0.0	1.0	1.9	25.7	30.5	37.9	37.2	78.6	97.5	0.0	24.3	31.5	33.7	36.2	32.6	33.2	34.0
8 ( 98)	0.0	0.6	1.6	25.9	29.8	35.4	59.4	84.2	100.0	0.0	21.0	32.0	33.9	36.0	32.9	33.5	34.0
9 ( 99)	0.0	0.6	1.8	25.7	30.1	36.4	45.5	83.4	100.0	0.0	21.2	31.9	33.9	36.1	32.9	33.5	34.0
10 (100)	0.0	0.6	1.6	26.4	30.0	34.4	64.9	85.1	100.0	0.0	17.9	32.2	33.8	35.3	33.0	33.5	34.0
11 (101)	0.0	0.7	2.0	25.9	30.4	36.2	54.4	83.0	100.0	0.0	22.0	31.9	34.0	36.2	32.8	33.5	34.1
12 (102)	0.0	0.7	1.8	26.5	30.4	34.7	66.0	84.8	100.0	0.0	21.3	32.4	34.4	36.4	33.2	33.8	34.3
13 (103)	0.0	0.8	2.0	26.2	30.1	36.2	61.1	83.1	100.0	0.0	24.5	32.7	35.0	37.5	33.4	34.1	34.9
14 (104)	0.0	0.7	1.8	24.8	30.3	36.6	57.2	81.3	100.0	0.0	22.0	32.7	34.8	36.9	33.6	34.2	34.8
15 (105)	0.0	0.7	2.0	26.9	30.8	35.7	59.5	82.9	100.0	0.0	21.8	33.2	35.1	37.3	33.8	34.4	34.9
16 (106)	0.0	0.8	1.9	27.0	29.9	34.9	65.6	87.6	100.0	0.2	20.5	33.2	35.0	37.2	33.8	34.4	34.9
17 (107)	0.0	0.7	1.8	26.3	29.9	35.2	59.8	84.1	100.0	0.0	20.9	33.1	35.0	37.0	33.8	34.3	34.8
18 (108)	0.0	0.5	1.5	25.2	30.1	36.0	59.2	82.3	100.0	0.0	22.8	32.8	35.1	37.6	33.6	34.3	35.0
19 (109)	0.0	0.7	1.8	27.1	30.7	35.8	59.8	81.7	97.0	0.0	22.7	33.5	35.5	37.7	34.0	34.6	35.2
20 (110)	0.0	0.7	1.7	27.3	31.0	37.0	57.9	81.6	97.9	0.0	23.9	33.8	35.9	38.4	34.3	34.9	35.6
21 (111)	0.0	0.7	1.8	28.2	31.3	36.1	62.6	81.7	95.7	0.0	19.2	34.3	35.9	37.6	34.7	35.1	35.6
22 (112)	0.0	0.7	1.8	28.0	30.8	35.1	67.0	84.8	98.5	0.0	19.3	34.0	35.6	37.3	34.5	35.0	35.5
23 (113)	0.1	0.8	1.9	24.7	30.1	35.4	65.8	85.1	100.0	1.2	20.0	33.8	35.4	37.3	34.4	34.9	35.3
24 (114)	0.0	0.7	1.5	25.0	30.1	36.7	53.9	81.6	100.0	0.0	24.5	32.8	34.9	37.2	33.8	34.5	35.2
25 (115)	0.0	0.8	2.7	22.2	30.0	37.1	56.0	83.0	100.0	12.2	23.4	33.1	35.2	37.7	34.0	34.6	35.1
26 (116)	0.1	1.0	2.0	22.8	28.6	35.9	56.5	84.6	100.0	0.0	20.1	29.7	32.4	35.5	32.6	33.4	34.9
27 (117)	0.0	0.8	2.0	25.2	30.1	35.5	59.5	84.0	100.0	0.2	23.8	29.8	32.8	36.5	31.9	32.7	33.4
28 (118)	0.1	0.8	2.2	25.1	29.0	34.3	66.5	86.9	100.0	0.2	18.2	30.0	32.3	35.3	31.9	32.6	33.2
29 (119)	0.0	0.7	1.7	25.6	29.8	34.9	64.8	85.4	100.0	0.0	20.4	30.2	32.6	35.9	31.8	32.5	33.3
30 (120)	0.0	0.8	1.8	26.6	30.3	35.7	63.5	80.9	100.0	0.0	24.3	30.8	33.7	37.3	32.2	33.0	34.0
	0.0	0.8	4.8	22.2	30.0	38.4	28.5	83.1	100.0	18.2	657	29.7	34.0	38.4	31.4	33.6	35.6

-99.00 indicate No data or Invalid data.

## KERALA FOREST RESEARCH INSTITUTE, DAILY FOREST METEOROLOGICAL DATA

Station 1. Peechi-Vazhani WLS 1st May 1998 to 31st May 1998

Day	Wind speed			Temperature			Humidity			Rain mm	Solar MJ/m2	Soil(15cm)			Soil(30cm)		
	m/s			oc			%					temp oC			temp oC		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Total	Total	Min	Avg	Max	Min	Avg	Max
1 (121)	0.1	0.8	2.5	23.4	29.3	35.4	65.4	85.1	100.0	7.0	20.6	31.3	33.5	36.7	32.7	33.4	34.1
2 (122)	0.1	0.7	1.3	24.4	29.6	35.4	66.9	86.7	100.0	0.2	20.7	29.8	32.1	34.8	32.0	32.7	33.7
3 (123)	0.1	0.8	1.6	26.6	30.5	36.0	59.8	84.4	100.0	0.0	20.5	30.3	31.9	34.0	31.8	32.3	32.8
4 (124)	0.1	0.9	1.8	25.6	30.1	35.3	64.2	81.9	99.5	0.0	22.7	29.8	31.6	33.8	31.5	32.1	32.6
5 (125)	0.0	0.7	1.8	25.8	30.3	35.2	65.4	84.8	100.0	0.0	17.9	30.0	31.6	33.1	31.6	32.1	32.5
6 (126)	0.0	0.6	2.1	27.4	30.7	36.5	62.7	86.9	100.0	0.0	18.3	30.4	31.9	33.8	31.7	32.2	32.7
7 (127)	0.0	0.9	2.5	26.8	31.1	36.6	44.7	82.7	100.0	0.0	23.0	30.5	32.6	35.1	31.8	32.5	33.4
8 (128)	0.0	0.9	2.2	27.0	30.6	36.5	47.7	83.4	100.0	0.0	21.7	31.3	33.2	35.3	32.5	33.2	33.8
9 (129)	0.1	0.6	2.0	25.4	28.7	36.0	60.1	92.2	100.0	31.6	14.0	29.4	31.3	33.5	30.8	32.4	33.6
10 (130)	0.0	0.4	1.2	25.1	28.7	34.8	66.7	90.3	100.0	0.0	18.7	28.8	30.4	32.6	30.7	31.2	31.7
11 (131)	0.0	0.8	2.1	24.8	28.3	34.4	65.8	90.7	100.0	1.0	16.5	29.4	30.3	31.8	30.8	31.1	31.5
12 (132)	0.0	0.7	1.7	24.7	29.1	34.3	66.6	87.9	100.0	0.2	20.1	28.3	30.0	31.6	30.1	30.6	31.0
13 (133)	0.0	0.7	1.7	23.6	27.4	34.6	66.2	92.7	100.0	12.4	18.4	28.5	29.8	31.6	29.9	30.5	31.0
14 (134)	0.2	1.3	3.2	23.8	27.7	33.1	66.6	89.0	100.0	20.4	14.5	27.0	28.5	30.0	28.7	29.6	30.3
15 (135)	0.0	0.6	1.5	23.0	25.9	30.7	84.4	97.1	100.0	27.8	11.2	26.5	27.7	29.1	28.1	28.7	29.1
16 (136)	0.0	0.2	0.7	23.5	25.6	29.1	86.8	97.2	100.0	2.2	10.1	26.4	26.9	27.6	28.0	28.1	28.3
17 (137)	0.0	0.5	1.6	24.0	28.2	33.6	66.9	89.3	100.0	0.0	19.8	26.7	27.5	28.6	27.9	28.2	28.8
18 (138)	0.0	0.7	1.8	26.6	29.5	33.3	75.1	90.6	100.0	0.0	18.9	27.8	28.4	29.3	28.6	28.9	29.3
19 (139)	0.0	0.6	1.1	26.2	29.4	34.1	68.3	89.6	100.0	0.2	18.9	28.1	28.8	29.6	29.1	29.3	29.6
20 (140)	0.0	0.6	1.4	26.3	29.3	33.2	73.4	90.8	100.0	0.2	18.0	28.4	28.9	29.5	29.3	29.5	29.7
21 (141)	0.0	0.5	1.4	26.5	29.8	34.2	67.1	88.0	100.0	0.0	22.6	28.5	29.1	30.0	29.4	29.6	30.0
22 (142)	0.0	0.6	1.4	26.5	29.3	33.3	74.3	90.8	100.0	0.0	20.3	28.6	29.2	29.8	29.6	29.8	30.0
23 (143)	0.0	0.5	1.2	25.9	29.7	34.5	67.2	88.0	100.0	0.0	22.6	28.5	29.2	30.0	29.6	29.8	30.1
24 (144)	0.0	0.7	1.6	26.1	29.4	33.8	70.1	90.8	100.0	0.0	18.3	28.7	29.3	30.0	29.7	29.9	30.1
25 (145)	0.0	0.8	1.8	26.3	29.7	33.6	70.6	89.1	100.0	0.0	19.4	28.7	29.3	29.9	29.8	30.0	30.2
26 (146)	0.2	0.9	1.9	26.7	29.3	32.7	77.1	91.2	100.0	0.0	16.0	28.7	29.2	29.7	29.8	30.0	30.2
27 (147)	0.0	0.6	1.3	25.6	29.6	34.6	66.9	86.9	100.0	0.0	21.6	28.4	29.2	30.0	29.6	29.9	30.1
28 (148)	0.0	0.5	1.3	26.3	30.1	35.2	64.0	87.8	100.0	2.2	23.3	28.8	29.5	30.5	29.8	30.1	30.4
29 (149)	0.0	0.5	1.0	25.9	30.2	35.2	63.6	86.3	100.0	2.4	23.0	29.0	29.7	30.5	30.0	30.2	30.5
30 (150)	0.0	0.6	1.6	26.4	30.2	34.8	62.8	84.1	100.0	0.0	24.9	29.0	29.6	30.5	30.0	30.3	30.6
31 (151)	0.0	0.5	1.3	27.1	30.7	35.6	63.9	86.1	100.0	0.0	23.0	29.1	29.8	30.7	30.1	30.4	30.8
	0.0	0.7	3.2	23.0	29.3	36.6	44.7	88.5	100.0	107.8	599	26.4	30.0	36.7	27.9	30.6	34.1

-99.00 indicate No data or Invalid data.

KERALA FOREST RESEARCH INSTITUTE, DAILY FOREST METEOROLOGICAL DATA  
Station 1, Peechi-Vazhani WLS 1st June 1998 to 30th June 1998

Day	Wind speed			Temperature			Humidity			Rain mm	Solar MJ/m2	Soil(15cm)			Soil(30cm)		
	m/s			oc			%					temp oC			temp oC		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Total	Total	Min	Avg	Max	Min	Avg	Max
1 (152)	0.0	0.7	1.5	23.6	29.5	35.0	69.5	90.6	100.0	6.0	16.6	29.4	29.9	30.5	30.4	30.6	30.8
2 (153)	0.0	0.8	1.7	23.5	27.4	32.3	79.2	92.6	100.0	1.6	16.6	28.2	28.7	29.2	29.7	30.0	30.6
3 (154)	0.0	0.8	1.8	24.9	27.7	31.8	76.3	91.9	100.0	0.2	15.7	28.0	28.4	28.7	29.2	29.4	29.8
4 (155)	0.0	0.9	1.7	25.6	28.0	31.8	71.5	92.3	100.0	8.8	16.9	27.7	28.2	28.8	28.9	29.1	29.4
5 (156)	0.1	0.8	1.9	25.2	28.4	32.6	71.2	89.8	100.0	0.4	20.6	27.8	28.3	29.0	28.9	29.0	29.3
6 (157)	0.1	1.0	2.3	23.6	28.2	32.7	69.7	88.1	100.0	2.8	22.5	27.6	28.2	28.7	28.9	29.1	29.3
7 (158)	0.1	0.5	1.0	23.1	26.5	30.7	77.6	94.8	100.0	49.0	12.1	25.8	26.7	28.3	26.3	27.6	29.2
8 (159)	0.0	0.7	1.6	24.8	28.6	33.0	72.4	89.8	100.0	0.0	23.0	27.0	27.8	28.8	28.1	28.3	28.9
9 (160)	0.1	0.6	1.3	25.1	28.2	32.5	75.0	91.8	100.0	3.6	21.0	27.7	28.3	29.1	28.7	28.5	29.2
10 (161)	0.1	0.4	0.9	24.4	26.3	28.9	93.7	98.6	100.0	22.8	12.5	27.7	28.0	28.5	28.6	28.8	29.2
11 (162)	0.1	0.5	1.4	23.6	25.3	29.5	88.9	98.9	100.0	32.0	11.3	26.4	26.9	27.8	27.3	27.8	28.7
12 (163)	0.0	0.4	1.5	24.0	25.8	30.3	86.5	97.2	100.0	2.8	13.9	26.7	27.1	27.6	27.7	27.9	28.0
13 (164)	0.0	0.4	1.2	23.9	26.2	30.5	83.2	97.1	100.0	1.8	13.0	26.6	27.1	27.5	27.7	27.9	28.0
14 (165)	0.0	0.4	1.1	24.8	26.3	29.5	88.2	97.4	100.0	3.4	10.7	27.0	27.2	27.5	27.8	27.9	28.0
15 (166)	0.0	0.6	1.7	23.9	26.1	30.2	85.9	97.6	100.0	17.0	13.8	26.8	27.2	27.6	27.7	27.9	28.0
16 (167)	0.0	0.8	2.1	23.7	26.4	30.8	81.6	95.1	100.0	32.6	16.4	26.4	26.9	27.5	27.2	27.5	27.9
17 (168)	0.0	1.0	2.2	22.8	24.2	26.9	96.2	99.8	100.0	75.8	9.2	24.4	25.9	26.7	24.7	26.7	27.5
18 (169)	0.0	0.7	1.9	22.7	25.5	30.7	76.6	95.6	100.0	8.6	15.3	24.5	25.3	26.1	25.2	25.9	26.5
19 (170)	0.0	0.7	1.8	23.0	25.5	30.1	81.4	96.3	100.0	20.4	17.3	25.3	25.9	26.4	26.3	26.5	26.8
20 (171)	0.1	0.5	1.3	23.1	25.4	28.8	90.6	98.1	100.0	19.6	10.6	25.6	25.9	26.3	26.5	26.5	26.9
21 (172)	0.1	0.8	1.5	24.3	26.3	29.2	90.5	99.0	100.0	7.0	13.2	26.0	26.4	26.8	26.7	26.9	27.1
22 (173)	0.1	0.9	2.2	24.1	26.0	29.1	92.5	98.8	100.0	78.4	11.9	25.4	25.9	26.5	25.7	26.3	27.0
23 (174)	0.0	0.5	1.2	22.8	24.3	27.7	94.2	99.4	100.0	40.4	9.2	25.3	25.7	26.1	26.2	26.4	26.5
24 (175)	0.0	0.4	1.3	22.6	24.7	28.5	86.1	97.3	100.0	26.0	12.8	24.9	25.5	26.4	25.5	26.1	26.5
25 (176)	0.0	0.8	1.8	23.1	24.1	26.3	98.7	99.9	100.0	71.4	5.8	24.9	25.4	25.8	25.7	26.0	26.4
26 (177)	0.1	0.7	1.3	23.4	24.8	27.4	95.7	99.6	100.0	37.2	6.9	24.8	25.2	25.7	25.4	25.7	25.5
27 (178)	0.7	1.4	1.9	23.4	24.5	26.7	98.7	99.9	100.0	75.6	6.4	24.9	25.3	25.6	25.6	25.8	25.9
28 (179)	0.4	1.2	2.3	23.7	24.5	27.3	96.9	99.8	100.0	35.2	6.8	24.7	25.1	25.5	25.5	25.6	25.7
29 (180)	0.4	1.2	1.9	23.3	24.3	26.0	99.4	100.0	100.0	77.2	4.9	24.6	24.9	25.2	25.2	25.4	25.7
30 (181)	0.5	1.7	2.8	23.4	25.8	28.9	90.5	98.7	100.0	34.6	10.2	24.3	25.0	25.8	24.9	25.3	25.8
	0.0	0.8	2.8	22.6	26.2	35.0	69.5	96.2	100.0	792.2	397	24.3	26.7	30.5	24.7	27.4	30.8

-99.00 indicate No data or Invalid data.

KERALA FOREST RESEARCH INSTITUTE, DAILY FOREST METEOROLOGICAL DATA

Station 1, Peechi-Vazhani WLS 1st July 1998 to 31st July 1998

Day	Wind speed			Temperature			Humidity			Rain mm	Solar MJ/m2	Soil(15cm)			Soil(30cm)		
	m/s			oC			%					temp oC			temp oC		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Total	Total	Min	Avg	Max	Min	Avg	Max
1 (182)	0.1	0.9	1.8	22.0	23.8	27.7	96.7	99.7	100.0	70.6	7.4	24.5	25.2	25.9	25.4	25.6	25.9
2 (183)	0.2	0.9	1.8	22.5	25.0	29.1	90.5	98.6	100.0	19.8	12.0	24.1	25.0	26.1	25.0	25.3	25.9
3 (184)	0.3	1.0	2.5	23.0	24.5	27.0	96.2	99.8	100.0	71.2	9.1	23.8	24.9	25.6	24.0	25.1	25.9
4 (185)	0.1	0.8	1.8	23.0	24.7	28.7	87.6	98.6	100.0	41.2	11.5	24.1	25.1	26.0	24.7	25.3	25.8
5 (186)	0.0	0.5	1.5	23.6	25.8	29.8	82.2	96.4	100.0	9.4	16.8	25.1	25.9	27.0	25.7	25.9	26.5
6 (187)	0.1	0.6	1.4	23.1	25.6	28.6	90.3	96.9	100.0	4.6	14.9	25.4	26.2	26.9	26.1	26.4	26.7
7 (188)	0.0	0.6	1.4	23.2	26.0	30.2	80.5	95.3	100.0	7.6	19.4	25.6	26.5	27.5	26.3	26.6	27.0
8 (189)	0.0	0.6	1.5	23.4	25.6	29.1	87.0	97.1	100.0	10.2	16.5	25.8	26.6	27.4	26.5	26.8	27.1
9 (190)	0.0	0.5	1.4	23.4	24.3	28.1	94.5	99.7	100.0	15.2	8.6	25.8	26.3	26.7	26.5	26.8	27.1
10 (191)	0.1	0.6	1.3	23.2	25.0	28.1	96.3	99.4	100.0	44.6	10.5	25.0	25.9	26.9	26.0	26.4	26.7
11 (192)	0.1	0.6	1.3	24.1	25.3	27.9	98.6	99.9	100.0	43.4	9.2	25.4	26.1	26.9	26.0	26.3	26.7
12 (193)	0.1	0.4	0.8	24.7	25.8	27.9	93.3	99.1	100.0	17.8	9.0	25.9	26.4	27.1	26.4	26.6	26.9
13 (194)	0.1	0.4	1.0	23.9	25.4	28.5	87.6	98.7	100.0	34.0	7.1	25.4	26.0	26.5	26.2	26.5	26.9
14 (195)	0.0	0.8	1.6	23.5	27.0	30.9	83.8	95.4	100.0	11.8	19.4	25.9	26.7	27.9	26.5	26.7	27.4
15 (196)	0.0	0.7	1.6	23.0	26.3	31.4	73.1	93.6	100.0	0.4	21.9	26.1	27.0	28.1	26.8	27.2	27.6
16 (197)	0.0	0.6	1.6	23.8	26.6	31.3	78.2	95.0	100.0	105.0	17.9	25.3	27.1	28.1	25.9	27.4	27.9
17 (198)	0.0	0.5	1.0	23.9	25.6	27.9	93.2	99.4	100.0	22.6	12.6	24.8	26.0	27.2	25.4	26.4	27.2
18 (199)	0.0	0.6	1.6	23.3	26.1	29.9	82.9	94.4	100.0	1.8	19.3	26.0	26.8	27.8	26.9	27.2	27.5
19 (200)	0.0	0.6	1.4	22.7	24.1	26.3	98.4	99.9	100.0	33.2	6.4	25.7	26.2	27.1	26.8	27.0	27.5
20 (201)	0.1	0.7	1.3	22.5	24.2	26.8	96.1	99.5	100.0	24.0	10.4	25.2	25.8	26.5	26.3	26.5	26.8
21 (202)	0.0	0.5	1.3	23.1	25.8	29.3	84.7	95.8	100.0	6.4	16.7	25.3	26.1	27.1	26.2	26.5	26.9
22 (203)	0.0	0.5	1.5	23.7	25.9	29.4	85.9	97.5	100.0	1.0	14.4	25.9	26.6	27.4	26.6	26.8	27.2
23 (204)	0.0	0.6	1.6	22.9	25.2	29.0	86.2	97.1	100.0	53.8	14.1	24.0	25.7	26.8	24.8	26.0	27.2
24 (205)	0.0	0.9	1.7	22.2	25.4	29.3	84.1	95.4	100.0	14.8	16.2	25.2	26.0	26.9	26.2	26.5	26.9
25 (206)	0.1	0.8	2.0	22.4	24.4	29.0	85.2	97.5	100.0	51.6	15.0	24.7	25.5	26.6	25.8	26.2	26.9
26 (207)	0.1	0.9	2.1	22.8	24.9	28.1	90.5	98.8	100.0	4.0	14.7	24.8	25.5	26.6	25.9	26.1	26.5
27 (208)	0.0	0.5	0.9	23.8	25.3	27.9	93.5	99.5	100.0	15.4	9.7	25.6	26.2	26.8	26.3	26.5	26.7
28 (209)	0.0	1.0	1.8	24.0	25.6	27.7	95.6	99.4	100.0	17.2	8.4	25.5	26.1	26.5	26.3	26.5	26.8
29 (210)	0.8	1.4	2.0	24.5	26.4	28.9	88.0	97.8	100.0	17.8	14.0	25.8	26.4	27.2	26.4	26.6	27.0
30 (211)	0.5	1.1	1.8	24.2	26.2	28.9	88.8	97.2	100.0	11.2	15.8	25.9	26.6	27.4	26.6	26.8	27.1
31 (212)	0.4	0.8	1.5	24.9	26.9	30.0	86.7	96.5	100.0	11.2	17.0	26.3	27.0	28.0	26.8	27.1	27.6
	0.0	0.7	2.5	22.0	25.5	31.4	73.1	97.7	100.0	792.8	416	23.8	26.1	28.1	24.0	26.4	27.9

-99.00 indicate No data or Invalid data.

KERALA FOREST RESEARCH INSTITUTE. DAILY FOREST METEOROLOGICAL DATA  
 Station 1, Peechi-Vazhani WLS 1st August 1998 to 31st August 1998

Day	Wind speed			Temperature			Humidity			Rain	Solar	Soil(15cm)			Soil(30cm)		
	m/s			oc			%			mm	MJ/m2	temp oC			temp oC		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Total	Total	Min	Avg	Max	Min	Avg	Max
1 (213)	0.0	0.4	1.2	24.4	26.3	29.9	86.7	97.5	100.0	4.6	12.5	26.7	27.3	27.9	27.3	27.5	27.7
2 (214)	0.0	0.5	1.5	24.7	26.3	28.6	93.8	98.8	100.0	12.0	11.1	26.7	27.1	27.5	27.3	27.5	27.7
3 (215)	0.0	0.6	2.0	24.5	26.8	31.4	80.6	95.8	100.0	0.4	18.4	26.5	27.3	28.2	27.2	27.5	27.9
4 (216)	0.1	0.6	1.4	23.3	26.0	29.3	90.1	97.3	100.0	34.4	15.2	25.9	26.8	27.6	27.0	27.3	27.9
5 (217)	0.1	0.7	1.5	23.6	25.2	27.7	93.9	99.1	100.0	35.8	10.5	25.7	26.4	27.2	26.8	27.1	27.6
6 (218)	0.0	0.4	0.8	23.4	25.4	28.4	90.5	97.9	100.0	2.6	10.3	26.0	26.5	27.0	26.8	27.0	27.2
7 (219)	0.1	0.7	1.7	23.6	25.4	27.9	94.2	99.1	100.0	5.8	13.0	26.0	26.6	27.1	26.8	27.0	27.2
8 (220)	0.0	0.6	1.3	23.4	24.9	27.5	96.0	99.7	100.0	24.8	9.4	26.0	26.4	26.8	26.8	27.0	27.2
9 (221)	0.0	0.5	1.2	23.8	25.6	28.5	92.7	98.7	100.0	15.8	12.2	25.9	26.5	27.2	26.6	26.9	27.2
10 (222)	0.1	1.0	2.1	23.7	25.9	28.5	92.3	98.2	100.0	10.0	13.4	26.2	26.7	27.3	26.9	27.1	27.3
11 (223)	0.1	0.8	1.9	23.7	25.9	29.2	88.8	97.8	100.0	26.6	14.8	26.3	26.9	27.5	27.0	27.2	27.5
12 (224)	0.0	0.6	1.0	23.3	26.2	29.6	86.0	96.8	100.0	25.8	17.4	25.7	26.6	27.6	26.7	27.0	27.5
13 (225)	0.0	0.4	1.0	24.7	26.6	30.3	82.0	96.3	100.0	3.2	16.9	26.7	27.3	28.1	27.3	27.5	27.8
14 (226)	0.0	0.3	0.8	24.6	26.9	31.0	79.2	94.6	100.0	0.0	16.7	26.9	27.5	28.4	27.5	27.7	28.1
15 (227)	0.0	0.3	0.8	24.8	26.8	30.3	85.3	95.9	100.0	0.2	12.8	27.0	27.6	28.1	27.7	27.9	28.1
16 (228)	0.0	0.4	1.3	24.3	26.7	30.2	85.3	95.7	100.0	1.0	18.8	27.1	27.7	28.6	27.7	28.0	28.4
17 (229)	0.0	0.5	1.2	24.4	26.7	30.3	82.3	94.8	100.0	0.0	17.6	27.2	27.8	28.4	27.9	28.1	28.4
18 (230)	0.0	0.5	1.5	24.2	26.3	29.5	85.0	96.3	100.0	0.0	12.4	27.2	27.6	27.9	27.9	28.1	28.4
19 (231)	0.0	0.8	1.9	23.5	25.7	28.6	88.2	96.5	100.0	12.8	16.9	26.8	27.2	27.7	27.7	27.9	28.1
20 (232)	0.0	0.6	1.3	23.4	24.7	26.8	91.1	99.0	100.0	5.4	11.8	26.4	26.8	27.1	27.4	27.6	27.9
21 (233)	0.0	0.6	1.7	23.2	24.2	26.5	94.9	99.6	100.0	25.6	7.6	26.0	26.4	26.8	27.0	27.2	27.5
22 (234)	0.0	0.6	1.1	23.2	25.0	28.0	88.6	98.0	100.0	28.4	12.4	25.1	25.8	26.4	26.2	26.5	26.9
23 (235)	0.1	1.0	1.9	23.4	25.8	29.9	84.4	96.1	100.0	63.8	19.0	25.8	26.2	27.1	26.6	26.8	27.2
24 (236)	0.0	0.9	1.9	23.5	24.7	25.8	100.0	100.0	100.0	115.4	6.6	24.4	25.2	25.8	25.0	25.8	26.7
25 (237)	0.0	0.7	1.5	23.8	25.7	28.8	91.4	98.5	100.0	4.0	15.3	25.2	25.8	26.6	26.0	26.2	26.6
26 (238)	0.0	0.6	1.6	24.1	25.9	28.8	89.3	97.6	100.0	5.2	13.1	25.9	26.3	26.7	26.5	26.6	26.9
27 (239)	0.0	0.8	1.7	23.4	26.0	29.3	83.5	94.9	100.0	0.2	19.1	25.9	26.4	27.0	26.6	26.8	27.1
28 (240)	0.0	0.6	1.6	23.4	26.1	29.7	81.8	95.3	100.0	13.6	17.1	26.0	26.6	27.2	26.8	27.0	27.3
29 (241)	0.0	0.5	1.6	23.8	26.3	30.7	78.5	93.8	100.0	1.4	20.6	26.2	26.8	27.6	26.9	27.2	27.5
30 (242)	0.0	0.4	1.2	23.4	26.0	30.0	85.1	96.3	100.0	0.4	17.8	26.5	27.0	27.6	27.2	27.4	27.7
31 (243)	0.0	0.6	1.5	23.2	26.3	30.3	84.5	95.1	100.0	50.2	19.4	26.5	27.1	27.8	26.9	27.5	27.8
	0.0	0.6	2.1	23.2	25.9	31.4	78.5	97.1	100.0	529.4	450	24.4	26.8	28.6	25.0	27.2	28.4

-99.00 indicate No data or Invalid data.



KERALA FOREST RESEARCH INSTITUTE DAILY FOREST METEOROLOGICAL DATA  
 Station 1. Peechi-Vazhani WS 1st September 1998 to 30th September 1998

Day	Wind speed			Temperature			Humidity			Rain mm	Solar MJ/m2	Soil(15cm) temp oC			Soil(30cm) temp oC		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max			Min	Avg	Max	Min	Avg	Max
1 (244)	0.0	0.5	1.3	23.2	25.1	28.9	87.8	98.0	100.0	13.8	12.7	25.6	26.0	26.8	25.6	26.7	27.1
2 (245)	0.0	0.5	1.0	24.1	26.3	30.7	79.9	94.9	100.0	13.8	19.9	26.0	26.7	27.6	26.9	27.1	27.6
3 (246)	0.0	0.5	1.3	23.6	26.1	30.0	83.8	96.5	100.0	8.2	14.8	26.6	27.1	27.6	27.3	27.5	27.8
4 (247)	0.0	0.5	1.3	23.8	26.1	29.5	87.9	96.8	100.0	6.6	15.2	26.7	27.1	27.6	27.4	27.6	27.8
5 (248)	0.1	0.8	1.6	23.4	24.3	27.3	93.6	99.6	100.0	31.0	9.4	26.2	26.7	27.3	27.2	27.4	27.8
6 (249)	0.0	0.7	1.4	23.5	25.0	29.3	88.5	98.6	100.0	43.4	15.3	25.8	26.3	27.0	26.7	26.9	27.2
7 (250)	0.0	0.7	1.6	23.5	25.5	28.2	94.1	99.1	100.0	13.8	14.1	26.1	26.5	26.9	26.8	27.0	27.2
8 (251)	0.1	0.6	1.0	24.0	24.8	26.3	100.0	100.0	100.0	68.6	5.5	25.7	26.3	26.7	26.4	26.9	27.2
9 (252)	0.0	0.8	1.5	23.4	24.1	25.0	100.0	100.0	100.0	79.2	7.6	24.7	25.1	25.7	25.4	25.8	26.5
10 (253)	0.0	0.5	1.6	22.8	25.9	30.0	82.2	95.1	100.0	12.6	19.7	25.1	25.7	26.5	25.9	26.1	26.7
11 (254)	0.0	0.6	1.3	22.9	24.9	27.8	94.6	99.3	100.0	22.6	12.2	25.7	26.1	26.6	26.4	26.6	26.8
12 (255)	0.0	0.6	1.3	23.2	25.0	28.7	92.5	99.6	100.0	19.4	13.2	25.8	26.2	26.7	26.5	26.7	26.9
13 (256)	0.0	0.5	1.0	23.2	24.2	27.1	98.0	99.9	100.0	37.4	7.9	25.5	25.9	26.4	26.3	26.5	26.9
14 (257)	0.0	0.7	2.0	22.7	25.1	29.1	88.4	97.4	100.0	12.8	17.8	25.4	25.9	26.6	26.2	26.4	26.7
15 (258)	0.0	0.5	1.2	23.2	24.7	27.6	96.1	99.7	100.0	25.0	12.3	25.8	26.1	26.5	26.5	26.6	26.8
16 (259)	0.0	0.6	1.4	23.1	25.2	28.5	91.9	98.8	100.0	10.2	13.7	25.7	26.1	26.5	26.4	26.6	26.8
17 (260)	0.0	0.4	1.3	23.1	25.9	29.7	85.1	95.4	100.0	5.8	19.2	25.9	26.4	27.0	26.5	26.7	27.1
18 (261)	0.0	0.4	1.4	23.3	26.5	30.9	78.2	92.8	100.0	0.0	23.5	26.1	26.7	27.5	26.8	27.0	27.5
19 (262)	0.0	0.4	1.3	23.3	26.7	31.0	75.1	91.8	100.0	0.2	23.3	26.5	27.0	27.7	27.2	27.4	27.8
20 (263)	0.0	0.4	1.2	23.2	25.0	28.3	90.9	98.6	100.0	21.4	12.3	26.6	26.9	27.3	27.4	27.5	27.8
21 (264)	0.0	0.5	1.6	23.0	25.5	29.2	86.2	96.8	100.0	5.2	19.8	26.1	26.6	27.2	27.0	27.2	27.4
22 (265)	0.0	0.8	1.8	23.0	25.9	30.7	82.2	95.6	100.0	4.4	22.3	26.3	26.9	27.4	27.1	27.3	27.6
23 (266)	0.1	0.6	1.2	23.5	24.8	27.8	94.4	99.7	100.0	30.2	8.3	26.5	26.7	27.2	27.2	27.4	27.6
24 (267)	0.0	0.3	0.9	22.5	24.8	28.3	88.7	97.6	100.0	9.2	12.6	25.9	26.2	26.5	26.7	26.9	27.2
25 (268)	0.0	0.3	0.8	23.6	26.3	29.7	83.8	95.5	100.0	0.6	16.0	26.1	26.5	27.0	26.8	26.9	27.2
26 (269)	0.0	0.6	1.2	23.0	23.8	25.5	98.1	99.9	100.0	14.2	6.3	26.1	26.4	26.9	26.8	27.0	27.3
27 (270)	0.0	0.6	1.4	22.9	25.8	29.7	82.0	94.9	100.0	0.0	19.0	25.7	26.2	26.8	26.5	26.7	27.0
28 (271)	0.0	0.6	1.8	22.8	25.9	30.5	81.7	95.3	100.0	2.8	18.6	26.0	26.5	27.0	26.8	27.0	27.2
29 (272)	0.0	0.6	1.1	23.4	24.3	25.6	100.0	100.0	100.0	17.2	5.8	26.2	26.4	26.8	26.9	27.0	27.3
30 (273)	0.0	0.5	1.3	23.6	26.4	30.9	78.6	94.2	100.0	0.8	18.9	25.9	26.4	27.1	26.6	26.8	27.1
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	0.0	0.5	2.0	22.5	25.3	31.0	75.1	97.4	100.0	530.4	437	24.7	26.4	27.7	25.4	26.9	27.8

-99.00 indicate No data or Invalid data.

## KERALA FOREST RESEARCH INSTITUTE, DAILY FOREST METEOROLOGICAL DATA

Station 1. Peechi-Vazhani W/S 1st October 1998 to 31st October 1998

Day	Wind speed			Temperature			Humidity			Rain mm	Solar MJ/m2	Soil(15cm)			Soil(30cm)		
	m/s			oC			%					temp oC			temp oC		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Total	Total	Min	Avg	Max	Min	Avg	Max
1 (274)	0.0	0.3	1.0	24.0	26.1	29.7	83.6	96.3	100.0	0.2	13.7	26.4	26.7	27.0	27.0	27.1	27.3
2 (275)	0.0	0.5	1.3	23.8	25.4	28.5	92.7	99.2	100.0	27.6	10.6	26.4	26.6	26.8	27.0	27.1	27.3
3 (276)	0.0	0.4	1.2	22.1	24.5	27.6	92.7	99.2	100.0	28.6	7.4	25.6	26.0	26.6	26.5	26.7	27.1
4 (277)	0.0	0.4	1.5	22.8	25.7	29.5	85.0	96.2	100.0	0.2	15.5	25.6	26.0	26.6	26.3	26.5	26.8
5 (278)	0.0	0.4	1.3	22.2	24.5	29.1	84.7	98.4	100.0	18.0	13.6	25.8	26.2	26.6	26.5	26.7	26.8
6 (279)	0.0	0.5	1.4	23.0	25.4	29.6	83.6	96.5	100.0	0.4	15.8	25.8	26.2	26.7	26.5	26.7	26.9
7 (280)	0.0	0.5	1.2	22.8	26.0	30.1	83.2	95.6	100.0	4.0	17.3	26.0	26.5	27.1	26.6	26.8	27.1
8 (281)	0.0	0.7	1.5	23.3	25.6	29.1	87.1	97.3	100.0	2.8	17.7	26.0	26.8	27.6	26.8	27.0	27.4
9 (282)	0.0	0.7	1.4	22.8	23.9	27.6	88.7	99.3	100.0	33.8	7.3	26.0	<b>26.4</b>	27.0	26.8	27.1	27.4
10 (283)	0.4	0.9	1.3	23.3	24.4	25.9	98.7	99.9	100.0	28.8	6.5	25.5	25.8	26.0	26.4	26.5	26.8
11 (284)	0.3	1.0	1.3	23.6	24.4	25.2	100.0	100.0	100.0	86.6	2.8	24.4	24.8	25.5	25.2	25.4	26.4
12 (285)	0.3	0.8	1.5	23.3	24.0	25.1	100.0	100.0	100.0	45.4	4.9	24.6	25.0	25.3	25.2	25.4	25.6
13 (286)	0.0	0.6	1.5	23.1	25.4	29.3	87.3	96.3	100.0	7.4	15.4	24.6	25.5	26.8	25.4	25.7	26.3
14 (287)	0.0	0.5	1.1	22.6	23.8	26.9	97.5	99.8	100.0	107.4	7.1	24.0	25.0	26.0	24.5	25.3	26.3
15 (288)	0.0	0.7	1.5	22.5	24.7	27.4	94.3	99.0	100.0	13.4	12.2	24.5	25.2	26.1	25.2	25.5	25.9
16 (289)	0.0	0.4	1.2	23.5	25.0	28.5	91.1	98.8	100.0	27.4	11.5	25.2	25.9	26.9	25.6	25.9	26.4
17 (290)	0.0	0.4	1.6	23.6	24.7	29.0	87.6	99.0	100.0	9.0	10.1	25.5	26.1	26.7	26.0	26.3	26.5
18 (291)	0.0	0.5	1.6	23.5	25.0	28.7	89.2	98.5	100.0	20.2	13.0	25.5	26.2	27.0	26.0	26.4	26.7
19 (292)	0.0	0.5	1.3	22.8	25.8	29.9	81.8	94.3	100.0	0.0	20.4	25.4	26.5	28.0	26.2	26.6	27.2
20 (293)	0.0	0.4	1.3	22.3	25.7	30.4	73.1	92.7	100.0	0.2	22.3	25.7	27.0	28.6	26.6	27.0	27.7
21 (294)	0.0	0.4	0.7	22.0	25.1	30.1	65.5	89.0	100.0	0.2	24.6	25.8	27.2	28.9	26.9	27.4	27.9
22 (295)	0.0	0.4	0.9	21.5	24.6	29.6	74.0	91.0	100.0	0.0	18.5	25.8	26.7	27.9	26.9	27.3	27.8
23 (296)	0.0	0.4	0.9	21.3	25.2	30.3	72.8	90.3	100.0	0.0	20.2	25.5	26.7	28.2	26.7	27.1	27.6
24 (297)	0.1	0.4	0.8	21.4	25.4	30.2	75.0	92.9	100.0	0.0	18.1	25.6	26.8	28.0	26.8	27.2	27.6
25 (298)	0.0	0.4	1.0	23.0	26.4	30.6	79.7	94.2	100.0	0.0	17.9	26.2	27.2	28.6	27.1	27.4	27.9
26 (299)	0.0	0.4	1.0	23.9	26.3	29.8	85.6	95.9	100.0	0.8	14.8	26.7	27.4	28.4	27.5	27.7	28.0
27 (300)	0.0	0.5	1.9	23.7	26.3	31.4	84.0	96.3	100.0	7.8	16.4	26.7	27.6	28.7	27.5	27.8	28.1
28 (301)	0.0	0.5	1.2	23.5	26.0	31.1	82.8	96.7	100.0	0.8	15.2	26.6	27.5	28.6	27.4	27.7	28.0
29 (302)	0.0	0.5	1.1	22.9	26.4	31.4	78.9	95.7	100.0	2.4	18.5	26.4	27.6	29.1	27.3	27.8	28.3
30 (303)	0.0	0.7	1.7	23.0	26.1	30.1	83.2	95.7	100.0	0.8	19.2	26.8	27.9	29.1	27.6	28.0	28.4
31 (304)	0.0	0.5	1.5	23.2	26.3	30.4	84.4	95.5	100.0	0.0	16.0	26.8	27.8	29.1	27.7	28.1	28.4
	0.0	0.5	1.9	21.3	25.3	31.4	65.5	96.4	100.0	474.2	445	24.0	26.5	29.1	24.5	26.8	28.4

-99.00 indicate No data or Invalid data.

## KERALA FOREST RESEARCH INSTITUTE. DAILY FOREST METEOROLOGICAL DATA

Station 1, Peechi-Vazhani WLS 1st November 1998 to 30th November 1998

Day	Wind speed			Temperature			Humidity			Rain mm	Solar MJ/m <sup>2</sup>	Soil(15cm)			Soil(30cm)		
	m/s			oc			%					temp oC			temp oC		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Total	Total	Min	Avg	Max	Min	Avg	Max
1 (305)	0.0	0.3	1.3	23.0	25.8	30.3	71.5	93.2	100.0	0.0	14.2	27.0	27.8	28.9	27.8	28.1	28.4
2 (306)	0.0	0.3	2.6	22.8	25.7	31.0	62.2	91.0	100.0	1.6	16.2	26.5	27.5	28.6	27.5	27.9	28.3
3 (307)	0.0	0.7	2.1	22.6	24.4	27.0	93.9	99.4	100.0	4.6	7.3	26.5	26.9	27.6	27.4	27.7	28.2
4 (308)	0.0	0.2	0.8	22.9	24.8	27.7	90.3	98.6	100.0	2.4	7.4	26.1	26.5	27.0	27.0	27.1	27.4
5 (309)	0.0	0.6	1.8	23.4	25.6	29.0	85.0	95.6	100.0	0.2	13.0	25.9	26.6	27.4	26.8	27.0	27.3
6 (310)	0.0	0.5	1.8	23.3	26.7	31.9	71.4	93.3	100.0	0.0	19.8	26.0	27.2	28.6	26.9	27.3	28.0
7 (311)	0.0	0.6	1.6	23.5	26.6	31.5	79.7	95.4	100.0	2.2	17.5	26.6	27.7	28.8	27.5	27.9	28.3
8 (312)	0.2	1.4	2.6	23.4	25.0	29.7	83.6	97.5	100.0	8.0	15.0	26.8	27.5	28.4	27.7	28.0	28.3
9 (313)	0.0	0.6	1.4	23.7	25.2	29.7	86.3	98.4	100.0	29.4	11.7	26.4	27.0	27.6	27.3	27.6	27.9
10 (314)	0.0	0.7	1.8	22.5	24.5	26.8	97.5	99.7	100.0	53.6	8.1	24.6	25.4	26.4	25.1	26.1	27.4
11 (315)	0.0	1.1	3.5	23.6	26.3	30.7	64.0	89.4	100.0	0.0	23.1	25.5	26.8	28.6	26.4	26.8	27.6
12 (316)	0.0	0.4	1.2	22.8	26.5	32.4	70.4	93.0	100.0	0.2	20.1	26.2	27.4	29.0	27.1	27.5	28.1
13 (317)	0.0	0.5	1.5	23.6	26.1	29.7	83.8	97.2	100.0	4.2	13.6	27.0	27.6	28.3	27.6	27.9	28.1
14 (318)	0.0	0.4	1.5	22.9	26.3	31.3	75.7	93.7	100.0	0.0	18.0	26.5	27.5	28.5	27.4	27.7	28.1
15 (319)	0.0	0.5	1.5	22.3	25.5	30.2	77.6	93.5	100.0	1.6	19.1	26.5	27.5	28.7	27.4	27.8	28.1
16 (320)	0.0	0.5	1.3	21.3	25.2	30.9	69.6	91.3	100.0	12.4	20.1	25.9	27.0	28.2	27.2	27.6	28.1
17 (321)	0.0	0.5	1.4	21.0	25.3	31.0	71.8	92.7	100.0	0.0	20.7	25.8	27.0	28.2	27.0	27.5	27.9
18 (322)	0.0	0.3	0.8	22.8	26.0	31.2	72.3	93.3	100.0	0.0	16.1	26.6	27.5	28.7	27.4	27.8	28.2
19 (323)	0.0	0.3	1.4	22.2	25.7	31.2	71.0	91.9	100.0	0.2	18.3	26.3	27.3	28.5	27.4	27.8	28.2
20 (324)	0.0	0.4	1.4	22.0	25.6	31.1	73.5	93.0	100.0	0.0	19.4	26.1	27.2	28.5	27.3	27.7	28.1
21 (325)	0.0	0.4	1.2	22.3	25.4	29.6	80.3	94.2	100.0	0.2	14.5	26.4	27.2	28.1	27.4	27.8	28.1
22 (326)	0.0	0.5	1.5	22.0	25.9	31.0	75.0	92.8	100.0	0.0	20.3	26.1	27.2	28.4	27.2	27.6	28.1
23 (327)	0.0	0.5	1.7	23.1	26.6	32.2	71.4	91.9	100.0	0.0	20.5	26.7	27.8	29.1	27.6	28.0	28.6
24 (328)	0.0	0.5	1.5	23.5	26.5	31.7	71.9	93.5	100.0	0.0	20.2	27.1	28.1	29.3	28.0	28.4	28.8
25 (329)	0.1	0.6	1.9	23.1	26.5	31.5	71.8	93.0	100.0	0.2	20.4	27.2	28.3	29.7	28.1	28.6	29.0
26 (330)	0.0	0.6	1.8	22.9	26.5	31.9	70.6	92.2	100.0	0.0	20.1	27.1	28.3	29.7	28.2	28.6	29.0
27 (331)	0.0	0.8	2.2	23.1	26.2	31.8	72.1	92.7	100.0	0.0	19.4	27.1	28.2	29.5	28.2	28.6	29.0
28 (332)	0.0	1.0	2.4	23.1	25.5	30.1	71.3	92.1	100.0	0.0	18.0	26.8	27.8	28.6	28.0	28.4	28.9
29 (333)	0.0	0.7	2.2	22.6	25.7	31.2	75.1	94.1	100.0	0.0	18.1	26.5	27.5	28.5	27.7	28.1	28.5
30 (334)	0.1	0.4	1.3	22.2	26.1	32.1	69.1	91.8	100.0	0.2	18.5	26.4	27.6	28.9	27.7	28.1	28.5
	0.0	0.6	3.5	21.0	25.8	32.4	62.2	94.0	100.0	121.2	509	24.6	27.4	29.7	25.1	27.8	29.0

-99.00 indicate No data or Invalid data.

KERALA FOREST RESEARCH INSTITUTE, DAILY FOREST METEOROLOGICAL DATA

Station 1. Peechi-Vazhani WLS 1st December 1998 to 31st December 1998

Day	Wind speed			Temperature			Humidity			Rain	Solar	Soil(15cm)			Soil(30cm)		
	m/s			oc			%			mm	MJ/m2	temp oC			temp oC		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Total	Total	Min	Avg	Max	Min	Avg	Max
1 (335)	0.0	0.6	2.2	22.6	25.6	31.0	78.2	95.0	100.0	11.2	14.3	26.6	27.5	28.3	27.8	28.1	28.5
2 (336)	0.1	0.9	2.2	23.5	26.2	31.1	74.5	93.4	100.0	7.6	17.9	26.6	27.8	29.5	27.6	28.0	28.5
3 (337)	0.4	1.8	4.3	22.1	25.8	30.1	65.3	85.9	100.0	0.0	21.6	26.3	27.6	28.9	27.6	28.1	28.5
4 (338)	0.4	2.1	3.8	23.1	26.6	30.0	70.6	85.1	98.9	0.0	17.7	25.8	26.8	27.6	27.3	27.7	28.2
5 (339)	0.0	1.7	3.5	23.6	26.7	30.7	75.2	89.2	100.0	0.0	18.0	25.8	26.8	28.0	27.0	27.4	27.8
6 (340)	0.0	1.9	3.8	23.3	25.8	28.6	71.3	85.2	100.0	0.0	13.5	26.1	26.6	27.3	27.1	27.4	27.7
7 (341)	0.5	2.4	4.3	23.7	26.4	29.8	65.2	79.1	88.5	0.0	19.7	25.0	26.2	27.6	26.5	26.9	27.4
8 (342)	1.0	2.5	4.7	23.6	25.4	26.5	76.8	89.7	98.3	1.0	4.6	25.3	25.7	26.6	26.4	26.8	27.3
9 (343)	1.6	3.2	5.1	24.5	26.1	28.1	84.4	92.1	100.0	1.0	12.8	24.9	25.5	26.3	26.0	26.2	26.4
10 (344)	1.3	2.7	3.8	23.6	25.4	28.2	89.2	96.5	100.0	14.2	13.3	24.9	25.7	26.6	26.0	26.2	26.5
11 (345)	1.5	2.6	3.5	23.8	25.0	26.1	94.3	99.0	100.0	2.0	7.8	25.3	25.7	26.0	26.1	26.2	26.5
12 (346)	0.2	2.2	4.3	23.3	24.9	27.9	86.4	95.7	100.0	1.8	12.3	24.5	25.2	25.7	25.6	25.9	26.2
13 (347)	0.2	1.7	3.3	23.0	25.0	28.0	87.1	97.8	100.0	1.4	11.6	25.0	25.5	26.2	25.8	26.0	26.2
14 (348)	0.1	1.5	2.7	22.3	24.5	27.7	84.5	94.8	100.0	3.2	13.8	24.7	25.4	26.1	25.7	25.9	26.2
15 (349)	0.0	0.7	2.4	22.0	25.2	30.5	73.3	93.6	100.0	0.2	18.9	24.7	26.1	28.1	25.6	26.1	26.9
16 (350)	0.0	1.0	2.3	23.7	25.9	29.0	79.4	93.6	100.0	0.0	16.2	25.9	26.8	27.9	26.5	26.9	27.3
17 (351)	0.1	1.1	2.4	22.2	25.5	30.6	63.8	87.8	100.0	0.0	21.3	25.6	26.9	28.5	26.6	27.1	27.6
18 (352)	0.1	0.9	2.4	21.4	25.1	29.8	72.3	91.5	100.0	0.0	21.2	25.4	26.8	28.4	26.6	27.1	27.6
19 (353)	0.2	1.0	2.1	22.3	25.6	30.3	73.0	92.5	100.0	0.0	20.6	25.6	27.0	28.5	26.7	27.2	27.7
20 (354)	0.0	1.3	3.0	23.3	25.6	29.8	71.5	91.7	100.0	0.0	20.3	26.0	27.2	28.5	27.0	27.4	27.8
21 (355)	0.1	1.7	3.3	21.9	24.8	29.3	71.5	90.8	100.0	0.0	21.1	25.7	27.0	28.4	26.9	27.4	27.8
22 (356)	0.0	1.5	3.4	21.1	24.2	29.3	69.0	89.3	100.0	0.0	21.7	25.1	26.5	27.9	26.6	27.2	27.7
23 (357)	0.6	2.1	3.7	20.9	24.2	29.2	61.0	84.4	100.0	0.0	22.4	24.8	26.2	27.6	26.4	26.9	27.5
24 (358)	0.2	1.8	3.7	19.8	24.0	29.5	63.9	87.5	100.0	0.0	22.0	24.4	25.8	27.4	26.1	26.7	27.2
25 (359)	1.2	2.4	4.2	20.5	24.0	28.7	52.9	78.8	98.8	0.0	22.7	24.3	25.6	27.0	26.0	26.5	27.0
26 (360)	0.2	1.5	2.9	19.9	23.6	29.5	51.5	80.4	100.0	0.0	21.6	23.6	25.1	26.6	25.6	26.2	26.8
27 (361)	0.5	2.2	3.5	20.7	25.7	29.0	72.1	83.9	100.0	0.0	19.2	24.5	25.7	27.2	25.9	26.4	26.9
28 (362)	0.5	2.4	4.0	24.9	26.8	29.5	72.9	82.7	90.9	0.0	19.1	25.2	26.3	27.4	26.4	26.8	27.2
29 (363)	0.2	2.0	4.6	23.6	26.0	29.8	69.8	86.3	98.6	0.0	17.2	25.4	26.3	27.3	26.6	26.9	27.2
30 (364)	0.1	2.0	4.0	22.1	25.4	29.7	68.7	87.5	100.0	0.0	20.8	24.9	26.1	27.4	26.4	26.8	27.2
31 (365)	0.7	2.1	3.6	21.7	25.8	30.2	67.4	84.8	99.3	0.0	21.9	24.8	26.2	27.5	26.4	26.8	27.3
	0.0	1.8	5.1	19.8	25.4	31.1	51.5	89.2	100.0	43.6	547	23.6	26.3	29.5	25.6	26.9	28.5

-99.00 indicate No data or Invalid data.

KERALA FOREST RESEARCH INSTITUTE. DAILY FOREST METEOROLOGICAL DATA  
 Station 1. Peechi-Vazhani WLS 1st January 1999 to 31st January 1999

Day	Wind speed			Temperature			Humidity			Rain	Solar	Soil(15cm)			Soil(30cm)		
	m/s			oC			%			mm	MJ/m2	temp oC			temp oC		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Total	Total	Min	Avg	Max	Min	Avg	Max
1 ( 1)	0.5	2.3	3.5	23.4	26.3	30.4	65.0	82.1	96.8	0.0	22.4	25.0	26.4	27.7	26.5	27.0	27.5
2 ( 2)	0.3	2.4	4.4	22.0	25.1	29.3	65.2	80.7	96.9	0.0	20.8	24.7	26.0	26.9	26.5	27.0	27.5
3 ( 3)	0.6	2.5	3.9	21.4	24.8	29.1	62.0	80.0	99.0	0.0	21.8	24.6	25.8	27.1	26.2	26.7	27.2
4 ( 4)	1.4	2.5	3.9	21.2	24.7	29.0	64.1	80.0	96.5	0.0	22.7	24.1	25.6	26.9	26.0	26.6	27.0
5 ( 5)	0.0	1.5	2.6	21.2	24.9	30.4	63.5	85.5	100.0	0.0	22.2	24.6	25.9	27.5	26.1	26.7	27.2
6 ( 6)	0.1	0.9	2.4	21.0	25.0	31.5	64.7	88.3	100.0	0.0	20.9	24.9	26.2	27.5	26.4	26.9	27.3
7 ( 7)	0.0	0.4	1.0	20.2	24.9	31.7	61.9	87.0	100.0	0.0	20.2	24.9	26.1	27.1	26.4	26.9	27.3
8 ( 8)	0.0	0.9	2.3	20.8	25.0	31.1	63.6	88.0	100.0	0.0	20.5	25.0	26.1	27.5	26.4	26.9	27.3
9 ( 9)	0.0	1.2	2.9	21.5	25.3	30.8	63.8	88.0	100.0	0.0	20.7	25.2	26.4	27.5	26.5	27.0	27.4
10 ( 10)	0.0	1.2	2.6	21.5	25.4	31.2	57.8	86.0	100.0	0.0	22.1	25.4	26.5	27.8	26.7	27.2	27.6
11 ( 11)	0.8	2.2	4.3	21.3	25.2	29.8	62.7	82.1	100.0	0.0	22.3	25.3	26.4	27.5	26.8	27.2	27.6
12 ( 12)	0.1	1.4	3.2	21.3	25.0	30.6	57.7	84.1	100.0	0.0	22.1	25.0	26.2	27.4	26.6	27.0	27.5
13 ( 13)	0.0	1.7	3.8	21.6	25.2	30.9	49.9	81.8	100.0	0.0	22.5	25.1	26.2	27.3	26.6	27.0	27.4
14 ( 14)	0.0	2.4	4.5	20.4	26.0	31.4	59.2	81.5	100.0	0.0	23.1	25.1	26.3	27.5	26.5	27.0	27.5
15 ( 15)	1.8	3.4	4.9	23.3	26.5	30.3	64.4	78.6	90.6	0.0	22.7	25.2	26.4	27.4	26.7	27.1	27.5
16 ( 16)	0.9	2.5	4.3	22.5	26.0	30.0	63.9	79.8	94.0	0.0	22.4	25.0	26.3	27.3	26.7	27.1	27.5
17 ( 17)	0.5	2.2	4.3	21.5	25.8	30.2	64.9	81.3	99.0	0.0	22.7	25.3	26.4	27.5	26.7	27.2	27.6
18 ( 18)	0.0	2.3	4.8	21.8	25.5	30.9	52.9	79.8	98.5	0.0	22.4	25.2	26.4	27.3	26.8	27.2	27.6
19 ( 19)	0.6	2.4	3.6	21.7	25.5	31.0	40.8	72.7	96.7	0.0	23.6	25.1	26.2	27.3	26.6	27.1	27.5
20 ( 20)	0.3	2.9	4.7	22.0	25.5	30.9	46.7	72.0	92.2	0.0	23.7	24.8	25.9	27.0	26.5	27.0	27.5
21 ( 21)	0.2	2.4	4.1	20.9	24.9	30.3	54.3	74.8	94.3	0.0	23.7	24.5	25.7	26.7	26.4	26.9	27.4
22 ( 22)	0.0	1.7	3.3	20.8	24.1	29.1	62.9	81.0	95.8	0.0	19.3	24.4	25.4	26.2	26.2	26.7	27.1
23 ( 23)	0.0	1.2	3.2	20.0	24.6	31.0	43.3	79.3	100.0	0.0	21.4	23.9	25.1	26.1	25.8	26.3	26.8
24 ( 24)	0.6	2.0	3.6	20.7	24.7	29.1	51.0	76.4	100.0	0.0	15.6	24.6	25.2	25.8	26.0	26.3	26.6
25 ( 25)	0.4	2.2	4.3	21.8	26.1	31.5	29.4	56.1	85.4	0.0	26.7	23.9	24.9	26.1	25.6	26.0	26.5
26 ( 26)	0.0	1.8	3.7	18.5	24.7	32.7	25.4	60.9	92.6	0.0	25.9	23.5	24.8	26.0	25.5	26.1	26.5
27 ( 27)	0.0	1.0	2.5	18.2	24.2	32.3	31.8	74.9	100.0	0.0	24.3	23.6	24.9	26.1	25.6	26.2	26.6
28 ( 28)	0.0	0.7	1.8	19.6	24.7	31.4	52.0	86.7	100.0	0.0	21.6	24.2	25.5	26.6	25.9	26.4	26.9
29 ( 29)	0.0	1.0	2.9	21.6	25.4	32.2	45.9	86.4	100.0	0.0	21.6	25.0	26.1	27.1	26.4	26.8	27.2
30 ( 30)	0.0	0.8	1.9	21.5	25.8	32.8	46.2	87.8	100.0	0.0	22.3	25.2	26.4	27.4	26.6	27.0	27.5
31 ( 31)	0.0	0.9	2.0	22.9	26.5	32.8	46.7	86.1	100.0	0.0	22.6	26.2	27.1	28.0	27.1	27.5	28.0

0.0 1.8 4.9 18.2 25.3 32.8 25.4 80.3 100.0 0.0 687 23.5 26.0 28.0 25.5 26.8 28.0

-99.00 indicate No data or Invalid data.

## KERALA FOREST RESEARCH INSTITUTE, DAILY FOREST METEOROLOGICAL DATA

Station 1, Peechi-Vazhani WLS 1st February 1999 to 28th February 1999

Day	Wind speed			Temperature			Humidity			Rain mm	Solar MJ/m2	Soil(15cm) temp oC			Soil(30cm) temp oC		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max			Min	Avg	Max	Min	Avg	Max
1 ( 32)	0.0	1.4	2.8	22.7	26.3	33.1	28.3	78.1	100.0	0.0	24.8	26.1	27.1	27.7	27.3	27.8	28.1
2 ( 33)	0.0	1.3	2.9	21.4	25.9	32.1	47.5	82.2	100.0	0.0	24.8	25.7	26.8	27.8	27.2	27.7	28.1
3 ( 34)	0.0	1.0	2.6	22.3	26.7	33.0	55.2	84.0	100.0	0.0	23.9	26.2	27.2	28.3	27.4	27.9	28.4
4 ( 35)	0.0	0.9	3.0	22.8	27.0	33.3	56.5	86.9	100.0	0.0	22.8	26.7	27.6	28.6	27.8	28.2	28.7
5 ( 36)	0.0	0.8	2.0	21.4	25.9	33.2	61.7	91.1	100.0	21.8	20.5	27.3	27.9	28.8	28.2	28.5	28.8
6 ( 37)	0.0	1.8	4.1	22.3	26.9	32.8	56.7	85.6	100.0	0.0	23.6	26.7	27.4	28.3	27.7	28.2	28.7
7 ( 38)	0.2	2.3	4.9	23.9	27.6	32.6	54.7	80.5	100.0	0.0	24.8	26.6	27.4	28.2	27.6	28.0	28.4
8 ( 39)	0.0	1.3	3.7	22.0	26.5	32.5	60.3	88.3	100.0	4.8	20.3	26.9	27.7	20.5	27.8	28.1	28.4
9 ( 40)	0.0	1.2	3.0	22.1	26.5	32.3	49.9	84.5	100.0	0.0	22.8	26.5	27.4	28.3	27.5	28.0	28.4
10 ( 41)	0.0	1.1	2.8	23.2	26.8	32.7	62.8	87.4	100.0	0.0	22.5	26.5	27.5	28.5	27.6	28.0	28.4
11 ( 42)	0.0	1.5	3.3	23.3	26.5	32.6	45.6	83.6	100.0	0.0	19.9	26.7	27.6	28.2	27.7	28.1	28.4
12 ( 43)	0.0	2.0	4.0	22.3	26.5	32.1	40.6	73.4	99.5	0.0	25.6	25.9	27.0	27.8	27.3	27.8	28.3
13 ( 44)	0.0	1.6	4.0	21.8	26.7	33.2	48.6	82.4	100.0	0.0	23.8	25.7	26.8	27.8	27.2	21.7	28.1
14 ( 45)	0.0	1.4	3.8	22.6	27.3	33.7	48.1	82.6	100.0	0.0	23.5	26.4	27.3	28.3	27.5	27.9	28.4
15 ( 46)	0.0	1.9	5.1	23.2	27.7	34.1	38.7	77.4	100.0	0.0	25.2	26.7	27.6	28.5	27.8	28.2	28.6
16 ( 47)	0.0	2.0	4.3	22.9	27.7	33.7	40.5	73.8	99.9	0.0	23.8	26.6	27.5	28.4	27.8	28.3	28.6
17 ( 48)	0.1	2.0	3.7	23.5	28.1	34.7	30.1	76.6	100.0	0.0	24.8	26.7	27.7	28.5	27.9	28.3	28.7
18 ( 49)	0.0	1.7	4.5	23.4	27.8	33.5	54.4	81.0	100.0	0.0	23.4	26.8	27.8	28.7	28.1	28.5	28.9
19 ( 50)	0.0	1.9	4.3	23.3	27.2	31.5	33.5	68.1	100.0	0.0	16.3	27.1	27.6	28.4	28.2	28.5	28.9
20 ( 51)	2.0	3.0	4.1	24.8	27.4	30.0	61.9	68.8	76.6	0.0	10.9	25.9	26.4	27.1	27.4	27.7	28.4
21 ( 52)	0.3	3.0	4.3	26.1	28.9	33.4	44.6	65.5	85.8	0.0	20.2	25.6	26.4	27.3	26.9	27.3	27.8
22 ( 53)	0.2	2.1	4.0	23.9	27.9	32.3	52.6	72.0	92.0	0.0	19.1	26.3	26.9	27.6	27.4	27.7	28.0
23 ( 54)	0.1	2.3	4.8	23.3	27.9	33.9	38.7	67.9	95.6	0.0	25.8	26.0	27.0	27.9	27.4	27.8	28.3
24 ( 55)	0.3	2.8	5.8	22.3	27.8	34.0	29.4	54.2	78.8	0.0	26.8	25.8	26.8	27.6	27.4	27.9	28.3
25 ( 56)	0.0	1.9	4.3	22.3	27.3	34.7	23.2	60.9	96.7	0.0	27.6	25.3	26.6	27.4	27.3	27.8	28.2
26 ( 57)	0.0	1.6	3.6	21.4	26.9	34.8	20.4	64.0	98.8	0.0	27.8	25.1	26.5	27.4	27.2	27.8	28.2
27 ( 58)	0.0	1.4	2.8	22.7	27.4	34.7	26.9	72.9	100.0	0.0	27.1	26.2	27.1	28.2	27.6	28.0	28.6
	0.0	1.7	5.8	21.4	27.1	34.8	20.4	76.8	100.0	26.6	622	25.1	27.2	28.8	26.9	28.0	28.9

-99.00 indicate No data or Invalid data.

KERALA FOREST RESEARCH INSTITUTE, DAILY FOREST METEOROLOGICAL DATA

Station 1, Peechi-Vazhani WLS 1st March 1999 to 31st March 1999

Day	Wind speed			Temperature			Humidity			Rain mm	Solar MJ/m2	Soil(15cm)			Soil(30cm)		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max			Min	Avg	Max	Min	Avg	Max
1 ( 60)	0.0	1.9	4.5	22.9	28.2	35.1	38.2	76.9	100.0	0.0	27.1	26.9	28.0	28.9	28.4	28.8	29.3
2 ( 61)	0.0	1.4	4.0	23.6	28.7	35.4	35.1	79.3	100.0	0.0	26.3	27.4	28.4	29.3	28.7	29.1	29.6
3 ( 62)	0.1	2.2	4.9	24.0	28.9	35.6	24.1	63.6	100.0	0.0	26.6	27.2	28.3	29.1	28.8	29.3	29.7
4 ( 63)	0.1	2.0	3.8	22.9	28.4	36.2	21.8	59.7	100.0	0.0	27.7	26.2	27.5	28.4	28.3	28.9	29.5
5 ( 64)	0.0	0.8	1.8	23.2	27.7	34.6	47.0	86.3	100.0	0.0	23.5	27.1	28.2	29.1	28.6	29.0	29.5
6 ( 65)	0.0	0.9	2.3	24.0	28.4	35.2	32.0	82.6	100.0	0.0	24.5	27.8	28.7	29.5	29.0	29.4	29.8
7 ( 66)	0.0	1.4	4.1	23.5	28.3	35.7	24.0	76.1	100.0	0.0	26.4	28.1	28.8	29.4	29.2	29.6	29.9
8 ( 67)	0.0	1.2	3.5	22.8	27.9	36.0	23.3	80.3	100.0	0.0	24.7	27.6	28.5	29.2	29.1	29.5	29.9
9 ( 68)	0.0	0.7	2.4	23.6	28.5	35.4	32.1	82.8	100.0	0.0	24.0	28.0	28.8	29.7	29.2	29.6	30.0
10 ( 69)	0.0	0.6	1.8	24.6	28.8	34.9	61.7	88.4	100.0	0.0	22.2	28.4	29.2	29.9	29.5	29.8	30.2
11 ( 70)	0.0	0.7	1.6	25.0	28.9	35.5	37.2	83.2	100.0	0.0	23.8	28.5	29.3	30.0	29.6	30.0	30.3
12 ( 71)	0.0	0.5	1.4	24.3	28.5	34.3	62.3	87.3	100.0	0.0	23.2	28.7	29.4	30.2	29.7	30.1	30.5
13 ( 72)	0.0	0.6	1.6	24.2	28.5	33.7	67.2	88.1	100.0	0.0	22.2	28.6	29.5	30.1	29.8	30.2	30.5
14 ( 73)	0.0	0.5	1.7	24.3	28.5	33.9	68.4	90.0	100.0	0.0	19.9	28.8	29.5	30.1	29.9	30.2	30.5
15 ( 74)	0.0	1.3	3.3	25.1	29.3	36.4	45.0	86.8	100.0	0.0	25.1	28.9	29.7	30.5	29.9	30.3	30.7
16 ( 75)	0.0	0.7	1.7	25.6	28.7	34.6	60.6	90.7	100.0	1.2	20.3	29.4	30.0	30.7	30.3	30.6	30.8
17 ( 76)	0.0	0.6	1.7	24.9	28.3	35.0	62.5	90.0	100.0	0.0	20.3	29.1	29.9	30.4	30.2	30.5	30.8
18 ( 77)	0.0	0.6	1.5	23.4	28.5	34.0	66.9	89.3	100.0	0.0	21.7	28.2	29.3	30.0	29.8	30.2	30.7
19 ( 78)	0.0	0.5	1.3	25.4	29.2	35.5	61.3	86.9	100.0	0.0	23.7	28.7	29.6	30.4	29.9	30.3	30.7
20 ( 79)	0.0	0.5	1.5	23.9	28.7	35.4	60.2	89.5	100.0	0.0	20.0	28.4	29.6	30.2	30.0	30.4	30.8
21 ( 80)	0.0	0.5	1.5	25.4	28.9	34.6	66.5	90.0	100.0	0.0	20.3	29.3	29.9	30.6	30.2	30.5	30.8
22 ( 81)	0.0	0.4	1.5	24.9	28.7	33.4	70.1	88.9	100.0	0.0	19.9	29.1	29.8	30.4	30.2	30.6	30.8
23 ( 82)	0.0	0.5	1.5	24.0	28.7	34.8	63.2	88.0	100.0	0.0	22.5	28.5	29.5	30.3	30.0	30.4	30.8
24 ( 83)	0.0	0.6	1.6	24.8	28.8	34.0	70.6	90.6	100.0	0.0	18.2	29.1	29.7	30.3	30.2	30.4	30.7
25 ( 84)	0.0	0.5	1.7	24.4	28.9	34.6	66.9	89.2	100.0	0.0	20.6	28.8	29.7	30.3	30.0	30.4	30.7
26 ( 85)	0.0	0.5	1.5	24.3	28.8	35.0	53.5	85.1	100.0	0.0	23.3	28.8	29.6	30.2	30.0	30.4	30.7
27 ( 86)	0.0	0.6	1.6	24.6	28.3	32.8	71.8	89.1	100.0	0.0	19.2	29.0	29.6	30.0	30.1	30.4	30.7
28 ( 87)	0.0	0.6	1.4	24.4	28.8	34.5	67.0	87.8	100.0	0.0	21.4	28.9	29.5	30.2	30.0	30.3	30.6
29 ( 88)	0.0	0.6	1.6	25.2	29.2	35.4	65.8	89.4	100.0	0.0	21.0	29.1	29.8	30.4	30.2	30.5	30.8
30 ( 89)	0.0	0.5	1.5	25.2	29.2	34.6	63.3	89.3	100.0	0.0	19.0	29.3	29.9	30.5	30.3	30.6	30.8
31 ( 90)	0.0	0.6	1.8	25.7	29.5	35.9	60.0	88.2	100.0	0.0	22.1	29.2	30.0	30.6	30.3	30.6	30.9
	0.0	0.8	4.9	22.8	28.7	36.4	21.8	85.0	100.0	1.2	700	26.2	29.3	30.7	28.3	30.0	30.9

-99.00 indicate No data or Invalid data

KERALA FOREST RESEARCH INSTITUTE  
 Monthly Meteorological Data: Peechi-Vazhani WLS  
 Year= 1997

Day	Wind_speed			Temperature			Humidity			Rain	Solar	Sol(15cm)			Soi1(30cm)		
	m/s			oc			%			mm	MJ/m2	oc			oc		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Total	Total	Min	Avg	Max	Min	Avg	Max
Jan	0.1	2.1	5.3	20.8	25.6	31.7	27.9	62.4	91.4	0.0	181	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
Feb	0.0	0.8	2.9	19.8	25.6	33.8	24.3	74.4	97.7	0.0	221	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
Mar	0.0	1.2	4.9	22.3	29.1	36.7	26.5	70.9	99.1	0.0	273	31.6	33.2	37.5	31.6	32.2	36.3
Apr	0.0	0.8	3.8	23.4	29.1	36.5	29.2	72.8	96.4	0.8	677	28.5	30.9	34.7	30.0	31.1	32.1
May	0.0	0.6	3.0	22.4	28.6	35.2	41.0	79.2	100.0	67.6	599	26.5	29.1	33.3	28.5	29.6	31.4
Jun	0.0	0.6	2.3	22.0	26.7	35.7	47.7	87.5	100.0	518.4	515	23.2	27.4	31.1	23.5	28.0	30.4
Jul	0.0	0.7	2.5	22.2	25.1	30.7	69.9	95.3	100.0	763.6	357	23.4	25.3	27.6	24.0	25.5	26.9
Aug	0.0	0.7	9.9	22.0	25.5	31.8	66.9	93.8	100.0	657.0	421	23.1	26.2	30.6	23.4	26.3	28.4
Sep	0.0	0.7	2.0	22.0	26.3	32.2	66.1	91.3	100.0	147.0	553	25.8	28.6	32.8	27.0	28.5	30.0
Oct	0.0	1.0	3.8	21.8	26.7	33.3	58.0	89.4	100.0	188.5	629	25.2	29.3	34.0	26.9	29.3	31.0
Nov	0.0	1.0	4.1	22.5	26.4	32.0	62.3	90.6	100.0	240.8	548	25.4	28.4	31.9	27.3	28.6	29.8
Dec	0.0	1.9	5.0	21.8	26.7	32.8	54.1	83.8	100.0	17.6	607	25.8	28.5	31.6	27.2	28.7	29.9
	0.0	1.0	9.9	19.8	26.8	36.7	24.3	82.6	100.0	2601.3	5581	23.1	28.7	37.5	23.4	28.8	36.3

-99.00 indicate No data .or Invalid data.



KERALA FOREST RESEARCH INSTITUTE  
 Monthly Meteorological Data: Peechi-Vazhani WLS  
 Year= 1998

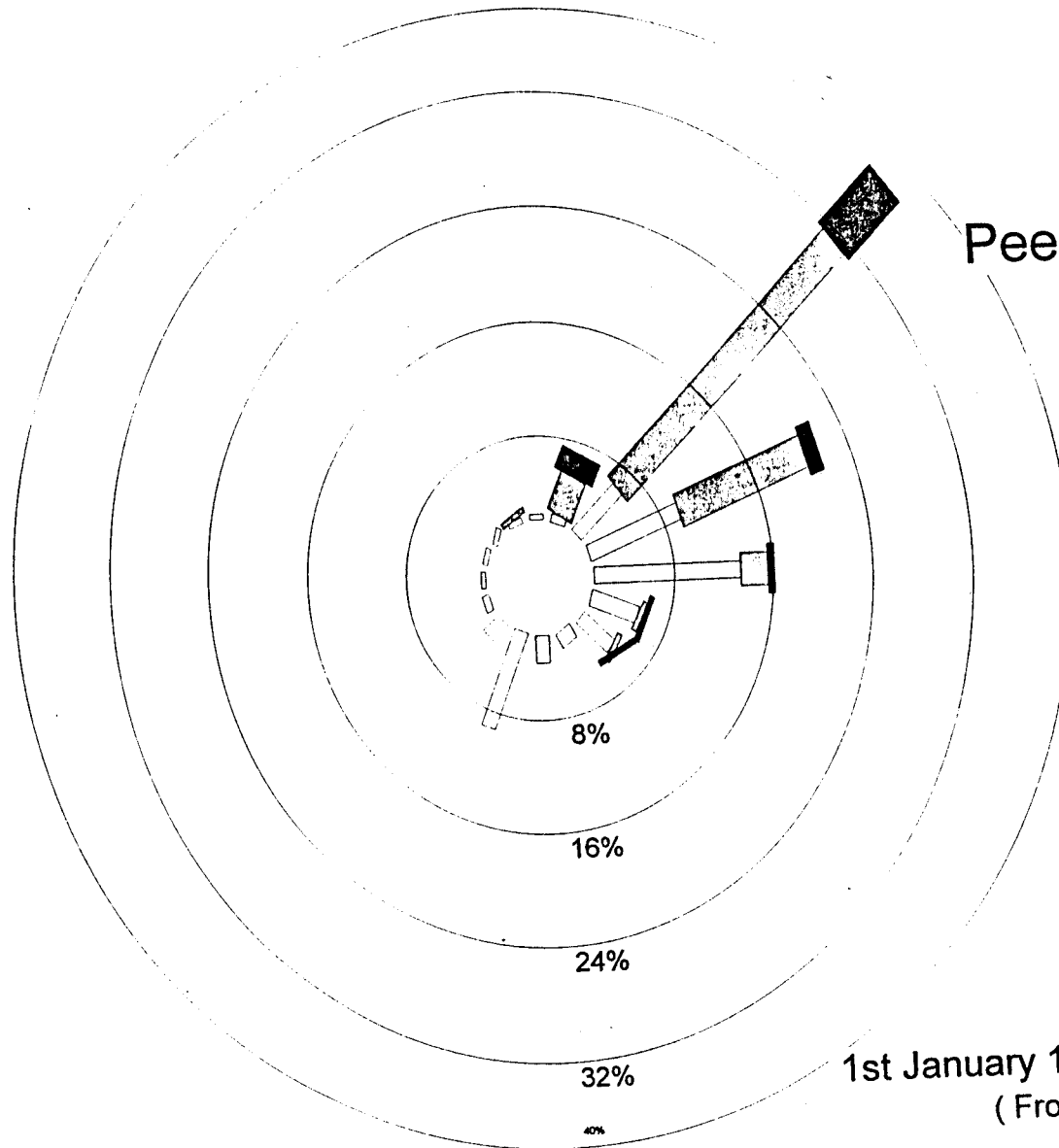
Day	Wind_speed			Temperature			Humidity			Rain	Solar	Sol(15cm)			Soi 1(30cm)		
	m/s			oc			%			mm	MJ/m2	oc			oc		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Total	Total	Min	Avg	Max	Min	Avg	Max
Jan	0.0	2.2	6.7	18.3	26.8	33.5	31.2	75.3	100.0	0.0	666	25.7	29.5	32.9	27.3	29.5	31.2
Feb	0.0	1.5	6.3	21.5	27.6	35.1	29.1	74.7	100.0	0.0	637	27.3	31.1	35.8	29.4	31.0	33.3
Mar	0.0	1.0	4.6	22.6	28.8	37.6	23.2	78.2	100.0	27.6	748	29.5	34.2	38.7	31.8	33.6	35.2
Apr	0.0	0.8	4.8	22.2	30.0	38.4	28.5	83.1	100.0	18.2	657	29.7	34.0	38.4	31.4	33.6	35.6
May	0.0	0.7	3.2	23.0	29.3	36.6	44.7	88.5	100.0	107.8	599	26.4	30.0	36.7	27.9	30.6	34.1
Jun	0.0	0.8	2.8	22.6	26.2	35.0	69.5	96.2	100.0	792.2	397	24.3	26.7	30.5	24.7	27.4	30.8
Jul	0.0	0.7	2.5	22.0	25.5	31.4	73.1	97.7	100.0	792.8	416	23.8	26.1	28.1	24.0	26.4	27.9
Aug	0.0	0.6	2.1	23.2	25.9	31.4	78.5	97.1	100.0	529.4	450	24.4	26.8	28.6	25.0	27.2	28.4
Sep	0.0	0.5	2.0	22.5	25.3	31.0	75.1	97.4	100.0	530.4	437	24.7	26.4	27.7	25.4	26.9	27.8
Oct	0.0	0.5	1.9	21.3	25.3	31.4	65.5	96.4	100.0	474.2	445	24.0	26.5	29.1	24.5	26.8	28.4
Nov	0.0	0.6	3.5	21.0	25.8	32.4	62.2	94.0	100.0	121.2	509	24.6	27.4	29.7	25.1	27.8	29.0
Dec	0.0	1.8	5.1	19.8	25.4	31.1	51.5	89.2	100.0	43.6	547	23.6	26.3	29.5	25.6	26.9	28.5
	0.0	1.0	6.7	18.3	26.8	38.4	23.2	89.0	100.0	3437.4	6508	23.6	28.8	38.7	24.0	29.0	35.6

-99.00 indicate No data or Invalid data.



# Peechi-Vazhani WLS

Wind speed m/s



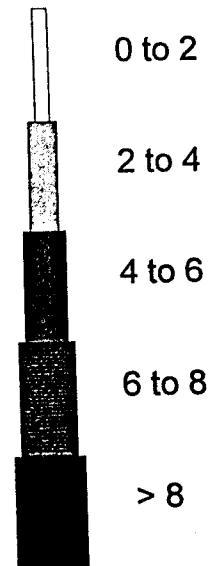
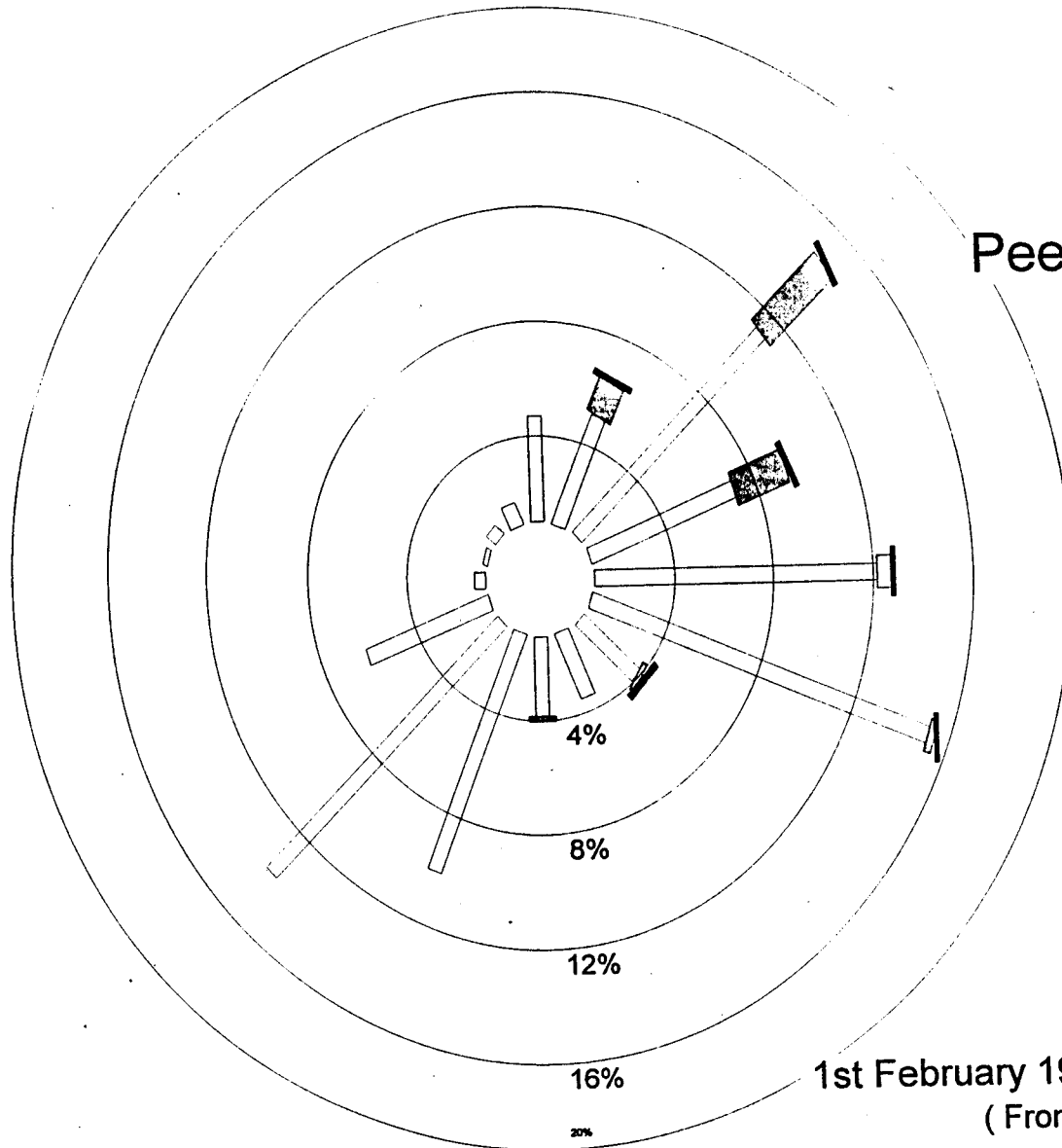
0 to 2  
2 to 4  
4 to 6  
6 to 8  
> 8

1st January 1997 to 31st January 1997  
(From 1 to 24 Hours)



# Peechi-Vazhani WLS

Wind speed m/s

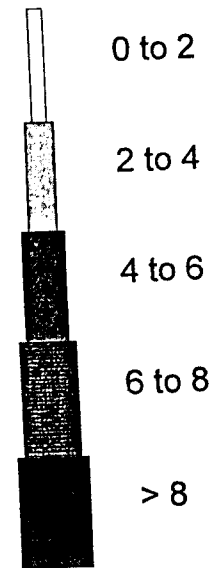
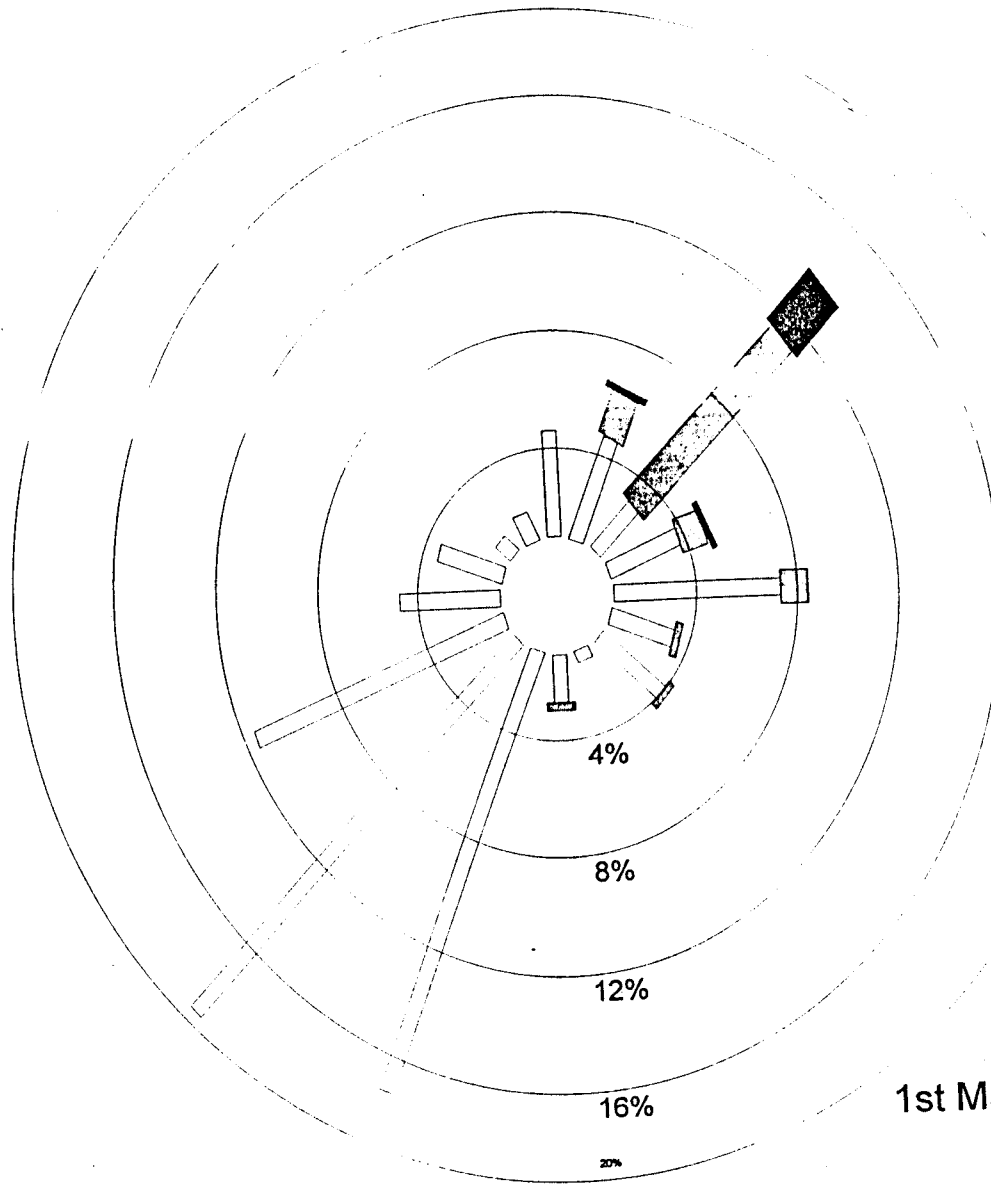


1st February 1997 to 28th February 1997  
(From 1 to 24 Hours)



# Peechi-Vazhani WLS

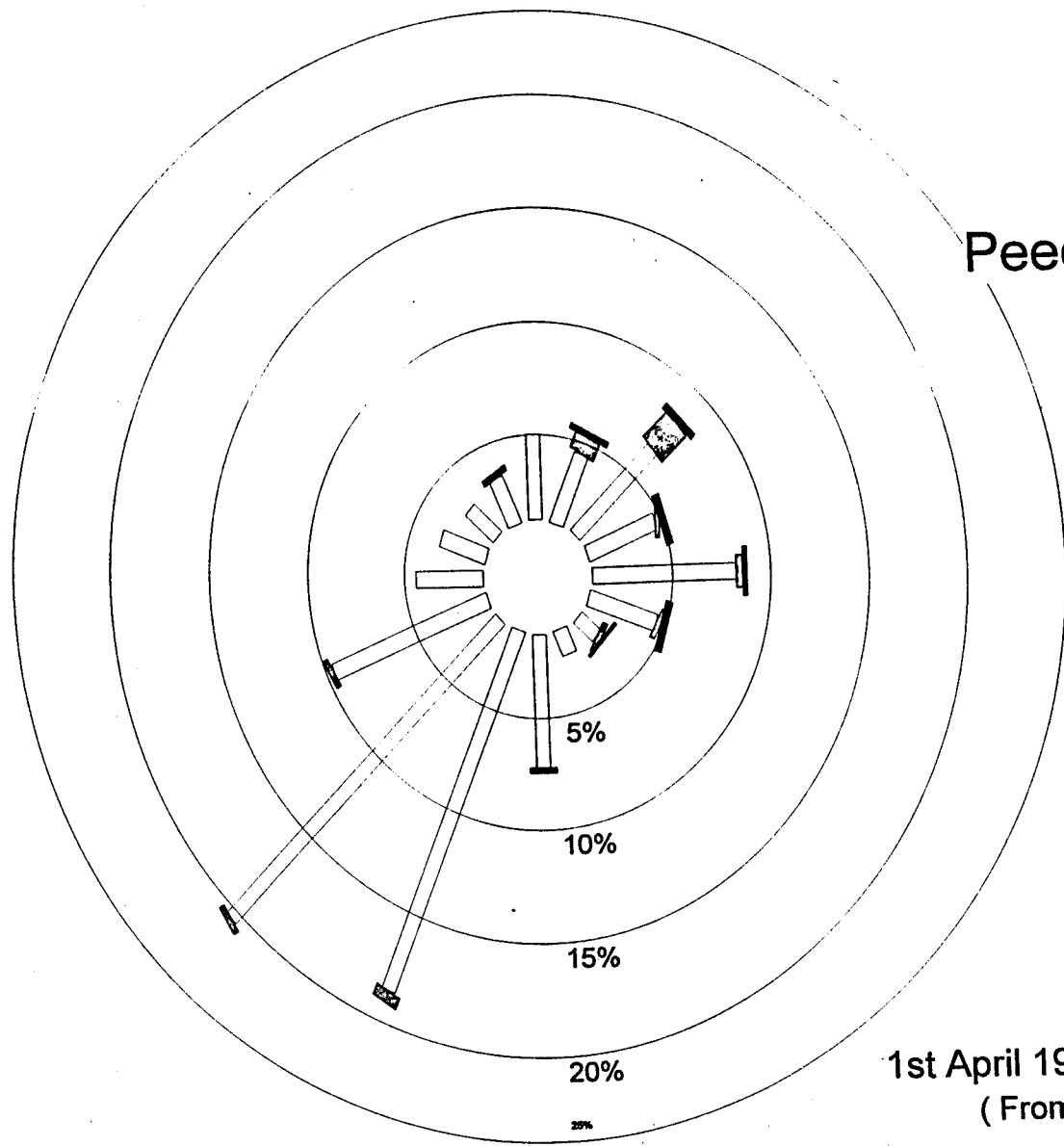
Wind speed m/s



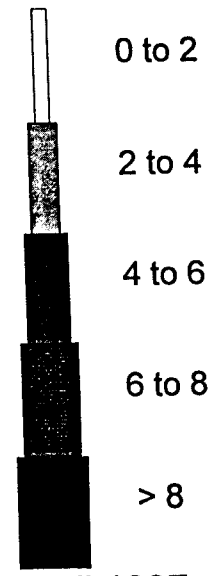
1st March 1997 to 31st March 1997  
( From 1 to 24 Hours )



# Peechi-Vazhani WLS



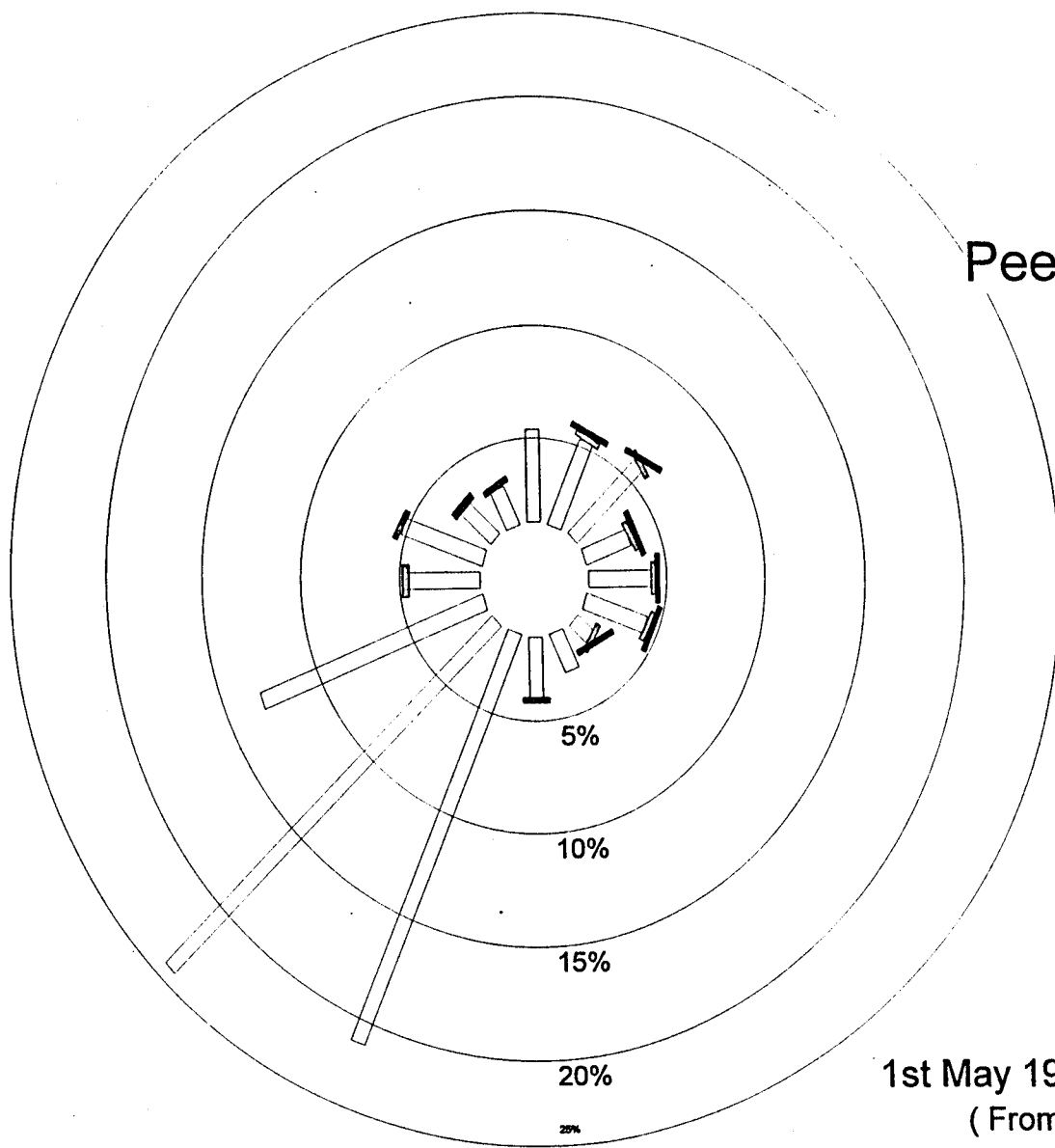
Wind speed m/s



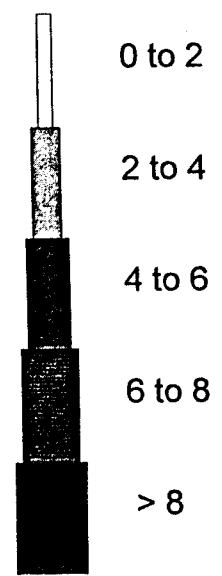
1st April 1997 to 30th April 1997  
( From 1 to 24 Hours )



# Peechi-Vazhani WLS



Wind speed m/s

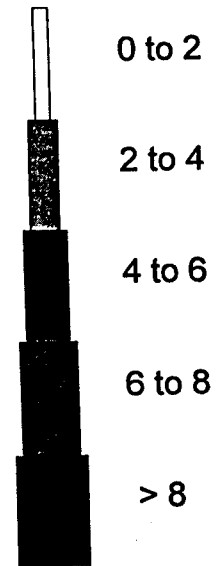
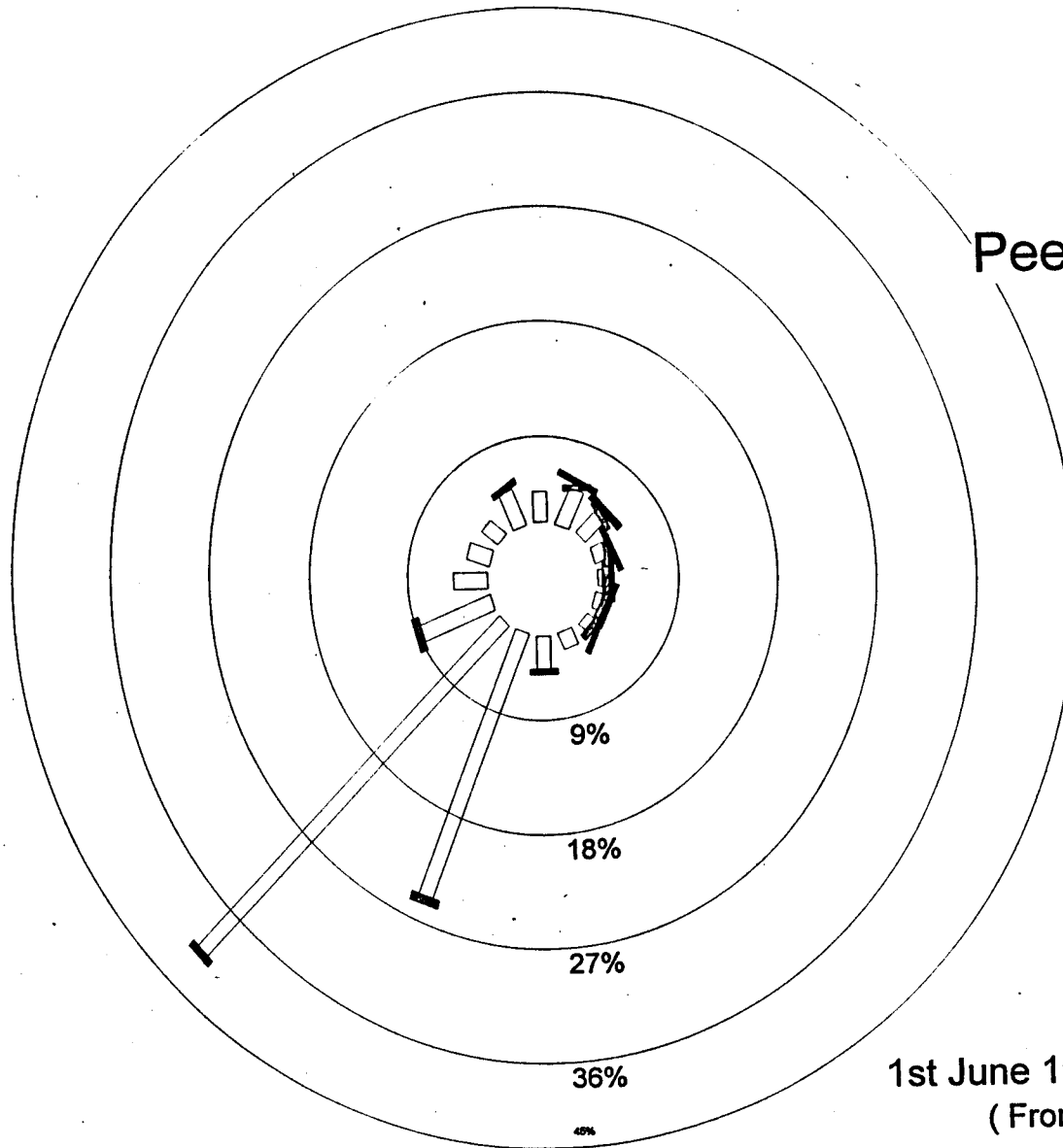


1st May 1997 to 31st May 1997  
( From 1 to 24 Hours )



# Peechi-Vazhani WLS

Wind speed m/s

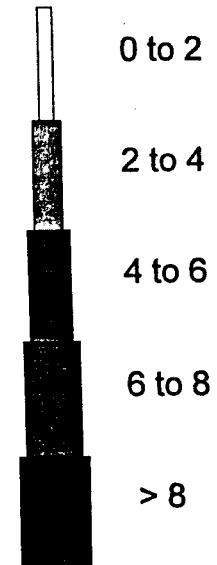
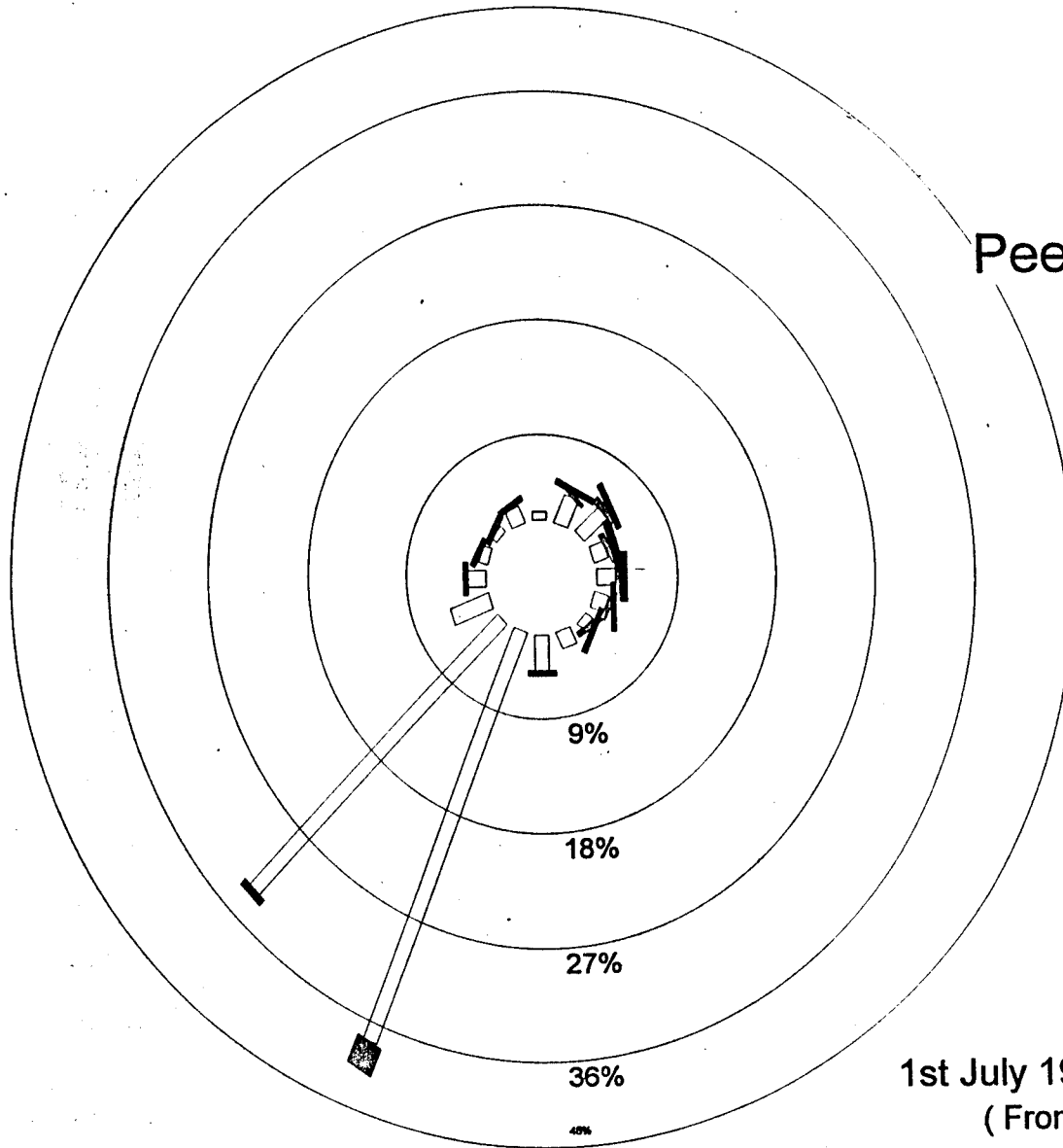


1st June 1997 to 30th June 1997  
( From 1 to 24 Hours )



# Peechi-Vazhani WLS

Wind speed m/s



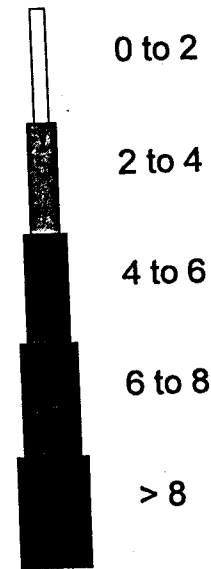
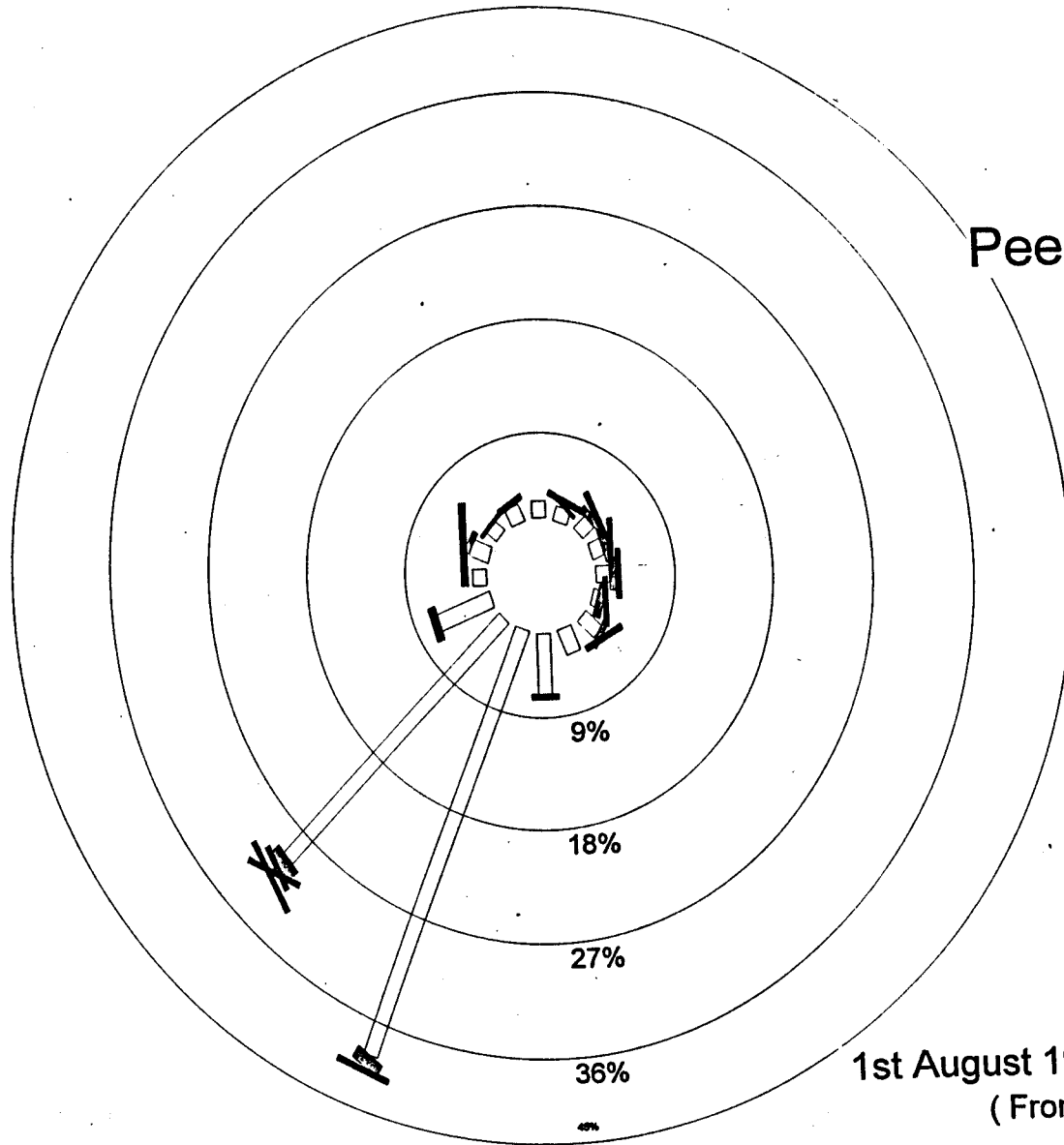
1st July 1997 to 31st July 1997  
(From 1 to 24 Hours)





# Peechi-Vazhani WLS

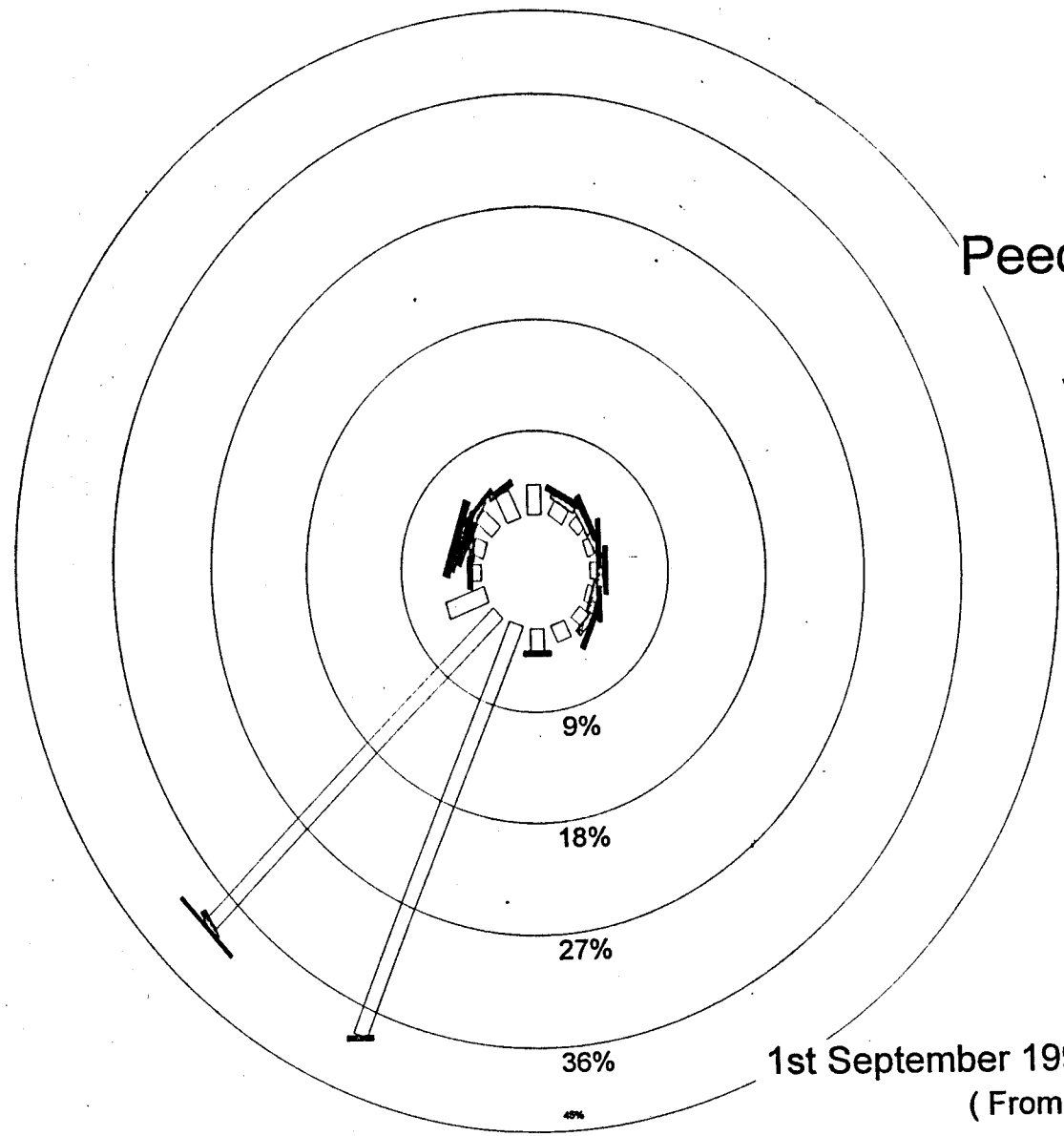
Wind speed m/s



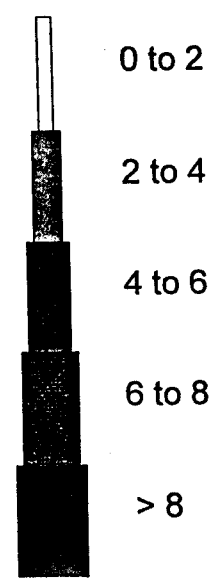
1st August 1997 to 31st August 1997  
( From 1 to 24 Hours )



# Peechi-Vazhani WLS



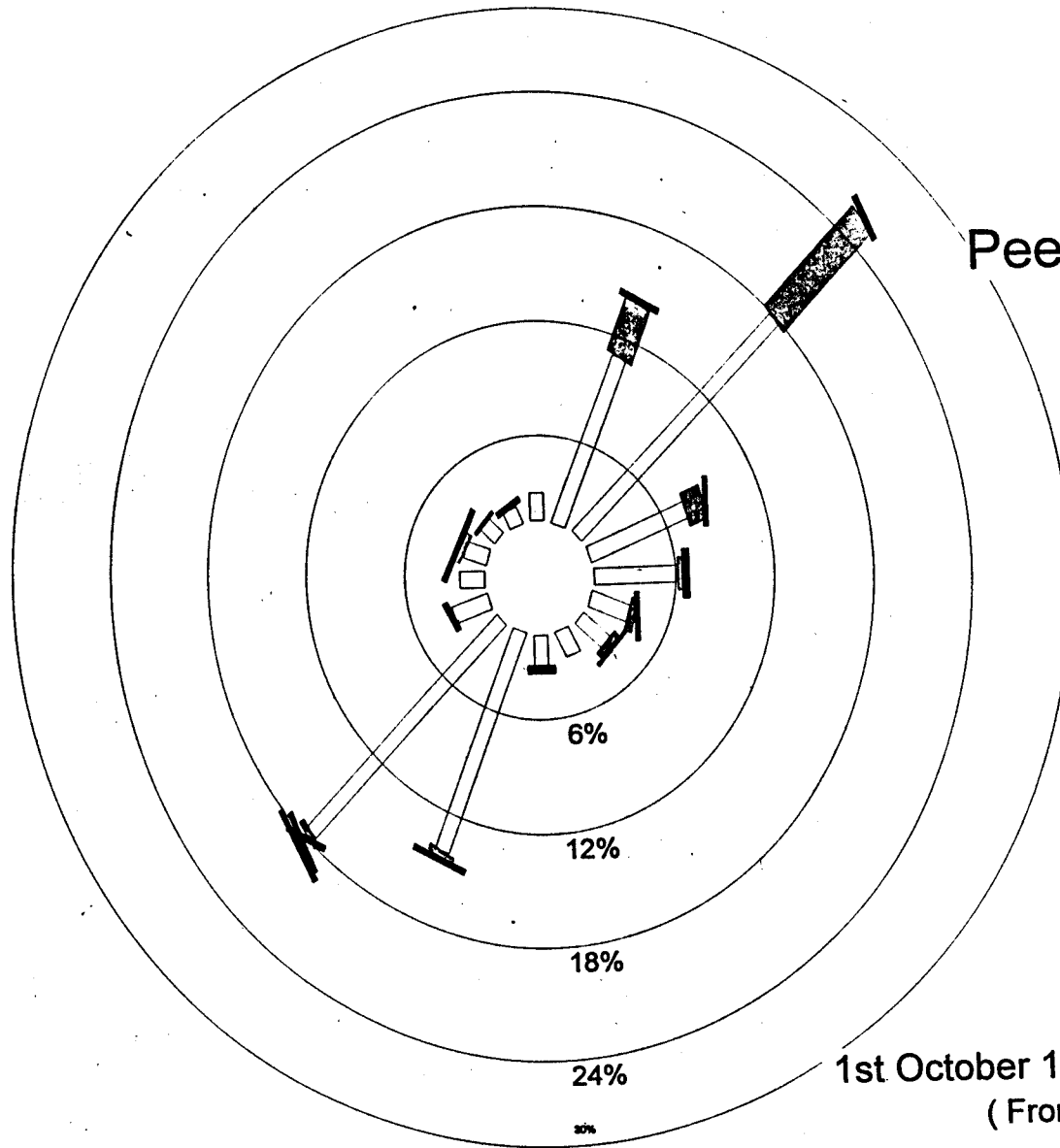
Wind speed m/s



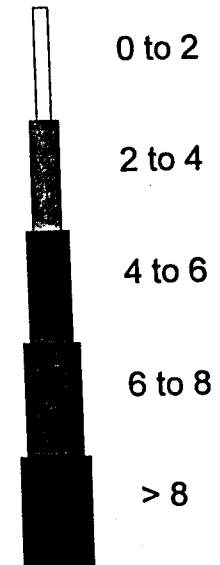
1st September 1997 to 30th September 1997  
(From 1 to 24 Hours)



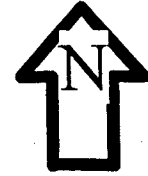
# Peechi-Vazhani WLS



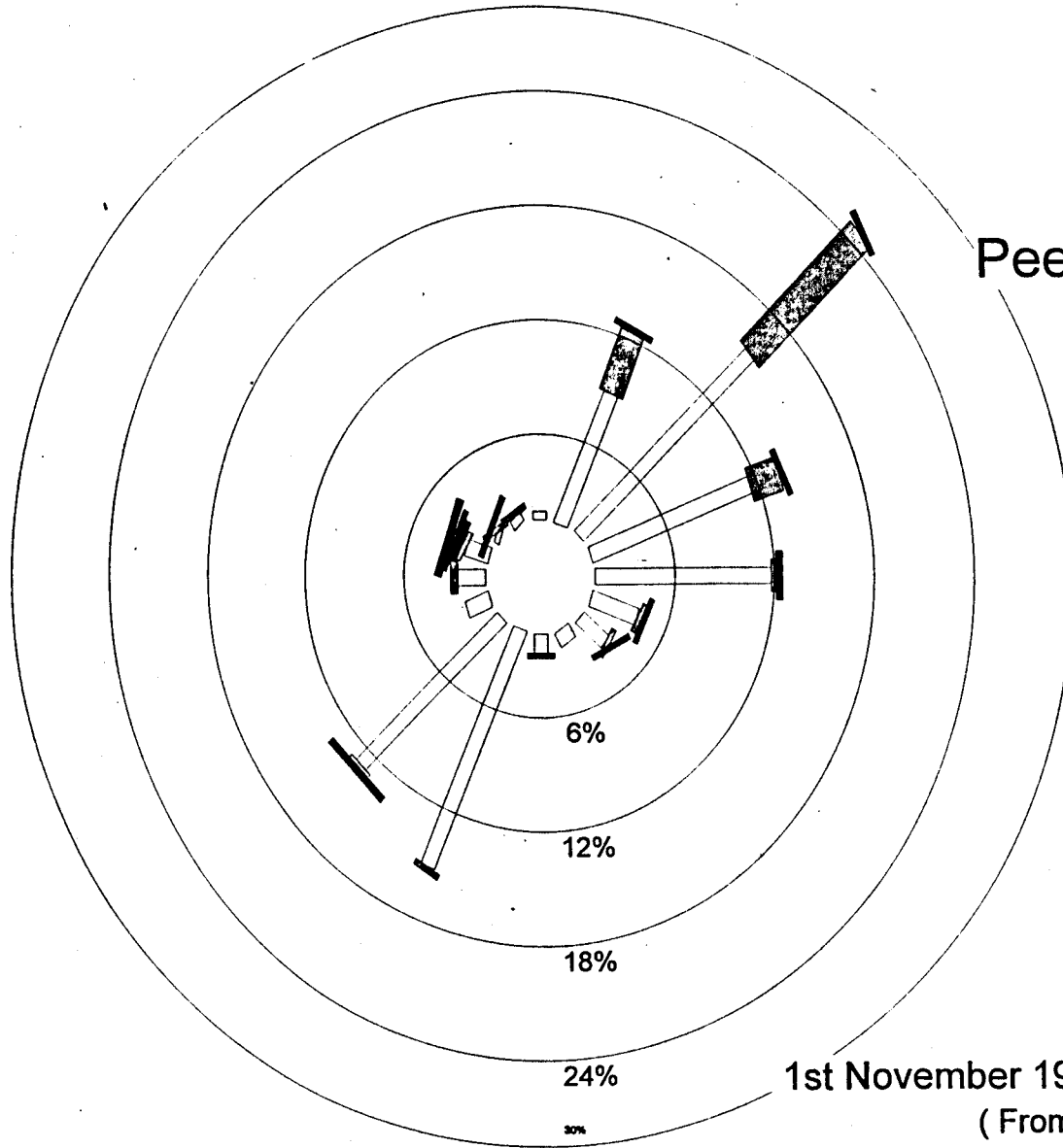
Wind speed m/s



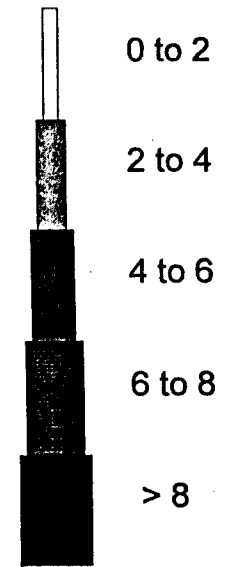
1st October 1997 to 31st October 1997  
( From 1 to 24 Hours )



# Peechi-Vazhani WLS



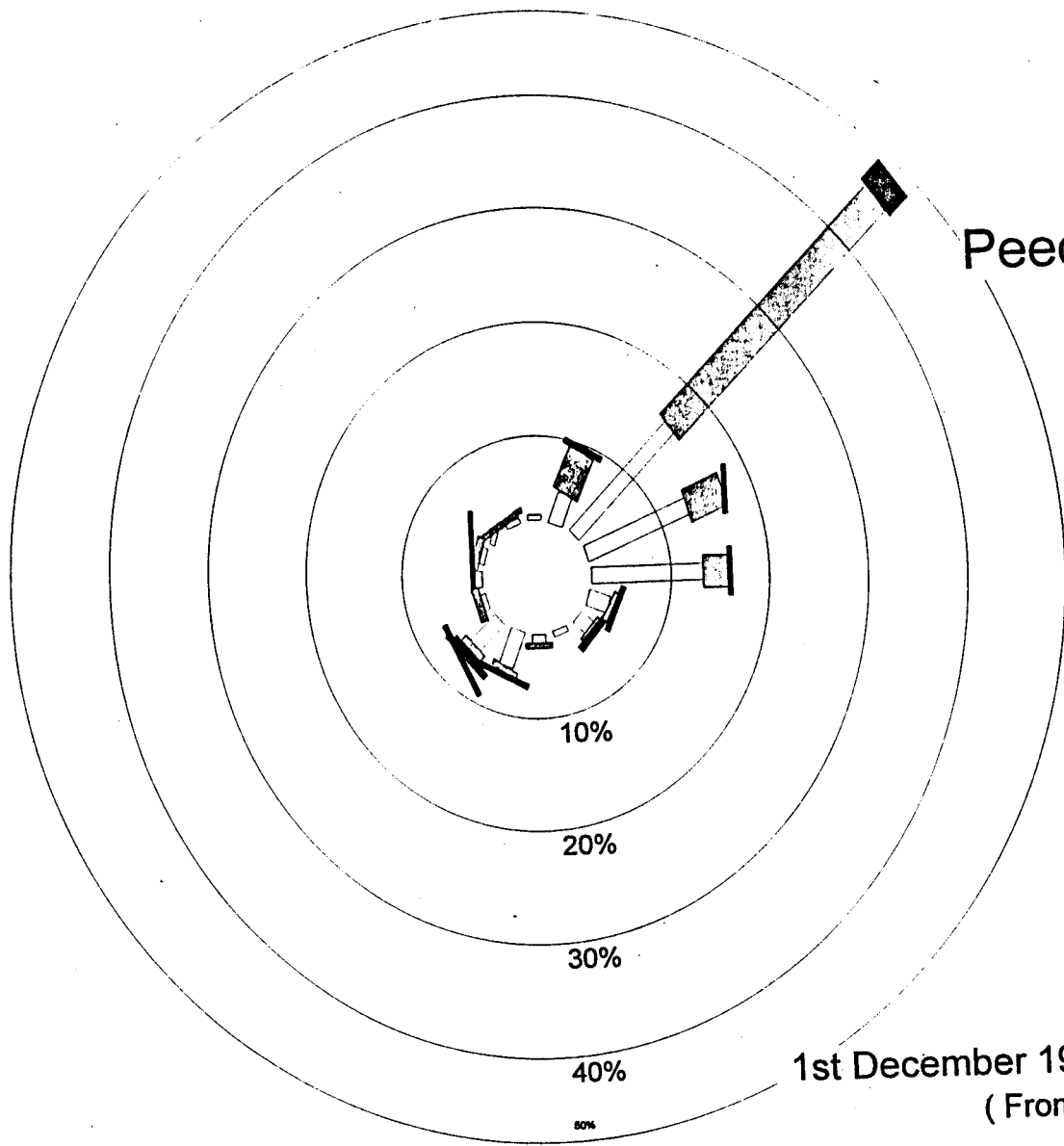
Wind speed m/s



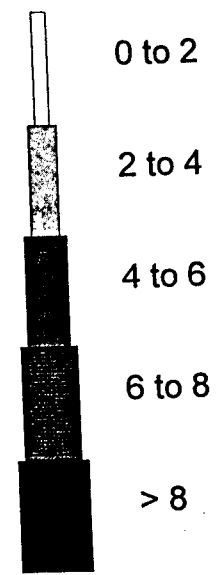
1st November 1997 to 30th November 1997  
( From 1 to 24 Hours )



# Peechi-Vazhani WLS



Wind speed m/s

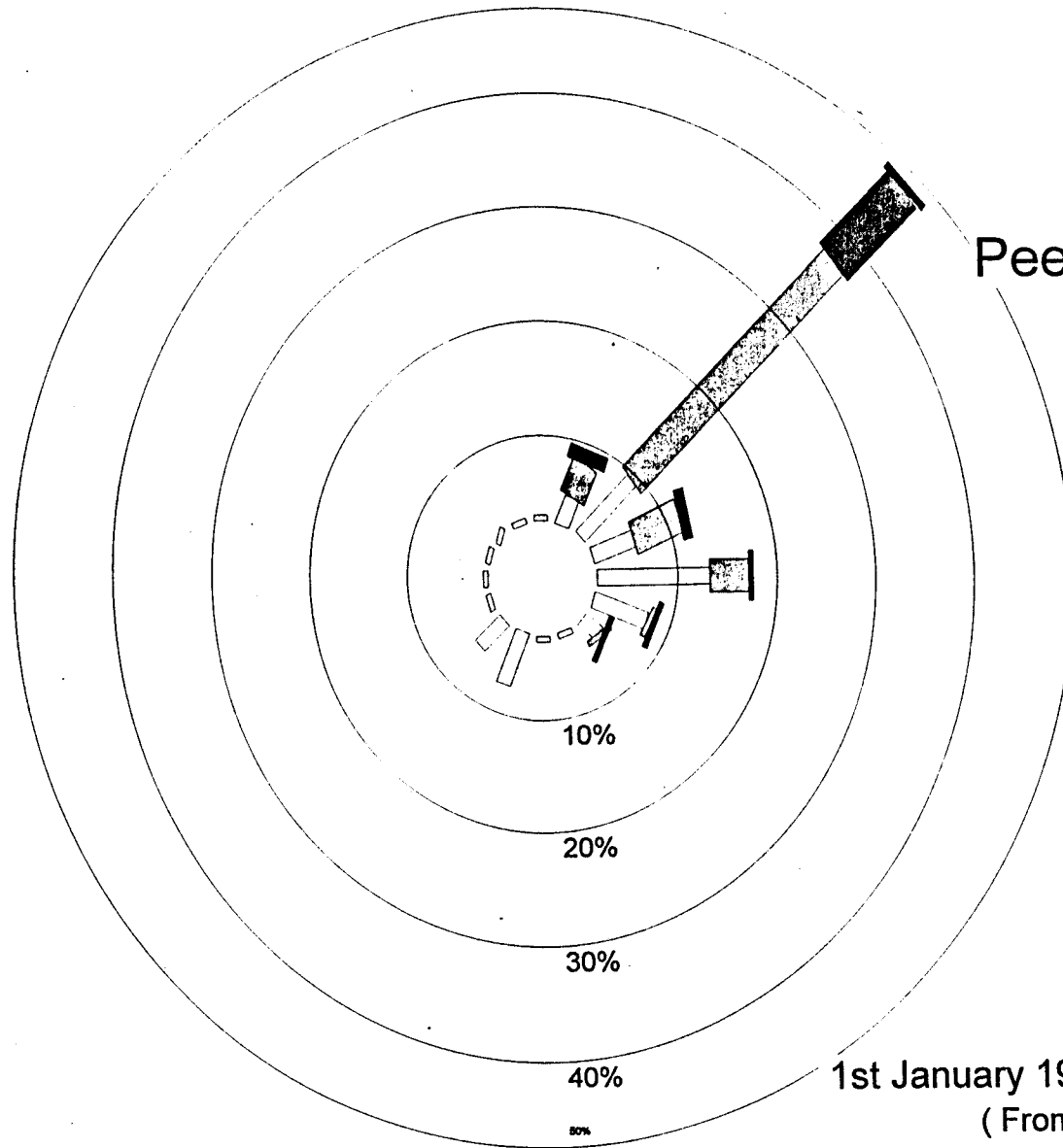


1st December 1997 to 31st December 1997  
( From 1 to 24 Hours )



# Peechi-Vazhani WLS

Wind speed m/s



0 to 2

2 to 4

4 to 6

6 to 8

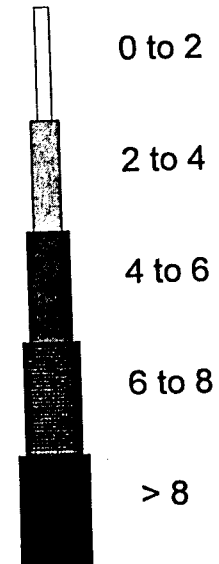
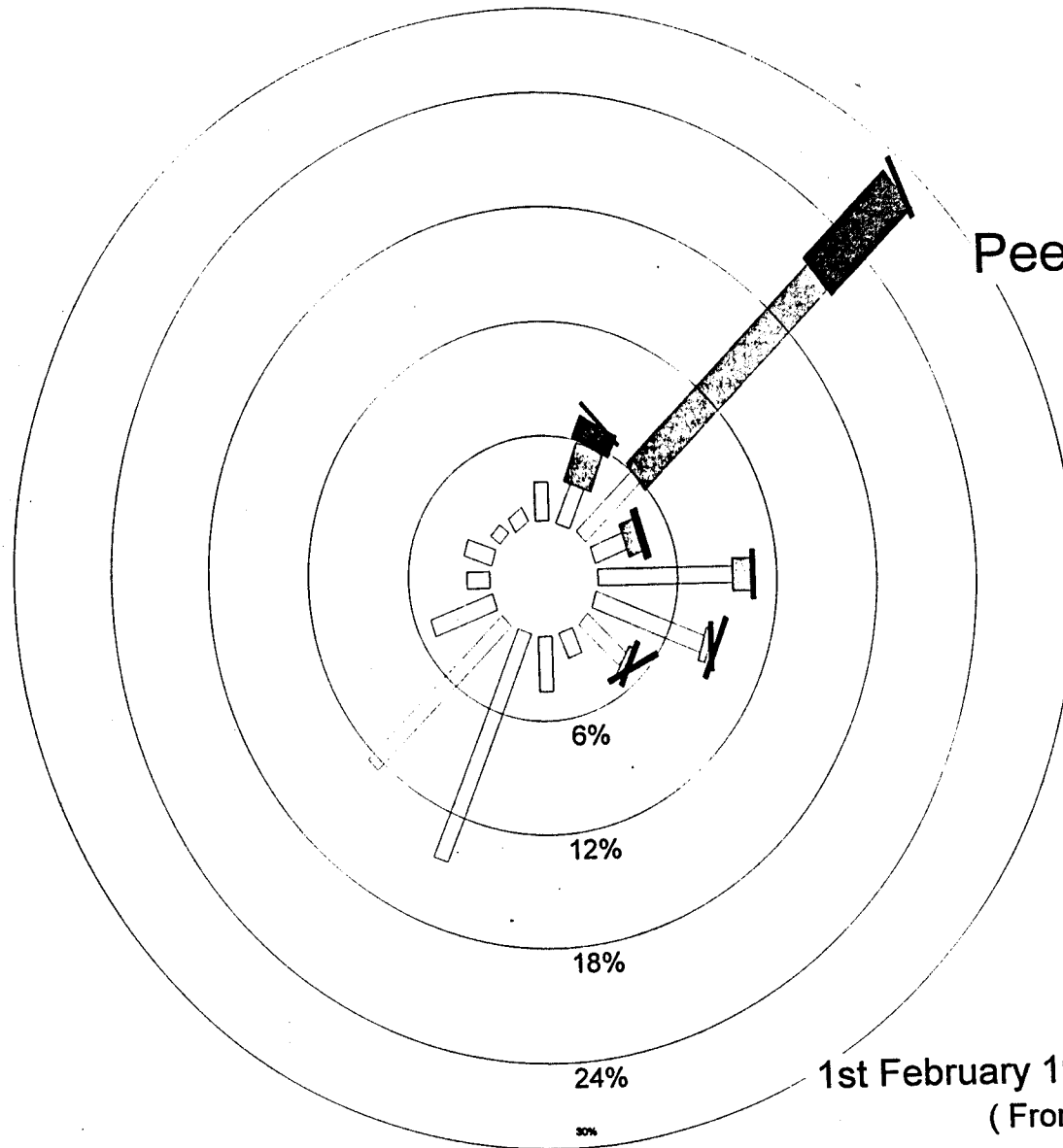
> 8

1st January 1998 to 31st January 1998  
( From 1 to 24 Hours )



# Peechi-Vazhani WLS

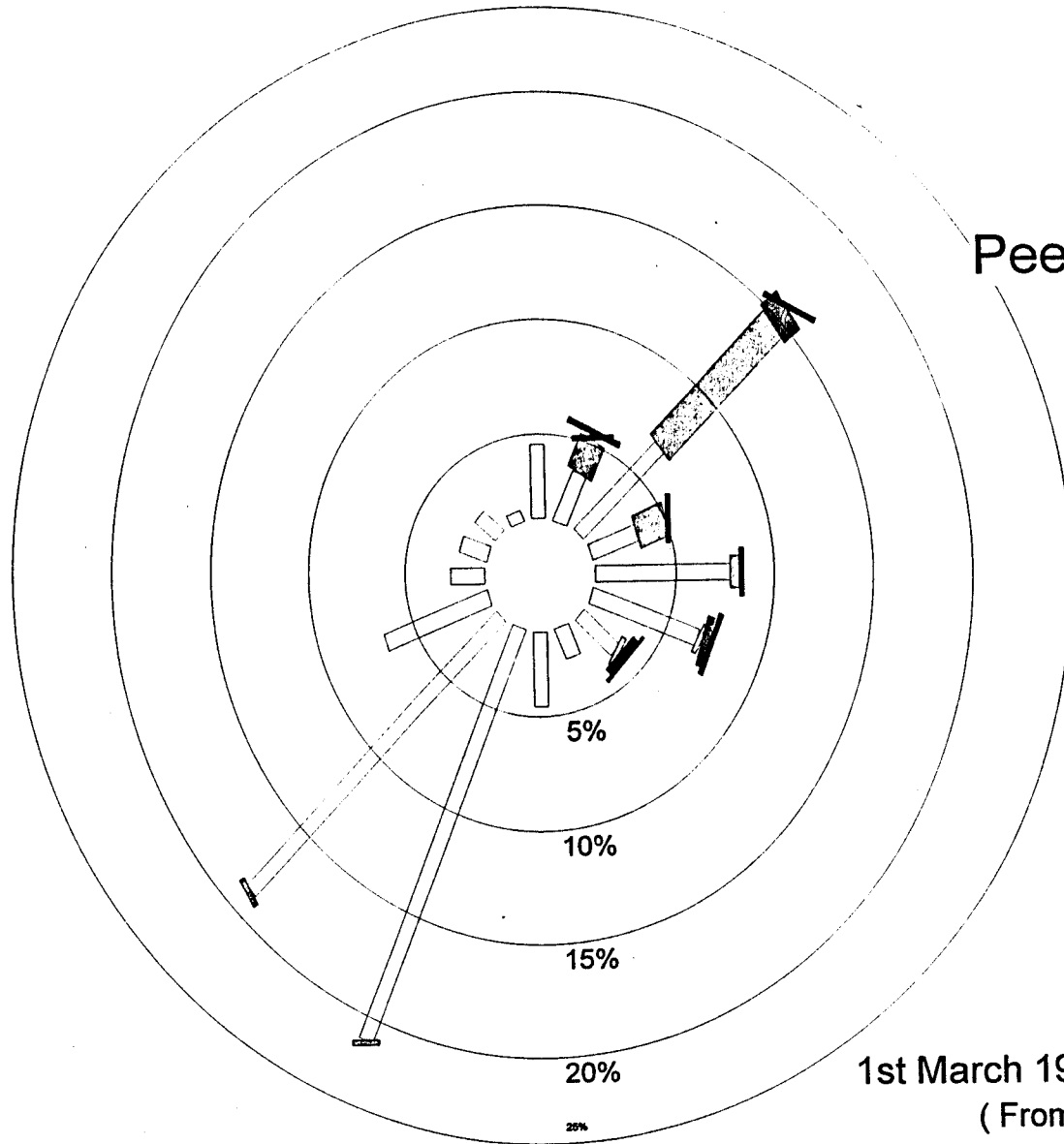
Wind speed m/s



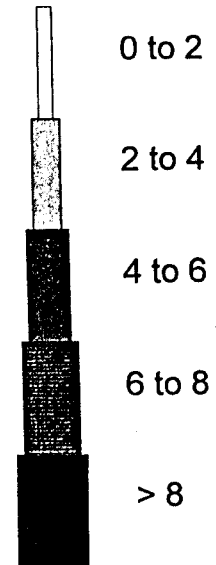
1st February 1998 to 28th February 1998  
( From 1 to 24 Hours )



# Peechi-Vazhani WLS



Wind speed m/s

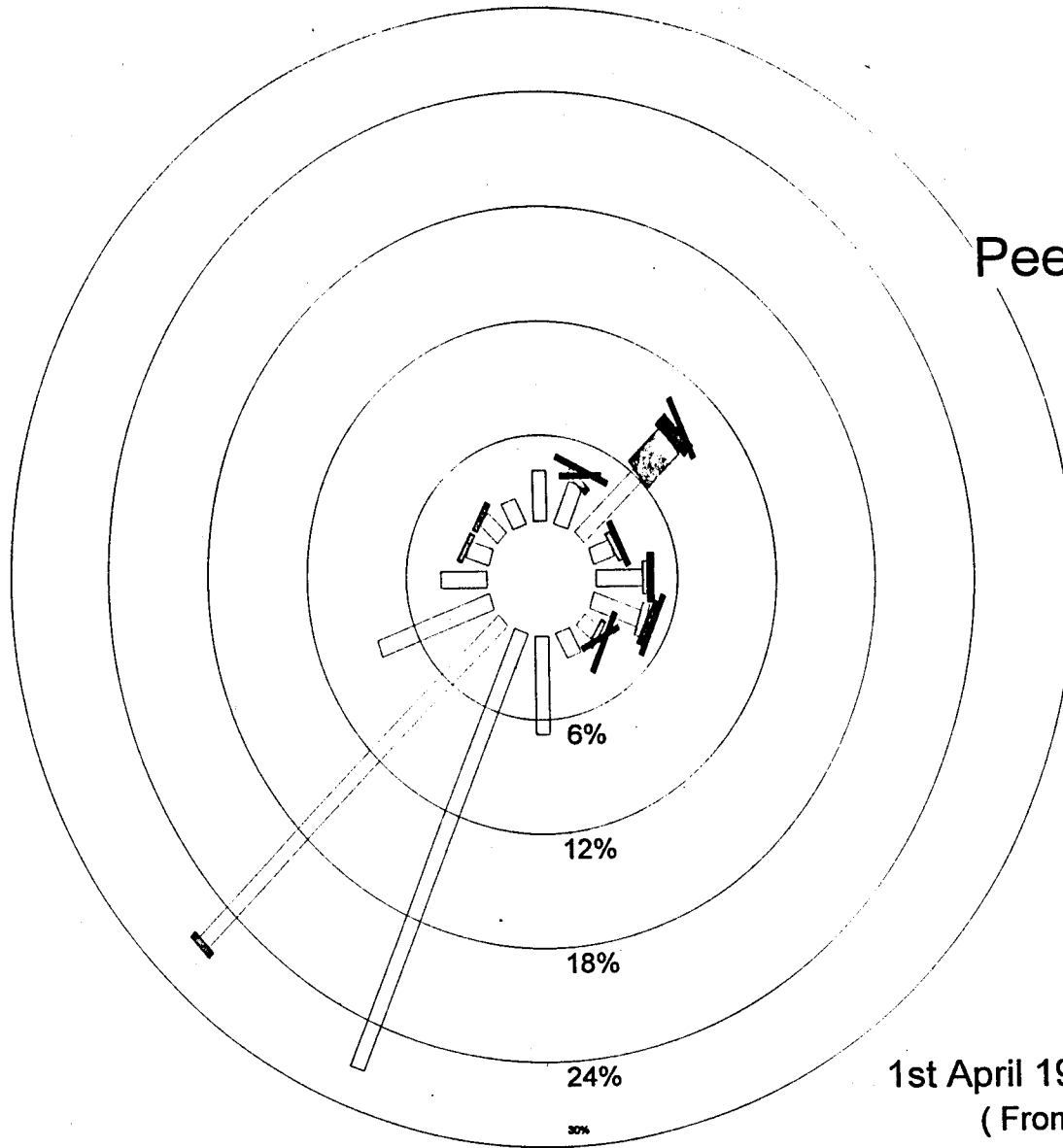


1st March 1998 to 31st March 1998  
( From 1 to 24 Hours )

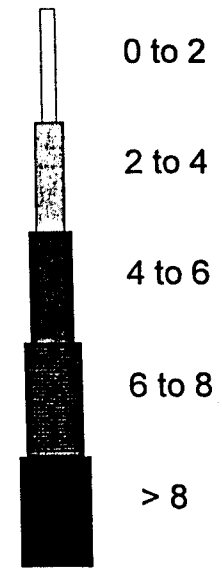




# Peechi-Vazhani WLS



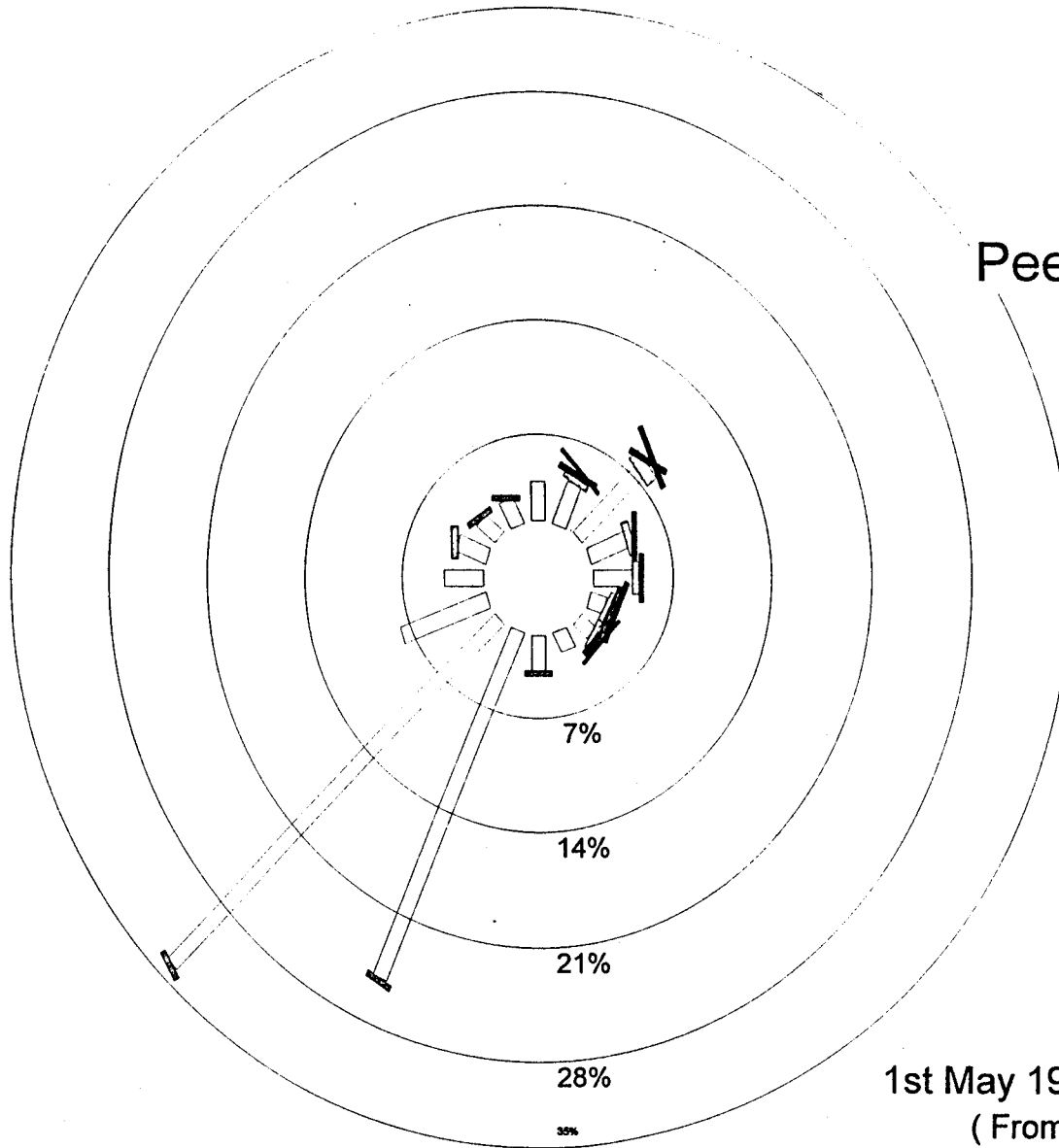
Wind speed m/s



1st April 1998 to 30th April 1998  
( From 1 to 24 Hours )



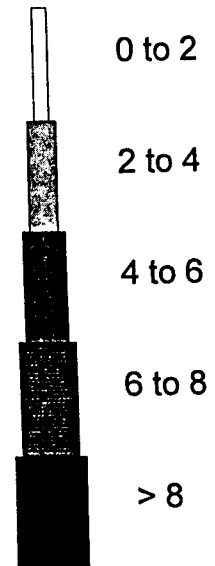
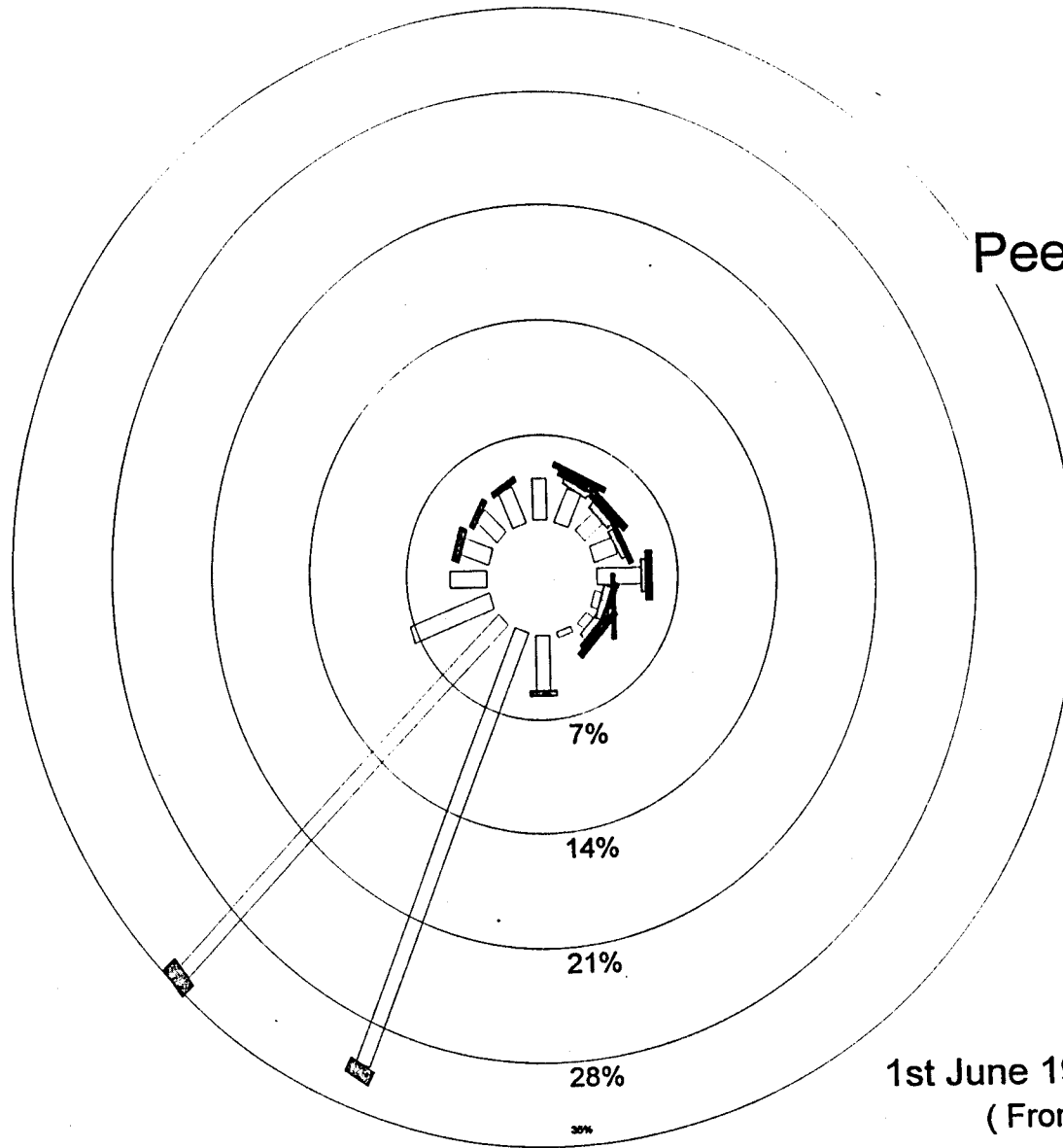
# Peechi-Vazhani WLS





# Peechi-Vazhani WLS

Wind speed m/s

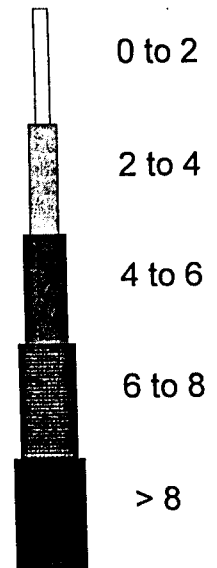
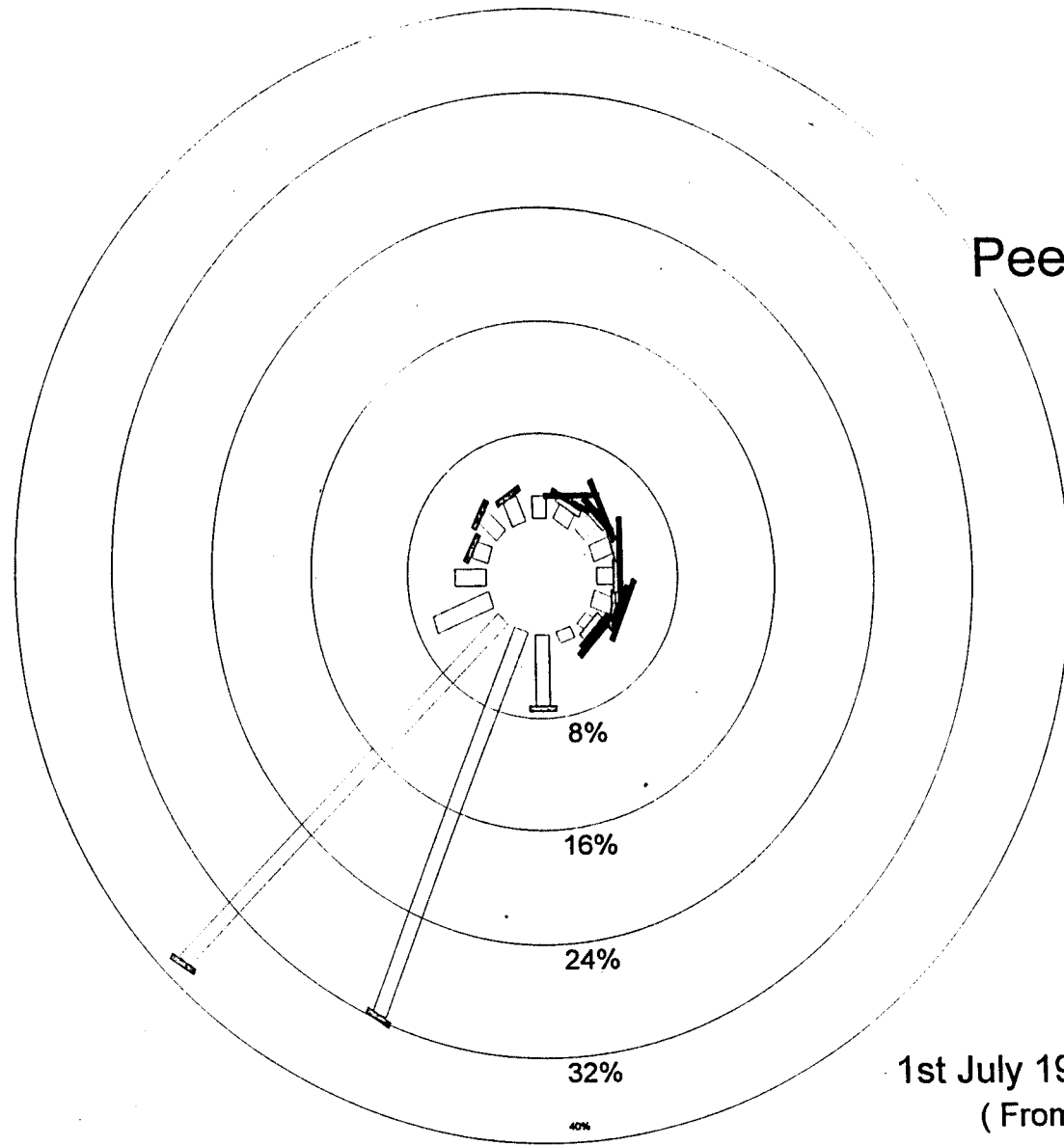


1st June 1998 to 30th June 1998  
( From 1 to 24 Hours )



# Peechi-Vazhani WLS

Wind speed m/s

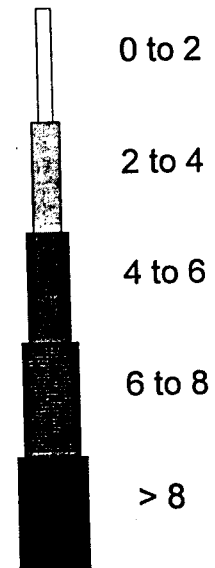
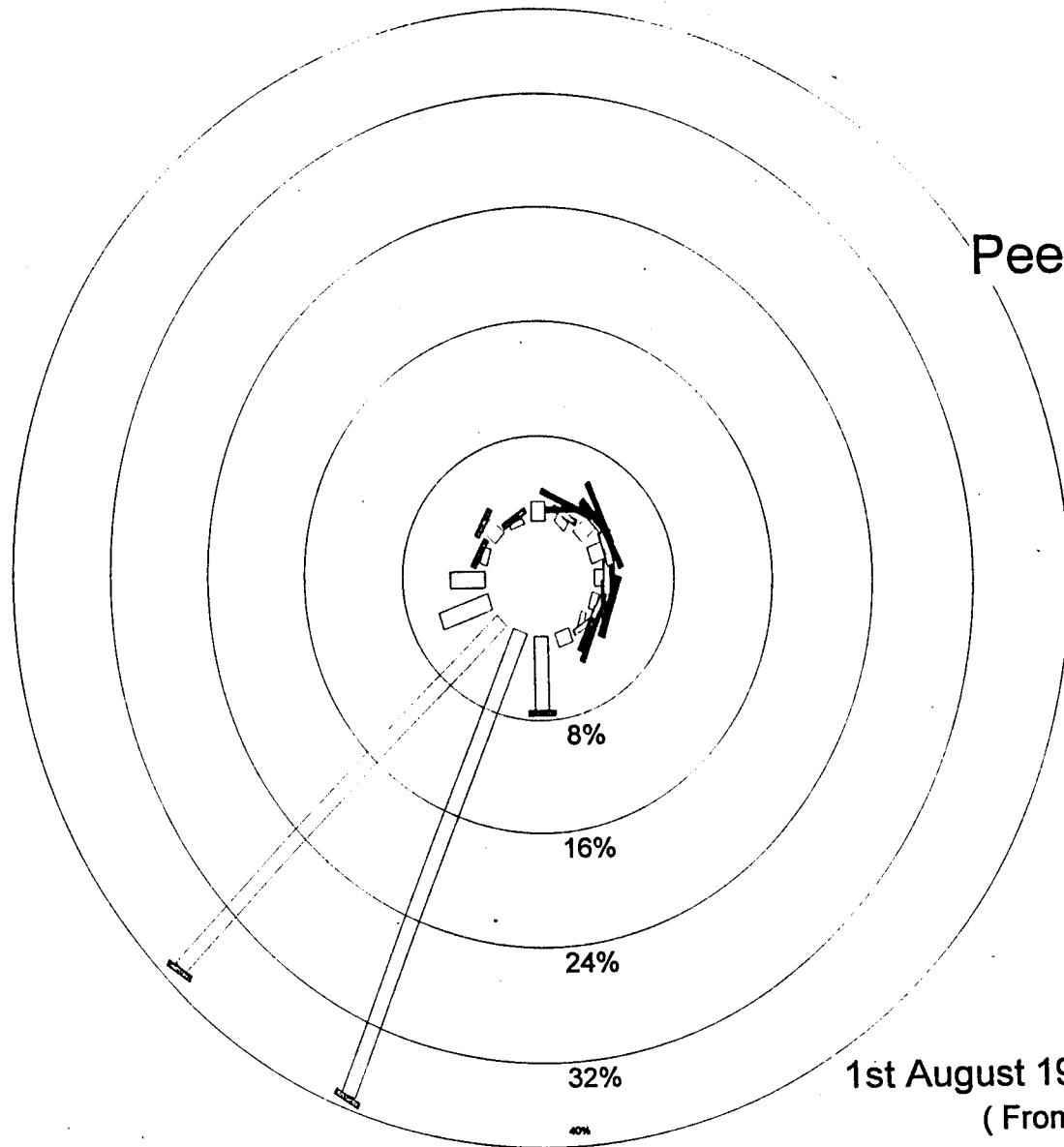


1st July 1998 to 31st July 1998  
( From 1 to 24 Hours )



# Peechi-Vazhani WLS

Wind speed m/s

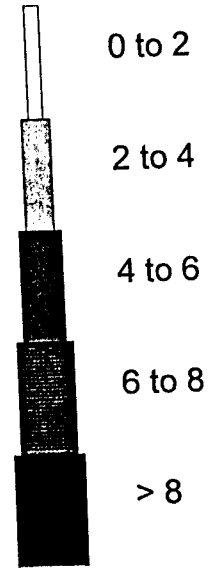
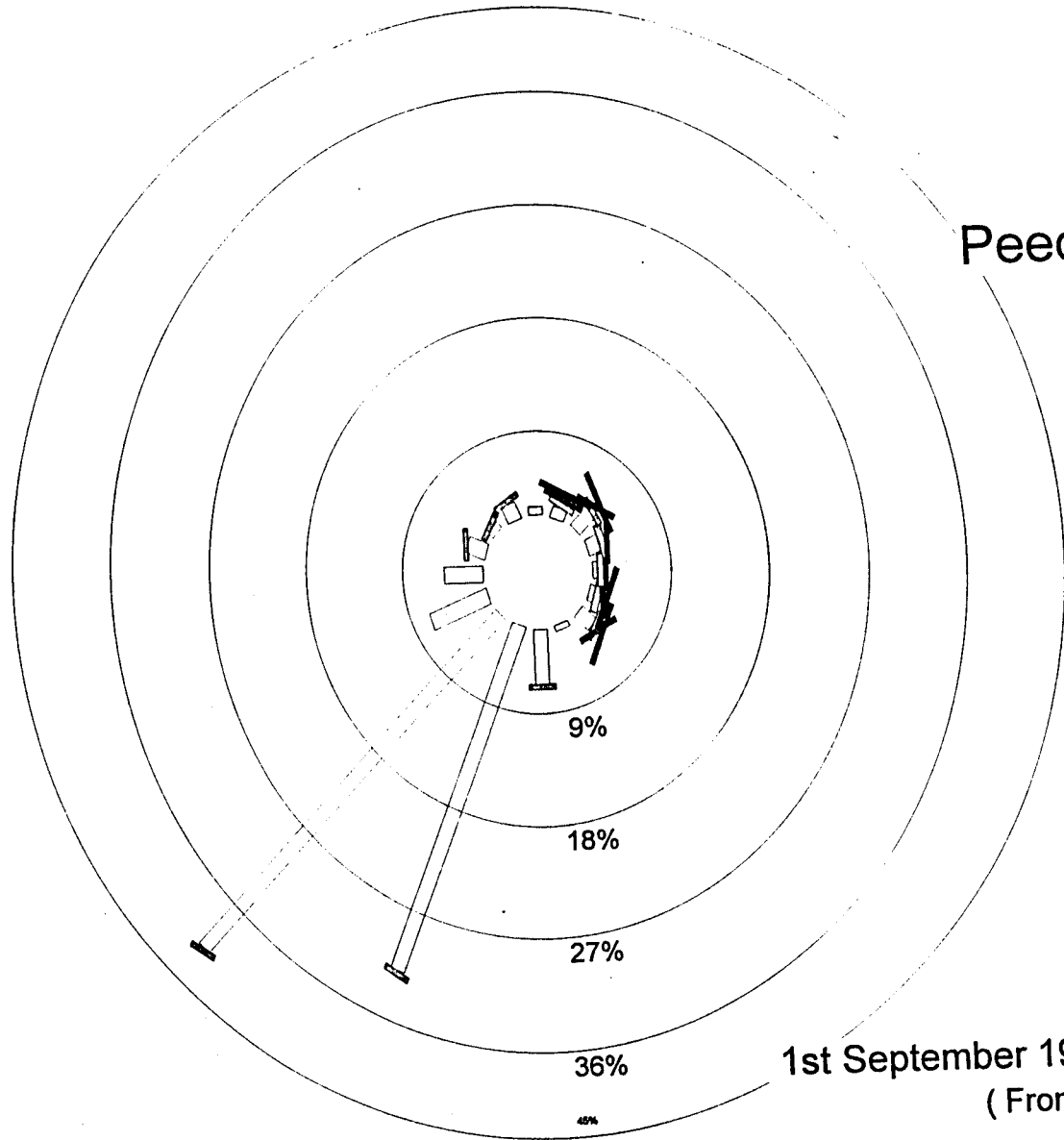


1st August 1998 to 31st August 1998  
( From 1 to 24 Hours )



# Peechi-Vazhani WLS

Wind speed m/s

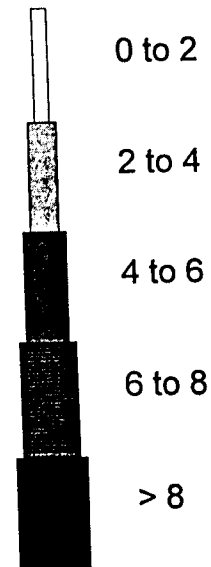
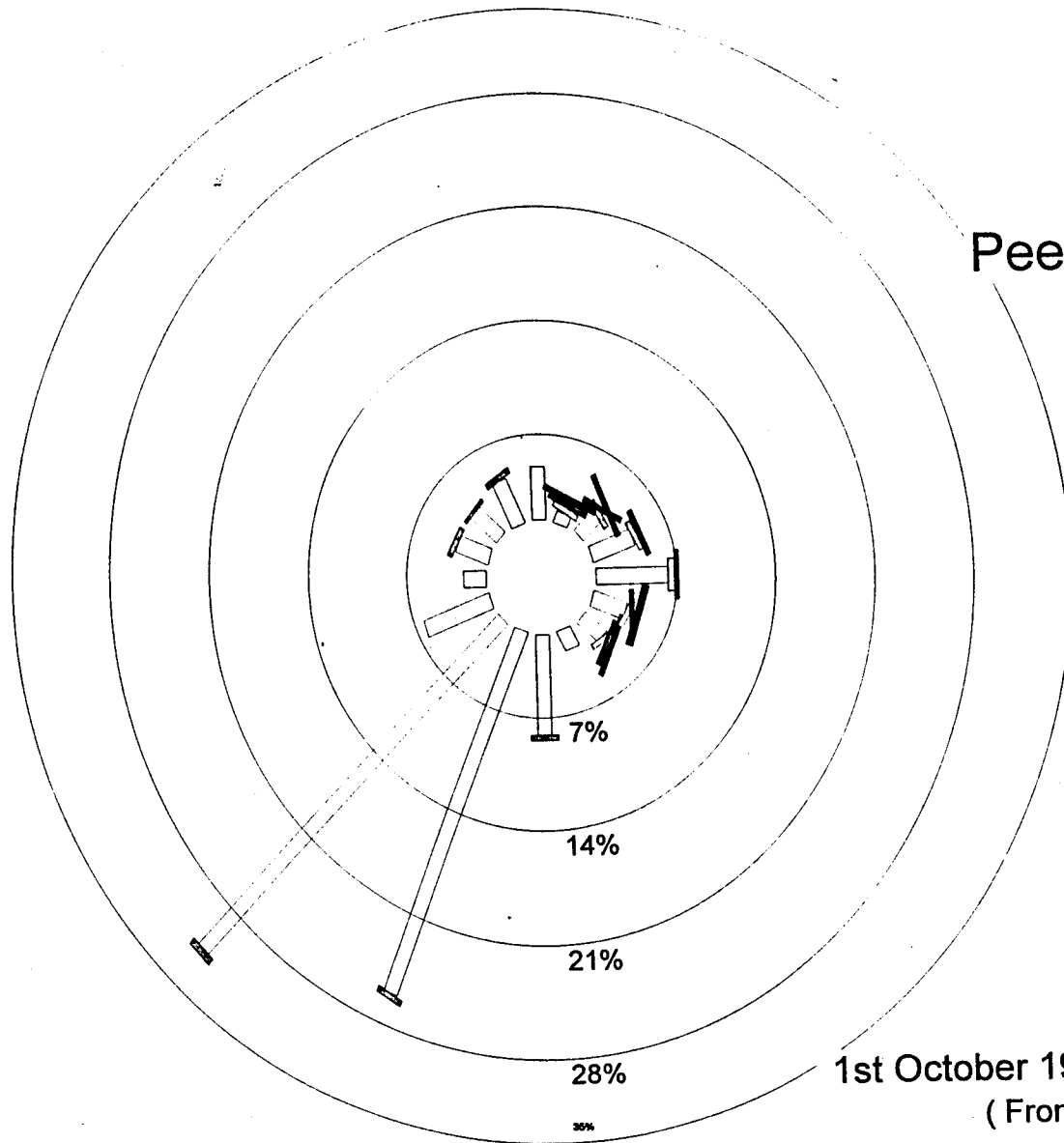


1st September 1998 to 30th September 1998  
( From 1 to 24 Hours )



# Peechi-Vazhani WLS

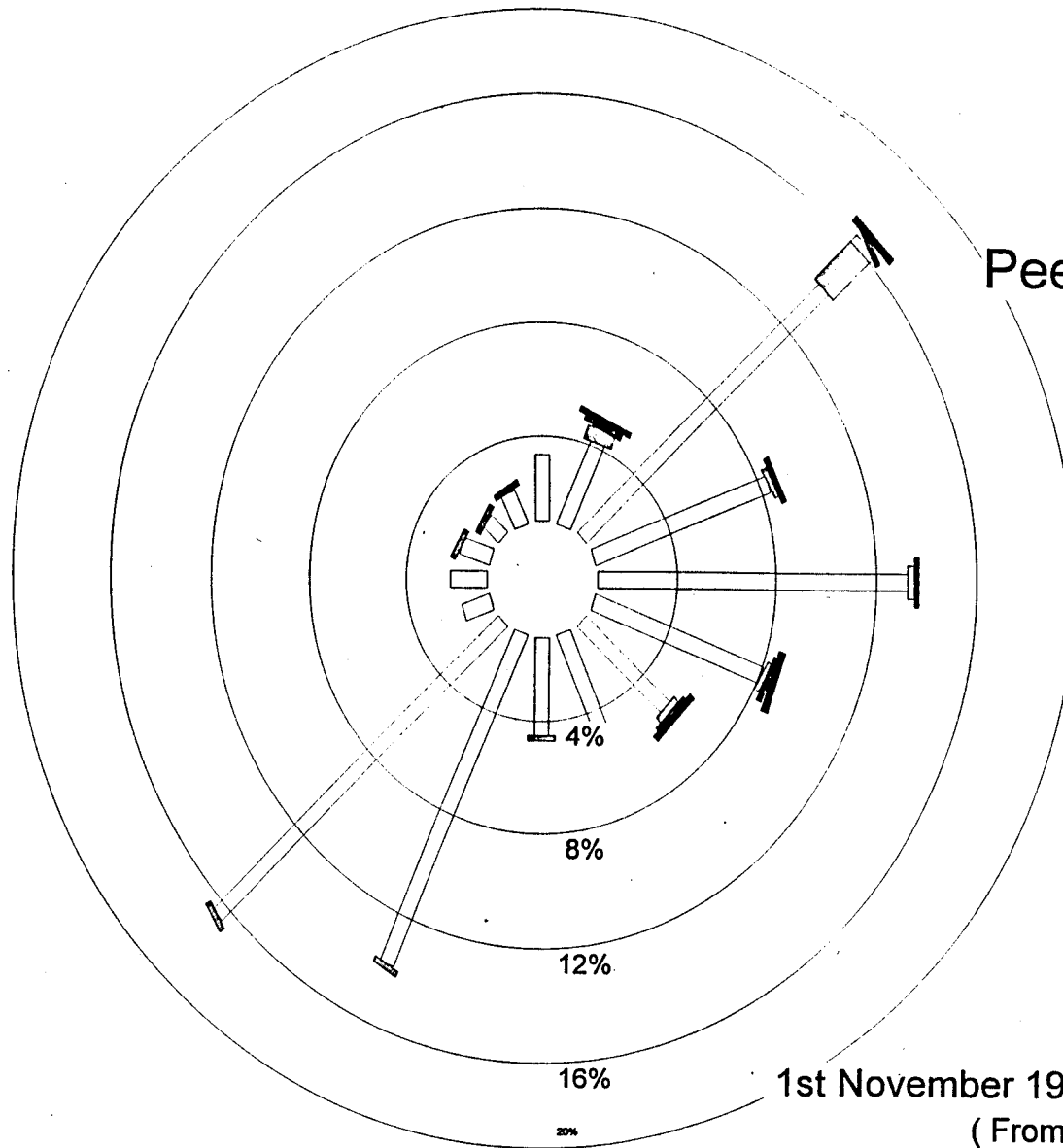
Wind speed m/s



1st October 1998 to 31st October 1998  
( From 1 to 24 Hours )



# Peechi-Vazhani WLS



Wind speed m/s



0 to 2

2 to 4

4 to 6

6 to 8

> 8

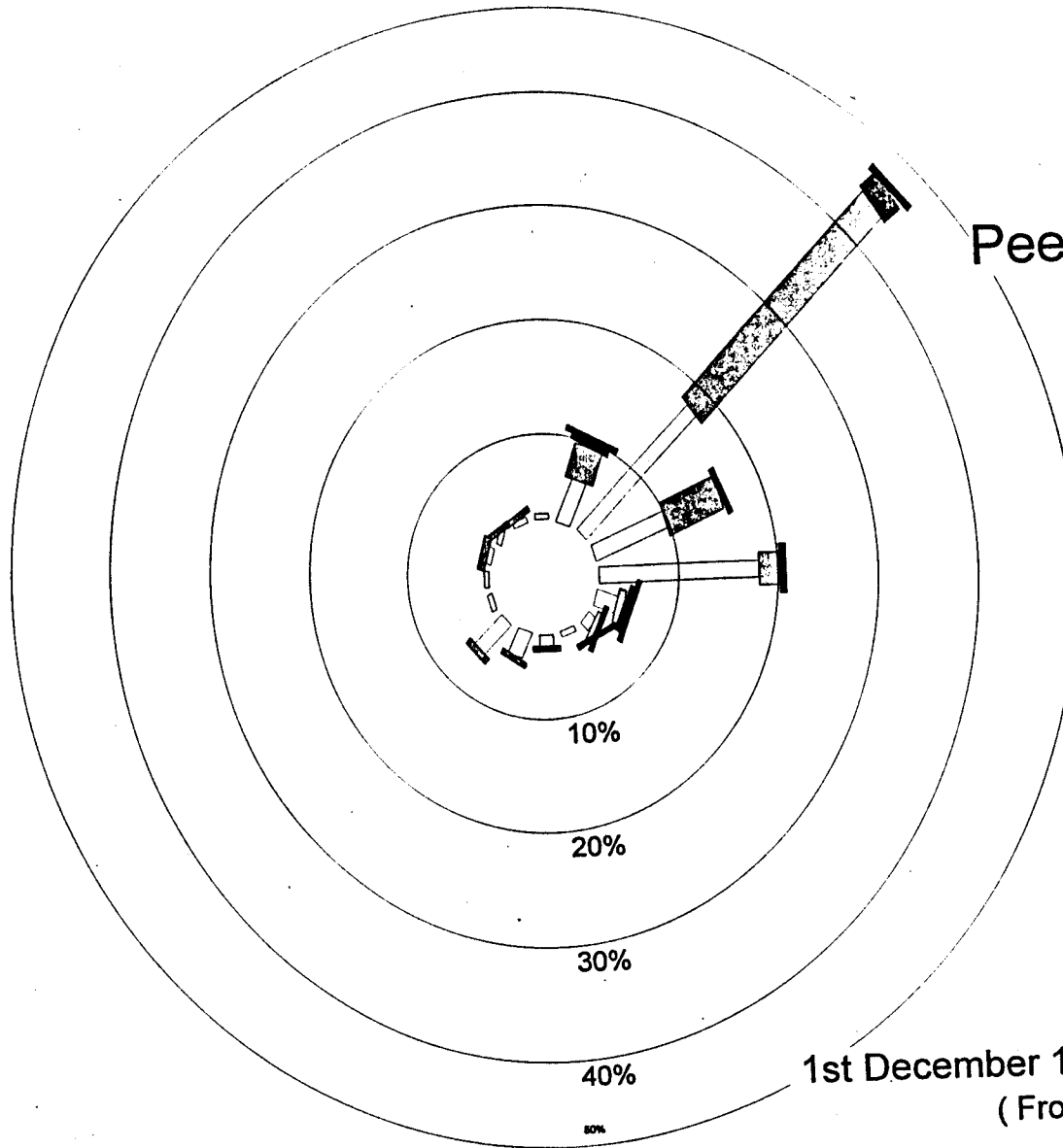
1st November 1998 to 30th November 1998  
( From 1 to 24 Hours )





# Peechi-Vazhani WLS

Wind speed m/s



0 to 2

2 to 4

4 to 6

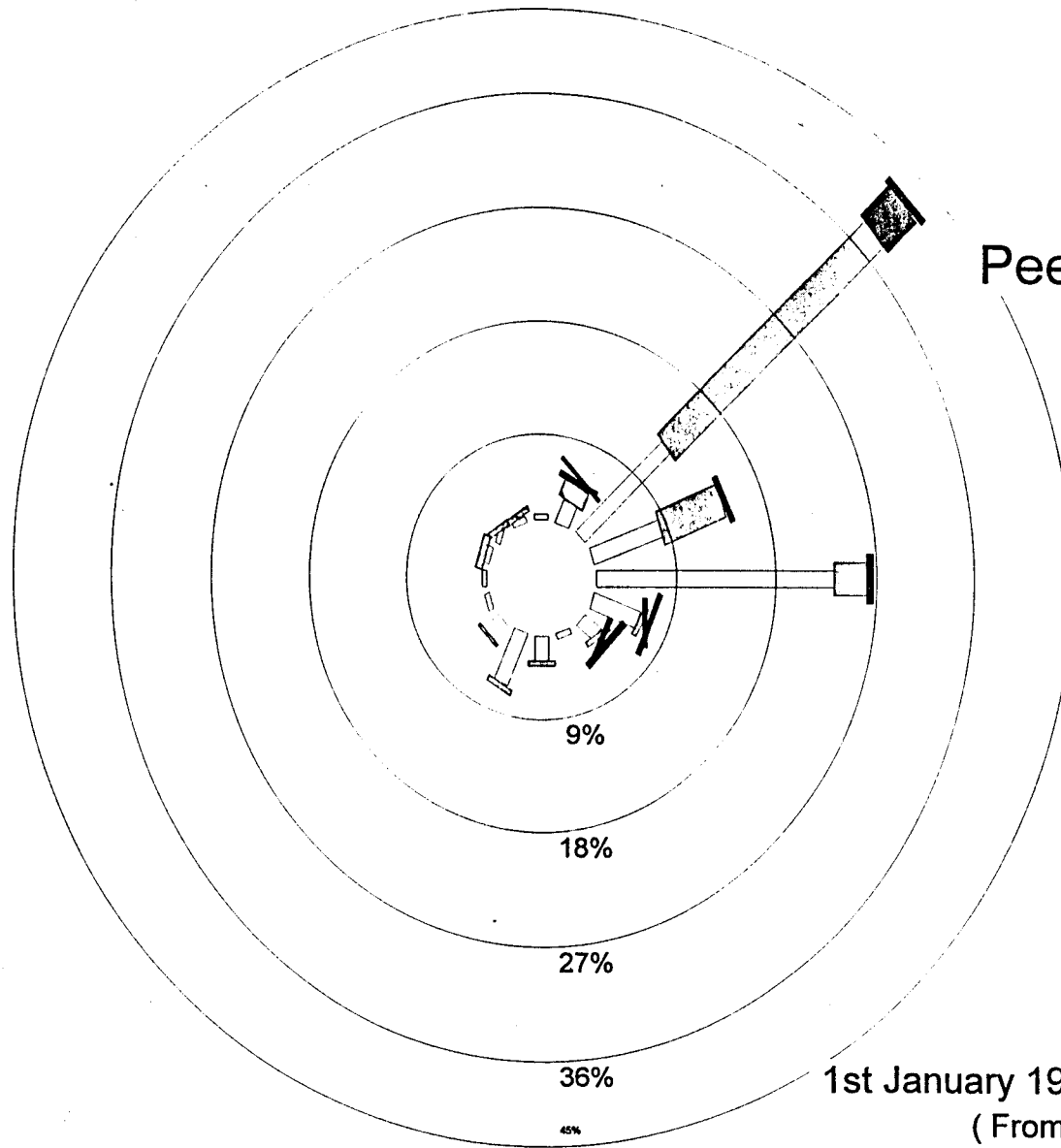
6 to 8

> 8

1st December 1998 to 31st December 1998  
( From 1 to 24 Hours )



# Peechi-Vazhani WLS



Wind speed m/s



0 to 2

2 to 4

4 to 6

6 to 8

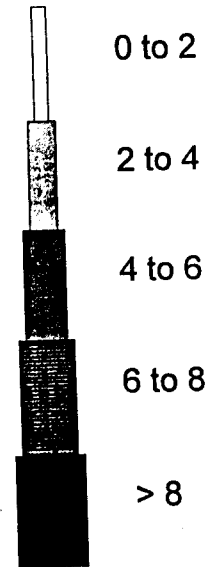
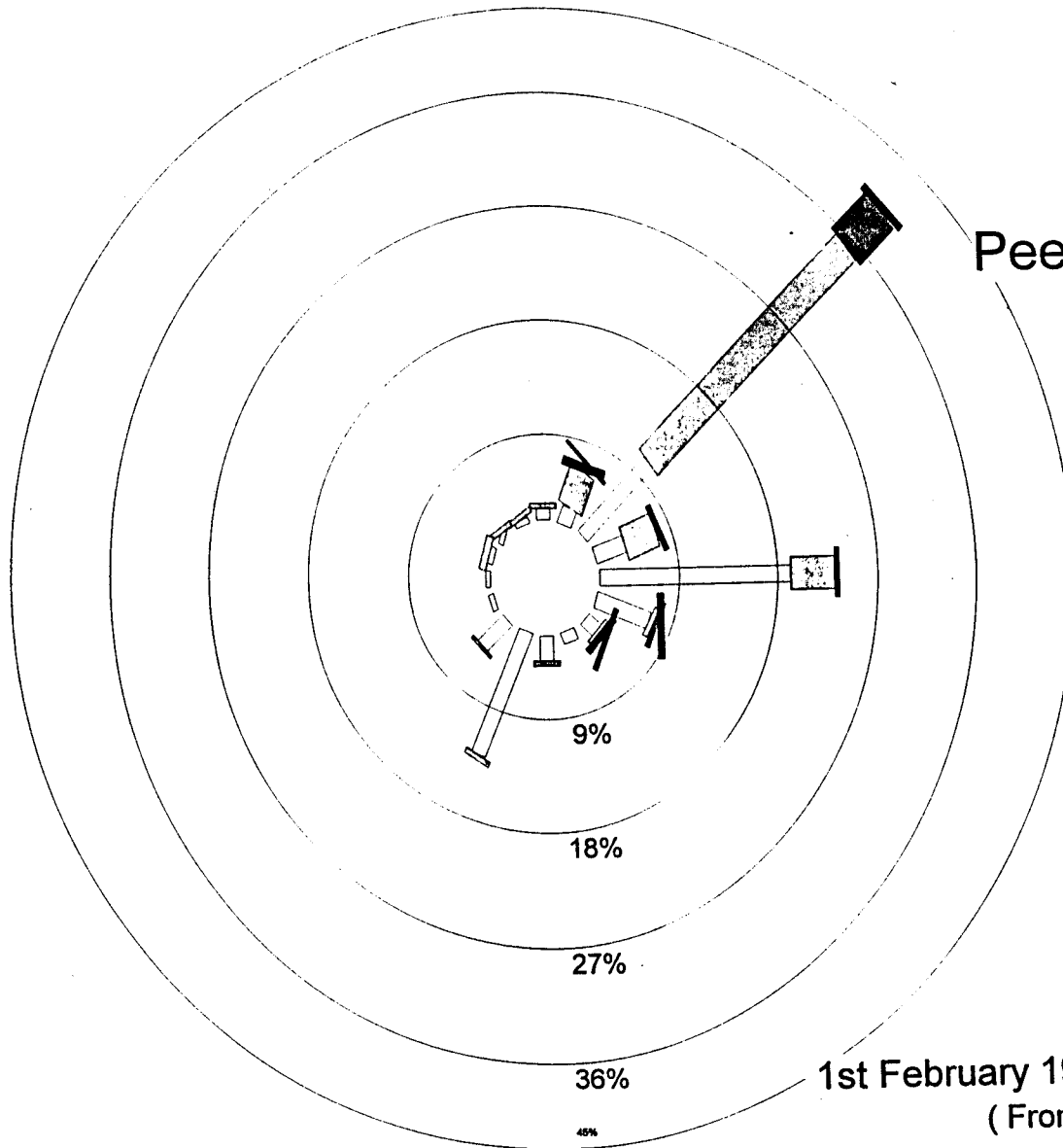
> 8

1st January 1999 to 31st January 1999  
( From 1 to 24 Hours )



# Peechi-Vazhani WLS

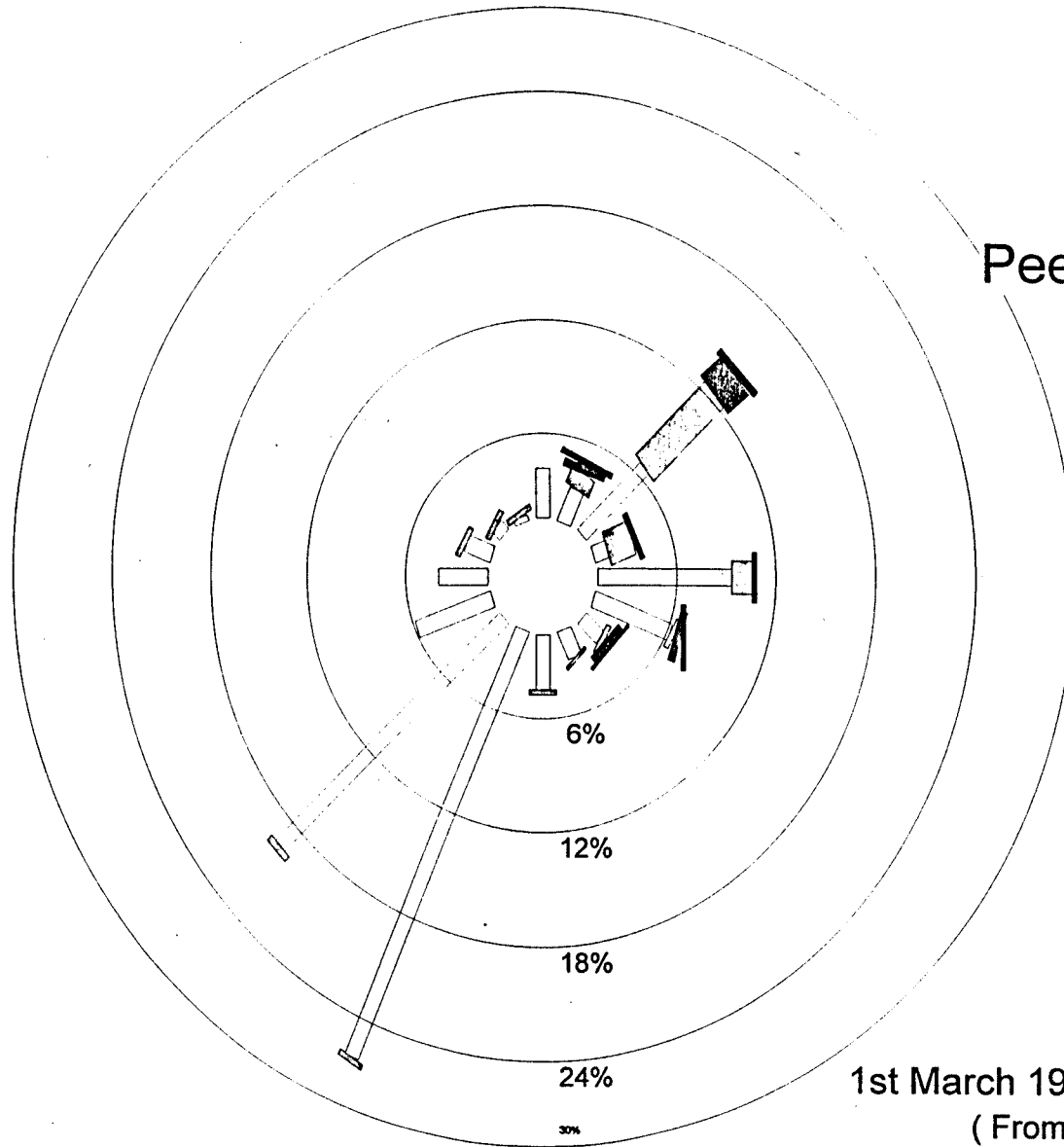
Wind speed m/s



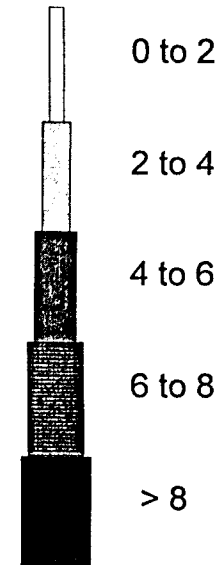
1st February 1999 to 28th February 1999  
( From 1 to 24 Hours )



# Peechi-Vazhani WLS



Wind speed m/s



1st March 1999 to 31st March 1999  
( From 1 to 24 Hours )

## 2. Chinnar Wildlife sanctuary

KERALA FOREST RESEARCH INSTITUTE. DAILY FOREST METEOROLOGICAL DATA  
 Station 3. Chinnar WLS 1st July 1997 to 31st July 1997

Day	Wind speed			Temperature			Humidity			Rain	Solar	Soil(15cm)			Soil(30cm)		
	m/s			oc			%			mm	MJ/m2	temp oC			temp oc		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Total	Total	Min	Avg	Max	Min	Avg	Max
1 (182)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
2 (183)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
3 (184)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
4 (185)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-95.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
5 (186)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-95.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
6 (187)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-95.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
7 (188)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
8 (189)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
9 (190)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
10 (191)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
11 (192)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
12 (193)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
13 (194)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
14 (195)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
15 (196)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
16 (197)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
17 (198)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
18 (199)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
19 (200)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
20 (201)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
21 (202)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
22 (203)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
23 (204)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
24 (205)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
25 (206)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
26 (207)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
27 (208)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
28 (209)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
29 (210)	0.8	1.4	2.6	25.3	26.5	28.1	54.9	69.5	83.8	0.0	1.7	29.2	30.2	30.7	29.8	29.9	30.0
30 (211)	1.0	2.1	3.3	24.7	28.3	32.0	45.5	59.3	77.6	0.4	16.2	27.7	29.3	31.3	28.8	29.4	30.0
31 (212)	0.9	3.2	4.7	24.4	29.2	32.0	37.6	48.8	76.5	0.0	23.3	28.1	30.9	34.8	29.1	29.9	31.5

-----  
 0.8 2.2 4.7 24.4 28.0 32.0 37.6 59.2 83.8 0.4 41 27.7 30.1 34.8 28.8 29.7 31.5

-99.00 indicate No data or Invalid data.

KERALA FOREST RESEARCH INSTITUTE. DAILY FOREST METEOROLOGICAL DATA  
Station 3, Chinnar WLS 1st August 1997 to 31st August 1997

Day	Wind speed			Temperature			Humidity			Rain mm	Solar MJ/m2	Soil(15cm) temp oC			Soil(30cm) temp oC		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max			Min	Avg	Max	Min	Avg	Max
1 (213)	0.6	2.3	3.5	23.3	28.1	32.2	43.3	59.4	87.4	0.4	18.5	29.6	31.8	34.2	30.3	31.0	31.8
2 (214)	0.9	2.9	5.8	26.6	29.3	33.0	39.6	51.0	64.1	0.0	23.9	29.8	32.6	36.2	30.6	31.5	32.8
3 (215)	0.5	1.9	3.5	24.0	27.9	32.5	41.4	58.2	81.2	0.2	11.3	30.8	32.0	33.4	31.3	31.9	32.8
4 (216)	0.7	2.9	4.6	24.8	29.8	32.4	30.5	41.4	60.0	0.2	23.9	30.0	32.5	36.0	30.8	31.6	33.0
5 (217)	0.8	3.0	4.1	23.2	29.4	31.4	26.1	34.4	63.1	0.0	22.2	30.5	32.9	35.5	31.5	32.3	33.0
6 (218)	1.5	2.5	3.9	24.7	28.9	30.5	36.3	47.3	78.9	0.2	12.4	31.1	32.3	33.3	31.8	32.3	33.0
7 (219)	0.5	0.9	2.4	22.0	24.0	26.6	59.7	83.8	94.5	1.8	6.9	28.5	29.8	31.8	30.3	31.1	32.2
8 (220)	0.4	0.9	2.5	22.0	25.2	30.0	52.1	74.9	93.1	0.2	11.0	26.9	28.2	29.4	28.9	29.4	30.2
9 (221)	0.5	1.2	2.6	21.9	26.5	32.1	40.0	63.2	82.9	0.0	14.7	26.4	28.6	31.7	28.3	29.0	29.9
10 (222)	0.3	1.6	3.4	22.3	27.4	32.5	36.0	59.4	85.6	0.0	21.1	27.8	30.7	34.5	29.1	30.0	31.4
11 (223)	0.5	1.4	2.8	23.7	28.7	34.3	33.2	52.6	74.0	0.0	22.2	29.5	32.5	36.1	30.4	31.3	32.8
12 (224)	0.2	1.0	2.1	23.1	27.5	32.7	39.2	62.1	80.3	0.4	16.2	30.9	32.7	34.7	31.5	32.1	32.8
13 (225)	0.2	1.0	2.7	21.8	27.6	33.8	34.6	61.8	84.8	0.0	17.8	30.0	32.4	34.9	31.2	32.0	32.7
14 (226)	0.3	1.1	2.9	22.0	27.3	32.8	39.3	59.9	77.3	0.0	21.3	30.2	32.9	36.1	31.3	32.2	33.2
15 (227)	0.3	1.2	2.7	19.4	27.3	34.6	32.6	58.5	85.6	0.0	25.0	30.0	33.4	37.4	31.5	32.5	33.9
16 (228)	0.1	1.3	2.9	21.5	28.0	33.5	40.5	59.4	81.0	0.0	22.3	31.7	34.5	37.5	32.6	33.5	34.4
17 (229)	0.3	1.3	4.1	22.3	27.9	33.5	38.7	58.1	82.4	0.0	17.7	31.7	34.0	35.9	32.8	33.6	34.4
18 (230)	0.3	1.5	4.3	23.2	28.4	33.8	36.1	53.6	74.6	0.0	20.7	31.4	34.0	37.0	32.6	33.4	34.3
19 (231)	0.3	1.6	3.3	22.9	28.8	34.4	35.7	52.0	69.8	0.2	20.3	31.7	34.1	37.0	32.8	33.6	34.3
20 (232)	0.6	1.8	3.0	24.5	29.0	32.9	37.9	52.0	68.9	0.0	16.0	31.6	33.5	35.2	32.8	33.4	34.1
21 (233)	0.3	1.2	2.1	23.6	27.6	32.0	44.6	62.9	83.3	2.2	11.1	31.6	32.6	33.7	32.6	33.0	33.7
22 (234)	0.5	2.0	5.0	22.4	26.5	31.5	40.1	63.7	91.9	3.0	15.9	27.9	29.8	31.5	30.6	31.4	32.7
23 (235)	0.5	1.3	2.8	22.7	26.3	31.8	43.0	68.6	91.8	0.2	12.8	27.8	29.6	32.2	29.9	30.5	31.2
24 (236)	0.6	1.8	4.3	20.5	27.6	33.7	30.8	52.5	84.5	0.0	26.7	26.9	30.9	36.4	29.5	30.6	32.4
25 (237)	0.5	1.6	2.8	21.0	28.3	33.7	30.9	47.5	69.6	0.0	27.0	28.8	32.7	37.6	30.8	31.9	33.5
26 (238)	0.5	1.9	3.3	24.2	28.1	32.0	41.7	57.3	72.1	0.0	17.0	31.1	33.3	35.6	32.2	32.9	33.5
27 (239)	0.5	2.2	5.2	25.0	28.1	31.3	40.8	56.3	80.4	0.4	10.7	30.8	32.0	33.4	32.0	32.5	33.3
28 (240)	0.8	2.4	3.6	25.6	29.4	32.7	40.0	50.2	68.0	0.2	17.6	29.1	31.5	35.2	30.8	31.5	32.6
29 (241)	0.4	1.4	4.3	22.2	27.0	31.9	40.2	67.0	95.7	0.8	16.4	29.7	31.9	34.2	31.2	31.9	32.6
30 (242)	0.3	1.3	4.0	23.2	27.6	32.2	38.7	59.7	80.5	0.0	16.2	29.6	31.9	34.7	31.1	31.8	32.5
31 (243)	0.1	1.1	3.1	18.7	27.0	34.5	38.7	62.0	85.7	0.0	23.0	28.8	32.3	36.0	30.9	31.9	33.0
	0.1	1.6	5.8	18.7	27.8	34.6	26.1	57.8	95.7	10.4	560	26.4	32.1	37.6	28.3	31.9	34.4

-99.00 indicate No data or Invalid data.

KERALA FOREST RESEARCH INSTITUTE. DAILY FOREST METEOROLOGICAL DATA  
 Station 3. Chinnar WLS 1st September 1997 to 30th September 1997

Day	Wind speed			Temperature			Humidity			Rain mm	Solar MJ/m2	Soil(15cm)			Soil(30cm)		
	m/s			oC			%					temp oC			temp oC		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Total	Total	Min	Avg	Max	Min	Avg	Max
1 (244)	0.0	1.1	3.0	20.9	28.0	34.6	40.6	63.0	89.3	0.0	21.9	30.3	33.6	37.4	31.8	32.7	33.9
2 (245)	0.1	1.5	4.4	19.9	28.3	34.7	29.2	51.2	84.1	0.0	26.7	31.0	34.2	37.8	32.5	33.4	34.5
3 (246)	0.1	1.2	3.0	19.7	27.8	34.2	37.2	55.3	79.5	0.0	23.2	31.1	34.2	37.2	32.8	33.7	34.5
4 (247)	0.2	1.0	3.0	20.0	25.8	33.6	41.4	70.4	89.3	3.6	18.7	31.2	33.3	36.1	33.0	33.7	34.5
5 (248)	0.2	0.9	2.0	22.5	26.0	31.2	57.6	78.7	95.2	1.4	13.9	28.9	30.5	32.1	31.5	32.1	33.5
6 (249)	0.0	0.7	2.3	22.7	26.2	31.4	55.3	81.0	96.6	0.0	18.6	28.3	30.5	33.2	30.6	31.3	31.9
7 (250)	0.2	1.0	3.3	21.3	25.7	32.9	48.6	79.6	95.7	3.2	21.2	28.0	31.2	35.5	30.5	31.4	32.4
8 (251)	0.1	0.5	1.8	22.8	25.7	29.3	64.3	83.1	97.1	0.0	10.5	28.4	29.8	31.0	30.5	31.1	32.2
9 (252)	0.0	0.4	1.7	22.6	24.7	28.6	67.9	87.9	97.4	4.8	10.8	27.6	28.8	29.8	29.7	30.1	30.9
10 (253)	0.1	0.9	2.8	20.7	24.8	31.0	60.6	86.1	97.3	7.2	19.3	26.5	28.5	31.0	28.7	29.4	30.0
11 (254)	0.1	0.8	2.0	21.3	24.6	29.0	68.0	88.0	98.1	7.2	15.3	26.9	28.5	30.5	28.7	29.3	29.8
12 (255)	0.1	0.8	2.6	21.3	25.3	30.0	64.1	83.3	98.3	0.0	23.4	26.6	28.8	31.5	28.5	29.2	30.1
13 (256)	0.1	0.8	2.3	23.1	25.9	30.4	64.5	83.2	95.7	0.6	19.8	27.8	29.5	31.5	29.2	29.8	30.4
14 (257)	0.2	0.7	1.9	22.8	25.8	29.5	63.5	82.0	95.1	0.0	16.3	27.8	29.6	31.9	29.3	29.9	30.6
15 (258)	0.1	0.9	2.7	22.1	26.6	32.7	49.9	76.9	95.9	0.0	22.1	28.0	30.7	34.2	29.5	30.3	31.5
16 (259)	0.2	0.8	2.3	21.9	26.2	30.7	61.0	78.7	96.5	0.6	21.6	28.8	31.2	34.0	30.2	31.0	31.8
17 (260)	0.1	0.8	2.7	20.4	25.3	31.4	54.6	79.9	97.1	0.0	20.7	28.5	31.1	34.2	30.3	31.1	31.8
18 (261)	0.1	1.1	2.3	20.6	26.1	32.0	46.4	72.1	97.0	0.0	17.1	28.6	30.9	33.7	30.3	30.9	31.7
19 (262)	0.3	0.9	2.3	21.2	27.2	34.0	41.4	67.5	94.9	0.0	23.1	28.8	31.8	35.3	30.3	31.2	32.3
20 (263)	0.2	0.9	2.1	21.1	26.5	31.3	55.7	72.5	93.5	0.0	18.0	29.7	32.0	33.9	31.0	31.7	32.3
21 (264)	0.3	1.1	3.0	21.8	27.5	34.0	38.9	65.4	92.3	0.2	22.8	29.7	32.3	35.5	31.0	31.7	32.7
22 (265)	0.3	1.2	2.4	21.1	27.2	33.1	42.3	63.1	86.2	0.0	17.7	29.9	32.1	34.1	31.3	32.0	32.7
23 (266)	0.3	1.5	3.0	23.9	28.0	32.5	39.4	60.4	79.3	0.0	19.1	30.3	32.4	35.3	31.3	32.0	32.8
24 (267)	0.5	1.4	2.8	22.8	27.5	31.6	44.3	61.4	78.3	0.0	17.0	30.4	32.5	34.7	31.6	32.2	32.8
25 (268)	0.3	1.6	4.2	20.4	26.9	33.4	30.9	58.1	91.0	0.0	25.9	29.8	32.7	36.4	31.3	32.2	33.3
26 (269)	0.4	1.3	3.7	17.7	26.4	34.3	30.8	54.1	80.1	0.0	24.5	29.6	32.9	36.6	31.5	32.5	33.4
27 (270)	0.2	0.9	2.6	18.3	26.1	33.6	35.8	63.3	88.5	0.0	22.0	30.0	33.0	36.0	31.8	32.7	33.4
28 (271)	0.1	1.0	3.0	17.2	26.0	33.7	37.7	63.4	91.8	0.0	22.5	29.7	32.9	36.1	31.7	32.6	33.4
29 (272)	0.1	1.0	2.5	18.2	26.2	32.4	43.6	66.4	90.5	0.0	21.6	30.0	33.1	36.1	31.9	32.7	33.5
30 (273)	0.0	0.9	3.0	20.5	26.0	32.3	48.6	74.0	91.4	0.2	18.9	30.8	33.2	35.9	32.2	33.0	33.5
	0.0	1.0	4.4	17.2	26.3	34.7	29.2	71.7	98.3	29.1	594	26.5	31.5	37.8	28.5	31.6	34.5

-99.00 indicate No data or Invalid data.



KERALA FOREST RESEARCH INSTITUTE, DAILY FOREST METEOROLOGICAL DATA  
Station 3, Chinnar WLS 1st October 1997 to 31st October 1997

Day	Wind speed			Temperature			Humidity			Rain mm	Solar MJ/m2	Soil(15cm)			Soil(30cm)		
	m/s			oC			%					temp oC			temp oC		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Total	Total	Min	Avg	Max	Min	Avg	Max
1 (274)	0.1	1.2	3.1	23.3	25.8	31.3	52.7	74.7	91.3	0.2	18.0	30.7	32.8	35.6	32.0	32.7	33.3
2 (275)	0.2	1.0	2.5	18.4	26.2	32.8	35.8	59.0	86.2	0.0	22.7	29.7	32.8	36.3	31.6	32.5	33.4
3 (276)	0.3	1.1	2.6	20.3	26.3	31.9	47.7	62.1	77.1	0.0	19.6	30.7	33.3	36.0	32.2	32.9	33.6
4 (277)	0.0	1.0	3.1	21.6	26.2	33.3	38.5	69.9	86.7	0.2	20.3	30.9	33.5	36.8	32.3	33.1	33.8
5 (278)	0.1	1.0	2.6	22.2	26.5	33.8	32.2	70.5	96.1	3.8	23.5	30.5	33.4	37.3	32.1	33.0	33.9
6 (279)	0.0	0.8	2.0	20.7	26.8	34.0	31.7	70.4	97.9	0.0	22.2	29.2	32.3	35.9	31.7	32.7	33.8
7 (280)	0.0	1.0	2.6	22.1	25.9	33.2	38.5	77.0	95.1	21.7	20.7	29.9	32.2	37.0	31.8	32.5	33.1
8 (281)	0.0	0.7	1.8	21.1	25.0	30.1	52.9	82.3	99.0	2.4	22.2	27.7	29.6	32.4	30.1	30.7	31.4
9 (282)	0.0	0.7	2.2	21.7	25.4	29.9	59.5	82.0	98.6	0.0	17.5	28.4	30.0	31.8	30.2	30.7	31.3
10 (283)	0.0	0.7	2.1	20.1	25.7	31.4	40.8	73.2	97.6	0.0	21.6	27.8	30.0	32.7	29.8	30.5	31.2
11 (284)	0.1	0.8	2.2	22.5	25.7	31.0	52.0	78.2	95.8	2.6	19.6	28.9	30.7	33.0	30.3	30.9	31.5
12 (285)	0.0	0.7	2.5	20.9	24.1	29.8	61.8	88.4	98.5	13.6	12.2	27.9	29.3	30.7	29.9	30.4	31.4
13 (286)	0.1	0.5	1.8	20.9	23.6	28.7	67.6	89.5	98.4	7.6	13.6	26.8	27.9	29.5	28.7	29.1	29.8
14 (287)	0.0	0.6	1.8	20.7	23.8	27.5	73.4	90.0	99.0	4.6	14.0	26.6	27.8	28.9	28.3	28.7	29.1
15 (288)	0.0	0.9	2.3	20.8	23.7	29.6	62.5	88.2	98.3	6.8	18.6	26.3	27.7	29.7	28.0	28.4	29.0
16 (289)	0.1	0.6	1.4	20.7	23.4	27.8	69.7	90.6	98.3	6.0	12.3	26.3	27.3	28.5	27.8	28.2	28.7
17 (290)	0.0	0.8	1.7	22.5	24.6	28.6	70.0	88.1	97.9	19.3	13.5	26.8	27.5	28.8	28.0	28.2	28.4
18 (291)	0.1	0.7	1.5	22.0	25.3	29.7	63.7	82.9	99.0	0.2	16.2	26.5	27.5	29.0	27.7	28.0	28.6
19 (292)	0.1	0.6	1.5	20.6	24.9	28.8	63.4	80.7	96.9	1.6	17.6	26.7	27.9	29.0	27.9	28.3	28.6
20 (293)	0.1	0.8	2.4	21.4	24.4	29.4	66.3	87.3	98.6	16.9	16.7	26.8	27.7	29.0	28.0	28.3	28.6
21 (294)	0.1	0.6	1.8	22.0	23.6	27.4	77.4	94.1	98.9	31.1	9.3	26.6	27.0	28.0	27.7	27.9	28.2
22 (295)	0.0	0.7	2.2	21.7	24.2	28.7	69.4	90.2	99.1	21.5	19.4	26.2	27.0	28.8	27.3	27.6	27.8
23 (296)	0.0	0.4	1.2	21.8	23.8	27.4	77.1	92.5	99.5	14.2	10.0	25.3	26.5	27.4	26.7	27.2	27.8
24 (297)	0.0	0.7	3.1	20.9	24.1	29.3	67.5	89.4	99.1	3.4	18.2	25.9	27.0	28.3	27.0	27.4	27.8
25 (298)	0.1	0.6	1.6	20.9	24.6	29.1	69.9	87.7	99.3	0.2	19.1	26.1	27.3	28.6	27.2	27.6	28.0
26 (299)	0.1	0.8	1.9	21.9	24.9	29.4	62.5	85.2	98.5	6.6	20.6	26.7	27.7	29.1	27.6	27.9	28.4
27 (300)	0.1	0.7	2.2	21.3	23.8	29.5	67.5	90.7	99.6	10.0	15.1	26.6	27.3	28.5	27.6	27.9	28.3
28 (301)	0.2	0.8	1.6	21.3	23.6	28.9	68.9	90.2	99.4	22.9	17.0	26.0	26.7	28.2	27.2	27.4	27.8
29 (302)	0.1	0.6	1.6	21.0	24.2	28.2	71.5	89.2	99.8	0.2	14.0	25.7	26.5	27.5	26.9	27.2	27.5
30 (303)	0.0	0.6	1.8	21.3	23.9	27.5	74.6	91.0	99.6	18.9	14.7	25.2	26.2	27.5	26.1	26.7	27.5
31 (304)	0.0	0.7	2.4	22.0	23.7	28.2	74.3	91.1	99.1	0.8	15.7	26.1	26.8	27.9	26.9	27.2	27.5
	0.0	0.8	3.1	18.4	24.8	34.0	31.7	83.1	99.8	237.4	536	25.2	28.9	37.3	26.1	29.4	33.9

-99.00 indicate No data or Invalid data.

KERALA FOREST RESEARCH INSTITUTE. DAILY FOREST METEOROLOGICAL DATA  
Station 3. Chinnar WLS 1st November 1997 to 30th November 1997

Day	Wind speed			Temperature			Humidity			Rain mm	Solar MJ/m2	Soil(15cm)			Soil(30cm)		
	m/s			oc			%					temp oC			temp oC		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Total	Total	Min	Avg	Max	Min	Avg	Max
1 (305)	0.0	0.6	1.9	20.7	24.2	29.1	66.1	88.0	98.9	0.4	16.3	25.8	26.6	27.6	26.8	27.1	27.4
2 (306)	0.1	0.6	1.5	21.9	25.0	29.1	65.6	85.0	98.3	0.0	16.2	26.0	26.9	28.0	26.9	27.2	27.6
3 (307)	0.0	0.7	1.7	22.5	23.6	25.9	84.7	94.1	98.3	5.4	5.7	26.5	26.8	27.3	27.2	27.3	27.6
4 (308)	0.0	0.8	1.9	22.2	23.6	26.5	77.7	91.0	98.3	2.6	9.7	26.0	26.5	27.1	26.8	27.0	27.2
5 (309)	0.0	0.7	2.1	21.9	23.7	28.2	70.5	91.7	99.5	6.2	13.4	25.6	26.4	27.3	26.6	26.9	27.1
6 (310)	0.1	0.6	1.5	20.7	23.8	27.4	70.6	88.3	98.3	9.4	12.5	25.4	26.2	27.0	26.4	26.7	27.1
7 (311)	0.0	0.4	1.6	21.8	23.9	28.0	69.2	89.8	99.3	3.4	10.5	25.8	26.3	27.0	26.6	26.8	27.0
8 (312)	0.0	0.3	1.0	21.5	22.0	22.3	97.3	99.1	100.0	40.9	1.7	24.4	24.9	26.4	25.1	25.8	26.9
9 (313)	0.0	0.7	1.9	21.0	23.6	27.0	77.0	92.3	100.0	19.9	13.3	24.2	24.9	26.1	25.2	25.4	25.8
10 (314)	0.0	0.6	1.8	22.1	23.9	28.1	73.7	93.0	100.0	10.2	13.3	24.9	25.6	26.9	25.6	25.8	26.4
11 (315)	0.0	0.6	1.7	20.4	24.1	28.5	71.0	90.2	100.0	0.0	16.7	24.9	25.9	27.0	25.8	26.1	26.5
12 (316)	0.1	0.7	2.0	20.5	24.5	29.2	64.7	85.4	99.5	0.2	20.7	25.0	26.1	27.5	25.9	26.3	26.8
13 (317)	0.3	0.8	2.0	19.2	24.1	28.9	65.1	83.3	99.2	0.0	22.5	24.9	26.2	27.5	26.0	26.4	26.8
14 (318)	0.2	0.7	1.5	18.4	23.9	29.5	63.4	81.7	98.1	0.0	21.4	24.7	26.0	27.3	26.0	26.4	26.8
15 (319)	0.2	0.5	1.4	20.0	24.2	29.1	65.3	85.2	97.9	0.0	14.1	25.2	26.1	27.1	26.1	26.4	26.7
16 (320)	0.1	0.6	1.3	21.5	24.5	28.9	65.4	86.9	98.3	0.4	15.4	25.6	26.4	27.4	26.4	26.6	26.9
17 (321)	0.1	0.6	1.3	21.9	23.6	25.9	78.5	93.4	99.3	15.1	8.0	25.5	26.2	26.7	26.4	26.6	26.9
18 (322)	0.1	0.5	1.3	20.8	23.8	27.3	77.4	92.6	100.0	1.8	12.6	25.0	25.8	26.7	26.0	26.2	26.5
19 (323)	0.0	0.5	1.4	22.0	24.3	27.6	74.8	91.1	99.8	9.0	11.9	25.5	26.1	26.9	26.2	26.4	26.6
20 (324)	0.2	0.5	1.7	19.3	23.9	29.8	65.9	88.4	99.5	0.0	17.0	24.9	26.0	26.9	26.0	26.4	26.6
21 (325)	0.1	0.6	1.6	20.4	24.0	27.8	73.8	89.3	99.2	0.0	12.7	25.0	25.8	26.6	26.0	26.3	26.6
22 (326)	0.2	0.5	1.2	22.5	25.0	28.1	70.0	87.1	99.2	0.4	11.7	25.6	26.1	26.8	26.2	26.4	26.6
23 (327)	0.1	0.6	1.5	22.3	24.4	27.9	73.6	90.5	99.7	2.0	13.0	25.8	26.4	27.1	26.4	26.5	26.8
24 (328)	0.0	0.7	1.5	21.3	23.8	28.1	71.9	91.6	99.9	11.2	12.0	25.6	26.2	27.0	26.3	26.6	26.8
25 (329)	0.1	0.6	1.7	20.7	23.3	27.8	72.0	91.1	99.9	3.2	14.8	25.1	25.8	26.5	26.0	26.3	26.6
26 (330)	0.2	0.8	2.5	20.5	23.6	28.6	70.6	90.8	100.0	18.9	16.2	24.9	25.5	26.7	25.4	26.0	26.4
27 (331)	0.2	0.7	2.1	21.4	24.0	27.7	74.8	91.1	100.0	0.6	14.3	24.8	25.4	26.4	25.7	25.9	26.2
28 (332)	0.3	0.7	1.6	20.6	23.4	26.3	81.2	92.9	99.5	0.8	9.6	25.0	25.6	26.1	25.9	26.1	26.2
29 (333)	0.3	0.8	1.5	21.5	23.7	26.7	81.2	92.2	99.5	0.8	8.4	25.1	25.6	26.1	25.8	26.0	26.1
30 (334)	0.1	0.9	1.8	22.1	24.5	28.2	72.7	89.5	98.6	0.2	14.0	25.3	25.9	26.6	25.9	26.1	26.4
	0.0	0.6	2.5	18.4	23.9	29.8	63.4	89.9	100.0	163.1	399	24.2	26.0	28.0	25.1	26.4	27.6

-99.00 indicate No data or Invalid data.

KERALA FOREST RESEARCH INSTITUTE, DAILY FOREST METEOROLOGICAL DATA  
Station 3, Chinnar WLS 1st December 1997 to 31st December 1997

Day	Wind speed			Temperature			Humidity			Rain mm	Solar MJ/m2	Soil(15cm)			Soil(30cm)		
	m/s			oC			%					temp oC			temp oC		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Total	Total	Min	Avg	Max	Min	Avg	Max
1 (335)	0.2	0.7	1.3	21.1	23.1	26.1	77.7	91.0	99.0	1.8	7.0	25.1	25.6	26.0	25.9	26.1	26.4
2 (336)	0.3	0.6	1.3	17.8	22.1	26.6	70.2	88.3	98.9	0.2	8.7	24.0	24.7	25.5	25.3	25.6	26.1
3 (337)	0.2	0.7	1.5	21.3	22.0	23.0	87.4	94.3	99.0	3.4	2.6	24.5	24.7	24.9	25.3	25.4	25.5
4 (338)	0.1	0.8	1.4	21.1	23.0	26.4	73.7	90.6	99.7	4.6	7.7	24.1	24.6	25.1	25.0	25.1	25.3
5 (339)	0.2	0.7	2.1	21.6	23.2	26.9	73.4	91.7	98.8	1.2	9.8	24.5	25.0	25.6	25.1	25.3	25.5
6 (340)	0.0	0.6	1.7	21.5	22.3	24.1	88.5	97.0	100.0	26.9	4.4	23.9	24.8	25.2	24.7	25.3	25.5
7 (341)	0.0	0.5	1.1	21.3	22.2	23.8	92.7	98.5	100.0	37.5	4.6	22.6	23.5	23.9	22.8	23.9	24.8
8 (342)	0.0	0.7	1.7	21.4	23.4	26.2	79.7	93.5	100.0	2.0	8.9	23.7	24.2	24.9	24.2	24.4	24.8
9 (343)	0.2	0.5	1.8	19.5	23.4	27.7	73.2	91.7	99.8	2.0	13.8	23.7	24.5	25.2	24.6	24.8	25.0
10 (344)	0.3	0.6	2.0	19.3	24.2	29.0	66.4	87.0	99.9	0.0	16.0	23.8	24.7	25.5	24.7	24.9	25.2
11 (345)	0.2	0.5	1.4	20.9	24.1	28.3	69.3	88.8	99.4	0.0	11.9	24.4	25.0	25.5	25.0	25.2	25.4
12 (346)	0.1	0.6	1.5	22.1	24.1	27.0	75.7	91.0	98.8	0.2	11.3	24.8	25.3	25.8	25.3	25.4	25.6
13 (347)	0.0	0.5	1.4	20.4	24.2	28.1	73.1	89.5	100.0	0.0	14.6	24.5	25.2	25.9	25.2	25.4	25.6
14 (348)	0.1	0.7	1.8	19.7	24.6	29.0	70.2	86.6	99.0	0.2	17.1	24.5	25.3	26.0	25.3	25.5	25.7
15 (349)	0.1	0.7	1.6	22.0	25.1	29.1	68.8	87.4	99.5	0.0	12.7	24.9	25.5	26.0	25.5	25.6	25.8
16 (350)	0.1	0.2	0.4	22.4	23.1	23.6	97.8	99.0	99.5	0.0	0.0	25.4	25.6	25.8	25.8	25.8	25.9
17 (351)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
18 (352)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
19 (353)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
20 (354)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
21 (355)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
22 (356)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
23 (357)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
24 (358)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
25 (359)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
26 (360)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
27 (361)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
28 (362)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
29 (363)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
30 (364)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
31 (365)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0

0 0 0 6 2 1 17 8 23.4 29.1 66.4 91.6 100.0 80.1 151 22.6 24.9 26.0 22.8 25.2 26.4

-99.00 indicate No data or Invalid data.

KERALA FOREST RESEARCH INSTITUTE. DAILY FOREST METEOROLOGICAL DATA  
 Station 3. Chinnar WLS 1st January 1998 to 31st January 1998

Day	Wind speed			Temperature			Humidity			Rain	Solar	Soil(15cm)			Soil(30cm)		
	m/s			oC			%			mm	MJ/m2	temp oC			temp oc		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Total	Total	Min	Avg	Max	Min	Avg	Max
1 ( 1)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
2 ( 2)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
3 ( 3)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
4 ( 4)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
5 ( 5)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
6 ( 6)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
7 ( 7)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
8 ( 8)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
9 ( 9)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
10 ( 10)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
11 ( 11)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
12 ( 12)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
13 ( 13)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
14 ( 14)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
15 ( 15)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
16 ( 16)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
17 ( 17)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
18 ( 18)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
19 ( 19)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
20 ( 20)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
21 ( 21)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
22 ( 22)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
23 ( 23)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
24 ( 24)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
25 ( 25)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
26 ( 26)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
27 ( 27)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
28 ( 28)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
29 ( 29)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
30 ( 30)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
31 ( 31)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0

-99.00 indicate No data or Invalid data.

KERALA FOREST RESEARCH INSTITUTE, DAILY FOREST METEOROLOGICAL DATA  
Station 3, Chinnar WLS 1st February 1998 to 28th February 1998

Day	Wind speed			Temperature			Humidity			Rain	Solar	Soil(15cm)			Soil(30cm)		
	m/s			oC			%			mm	MJ/m2	temp oC			temp oC		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Total	Total	Min	Avg	Max	Min	Avg	Max
1 ( 32)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
2 ( 33)	-99.0	-99.0	-99.0	099.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
3 ( 34)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
4 ( 35)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
5 ( 36)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
6 ( 37)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
7 ( 38)	-99.0	-99.0	-99.0	099.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
8 ( 39)	-99.0	-99.0	-99.0	099.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
9 ( 40)	-99.0	-99.0	-99.0	099.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
10 ( 41)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
11 ( 42)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
12 ( 43)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
13 ( 44)	0.3	1.1	2.0	20.5	26.6	29.8	48.3	61.8	85.3	2.8	8.4	26.2	27.2	27.8	27.4	28.7	29.4
14 ( 45)	0.2	0.9	2.2	16.1	22.8	29.9	54.4	77.9	97.3	0.0	21.6	27.0	27.5	27.9	26.1	27.7	29.3
15 ( 46)	0.0	0.8	2.1	18.3	24.5	31.2	49.5	74.6	96.6	0.0	21.2	27.2	27.6	28.2	26.4	28.0	29.8
16 ( 47)	0.1	0.8	2.1	17.3	24.3	30.5	52.4	75.8	97.3	0.0	18.0	27.5	27.9	28.3	26.8	28.3	29.6
17 ( 48)	0.0	0.9	2.2	20.3	25.5	31.2	53.2	73.9	94.0	0.0	20.9	27.7	28.1	28.6	27.2	28.6	30.3
18 ( 49)	0.1	0.9	2.2	19.1	25.0	31.2	53.8	77.1	95.9	0.0	19.2	28.0	28.5	28.9	27.5	28.9	30.3
19 ( 50)	0.1	0.8	2.4	17.4	25.2	32.8	48.7	75.4	97.8	0.0	23.2	28.0	28.5	29.1	27.1	29.0	31.0
20 ( 51)	0.1	0.8	2.3	17.8	25.6	32.9	46.9	74.5	97.1	0.0	22.1	28.3	28.8	29.4	27.6	29.4	31.2
21 ( 52)	0.0	0.8	2.6	18.4	24.7	32.8	52.4	79.7	96.9	0.0	10.3	28.6	29.2	29.6	29.1	30.4	31.6
22 ( 53)	0.1	0.9	2.4	16.5	25.3	33.5	41.1	70.6	97.1	0.0	23.6	28.7	29.3	29.7	27.8	29.8	31.7
23 ( 54)	0.1	0.9	2.0	18.5	25.7	32.0	46.4	72.5	96.4	0.0	21.2	29.0	29.5	29.9	28.4	30.0	31.5
24 ( 55)	0.1	1.0	2.5	21.2	26.9	32.7	42.6	69.2	93.6	0.0	23.0	29.2	29.7	30.3	28.8	30.5	32.3
25 ( 56)	0.2	1.1	2.5	20.7	26.4	32.5	40.8	68.0	91.5	0.0	22.8	29.6	30.1	30.6	29.2	30.9	32.6
26 ( 57)	0.1	1.1	3.0	16.5	25.9	34.5	28.7	60.6	94.2	0.0	25.0	29.5	30.1	30.6	28.6	30.7	32.7
27 ( 58)	0.2	1.0	2.6	16.6	25.6	33.6	38.8	64.8	92.6	0.0	23.6	29.6	30.2	30.7	28.7	30.7	32.7
28 ( 59)	0.2	1.1	2.9	17.8	26.3	34.5	29.2	60.0	92.0	0.0	24.2	29.7	30.3	30.8	28.9	30.9	33.0
	0.0	0.9	3.0	16.1	25.4	34.5	28.7	71.0	97.8	2.8	328	26.2	28.9	30.8	26.1	29.5	33.0

-99.00 indicate No data or Invalid data.

KERALA FOREST RESEARCH INSTITUTE, DAILY FOREST METEOROLOGICAL DATA  
Station 3, Chinnar WLS 1st March 1998 to 31st March 1998

Day	Wind speed			Temperature			Humidity			Rain	Solar	Soil(15cm)			Soil(30cm)		
	m/s			oC			%			mm	MJ/m2	temp oC			temp oC		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Total	Total	Min	Avg	Max	Min	Avg	Max
1 ( 60)	0.1	1.0	2.2	17.8	26.0	33.8	30.2	58.7	89.3	0.0	23.6	29.8	30.4	30.9	29.0	31.0	32.9
2 ( 61)	0.2	1.1	2.3	17.9	25.8	33.5	29.5	60.1	89.3	0.0	23.9	29.9	30.5	31.0	29.1	31.0	33.0
3 ( 62)	0.1	1.1	2.4	16.8	24.9	31.8	37.2	63.4	93.1	0.0	24.3	29.9	30.5	31.0	29.0	31.0	33.0
4 ( 63)	0.2	1.2	3.3	16.4	25.0	33.2	25.6	58.5	93.8	0.0	25.3	29.9	30.5	31.0	28.9	30.9	33.0
5 ( 64)	0.2	1.1	2.6	14.3	24.1	32.5	30.1	58.8	93.0	0.0	25.5	29.7	30.4	31.0	28.5	30.7	32.8
6 ( 65)	0.2	1.0	2.7	16.0	25.1	34.2	32.3	63.7	91.2	0.0	23.7	29.8	30.4	30.9	28.7	30.8	33.0
7 ( 66)	0.1	1.0	2.0	18.5	26.7	34.5	32.3	62.6	93.9	0.0	23.8	30.0	30.6	31.2	29.2	31.2	33.4
8 ( 67)	0.2	1.1	2.5	20.4	26.9	33.8	38.6	64.9	89.1	0.0	22.2	30.4	30.9	31.5	29.9	31.7	33.8
9 ( 68)	0.1	0.9	2.7	19.3	27.1	34.4	32.0	61.7	92.6	0.0	23.4	30.7	31.2	31.8	30.0	32.0	34.1
10 ( 69)	0.1	1.1	2.5	18.3	27.0	34.2	35.5	59.8	91.3	0.0	24.0	30.8	31.4	31.9	30.1	32.2	34.2
11 ( 70)	0.1	0.9	2.4	20.0	27.3	34.2	33.6	60.6	90.9	0.0	23.3	31.1	31.6	32.2	30.5	32.5	34.5
12 ( 71)	0.1	1.1	2.3	18.0	27.2	34.7	22.7	53.6	92.6	0.0	24.1	31.2	31.8	32.3	30.5	32.5	34.5
13 ( 72)	0.3	1.0	2.6	16.0	25.9	34.6	27.3	55.1	86.2	0.0	23.9	31.0	31.7	32.3	29.9	32.2	34.3
14 ( 73)	0.2	1.0	2.4	17.7	26.8	34.9	31.5	60.5	89.5	0.0	24.3	31.1	31.7	32.2	30.1	32.3	34.5
15 ( 74)	0.1	1.1	2.6	19.6	27.1	33.1	37.1	63.7	93.8	0.0	23.0	31.4	31.9	32.4	30.7	32.7	34.6
16 ( 75)	0.2	1.2	2.5	20.1	26.4	32.2	34.3	60.2	86.9	0.0	21.6	31.5	32.0	32.5	30.8	32.5	34.0
17 ( 76)	0.2	1.2	2.5	16.4	25.7	33.1	30.9	57.3	92.0	0.0	25.7	31.1	31.7	32.3	30.0	32.1	34.2
18 ( 77)	0.1	1.1	2.6	15.5	25.1	32.8	30.9	57.0	90.9	0.0	25.5	31.0	31.6	32.2	29.8	32.0	34.1
19 ( 78)	0.2	1.1	2.4	15.7	25.5	34.2	22.8	52.2	90.6	0.0	26.4	30.9	31.6	32.1	29.7	31.9	34.0
20 ( 79)	0.3	1.3	3.3	14.2	25.9	35.2	19.5	48.7	88.9	0.0	26.6	30.9	31.5	32.1	29.5	31.9	34.2
21 ( 80)	0.2	1.3	3.0	15.9	26.2	35.0	19.2	46.3	87.2	0.0	26.5	31.0	31.6	32.1	29.8	32.0	34.3
22 ( 81)	0.2	1.1	2.8	17.0	26.6	35.8	21.2	47.6	81.2	0.0	25.9	31.1	31.7	32.3	29.9	32.2	34.6
23 ( 82)	0.1	1.1	2.6	16.9	26.9	36.0	25.2	50.0	82.4	0.0	25.2	31.3	31.9	32.5	30.2	32.5	34.8
24 ( 83)	0.2	1.0	2.4	18.0	27.6	37.2	21.1	51.7	87.1	0.0	26.1	31.5	32.2	32.8	30.6	32.8	35.3
25 ( 84)	0.0	0.9	2.3	18.6	27.6	35.9	33.8	60.3	86.8	0.0	24.8	31.8	32.4	33.0	31.0	33.2	35.5
26 ( 85)	0.0	1.0	2.6	20.6	28.2	35.3	34.4	62.8	93.2	0.0	24.2	32.2	32.8	33.3	31.7	33.6	35.7
27 ( 86)	0.2	1.2	2.5	22.2	28.6	34.9	36.4	60.4	85.8	0.0	24.4	32.5	33.0	33.6	32.0	33.9	36.0
28 ( 87)	0.1	1.1	2.6	22.3	28.4	34.4	25.7	55.3	84.7	0.0	25.2	32.8	33.3	33.8	32.4	34.2	36.2
29 ( 88)	0.3	1.0	2.7	18.4	27.0	34.5	33.2	55.9	86.5	0.0	25.2	32.6	33.3	33.9	31.7	33.8	36.0
30 ( 89)	0.1	1.2	2.5	19.7	27.7	34.8	33.7	57.5	85.9	0.0	25.3	32.7	33.3	33.8	31.9	34.0	36.1
31 ( 90)	0.2	1.1	2.5	21.1	28.6	35.3	35.8	58.1	82.2	0.0	23.9	32.9	33.5	34.0	32.2	34.2	36.3
	0.0	1.1	3.3	14.2	26.6	37.2	19.2	57.6	93.9	0.0	760	29.7	31.7	34.0	28.5	32.3	36.3

-99.00 indicate No data or Invalid data.

KERALA FOREST RESEARCH INSTITUTE. OAILY FOREST METEOROLOGICAL DATA  
 Station 3. Chinnar WLS 1st April 1998 to 30th April 1998

Day	Wind speed			Temperature			Humidity			Rain mm	Solar MJ/m2	Soil(15cm) temp oC			Soil(30cm) temp oC		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max			Min	Avg	Max	Min	Avg	Max
1 ( 91)	0.1	1.1	2.5	24.0	29.6	34.9	34.3	62.3	88.3	0.0	22.5	33.3	33.8	34.3	33.1	34.7	36.6
2 ( 92)	0.2	1.1	2.4	23.6	29.2	35.0	29.6	56.8	84.1	0.0	25.8	33.6	34.1	34.7	33.3	35.1	37.2
3 ( 93)	0.2	1.1	2.4	22.3	28.3	34.7	30.2	60.1	94.3	0.6	24.6	33.6	34.1	34.7	33.0	34.6	36.0
4 ( 94)	0.0	1.2	3.3	21.2	27.8	35.1	24.6	57.4	89.9	0.0	26.3	33.0	33.7	34.2	32.1	34.1	36.4
5 ( 95)	0.1	1.3	2.9	18.0	26.7	34.8	30.2	56.7	87.0	0.0	26.2	32.0	33.6	34.2	31.8	34.0	36.3
6 ( 96)	0.1	1.2	2.7	19.0	27.7	36.1	27.1	54.2	88.0	0.0	26.4	33.0	33.6	34.2	32.0	34.2	36.5
7 ( 97)	0.2	1.0	2.4	20.4	28.0	35.9	24.8	53.2	84.4	0.0	22.0	33.3	33.9	34.5	32.5	34.7	36.9
8 ( 98)	0.1	0.9	2.3	18.6	27.0	35.2	23.6	50.7	82.6	0.0	20.9	33.3	33.9	34.5	32.4	34.2	35.9
9 ( 99)	0.1	1.1	2.4	17.0	27.2	35.5	28.7	51.5	83.0	0.0	26.2	32.9	33.6	34.2	31.5	33.9	36.4
10 (100)	0.2	1.1	2.8	20.7	28.4	35.6	30.0	57.5	82.7	0.0	26.0	33.3	33.9	34.7	32.5	34.7	37.2
11 (101)	0.0	1.1	2.6	23.0	29.4	35.6	30.0	56.8	86.0	0.0	26.1	33.9	34.5	35.2	33.5	35.5	37.8
12 (102)	0.1	1.1	2.4	20.5	28.9	36.4	26.7	54.9	81.8	0.0	26.5	34.1	34.7	35.4	33.3	35.6	38.0
13 (103)	0.2	1.2	2.9	22.2	28.5	35.7	34.2	62.6	87.4	0.0	21.4	34.5	35.0	35.4	34.0	35.8	37.7
14 (104)	0.1	1.1	2.6	21.4	29.1	36.2	31.0	56.3	87.8	0.0	25.2	34.3	34.9	35.5	33.5	35.7	38.0
15 (105)	0.1	1.1	2.5	22.2	29.2	36.4	29.9	58.5	81.4	0.0	24.9	34.5	35.1	35.7	33.8	35.9	38.3
16 (106)	0.1	1.0	2.5	24.4	30.0	36.3	31.1	59.0	83.8	0.0	25.0	34.9	35.4	36.1	34.6	36.6	38.9
17 (107)	0.1	1.1	3.4	23.5	28.6	35.8	35.5	64.0	82.4	0.0	22.3	35.1	35.7	36.1	34.7	36.6	38.5
18 (108)	0.1	1.0	2.3	21.1	29.6	37.5	26.9	56.8	90.6	0.0	23.9	34.7	35.4	36.0	33.8	36.0	38.4
19 (109)	0.0	0.9	2.5	22.6	29.9	37.2	33.3	59.8	84.4	0.0	22.0	34.9	35.5	36.1	34.3	36.4	38.6
20 (110)	0.1	1.1	2.6	23.1	30.5	37.8	32.2	59.1	88.4	0.0	24.1	35.1	35.7	36.3	34.5	36.7	39.2
21 (111)	0.1	1.3	4.8	24.8	30.0	37.3	38.2	65.8	89.6	0.0	25.1	35.5	36.1	36.8	35.3	37.4	39.8
22 (112)	0.2	1.4	5.2	22.0	28.5	36.4	40.0	64.7	84.5	0.2	22.4	35.5	36.1	36.8	34.8	36.9	38.9
23 (113)	0.2	1.4	3.1	21.3	27.3	36.3	39.1	69.5	92.1	12.6	22.1	35.2	35.7	36.4	33.9	35.6	38.0
24 (114)	0.3	1.0	2.7	22.2	28.1	35.2	39.2	68.5	95.6	0.0	22.4	33.5	34.1	35.3	31.7	33.3	35.2
25 (115)	0.1	1.2	2.5	22.2	28.2	34.7	43.3	71.2	97.1	5.2	22.9	32.6	33.2	34.0	31.0	32.7	34.8
26 (116)	0.5	1.3	2.3	24.8	29.1	33.9	42.7	62.8	78.5	0.0	22.0	32.1	32.7	33.3	30.6	32.1	33.8
27 (117)	0.4	1.3	3.8	22.3	28.9	35.9	35.0	62.2	88.2	3.2	26.5	31.9	32.5	33.3	30.3	32.4	34.6
28 (118)	0.2	1.2	3.6	22.7	28.6	34.5	38.7	68.7	96.5	0.0	23.8	32.0	32.6	33.2	30.6	32.4	34.2
29 (119)	0.2	1.3	4.4	22.5	27.9	34.6	46.1	70.0	95.3	0.2	22.8	31.8	32.4	32.9	30.5	32.3	34.3
30 (120)	0.3	1.1	2.4	22.8	29.1	35.6	41.1	64.9	90.5	0.0	23.3	31.8	32.5	33.3	30.4	32.6	35.1
	0.0	1.1	5.2	17.0	28.6	37.8	23.6	60.5	97.1	22.1	722	31.8	34.3	36.8	30.3	34.8	39.8

-99.00 indicate No data or Invalid data.

KERALA FOREST RESEARCH INSTITUTE. DAILY FOREST METEOROLOGICAL DATA  
 Station 3. Chinnar WLS 1st May 1998 to 31st May 1998

Day	Wind speed			Temperature			Humidity			Rain mm	Solar MJ/m <sup>2</sup>	Soil(15cm)			Soil(30cm)		
	m/s			oC			%					temp oC			temp oC		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Total	Total	Min	Avg	Max	Min	Avg	Max
1 (121)	0.1	1.0	2.3	22.7	28.9	35.2	40.6	68.1	95.7	0.0	21.3	32.2	32.9	33.6	31.0	33.1	35.6
2 (122)	0.0	1.0	2.5	22.8	29.5	35.9	31.9	62.7	95.7	0.0	25.4	32.4	33.1	34.1	31.2	33.7	36.5
3 (123)	0.1	1.0	2.5	24.6	29.9	35.4	34.3	61.9	87.3	0.0	24.0	33.0	33.8	34.7	32.3	34.6	37.2
4 (124)	0.1	1.3	3.2	24.5	29.4	35.7	40.1	67.4	95.3	0.0	25.5	33.5	34.3	35.2	32.8	35.2	38.1
5 (125)	0.1	0.9	2.5	22.1	29.8	36.6	31.2	62.6	93.0	0.0	25.6	33.8	34.7	35.5	32.9	35.5	38.3
6 (126)	0.0	1.0	2.6	24.0	30.4	36.6	32.1	61.0	86.7	0.0	23.5	34.2	35.0	35.7	33.5	35.8	38.4
7 (127)	0.1	1.1	2.6	24.7	30.0	36.0	31.4	59.4	87.8	0.0	22.6	34.5	35.2	35.8	33.9	35.9	38.1
8 (128)	0.2	1.1	2.6	21.9	29.5	35.6	29.9	56.5	85.3	0.0	25.7	34.3	35.1	36.0	33.3	35.8	38.7
9 (129)	0.2	1.0	2.8	24.9	28.0	34.6	41.4	73.9	95.1	0.6	17.2	34.8	35.4	35.9	34.3	35.7	37.6
10 (130)	0.2	0.8	2.4	23.2	26.5	33.1	54.7	85.1	97.9	1.4	16.1	33.7	34.3	35.3	32.3	33.6	35.1
11 (131)	0.2	0.9	2.3	22.8	26.0	32.7	58.5	84.6	97.9	4.6	12.9	32.5	33.0	33.8	30.7	31.9	33.2
12 (132)	0.2	0.8	2.4	22.4	27.1	31.9	58.6	78.8	98.1	0.0	18.6	31.2	31.8	32.5	29.2	30.9	32.9
13 (133)	0.1	1.0	2.3	23.5	28.5	33.5	38.7	70.1	97.5	0.0	20.3	31.1	31.7	32.5	29.6	31.6	33.9
14 (134)	0.2	0.9	2.3	23.7	27.8	32.5	46.7	71.5	93.3	0.2	16.6	31.7	32.2	32.7	30.5	32.2	33.9
15 (135)	0.2	0.8	2.0	23.2	26.2	30.2	63.4	82.3	96.7	0.4	10.6	31.7	32.1	32.6	30.6	31.6	32.5
16 (136)	0.2	0.7	2.0	22.1	24.6	30.5	56.6	86.4	97.9	5.6	10.6	30.7	31.2	32.0	29.1	30.0	30.9
17 (137)	0.2	0.7	2.1	20.1	26.9	34.5	43.3	76.7	97.8	0.0	19.4	29.5	30.1	30.8	27.5	29.5	31.8
18 (138)	0.1	1.2	3.3	22.9	30.1	36.9	35.6	62.1	96.2	0.0	24.3	30.1	30.9	32.1	28.9	31.3	34.3
19 (139)	0.3	1.2	2.6	22.3	29.6	35.8	42.3	63.7	93.0	0.0	23.1	31.2	31.9	33.0	30.1	32.6	35.4
20 (140)	0.1	1.0	2.9	22.6	29.3	36.8	37.7	67.6	93.4	0.0	24.0	32.0	32.8	33.8	31.2	33.7	36.5
21 (141)	0.0	1.0	2.8	22.3	28.7	35.4	46.6	70.5	96.4	0.0	22.3	32.7	33.5	34.3	31.9	34.3	36.9
22 (142)	0.1	1.0	3.9	22.1	27.4	35.8	44.7	76.4	96.0	2.8	20.3	33.0	33.7	34.2	32.2	34.0	36.5
23 (143)	0.3	0.9	2.3	22.6	28.6	35.7	43.1	13.2	97.7	0.0	22.7	32.1	32.9	33.7	30.6	32.7	35.1
24 (144)	0.2	1.0	2.5	22.3	29.7	37.3	37.2	66.4	93.4	0.0	25.3	32.1	33.0	34.2	30.8	33.7	37.0
25 (145)	0.3	1.3	3.0	23.3	30.2	36.6	32.0	61.8	93.6	0.0	24.1	33.2	33.9	34.9	32.4	35.0	37.8
26 (146)	0.4	1.4	2.5	25.5	30.6	36.8	37.6	61.1	77.7	0.0	24.1	34.0	34.7	35.7	33.6	36.0	39.0
27 (147)	0.3	1.1	3.9	24.0	29.7	35.5	40.0	60.2	85.4	0.0	21.2	34.6	35.2	35.7	34.0	36.2	38.2
28 (148)	0.3	1.2	3.3	23.2	29.2	37.3	33.8	62.5	86.3	0.0	22.4	34.5	35.2	36.0	33.7	36.2	39.0
29 (149)	0.1	1.1	3.5	22.7	29.7	35.9	37.9	63.2	87.3	0.0	22.2	34.6	35.3	36.0	33.7	36.1	38.5
30 (150)	0.2	1.0	2.3	22.6	30.2	37.8	29.9	58.7	88.6	0.0	25.6	34.8	35.6	36.5	33.9	36.7	39.7
31 (151)	0.1	1.1	4.0	22.1	29.0	36.7	38.1	62.6	89.4	0.0	22.8	35.2	36.0	36.6	34.4	36.9	39.5
	0.0	1.0	4.0	20.1	28.7	37.8	29.9	68.4	98.1	15.6	660	29.5	33.6	36.6	27.5	33.9	39.7

-99.00 indicate No data or Invalid data.



KERALA FOREST RESEARCH INSTITUTE. DAILY FOREST METEOROLOGICAL DATA  
Station 3, Chinnar WLS 1st June 1998 to 30th June 1998

Day	Wind speed			Temperature			Humidity			Rain mm	Solar MJ/m2	Soil(15cm)			Soil(30cm)		
	m/s			oc			%					temp oC			temp oc		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Total	Total	Min	Avg	Max	Min	Avg	Max
1 (152)	0.2	1.3	3.4	22.5	29.1	36.5	41.1	62.2	87.4	0.0	17.6	35.3	35.9	36.6	34.3	36.3	38.3
2 (153)	0.3	1.2	2.3	24.2	29.1	35.2	45.5	67.5	86.1	0.0	18.4	34.9	35.4	36.0	34.0	35.9	37.9
3 (154)	0.2	1.2	2.5	23.1	28.4	35.0	40.1	67.5	91.4	1.2	21.3	34.7	35.3	35.9	33.7	35.5	37.7
4 (155)	0.3	1.3	2.8	21.1	28.9	37.5	30.1	66.0	97.1	0.0	24.7	33.7	34.5	35.4	31.8	34.6	37.8
5 (156)	0.1	1.3	2.7	24.3	29.2	35.7	39.2	63.0	90.2	0.0	18.1	34.5	35.0	35.3	33.6	35.3	36.8
6 (157)	0.3	1.1	2.5	20.8	26.6	35.1	43.1	72.3	90.4	0.2	19.9	34.0	34.7	35.2	32.5	34.9	37.6
7 (158)	0.4	1.5	3.4	24.5	29.4	33.5	38.3	58.8	84.0	0.0	17.4	34.0	34.6	35.1	33.0	34.9	36.8
8 (159)	0.4	1.5	3.7	21.4	29.4	36.9	29.6	53.2	85.4	0.0	23.6	33.9	34.7	35.7	32.6	35.4	38.7
9 (160)	0.4	2.4	5.8	21.9	29.6	35.0	33.9	50.4	72.2	0.0	26.2	34.5	35.3	36.2	33.5	36.2	39.1
10 (161)	0.3	1.5	3.2	25.8	29.1	34.1	36.0	56.5	71.7	0.0	17.9	35.2	35.7	36.2	34.6	36.4	38.1
11 (162)	0.4	2.1	4.6	24.6	29.7	34.0	36.1	51.4	73.8	0.0	21.6	34.9	35.6	36.2	34.1	36.3	38.7
12 (163)	0.7	2.0	5.0	25.5	29.3	32.7	36.9	53.8	74.2	0.0	17.4	35.1	35.6	36.2	34.4	35.9	37.5
13 (164)	0.8	1.9	3.3	26.8	29.9	34.1	38.3	52.2	65.9	0.0	14.6	34.8	35.3	35.8	34.0	35.5	37.0
14 (165)	0.4	1.3	3.0	25.2	29.2	33.3	39.7	53.6	73.2	0.0	14.8	34.5	35.0	35.5	33.5	35.1	36.6
15 (166)	0.4	1.5	3.0	22.6	28.3	34.1	31.8	54.4	71.2	0.0	16.3	34.1	34.6	35.2	32.7	34.6	36.2
16 (167)	0.4	1.7	3.6	22.9	28.4	33.3	38.8	59.4	79.2	0.0	19.9	33.9	34.5	35.2	32.7	34.8	37.2
17 (168)	0.5	1.8	3.5	24.5	29.1	34.0	37.2	54.5	76.2	0.0	19.5	34.3	34.9	35.6	33.5	35.6	37.9
18 (169)	0.4	2.1	4.2	24.2	29.5	33.8	38.0	50.4	67.8	0.0	20.6	34.4	35.0	35.7	33.3	35.6	38.1
19 (170)	0.0	1.9	3.1	24.1	29.5	35.0	35.4	55.7	79.1	0.0	21.5	34.7	35.3	36.0	33.9	36.1	38.8
20 (171)	0.9	2.0	4.2	23.7	29.0	32.4	39.8	55.2	89.6	0.6	15.2	34.9	35.4	36.0	34.1	35.4	36.7
21 (172)	0.7	1.9	4.6	25.3	29.2	33.6	37.2	53.9	74.1	0.0	21.6	34.3	34.9	35.7	33.3	35.5	38.2
22 (173)	0.4	1.6	3.0	22.9	27.8	32.7	39.7	64.4	93.6	0.4	16.6	34.5	35.0	35.7	33.7	35.0	36.3
23 (174)	0.8	1.6	2.8	24.2	28.1	32.3	38.3	55.3	76.8	0.0	13.9	34.0	34.5	35.0	32.9	34.4	35.9
24 (175)	1.1	2.1	3.1	25.2	29.1	33.1	36.4	51.5	74.3	0.0	16.1	33.8	34.2	34.8	32.7	34.4	36.5
25 (176)	0.7	1.5	2.8	23.2	27.0	31.5	42.5	66.9	93.3	1.0	10.1	33.9	34.2	34.8	33.0	33.9	34.9
26 (177)	1.0	2.5	5.1	28.2	29.7	31.2	40.7	47.8	60.1	0.0	8.4	32.5	32.9	34.0	30.8	31.6	32.7
27 (178)	0.8	1.9	2.8	23.1	27.6	31.4	42.5	62.9	86.7	0.6	11.5	31.8	32.1	32.5	30.1	31.3	32.4
28 (179)	0.6	1.3	2.5	22.8	25.8	29.5	59.1	75.6	94.0	1.4	9.4	31.4	31.7	32.3	29.9	30.5	31.3
29 (180)	0.6	1.4	3.0	22.4	26.1	29.8	55.7	72.6	97.1	2.2	5.5	30.3	30.7	31.4	28.7	29.1	29.8
30 (181)	0.4	1.7	3.7	22.1	25.1	29.7	53.3	79.9	99.0	5.0	9.2	29.4	29.7	30.3	27.4	28.2	29.1
	0.0	1.7	5.8	20.8	28.5	37.5	29.6	59.6	99.0	12.6	509	29.4	34.4	36.6	27.4	34.5	39.1

-99.00 indicate No data or Invalid data.

KERALA FOREST RESEARCH INSTITUTE, DAILY FOREST METEOROLOGICAL DATA  
 Station 3, Chinnar WLS 1st July 1998 to 31st July 1998

Day	Wind speed			Temperature			Humidity			Rain mm	Solar MJ/m2	Soil(15cm)			Soil(30cm)		
	m/s			oC			%					temp oC			temp oC		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Total	Total	Min	Avg	Max	Min	Avg	Max
1 (182)	0.8	2.0	3.7	22.1	25.9	29.6	49.3	70.2	95.9	3.2	4.8	28.5	28.9	29.6	26.4	26.9	27.7
2 (183)	1.2	2.3	3.9	23.2	28.5	31.3	43.3	54.6	84.7	0.2	13.6	27.9	28.3	28.8	25.8	27.2	28.9
3 (184)	0.3	1.3	2.5	22.5	26.7	29.9	50.7	69.7	97.9	1.2	10.0	28.3	28.6	28.9	26.8	27.8	28.8
4 (185)	0.4	1.6	5.6	22.1	26.0	31.2	47.7	74.4	98.2	0.4	17.3	28.2	28.7	29.4	26.6	28.2	30.2
5 (186)	0.4	1.3	3.3	22.8	27.1	32.0	41.4	66.9	91.4	0.0	19.6	28.7	29.3	30.5	27.4	29.4	32.0
6 (187)	0.4	1.9	3.5	23.6	27.7	30.8	42.3	56.4	77.7	0.0	11.3	29.7	30.1	30.5	28.6	29.8	31.1
7 (188)	0.5	2.0	4.3	22.6	27.8	32.6	38.3	55.1	77.6	0.0	23.1	29.5	30.4	31.8	28.1	31.0	34.5
8 (189)	1.1	2.1	4.3	26.4	29.2	32.4	37.7	47.7	60.1	0.0	17.2	30.9	31.5	32.2	30.1	32.1	34.0
9 (190)	0.6	2.0	4.1	22.7	27.7	30.9	43.6	59.8	96.2	0.4	11.1	31.1	31.5	32.2	30.4	31.3	32.3
10 (191)	0.5	1.8	3.2	25.3	29.5	34.0	34.8	51.3	77.7	0.0	19.3	30.7	31.4	32.5	29.7	32.0	34.8
11 (192)	0.3	1.6	4.3	23.4	28.1	33.6	38.0	65.6	93.4	0.2	22.3	31.6	32.4	33.5	30.9	33.4	36.4
12 (193)	0.4	1.2	2.7	23.8	28.2	34.1	40.2	64.4	84.4	0.0	19.3	32.4	33.0	33.8	31.9	33.9	36.3
13 (194)	0.2	0.8	1.9	24.3	27.1	30.9	59.2	71.3	82.9	0.4	15.9	32.9	33.3	33.8	32.3	33.7	34.8
14 (195)	0.1	1.1	2.4	21.6	26.8	33.3	48.6	75.6	97.8	8.6	21.9	32.2	32.9	33.5	31.0	33.3	36.8
15 (196)	0.2	1.1	2.9	21.3	27.0	34.1	38.3	72.1	99.2	0.2	22.4	31.6	32.4	33.4	29.9	31.8	33.8
16 (197)	0.2	0.8	3.5	21.4	25.5	32.5	51.8	81.7	95.5	6.4	19.2	31.1	31.8	32.5	29.5	31.1	33.2
17 (198)	0.2	1.0	3.7	22.6	26.3	32.6	55.8	81.1	98.9	0.6	20.8	30.6	31.2	31.8	29.1	30.8	32.9
18 (199)	0.2	0.9	2.3	22.8	25.5	31.6	55.7	84.7	98.5	4.8	17.6	30.5	31.0	31.5	29.2	30.6	32.5
19 (200)	0.1	0.6	1.5	21.3	23.7	27.7	73.2	92.9	100.0	19.9	10.1	29.3	29.8	31.2	27.3	28.5	30.0
20 (201)	0.0	0.8	1.7	22.4	25.5	30.4	55.6	84.0	100.0	0.2	18.3	29.0	29.5	30.1	27.6	29.1	31.0
21 (202)	0.3	1.1	2.7	22.6	27.2	33.2	41.6	71.2	96.1	0.0	27.2	29.4	30.1	31.2	28.1	30.2	32.9
22 (203)	0.3	0.8	1.7	20.1	25.8	31.7	56.7	78.2	98.3	0.0	20.2	30.0	30.6	31.1	28.5	30.3	32.2
23 (204)	0.2	1.1	2.6	21.6	26.8	32.8	48.0	76.2	98.9	0.0	23.3	30.2	30.9	31.9	28.9	31.1	33.6
24 (205)	0.1	0.7	1.8	20.9	24.6	30.3	58.1	86.8	98.5	10.9	16.5	30.8	31.2	31.9	29.7	30.7	32.4
25 (206)	0.2	1.1	2.2	22.3	26.2	32.7	43.0	77.2	99.7	2.0	22.4	30.0	30.5	31.0	28.5	30.1	32.1
26 (207)	0.4	1.2	2.3	21.6	25.9	30.6	48.9	75.0	99.3	0.4	15.9	29.9	30.3	30.9	28.5	29.6	30.5
27 (208)	0.3	1.0	2.0	22.8	25.4	29.5	65.4	81.8	95.2	0.0	11.6	29.4	29.8	30.3	28.2	29.0	29.8
28 (209)	0.4	0.9	2.3	22.7	24.9	28.4	54.7	82.2	94.9	0.2	7.7	29.0	29.3	29.8	27.8	28.3	28.8
29 (210)	1.3	2.1	3.2	25.1	28.5	31.0	44.7	53.5	70.9	0.0	17.7	28.5	28.9	29.4	27.0	28.3	29.7
30 (211)	0.4	1.4	3.1	23.7	27.5	32.2	45.9	61.9	85.4	0.0	18.2	28.8	29.2	29.8	27.5	28.9	30.5
31 (212)	0.2	1.0	3.6	21.6	26.9	33.5	41.1	72.1	95.3	0.2	20.5	29.2	29.7	30.4	28.1	29.8	31.6
	0.0	1.3	5.6	20.1	26.8	34.1	34.8	70.8	100.0	60.4	536	27.9	30.5	33.8	25.8	30.3	36.8

-99.00 indicate No data or Invalid data.

KERALA FOREST RESEARCH INSTITUTE. DAILY FOREST METEOROLOGICAL DATA  
 Station 3, Chinnar WLS 1st August 1998 to 31st August 1998

Day	Wind speed			Temperature			Humidity			Rain mm	Solar MJ/m2	Soil(15cm)			Soil(30cm)		
	m/s			oc			%					temp oC			temp oc		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Total	Total	Min	Avg	Max	Min	Avg	Max
1 (213)	0.2	0.8	2.3	22.6	26.3	32.6	53.2	78.1	93.5	0.0	17.0	29.7	30.2	30.6	28.9	30.2	31.5
2 (214)	0.2	0.7	2.3	23.1	25.4	31.6	59.9	89.1	98.7	2.0	16.8	29.9	30.3	30.7	29.2	30.2	31.6
3 (215)	0.0	0.8	2.4	20.8	25.6	31.0	60.2	83.0	100.0	0.0	18.8	29.4	29.9	30.5	28.0	29.3	30.4
4 (216)	0.1	0.9	2.2	23.2	26.0	32.4	57.1	85.7	98.8	6.4	20.0	29.4	29.9	30.4	28.3	29.6	31.4
5 (217)	0.2	0.8	1.9	22.8	26.0	31.1	62.5	84.1	100.0	0.2	18.8	29.4	29.8	30.3	28.4	29.5	30.6
6 (218)	0.1	0.6	1.8	22.1	25.5	30.0	64.4	83.7	98.3	0.0	15.9	29.2	29.6	30.1	28.1	29.1	30.0
7 (219)	0.1	0.5	1.2	22.3	24.7	31.0	60.3	91.6	100.0	2.6	14.4	29.0	29.3	29.7	27.9	28.8	29.7
8 (220)	0.2	0.7	2.1	22.2	25.2	29.6	62.1	86.4	100.0	0.8	13.5	28.8	29.1	29.4	27.7	28.5	29.3
9 (221)	0.3	1.4	3.3	21.8	26.9	31.7	47.0	71.3	100.0	0.2	19.5	28.5	28.8	29.2	27.2	28.3	29.6
10 (222)	0.3	1.1	2.4	22.7	26.8	31.5	49.3	68.6	87.0	0.0	16.2	28.6	28.9	29.3	27.5	28.6	29.8
11 (223)	0.4	1.5	4.7	21.4	27.1	32.1	43.3	68.2	94.6	0.0	21.0	28.8	29.2	30.0	27.7	29.3	31.1
12 (224)	0.2	0.9	2.3	22.9	26.8	32.0	55.1	74.6	94.6	0.0	17.2	29.5	29.9	30.5	28.9	30.2	31.5
13 (225)	0.2	0.9	2.5	20.5	26.2	33.2	50.7	78.3	97.6	1.6	21.1	29.7	30.2	30.9	28.7	30.5	32.5
14 (226)	0.2	0.8	2.0	22.3	27.3	32.2	55.1	75.3	95.7	0.2	19.9	29.8	30.3	30.8	28.8	30.3	31.8
15 (227)	0.1	0.7	2.1	23.3	26.4	32.0	59.7	84.8	99.0	4.0	17.0	29.9	30.3	30.7	29.1	30.3	31.6
16 (228)	0.1	0.7	2.2	21.5	24.8	30.0	64.1	86.4	99.1	1.2	16.1	29.6	30.0	30.6	28.3	29.5	30.5
17 (229)	0.0	0.8	3.0	21.2	25.3	31.8	57.5	84.8	100.0	0.2	20.4	29.0	29.5	30.0	27.4	29.1	31.2
18 (230)	0.1	0.7	2.2	23.3	26.1	30.9	62.0	82.6	99.0	0.2	16.6	29.3	29.7	30.2	28.4	29.7	31.1
19 (231)	0.0	0.6	2.0	20.8	25.2	31.3	60.1	86.2	99.5	0.2	17.0	29.4	29.9	30.3	28.3	29.9	31.5
20 (232)	0.1	0.7	2.3	22.3	25.1	31.5	58.4	88.7	99.5	2.6	16.6	29.6	30.1	30.4	28.7	30.0	31.7
21 (233)	0.0	0.7	1.8	22.6	25.2	29.5	65.8	86.4	99.6	0.2	14.9	29.3	29.7	30.3	28.2	29.2	30.2
22 (234)	0.0	0.6	1.8	22.5	24.8	29.1	69.4	90.6	100.0	0.6	14.2	29.0	29.4	29.7	27.9	29.0	30.1
23 (235)	0.0	0.6	2.1	22.6	24.9	29.8	66.0	90.8	100.0	1.4	15.3	29.0	29.3	29.7	28.0	29.1	30.6
24 (236)	0.0	0.6	1.5	22.9	24.8	28.8	72.8	93.4	100.0	2.4	12.0	28.9	29.2	29.6	27.9	28.7	29.6
25 (237)	0.3	1.0	3.0	22.4	25.7	31.2	49.8	82.5	100.0	1.2	13.7	28.6	29.0	29.3	27.5	28.6	29.7
26 (238)	0.1	1.0	4.6	20.6	25.8	32.2	35.4	72.7	98.6	0.0	20.2	28.4	28.9	29.5	27.1	28.7	30.6
27 (239)	0.1	1.0	2.5	17.6	25.1	32.6	43.1	73.1	98.5	0.0	23.3	28.5	29.2	30.1	27.0	29.4	32.0
28 (240)	0.2	0.9	2.1	17.9	25.1	32.3	43.3	75.3	99.0	0.0	21.9	29.2	29.8	30.6	28.0	30.2	32.3
29 (241)	0.1	0.9	2.3	18.1	25.8	32.6	48.9	74.5	98.8	0.0	22.1	29.6	30.3	31.1	28.4	30.7	33.0
30 (242)	0.1	1.0	2.6	19.7	26.8	33.8	46.9	74.4	98.4	0.0	22.7	30.3	31.0	31.9	29.4	31.7	34.1
31 (243)	0.1	0.9	2.9	20.5	26.6	32.7	26.0	73.7	98.8	0.0	19.6	31.0	31.6	32.1	30.3	32.2	33.8
	0.0	0.8	4.7	17.6	25.8	33.8	26.0	81.3	100.0	28.3	554	28.4	29.8	32.1	27.0	29.6	34.1

-99.00 indicate No data or Invalid data.

KERALA FOREST RESEARCH INSTITUTE, DAILY FOREST METEOROLOGICAL DATA  
 Station 3, Chinnar WLS 1st September 1998 to 30th September 1998

Day	Wind speed			Temperature			Humidity			Rain	Solar	Soil(15cm)			Soil(30cm)		
	m/s			oC			%			mm	MJ/m2	temp oC			temp oC		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Total	Total	Min	Avg	Max	Min	Avg	Max
1 (244)	0.2	1.0	2.5	22.7	27.0	32.3	49.5	74.4	94.3	0.0	18.3	31.3	31.8	32.3	30.7	32.3	34.2
2 (245)	0.2	0.8	2.7	21.9	26.7	33.1	49.3	75.6	94.6	0.0	18.7	31.5	32.0	32.6	30.8	32.6	34.4
3 (246)	0.3	0.8	1.8	20.8	25.6	30.8	58.6	77.4	95.7	0.0	14.1	31.5	32.0	32.6	30.6	31.9	33.2
4 (247)	0.2	1.0	2.3	22.0	27.0	32.7	50.2	73.6	93.0	0.0	19.4	31.2	31.8	32.5	30.3	32.2	34.3
5 (248)	0.1	0.7	2.5	21.8	25.4	30.9	58.4	82.6	98.0	0.8	14.1	31.6	32.0	32.5	30.9	32.1	33.0
6 (249)	0.1	1.1	3.8	21.5	26.8	32.3	45.5	74.0	100.0	0.0	21.3	31.0	31.6	32.2	29.8	31.7	33.9
7 (250)	0.3	1.1	2.8	22.4	27.3	32.8	45.0	70.7	93.3	0.0	17.5	31.5	32.0	32.5	30.7	32.4	34.2
8 (251)	0.2	0.9	1.9	23.0	26.7	32.9	47.2	76.1	98.7	1.6	14.8	31.8	32.2	32.5	31.1	32.5	34.0
9 (252)	0.3	1.2	2.8	22.8	27.0	33.2	42.7	73.4	100.0	0.4	20.2	31.4	31.9	32.5	30.3	31.8	33.6
10 (253)	0.4	1.6	2.7	25.0	29.4	34.3	31.5	49.5	74.9	0.0	23.8	31.2	31.9	32.8	30.0	32.4	35.1
11 (254)	0.3	1.5	3.6	21.3	27.2	32.2	38.8	65.0	99.0	1.0	18.4	31.8	32.3	32.8	30.9	32.4	33.6
12 (255)	0.5	1.3	2.8	23.0	28.4	33.9	38.1	60.4	85.6	0.0	20.3	31.5	32.1	32.8	30.5	32.5	34.9
13 (256)	0.3	2.0	5.0	24.1	28.2	32.4	39.3	59.0	81.5	0.0	21.0	32.2	32.7	33.3	31.5	33.4	35.3
14 (257)	0.4	1.7	3.5	23.3	28.4	33.7	37.2	57.8	81.7	0.0	21.9	32.4	33.0	33.7	31.7	33.8	36.0
15 (258)	0.4	1.6	4.0	21.8	26.8	31.4	44.1	65.3	88.5	0.0	15.4	32.6	33.1	33.7	31.8	33.3	34.5
16 (259)	0.3	1.2	3.2	23.0	27.0	31.5	44.7	64.0	85.0	0.0	14.5	32.3	32.8	33.3	31.4	32.9	34.3
17 (260)	0.3	1.5	3.6	22.6	27.4	32.3	38.3	57.9	79.4	0.0	19.5	32.1	32.7	33.3	31.1	33.0	35.0
18 (261)	0.3	1.1	3.5	18.5	26.8	34.4	33.6	56.5	87.6	0.0	24.1	32.0	32.8	33.5	30.6	33.2	35.8
19 (262)	0.2	1.1	2.7	18.3	26.6	34.0	34.1	56.1	84.1	0.0	18.7	32.3	33.0	33.6	30.8	33.4	35.6
20 (263)	0.3	1.1	2.9	18.0	25.5	33.1	40.0	66.6	87.3	0.0	20.3	32.3	33.0	33.6	30.9	33.2	35.3
21 (264)	0.3	1.3	3.7	20.2	26.8	34.3	35.0	67.2	92.1	0.0	20.1	32.4	33.0	33.5	31.2	33.2	35.3
22 (265)	0.2	1.0	2.8	19.8	25.8	32.9	46.6	75.6	93.4	0.2	19.4	32.3	33.0	33.5	31.0	33.1	35.2
23 (266)	0.1	1.0	2.8	21.8	25.3	32.9	50.7	82.4	98.8	3.2	16.5	32.3	32.8	33.3	31.2	32.8	34.6
24 (267)	0.0	0.5	1.5	21.7	24.0	26.9	75.6	91.5	100.0	0.4	10.1	31.3	31.8	32.9	29.8	30.5	31.9
25 (268)	0.0	0.7	1.8	22.4	25.9	29.6	59.3	81.2	99.0	0.0	12.4	30.3	30.7	31.2	28.6	29.7	30.9
26 (269)	0.0	0.5	2.3	23.2	25.0	30.6	61.0	89.3	100.0	19.1	12.3	28.5	30.1	30.8	28.7	29.3	30.7
27 (270)	0.0	0.5	1.9	22.5	25.7	30.2	63.4	85.5	100.0	0.0	13.3	29.4	29.7	30.1	28.0	29.0	30.2
28 (271)	0.0	0.6	1.5	22.4	26.0	29.8	66.6	84.5	100.0	0.4	16.1	29.4	29.8	30.1	28.1	29.3	30.6
29 (272)	0.1	0.6	1.8	23.0	25.8	30.2	55.3	82.1	99.0	0.0	12.4	29.5	29.7	30.1	28.3	29.2	30.1
30 (273)	0.0	0.8	1.9	22.4	26.9	32.3	53.3	76.6	99.4	0.0	22.0	29.2	29.7	30.5	27.9	29.6	31.8
	0.0	1.1	5.0	18.0	26.6	34.4	31.5	71.7	100.0	27.1	531	28.5	31.9	33.7	27.9	31.9	36.0

-99.00 indicate No data or Invalid data.

## KERALA FOREST RESEARCH INSTITUTE. DAILY FOREST METEOROLOGICAL DATA

Station 3. Chinnar WLS 1st October 1998 to 31st October 1998

Day	Wind speed			Temperature			Humidity			Rain	Solar	Soil(15cm)			Soil(30cm)		
	m/s			oC			%			mm	MJ/m2	temp oC			temp oC		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Total	Total	Min	Avg	Max	Min	Avg	Max
1 (274)	0.1	0.8	2.4	20.8	26.3	32.8	48.7	76.1	98.5	0.0	20.5	29.6	30.2	30.9	28.4	30.3	32.3
2 (275)	0.0	0.7	2.8	22.6	25.9	32.0	56.1	83.2	96.7	0.4	16.9	30.2	30.6	30.9	29.3	30.5	31.8
3 (276)	0.0	0.9	2.9	22.0	25.8	31.6	47.0	76.0	100.0	0.0	13.7	30.0	30.3	30.8	28.9	29.9	31.0
4 (277)	0.3	1.1	2.6	20.3	26.6	33.7	37.6	64.6	92.7	0.2	20.0	29.6	30.2	30.7	28.2	30.0	31.8
5 (278)	0.1	1.0	2.2	21.7	26.1	32.2	41.0	69.6	88.0	0.0	16.1	29.9	30.3	30.7	28.8	30.2	31.6
6 (279)	0.1	0.8	2.4	21.8	25.4	30.4	58.6	79.7	94.0	3.2	14.1	30.0	30.3	30.7	29.0	30.0	31.0
7 (280)	0.1	0.7	2.2	22.3	26.3	30.9	59.4	78.9	97.9	0.0	15.7	29.4	29.8	30.3	28.0	29.1	30.2
8 (281)	0.1	0.8	2.8	22.1	26.4	31.7	48.0	77.0	97.8	0.2	16.4	29.2	29.6	29.9	27.9	29.2	30.5
9 (282)	0.1	0.7	2.5	22.0	26.1	31.8	48.7	77.9	97.8	0.0	14.9	29.2	29.6	30.1	28.0	29.4	30.9
10 (283)	0.2	0.7	1.9	22.6	25.8	29.3	66.3	81.2	96.0	0.0	12.4	29.5	29.8	30.1	28.5	29.7	30.8
11 (284)	0.0	0.3	1.1	23.1	24.1	26.7	85.8	98.0	100.0	4.0	7.1	29.4	29.7	30.1	28.2	29.0	29.9
12 (285)	0.0	0.4	1.2	22.9	24.0	26.9	84.5	97.0	100.0	0.0	7.6	28.6	28.8	29.3	27.4	27.9	20.4
13 (286)	0.0	0.4	1.3	22.6	25.2	29.9	67.2	88.5	100.0	0.0	13.9	28.0	28.4	28.8	26.9	27.8	29.0
14 (287)	0.0	0.8	2.4	22.2	24.3	27.9	59.4	86.8	100.0	0.2	8.3	28.0	28.2	28.7	26.9	27.4	28.0
15 (288)	0.2	1.0	2.7	21.3	24.8	30.1	51.2	78.5	100.0	0.0	9.5	27.3	27.6	28.0	26.0	26.7	27.4
16 (289)	0.1	0.8	1.9	20.0	25.4	32.3	47.5	80.2	100.0	0.0	21.9	27.0	27.5	28.2	25.6	27.2	29.0
17 (290)	0.0	0.7	2.3	19.4	25.4	32.1	56.8	82.4	100.0	0.2	19.8	27.3	27.9	28.4	26.0	27.6	29.1
18 (291)	0.1	1.2	4.1	20.7	26.3	32.2	43.6	73.5	100.0	0.0	20.4	27.7	28.2	28.6	26.6	28.0	29.3
19 (292)	0.2	0.9	2.3	18.9	25.9	33.3	33.6	65.1	98.1	0.0	24.5	27.8	28.4	29.2	26.5	28.5	30.8
20 (293)	0.1	0.7	1.8	15.4	24.0	32.6	41.9	72.2	98.7	0.0	23.6	27.9	28.6	29.3	26.3	28.5	30.8
21 (294)	0.1	0.7	2.0	17.4	24.4	31.1	47.8	75.7	99.0	0.0	23.5	28.3	28.9	29.7	27.0	29.1	31.4
22 (295)	0.0	0.7	2.5	18.8	24.7	30.5	54.6	78.2	99.9	0.0	21.0	28.7	29.3	29.9	27.7	29.6	31.6
23 (296)	0.0	0.7	2.1	20.7	25.2	30.5	50.4	76.1	96.4	0.0	19.4	29.1	29.7	30.3	28.3	30.0	31.9
24 (297)	0.0	0.7	2.0	17.9	25.1	30.6	55.6	77.3	100.0	0.0	17.7	29.1	29.7	30.2	27.9	29.8	31.4
25 (298)	0.0	1.0	2.9	20.2	25.6	31.0	57.6	77.4	99.6	0.0	20.1	29.5	30.0	30.7	28.6	30.5	32.6
26 (299)	0.0	1.1	3.7	20.0	25.4	32.7	47.5	77.4	100.0	0.0	20.4	29.8	30.4	31.0	28.9	30.8	33.1
27 (300)	0.3	0.9	2.2	21.5	25.7	31.2	56.2	81.8	99.4	0.0	19.0	29.4	29.9	30.8	28.0	29.4	30.6
28 (301)	0.0	0.8	2.2	22.9	25.7	30.2	58.2	81.6	100.0	0.0	16.3	29.0	29.4	29.9	28.0	28.9	29.9
29 (302)	0.0	0.8	2.2	20.3	26.0	31.4	50.1	75.5	100.0	0.0	20.9	28.5	29.0	29.6	27.0	28.8	30.5
30 (303)	0.1	0.7	2.2	19.9	25.6	31.6	48.0	77.1	99.5	0.0	16.3	28.6	29.1	29.5	27.4	28.9	30.3
31 (304)	0.1	0.8	2.0	20.1	24.8	30.6	58.2	82.8	99.5	0.0	14.4	28.8	29.2	29.5	27.7	28.9	30.3
	0.0	0.8	4.1	15.4	25.4	33.7	33.6	78.9	100.0	8.4	526	27.0	29.3	31.0	25.6	29.1	33.1

-99.00 indicate No data or Invalid data.

KERALA FOREST RESEARCH INSTITUTE. DAILY FOREST METEOROLOGICAL DATA  
 Station 3, Chinnar WLS 1st November 1998 to 30th November 1998

Day	Wind speed			Temperature			Humidity			Rain	Solar	Soil(15cm)			Soil(30cm)		
	m/s			oC			%			mm	MJ/m2	temp oC			temp oC		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Total	Total	Min	Avg	Max	Min	Avg	Max
1 (305)	0.0	0.6	1.4	19.7	24.4	29.7	60.4	85.2	100.0	0.0	18.2	28.0	28.5	29.2	26.4	27.7	29.1
2 (306)	0.2	0.7	1.8	20.9	23.7	27.6	66.6	89.1	100.0	0.0	14.0	28.0	28.3	28.6	26.9	27.7	28.6
3 (307)	0.0	0.5	0.9	21.1	22.9	25.5	83.4	95.8	100.0	0.0	6.6	27.4	27.7	28.3	26.2	26.7	27.2
4 (308)	0.2	0.4	0.8	20.6	21.2	22.0	99.3	100.0	100.0	0.0	2.3	24.4	25.7	27.3	23.2	24.3	26.2
5 (309)	0.0	0.3	0.8	20.9	22.7	25.1	86.9	97.1	100.0	0.0	4.2	24.6	24.9	25.4	23.3	24.1	25.0
6 (310)	0.1	0.7	2.5	21.8	24.5	30.0	61.4	88.6	100.0	0.0	17.0	25.4	25.8	26.4	24.6	25.5	27.3
7 (311)	0.1	0.6	1.6	20.5	24.3	28.8	71.1	90.5	100.0	0.0	14.4	26.0	26.3	26.8	25.0	26.1	27.3
8 (312)	0.3	0.8	2.0	21.5	23.7	27.6	77.4	94.1	100.0	0.0	14.3	23.6	26.2	27.0	23.5	26.0	27.6
9 (313)	0.1	0.7	1.7	20.9	23.5	28.1	72.9	93.2	100.0	0.0	13.1	24.6	25.6	26.4	24.0	25.2	26.7
10 (314)	0.1	0.5	2.0	21.8	23.4	26.7	79.3	95.7	100.0	0.2	11.4	24.6	25.3	26.0	23.9	24.9	26.3
11 (315)	0.0	0.8	1.7	19.0	24.3	29.6	51.3	81.9	100.0	0.0	22.0	25.7	26.1	26.8	24.9	26.1	27.8
12 (316)	0.1	0.9	2.2	16.9	23.3	30.3	41.7	78.7	100.0	0.0	23.0	25.8	26.3	26.8	24.3	26.0	27.6
13 (317)	0.1	0.7	1.6	19.8	24.6	30.4	58.1	83.8	100.0	0.0	20.7	26.1	26.6	27.1	25.0	26.5	28.1
14 (318)	0.1	0.6	1.8	20.6	24.7	29.2	65.9	85.7	100.0	0.2	18.4	26.6	27.0	27.4	25.8	27.0	28.2
15 (319)	0.2	0.7	1.9	18.4	23.6	29.9	61.3	81.5	100.0	0.0	21.6	26.5	27.0	27.5	25.4	26.9	28.5
16 (320)	0.3	0.8	2.1	15.0	22.8	29.8	46.9	76.8	97.2	0.0	22.4	26.3	26.8	27.4	24.6	26.5	28.3
17 (321)	0.0	0.7	1.7	16.8	24.2	30.3	53.9	80.2	99.1	0.0	19.8	26.5	27.0	27.4	25.3	26.9	28.4
18 (322)	0.2	0.6	1.4	18.4	23.9	29.9	61.3	85.8	100.0	0.0	16.7	26.7	27.1	27.4	25.6	26.9	28.1
19 (323)	0.1	0.7	1.8	17.6	23.4	29.8	61.0	83.8	100.0	0.0	21.2	26.6	27.1	27.6	25.4	27.0	28.7
20 (324)	0.0	0.7	2.3	15.9	22.4	29.8	54.7	81.6	100.0	0.0	20.0	26.5	27.1	27.5	25.2	26.8	28.4
21 (325)	0.1	0.7	2.1	17.3	23.0	29.5	60.2	85.2	100.0	0.0	18.4	26.5	27.0	27.4	25.3	26.8	28.3
22 (326)	0.2	0.7	1.6	18.2	23.7	29.1	62.1	84.1	100.0	0.0	17.9	26.7	27.1	27.5	25.6	26.9	28.2
23 (327)	0.1	0.6	1.7	18.1	23.8	29.7	59.4	84.2	100.0	0.0	19.3	26.8	27.3	27.7	25.8	27.2	28.8
24 (328)	0.1	0.7	1.6	18.5	23.6	29.5	61.2	84.4	100.0	0.0	18.0	27.0	27.4	27.7	25.9	27.2	28.5
25 (329)	0.2	0.6	1.7	17.3	23.1	28.5	65.0	85.7	100.0	0.0	17.1	26.9	27.3	27.7	25.7	27.0	28.3
26 (330)	0.2	0.7	1.7	17.7	23.7	29.8	56.1	81.5	100.0	0.0	20.0	26.8	27.2	27.7	25.6	27.1	28.7
27 (331)	0.1	0.6	2.0	19.5	24.1	28.8	64.8	84.4	100.0	0.0	17.1	27.1	27.5	27.8	26.3	27.4	28.6
28 (332)	0.1	0.5	1.3	21.5	24.0	27.4	62.8	82.7	98.6	0.0	12.3	27.3	27.6	27.8	26.6	27.4	28.2
29 (333)	0.1	0.6	1.4	18.1	23.8	29.4	60.2	83.6	100.0	0.0	17.1	27.1	27.5	27.9	26.0	27.4	28.7
30 (334)	0.2	0.7	1.9	17.7	23.9	29.7	60.4	83.3	100.0	0.0	18.7	27.1	27.5	27.9	26.0	27.4	28.9
	0.0	0.6	2.5	15.0	23.6	30.4	41.7	86.3	100.0	0.4	497	23.6	26.9	29.2	23.2	26.6	29.1

-99.00 indicate No data or Invalid data.

KERALA FOREST RESEARCH INSTITUTE, DAILY FOREST METEOROLOGICAL DATA  
Station 3. Chinnar WLS 1st December 1998 to 31st December 1998

Day	Wind speed			Temperature			Humidity			Rain	Solar	Soil(15cm)			Soil(30cm)		
	m/s			oC			%			mm	MJ/m2	temp oC			temp oC		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Total	Total	Min	Avg	Max	Min	Avg	Max
1 (335)	0.2	0.6	1.5	21.5	24.4	28.5	68.4	89.9	100.0	0.0	14.8	27.4	27.6	27.9	26.5	27.4	28.2
2 (336)	0.2	0.6	1.8	20.4	24.2	28.7	66.4	87.5	100.0	0.0	15.7	27.0	27.3	27.6	26.0	26.9	28.0
3 (337)	0.0	0.5	1.6	18.0	23.1	28.0	53.8	82.4	100.0	0.0	18.8	26.5	26.9	27.5	25.0	26.3	27.5
4 (338)	0.0	0.5	1.3	21.7	24.0	27.8	66.6	86.8	100.0	0.0	12.9	26.6	26.9	27.1	25.7	26.5	27.3
5 (339)	0.2	0.6	1.8	21.5	23.2	26.4	78.1	95.8	100.0	0.8	7.2	26.6	26.7	27.0	25.7	26.1	26.5
6 (340)	0.1	0.5	1.1	19.5	22.7	26.6	58.1	84.1	100.0	0.0	10.4	26.2	26.4	26.7	25.1	25.5	26.0
7 (341)	0.2	0.7	1.4	19.0	22.9	27.7	65.8	84.2	100.0	0.0	14.4	25.6	25.9	26.3	24.1	25.1	26.2
8 (342)	0.4	1.0	1.7	20.7	22.7	26.6	68.5	92.9	100.0	16.4	8.7	24.7	25.6	26.1	23.7	24.9	25.6
9 (343)	0.4	1.1	2.0	21.2	22.0	23.5	94.3	99.2	100.0	24.9	2.7	24.8	25.1	25.8	23.9	24.3	25.0
10 (344)	0.2	0.5	1.1	21.3	22.5	25.0	94.2	99.6	100.0	19.5	3.6	24.8	24.9	25.0	23.9	24.2	24.8
11 (345)	0.0	0.3	1.5	20.6	21.8	22.5	100.0	100.0	100.0	26.3	1.5	24.0	24.4	24.8	23.4	23.7	24.1
12 (346)	0.0	0.5	0.9	20.3	22.1	25.0	86.1	97.4	100.0	2.2	6.1	24.3	24.4	24.8	23.4	23.9	24.6
13 (347)	0.0	0.8	2.0	20.6	22.2	25.0	88.4	97.9	100.0	12.8	6.9	24.6	24.7	24.9	23.8	24.3	24.9
14 (348)	0.1	0.6	2.3	19.8	21.6	24.5	82.1	95.6	100.0	0.8	5.6	24.4	24.5	24.7	23.5	23.9	24.4
15 (349)	0.0	0.4	1.3	20.8	23.0	26.9	74.5	93.7	100.0	0.2	11.0	24.5	24.7	25.0	23.7	24.3	25.2
16 (350)	0.2	0.6	1.6	21.3	23.5	26.8	76.5	92.4	100.0	0.0	12.0	24.9	25.1	25.4	24.3	24.9	25.6
17 (351)	0.1	0.8	2.1	19.5	23.3	27.8	61.1	86.2	100.0	0.0	20.0	25.1	25.4	25.8	24.5	25.4	26.5
18 (352)	0.0	0.6	1.7	18.0	22.5	27.5	66.7	88.9	100.0	0.0	14.0	25.0	25.3	25.8	24.0	24.8	25.6
19 (353)	0.1	0.6	1.9	18.9	23.3	27.7	68.6	88.3	100.0	0.0	16.7	25.1	25.4	25.7	24.1	25.2	26.1
20 (354)	0.0	0.4	0.8	18.4	21.2	26.4	70.1	94.5	100.0	0.0	6.0	25.1	25.3	25.7	24.1	24.5	25.2
21 (355)	0.0	0.5	1.5	16.3	20.5	25.8	69.9	90.2	100.0	0.0	13.8	24.3	24.7	25.1	22.9	23.8	24.9
22 (356)	0.1	0.6	1.4	16.1	20.9	25.4	68.5	88.1	100.0	0.0	14.9	24.1	24.5	24.8	22.7	23.8	24.8
23 (357)	0.1	0.7	1.9	14.5	20.6	26.9	59.6	84.2	100.0	0.2	19.6	24.0	24.4	24.8	22.4	23.8	25.1
24 (358)	0.3	0.8	1.7	13.8	20.3	27.1	60.1	84.4	100.0	0.0	20.4	23.9	24.3	24.7	22.2	23.7	25.0
25 (359)	0.2	0.9	1.8	13.1	19.2	26.6	39.8	80.2	100.0	0.0	20.8	23.8	24.2	24.6	22.1	23.5	24.9
26 (360)	0.1	0.8	1.7	13.5	20.0	27.1	55.8	81.7	100.0	0.0	19.9	23.6	24.0	24.5	21.9	23.4	24.9
27 (361)	0.1	0.4	0.9	17.9	21.4	24.2	81.7	93.6	100.0	0.4	3.5	24.0	24.1	24.4	23.2	23.5	23.8
28 (362)	0.0	0.5	1.3	20.6	22.7	25.0	79.3	91.0	100.0	0.6	6.5	24.0	24.2	24.4	23.3	23.8	24.3
29 (363)	0.1	0.5	1.3	18.8	22.8	26.8	69.6	90.0	100.0	0.0	11.1	24.2	24.4	24.7	23.6	24.2	24.9
30 (364)	0.1	0.6	1.5	16.3	21.6	27.8	61.4	86.9	100.0	0.2	18.3	24.0	24.4	24.8	22.8	24.0	25.2
31 (365)	0.1	0.8	2.2	16.8	21.9	26.2	70.4	87.1	100.0	0.0	16.2	24.2	24.5	25.0	23.1	24.3	25.5
	0.0	0.6	2.3	13.1	22.2	28.7	39.8	90.2	100.0	105.2	374	23.6	25.2	27.9	21.9	24.6	28.2

-99.00 indicate No data or Invalid data.

KERALA FOREST RESEARCH INSTITUTE, DAILY FOREST METEOROLOGICAL DATA  
Station 3. Chinnar WLS 1st January 1999 to 31st January 1999

Day	Wind speed			Temperature			Humidity			Rain mm	Solar MJ/m2	Soil(15cm) temp oC			Soil(30cm) temp oC		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max			Total	Total	Min	Avg	Max	Min
1 ( 1)	0.0	0.5	1.1	18.6	22.5	26.7	69.1	86.6	100.0	0.0	13.3	24.6	24.9	25.2	23.8	24.7	25.6
2 ( 2)	0.2	0.6	1.5	17.3	21.5	26.1	67.0	87.6	100.0	0.0	13.3	24.7	25.0	25.2	23.9	24.8	25.6
3 ( 3)	0.1	0.8	1.8	15.6	21.2	26.5	61.7	80.6	100.0	0.0	20.7	24.4	24.8	25.2	23.1	24.4	25.8
4 ( 4)	0.1	0.7	1.7	14.4	20.7	25.5	65.1	84.5	100.0	0.0	16.3	24.6	24.9	25.2	23.5	24.6	25.4
5 ( 5)	0.1	0.7	1.5	15.5	21.4	27.4	64.0	85.2	100.0	0.0	19.1	24.5	24.9	25.3	23.2	24.6	25.9
6 ( 6)	0.2	0.6	1.4	16.4	22.6	29.3	59.1	84.8	100.0	0.0	19.7	24.7	25.1	25.6	23.6	25.0	26.5
7 ( 7)	0.2	0.8	1.9	15.2	22.5	29.2	56.9	81.7	100.0	0.0	20.1	24.9	25.4	25.8	23.9	25.4	26.8
8 ( 8)	0.2	0.7	2.1	17.0	22.0	28.2	54.3	83.7	100.0	0.0	16.2	25.2	25.5	25.9	24.3	25.4	26.6
9 ( 9)	0.2	0.7	2.0	14.8	21.6	28.1	59.5	83.0	100.0	0.0	17.0	25.0	25.4	25.8	23.7	25.1	26.4
10 ( 10)	0.2	0.8	1.8	14.8	22.0	28.6	57.3	81.8	100.0	0.0	20.7	25.0	25.4	25.9	23.7	25.3	26.7
11 ( 11)	0.1	0.5	1.5	16.6	21.4	26.4	58.4	82.9	100.0	0.2	9.9	25.2	25.5	25.9	24.3	25.1	25.8
12 ( 12)	0.2	0.8	2.0	13.7	21.0	27.9	58.1	81.4	100.0	0.0	21.2	24.8	25.2	25.6	23.3	24.9	26.4
13 ( 13)	0.2	0.9	2.0	14.0	21.0	28.2	52.9	81.1	100.0	0.0	18.5	24.8	25.3	25.7	23.5	25.0	26.4
14 ( 14)	0.2	0.9	1.9	13.2	21.7	27.7	57.6	81.0	100.0	0.0	16.9	24.7	25.2	25.6	23.3	24.9	26.2
15 ( 15)	0.2	0.6	1.4	18.2	22.4	25.9	71.0	86.5	100.0	0.0	9.0	25.3	25.4	25.6	24.6	25.3	25.8
16 ( 16)	0.1	0.5	1.4	15.6	20.9	26.8	63.6	87.1	100.0	0.0	13.5	24.8	25.2	25.6	23.6	24.7	25.7
17 ( 17)	0.2	0.7	1.8	15.4	21.0	26.3	68.4	86.9	100.0	0.0	16.0	24.7	25.1	25.5	23.5	24.8	26.0
18 ( 18)	0.1	0.8	2.3	14.3	20.9	28.6	49.8	81.9	100.0	0.0	21.3	24.7	25.2	25.7	23.4	24.9	26.5
19 ( 19)	0.1	0.8	1.8	13.8	20.5	28.7	47.7	81.1	100.0	0.0	22.0	24.8	25.3	25.8	23.4	25.1	26.7
20 ( 20)	0.0	0.9	2.1	12.2	19.9	27.8	42.5	77.7	100.0	0.0	22.3	24.8	25.3	25.8	23.2	25.0	26.5
21 ( 21)	0.2	0.7	1.6	11.4	18.7	26.9	51.8	80.9	100.0	0.0	16.9	24.6	25.1	25.7	23.0	24.5	25.8
22 ( 22)	0.0	0.6	1.3	11.1	18.6	26.1	58.7	82.1	100.0	0.0	15.1	24.2	24.6	25.3	22.5	23.8	24.9
23 ( 23)	0.3	0.8	1.9	13.3	20.0	27.8	54.1	81.4	100.0	0.0	19.9	24.1	24.6	25.1	22.7	24.2	25.8
24 ( 24)	0.1	0.7	1.8	11.9	19.3	26.6	55.1	81.5	100.0	0.0	15.4	24.2	24.6	25.1	22.6	24.1	25.2
25 ( 25)	0.1	0.9	2.5	11.7	20.3	29.3	28.9	67.6	98.5	0.0	20.7	24.1	24.6	25.1	22.6	24.2	25.7
26 ( 26)	0.3	1.0	1.8	10.2	19.5	29.5	25.8	63.4	96.8	0.0	21.4	24.1	24.7	25.2	22.5	24.3	26.0
27 ( 27)	0.3	1.1	2.0	10.1	19.7	29.6	27.9	62.1	97.5	0.0	23.1	24.1	24.7	25.2	22.4	24.3	26.2
28 ( 28)	0.1	0.9	1.8	9.9	20.1	30.5	27.1	64.6	98.1	0.0	21.8	24.1	24.7	25.3	22.5	24.4	26.3
29 ( 29)	0.1	0.8	1.8	12.4	20.9	30.0	35.2	75.1	100.0	0.0	20.7	24.4	25.0	25.5	23.0	24.8	26.6
30 ( 30)	0.1	0.8	1.9	12.5	21.1	30.0	33.8	73.3	100.0	0.0	21.4	24.7	25.2	25.8	23.4	25.2	27.0
31 ( 31)	0.0	0.8	2.0	13.1	21.4	30.1	36.3	74.6	100.0	0.0	21.7	24.9	25.5	26.0	23.7	25.5	27.3
	0.0	0.7	2.5	9.9	20.9	30.5	25.8	79.8	100.0	0.2	565	24.1	25.1	26.0	22.4	24.8	27.3

-99.00 indicate No data or Invalid data.



KERALA FOREST RESEARCH INSTITUTE. DAILY FOREST METEOROLOGICAL DATA  
 Station 3, Chinnar WLS 1st February 1999 to 28th February 1999

Day	Wind speed			Temperature			Humidity			Rain mm	Solar MJ/m2	Soil(15cm)			Soil(30cm)		
	m/s			oc			%					temp oC			temp oC		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Total	Total	Min	Avg	Max	Min	Avg	Max
1 ( 32)	0.1	0.8	1.9	12.6	20.6	29.2	32.2	69.1	100.0	0.0	21.7	25.1	25.6	26.1	23.8	25.5	27.2
2 ( 33)	0.0	0.9	2.2	12.3	22.0	29.7	42.2	72.4	100.0	0.0	22.5	25.0	25.6	26.2	23.6	25.6	27.5
3 ( 34)	0.1	0.8	2.0	17.0	23.6	29.2	59.2	79.9	100.0	0.0	16.9	25.8	26.2	26.7	25.1	26.6	28.0
4 ( 35)	0.1	0.8	2.0	18.2	23.9	29.6	61.7	83.6	100.0	0.0	16.4	26.2	26.7	27.3	25.6	27.2	28.8
5 ( 36)	0.2	0.8	2.0	19.9	24.6	29.6	64.8	82.4	99.2	0.0	15.3	26.7	27.1	27.7	26.3	27.7	29.2
6 ( 37)	0.0	0.9	2.5	20.1	24.9	30.8	48.4	76.9	100.0	0.0	18.9	27.1	27.5	28.1	26.8	28.1	29.6
7 ( 38)	0.2	0.8	1.9	18.9	23.7	29.3	58.1	79.8	98.1	0.0	15.3	27.3	27.7	28.1	26.7	28.0	29.3
8 ( 39)	0.2	0.7	1.5	19.4	23.0	27.3	69.1	88.1	99.6	0.0	9.3	27.3	27.6	28.0	26.8	27.7	28.3
9 ( 40)	0.1	0.8	2.5	17.0	22.9	29.9	48.4	79.4	100.0	0.0	20.8	26.7	27.2	27.9	25.6	27.4	29.5
10 ( 41)	0.0	0.8	2.0	15.1	22.8	29.9	56.9	80.1	100.0	0.0	19.7	26.9	27.5	28.1	25.9	27.8	29.7
11 ( 42)	0.0	1.0	2.5	18.2	23.5	30.3	37.7	73.0	100.0	0.0	21.6	27.3	27.9	28.5	26.6	28.4	30.3
12 ( 43)	0.1	0.9	2.3	14.2	22.6	29.8	41.1	72.5	100.0	0.0	23.5	27.4	28.0	28.6	26.4	28.4	30.4
13 ( 44)	0.0	0.9	2.6	17.5	23.7	31.0	38.1	71.3	99.2	0.0	21.5	27.8	28.3	29.0	27.0	28.9	30.8
14 ( 45)	0.2	0.9	2.5	15.9	23.4	31.1	46.1	74.3	100.0	0.0	19.4	27.9	28.5	29.0	26.9	28.9	30.8
15 ( 46)	0.2	1.0	2.2	16.3	23.8	31.0	40.7	74.0	100.0	0.0	21.9	27.9	28.6	29.2	27.0	29.0	31.0
16 ( 47)	0.1	0.9	2.3	15.3	23.6	30.8	42.7	73.0	100.0	0.0	20.9	28.1	28.7	29.2	27.2	29.1	30.8
17 ( 48)	0.2	1.1	2.8	17.4	24.2	31.7	35.6	69.2	100.0	0.0	22.7	28.2	28.8	29.5	27.4	29.4	31.4
18 ( 49)	0.3	0.7	1.7	14.9	22.5	29.0	58.5	78.2	99.6	0.0	12.5	28.3	28.8	29.5	27.3	28.7	29.9
19 ( 50)	0.3	0.8	2.3	16.4	21.9	27.9	39.7	72.0	100.0	0.0	8.1	27.6	28.0	28.8	26.5	27.4	28.6
20 ( 51)	0.1	0.9	1.9	19.8	22.7	26.7	59.2	80.0	98.8	1.2	9.5	27.0	27.3	27.7	26.1	26.9	27.8
21 ( 52)	0.1	1.0	2.0	20.4	25.2	30.4	47.7	74.2	100.0	0.0	14.7	26.9	27.3	27.6	26.1	27.3	28.5
22 ( 53)	0.1	0.9	2.0	18.0	24.1	30.1	51.6	75.1	98.3	0.0	14.1	26.9	27.3	27.6	25.8	27.1	28.1
23 ( 54)	0.3	1.1	2.8	16.3	23.0	30.2	39.7	72.8	100.0	0.0	17.5	26.6	27.2	27.8	25.4	27.2	29.1
24 ( 55)	0.3	1.2	3.1	11.8	22.3	31.5	27.8	62.7	100.0	0.0	24.3	26.5	27.3	28.0	24.9	27.4	29.8
25 ( 56)	0.4	1.2	2.5	13.7	22.9	32.0	21.7	56.1	98.1	0.0	25.3	27.0	27.7	28.6	25.8	28.2	30.6
26 ( 57)	0.4	1.2	2.2	12.3	22.0	32.0	20.5	52.5	90.7	0.0	25.9	27.2	28.0	28.8	25.8	28.3	30.7
27 ( 58)	0.4	1.2	2.5	11.2	22.6	31.7	30.7	57.4	92.4	0.0	25.0	27.3	28.1	28.9	25.8	28.4	30.8
	0.0	0.9	3.1	11.2	23.2	32.0	20.5	73.3	100.0	1.2	505	25.0	27.6	29.5	23.6	27.8	31.4

-99.00 indicate No data or Invalid data

KERALA FOREST RESEARCH INSTITUTE, DAILY FOREST METEOROLOGICAL DATA  
Station 3. Chinnar WLS 1st March 1999 to 31st March 1999

Day	Wind speed			Temperature			Humidity			Rain mm	Solar MJ/m2	Soil(15cm) temp oC			Soil(30cm) temp oC		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max			Min	Avg	Max	Min	Avg	Max
1 ( 60)	0.0	1.0	2.5	16.2	24.1	31.5	45.3	72.3	100.0	0.0	18.2	28.3	28.9	29.4	27.5	29.4	30.9
2 ( 61)	0.2	1.2	2.7	15.5	24.5	32.9	31.5	65.5	99.5	0.0	25.1	28.2	28.9	29.8	27.2	29.5	32.0
3 ( 62)	0.4	1.5	3.3	14.4	24.1	33.5	19.8	56.1	97.5	0.0	24.7	28.6	29.3	29.9	27.5	29.8	32.0
4 ( 63)	0.1	1.2	2.8	12.7	23.4	33.2	21.8	50.1	84.0	0.0	25.4	28.5	29.3	29.9	27.2	29.7	32.0
5 ( 64)	0.2	0.9	2.2	13.8	24.1	33.5	25.7	54.9	89.8	0.0	24.3	28.6	29.4	30.1	27.4	29.8	32.1
6 ( 65)	0.1	0.9	2.3	16.5	24.8	32.6	25.9	55.5	91.9	0.0	23.5	29.0	29.7	30.4	28.1	30.3	32.6
7 ( 66)	0.3	1.2	3.0	14.0	23.7	33.0	17.9	48.2	87.7	0.0	25.2	29.0	29.8	30.4	27.8	30.2	32.5
8 ( 67)	0.3	1.2	2.5	13.1	23.2	33.0	19.3	46.3	77.0	0.0	23.9	28.9	29.6	30.4	27.5	29.8	32.0
9 ( 68)	0.0	1.0	2.6	12.9	23.7	33.7	22.0	49.7	85.9	0.0	24.0	28.7	29.5	30.2	27.3	29.7	32.0
10 ( 69)	0.0	0.8	2.5	14.4	24.1	33.8	26.5	56.1	88.3	0.0	23.0	28.9	29.6	30.3	27.7	30.0	32.2
11 ( 70)	0.1	0.9	2.3	13.8	23.9	33.6	18.5	53.0	91.5	0.0	24.6	29.0	29.7	30.4	27.8	30.1	32.3
12 ( 71)	0.0	1.0	2.9	14.1	24.4	33.9	26.2	53.7	84.1	0.0	24.2	29.1	29.8	30.5	27.6	30.2	32.6
13 ( 72)	0.0	0.9	2.8	15.9	25.9	34.5	39.4	64.2	92.9	0.0	24.4	29.5	30.1	31.0	28.5	30.8	33.2
14 ( 73)	0.0	1.0	2.8	20.2	26.5	33.9	39.6	75.5	100.0	2.0	21.5	30.3	30.8	31.6	29.9	31.9	34.0
15 ( 74)	0.0	1.0	2.6	21.0	27.0	33.0	48.3	74.9	100.0	0.0	22.1	30.3	30.9	31.6	29.5	31.4	33.0
16 ( 75)	0.2	1.1	2.8	20.4	26.8	32.2	52.9	72.7	99.3	0.0	23.1	30.1	30.7	31.4	29.1	31.2	33.4
17 ( 76)	0.1	1.1	2.8	18.0	25.5	33.1	48.3	70.2	98.8	0.0	21.2	30.0	30.9	31.5	29.0	31.5	33.6
18 ( 77)	0.1	0.9	2.5	17.4	26.8	35.4	29.4	61.7	98.3	0.0	23.3	30.2	31.0	31.7	29.2	31.5	33.9
19 ( 78)	0.1	1.0	2.5	16.6	26.6	35.7	24.9	59.1	98.3	0.0	22.7	30.5	31.2	31.9	29.5	31.8	34.0
20 ( 79)	0.1	0.9	2.6	15.6	25.7	34.8	33.0	60.8	92.7	0.0	22.2	30.5	31.2	31.9	29.4	31.7	33.7
21 ( 80)	0.0	0.9	2.5	16.1	25.8	34.5	36.4	61.1	91.4	0.0	22.2	30.5	31.2	31.8	29.4	31.7	33.8
22 ( 81)	0.0	0.9	2.8	15.5	25.9	34.6	36.7	64.1	91.9	0.0	22.2	30.6	31.3	31.9	29.5	31.7	33.9
23 ( 82)	0.0	0.9	2.5	17.9	26.8	34.5	32.2	63.8	97.7	0.0	21.3	30.9	31.5	32.1	30.0	32.1	34.1
24 ( 83)	0.1	1.1	2.4	18.3	27.0	34.3	40.5	64.2	91.2	0.0	21.3	31.0	31.7	32.3	30.2	32.3	34.3
25 ( 84)	0.0	0.8	2.4	19.0	27.2	34.5	39.6	66.0	93.9	0.0	19.5	31.3	31.8	32.3	30.5	32.4	34.1
26 ( 85)	0.0	0.9	2.3	20.7	28.3	35.3	35.8	65.9	96.8	0.0	21.4	31.5	32.0	32.8	30.9	32.8	34.9
27 ( 86)	0.0	1.0	2.5	19.4	27.8	35.4	35.4	67.3	93.8	0.0	22.5	31.8	32.4	33.0	31.1	33.2	35.2
28 ( 87)	0.0	0.9	2.5	20.4	28.0	35.3	35.1	65.9	97.8	0.0	23.0	32.0	32.7	33.4	31.5	33.5	35.6
29 ( 88)	0.1	1.1	2.7	20.3	27.7	35.6	24.0	56.5	93.2	0.0	21.6	32.3	32.9	33.4	31.7	33.6	35.4
30 ( 89)	0.0	0.9	2.5	18.4	26.4	34.0	31.5	57.9	82.2	0.0	21.6	32.0	32.7	33.4	31.0	33.1	35.0
31 ( 90)	0.1	1.0	2.7	17.7	26.4	35.0	29.3	55.9	90.7	0.0	23.4	31.9	32.6	33.2	30.8	33.0	35.3
-----	0.0	1.0	3.3	12.7	25.7	35.7	17.9	60.9	100.0	2.0	707	28.2	30.7	33.4	27.2	31.3	35.6

-99.00 indicate No data or Invalid data.

KERALA FOREST RESEARCH INSTITUTE. DAILY FOREST METEOROLOGICAL DATA  
 Station 3, Chinnar WLS 1st December 1998 to 31st December 1998

Day	Wind speed			Temperature			Humidity			Rain mm	Solar MJ/m2	Soil(15cm) temp oC			Soil(30cm) temp oC		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max			Min	Avg	Max	Min	Avg	Max
1 (335)	0.2	0.6	1.5	21.5	24.4	28.5	68.4	89.9	100.0	0.0	14.8	27.4	27.6	27.9	26.5	27.4	28.2
2 (336)	0.2	0.6	1.8	20.4	24.2	28.7	66.4	87.5	100.0	0.0	15.7	27.0	27.3	27.6	26.0	26.9	28.0
3 (337)	0.0	0.5	1.6	18.0	23.1	28.0	53.8	82.4	100.0	0.0	18.8	26.5	26.9	27.5	25.0	26.3	27.5
4 (338)	0.0	0.5	1.3	21.7	24.0	27.8	66.6	86.8	100.0	0.0	12.9	26.6	26.9	27.1	25.7	26.5	27.3
5 (339)	0.2	0.6	1.8	21.5	23.2	26.4	78.1	95.8	100.0	0.8	7.2	26.6	26.7	27.0	25.7	26.1	26.5
6 (340)	0.1	0.5	1.1	19.5	22.7	26.6	58.1	84.1	100.0	0.0	10.4	26.2	26.4	26.7	25.1	25.5	26.0
7 (341)	0.2	0.7	1.4	19.0	22.9	27.7	65.8	84.2	100.0	0.0	14.4	25.6	25.9	26.3	24.1	25.1	26.2
8 (342)	0.4	1.0	1.7	20.7	22.7	26.6	68.5	92.9	100.0	16.4	8.7	24.7	25.6	26.1	23.7	24.9	25.6
9 (343)	0.4	1.1	2.0	21.2	22.0	23.5	94.3	99.2	100.0	24.9	2.7	24.8	25.1	25.8	23.9	24.3	25.0
18 (344)	0.2	0.5	1.1	21.3	22.5	25.0	94.2	99.6	100.0	19.5	3.6	24.8	24.9	25.0	23.9	24.2	24.8
11 (345)	0.0	0.3	1.5	20.6	21.8	22.5	100.0	100.0	100.0	26.3	1.5	24.0	24.4	24.8	23.4	23.7	24.1
12 (346)	0.0	0.5	0.9	20.3	22.1	25.0	86.1	97.4	100.0	2.2	6.1	24.3	24.4	24.8	23.4	23.9	24.6
13 (347)	0.0	0.8	2.0	20.6	22.2	25.0	88.4	97.9	100.0	12.8	6.9	24.6	24.7	24.9	23.8	24.3	24.9
14 (348)	0.1	0.6	2.3	19.8	21.6	24.5	82.1	95.6	100.0	0.8	5.6	24.4	24.5	24.7	23.5	23.9	24.4
15 (349)	0.0	0.4	1.3	20.8	23.0	26.9	74.5	93.7	100.0	0.2	11.0	24.5	24.7	25.0	23.7	24.3	25.2
16 (350)	0.2	0.6	1.6	21.3	23.5	26.8	76.5	92.4	100.0	0.0	12.0	24.9	25.1	25.4	24.3	24.9	25.6
17 (351)	0.1	0.8	2.1	19.5	23.3	27.8	61.1	86.2	100.0	0.0	20.0	25.1	25.4	25.8	24.5	25.4	26.5
18 (352)	0.0	0.6	1.7	18.0	22.5	27.5	66.7	88.9	100.0	0.0	14.0	25.0	25.3	25.8	24.0	24.8	25.6
19 (353)	0.1	0.6	1.9	18.9	23.3	27.7	68.6	88.3	100.0	0.0	16.7	25.1	25.4	25.7	24.1	25.2	26.1
20 (354)	0.0	0.4	0.8	18.4	21.2	26.4	70.1	94.5	100.0	0.0	6.0	25.1	25.3	25.7	24.1	24.5	25.2
21 (355)	0.0	0.5	1.5	16.3	20.5	25.8	69.9	90.2	100.0	0.0	13.8	24.3	24.7	25.1	22.9	23.8	24.9
22 (356)	0.1	0.6	1.4	16.1	20.9	25.4	68.5	88.1	100.0	0.0	14.9	24.1	24.5	24.8	22.7	23.8	24.8
23 (357)	0.1	0.7	1.9	14.5	20.6	26.9	59.6	84.2	100.0	0.2	19.6	24.0	24.4	24.8	22.4	23.8	25.1
24 (358)	0.3	0.8	1.7	13.8	20.3	27.1	60.1	84.4	100.0	0.0	20.4	23.9	24.3	24.7	22.2	23.7	25.0
25 (359)	0.2	0.9	1.8	13.1	19.2	26.6	39.8	80.2	100.0	0.0	20.8	23.8	24.2	24.6	22.1	23.5	24.9
26 (360)	0.1	0.8	1.7	13.5	20.0	27.1	55.8	81.7	100.0	0.0	19.9	23.6	24.0	24.5	21.9	23.4	24.9
27 (361)	0.1	0.4	0.9	17.9	21.4	24.2	81.7	93.6	100.0	0.4	3.5	24.0	24.1	24.4	23.2	23.5	23.8
28 (362)	0.0	0.5	1.3	20.6	22.7	25.0	79.3	91.0	100.0	0.6	6.5	24.0	24.2	24.4	23.3	23.8	24.3
29 (363)	0.1	0.5	1.3	18.8	22.8	26.8	69.6	90.0	100.0	0.0	11.1	24.2	24.4	24.7	23.6	24.2	24.9
30 (364)	0.1	0.6	1.5	16.3	21.6	27.8	61.4	86.9	100.0	0.2	18.3	24.0	24.4	24.8	22.8	24.0	25.2
31 (365)	0.1	0.8	2.2	16.8	21.9	26.2	70.4	87.1	100.0	0.0	16.2	24.2	24.5	25.0	23.1	24.3	25.5

0.0 0.6 2.3 13.1 22.2 28.7 39.8 90.2 100.0 105.2 374 23.6 25.2 27.9 21.9 24.6 28.2

-99.00 indicate No data or Invalid data.

KERALA FOREST RESEARCH INSTITUTE  
 Monthly Meteorological Data: Chinnar WLS  
 Year= 1997

Day	Wind_speed			Temperature			Humidity			Rain	Solar	Sol(15cm)			Soil(30cm)		
	m/s			oC			%			mm	MJ/m2	oC			oC		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Total	Total	Min	Avg	Max	Min	Avg	Max
Jan	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
Feb	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
Mar	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
Apr	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
May	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
Jun	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
Jul	0.8	2.2	4.7	24.4	28.0	32.0	37.6	59.2	83.8	0.4	41	27.7	30.1	34.8	28.8	29.7	31.5
Aug	0.1	1.6	5.8	18.7	27.8	34.6	26.1	57.8	95.7	10.4	560	26.4	32.1	37.6	28.3	31.9	34.4
Sep	0.0	1.0	4.4	17.2	26.3	34.7	29.2	71.7	98.3	29.1	594	26.5	31.5	37.8	28.5	31.6	34.5
Oct	0.0	0.8	3.1	18.4	24.8	34.0	31.7	83.1	99.8	237.4	536	25.2	28.9	37.3	26.1	29.4	33.9
Nov	0.0	0.6	2.5	18.4	23.9	29.8	63.4	89.9	100.0	163.1	399	24.2	26.0	28.0	25.1	26.4	27.6
Dec	0.0	0.6	2.1	17.8	23.4	29.1	66.4	91.6	100.0	80.0	151	22.6	24.9	26.0	22.8	25.2	26.4
	0.0	1.1	5.8	17.2	25.7	34.7	26.1	75.6	100.0	520.4	2281	22.6	28.9	37.8	22.8	29.0	34.5

-99.00 indicate No data or Invalid data.

KERALA FOREST RESEARCH INSTITUTE  
 Monthly Meteorological Data: Chinnar WLS  
 Year= 1998

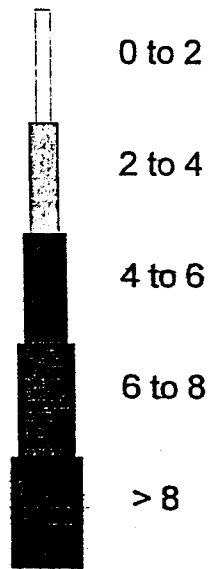
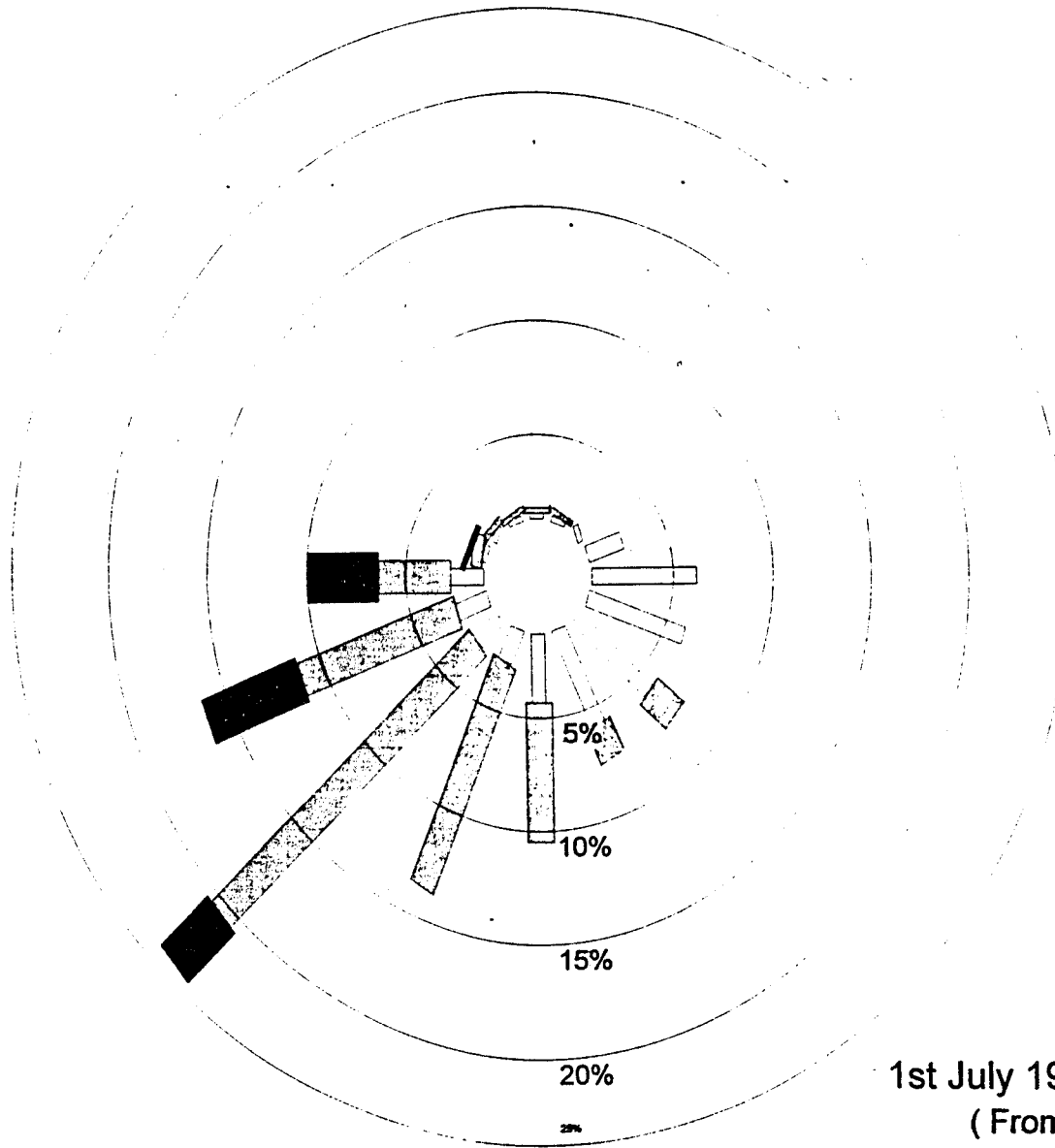
Day	Wind_speed			Temperature			Humidity			Rain	Solar	Sol(15cm)			Soil(30cm)		
	m/s			oC			%			mm	MJ/m2	oC			oC		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Total	Total	Min	Avg	Max	Min	Avg	Max
Jan	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
Feb	0.0	0.9	3.0	16.1	25.4	34.5	28.7	71.0	97.8	2.8	328	26.2	28.9	30.8	26.1	29.5	33.0
Mar	0.0	1.1	3.3	14.2	26.6	37.2	19.2	57.6	93.9	0.0	760	29.7	31.7	34.0	28.5	32.3	36.3
Apr	0.0	1.1	5.2	17.0	28.6	37.8	23.6	60.5	97.1	22.1	722	31.8	34.3	36.8	30.3	34.8	39.8
May	0.0	1.0	4.0	20.1	28.7	37.8	29.9	68.4	98.1	15.6	660	29.5	33.6	36.6	27.5	33.9	39.7
Jun	0.0	1.7	5.8	20.8	28.5	37.5	29.6	59.6	99.0	12.6	509	29.4	34.4	36.6	27.4	34.5	39.1
Jul	0.0	1.3	5.6	20.1	26.8	34.1	34.8	70.8	100.0	60.4	536	27.9	30.5	33.8	25.8	30.3	36.8
Aug	0.0	0.8	4.7	17.6	25.8	33.8	26.0	81.3	100.0	28.3	554	28.4	29.8	32.1	27.0	29.6	34.1
Sep	0.0	1.1	5.0	18.0	26.6	34.4	31.5	71.7	100.0	27.1	531	28.5	31.9	33.7	27.9	31.9	36.0
Oct	0.0	0.8	4.1	15.4	25.4	33.7	33.6	78.9	100.0	8.4	526	27.0	29.3	31.0	25.6	29.1	33.1
Nov	0.0	0.6	2.5	15.0	23.6	30.4	41.7	86.3	100.0	0.4	497	23.6	26.9	29.2	23.2	26.6	29.1
Dec	0.0	0.6	2.3	13.1	22.2	28.7	39.8	90.2	100.0	105.2	374	23.6	25.2	27.9	21.9	24.6	28.2
	0.0	1.0	5.8	13.1	26.2	37.8	19.2	72.4	100.0	282.9	5997	23.6	28.2	36.8	21.9	30.7	39.8

-99.00 indicate No data or Invalid data.



# Chinnar WLS

Wind speed m/s

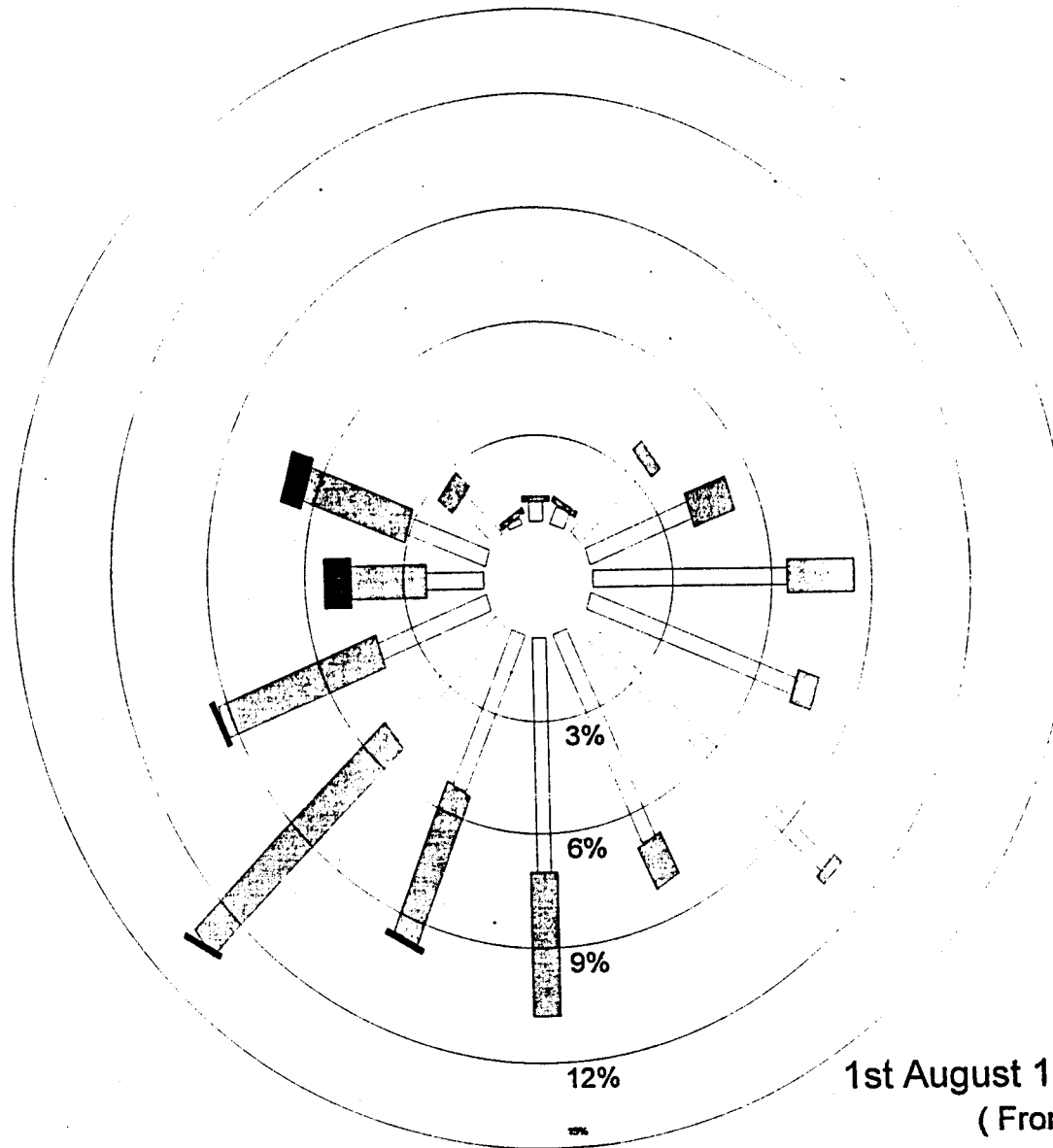


1st July 1997 to 31st July 1997  
( From 1 to 24 Hours )

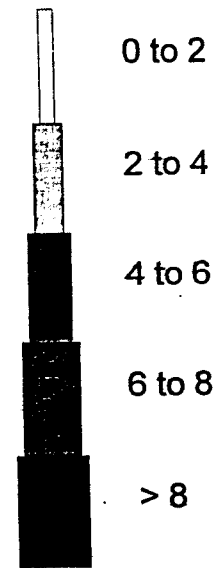


# Chinnar WLS

Wind speed m/s

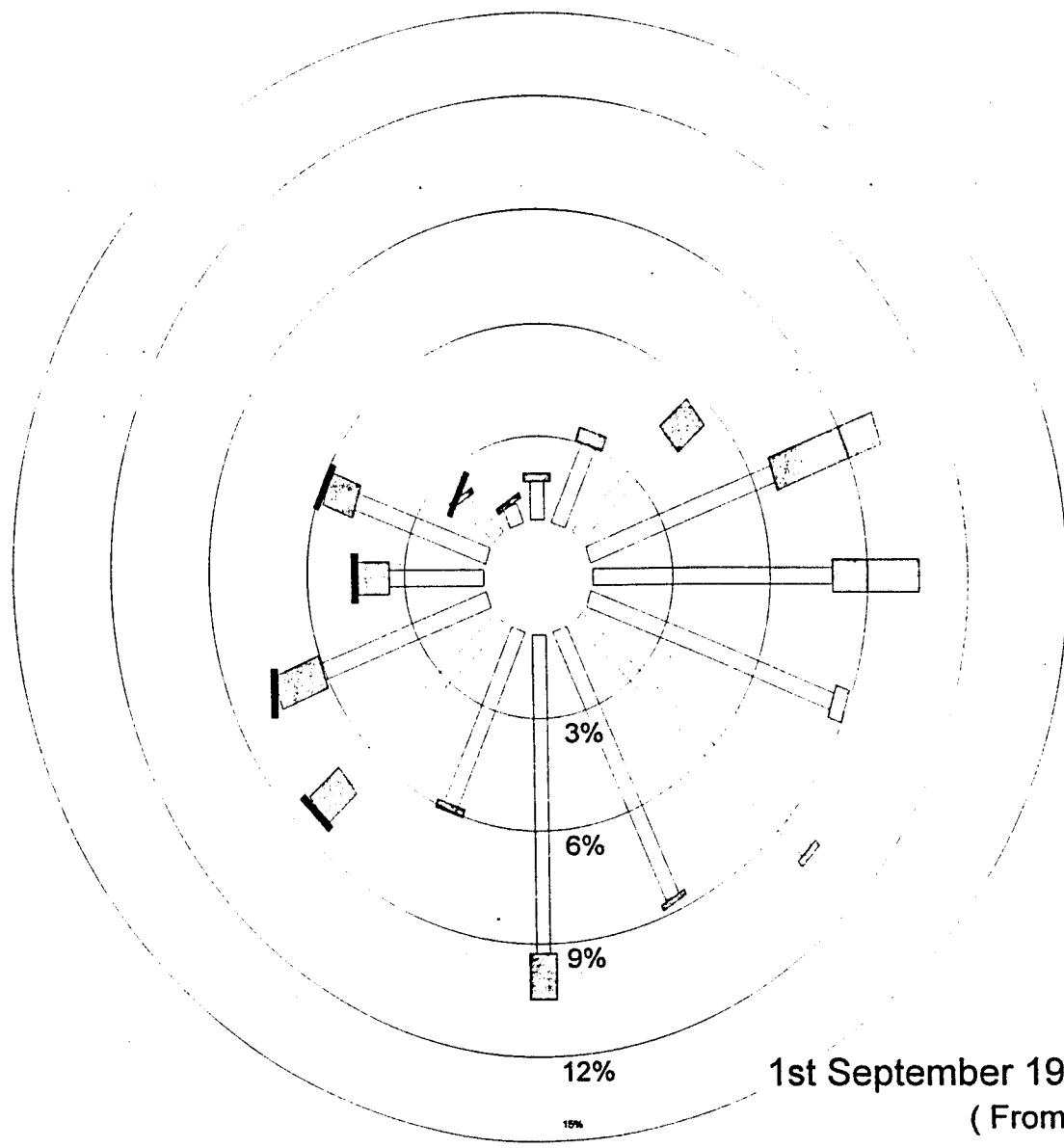


1st August 1997 to 31st August 1997  
(From 1 to 24 Hours)





# Chinnar WLS



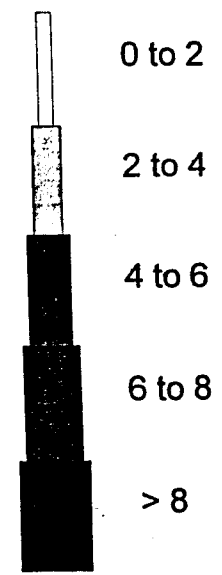
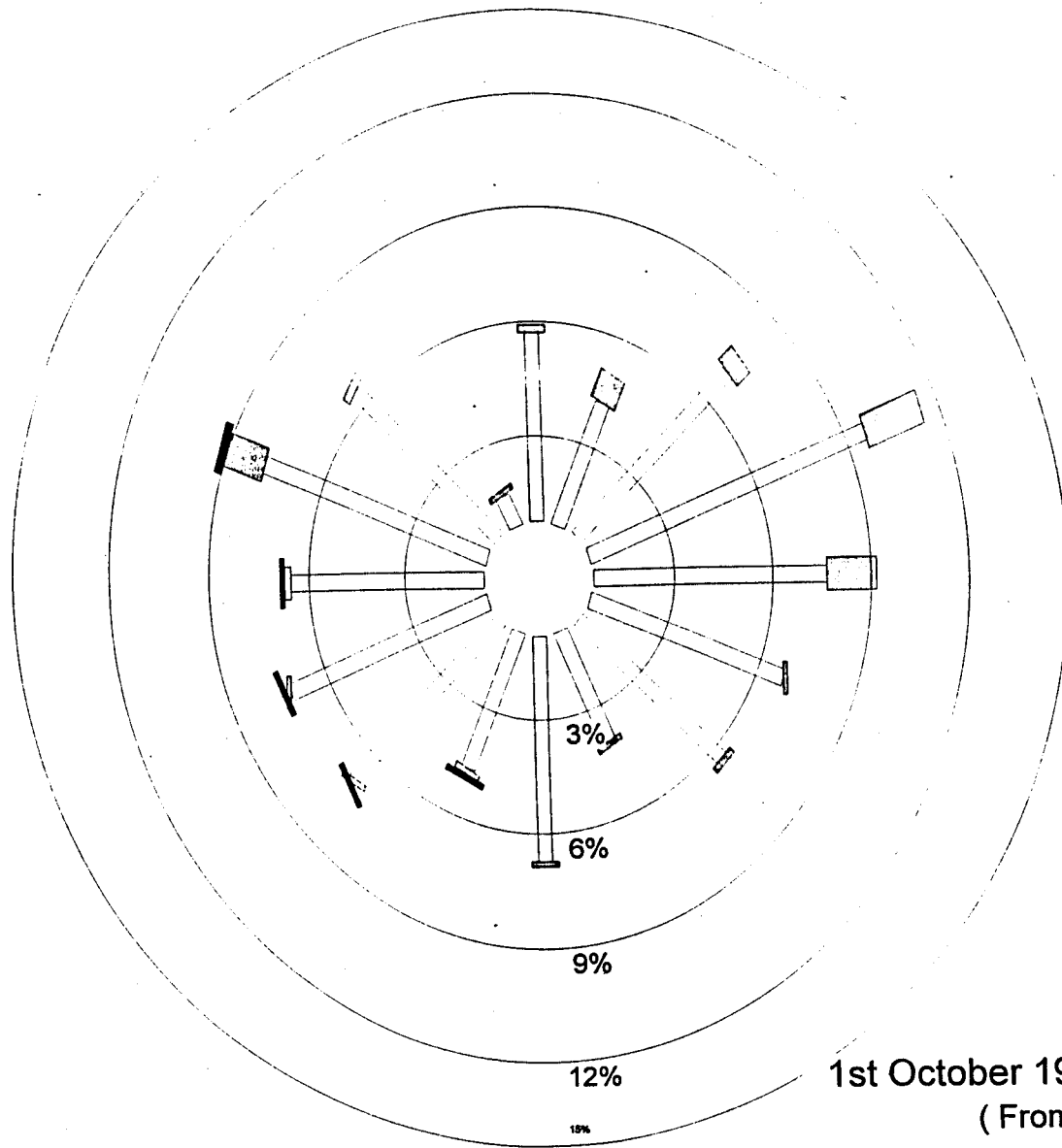
1st September 1997 to 30th September 1997  
( From 1 to 24 Hours )





# Chinnar WLS

Wind speed m/s

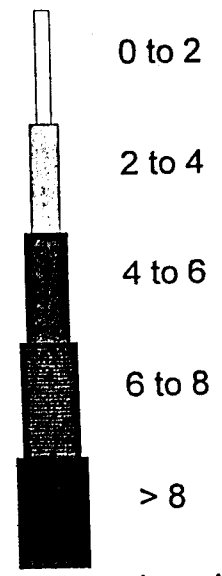
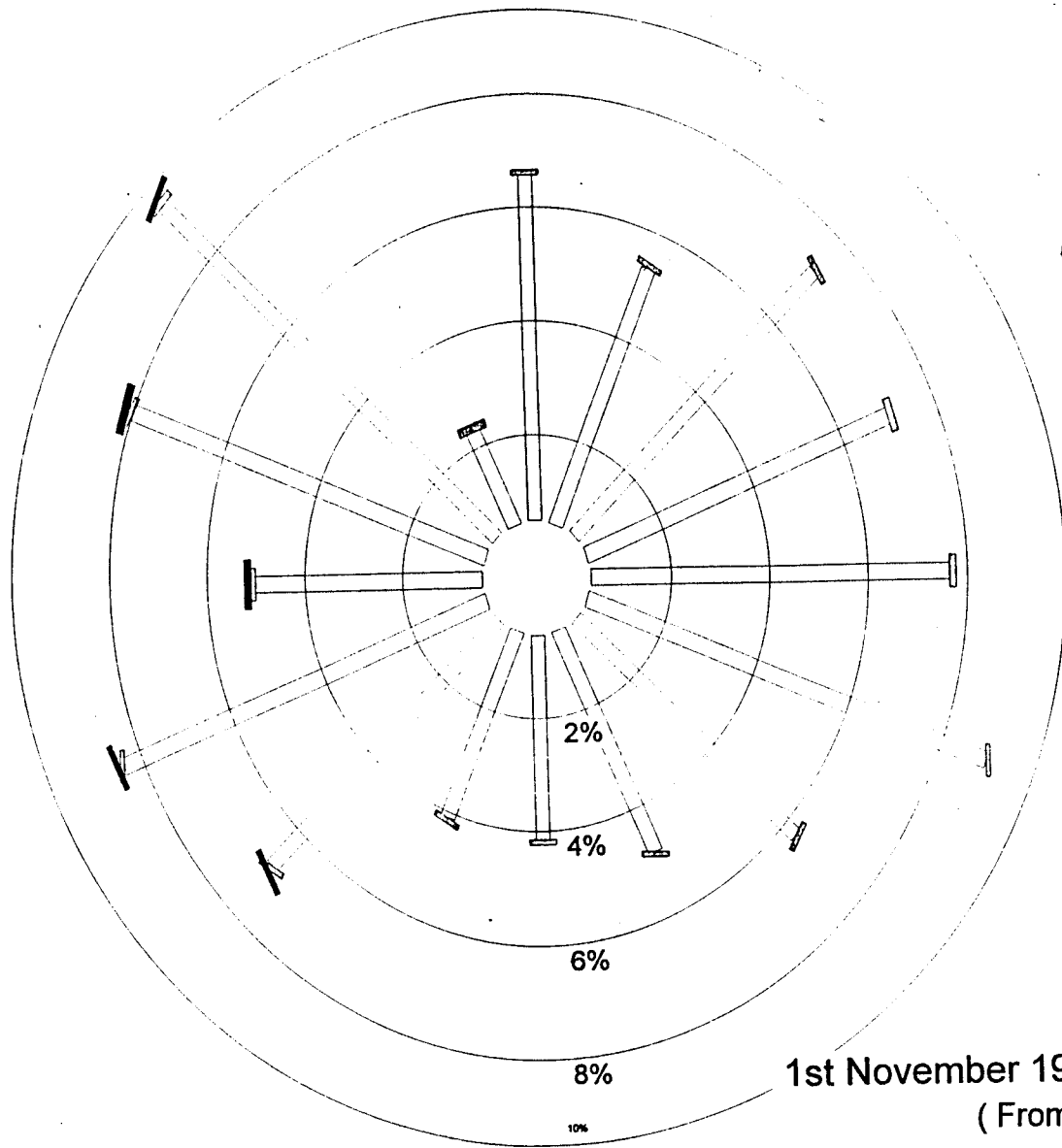


1st October 1997 to 31st October 1997  
( From 1 to 24 Hours )



# Chinnar WLS

Wind speed m/s

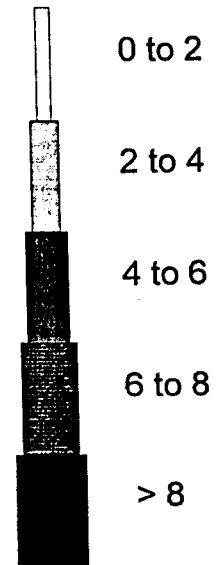
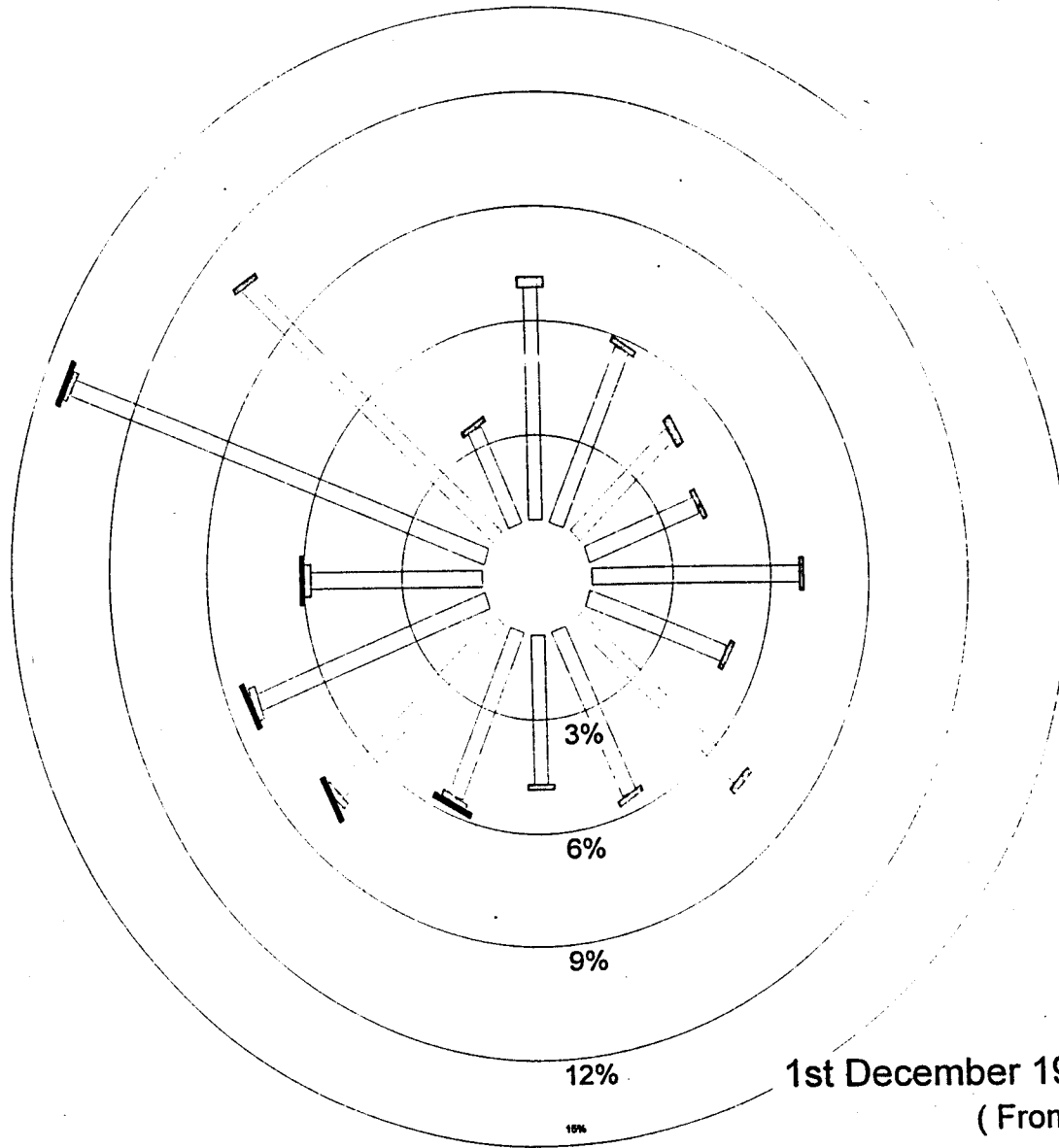


1st November 1997 to 30th November 1997  
( From 1 to 24 Hours )



# Chinnar WLS

Wind speed m/s

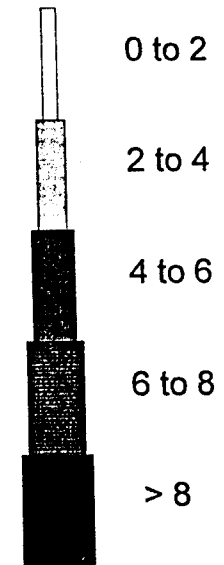
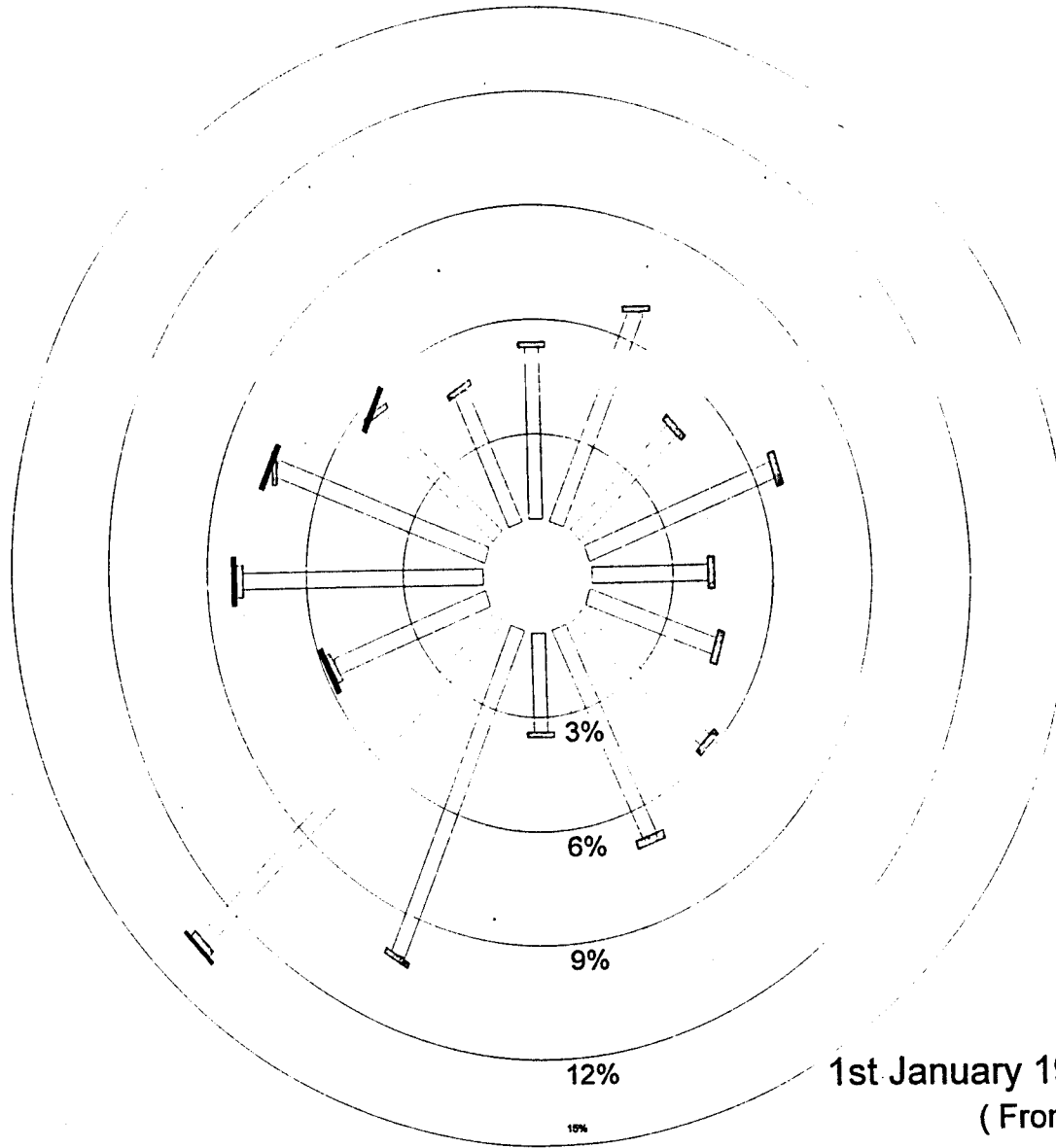


1st December 1997 to 31st December 1997  
( From 1 to 24 Hours )



# Chinnar WLS

Wind speed m/s

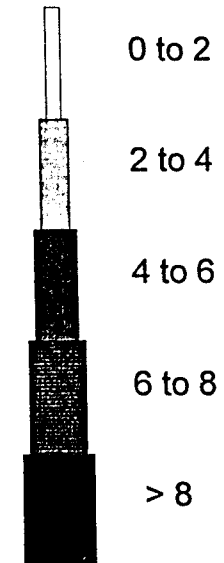
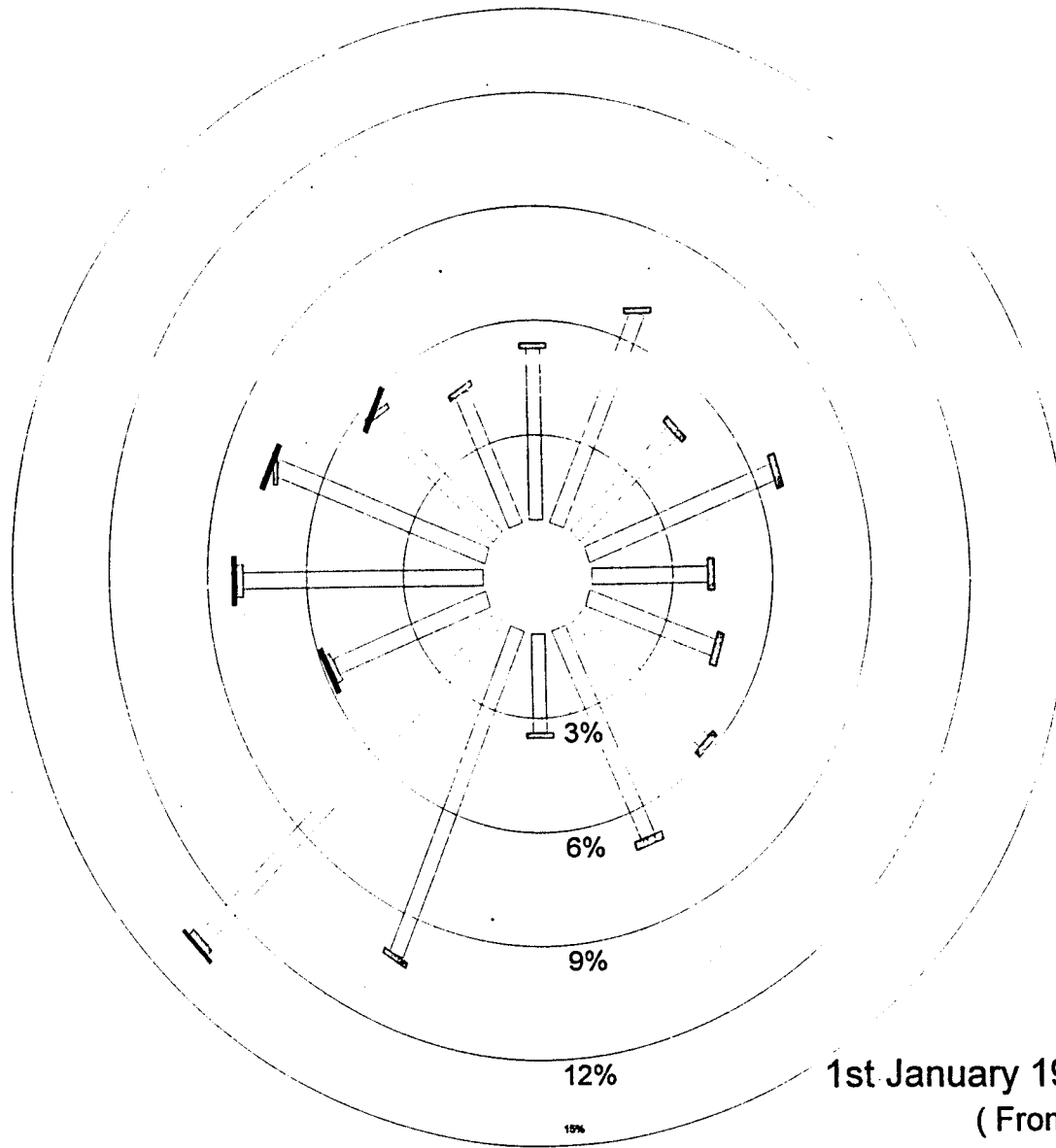


1st January 1998 to 31st January 1998  
( From 1 to 24 Hours )



# Chinnar WLS

Wind speed m/s

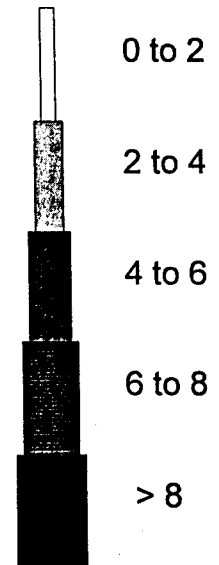
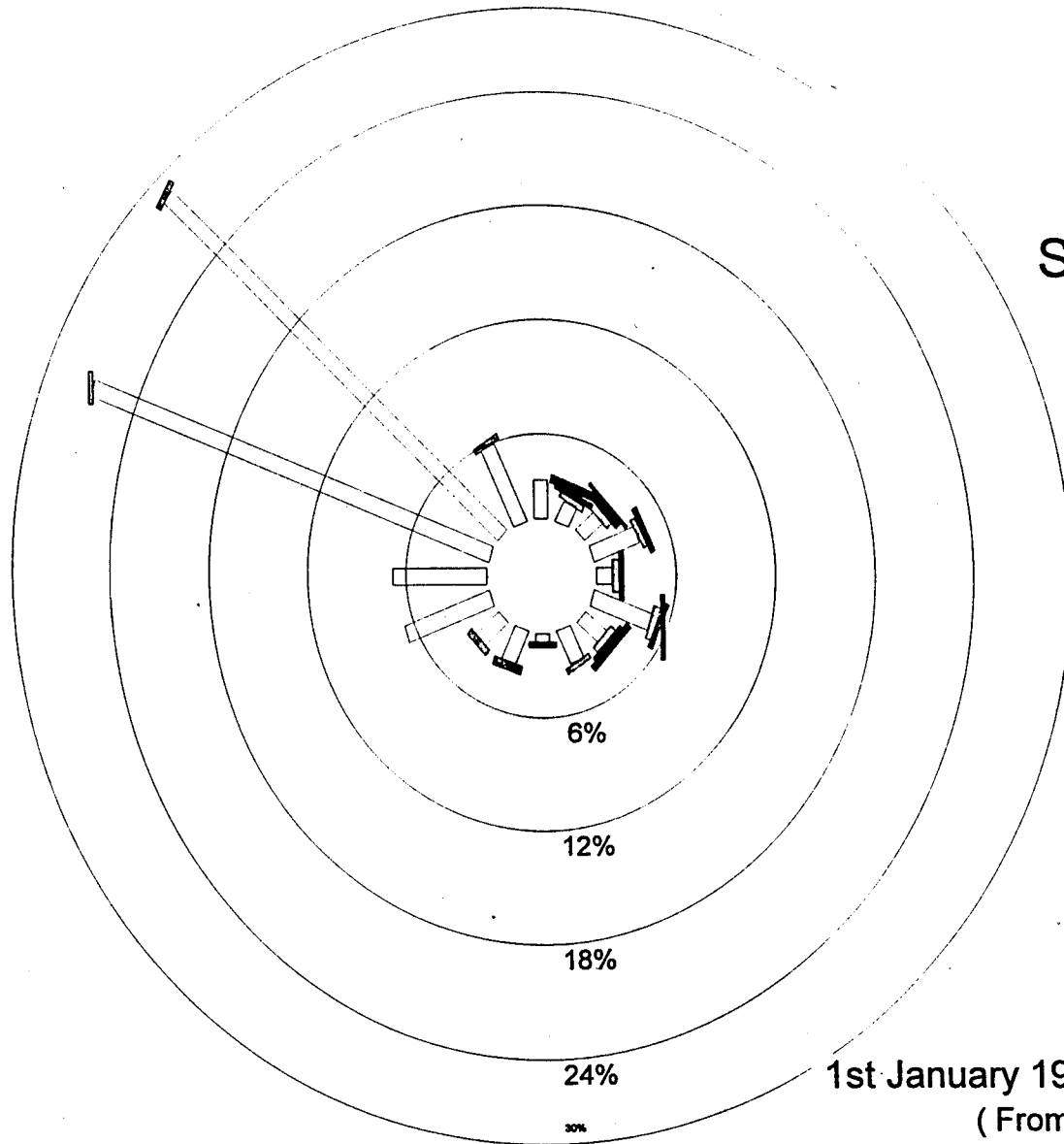


1st January 1998 to 31st January 1998  
( From 1 to 24 Hours )



# Silent Valley NP

Wind speed m/s

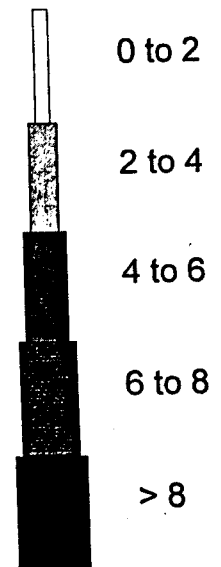
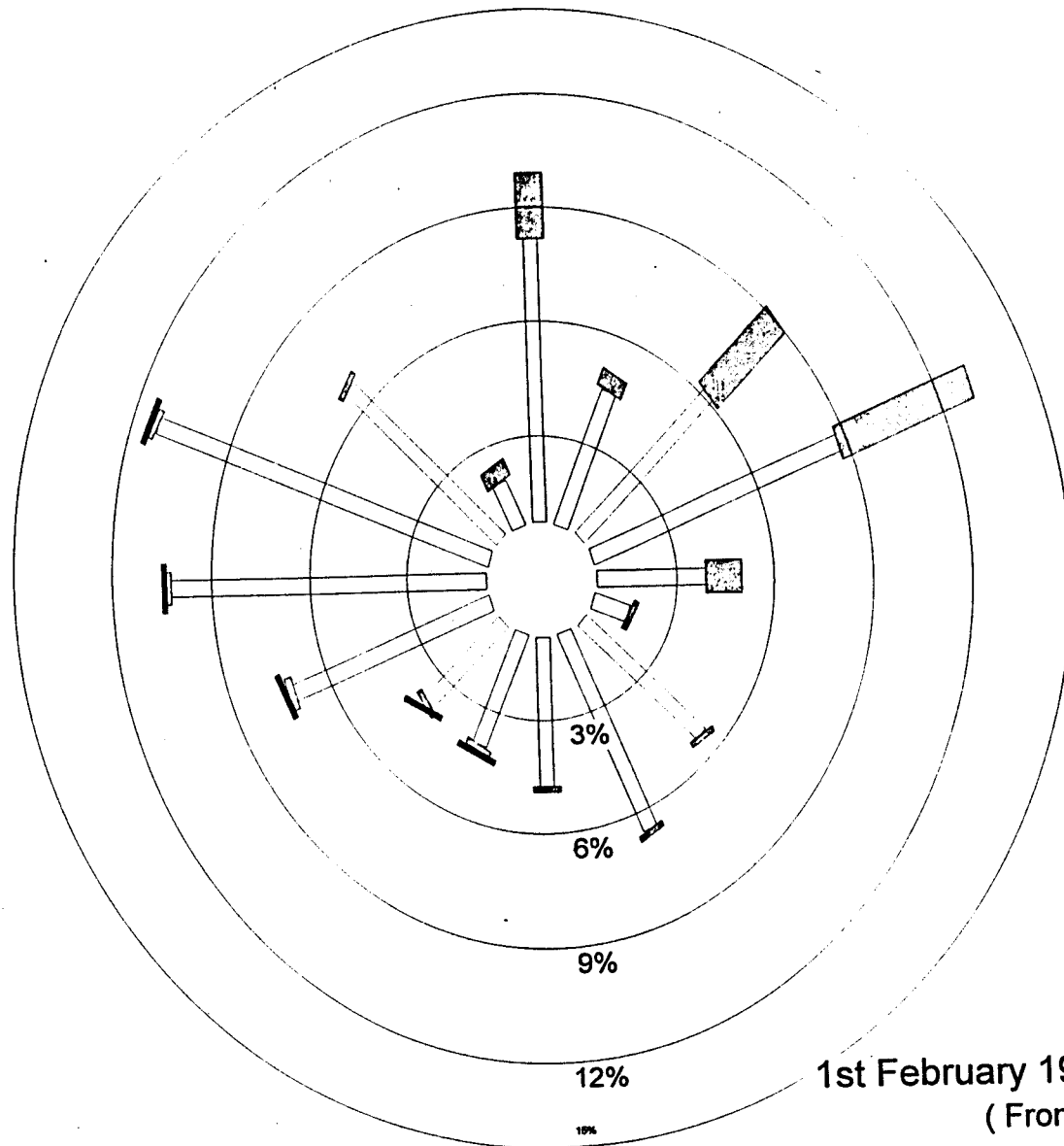


1st January 1997 to 31st January 1997  
( From 1 to 24 Hours )



# Chinnar WLS

Wind speed m/s

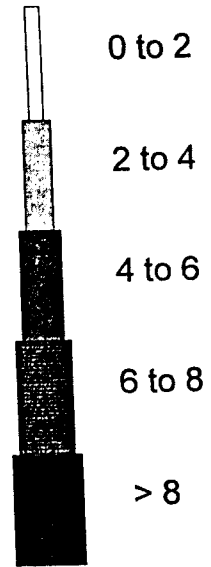
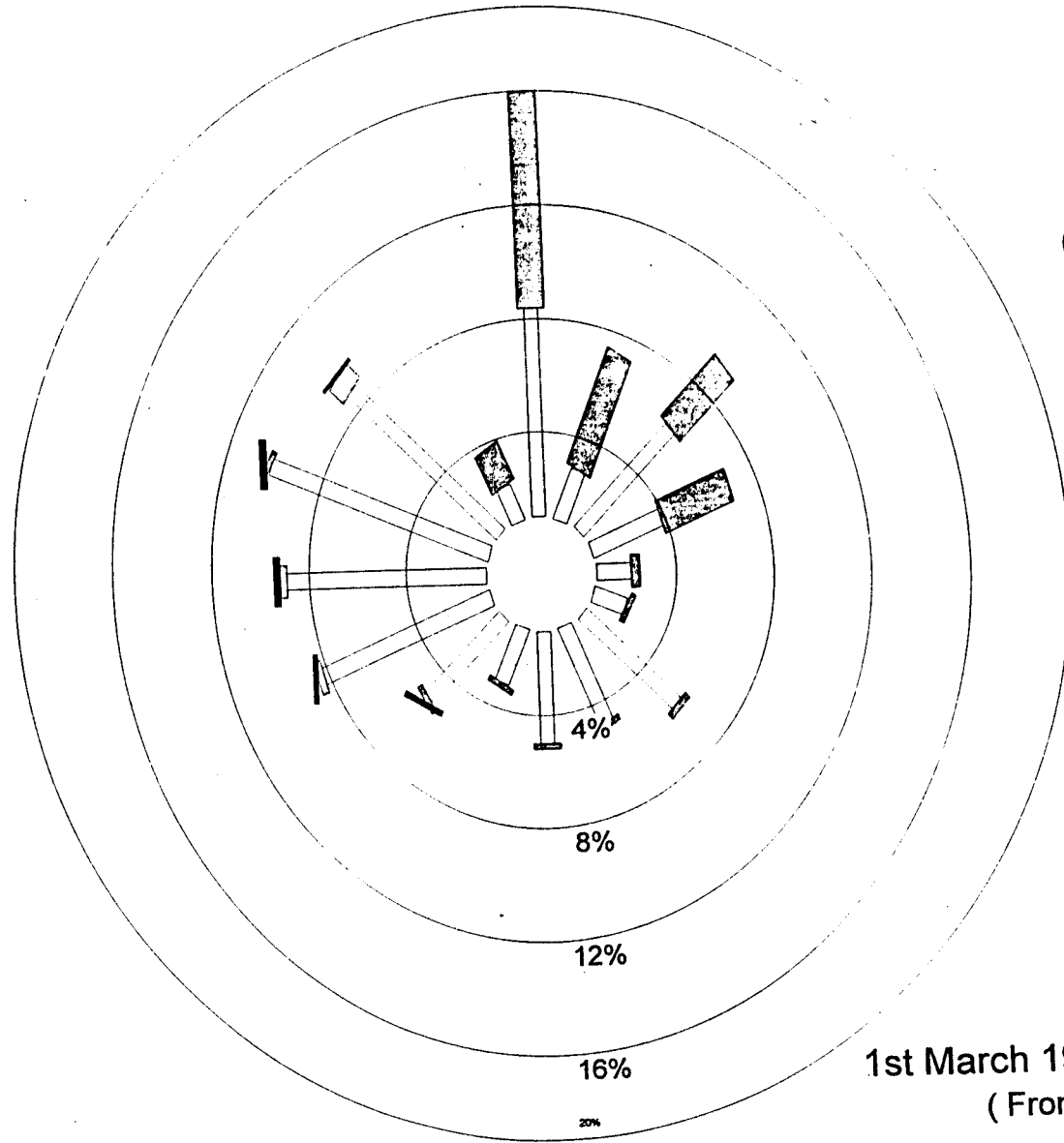


1st February 1998 to 28th February 1998  
( From 1 to 24 Hours )



# Chinnar WLS

Wind speed m/s



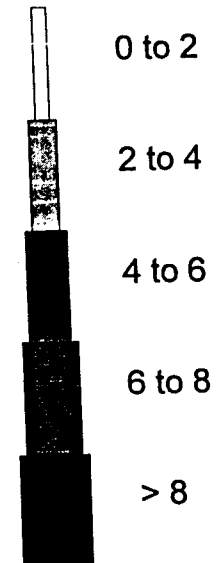
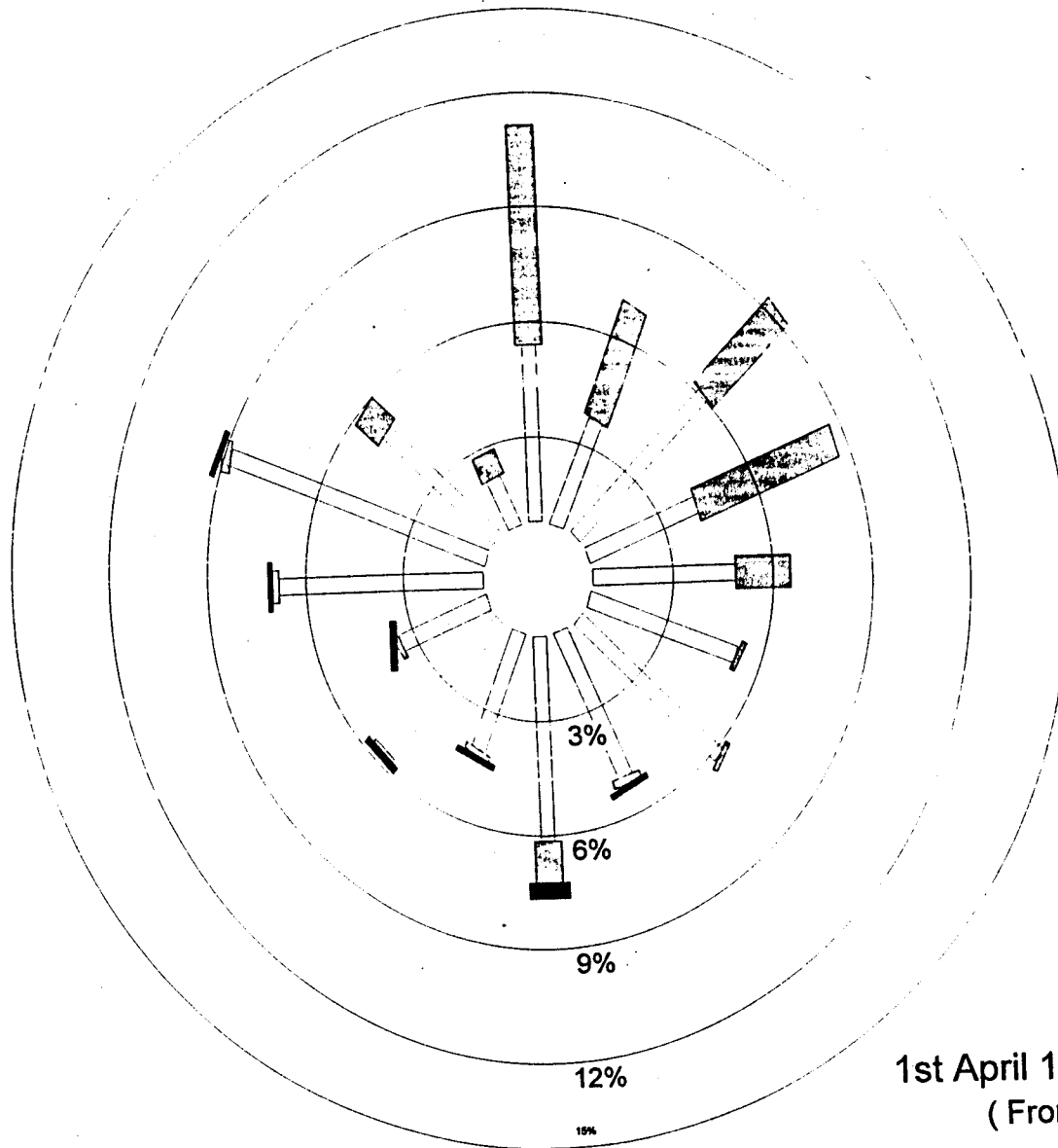
1st March 1998 to 31st March 1998  
( From 1 to 24 Hours )





# Chinnar WLS

Wind speed m/s

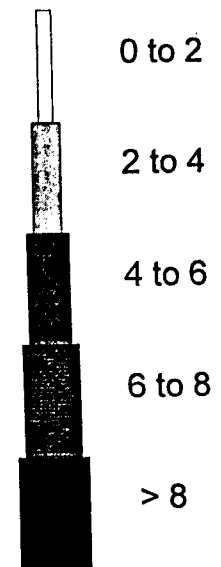
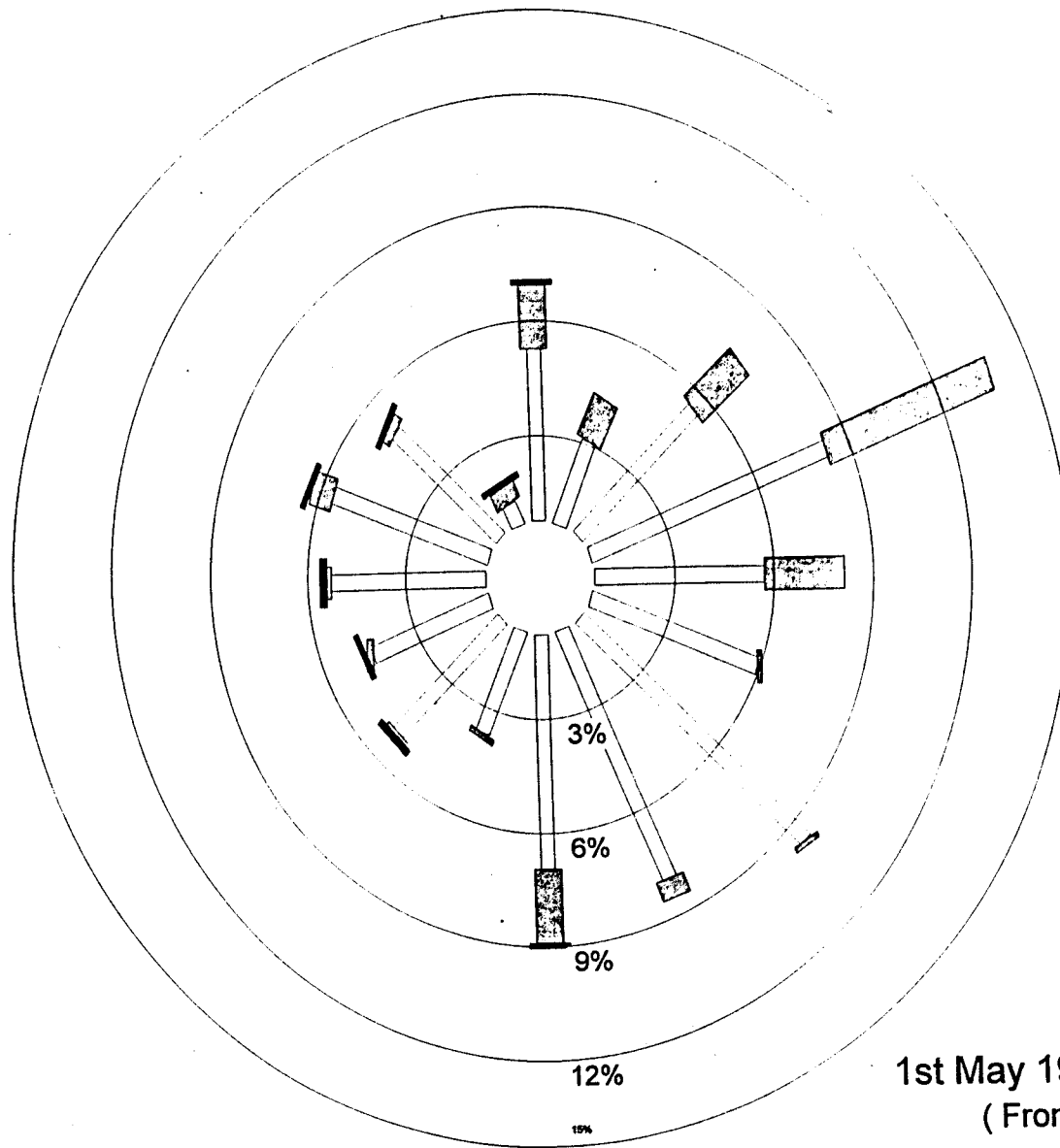


1st April 1998 to 30th April 1998  
( From 1 to 24 Hours )



# Chinnar WLS

Wind speed m/s

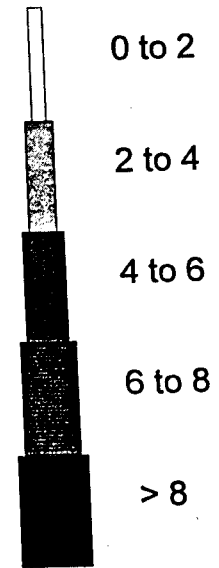
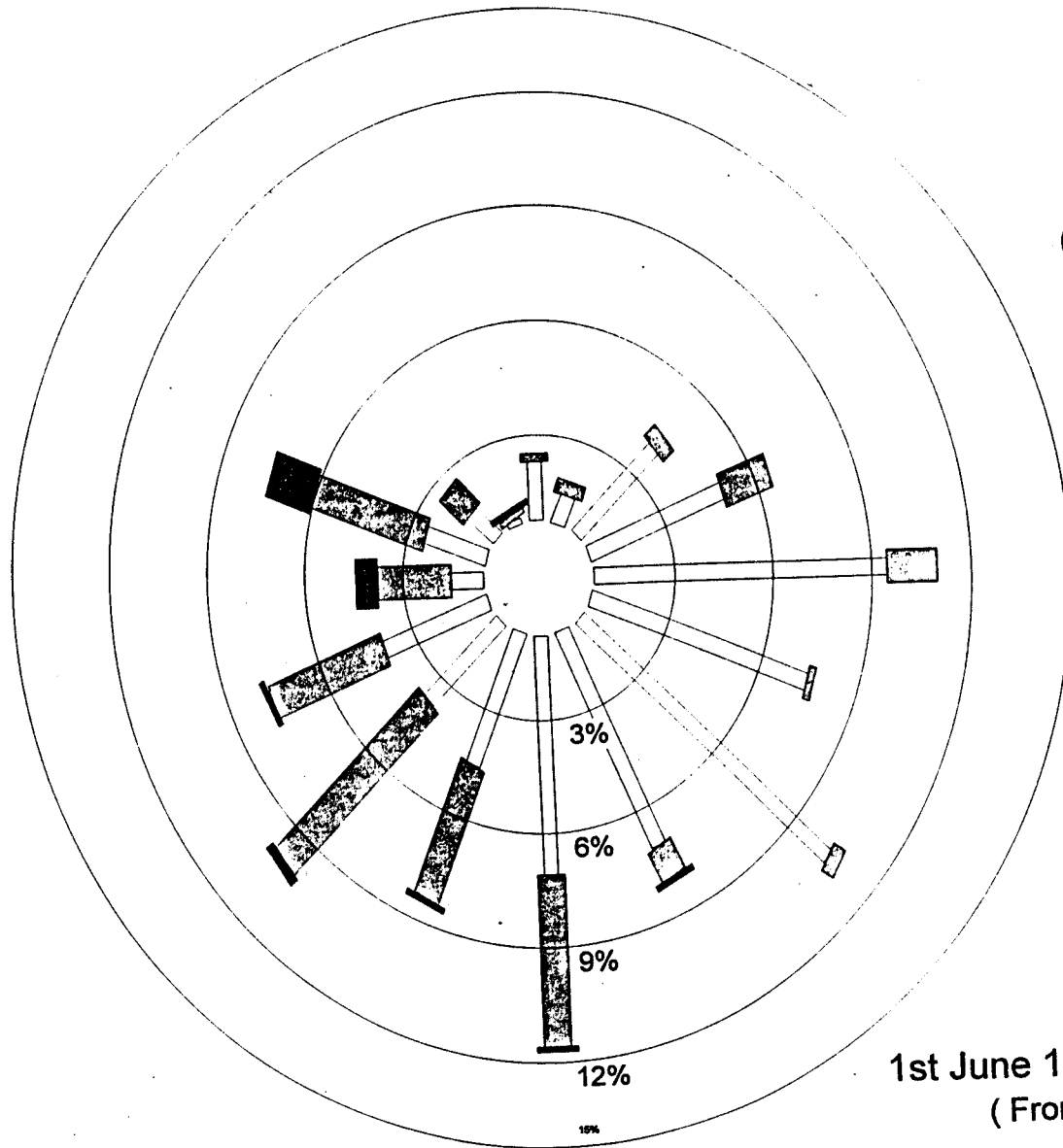


1st May 1998 to 31st May 1998  
( From 1 to 24 Hours )



# Chinnar WLS

Wind speed m/s

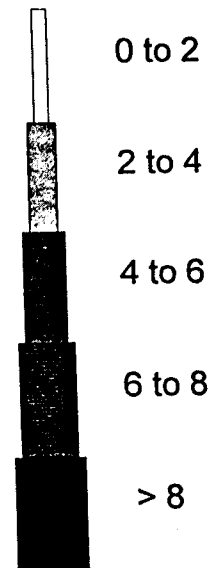
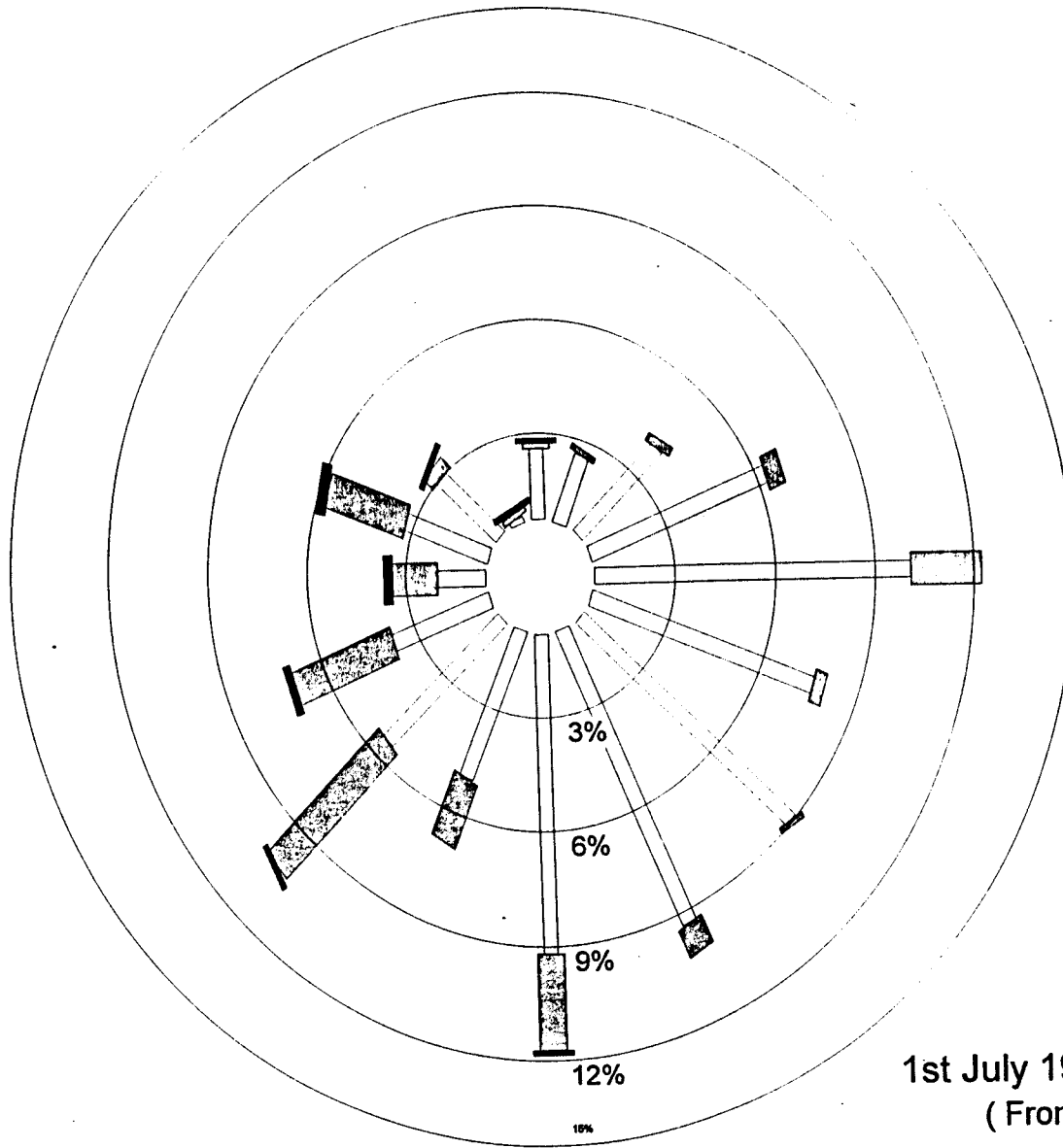


1st June 1998 to 30th June 1998  
( From 1 to 24 Hours )



# Chinnar WLS

Wind speed m/s

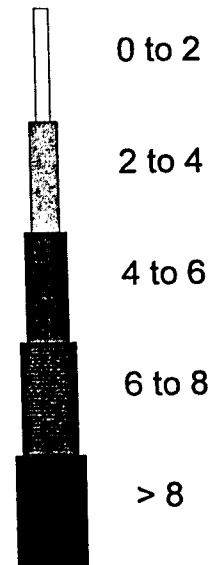
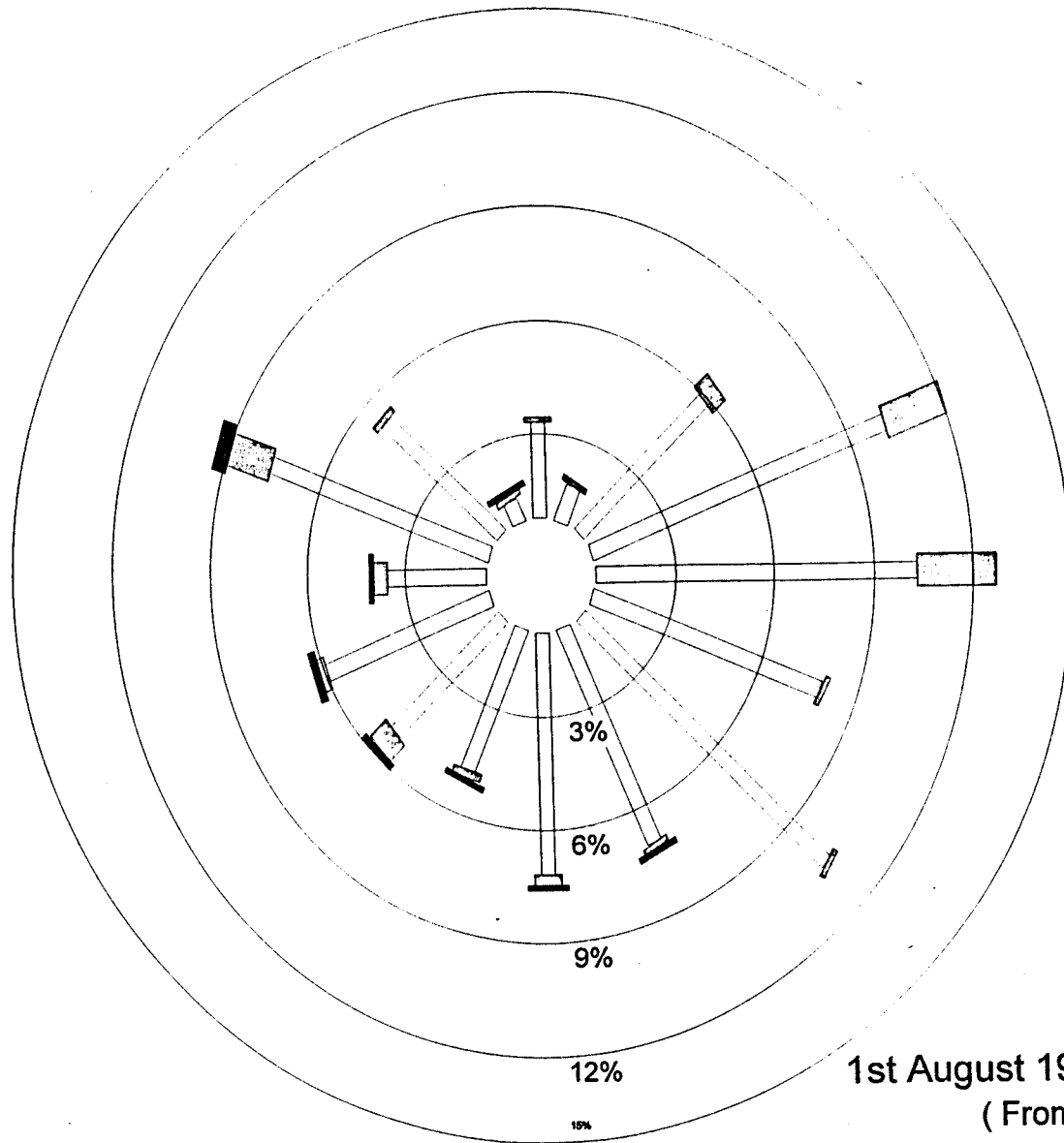


1st July 1998 to 31st July 1998  
( From 1 to 24 Hours )



# Chinnar WLS

Wind speed m/s

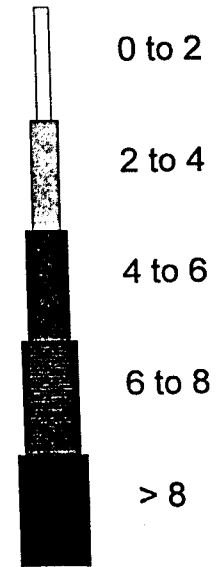
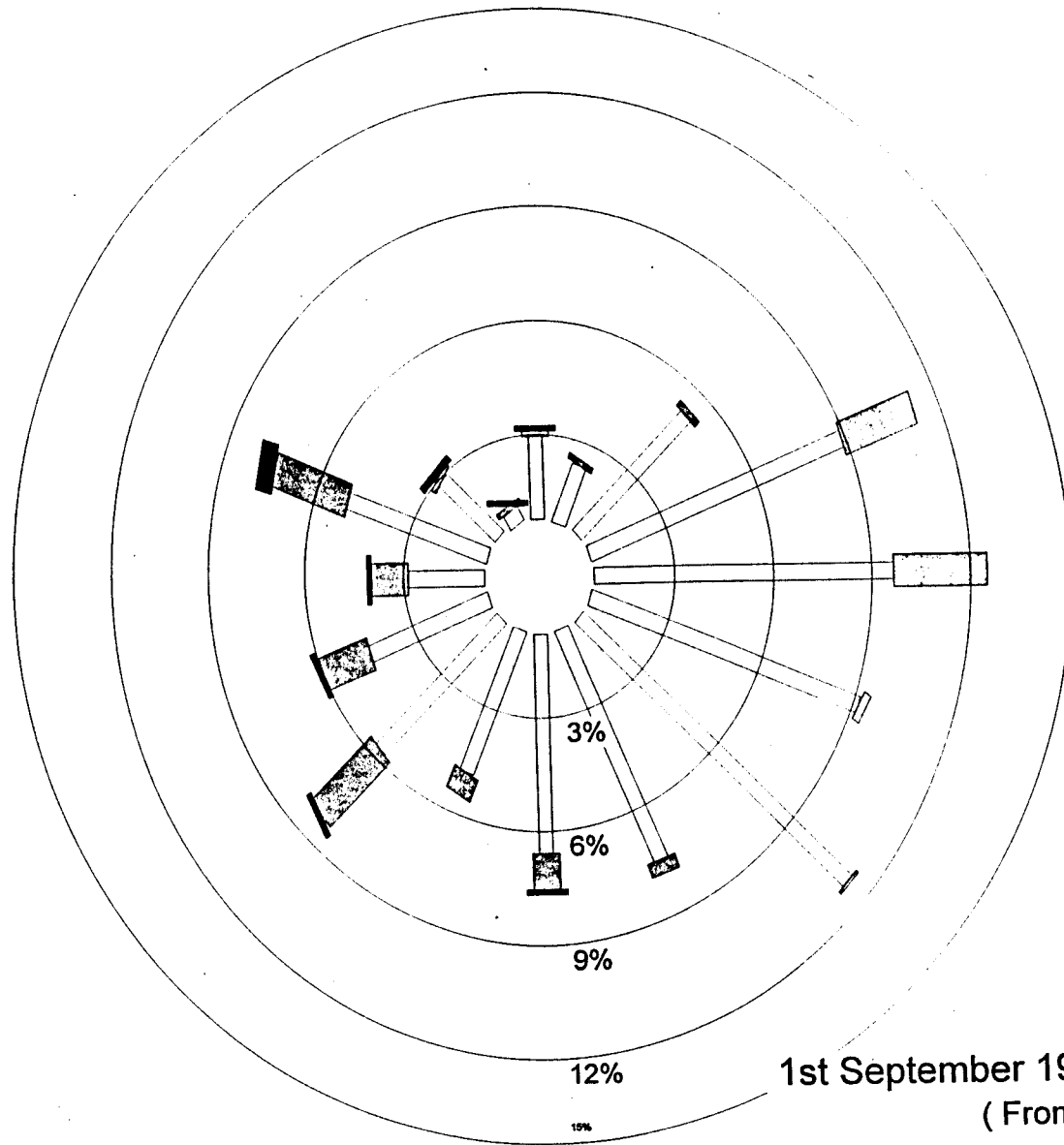


1st August 1998 to 31st August 1998  
(From 1 to 24 Hours)



# Chinnar WLS

Wind speed m/s

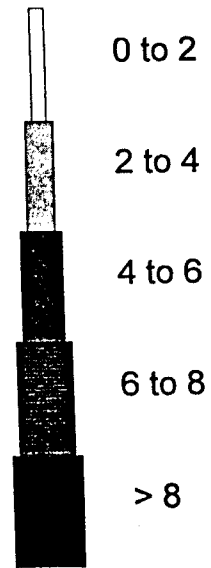
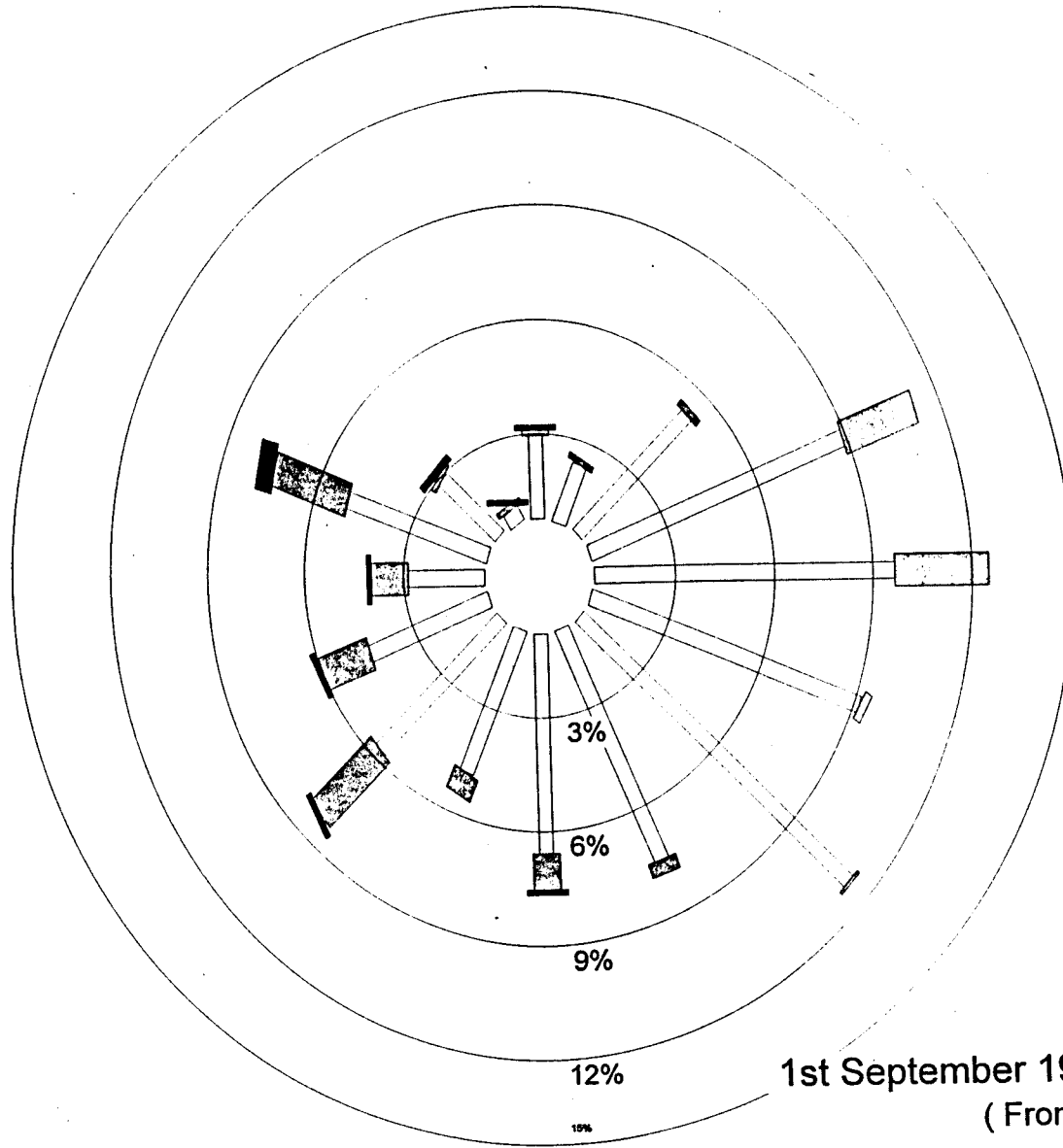


1st September 1998 to 30th September 1998  
( From 1 to 24 Hours )



# Chinnar WLS

Wind speed m/s

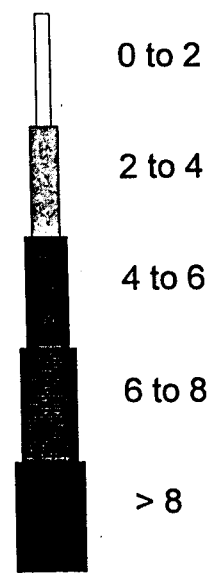
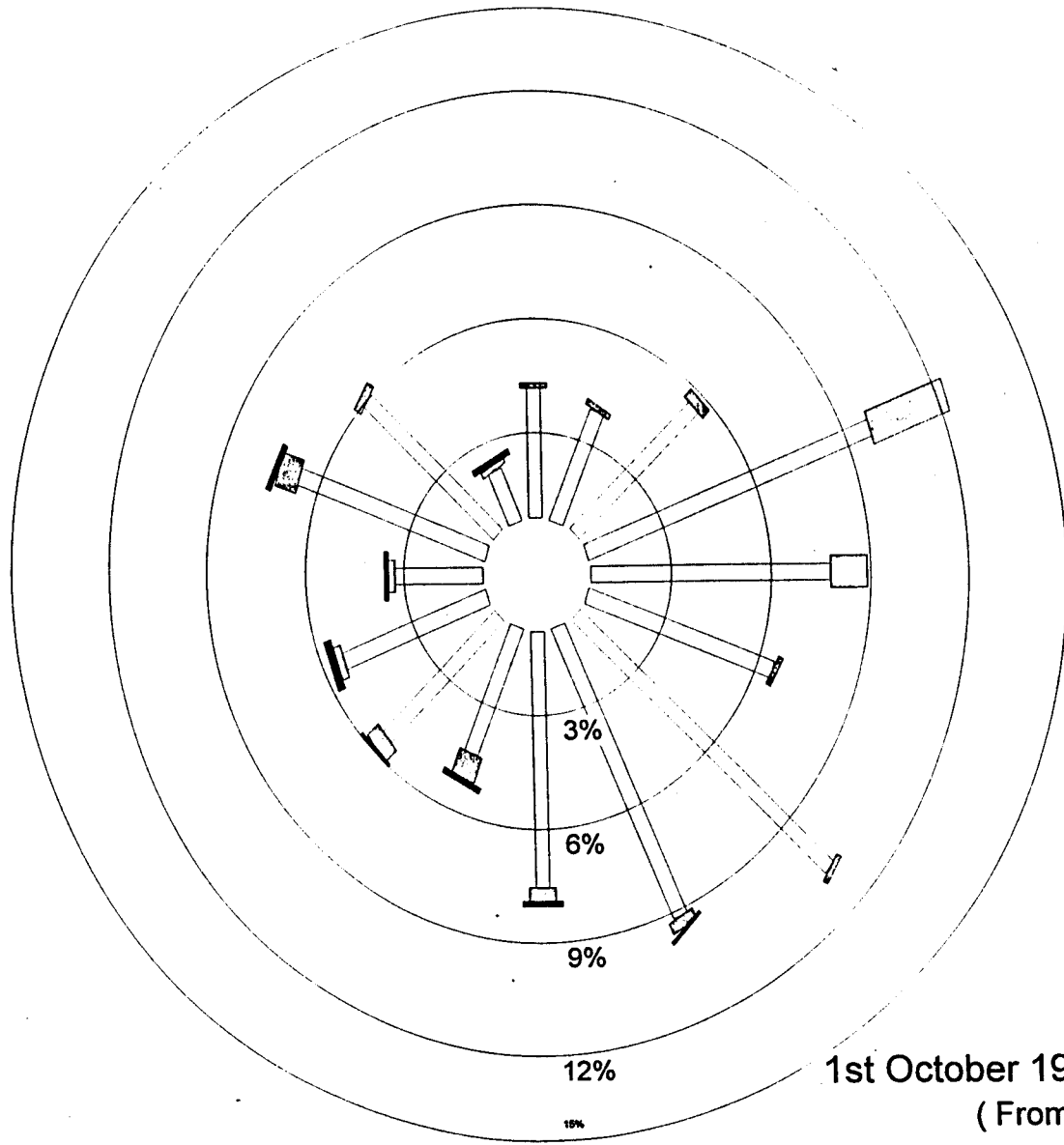


1st September 1998 to 30th September 1998  
( From 1 to 24 Hours )



# Chinnar WLS

Wind speed m/s



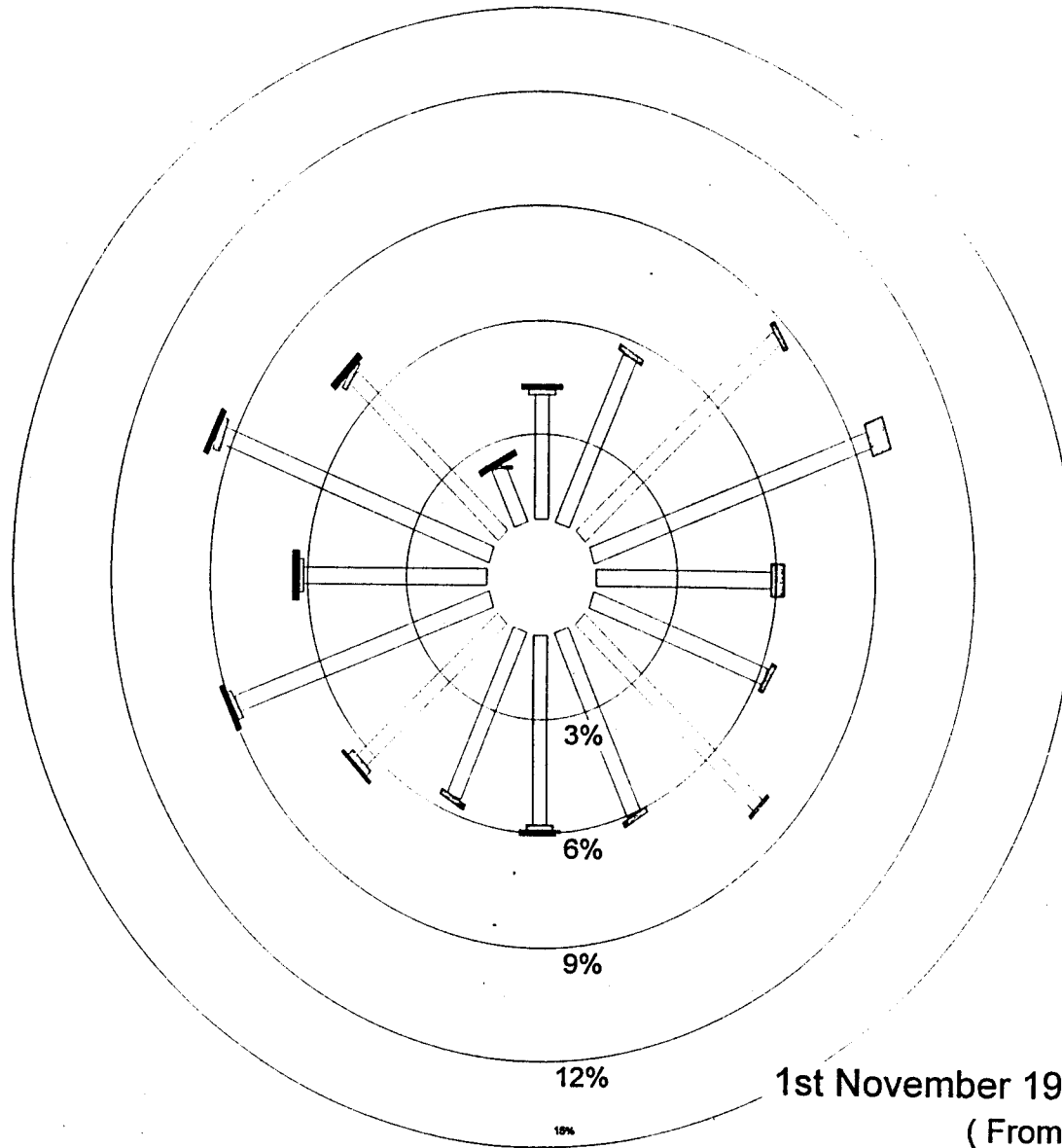
1st October 1998 to 31st October 1998  
( From 1 to 24 Hours )





# Chinnar WLS

Wind speed m/s

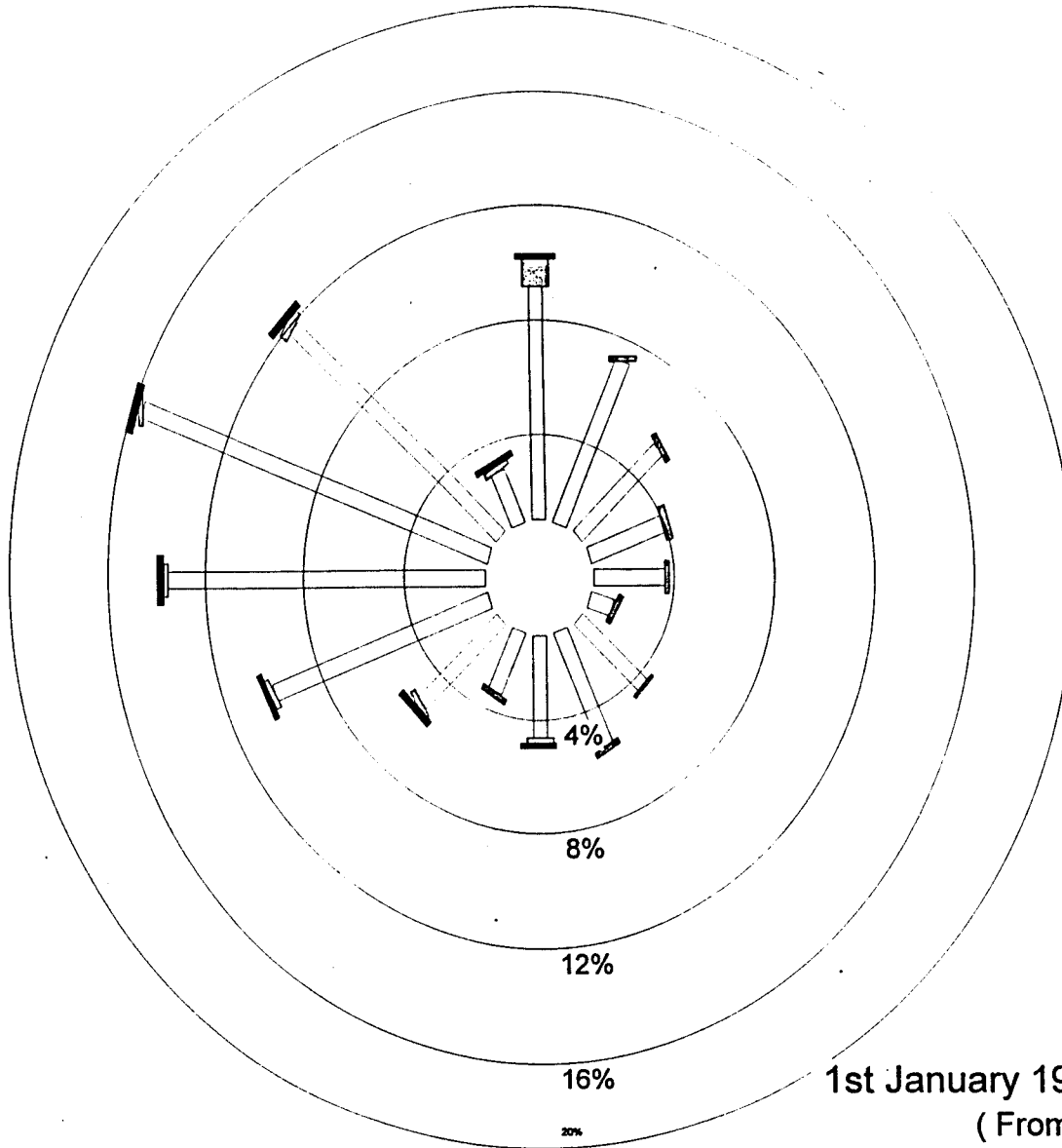


1st November 1998 to 30th November 1998  
( From 1 to 24 Hours )



# Chinnar WLS

Wind speed m/s



0 to 2

2 to 4

4 to 6

6 to 8

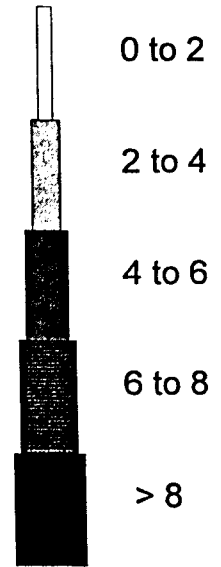
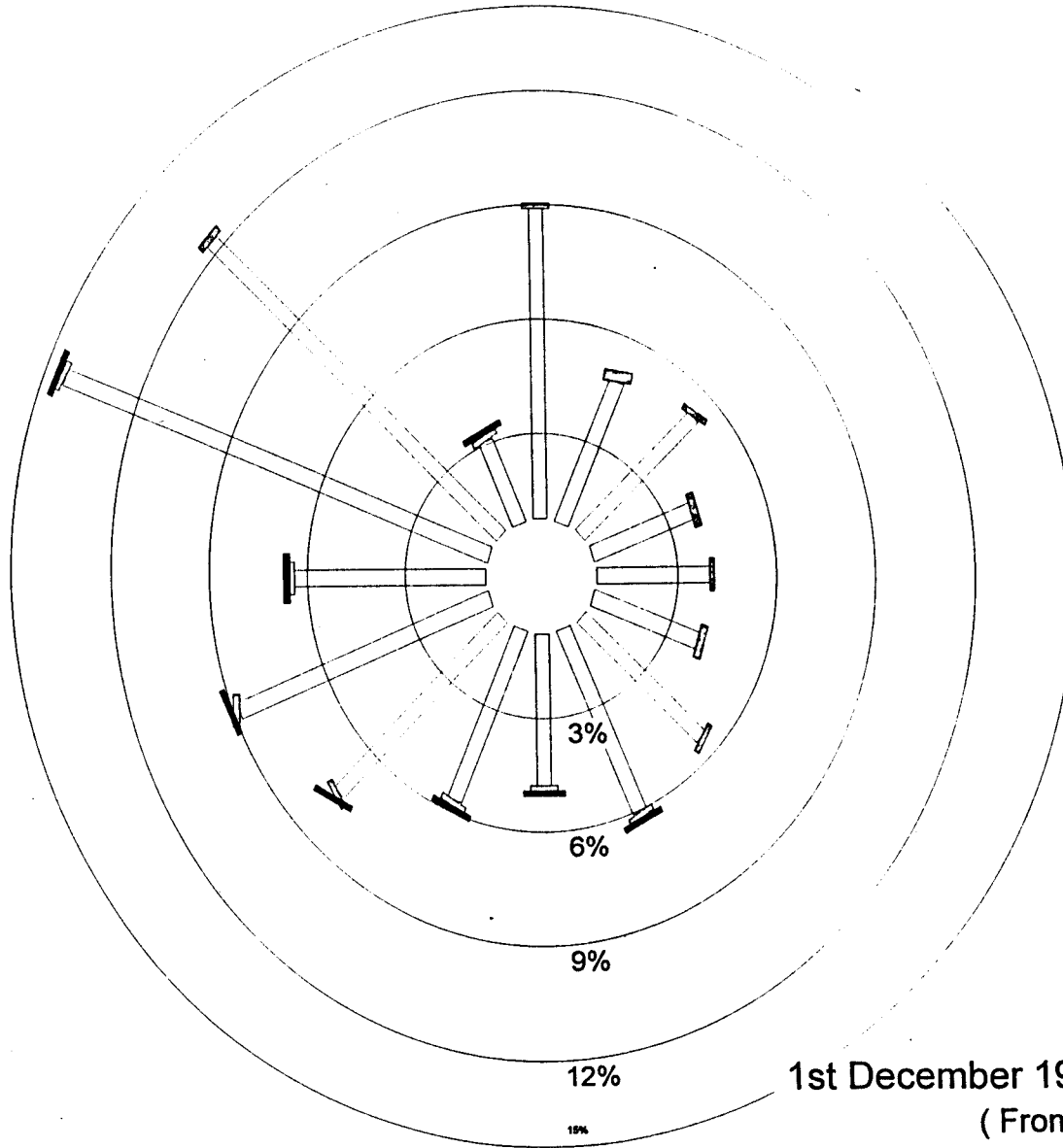
> 8

1st January 1999 to 31st January 1999  
( From 1 to 24 Hours )



# Chinnar WLS

Wind speed m/s

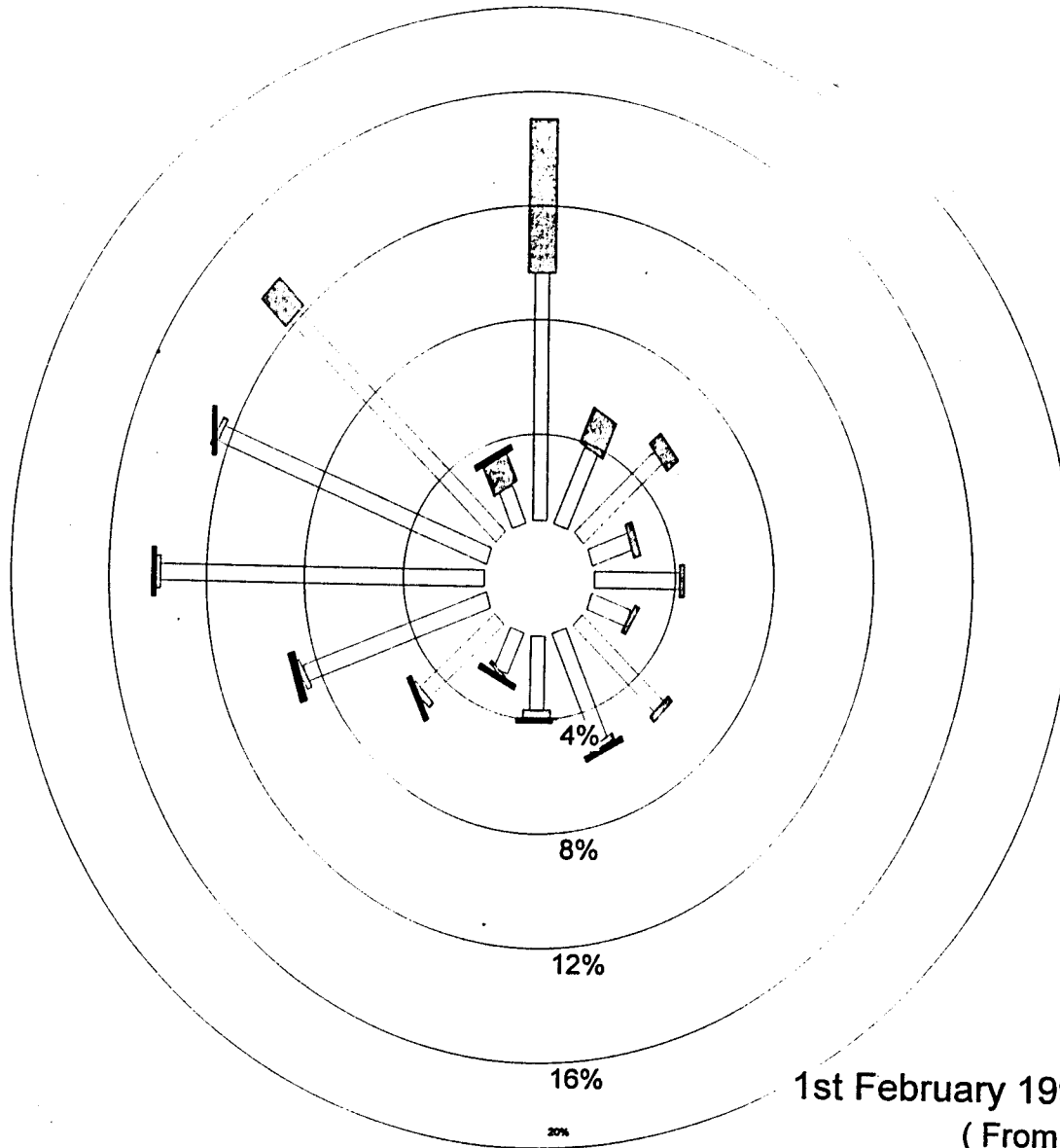


1st December 1998 to 31st December 1998  
(From 1 to 24 Hours)



# Chinnar WLS

Wind speed m/s



0 to 2

2 to 4

4 to 6

6 to 8

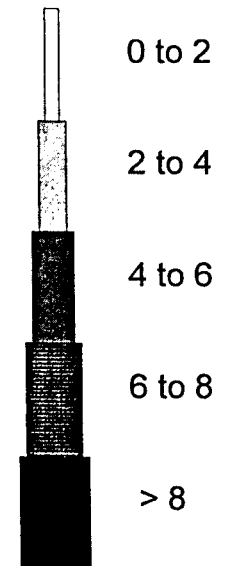
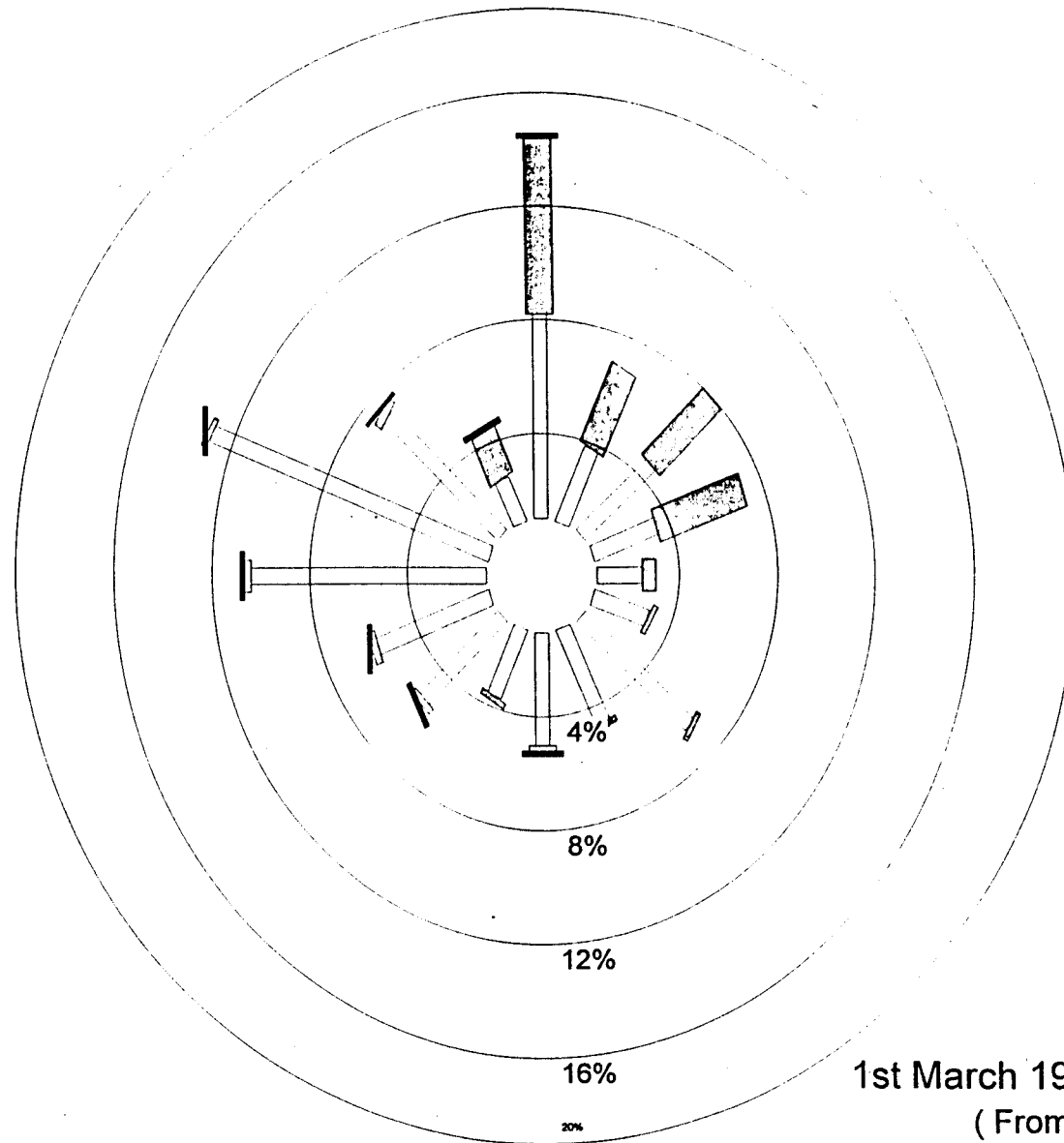
> 8

1st February 1999 to 28th February 1999  
( From 1 to 24 Hours )



# Chinnar WLS

Wind speed m/s

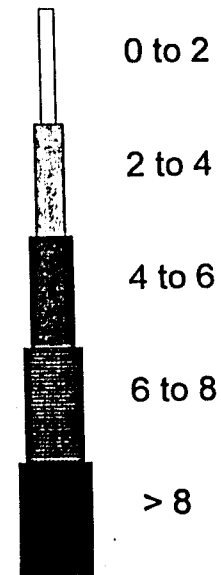
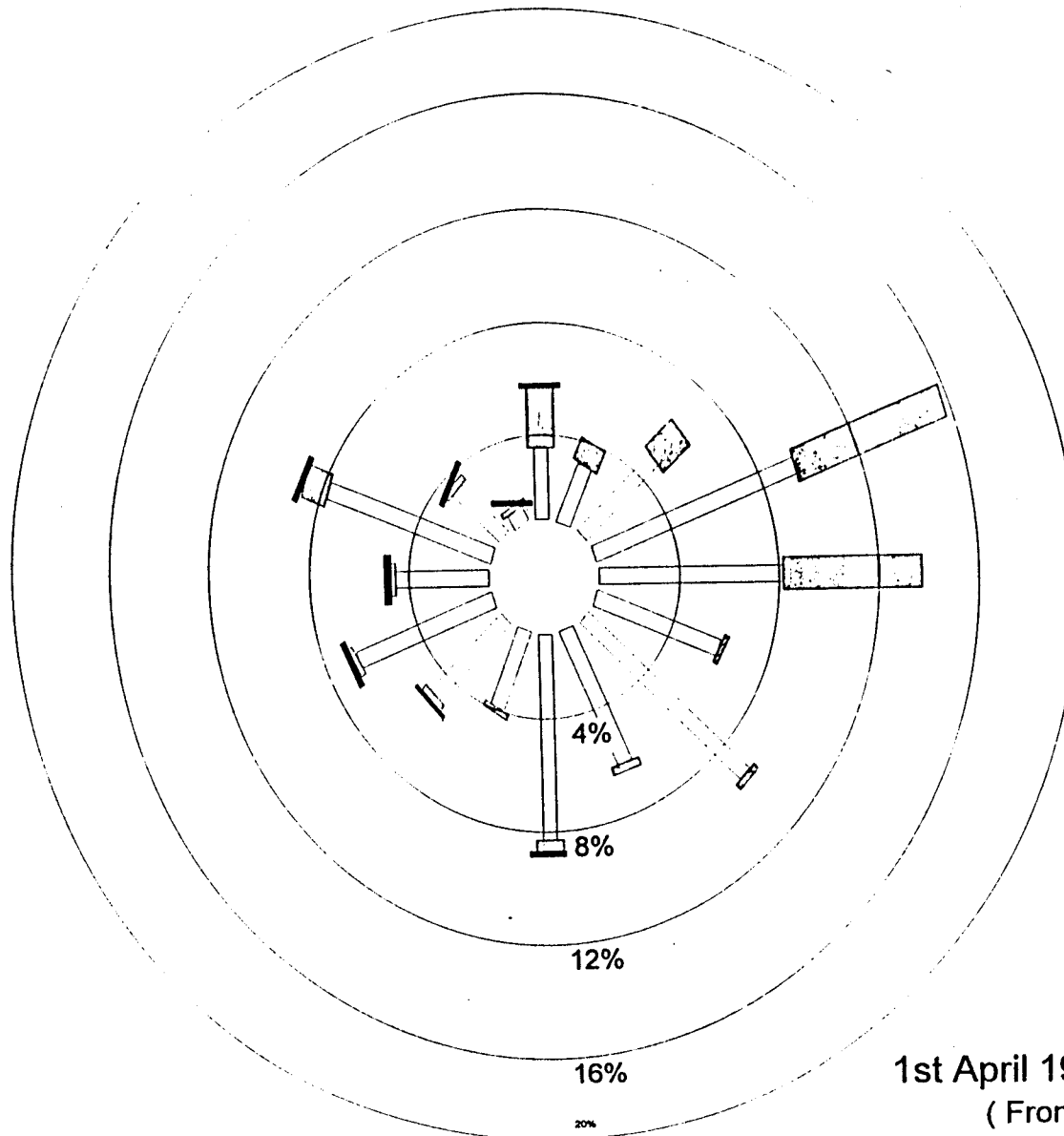


1st March 1999 to 31st March 1999  
( From 1 to 24 Hours )



# Chinnar WLS

Wind speed m/s



1st April 1999 to 30th April 1999  
( From 1 to 24 Hours )

### 3. Silent Valley National Park

KERALA FOREST RESEARCH INSTITUTE. DAILY FOREST METEOROLOGICAL DATA  
 Station 2. Silent Valley NP 1st April 1997 to 30th April 1997

Day	Wind speed			Temperature			Humidity			Rain	Solar	Soil(15cm)			Soil(30cm)		
	m/s			oc			%			mm	MJ/m2	temp oC			temp oc		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Total	Total	Min	Avg	Max	Min	Avg	Max
1 ( 91)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
2 ( 92)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
3 ( 93)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
4 ( 94)	0.3	1.4	2.5	20.5	23.5	26.0	64.5	73.4	86.4	0.0	5.0	25.5	26.3	26.8	25.4	25.5	26.0
5 ( 95)	0.8	2.2	3.7	18.1	21.7	26.1	60.8	78.2	93.5	0.0	23.0	23.2	24.9	26.6	24.6	25.0	25.4
6 ( 96)	0.8	2.5	4.4	17.7	21.9	26.6	63.4	75.6	86.2	0.0	23.6	23.2	25.2	27.5	24.8	25.2	25.7
7 ( 97)	0.7	1.8	3.2	19.3	22.5	26.4	67.4	79.4	92.7	0.2	14.8	24.3	25.5	26.6	25.3	25.6	25.8
8 ( 98)	0.7	1.9	3.2	18.4	21.6	26.0	64.5	82.1	91.9	0.4	16.0	23.7	25.1	26.5	25.0	25.4	25.7
9 ( 99)	1.0	2.2	4.1	18.7	21.7	26.1	63.0	82.6	94.0	0.4	22.1	23.6	25.5	27.7	25.0	25.3	25.8
10 (100)	0.8	2.2	3.7	18.6	22.6	27.9	43.8	76.6	92.9	0.0	25.8	24.3	26.5	29.2	25.4	25.8	26.5
11 (101)	1.0	2.7	4.4	19.7	22.3	26.9	59.7	75.4	94.4	0.0	28.3	24.9	27.3	29.9	26.0	26.5	27.1
12 (102)	0.5	2.4	4.1	18.2	22.0	27.6	47.4	77.1	93.1	0.0	27.5	25.5	27.9	30.3	26.5	27.0	27.5
13 (103)	0.6	2.3	3.5	18.9	23.2	29.4	33.9	65.0	89.6	0.0	28.2	25.5	28.2	30.9	26.8	27.3	27.9
14 (104)	1.3	2.3	3.7	18.5	22.2	28.1	49.5	69.2	85.2	0.0	27.3	26.1	28.6	31.3	27.2	27.7	28.2
15 (105)	0.9	2.0	3.4	17.9	21.6	26.3	49.8	77.9	93.5	0.0	21.6	26.5	28.5	30.3	27.4	27.9	28.3
16 (106)	1.1	2.6	4.5	18.4	21.3	26.2	67.8	82.4	94.1	4.8	23.2	26.0	28.1	30.3	27.2	27.7	28.2
17 (107)	0.8	2.2	3.7	17.8	21.5	27.2	62.0	80.0	91.7	0.0	23.4	24.8	26.8	28.6	26.6	27.2	28.0
18 (108)	1.3	2.1	3.6	18.7	21.9	25.9	62.5	78.2	93.8	0.0	16.3	24.9	26.5	27.9	26.4	26.8	27.3
19 (109)	0.5	2.2	4.1	18.0	21.9	27.6	57.3	81.1	94.4	0.0	16.9	24.4	26.1	27.7	26.1	26.5	26.9
20 (110)	0.9	2.3	4.8	19.6	21.8	25.2	65.8	78.5	91.2	15.8	14.4	24.5	25.7	27.0	25.9	26.3	26.7
21 (111)	1.0	2.2	3.6	18.9	22.4	26.6	62.1	76.8	93.2	0.0	18.9	23.0	24.5	26.0	25.0	25.5	26.1
22 (112)	0.9	2.0	3.0	17.3	21.0	26.2	59.8	82.9	93.8	0.0	15.7	22.8	24.2	25.4	24.8	25.2	25.6
23 (113)	0.7	2.1	3.8	17.7	21.6	26.0	65.3	80.9	92.3	0.2	15.2	22.8	24.2	25.4	24.6	24.9	25.2
24 (114)	0.6	1.9	2.7	18.0	22.0	27.9	59.2	81.3	92.9	0.0	18.0	22.5	24.3	26.3	24.4	24.8	25.1
25 (115)	0.9	2.0	3.0	18.2	22.3	27.7	62.2	81.9	94.6	0.0	18.6	23.3	25.2	27.1	24.8	25.1	25.6
26 (116)	1.2	2.3	3.3	19.0	22.1	27.1	56.7	78.6	92.9	0.2	22.7	23.8	26.1	28.8	25.1	25.6	26.2
27 (117)	0.5	2.6	6.8	18.4	22.3	27.6	60.6	80.7	93.3	0.0	16.7	24.2	26.0	27.8	25.5	25.9	26.3
28 (118)	0.7	2.0	3.2	19.4	21.8	25.5	72.1	84.4	93.5	0.0	15.7	24.6	26.3	27.9	25.6	26.0	26.3
29 (119)	0.3	2.0	3.7	17.6	21.9	26.1	68.5	82.6	93.8	0.0	18.1	24.2	26.1	27.9	25.6	26.0	26.3
30 (120)	1.1	1.9	2.7	18.4	22.3	27.7	61.1	83.4	93.2	0.0	15.0	24.8	26.3	27.8	25.8	26.1	26.4
	0.3	2.2	6.8	17.3	22.0	29.4	33.9	78.8	94.6	22.0	532	22.5	26.2	31.3	24.4	26.1	28.3

-99.00 indicate No data or Invalid data.



KERALA FOREST RESEARCH INSTITUTE, DAILY FOREST METEOROLOGICAL DATA  
 Station 2, Silent Valley NP 1st May 1997 to 31st May 1997

Day	Wind speed			Temperature			Humidity			Rain mm	Solar MJ/m2	Soil(15cm)			Soil(30cm)		
	m/s			oC			%					temp oC			temp oC		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Total	Total	Min	Avg	Max	Min	Avg	Max
1 (121)	1.0	1.9	3.2	19.6	22.1	26.6	68.7	85.3	94.4	47.6	12.8	24.1	25.8	27.0	25.9	26.1	26.6
2 (122)	0.9	2.1	3.5	20.0	22.9	26.5	67.0	77.8	92.5	0.0	20.5	23.3	24.8	26.8	25.0	25.3	25.8
3 (123)	0.9	2.3	4.3	18.8	21.3	25.3	73.7	85.2	93.7	17.4	18.4	23.7	25.1	26.5	25.0	25.5	25.8
4 (124)	1.0	2.3	3.8	18.0	21.4	26.8	63.6	84.0	94.0	0.0	22.7	23.0	24.8	26.8	24.7	25.2	25.6
5 (125)	1.1	2.1	3.8	18.8	21.8	25.4	71.4	86.4	95.7	0.2	16.7	23.4	24.9	26.2	24.9	25.2	25.5
6 (126)	0.7	1.7	3.3	19.5	21.5	26.1	73.8	90.5	95.9	55.4	14.9	23.9	24.9	26.8	25.0	25.3	25.9
7 (127)	1.1	2.1	5.0	18.3	21.2	24.9	71.9	89.9	96.3	29.2	13.1	22.9	23.9	25.2	24.5	24.8	25.4
8 (128)	0.8	1.8	3.0	19.5	21.6	23.8	86.2	91.2	95.1	7.6	10.2	22.9	23.9	25.0	24.2	24.4	24.7
9 (129)	1.1	2.1	3.3	19.1	22.3	25.6	74.1	88.1	94.8	0.0	16.2	23.0	24.3	25.9	24.2	24.5	24.9
10 (130)	0.8	2.3	3.8	20.2	22.8	26.1	67.8	86.7	95.7	0.0	19.7	23.2	24.8	26.5	24.4	24.7	25.2
11 (131)	1.5	2.3	3.9	20.4	22.4	24.9	84.4	90.2	95.4	0.0	17.9	24.0	25.4	27.0	24.9	25.1	25.5
12 (132)	0.7	2.4	3.7	19.9	22.7	26.2	74.1	85.7	92.5	0.0	22.6	23.9	25.8	28.3	24.9	25.3	25.9
13 (133)	1.0	2.3	3.9	19.3	22.5	26.0	74.4	85.2	94.7	0.0	23.3	24.4	26.7	29.4	25.4	25.9	26.5
14 (134)	0.4	1.9	2.8	19.0	22.1	25.2	81.1	89.3	95.3	0.0	14.3	25.1	26.6	27.8	25.9	26.3	26.6
15 (135)	0.7	1.9	4.1	20.3	22.1	25.1	76.8	88.9	95.6	0.2	13.4	24.7	26.0	27.2	25.6	26.0	26.4
16 (136)	1.4	2.3	4.4	20.5	21.6	23.8	81.5	89.6	96.5	0.6	11.7	24.8	25.8	26.8	25.6	25.8	26.1
17 (137)	0.7	2.3	3.4	19.0	21.4	23.5	70.6	81.5	91.4	0.0	13.0	23.8	25.1	26.2	25.1	25.5	25.9
18 (138)	1.0	3.1	4.3	18.6	21.3	24.4	74.8	86.2	95.7	0.6	18.3	23.4	25.1	27.0	24.8	25.2	25.6
19 (139)	1.4	3.1	4.5	20.4	21.7	24.3	76.4	87.7	94.3	0.2	17.2	24.2	25.6	27.3	25.1	25.4	25.7
20 (140)	1.1	2.7	4.7	19.2	22.0	26.2	65.7	80.6	93.5	0.0	26.1	24.1	26.5	29.6	25.2	25.6	26.4
21 (141)	1.4	2.5	4.2	18.6	22.0	26.1	58.5	79.4	92.0	0.0	26.0	25.2	27.6	30.5	26.0	26.4	27.1
22 (142)	1.0	2.3	3.1	18.6	21.9	26.6	64.7	82.2	95.6	0.0	25.1	25.6	28.1	30.9	26.4	26.9	27.5
23 (143)	0.8	1.8	2.9	20.5	22.8	26.5	72.2	86.6	96.3	0.2	21.1	26.9	28.7	30.6	27.0	27.4	27.8
24 (144)	0.8	1.9	4.2	20.9	22.7	25.5	75.6	87.0	95.7	0.0	13.9	27.1	28.4	29.5	27.3	27.6	27.9
25 (145)	0.9	1.9	2.7	21.5	23.0	25.8	73.4	87.4	95.0	0.0	13.4	26.5	27.7	28.6	27.0	27.3	27.7
26 (146)	1.0	2.3	3.9	20.5	23.1	27.9	66.8	85.1	96.0	0.4	19.9	25.8	27.6	29.8	26.6	27.0	27.5
27 (147)	1.8	2.7	5.7	18.8	21.6	24.5	70.6	84.8	94.2	22.2	22.9	24.9	26.5	28.5	26.3	26.8	27.6
28 (148)	1.6	2.5	3.8	19.0	21.9	25.3	70.5	82.1	90.4	0.0	18.6	24.4	25.8	27.0	25.9	26.3	26.8
29 (149)	1.3	2.1	3.2	19.2	22.3	25.4	68.9	81.1	95.7	0.0	21.5	23.9	25.7	27.6	25.5	25.9	26.3
30 (150)	0.4	1.9	3.0	20.4	22.3	24.6	76.9	86.2	94.9	0.0	19.2	24.9	26.3	27.7	25.9	26.1	26.4
31 (151)	1.0	2.1	4.2	19.5	22.3	25.0	71.0	86.3	94.2	0.0	17.5	25.0	26.5	27.7	26.0	26.3	26.5
	0.4	2.2	5.7	18.0	22.1	27.9	58.5	85.7	96.5	181.8	562	22.9	26.0	30.9	24.2	25.8	27.9

-99.00 indicate No data or Invalid data.

## KERALA FOREST RESEARCH INSTITUTE. DAILY FOREST METEOROLOGICAL DATA

Station 2. Silent Valley NP 1st June 1997 to 30th June 1997

Day	Wind speed			Temperature			Humidity			Rain	Solar	Soil(15cm)			Soil(30cm)		
	m/s			oC			%			mm	MJ/m2	temp oC			temp oC		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Total	Total	Min	Avg	Max	Min	Avg	Max
1 (152)	0.7	2.6	4.2	20.1	22.4	25.4	70.1	84.9	94.1	0.0	20.1	24.9	26.7	28.6	25.9	26.3	26.7
2 (153)	0.9	2.1	3.8	19.8	22.4	27.2	57.1	79.9	94.7	0.0	23.9	25.4	27.3	29.6	26.2	26.6	27.1
3 (154)	1.3	2.5	3.8	20.1	22.5	26.1	70.5	85.0	93.4	0.0	20.2	26.1	27.7	29.3	26.7	27.0	27.3
4 (155)	1.5	2.6	4.4	19.6	21.8	26.1	70.4	84.0	91.5	24.4	21.5	25.7	27.2	30.8	26.5	27.1	27.6
5 (156)	0.5	1.9	2.7	19.7	22.1	25.8	74.3	84.6	93.6	0.2	14.9	24.8	25.8	26.9	26.0	26.4	27.1
6 (157)	1.0	2.2	3.5	19.8	22.1	26.1	69.4	82.2	92.3	0.0	21.4	24.2	25.6	27.2	25.5	25.9	26.3
7 (158)	1.0	2.3	3.8	18.8	22.3	25.7	68.0	83.7	93.3	0.0	20.6	24.3	25.8	27.5	25.5	25.9	26.2
8 (159)	0.8	2.8	4.4	19.1	21.5	24.6	69.6	84.7	96.3	6.8	20.3	24.9	26.2	27.8	25.8	26.1	26.4
9 (160)	1.0	2.5	4.7	18.8	20.5	23.5	78.6	88.2	94.6	7.4	15.3	24.3	25.2	26.4	25.5	25.9	26.4
10 (161)	0.8	2.2	4.2	17.7	20.7	24.6	73.0	87.0	94.0	0.2	19.4	23.0	24.4	25.8	24.7	25.1	25.6
11 (162)	1.3	2.5	3.6	18.6	21.0	23.8	80.6	89.9	95.8	6.2	16.3	23.4	24.5	25.4	24.7	25.0	25.2
12 (163)	0.6	2.3	5.6	18.6	19.9	21.6	90.6	93.5	96.4	39.8	7.1	22.6	23.5	24.6	23.8	24.5	25.1
13 (164)	1.0	1.8	4.1	18.5	20.2	23.5	78.3	90.7	96.4	55.2	12.2	22.2	22.7	23.9	23.3	23.6	23.7
14 (165)	0.5	2.0	3.5	18.4	19.9	21.9	80.9	91.1	97.0	8.4	13.0	21.6	22.5	23.6	22.9	23.1	23.4
15 (166)	0.5	1.9	4.0	18.1	20.0	22.3	80.5	90.9	96.5	6.8	13.6	22.0	23.0	24.1	23.1	23.3	23.7
16 (167)	1.9	2.5	3.4	17.6	21.3	25.7	67.5	83.1	93.4	0.0	26.6	21.8	23.4	25.4	23.2	23.5	24.0
17 (168)	1.7	2.7	3.8	19.4	21.2	25.0	73.0	87.8	93.7	5.8	19.2	22.8	24.0	25.0	23.8	24.0	24.3
18 (169)	1.9	3.0	5.3	19.5	20.6	22.5	70.1	87.7	93.9	3.4	14.2	22.8	23.5	24.2	23.8	24.0	24.3
19 (170)	1.8	2.6	3.7	20.0	21.5	23.9	73.1	81.6	90.7	0.0	18.0	22.1	23.3	24.5	23.4	23.7	23.9
20 (171)	1.4	2.5	4.4	19.6	21.3	23.9	78.8	88.8	94.7	3.8	16.9	22.8	23.7	24.8	23.6	23.8	24.1
21 (172)	1.6	2.5	4.0	19.1	21.6	25.1	71.5	85.7	92.4	0.0	21.2	22.7	24.0	25.4	23.7	24.0	24.3
22 (173)	1.8	2.8	4.2	19.1	21.6	26.0	69.6	84.0	92.4	3.8	21.9	22.9	24.2	25.4	23.9	24.2	24.5
23 (174)	1.7	3.4	5.7	19.1	20.6	22.1	65.7	85.0	95.7	11.6	9.7	22.9	23.5	24.5	23.9	24.1	24.5
24 (175)	2.0	3.6	5.0	19.6	20.4	21.6	81.1	93.4	96.5	18.8	5.9	22.1	22.4	22.8	23.0	23.3	23.9
25 (176)	2.7	3.9	5.4	18.6	19.8	21.1	88.6	93.5	96.2	47.2	5.5	21.0	21.7	22.2	22.1	22.6	23.0
26 (177)	2.6	3.3	4.5	19.2	20.0	20.9	81.5	94.0	96.6	24.2	5.3	20.7	21.0	21.6	21.8	21.9	22.0
27 (178)	2.8	3.8	5.4	18.5	20.0	21.2	87.2	92.7	96.7	28.0	7.5	20.7	21.2	21.7	21.0	21.7	21.9
28 (179)	2.8	3.7	4.7	19.1	19.7	20.4	90.4	95.1	96.8	69.6	4.7	20.4	20.8	21.3	21.0	21.3	21.8
29 (180)	3.3	3.9	5.0	19.2	19.7	20.4	94.4	95.7	96.8	91.6	5.3	20.1	20.5	20.9	20.6	20.8	21.2
30 (181)	2.4	3.9	6.2	18.1	18.9	19.5	90.0	95.8	97.0	124.4	4.4	19.4	19.8	20.5	20.0	20.3	20.9
	0.5	2.7	6.2	17.6	20.9	27.2	57.1	88.1	97.0	587.6	446	19.4	23.8	30.8	20.0	24.2	27.6

-99.00 indicate No data or Invalid data.

KERALA FOREST RESEARCH INSTITUTE, DAILY FOREST METEOROLOGICAL DATA  
 Station 2. Silent Valley NP 1st July 1997 to 31st July 1997

Day	Wind speed			Temperature			Humidity			Rain mm	Solar MJ/m2	Soil(15cm)			Soil(30cm)		
	m/s			oc			%					temp oC			temp oC		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Total	Total	Min	Avg	Max	Min	Avg	Max
1 (182)	3.6	4.8	6.4	18.1	19.1	19.7	95.2	96.9	97.6	96.8	4.4	19.3	19.7	20.3	19.6	19.8	20.1
2 (183)	2.9	3.8	5.0	18.4	19.5	21.0	87.3	93.5	97.1	18.8	9.4	19.5	20.0	20.8	19.9	20.0	20.3
3 (184)	2.7	3.7	6.5	18.8	19.5	20.2	82.0	91.9	96.6	15.6	6.3	19.8	20.2	20.6	20.2	20.3	20.4
4 (185)	2.9	3.5	4.3	19.3	19.7	20.0	84.6	92.6	97.1	16.0	4.1	19.7	20.0	20.3	20.2	20.3	20.4
5 (186)	2.6	3.5	5.3	19.0	19.5	19.9	91.0	96.1	97.3	74.4	2.3	19.8	20.0	20.2	20.0	20.2	20.3
6 (187)	2.8	3.9	6.1	18.5	19.4	20.0	94.4	96.6	97.5	72.0	2.2	19.7	19.9	20.0	20.0	20.1	20.2
7 (188)	3.4	4.5	6.1	18.4	19.3	19.9	87.9	94.6	97.7	67.8	3.7	19.5	19.7	19.8	19.7	19.8	20.0
8 (189)	2.6	4.0	4.9	19.0	20.2	21.5	88.6	93.4	96.0	34.0	8.2	19.6	20.2	21.1	19.9	20.0	20.6
9 (190)	2.2	4.0	6.0	19.1	19.8	20.4	90.7	95.5	97.7	36.6	2.7	20.2	20.4	20.8	20.3	20.4	20.6
10 (191)	2.0	3.8	6.0	18.1	19.7	21.3	81.7	94.5	98.1	215.2	4.6	19.2	20.0	20.7	19.7	20.3	20.5
11 (192)	1.7	3.7	6.7	18.0	19.2	22.0	65.6	88.4	96.7	68.6	9.2	18.8	19.3	19.8	19.4	19.5	19.6
12 (193)	2.5	4.1	5.8	19.2	20.1	22.1	73.1	89.4	97.5	13.2	12.7	19.1	19.7	20.8	19.5	19.6	19.9
13 (194)	2.6	3.1	4.0	19.7	20.2	20.9	83.9	94.6	96.8	32.0	5.6	20.0	20.4	20.8	20.0	20.1	20.4
14 (195)	2.3	3.5	5.8	19.0	20.4	22.4	86.3	92.8	96.8	40.4	13.4	20.2	20.9	22.2	20.3	20.6	21.4
15 (196)	3.2	4.1	5.1	19.5	20.5	22.2	86.7	93.7	96.9	6.6	12.2	20.7	21.2	21.8	20.8	21.0	21.3
16 (197)	3.1	4.1	5.4	18.8	20.3	22.1	87.3	94.1	96.5	70.2	11.2	20.6	21.3	22.2	20.9	21.2	21.7
17 (198)	2.4	3.5	5.1	19.7	20.7	22.6	88.6	93.6	97.1	7.8	12.0	20.9	21.5	22.4	21.1	21.3	21.6
18 (199)	2.4	3.4	4.5	19.2	20.2	21.0	89.4	94.5	97.2	7.2	7.5	21.3	21.6	22.0	21.4	21.4	21.6
19 (200)	2.1	3.1	5.9	19.5	20.9	23.6	82.7	90.9	95.9	2.4	15.7	20.9	21.6	22.6	21.2	21.3	21.6
20 (201)	1.7	3.0	4.4	19.7	20.9	23.3	74.3	86.6	93.6	4.0	17.5	21.4	22.1	22.9	21.5	21.6	21.9
21 (202)	1.8	2.9	4.2	19.4	21.1	24.1	68.8	88.0	97.2	197.4	15.5	20.9	21.9	23.3	21.3	21.8	22.7
22 (203)	1.2	3.0	4.9	18.7	20.2	22.0	90.9	95.2	97.6	2.8	10.2	20.6	21.1	21.7	21.0	21.1	21.3
23 (204)	1.5	2.5	4.0	19.4	20.0	21.3	92.0	96.3	97.8	9.2	4.6	21.2	21.4	21.7	21.3	21.4	21.5
24 (205)	1.0	3.1	5.7	18.8	19.2	19.8	92.3	97.3	98.4	103.6	4.0	20.1	20.6	21.4	20.7	21.0	21.5
25 (206)	2.7	4.4	6.0	18.0	19.0	20.0	92.7	97.3	98.6	115.6	5.6	19.3	19.7	20.2	20.0	20.1	20.6
26 (207)	2.2	3.7	4.7	19.0	19.5	20.1	93.5	96.4	98.3	37.0	4.1	19.7	20.0	20.4	20.1	20.1	20.3
27 (208)	2.2	3.1	4.0	18.8	19.4	20.4	94.0	96.6	98.3	51.6	5.7	19.9	20.2	20.7	20.2	20.3	20.4
28 (209)	2.8	4.1	5.8	18.0	19.7	21.5	76.9	92.0	98.7	37.0	11.0	19.6	20.2	20.7	20.1	20.3	20.4
29 (210)	3.1	4.1	5.0	18.8	19.6	20.5	91.0	95.7	98.5	35.2	5.2	20.0	20.3	20.5	20.3	20.4	20.4
30 (211)	3.8	5.9	8.6	19.3	20.0	20.6	95.7	98.0	99.1	69.2	3.4	20.0	20.3	20.6	20.2	20.3	20.5
31 (212)	5.3	6.9	8.6	19.5	20.0	20.5	89.8	95.9	98.3	56.8	3.5	19.9	20.2	20.4	20.1	20.3	20.4
	1.0	3.8	8.6	18.0	19.9	24.1	65.6	94.0	99.1	1615.0	238	18.8	20.5	23.3	19.4	20.5	22.7

-99.00 indicate No data or Invalid data.

KERALA FOREST RESEARCH INSTITUTE. DAILY FOREST METEOROLOGICAL DATA  
 Station 2, Silent Valley NP 1st August 1997 to 31st August 1997

Day	Wind speed			Temperature			Humidity			Rain	Solar	Soil(15cm)			Soil(30cm)		
	m/s			oC			%			mm	MJ/m2	temp oC			temp oC		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Total	Total	Min	Avg	Max	Min	Avg	Max
1 (213)	4.4	6.4	8.3	19.2	20.1	21.1	93.0	96.5	98.6	114.8	3.5	20.0	20.2	20.6	20.1	20.2	20.4
2 (214)	3.5	4.7	6.3	19.1	19.8	20.3	92.6	96.2	98.4	73.4	4.6	19.8	20.1	20.5	20.0	20.2	20.4
3 (215)	3.5	4.5	6.1	18.7	19.5	19.8	91.7	97.2	98.8	32.4	3.8	19.9	20.1	20.3	20.1	20.2	20.3
4 (216)	3.8	4.8	6.9	18.7	19.7	20.7	91.2	94.4	98.2	1.6	7.6	19.8	20.1	20.4	20.1	20.1	20.2
5 (217)	4.0	5.3	7.0	18.9	20.0	21.8	77.1	86.1	93.5	1.0	15.0	19.6	20.2	20.8	20.0	20.2	20.3
6 (218)	3.3	4.4	6.2	18.7	19.3	19.8	89.8	96.1	97.9	55.2	3.6	19.7	20.0	20.5	20.0	20.2	20.4
7 (219)	2.6	3.9	6.1	18.5	18.9	19.7	95.4	97.5	98.8	69.6	3.5	19.2	19.5	19.9	19.6	19.8	20.1
8 (220)	1.5	3.2	5.8	18.6	19.7	21.9	83.4	93.8	99.0	15.2	9.4	19.6	20.0	20.9	19.8	19.9	20.2
9 (221)	1.6	2.9	4.7	18.2	19.7	21.5	77.0	89.0	97.6	29.2	10.4	19.9	20.4	21.1	20.1	20.3	20.5
10 (222)	2.3	2.8	3.8	18.8	19.8	21.3	75.6	87.8	97.1	5.4	10.0	19.9	20.4	20.8	20.3	20.4	20.5
11 (223)	2.2	3.2	4.1	18.5	20.2	22.3	83.6	92.5	98.7	0.8	15.3	20.1	20.8	21.6	20.3	20.5	20.8
12 (224)	1.2	2.4	4.0	19.0	19.8	22.3	88.3	97.3	99.5	20.4	10.1	20.7	21.2	21.6	20.8	20.9	21.0
13 (225)	1.5	2.3	2.9	19.4	20.6	22.8	82.8	91.9	97.7	2.2	15.2	20.8	21.4	22.1	20.9	21.0	21.2
14 (226)	1.8	2.4	2.9	18.5	19.1	20.1	82.1	89.2	96.5	0.0	2.3	21.0	21.5	22.0	21.3	21.3	21.3
15 (227)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
16 (228)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
17 (229)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
18 (230)	3.1	3.1	3.1	19.5	19.5	19.5	95.8	95.8	95.8	0.0	0.0	21.3	21.3	21.3	21.4	21.4	21.4
19 (231)	1.8	2.8	4.0	18.8	19.6	20.9	94.3	97.7	99.5	11.6	7.9	20.8	21.2	21.7	21.2	21.3	21.4
20 (232)	2.3	3.2	3.8	19.4	19.9	20.4	95.3	97.3	99.0	15.6	5.6	21.0	21.2	21.5	21.3	21.4	21.5
21 (233)	2.5	3.4	5.1	19.6	20.3	21.6	90.3	96.2	99.5	28.2	9.5	20.8	21.2	21.7	21.1	21.2	21.4
22 (234)	2.7	4.8	7.8	17.6	19.4	21.3	71.7	92.4	99.5	109.2	10.4	19.3	19.8	21.5	20.0	20.2	21.4
23 (235)	3.7	4.7	5.9	19.3	19.8	20.5	94.9	97.6	100.0	49.6	4.1	19.9	20.1	20.4	20.1	20.2	20.3
24 (236)	2.3	3.3	4.3	19.5	20.5	22.3	85.7	93.6	97.6	6.8	14.9	20.1	20.6	21.6	20.3	20.4	20.7
25 (237)	2.6	3.6	5.6	19.1	20.2	22.8	81.7	92.9	98.3	20.6	16.7	20.8	21.4	22.3	20.8	20.9	21.4
26 (238)	3.3	4.4	6.3	19.0	19.4	20.2	92.2	98.2	100.0	35.6	5.0	20.7	21.0	21.7	21.0	21.2	21.6
27 (239)	2.7	4.5	6.8	18.6	19.5	20.5	88.0	96.5	99.6	4.0	5.9	20.3	20.5	20.7	20.7	20.8	21.0
28 (240)	2.8	3.8	5.4	18.8	19.7	20.6	94.7	98.2	100.0	43.8	5.9	20.1	20.4	20.7	20.5	20.6	20.8
29 (241)	2.3	2.9	3.8	19.2	20.0	22.4	87.2	96.1	100.0	16.6	9.0	20.3	20.8	21.4	20.6	20.7	20.9
30 (242)	1.8	3.0	4.6	19.3	20.3	21.9	89.7	97.3	100.0	6.2	8.6	20.8	21.1	21.5	20.9	20.9	21.1
31 (243)	1.4	2.5	3.6	19.0	21.0	23.0	82.1	93.2	99.7	0.4	15.5	21.0	21.5	22.1	21.1	21.1	21.4
	1.2	3.7	8.3	17.6	19.8	23.0	71.7	94.6	100.0	769.4	233	19.2	20.6	22.3	19.6	20.6	21.6

-99.00 indicate No data or Invalid data.

KERALA FOREST RESEARCH INSTITUTE. DAILY FOREST METEOROLOGICAL DATA  
 Station 2, Silent Valley NP 1st September 1997 to 30th September 1997

Day	Wind speed			Temperature			Humidity			Rain	Solar	Soil(15cm)			Soil(30cm)		
	m/s			oC			%			mm	MJ/m2	temp oC			temp oC		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Total	Total	Min	Avg	Max	Min	Avg	Max
1 (244)	1.3	2.5	3.5	18.8	21.0	24.1	78.6	90.3	97.9	0.0	19.7	21.1	21.9	22.8	21.3	21.4	21.7
2 (245)	1.8	2.8	4.0	18.8	20.8	23.5	74.4	85.7	96.2	0.0	22.6	21.5	22.3	23.0	21.6	21.8	22.0
3 (246)	1.4	2.5	3.8	19.0	20.7	23.6	79.5	90.3	97.3	0.2	20.1	21.6	22.4	23.1	21.8	22.0	22.1
4 (247)	0.8	2.3	3.9	19.1	21.2	24.5	73.3	87.3	96.7	0.0	18.9	21.8	22.6	23.4	22.0	22.1	22.3
5 (248)	0.7	1.8	3.5	19.0	20.5	22.6	89.1	94.2	98.1	1.2	12.6	22.3	22.8	23.3	22.3	22.4	22.5
6 (249)	0.9	2.1	3.3	19.0	20.3	22.6	87.9	94.5	98.1	17.8	14.1	22.3	22.8	23.2	22.3	22.5	22.6
7 (250)	1.2	2.3	3.3	18.9	20.6	23.4	81.2	91.8	97.5	45.6	19.7	22.0	22.6	23.0	22.3	22.7	23.4
8 (251)	0.5	1.7	3.4	18.7	20.1	22.3	88.7	95.8	98.8	50.8	9.2	22.3	22.5	23.0	22.6	22.7	23.0
9 (252)	0.3	2.0	4.7	18.1	20.1	23.3	86.5	96.7	99.3	41.4	14.4	21.9	22.5	23.5	22.4	22.6	23.0
10 (253)	0.8	1.9	3.8	19.3	20.7	23.6	84.5	93.5	98.3	2.0	22.0	22.2	23.0	24.1	22.5	22.7	23.0
11 (254)	0.6	1.9	4.0	18.5	20.4	22.7	86.2	94.3	98.7	5.0	19.0	22.8	23.5	24.2	22.9	23.1	23.3
12 (255)	0.3	1.7	4.8	18.8	20.3	22.9	84.2	95.0	99.7	89.0	15.7	21.0	22.9	24.2	21.8	23.0	23.4
13 (256)	0.5	1.9	4.5	17.9	20.8	23.9	79.8	91.4	98.8	0.2	25.7	21.5	22.3	23.8	22.2	22.4	22.8
14 (257)	0.5	1.7	3.8	18.6	20.6	23.0	86.3	93.3	97.7	22.6	13.4	22.8	23.3	23.8	22.9	23.1	23.4
15 (258)	0.9	2.0	3.7	18.8	20.3	22.7	79.7	94.6	98.0	5.2	15.0	22.5	23.0	23.4	22.9	23.1	23.3
16 (259)	0.6	2.1	3.8	18.1	20.2	23.3	70.4	92.4	98.6	43.8	19.4	21.9	22.8	24.0	22.6	22.9	23.3
17 (260)	0.6	2.4	4.7	17.4	20.0	23.7	78.0	92.2	98.6	61.4	21.9	22.1	22.8	23.9	22.8	23.1	23.6
18 (261)	0.8	2.2	5.1	18.8	19.3	19.9	88.0	98.6	100.0	108.2	2.7	20.3	21.3	22.1	20.7	22.0	23.1
19 (262)	1.6	2.5	3.3	18.6	20.8	23.3	80.0	90.1	98.1	3.6	19.1	20.2	20.9	22.0	20.9	21.1	21.5
20 (263)	1.3	2.0	2.7	19.5	20.1	22.1	90.1	97.4	99.8	11.8	9.1	21.5	21.9	22.4	21.5	21.8	22.0
21 (264)	1.6	2.1	2.7	19.4	20.3	22.9	85.6	94.7	98.6	16.6	11.4	21.7	22.1	22.7	21.9	22.0	22.2
22 (265)	1.5	2.4	3.7	19.3	20.3	23.3	87.0	95.3	98.1	6.8	11.1	21.7	22.1	22.6	22.0	22.1	22.3
23 (266)	1.8	2.8	3.7	19.2	20.3	23.1	83.3	92.9	97.5	6.2	14.9	21.7	22.2	22.9	22.1	22.2	22.4
24 (267)	1.9	2.8	3.8	19.1	20.2	22.3	80.9	91.0	96.4	2.8	15.8	21.9	22.4	22.8	22.3	22.4	22.4
25 (268)	1.5	2.5	3.4	19.4	20.3	22.5	76.9	88.3	94.5	1.4	16.4	21.8	22.3	22.8	22.2	22.3	22.5
26 (269)	1.8	2.8	4.2	17.4	20.1	22.5	82.0	89.4	95.7	0.0	16.7	21.7	22.3	22.7	22.2	22.3	22.5
27 (270)	1.0	2.3	3.6	17.1	20.2	24.2	71.1	90.3	97.0	0.6	18.7	21.6	22.3	23.3	22.1	22.3	22.5
28 (271)	1.1	2.2	3.5	17.2	19.8	22.3	80.6	89.6	95.7	0.2	17.0	21.8	22.5	23.0	22.3	22.5	22.6
29 (272)	1.3	2.3	3.8	17.0	20.1	23.0	82.1	90.8	95.7	0.0	17.8	21.7	22.4	23.0	22.3	22.4	22.6
30 (273)	1.7	2.4	3.4	18.1	20.1	23.3	81.6	91.5	96.6	30.4	15.3	22.0	22.5	23.2	22.4	22.6	22.8
	0.3	2.2	5.1	17.0	20.3	24.5	70.4	92.4	100.0	574.8	489	20.2	22.4	24.2	20.7	22.4	23.6

-99.00 indicate No data or Invalid data.

KERALA FOREST RESEARCH INSTITUTE, DAILY FOREST METEOROLOGICAL DATA  
 Station 2, Silent Valley NP 1st October 1997 to 31st October 1997

Day	Wind speed			Temperature			Humidity			Rain	Solar	Soil(15cm)			Soil(30cm)		
	m/s			oC			%			mm	MJ/m2	temp oC			temp oC		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Total	Total	Min	Avg	Max	Min	Avg	Max
1 (274)	0.5	2.2	3.7	17.7	19.9	22.9	81.2	92.4	97.8	5.8	17.7	21.7	22.4	23.3	22.3	22.5	22.7
2 (275)	1.0	2.4	4.3	16.5	19.4	23.3	72.0	88.3	96.7	20.6	20.5	22.0	22.9	24.1	22.5	22.7	23.1
3 (276)	0.6	2.0	4.1	17.5	19.7	22.1	85.8	93.7	97.9	0.2	14.7	22.4	23.0	23.4	22.8	22.9	23.1
4 (277)	0.9	2.0	3.8	17.9	20.5	23.3	75.1	91.2	96.8	1.2	15.1	22.1	22.7	23.3	22.6	22.8	22.9
5 (278)	1.3	2.1	3.3	17.7	20.4	24.7	78.0	92.2	98.3	16.0	15.1	22.3	22.8	23.5	22.7	22.8	22.9
6 (279)	0.6	2.1	3.4	17.5	20.0	23.6	75.7	92.9	98.1	3.6	10.8	22.1	22.5	22.9	22.6	22.7	22.9
7 (280)	0.9	1.8	3.5	18.7	20.6	23.6	78.1	92.5	98.6	14.2	13.1	22.0	22.5	23.0	22.5	22.6	22.7
8 (281)	0.8	2.1	4.4	19.2	21.5	23.8	80.9	88.9	95.0	0.0	14.5	22.1	22.7	23.4	22.5	22.6	22.8
9 (282)	0.4	1.7	2.8	18.5	21.6	25.9	70.7	89.1	96.2	0.0	18.4	22.4	23.1	23.9	22.7	22.8	23.0
10 (283)	0.6	1.8	4.1	19.0	21.9	25.7	65.6	86.0	95.3	0.0	16.3	22.8	23.4	23.9	23.0	23.1	23.2
11 (284)	0.8	2.3	4.2	17.8	22.4	26.6	61.6	75.9	91.8	1.0	21.9	22.5	23.3	24.1	22.9	23.1	23.2
12 (285)	1.8	2.5	3.5	20.7	22.7	25.8	59.9	76.4	89.3	1.2	16.9	22.9	23.5	24.0	23.1	23.2	23.3
13 (286)	1.0	2.4	3.9	19.3	21.7	24.6	71.1	83.3	92.2	30.8	14.3	22.9	23.3	23.9	23.1	23.3	23.4
14 (287)	0.7	1.6	3.1	19.0	21.1	23.5	70.9	85.0	94.2	0.6	11.6	22.1	22.6	23.2	22.8	23.0	23.3
15 (288)	0.7	2.0	3.8	18.6	21.3	25.0	69.5	84.6	95.0	0.0	18.6	22.4	22.7	23.0	22.8	22.9	23.0
16 (289)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
17 (290)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
18 (291)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
19 (292)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
20 (293)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
21 (294)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
22 (295)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
23 (296)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
24 (297)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
25 (298)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
26 (299)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
27 (300)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
28 (301)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
29 (302)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
30 (303)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
31 (304)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0

0 4 2 1 4 4 16 5 21 0 26 6 59.9 87.5 98.6 95.2 239 21.7 22.9 24.1 22.3 22.9 23 4

-99.00 indicate No data or Invalid data.

KERALA FOREST RESEARCH INSTITUTE. DAILY FOREST METEOROLOGICAL DATA  
 Station 2, Silent Valley NP 1st November 1997 to 30th November 1997

Day	Wind speed			Temperature			Humidity			Rain	Solar	Soil(15cm)			Soil(30cm)		
	m/s			oC			%			mm	MJ/m2	temp oC			temp oC		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Total	Total	Min	Avg	Max	Min	Avg	Max
1 (305)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
2 (306)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
3 (307)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
4 (308)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
5 (309)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
6 (310)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
7 (311)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
8 (312)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
9 (313)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
10 (314)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
11 (315)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
12 (316)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
13 (317)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
14 (318)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
15 (319)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
16 (320)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
17 (321)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
18 (322)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
19 (323)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
20 (324)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
21 (325)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
22 (326)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
23 (327)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
24 (328)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
25 (329)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
26 (330)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
27 (331)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
28 (332)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
29 (333)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
30 (334)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0

-99.00 indicate No data or Invalid data.

## KERALA FOREST RESEARCH INSTITUTE. OAILY FOREST METEOROLOGICAL DATA

Station 2, Silent Valley NP 1st December 1997 to 31st December 1997

Day	Wind speed			Temperature			Humidity			Rain	Solar	Soil(15cm)			Soil(30cm)		
	m/s			oC			%			mm	MJ/m2	temp oC			temp oC		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Total	Total	Min	Avg	Max	Min	Avg	Max
1 (335)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
2 (336)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
3 (337)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
4 (338)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
5 (339)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
6 (340)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
7 (341)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
8 (342)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
9 (343)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
10 (344)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
11 (345)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
12 (346)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
13 (347)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
14 (348)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
15 (349)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
16 (350)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
17 (351)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
18 (352)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
19 (353)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
20 (354)	1.3	2.7	4.2	20.8	21.8	23.2	84.1	87.6	92.2	0.0	0.1	23.9	24.0	24.0	23.4	23.5	23.6
21 (355)	0.8	2.0	6.6	20.0	21.5	23.4	80.0	86.3	93.3	0.0	14.8	23.2	23.6	24.1	23.5	23.6	23.7
22 (356)	0.5	2.2	4.6	18.3	21.1	23.9	76.8	86.4	94.7	0.0	12.6	22.9	23.4	23.9	23.4	23.6	23.7
23 (357)	0.8	2.4	6.0	18.3	20.9	23.4	73.6	84.1	92.2	0.0	12.6	22.5	23.0	23.5	23.2	23.4	23.6
24 (358)	0.6	2.4	4.6	17.0	20.4	23.3	72.7	82.1	91.6	0.0	15.0	22.1	22.7	23.2	23.0	23.2	23.4
25 (359)	1.0	2.1	5.0	17.6	21.0	24.3	69.0	76.2	84.6	0.0	18.3	21.9	22.6	23.3	22.8	23.0	23.2
26 (360)	0.7	1.4	3.9	18.5	20.9	23.7	70.6	77.7	87.0	0.0	17.9	22.1	22.7	23.3	22.9	23.0	23.1
27 (361)	0.5	1.6	4.1	18.5	20.9	23.1	62.5	72.2	86.1	0.0	22.4	22.0	22.7	23.4	22.9	23.0	23.2
28 (362)	0.7	1.5	3.9	18.2	22.3	23.4	59.9	71.8	86.0	0.0	22.4	22.0	22.7	23.5	22.9	23.1	23.2
29 (363)	0.6	1.9	7.1	17.7	20.9	23.6	68.4	73.9	85.8	0.0	16.6	22.1	22.7	23.2	22.9	23.1	23.2
30 (364)	0.6	1.8	4.2	16.6	20.8	24.6	67.2	74.3	85.8	0.0	21.3	21.9	22.6	23.5	22.8	23.0	23.1
31 (365)	0.7	2.4	4.7	16.7	20.6	24.5	48.4	73.9	88.6	0.0	22.5	22.1	22.9	23.8	22.9	23.1	23.2
	0.5	2.0	7.1	16.6	21.1	24.6	48.4	78.9	94.7	0.0	196	21.9	23.0	24.1	22.8	23.2	23.7

-99.00 indicate No data or Invalid data.



KERALA FOREST RESEARCH INSTITUTE, DAILY FOREST METEOROLOGICAL DATA  
Station 2, Silent Valley NP 1st January 1998 to 31st January 1998

Day	Wind speed			Temperature			Humidity			Rain mm	Solar MJ/m2	Soil(15cm)			Soil(30cm)		
	m/s			oC			%					temp oC			temp oC		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Total	Total	Min	Avg	Max	Min	Avg	Max
1 ( 1)	0.7	1.9	4.1	16.9	20.6	24.4	68.9	77.5	90.5	0.0	18.8	22.3	23.0	23.7	23.0	23.2	23.4
2 ( 2)	0.9	1.5	2.4	19.0	20.9	22.8	65.2	77.5	89.9	0.0	19.2	22.7	23.3	23.8	23.2	23.3	23.4
3 ( 3)	0.8	1.8	3.5	18.8	21.4	23.9	38.0	60.4	80.9	0.0	21.8	22.2	23.0	23.8	23.1	23.3	23.5
4 ( 4)	0.7	1.4	2.7	20.7	22.1	23.9	41.4	53.7	69.4	0.0	22.8	22.5	23.2	24.0	23.2	23.4	23.5
5 ( 5)	0.8	1.3	2.3	16.4	20.1	23.8	60.5	67.9	75.2	0.0	20.5	22.3	23.1	23.8	23.2	23.4	23.6
6 ( 6)	0.7	1.7	3.8	16.0	20.2	23.9	62.9	70.3	78.1	0.0	22.3	22.1	23.0	23.8	23.1	23.3	23.5
7 ( 7)	0.6	1.9	4.0	15.1	20.2	25.4	58.7	68.7	78.9	0.0	22.7	22.1	23.1	23.9	23.0	23.3	23.5
8 ( 8)	0.7	2.0	4.3	16.0	20.2	24.1	63.3	72.8	82.1	0.0	21.7	22.2	23.1	23.9	23.1	23.3	23.5
9 ( 9)	0.7	1.5	3.0	16.8	20.8	24.2	67.3	74.5	86.0	0.0	18.9	22.5	23.3	23.9	23.3	23.4	23.5
10 ( 10)	1.0	1.6	3.7	18.1	21.5	25.5	58.0	68.0	84.0	0.0	22.0	22.5	23.3	24.1	23.2	23.4	23.5
11 ( 11)	0.8	1.7	3.5	16.3	20.5	25.3	56.0	66.0	75.2	0.0	23.0	22.4	23.3	24.1	23.3	23.5	23.6
12 ( 12)	0.8	2.1	4.6	14.8	19.7	24.5	61.7	70.7	83.5	0.0	22.1	22.2	23.2	24.1	23.2	23.5	23.7
13 ( 13)	0.7	2.2	4.1	15.0	20.1	24.5	60.2	75.4	87.8	0.0	21.9	22.4	23.3	24.2	23.3	23.5	23.6
14 ( 14)	0.8	1.8	3.4	15.9	21.6	27.4	32.1	54.3	80.7	0.0	22.5	22.5	23.4	24.2	23.4	23.6	23.7
15 ( 15)	0.7	1.8	4.0	15.9	19.8	24.0	49.8	69.4	81.0	0.0	13.6	22.7	23.4	24.0	23.4	23.6	23.8
16 ( 16)	0.7	2.1	4.1	14.9	20.4	25.5	39.3	61.0	79.7	0.0	23.0	21.9	22.8	23.9	23.0	23.3	23.6
17 ( 17)	0.6	2.1	4.3	15.0	20.0	24.5	53.3	75.2	94.4	0.0	21.1	22.4	23.3	24.2	23.2	23.4	23.5
18 ( 18)	0.6	2.0	4.2	16.1	20.2	25.3	69.8	86.0	96.4	0.0	22.5	22.7	23.6	24.7	23.4	23.6	23.6
19 ( 19)	0.7	1.9	4.1	17.6	20.8	24.7	75.7	89.2	98.2	0.0	18.2	23.5	24.2	24.9	23.8	23.9	24.1
20 ( 20)	0.8	2.1	4.1	16.7	20.7	24.3	77.6	88.9	98.5	0.0	15.5	23.4	24.0	24.7	23.8	24.0	24.2
21 ( 21)	0.7	2.3	4.2	18.0	21.5	25.7	68.3	82.4	94.3	0.0	21.3	23.1	23.9	24.9	23.7	23.9	24.1
22 ( 22)	0.6	2.3	4.2	17.9	21.7	25.4	73.6	84.8	95.7	0.0	17.5	23.6	24.3	25.0	24.0	24.1	24.2
23 ( 23)	0.6	2.3	4.1	18.4	22.3	25.3	67.8	78.6	90.7	0.0	20.5	23.7	24.5	25.1	24.1	24.3	24.4
24 ( 24)	0.9	2.2	3.9	20.3	22.6	25.3	68.0	75.9	84.7	0.0	17.1	23.9	24.5	25.0	24.3	24.4	24.5
25 ( 25)	1.1	1.8	2.8	19.9	22.1	24.1	66.2	73.2	84.6	0.0	20.4	23.8	24.5	25.0	24.3	24.4	24.5
26 ( 26)	0.9	2.1	4.2	18.4	22.0	25.9	57.9	72.6	86.9	0.0	20.1	23.8	24.4	25.1	24.3	24.4	24.6
27 ( 27)	0.8	1.9	3.3	18.2	21.9	25.4	59.7	70.2	84.1	0.0	21.7	23.8	24.5	25.2	24.3	24.5	24.6
28 ( 28)	1.1	1.9	3.6	18.5	21.8	24.2	57.6	70.1	85.8	0.0	18.0	23.9	24.5	25.1	24.4	24.6	24.7
29 ( 29)	0.9	1.4	2.8	19.2	21.9	25.6	40.4	62.2	74.5	0.0	24.6	23.6	24.4	25.2	24.3	24.5	24.6
30 ( 30)	0.8	1.4	1.8	19.5	22.5	26.1	44.0	65.0	78.0	0.0	24.5	23.9	24.7	25.6	24.4	24.6	24.8
31 ( 31)	0.8	1.5	2.6	20.3	22.7	25.4	56.2	68.6	80.6	0.0	22.2	24.3	25.0	25.7	24.7	24.8	25.0
	0.6	1.9	4.6	14.8	21.1	27.4	32.1	72.0	98.5	0.0	642	21.9	23.7	25.7	23.0	23.6	25.0

-99.00 indicate No data or Invalid data.

## KERALA FOREST RESEARCH INSTITUTE. DAILY FOREST METEOROLOGICAL DATA

Station 2. Silent Valley NP 1st February 1998 to 28th February 1998

Day	Wind speed			Temperature			Humidity			Rain mm	Solar MJ/m2	Soil(15cm) temp oC			Soil(30cm) temp oc		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max			Min	Avg	Max	Min	Avg	Max
1 ( 32)	1.0	1.4	2.6	19.8	22.2	24.9	53.6	64.4	75.3	0.0	24.0	24.4	25.2	25.9	24.8	25.0	25.1
2 ( 33)	0.8	1.6	3.8	17.3	22.1	25.9	38.9	56.0	74.3	0.0	24.6	24.4	25.2	25.9	24.9	25.1	25.2
3 ( 34)	0.7	1.5	3.5	15.5	21.9	26.0	34.3	51.5	67.4	0.0	24.3	24.1	25.0	25.7	24.8	25.1	25.3
4 ( 35)	0.7	1.8	3.9	17.1	22.5	27.8	29.1	48.8	69.1	0.0	24.9	24.1	25.1	25.9	24.8	25.0	25.2
5 ( 36)	0.7	2.3	4.0	16.1	22.2	27.8	24.9	52.8	69.3	0.0	24.7	24.3	25.2	26.0	24.9	25.1	25.3
6 ( 37)	0.8	2.3	4.1	15.9	21.1	24.9	41.9	61.8	72.5	0.0	23.4	24.2	25.2	26.0	24.9	25.1	25.4
7 ( 38)	0.7	2.1	4.3	15.3	20.3	25.6	62.1	78.0	94.4	0.0	22.4	24.2	25.1	25.8	24.9	25.1	25.3
8 ( 39)	0.6	2.0	4.0	16.3	21.5	25.9	63.7	72.9	82.9	0.0	22.3	24.2	25.1	25.9	24.9	25.1	25.3
9 ( 40)	1.1	1.5	2.5	19.6	22.5	24.9	61.4	69.1	77.6	0.0	22.0	24.7	25.4	26.0	25.1	25.2	25.3
10 ( 41)	1.1	1.4	2.0	19.6	22.1	24.5	57.2	68.4	81.7	0.0	24.7	24.7	25.4	26.1	25.1	25.3	25.4
11 ( 42)	1.1	1.4	1.7	19.3	21.7	24.2	62.3	71.1	79.4	0.0	22.0	24.8	25.5	26.0	25.2	25.4	25.5
12 ( 43)	1.2	2.3	4.0	17.1	21.4	25.4	64.1	74.7	90.0	0.0	21.3	24.6	25.4	26.0	25.2	25.3	25.5
13 ( 44)	0.8	2.2	4.0	17.4	21.5	25.8	58.8	73.8	92.4	0.0	20.3	24.6	25.3	26.0	25.1	25.3	25.5
14 ( 45)	0.7	2.1	3.8	17.6	21.0	24.3	69.0	78.3	92.8	0.0	18.1	24.6	25.2	25.8	25.1	25.3	25.5
15 ( 46)	0.6	2.0	4.5	17.1	20.3	25.0	69.1	82.8	91.8	0.0	21.1	24.3	25.1	25.8	25.0	25.2	25.4
16 ( 47)	0.7	2.0	4.2	17.2	20.5	24.1	68.7	81.6	94.0	0.0	16.9	24.6	25.2	25.7	25.1	25.2	25.4
17 ( 48)	0.5	2.3	4.4	16.8	20.5	25.9	65.4	80.0	92.9	0.0	21.5	24.2	25.0	25.9	24.9	25.1	25.3
18 ( 49)	0.6	2.3	4.7	17.2	20.3	23.5	72.9	84.7	95.4	0.0	16.8	24.5	25.1	25.8	25.1	25.2	25.4
19 ( 50)	0.5	2.1	4.5	16.3	20.3	26.2	66.3	84.6	96.7	0.0	25.5	24.2	25.1	26.2	24.9	25.1	25.3
20 ( 51)	0.7	2.3	4.2	16.9	20.9	27.0	66.3	87.6	99.3	0.2	25.5	24.7	25.6	26.6	25.2	25.4	25.6
21 ( 52)	0.5	3.3	4.7	18.6	20.9	25.1	72.4	90.1	100.0	0.2	16.9	25.5	26.0	26.5	25.6	25.7	25.8
22 ( 53)	0.6	2.1	4.6	16.7	21.5	27.3	50.7	73.5	91.2	0.0	26.1	24.7	25.6	26.6	25.4	25.6	25.8
23 ( 54)	0.8	2.8	4.3	16.4	20.9	23.9	62.4	80.2	99.8	0.0	17.7	24.9	25.7	26.5	25.5	25.7	25.9
24 ( 55)	0.7	2.9	4.2	19.0	21.7	25.5	73.5	90.5	100.0	0.0	10.8	25.1	25.5	26.0	25.4	25.6	25.7
25 ( 56)	0.5	2.7	4.5	17.8	22.4	25.5	74.6	83.1	99.2	0.0	13.7	24.7	25.3	25.8	25.2	25.4	25.6
26 ( 57)	0.6	2.3	4.5	17.5	21.6	26.4	72.0	89.3	100.0	0.2	15.2	24.6	25.2	25.7	25.2	25.3	25.5
27 ( 58)	0.6	2.1	4.6	18.2	21.7	26.0	73.7	88.1	97.5	0.0	16.7	24.5	25.1	25.8	25.1	25.2	25.4
28 ( 59)	0.7	2.1	4.4	19.4	22.0	25.7	69.5	85.5	95.2	0.0	14.2	24.7	25.2	25.7	25.1	25.3	25.4
	0.5	2.1	4.7	15.3	21.4	27.8	24.9	75.1	100.0	0.6	577	24.1	25.3	26.6	24.8	25.3	25.9

-99.00 indicate No data or Invalid data.

KERALA FOREST RESEARCH INSTITUTE. DAILY FOREST METEOROLOGICAL DATA  
 Station 2. Silent Valley NP 1st March 1998 to 31st March 1998

Day	Wind speed			Temperature			Humidity			Rain	Solar	Soil(15cm)			Soil(30cm)		
	m/s			oC			%			mm	MJ/m2	temp oC			temp oC		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Total	Total	Min	Avg	Max	Min	Avg	Max
1 ( 60)	0.6	1.9	4.1	18.5	22.4	27.0	61.4	81.7	96.8	0.0	19.3	24.4	25.1	25.9	25.0	25.2	25.3
2 ( 61)	0.9	2.8	4.3	18.6	22.8	26.8	63.4	77.9	96.7	0.0	21.4	24.7	25.5	26.4	25.2	25.3	25.5
3 ( 62)	0.9	2.5	3.9	18.4	23.3	27.8	39.6	63.9	83.9	0.0	23.4	25.1	25.9	26.6	25.5	25.6	25.7
4 ( 63)	0.9	1.9	3.1	18.2	23.9	29.0	30.9	54.8	80.9	0.0	26.8	25.1	26.0	27.1	25.6	25.8	25.9
5 ( 64)	0.7	2.5	4.1	17.8	23.4	28.0	44.6	61.4	76.2	0.0	26.5	25.7	26.6	27.5	25.9	26.1	26.3
6 ( 65)	0.5	2.5	4.5	17.4	22.1	26.9	61.7	74.8	88.3	0.0	25.0	26.0	26.9	27.7	26.2	26.4	26.5
7 ( 66)	0.6	2.0	4.3	17.6	22.3	28.4	47.0	72.4	89.3	0.0	26.1	25.9	26.9	27.9	26.3	26.5	26.7
8 ( 67)	0.6	2.1	4.6	19.2	21.7	26.5	58.2	75.1	87.2	0.0	23.1	26.3	27.1	27.8	26.5	26.7	26.9
9 ( 68)	0.5	1.9	4.3	18.4	22.7	29.1	36.1	60.5	75.7	0.0	25.1	25.9	26.9	27.9	26.4	26.6	26.9
10 ( 69)	0.8	2.2	4.1	19.6	23.3	28.3	53.8	71.4	88.8	0.0	23.4	26.3	27.2	28.1	26.6	26.8	26.9
11 ( 70)	0.6	2.0	4.6	18.2	21.9	27.2	51.8	74.0	91.7	0.0	22.7	26.5	27.3	28.1	26.7	26.9	27.1
12 ( 71)	0.6	2.0	4.1	18.9	22.7	28.0	57.3	78.8	92.7	0.0	22.4	26.5	27.3	28.2	26.0	27.0	27.2
13 ( 72)	0.7	2.2	4.5	18.6	22.5	26.6	56.7	72.7	92.9	0.0	25.7	26.4	27.3	28.2	26.8	27.0	27.2
14 ( 73)	0.5	2.1	4.5	18.0	21.4	26.1	67.1	82.2	97.1	0.0	22.8	26.5	27.3	28.1	26.9	27.1	27.3
15 ( 74)	0.6	2.2	4.1	17.7	22.0	27.1	64.9	80.3	93.7	0.0	20.4	26.3	27.1	27.8	26.8	27.0	27.2
16 ( 75)	1.1	1.7	2.8	20.0	23.7	28.0	31.8	60.6	90.1	0.0	27.5	26.4	27.2	28.2	26.8	26.9	27.1
17 ( 76)	1.1	2.0	3.3	18.3	24.4	30.2	19.8	45.7	74.0	0.0	27.8	26.6	27.5	28.5	27.0	27.2	27.3
18 ( 77)	0.7	2.3	4.1	16.6	23.5	29.3	29.7	53.7	82.9	0.0	26.2	26.7	27.7	28.6	27.1	27.3	27.5
19 ( 78)	0.7	2.5	4.0	18.3	23.9	27.7	35.8	53.4	69.3	0.0	25.3	26.9	27.9	28.8	27.2	27.4	27.6
20 ( 79)	0.9	2.3	5.3	18.6	25.2	30.6	26.6	50.7	75.0	0.0	22.6	27.1	28.1	29.0	27.4	27.6	27.7
21 ( 80)	0.9	2.5	5.4	19.0	23.7	28.7	42.2	70.1	98.9	0.0	26.2	27.5	28.4	29.3	27.6	27.8	27.9
22 ( 81)	0.5	2.2	4.4	18.1	23.0	28.8	46.4	75.7	99.5	0.0	25.3	27.5	28.5	29.4	27.7	27.9	28.1
23 ( 82)	0.8	2.3	4.5	19.0	23.3	28.8	49.2	75.1	96.3	0.0	26.1	27.5	28.5	29.5	27.7	28.0	28.1
24 ( 83)	1.0	2.2	4.1	18.4	22.5	27.8	67.4	86.0	97.0	0.0	20.7	27.7	28.6	29.3	27.9	28.1	28.3
25 ( 84)	0.9	2.2	3.6	19.6	22.9	28.6	62.6	85.2	98.5	0.0	25.4	27.5	28.4	29.4	27.8	28.0	28.1
26 ( 85)	0.7	2.0	3.7	20.2	23.3	27.2	71.5	86.1	99.2	0.0	20.4	27.8	28.6	29.3	27.9	28.1	28.3
27 ( 86)	0.8	2.2	5.5	20.3	23.9	28.8	64.3	86.9	98.6	0.0	14.9	27.8	28.4	29.0	27.9	28.1	28.3
28 ( 87)	0.5	2.2	4.3	19.6	23.3	26.7	69.2	85.7	99.1	0.0	13.5	27.4	27.9	28.6	27.6	27.8	28.1
29 ( 88)	1.0	1.9	4.2	18.8	22.8	27.5	66.4	81.8	94.1	0.0	13.7	26.8	27.3	28.0	27.3	27.5	27.8
30 ( 89)	0.9	2.2	3.5	19.5	22.5	27.1	68.2	86.1	98.3	3.6	14.8	26.4	27.0	27.5	27.0	27.2	27.4
31 ( 90)	0.6	2.1	4.9	20.0	22.9	26.2	76.8	89.4	99.0	16.6	15.6	26.0	26.6	27.1	26.7	26.9	27.1
	0.5	2.2	5.5	16.6	23.0	30.6	19.8	72.7	99.5	20.2	700	24.4	27.3	29.5	25.0	27.0	28.3

-99.00 indicate No data or Invalid data.

KERALA FOREST RESEARCH INSTITUTE. DAILY FOREST METEOROLOGICAL DATA  
 Station 2. Silent Valley NP 1st April 1998 to 30th April 1998

Day	Wind speed			Temperature			Humidity			Rain mm	Solar MJ/m2	Soil(15cm) temp oC			Soil(30cm) temp oC		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max			Min	Avg	Max	Min	Avg	Max
1 ( 91)	0.8	1.8	3.2	19.8	22.6	25.6	78.8	89.8	99.5	0.0	13.5	25.1	25.7	26.4	26.1	26.4	26.8
2 ( 92)	1.0	2.0	3.0	20.2	23.0	27.2	69.8	86.8	98.3	1.0	14.3	25.0	25.5	26.0	25.9	26.0	26.3
3 ( 93)	0.9	1.8	3.8	20.1	22.3	25.8	74.9	90.6	99.0	0.8	10.6	24.9	25.2	25.8	25.7	25.8	26.1
4 ( 94)	1.0	2.3	4.4	19.6	24.8	30.4	29.4	64.1	98.6	0.0	26.9	24.2	25.2	26.5	25.3	25.5	25.9
5 ( 95)	1.0	2.4	4.8	19.3	25.0	29.6	35.0	60.9	88.3	0.0	28.7	24.8	25.9	27.2	25.7	25.9	26.3
6 ( 96)	0.8	1.8	2.5	20.6	25.1	31.9	24.7	59.6	82.6	0.0	28.6	25.5	26.7	28.1	26.2	26.4	26.8
7 ( 97)	D.9	2.0	3.7	18.8	23.7	28.9	60.5	80.2	98.1	0.0	20.2	26.1	27.1	28.0	26.6	26.8	27.0
8 ( 98)	0.9	2.0	3.6	19.6	22.9	27.1	71.8	86.5	98.2	0.0	17.4	26.3	27.1	27.7	26.7	26.9	27.1
9 ( 99)	0.8	2.2	4.1	19.9	23.9	28.3	59.2	76.2	95.4	0.0	16.9	25.8	26.6	27.4	26.5	26.8	27.1
10 (100)	1.1	2.0	3.5	19.4	23.0	26.6	73.5	88.2	95.7	0.0	15.2	25.9	26.6	27.2	26.5	26.7	26.9
11 (101)	0.6	1.9	3.8	19.8	23.5	28.0	69.4	89.1	100.0	0.0	14.3	25.9	26.5	27.1	26.4	26.6	26.8
12 (102)	0.8	1.7	3.3	19.9	23.4	27.8	70.7	89.9	100.0	0.0	13.1	25.9	26.5	27.0	26.4	26.5	26.7
13 (103)	1.0	2.1	3.6	19.7	23.7	29.4	63.3	87.5	99.6	0.0	19.8	25.8	26.7	27.9	26.3	26.5	26.8
14 (104)	0.9	1.9	3.3	20.8	23.9	28.3	71.0	87.7	97.7	0.0	14.0	26.5	27.1	27.6	26.7	26.8	27.0
15 (105)	0.6	2.0	2.9	19.5	23.3	28.3	68.8	87.0	97.8	0.0	14.1	26.2	26.9	27.6	26.6	26.8	27.0
16 (106)	0.9	2.0	3.3	20.7	23.7	28.8	68.1	88.2	97.7	0.0	17.8	26.5	27.3	28.1	26.8	26.9	27.1
17 (107)	1.0	2.2	4.2	20.7	23.6	27.6	67.8	89.4	99.0	0.0	21.0	26.8	27.7	28.7	27.0	27.2	27.5
18 (108)	1.0	2.4	4.1	20.5	23.7	29.1	62.0	84.2	97.3	0.0	25.5	27.0	28.2	29.7	27.2	27.5	27.9
19 (109)	0.8	1.9	3.0	21.0	24.2	29.3	61.9	84.6	99.0	0.0	21.4	27.9	28.8	29.7	27.8	27.9	28.2
20 (110)	0.7	2.2	4.2	20.9	24.5	29.6	66.3	85.8	99.5	0.0	24.3	28.0	29.1	30.5	27.9	28.2	28.5
21 (111)	0.3	2.1	4.0	22.2	24.9	30.0	62.8	85.6	99.7	0.0	22.5	28.8	29.8	31.0	28.0	28.6	28.9
22 (112)	1.1	2.1	3.6	20.4	24.0	28.2	74.9	87.4	99.3	0.0	17.1	28.8	29.6	30.5	28.7	28.9	29.1
23 (113)	1.0	2.2	4.6	20.9	23.9	27.7	73.5	88.7	99.2	0.0	16.7	28.5	29.2	29.7	28.5	28.7	28.9
24 (114)	0.6	2.5	3.8	20.1	24.4	29.9	57.9	77.6	95.3	0.0	26.2	27.7	29.0	30.5	28.2	28.4	28.7
25 (115)	1.0	3.1	5.1	20.5	24.0	28.7	61.3	78.5	97.2	17.6	22.7	28.5	29.5	30.7	28.5	28.8	29.0
26 (116)	1.4	2.3	3.9	20.5	23.5	27.5	68.9	81.0	95.5	0.0	22.3	27.2	28.2	29.0	28.0	28.4	29.0
27 (117)	1.3	2.7	4.0	19.9	22.3	26.0	71.9	89.0	98.5	4.8	17.6	26.8	27.4	28.3	27.6	27.8	28.3
28 (118)	0.9	2.1	3.6	19.8	22.7	26.0	72.8	87.4	99.4	0.0	17.4	25.7	26.5	27.1	26.8	27.1	27.6
29 (119)	1.1	2.0	3.1	19.9	23.2	28.2	67.3	90.2	99.7	0.6	16.3	25.7	26.4	27.1	26.6	26.8	27.0
30 (120)	1.0	2.3	4.7	20.1	22.8	27.5	72.3	90.1	100.0	20.8	19.4	25.1	26.4	27.2	26.5	26.7	26.9
	0.3	2.1	5.1	18.8	23.7	31.9	24.7	83.7	100.0	45.6	576	24.2	27.3	31.0	25.3	27.1	29.1

-99.00 indicate No data or Invalid data.

KERALA FOREST RESEARCH INSTITUTE. DAILY FOREST METEOROLOGICAL DATA  
Station 2, Silent Valley NP 1st May 1998 to 31st May 1998

Day	Wind speed			Temperature			Humidity			Rain mm	Solar MJ/m2	Soil(15cm)			Soil(30cm)		
	m/s			oC			%					temp oC			temp oC		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Total	Total	Min	Avg	Max	Min	Avg	Max
1 (121)	1.2	2.3	3.3	19.4	22.6	27.8	67.0	89.3	98.6	0.6	17.0	25.2	26.0	26.6	26.2	26.4	26.7
2 (122)	0.8	1.9	3.4	20.4	23.7	27.6	72.4	89.5	98.6	0.2	16.0	25.3	26.0	26.6	26.1	26.2	26.4
3 (123)	0.7	2.0	5.8	21.2	24.3	27.8	72.5	87.2	99.9	0.0	14.3	25.7	26.2	26.6	26.2	26.3	26.4
4 (124)	0.6	2.1	3.4	19.4	23.1	28.9	63.7	89.9	100.0	0.0	18.5	25.3	26.1	26.8	26.0	26.2	26.4
5 (125)	0.4	1.9	3.6	21.4	24.0	28.2	73.2	92.1	100.0	0.0	17.9	25.8	26.5	27.2	26.2	26.4	26.6
6 (126)	1.3	2.2	4.7	21.5	24.0	28.1	74.8	91.8	98.7	0.0	12.5	26.0	26.6	27.0	26.4	26.6	26.7
7 (127)	0.2	2.0	3.6	21.5	25.5	30.6	52.3	79.9	98.0	1.0	28.8	25.8	26.6	27.6	26.3	26.5	26.8
8 (128)	1.0	2.1	3.2	20.3	23.8	27.7	65.3	81.0	96.0	0.0	16.8	26.2	26.8	27.4	26.7	26.8	27.0
9 (129)	1.2	2.5	4.7	19.9	23.1	29.0	65.3	86.6	97.9	0.2	15.6	25.8	26.4	26.9	26.5	26.6	26.9
10 (130)	0.8	1.7	2.6	21.0	23.3	26.5	77.4	91.4	97.8	0.0	13.3	25.8	26.2	26.6	26.3	26.5	26.7
11 (131)	0.9	2.5	4.7	20.8	22.6	26.1	71.3	87.3	99.6	12.8	13.0	25.6	26.0	26.4	26.2	26.3	26.5
12 (132)	0.7	1.9	3.4	20.1	22.9	25.1	80.6	91.8	97.5	0.0	15.2	25.0	25.5	26.0	25.8	26.0	26.3
13 (133)	1.3	2.2	3.6	20.8	22.8	25.4	80.9	90.3	100.0	7.6	12.8	25.2	25.6	25.9	25.8	25.9	26.0
14 (134)	0.5	2.2	4.1	20.1	22.7	25.5	74.4	87.6	97.2	13.2	12.6	24.7	25.2	25.6	25.5	25.7	25.9
15 (135)	0.6	1.6	3.4	20.4	21.4	23.5	90.4	96.3	100.0	46.0	8.0	23.8	24.7	25.1	24.8	25.3	25.6
16 (136)	0.3	1.9	4.1	19.2	21.2	25.4	77.9	94.4	100.0	14.6	13.0	23.7	24.0	24.6	24.6	24.7	24.8
17 (137)	1.7	2.5	4.9	20.9	23.0	26.2	74.3	88.7	99.6	0.2	16.7	23.8	24.4	25.2	24.6	24.7	25.0
18 (138)	1.7	3.0	4.5	21.8	23.4	26.4	79.3	92.0	99.1	0.0	19.1	24.6	25.2	25.9	25.0	25.1	25.4
19 (139)	1.6	2.8	3.6	21.9	23.2	25.8	71.8	88.3	99.3	0.0	18.2	25.0	25.5	26.0	25.3	25.4	25.6
20 (140)	1.7	2.8	4.6	20.8	23.2	26.0	69.3	84.0	100.0	0.2	19.7	24.7	25.3	25.9	25.3	25.5	25.6
21 (141)	0.9	2.4	3.5	20.4	23.1	25.9	78.2	91.6	100.0	0.0	19.6	25.0	25.5	26.0	25.4	25.5	25.7
22 (142)	0.8	2.3	3.1	21.6	23.4	27.3	73.2	92.2	100.0	0.2	22.1	25.4	26.0	26.7	25.6	25.7	26.0
23 (143)	0.9	2.8	4.0	20.3	23.3	27.1	69.5	87.4	100.0	0.2	22.3	25.4	26.1	26.7	25.8	26.0	26.1
24 (144)	0.8	2.3	3.3	21.2	23.3	26.4	73.2	93.5	100.0	0.8	17.0	25.8	26.3	26.6	26.0	26.1	26.2
25 (145)	1.3	2.0	3.0	21.8	23.2	25.5	85.1	94.9	99.7	0.6	14.4	25.8	26.1	26.5	26.0	26.1	26.2
26 (146)	1.4	2.3	3.6	20.5	22.7	25.7	81.7	92.7	98.6	0.0	14.6	25.4	25.9	26.2	25.9	26.0	26.2
27 (147)	1.4	2.3	4.1	21.0	23.2	25.8	75.7	89.0	96.1	0.0	18.7	25.2	25.8	26.3	25.8	25.9	26.0
28 (148)	1.5	2.7	4.0	21.7	23.7	26.5	78.2	90.6	99.0	0.2	19.0	25.4	26.0	26.6	25.8	26.0	26.2
29 (149)	1.8	2.8	4.3	21.4	24.2	28.0	65.2	82.0	93.6	0.0	25.9	25.6	26.3	27.2	26.0	26.2	26.4
30 (150)	0.7	2.4	4.0	20.1	23.5	26.9	50.1	81.1	99.7	0.0	24.4	25.7	26.5	27.3	26.2	26.4	26.6
31 (151)	1.0	2.2	3.5	19.9	23.7	27.9	74.8	89.5	100.0	0.0	22.3	26.1	26.8	27.5	26.5	26.6	26.8
	0.2	2.3	5.8	19.2	23.3	30.6	50.1	89.2	100.0	98.6	539	23.7	25.9	27.6	24.6	26.0	27.0

-99.00 indicate No data or Invalid data.

KERALA FOREST RESEARCH INSTITUTE, DAILY FOREST METEOROLOGICAL DATA  
Station 2, Silent Valley NP 1st June 1998 to 30th June 1998

Day	Wind speed			Temperature			Humidity			Rain mm	Solar MJ/m2	Soil(15cm)			Soil(30cm)		
	m/s			oC			%					temp oC			temp oC		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Total	Total	Min	Avg	Max	Min	Avg	Max
1 (152)	1.3	2.6	4.4	19.7	23.2	26.5	84.5	91.7	99.3	21.4	14.9	25.8	26.8	27.3	26.6	26.8	26.9
2 (153)	0.3	1.7	3.5	20.4	22.1	24.7	84.8	93.7	100.0	5.6	11.1	25.4	25.6	25.9	26.0	26.2	26.5
3 (154)	0.6	1.6	3.4	20.1	21.9	24.1	82.0	92.9	99.3	0.0	13.7	25.0	25.5	25.7	25.8	25.9	26.1
4 (155)	0.7	1.5	3.4	20.8	22.2	24.5	81.0	92.9	100.0	6.2	16.3	24.9	25.4	25.9	25.6	25.7	25.9
5 (156)	0.9	2.2	3.9	19.4	21.9	24.3	82.1	93.5	100.0	1.4	15.1	25.0	25.4	25.7	25.6	25.7	25.8
6 (157)	1.1	2.2	4.4	19.2	21.3	24.9	76.6	94.9	100.0	71.4	19.0	24.0	24.6	25.5	24.9	25.3	25.7
7 (158)	0.7	2.3	4.3	19.5	21.7	25.1	78.8	92.8	100.0	0.6	18.8	23.8	24.3	25.0	24.7	24.8	25.0
8 (159)	1.8	2.8	3.7	20.8	22.9	26.4	72.7	88.9	100.0	1.0	20.9	24.3	24.8	25.5	24.9	25.0	25.2
9 (160)	2.2	3.2	4.3	20.9	21.8	23.3	89.2	95.9	100.0	7.4	10.6	24.5	24.8	25.2	25.0	25.1	25.2
10 (161)	2.4	3.2	4.4	20.1	21.2	22.5	89.8	96.1	100.0	6.8	9.8	24.1	24.4	24.7	24.8	24.9	25.0
11 (162)	2.1	3.0	4.6	19.8	20.7	22.1	87.5	94.1	99.3	17.0	7.5	23.5	23.7	24.2	24.1	24.4	24.7
12 (163)	2.4	3.4	6.1	19.2	20.7	22.0	82.7	92.5	98.9	12.2	8.4	23.1	23.3	23.5	23.9	24.0	24.2
13 (164)	2.0	3.1	4.3	19.9	21.0	22.2	89.4	95.8	99.8	8.2	10.6	22.9	23.1	23.3	23.6	23.7	23.8
14 (165)	2.0	2.6	4.0	20.2	21.3	23.8	85.1	94.5	100.0	0.8	13.0	23.0	23.3	23.7	23.7	23.7	23.8
15 (166)	1.0	2.3	3.6	20.0	21.0	22.6	86.2	92.5	98.2	4.0	13.2	23.1	23.3	23.5	23.7	23.8	23.8
16 (167)	1.0	2.3	3.5	19.0	20.8	22.5	89.0	96.2	99.6	22.0	8.7	22.9	23.1	23.4	23.4	23.6	23.8
17 (168)	2.3	3.5	6.1	18.7	19.8	20.8	94.2	99.5	100.0	56.6	4.4	21.9	22.6	23.1	22.5	23.2	23.5
18 (169)	1.2	2.9	5.3	18.6	20.5	23.0	88.1	96.7	100.0	44.4	13.3	21.7	22.1	22.6	22.5	22.6	22.8
19 (170)	1.8	2.8	4.0	19.1	20.4	22.8	86.7	97.3	100.0	21.2	9.8	21.7	22.0	22.4	22.4	22.4	22.5
20 (171)	2.6	3.8	5.0	19.2	20.4	21.6	83.9	98.0	100.0	52.8	6.7	21.4	21.7	22.2	22.0	22.2	22.5
21 (172)	2.5	3.5	4.5	19.9	20.7	21.8	93.7	97.5	100.0	23.8	7.6	21.5	21.6	21.9	21.9	22.0	22.0
22 (173)	2.8	4.4	6.8	20.0	20.7	21.3	98.2	99.8	100.0	35.6	6.3	21.6	21.7	21.8	21.9	22.0	22.1
23 (174)	3.0	4.3	5.4	18.4	19.8	21.1	82.6	96.1	100.0	41.4	7.4	21.2	21.4	21.7	21.6	21.8	22.0
24 (175)	2.7	4.5	6.3	18.0	20.0	21.9	80.5	94.0	100.0	18.4	9.2	20.9	21.1	21.3	21.5	21.5	21.6
25 (176)	3.3	4.8	6.9	18.6	19.8	20.4	94.5	99.5	100.0	101.0	4.5	20.5	20.8	21.0	20.8	21.1	21.5
26 (177)	3.7	5.2	7.5	19.2	20.1	21.3	88.8	99.2	100.0	28.0	6.9	20.4	20.6	20.8	20.7	20.8	20.9
27 (178)	3.6	6.2	8.1	19.9	20.5	20.9	100.0	100.0	100.0	109.6	3.0	20.7	20.8	21.0	20.8	20.9	20.9
28 (179)	4.0	6.4	8.8	19.5	20.1	20.6	100.0	100.0	100.0	126.0	2.2	20.5	20.7	20.9	20.6	20.7	20.9
29 (180)	4.2	6.1	8.4	19.0	19.9	20.4	100.0	100.0	100.0	120.0	1.8	20.2	20.3	20.5	20.3	20.4	20.6
30 (181)	5.4	7.0	9.5	19.0	20.1	20.7	100.0	100.0	100.0	131.6	1.7	20.1	20.2	20.3	20.2	20.2	20.3
	0.3	3.5	9.5	18.0	20.9	26.5	72.7	95.9	100.0	1096.4	296	20.1	23.0	27.3	20.2	23.3	26.9

-99.00 indicate No data or Invalid data.

KERALA FOREST RESEARCH INSTITUTE. DAILY FOREST METEOROLOGICAL DATA  
Station 2, Silent Valley NP 1st July 1998 to 31st July 1998

Day	Wind speed			Temperature			Humidity			Rain	Solar	Soil(15cm)			Soil(30cm)		
	m/s			oC			%			mm	MJ/m2	temp oC			temp oC		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Total	Total	Min	Avg	Max	Min	Avg	Max
1 (182)	4.3	5.9	8.3	18.6	19.7	20.5	100.0	100.0	100.0	102.6	2.3	20.0	20.1	20.2	20.1	20.1	20.3
2 (183)	4.6	6.2	8.6	19.5	20.1	20.8	100.0	100.0	100.0	52.6	3.6	19.9	20.1	20.3	20.0	20.1	20.2
3 (184)	2.5	4.9	7.1	19.1	19.8	20.2	100.0	100.0	100.0	109.6	4.1	20.0	20.2	20.3	20.1	20.1	20.3
4 (185)	2.2	3.9	6.3	18.8	19.6	21.0	94.1	99.6	100.0	96.2	7.3	19.8	20.0	20.3	20.0	20.1	20.3
5 (186)	2.5	3.7	6.0	18.9	19.7	20.5	97.6	99.6	100.0	33.2	7.0	20.1	20.3	20.4	20.2	20.2	20.3
6 (187)	3.3	4.2	5.8	18.5	20.0	21.2	86.3	95.7	100.0	34.8	9.8	19.9	20.2	20.5	20.1	20.2	20.3
7 (188)	3.1	3.9	5.1	19.2	20.2	21.2	90.4	95.8	100.0	6.0	10.7	20.1	20.4	20.8	20.2	20.3	20.4
8 (189)	3.3	3.9	4.9	19.4	20.0	21.4	91.2	97.0	100.0	8.2	8.5	20.3	20.5	20.7	20.4	20.4	20.5
9 (190)	3.0	4.1	5.3	19.4	19.8	20.4	96.6	99.6	100.0	44.8	2.9	20.3	20.4	20.6	20.4	20.5	20.5
10 (191)	2.8	3.7	4.5	19.2	20.1	21.1	99.1	100.0	100.0	27.0	4.6	20.1	20.3	20.6	20.3	20.3	20.4
11 (192)	2.5	3.6	4.7	19.4	20.1	20.9	100.0	100.0	100.0	122.0	3.5	20.2	20.4	20.7	20.3	20.4	20.5
12 (193)	2.1	3.1	4.6	20.1	20.6	21.4	99.0	100.0	100.0	80.6	5.2	20.4	20.6	20.8	20.4	20.5	20.6
13 (194)	0.8	2.8	6.0	19.2	20.8	25.1	71.6	96.4	100.0	1.6	10.7	20.7	20.9	21.3	20.6	20.7	20.8
14 (195)	0.8	2.3	3.9	19.3	21.3	24.0	87.9	96.0	100.0	29.4	21.1	20.9	21.6	22.5	20.8	20.9	21.3
15 (196)	1.0	2.6	3.7	18.9	21.0	23.8	72.7	94.9	100.0	16.4	18.3	21.3	21.8	22.5	21.4	21.6	22.1
16 (197)	1.2	2.1	3.8	19.2	21.3	23.5	82.7	94.4	100.0	6.0	19.4	21.8	22.3	22.9	21.6	21.7	22.0
17 (198)	0.8	1.9	3.1	19.6	20.8	22.9	88.1	98.2	100.0	8.4	13.2	22.2	22.6	23.0	22.0	22.0	22.2
18 (199)	0.9	1.9	3.1	19.1	20.9	23.5	89.2	97.9	100.0	3.4	14.7	22.1	22.6	23.0	22.0	22.1	22.2
19 (200)	0.4	1.9	3.2	18.7	19.9	21.5	96.8	99.8	100.0	38.0	8.9	22.2	22.5	22.8	22.2	22.3	22.4
20 (201)	0.5	2.3	3.8	18.6	19.6	21.8	88.7	98.3	100.0	2.4	9.3	21.8	21.9	22.1	21.9	22.1	22.3
21 (202)	1.6	2.5	3.8	18.9	20.0	22.2	92.3	98.7	100.0	5.4	9.8	21.5	21.8	22.0	21.8	21.9	22.0
22 (203)	1.5	2.5	3.4	19.1	20.5	23.3	83.4	96.8	100.0	21.6	14.0	21.5	22.0	22.6	21.8	21.9	22.1
23 (204)	1.1	2.3	4.1	19.2	19.9	21.5	93.8	98.8	100.0	5.6	9.9	21.8	22.1	22.3	21.9	22.0	22.1
24 (205)	1.1	2.0	3.4	18.8	19.9	22.2	89.2	96.9	100.0	35.2	9.3	21.5	21.8	22.0	21.8	21.9	22.0
25 (206)	2.0	3.3	4.5	18.0	19.2	21.5	89.7	98.2	100.0	57.8	14.4	20.5	21.1	21.6	21.2	21.4	21.8
26 (207)	3.0	3.7	5.6	18.5	19.8	20.6	86.9	94.3	100.0	6.6	9.8	20.8	21.0	21.3	21.0	21.3	21.5
27 (208)	2.7	3.3	3.8	19.1	19.7	20.2	95.7	99.4	100.0	4.8	6.5	20.8	21.0	21.1	21.2	21.2	21.3
28 (209)	3.2	4.6	7.0	19.4	19.7	20.0	100.0	100.0	100.0	76.8	3.1	20.4	20.7	21.1	20.6	21.0	21.2
29 (210)	4.8	6.2	8.1	19.5	19.9	20.4	100.0	100.0	100.0	81.4	4.0	20.2	20.4	20.5	20.3	20.5	20.7
30 (211)	3.0	4.3	7.6	18.9	19.7	20.4	100.0	100.0	100.0	94.8	4.4	20.1	20.3	20.5	20.3	20.4	20.5
31 (212)	1.6	3.4	5.8	19.4	20.5	23.1	88.9	98.8	100.0	74.4	13.0	20.2	20.7	21.6	20.3	20.5	20.9
	0.4	3.5	8.6	18.0	20.1	25.1	71.6	98.2	100.0	1287.6	283	19.8	21.1	23.0	20.0	21.0	22.4

-99.00 indicate No data or Invalid data.

KERALA FOREST RESEARCH INSTITUTE. DAILY FOREST METEOROLOGICAL DATA  
 Station 2. Silent Valley NP 1st August 1998 to 31st August 1998

Day	Wind speed			Temperature			Humidity			Rain mm	Solar MJ/m2	Soil(15cm) temp oC			Soil(30cm) temp oC		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max			Min	Avg	Max	Min	Avg	Max
1 (213)	0.7	2.3	3.8	20.0	21.0	23.6	88.6	98.1	100.0	34.6	13.7	21.1	21.5	22.3	20.9	21.1	21.5
2 (214)	0.1	1.8	3.1	19.9	20.9	23.6	90.6	98.5	100.0	67.0	10.1	21.4	21.6	22.1	21.3	21.5	21.9
3 (215)	0.6	2.3	3.6	19.1	21.0	24.0	91.5	98.1	100.0	38.8	16.3	21.3	21.9	23.2	21.4	21.7	22.4
4 (216)	1.5	2.3	3.1	19.8	20.7	23.4	89.2	98.6	100.0	14.8	9.4	22.0	22.4	22.8	21.9	22.0	22.2
5 (217)	1.4	2.4	4.6	19.4	20.3	22.2	92.5	99.3	100.0	14.2	9.6	22.0	22.3	22.5	22.0	22.1	22.2
6 (218)	1.3	2.3	3.4	18.7	20.1	22.4	89.4	98.6	100.0	1.2	10.4	21.8	22.0	22.2	21.9	21.9	22.1
7 (219)	1.6	2.7	4.5	19.3	20.0	22.0	92.8	98.9	100.0	12.0	8.3	21.7	21.9	22.1	21.8	21.9	21.9
8 (220)	1.5	2.7	3.8	19.5	19.8	20.3	100.0	100.0	100.0	20.2	4.2	21.5	21.6	21.8	21.6	21.7	21.9
9 (221)	2.4	3.6	4.5	19.5	20.0	20.6	100.0	100.0	100.0	40.6	5.5	21.1	21.3	21.4	21.3	21.4	21.6
10 (222)	3.0	3.9	4.7	19.5	19.9	20.2	100.0	100.0	100.0	56.0	4.4	20.8	21.0	21.3	21.1	21.2	21.4
11 (223)	2.2	3.1	4.8	19.0	19.9	21.0	99.5	100.0	100.0	28.0	6.7	20.8	21.0	21.2	21.0	21.1	21.1
12 (224)	1.8	3.2	4.6	19.6	20.5	22.4	90.7	98.1	100.0	20.2	15.6	20.8	21.2	21.8	21.0	21.1	21.3
13 (225)	1.7	3.0	5.0	18.8	20.4	22.5	90.6	97.7	100.0	0.8	12.2	21.3	21.5	21.9	21.3	21.4	21.5
14 (226)	0.8	1.9	2.8	19.0	20.9	23.8	87.6	95.6	100.0	1.8	16.3	21.3	21.8	22.3	21.5	21.5	21.7
15 (227)	0.5	1.3	2.4	20.0	21.2	22.9	97.1	99.6	100.0	1.6	8.9	21.8	22.1	22.3	21.7	21.8	21.9
16 (228)	0.5	1.9	4.3	19.4	20.5	22.7	94.6	98.7	100.0	22.2	12.0	22.0	22.3	22.8	21.9	22.0	22.2
17 (229)	1.1	2.2	3.8	18.9	20.3	22.2	86.0	97.0	100.0	2.2	14.8	21.8	22.2	22.6	22.0	22.1	22.2
18 (230)	1.3	2.0	3.0	19.3	20.7	24.1	85.0	96.1	100.0	17.0	14.9	21.9	22.2	22.6	22.0	22.1	22.2
19 (231)	0.5	1.5	2.7	18.8	20.0	21.7	97.0	99.8	100.0	14.4	8.7	21.9	22.2	22.4	22.0	22.1	22.2
20 (232)	0.9	2.0	4.2	19.2	19.6	21.3	97.7	99.9	100.0	6.6	7.0	21.8	21.9	22.1	22.0	22.0	22.1
21 (233)	1.4	2.0	3.2	19.0	19.4	20.1	98.6	99.9	100.0	18.6	4.3	21.5	21.6	21.8	21.7	21.8	22.0
22 (234)	0.4	1.2	2.3	18.8	19.9	21.7	98.3	99.9	100.0	3.4	7.2	21.3	21.5	21.8	21.6	21.7	21.7
23 (235)	0.3	1.7	4.8	19.0	20.4	22.3	95.2	99.3	100.0	60.4	10.3	21.5	21.8	22.2	21.7	21.8	22.0
24 (236)	0.7	2.2	4.5	19.4	20.0	21.9	98.3	99.9	100.0	48.2	6.9	21.4	21.6	21.8	21.7	21.8	21.9
25 (237)	2.5	3.4	5.2	19.0	19.8	20.5	98.3	99.8	100.0	23.4	4.8	21.1	21.2	21.5	21.4	21.5	21.7
26 (238)	1.4	2.9	3.7	18.6	19.9	21.5	95.0	98.5	100.0	4.2	7.7	21.0	21.2	21.3	21.4	21.4	21.5
27 (239)	0.4	1.7	2.9	17.5	19.4	22.5	92.2	98.7	100.0	5.6	8.7	20.9	21.1	21.3	21.3	21.3	21.4
28 (240)	0.7	1.7	3.5	18.3	19.7	21.8	88.3	97.3	100.0	5.0	11.3	21.0	21.3	21.6	21.3	21.4	21.5
29 (241)	1.5	2.5	4.3	18.7	20.4	23.2	81.6	95.5	100.0	12.2	19.8	21.1	21.6	22.2	21.4	21.5	21.7
30 (242)	1.4	2.2	3.3	19.3	20.7	23.9	85.0	96.7	100.0	5.8	17.4	21.6	22.0	22.5	21.7	21.8	21.9
31 (243)	1.3	2.3	4.1	19.4	20.7	23.5	88.3	97.0	100.0	8.8	13.0	21.9	22.2	22.5	21.9	22.0	22.1
	0.1	2.3	5.2	17.5	20.3	24.1	81.6	98.6	100.0	609.8	320	20.8	21.7	23.2	20.9	21.7	22.4

-99.00 indicate No data or Invalid data.



KERALA FOREST RESEARCH INSTITUTE, DAILY FOREST METEOROLOGICAL DATA  
 Station 2. Silent Valley NP 1st September 1998 to 30th September 1998

Day	Wind speed			Temperature			Humidity			Rain	Solar	Soil(15cm)			Soil(30cm)		
	m/s			oC			%			mm	MJ/m2	temp oC			temp oC		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Total	Total	Min	Avg	Max	Min	Avg	Max
1 (244)	0.0	2.5	4.1	19.3	19.9	21.5	92.5	97.7	100.0	15.6	8.6	21.7	21.9	22.2	21.9	22.0	22.1
2 (245)	1.8	2.3	3.5	19.0	20.5	22.5	87.4	95.5	100.0	10.8	13.8	21.4	21.7	21.9	21.7	21.8	21.9
3 (246)	1.5	2.3	3.2	19.5	20.5	22.7	89.6	97.4	100.0	32.0	11.4	21.6	21.9	22.2	21.8	21.8	21.9
4 (247)	1.4	2.5	3.6	19.3	20.4	22.8	90.1	97.7	100.0	39.8	13.0	21.6	21.9	22.4	21.8	21.9	22.0
5 (248)	1.1	1.9	4.1	18.9	19.7	21.2	97.5	99.7	100.0	49.8	6.6	21.2	21.7	21.9	21.6	21.9	22.0
6 (249)	1.7	2.9	5.1	19.1	20.1	22.6	90.6	99.1	100.0	24.4	10.1	21.0	21.3	21.7	21.5	21.5	21.6
7 (250)	1.2	2.4	4.3	19.4	20.3	22.4	93.4	99.4	100.0	15.4	10.0	21.3	21.6	21.9	21.5	21.6	21.7
8 (251)	1.1	2.5	4.0	19.3	20.1	21.5	97.7	99.7	100.0	36.6	7.9	21.5	21.7	22.0	21.7	21.7	21.8
9 (252)	1.6	3.3	6.3	18.6	19.3	19.9	100.0	100.0	100.0	43.4	3.3	21.0	21.4	21.7	21.4	21.6	21.8
10 (253)	1.6	3.5	4.9	19.2	20.6	22.7	81.3	93.4	100.0	9.8	16.6	20.8	21.1	21.6	21.3	21.3	21.5
11 (254)	1.6	2.7	4.3	19.0	19.7	20.9	96.1	99.5	100.0	30.4	8.4	21.2	21.4	21.5	21.4	21.5	21.5
12 (255)	2.1	3.1	4.3	19.2	19.6	20.7	93.0	99.1	100.0	32.8	5.9	20.9	21.0	21.2	21.2	21.3	21.4
13 (256)	2.4	3.4	4.4	18.8	19.4	20.5	93.0	99.2	100.0	28.6	7.9	20.7	20.8	20.9	21.0	21.1	21.2
14 (257)	2.3	3.0	4.6	19.0	19.6	20.8	96.2	99.5	100.0	31.0	6.9	20.6	20.7	20.8	20.9	21.0	21.0
15 (258)	2.6	3.4	4.6	19.0	19.5	20.4	98.3	99.8	100.0	25.8	5.4	20.6	20.7	20.8	20.8	20.9	20.9
16 (259)	2.0	2.9	4.9	19.1	20.1	22.4	91.6	97.4	100.0	7.8	13.3	20.4	20.8	21.4	20.8	20.8	21.1
17 (260)	1.8	2.5	3.4	18.9	20.4	23.5	83.8	95.2	100.0	2.2	15.7	20.9	21.4	22.0	21.1	21.2	21.4
18 (261)	1.6	2.4	3.1	18.6	20.6	23.6	77.6	91.6	99.0	0.2	22.7	21.1	21.8	22.5	21.4	21.5	21.8
19 (262)	1.4	2.8	4.6	18.1	20.4	23.6	81.5	93.5	99.3	0.2	23.0	21.5	22.2	22.9	21.7	21.8	22.1
20 (263)	1.2	2.3	4.1	18.5	19.8	22.8	84.6	95.4	98.9	2.8	14.3	21.8	22.3	22.6	22.0	22.1	22.1
21 (264)	0.9	2.0	3.0	18.8	19.8	22.4	87.8	97.2	100.0	7.6	13.0	21.8	22.2	22.5	22.0	22.1	22.2
22 (265)	1.1	2.0	3.6	17.8	20.2	23.3	88.6	97.1	100.0	27.2	15.0	21.6	22.2	23.0	21.9	22.1	22.4
23 (266)	1.1	2.2	3.8	18.9	20.1	22.7	90.4	98.4	100.0	11.2	10.0	22.1	22.4	22.7	22.2	22.3	22.4
24 (267)	0.2	1.6	3.0	18.2	19.4	20.8	95.0	98.5	100.0	5.6	7.0	21.7	22.0	22.3	22.0	22.1	22.4
25 (268)	0.4	1.4	2.6	18.9	20.0	21.5	90.0	98.2	100.0	8.0	9.4	21.6	21.9	22.2	21.9	22.0	22.1
26 (269)	0.8	2.0	4.6	18.6	19.3	20.0	100.0	100.0	100.0	4.8	5.5	21.7	21.9	22.1	22.0	22.0	22.1
27 (270)	0.9	1.7	2.7	19.0	20.1	22.8	90.4	98.6	100.0	6.2	10.8	21.6	22.0	22.5	21.9	22.0	22.1
28 (271)	0.8	2.2	3.0	18.4	20.1	22.7	92.3	98.4	100.0	13.4	13.8	21.8	22.2	22.6	22.0	22.1	22.3
29 (272)	0.6	1.9	2.9	18.9	19.6	20.2	96.5	99.5	100.0	37.2	4.7	21.6	21.9	22.4	21.9	22.1	22.3
30 (273)	1.2	2.4	4.1	19.0	20.5	22.8	88.9	95.0	100.0	3.0	16.3	21.3	21.9	22.5	21.8	21.9	22.1
	0.0	2.5	6.3	17.8	20.0	23.6	77.6	97.7	100.0	563.6	330	20.4	21.7	23.0	20.8	21.7	22.4

-99.00 indicate No data or Invalid data.

KERALA FOREST RESEARCH INSTITUTE, DAILY FOREST METEOROLOGICAL DATA  
Station 2, Silent Valley NP 1st October 1998 to 31st October 1998

Day	Wind speed			Temperature			Humidity			Rain mm	Solar MJ/m2	Soil(15cm)			Soil(30cm)		
	m/s			oC			%					temp oC			temp oC		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Total	Total	Min	Avg	Max	Min	Avg	Max
1 (274)	0.8	2.3	3.4	18.3	20.2	23.2	83.3	95.1	100.0	1.2	18.3	21.7	22.3	22.9	22.0	22.1	22.3
2 (275)	0.8	1.9	2.7	19.2	20.4	22.6	92.4	98.1	100.0	33.4	9.4	22.0	22.3	22.6	22.2	22.3	22.3
3 (276)	1.5	2.5	5.0	18.6	20.0	21.2	91.0	98.3	100.0	6.6	9.2	21.8	22.1	22.3	22.1	22.2	22.3
4 (277)	1.6	2.3	3.1	19.1	19.8	21.5	88.7	96.5	100.0	2.2	12.5	21.7	22.0	22.2	22.0	22.1	22.2
5 (278)	1.4	2.2	4.1	18.5	19.3	20.8	93.0	98.5	100.0	28.4	5.2	21.4	21.7	22.0	21.7	21.9	22.1
6 (279)	0.9	1.8	3.0	19.1	20.2	22.0	92.9	97.3	100.0	9.8	11.5	21.2	21.6	22.2	21.7	21.8	21.9
7 (280)	0.7	1.6	3.0	18.8	20.4	23.7	85.7	96.5	100.0	16.0	14.2	21.3	22.0	22.6	21.7	21.9	22.1
8 (281)	0.2	1.5	4.0	19.0	19.8	21.5	93.5	98.8	100.0	41.6	10.1	21.9	22.2	22.7	22.1	22.2	22.3
9 (282)	0.4	1.9	5.3	18.9	19.4	20.2	100.0	100.0	100.0	62.8	3.4	21.4	21.7	22.1	21.7	21.9	22.3
10 (283)	1.9	3.6	5.6	19.2	19.8	20.2	100.0	100.0	100.0	114.6	2.2	20.6	20.8	21.4	20.9	21.1	21.7
11 (284)	2.1	4.0	6.6	19.7	20.1	20.5	100.0	100.0	100.0	181.4	2.0	20.3	20.6	20.8	20.5	20.7	20.9
12 (285)	1.6	3.6	7.1	19.1	19.7	20.5	100.0	100.0	100.0	90.2	4.0	20.0	20.2	20.4	20.1	20.3	20.4
13 (286)	1.2	1.9	3.3	19.3	20.0	21.8	93.9	99.5	100.0	12.0	7.4	20.3	20.6	21.1	20.4	20.5	20.8
14 (287)	1.4	2.9	4.4	18.3	19.0	19.5	96.1	99.7	100.0	41.0	6.0	20.6	20.8	21.0	20.7	20.8	20.9
15 (288)	2.1	3.0	3.9	18.9	19.3	19.9	98.3	99.9	100.0	31.4	4.1	20.3	20.5	20.6	20.5	20.7	20.8
16 (289)	1.7	2.5	3.0	19.4	19.9	21.1	95.6	99.2	100.0	6.4	9.0	20.3	20.6	21.1	20.6	20.6	20.8
17 (290)	1.6	2.1	3.4	18.9	20.0	22.7	91.4	98.6	100.0	24.2	10.6	20.7	21.2	21.7	20.8	21.0	21.3
18 (291)	1.7	2.7	3.3	18.8	20.1	21.6	94.1	98.0	100.0	5.4	9.2	20.9	21.2	21.6	21.1	21.2	21.2
19 (292)	1.2	2.5	3.7	18.4	20.2	22.7	83.8	94.1	99.7	0.0	20.8	20.6	21.3	22.0	21.0	21.2	21.4
20 (293)	0.9	2.4	4.8	16.1	19.6	23.0	73.2	91.8	100.0	0.0	20.5	20.9	21.6	22.3	21.3	21.4	21.6
21 (294)	1.0	2.4	4.0	15.8	19.0	22.7	63.2	90.3	100.0	0.0	20.6	21.0	21.7	22.2	21.4	21.5	21.7
22 (295)	0.8	2.5	4.0	15.6	18.7	22.4	77.5	91.3	99.4	0.2	22.2	20.8	21.6	22.3	21.4	21.5	21.7
23 (296)	1.0	2.1	3.6	16.2	18.9	21.6	77.7	93.7	100.0	0.0	13.1	21.1	21.7	22.1	21.5	21.6	21.7
24 (297)	0.4	1.8	3.7	17.5	19.6	22.2	90.9	97.8	100.0	0.2	10.0	21.1	21.5	21.8	21.5	21.6	21.7
25 (298)	0.6	1.6	2.7	18.9	20.9	23.2	90.0	97.0	100.0	0.0	12.0	21.2	21.6	22.2	21.5	21.6	21.7
26 (299)	1.1	2.0	3.6	19.0	20.6	23.1	79.4	95.5	100.0	0.0	12.2	21.6	21.9	22.2	21.7	21.8	21.9
27 (300)	0.5	1.8	3.7	18.6	20.3	23.3	86.9	97.9	100.0	6.6	10.4	21.6	21.9	22.3	21.8	21.9	21.9
28 (301)	0.6	1.6	2.9	18.7	20.6	22.8	90.5	97.7	100.0	2.6	10.7	21.5	21.9	22.4	21.8	21.9	22.0
29 (302)	0.7	1.9	4.5	18.8	20.4	23.1	91.8	98.6	100.0	2.8	10.3	21.8	22.1	22.4	21.9	22.0	22.0
30 (303)	0.6	2.1	3.8	18.0	20.4	22.7	84.0	95.5	100.0	0.0	18.4	21.6	22.2	22.8	21.9	22.0	22.2
31 (304)	1.1	2.4	4.1	18.4	20.2	22.9	88.8	95.6	100.0	20.4	18.1	22.0	22.5	23.3	22.1	22.3	22.5

0.2 2.3 7.1 15.6 19.9 23.7 63.2 97.1 100.0 741.4 348 20.0 21.6 23.3 20.1 21.5 22.5

-99.00 indicate No data or Invalid data.

**KERALA FOREST RESEARCH INSTITUTE. DAILY FOREST METEOROLOGICAL DATA**  
**Station 2. Silent Valley NP 1st November 1998 to 30th November 1998**

Day	Wind speed			Temperature			Humidity			Rain	Solar	Soil(15cm)			Soil(30cm)		
	m/s			oC			%			mm	MJ/m2	temp oC			temp oC		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Total	Total	Min	Avg	Max	Min	Avg	Max
1 (305)	0.6	1.6	3.4	17.5	19.4	21.5	94.0	97.1	100.0	0.0	8.5	22.0	22.2	22.6	22.2	22.3	22.5
2 (306)	0.7	1.7	3.2	17.7	19.1	21.9	86.1	96.2	100.0	1.2	7.8	21.7	21.9	22.1	22.0	22.1	22.2
3 (307)	0.5	1.7	3.0	18.2	19.7	22.1	90.0	96.6	100.0	22.8	6.3	21.0	21.3	21.8	21.6	21.7	22.0
4 (308)	0.3	1.1	2.0	18.3	19.5	20.8	96.4	99.4	100.0	1.8	5.6	21.1	21.4	21.6	21.6	21.6	21.7
5 (309)	0.2	1.5	3.0	18.7	20.5	22.8	81.0	93.7	100.0	0.2	9.5	21.3	21.5	21.8	21.6	21.6	21.7
6 (310)	0.6	1.7	3.5	18.3	20.8	23.9	82.2	94.2	100.0	0.6	11.6	21.2	21.6	22.0	21.6	21.7	21.8
7 (311)	0.9	1.9	3.4	18.2	20.6	23.5	89.6	97.5	100.0	7.2	8.7	21.5	21.8	22.1	21.7	21.8	21.9
8 (312)	0.7	2.3	5.2	19.0	21.1	24.3	81.6	94.4	100.0	82.8	14.8	21.0	21.7	22.5	21.7	21.9	22.5
9 (313)	0.4	1.6	4.0	19.3	20.2	23.2	88.2	98.7	100.0	43.0	11.3	21.1	21.5	22.1	21.6	21.7	21.9
10 (314)	1.1	2.4	4.4	18.5	21.2	23.3	83.8	91.3	100.0	52.6	14.3	20.5	21.2	21.8	21.1	21.4	21.9
11 (315)	0.9	2.3	5.2	18.9	21.7	25.3	61.1	85.6	97.3	0.0	24.2	21.4	22.0	22.7	21.6	21.7	22.0
12 (316)	0.8	2.0	3.5	17.0	20.3	22.9	86.4	95.1	100.0	0.0	13.5	21.6	22.0	22.4	21.9	22.0	22.1
13 (317)	1.2	2.0	3.0	18.0	20.3	22.8	86.1	95.4	100.0	6.4	9.7	21.8	22.1	22.3	22.0	22.0	22.1
14 (318)	0.9	2.4	3.9	17.2	19.3	22.6	89.9	97.3	100.0	29.0	17.0	21.4	21.8	22.6	21.8	22.0	22.1
15 (319)	1.1	2.3	3.4	15.9	19.2	23.3	76.6	92.5	100.0	0.0	19.6	21.0	21.6	22.1	21.7	21.8	22.0
16 (320)	1.3	2.4	3.7	14.6	18.9	23.5	48.0	80.8	100.0	0.0	20.7	20.7	21.4	21.9	21.5	21.7	21.9
17 (321)	1.0	2.5	3.8	16.0	19.4	22.7	78.7	91.2	99.5	0.0	19.1	20.9	21.5	22.1	21.5	21.7	21.8
18 (322)	1.1	2.2	3.3	17.4	20.4	24.8	77.3	86.8	96.6	0.0	19.3	21.3	21.9	22.5	21.7	21.8	22.0
19 (323)	0.9	2.5	4.2	15.9	19.2	24.0	69.6	86.5	98.3	0.0	21.0	21.1	21.8	22.4	21.7	21.9	22.0
20 (324)	0.9	2.4	3.9	15.9	19.3	23.6	75.8	90.1	99.5	0.0	19.4	21.1	21.7	22.3	21.7	21.9	22.0
21 (325)	0.5	1.8	3.0	17.4	19.5	22.0	90.4	96.4	100.0	2.4	12.0	21.5	21.8	22.1	21.8	21.9	22.0
22 (326)	0.6	2.0	4.6	16.9	19.5	21.5	90.4	97.5	100.0	6.2	8.8	21.4	21.7	22.0	21.8	21.9	22.0
23 (327)	0.8	2.2	4.4	18.0	20.8	23.3	82.0	93.0	100.0	0.0	16.6	21.4	21.8	22.4	21.7	21.8	22.0
24 (328)	1.1	2.2	4.0	17.0	20.2	22.5	88.9	94.7	100.0	0.0	16.2	21.5	22.0	22.5	21.9	22.0	22.1
25 (329)	0.9	2.1	4.0	16.8	19.8	23.0	85.7	94.3	100.0	0.0	15.3	21.5	22.0	22.4	21.9	22.0	22.1
26 (330)	0.7	2.0	3.4	17.3	20.0	23.0	87.1	93.2	99.9	0.2	13.8	21.5	21.9	22.3	21.9	22.0	22.1
27 (331)	0.4	2.1	3.8	17.7	20.2	22.6	77.7	91.8	99.2	0.0	18.1	21.5	22.0	22.6	21.9	22.0	22.1
28 (332)	0.6	2.2	3.7	16.8	19.6	22.5	80.1	92.2	98.9	0.0	18.9	21.5	22.1	22.5	22.0	22.1	22.2
29 (333)	0.6	2.3	4.4	15.8	19.7	23.4	76.8	91.4	99.3	0.0	21.6	21.4	22.1	22.7	22.0	22.1	22.2
30 (334)	0.6	2.2	3.9	16.9	19.9	22.9	81.5	93.6	99.8	0.0	14.4	21.6	22.1	22.5	22.0	22.2	22.3
	0.2	2.1	5.2	14.6	20.0	25.3	48.0	93.3	100.0	256.4	438	20.5	21.8	22.7	21.1	21.9	22.5

-99.00 indicate No data or Invalid data.

KERALA FOREST RESEARCH INSTITUTE. DAILY FOREST METEOROLOGICAL DATA  
 Station 2. Silent Valley NP 1st December 1998 to 31st December 1998

Day	Wind speed			Temperature			Humidity			Rain	Solar	Soil(15cm)			Soil(30cm)		
	m/s			oC			%			mm	MJ/m2	temp oC			temp oC		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Total	Total	Min	Avg	Max	Min	Avg	Max
1 (335)	0.5	1.4	2.4	17.9	20.1	23.1	87.2	94.9	100.0	1.0	7.3	21.7	22.0	22.2	22.0	22.1	22.2
2 (336)	0.7	1.5	3.0	18.5	20.9	24.1	74.1	87.9	100.0	18.6	12.5	21.4	21.8	22.2	21.8	22.0	22.1
3 (337)	0.7	1.6	3.9	17.7	21.0	25.4	63.7	74.8	87.1	0.0	22.0	21.1	21.7	22.2	21.8	21.9	22.0
4 (338)	0.9	2.0	4.0	16.4	20.8	24.8	60.4	81.1	94.4	0.0	14.7	21.1	21.6	22.1	21.7	21.9	22.0
5 (339)	1.1	1.9	3.4	17.9	21.0	24.6	79.9	90.5	100.0	0.0	13.8	21.3	21.8	22.1	21.8	21.9	22.0
6 (340)	0.7	1.9	3.3	18.3	20.5	23.1	60.1	83.9	100.0	0.0	11.6	21.5	21.8	22.0	21.9	21.9	22.0
7 (341)	1.0	2.0	3.8	18.1	20.7	24.2	64.5	74.6	83.2	0.0	12.5	21.1	21.4	21.7	21.7	21.8	22.0
8 (342)	1.5	3.5	7.2	18.8	21.5	23.4	68.8	77.8	83.5	0.2	6.4	21.0	21.2	21.5	21.6	21.7	21.8
9 (343)	2.7	5.1	7.4	20.7	22.0	23.8	71.6	78.9	88.7	1.4	11.8	21.0	21.2	21.5	21.5	21.6	21.6
10 (344)	2.1	4.4	7.5	20.1	21.1	22.4	85.6	90.2	96.8	32.4	10.2	21.1	21.3	21.6	21.5	21.6	21.6
11 (345)	2.7	5.4	9.5	19.2	20.5	21.4	85.2	91.4	95.6	9.6	7.4	20.9	21.0	21.2	21.4	21.4	21.5
12 (346)	2.1	7.0	10.6	19.5	21.1	22.5	71.6	79.0	88.8	5.0	18.4	20.4	20.7	21.0	21.1	21.2	21.4
13 (347)	2.0	3.7	5.5	19.8	21.1	23.4	72.8	82.8	89.0	0.0	15.9	20.6	21.0	21.4	21.2	21.2	21.3
14 (348)	0.7	2.5	4.4	18.8	20.9	23.7	74.5	83.2	92.4	0.0	17.2	20.9	21.3	21.9	21.3	21.4	21.5
15 (349)	0.5	1.9	4.0	17.1	19.9	23.2	78.8	93.3	100.0	0.0	15.4	21.0	21.5	22.1	21.4	21.5	21.7
16 (350)	0.3	1.2	2.3	18.6	19.7	20.9	86.2	98.6	100.0	0.6	4.7	21.6	21.7	22.0	21.7	21.7	21.7
17 (351)	0.6	2.0	4.3	17.4	20.2	23.5	60.7	82.5	97.6	0.6	19.8	21.1	21.6	22.1	21.5	21.6	21.7
18 (352)	0.7	2.3	5.1	15.3	19.0	22.1	78.3	89.7	96.3	0.0	17.7	20.8	21.3	21.7	21.4	21.6	21.8
19 (353)	0.8	2.2	3.9	15.7	19.3	21.8	82.6	93.6	98.6	0.0	18.3	20.7	21.3	21.9	21.4	21.5	21.6
20 (354)	0.8	1.9	4.2	17.6	19.8	22.7	80.5	92.6	99.1	0.0	16.4	21.2	21.6	22.0	21.5	21.6	21.7
21 (355)	0.9	2.0	3.5	15.7	19.2	22.8	72.3	89.5	98.2	0.0	21.5	20.9	21.5	22.1	21.5	21.6	21.7
22 (356)	0.4	1.8	3.4	16.3	19.3	22.8	72.7	87.8	99.1	0.0	20.5	21.1	21.6	22.1	21.6	21.7	21.8
23 (357)	0.6	2.2	4.4	13.7	18.7	22.9	66.2	77.1	93.6	0.0	22.4	20.7	21.3	21.8	21.5	21.6	21.8
24 (358)	0.9	2.4	3.7	13.3	18.5	23.7	67.2	77.6	86.3	0.0	21.0	20.3	20.9	21.4	21.3	21.4	21.6
25 (359)	1.2	2.2	3.8	12.9	18.1	23.2	63.1	75.6	88.2	0.0	20.6	20.0	20.6	21.1	21.1	21.2	21.4
26 (360)	1.0	2.5	4.7	13.6	18.7	23.1	56.0	73.3	89.8	0.0	22.1	19.9	20.4	20.9	20.9	21.0	21.2
27 (361)	1.0	2.6	5.8	16.6	20.2	23.5	75.8	84.0	92.1	0.0	17.8	20.3	20.8	21.4	21.0	21.0	21.2
28 (362)	0.9	2.4	4.7	18.2	21.2	24.9	71.5	84.1	96.5	0.0	17.9	20.8	21.3	21.8	21.2	21.3	21.5
29 (363)	0.8	2.0	3.7	17.6	20.7	23.5	76.6	85.0	96.4	0.0	19.4	21.0	21.6	22.2	21.4	21.5	21.7
30 (364)	1.2	2.3	3.6	15.8	19.4	24.3	71.7	84.3	96.8	0.0	18.7	21.0	21.6	22.1	21.5	21.6	21.7
31 (365)	1.2	2.1	3.0	15.6	20.3	25.2	59.3	74.5	84.0	0.0	19.5	20.8	21.4	21.9	21.5	21.6	21.7
	0.3	2.6	10.6	12.9	20.2	25.4	56.0	84.3	100.0	69.4	495	19.9	21.4	22.2	20.9	21.6	22.2

-99.00 indicate No data or Invalid data.

KERALA FOREST RESEARCH INSTITUTE. DAILY FOREST METEOROLOGICAL DATA  
 Station 2. Silent Valley NP 1st January 1999 to 31st January 1999

Day	Wind speed			Temperature			Humidity			Rain mm	Solar MJ/m2	Soil(15cm) temp oC			Soi1(30cm) temp oC		
	m/s			oc			%										
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Total	Total	Min	Avg	Max	Min	Avg	Max
1 ( 1)	0.9	2.0	4.0	15.6	20.2	25.3	66.2	79.0	90.4	0.0	22.1	20.8	21.4	22.0	21.5	21.6	21.7
2 ( 2)	0.9	2.0	3.3	16.3	19.9	24.0	66.8	80.1	95.8	0.0	19.0	21.0	21.5	21.9	21.5	21.6	21.7
3 ( 3)	0.9	2.7	4.9	13.4	18.9	24.4	52.9	70.6	90.4	0.0	22.0	20.6	21.2	21.6	21.4	21.6	21.7
4 ( 4)	1.0	2.2	4.5	14.5	18.9	23.7	60.7	70.5	78.7	0.0	22.7	20.2	20.9	21.5	21.2	21.4	21.6
5 ( 5)	0.8	2.5	5.3	15.3	19.4	22.9	70.1	78.6	87.8	0.0	22.0	20.3	21.0	21.8	21.2	21.3	21.5
6 ( 6)	1.0	2.3	4.2	15.5	19.0	23.9	72.9	87.2	97.5	0.0	21.6	20.8	21.4	22.1	21.4	21.5	21.7
7 ( 7)	1.0	2.3	3.8	14.6	18.8	23.1	73.4	87.5	96.8	0.0	20.3	20.8	21.5	22.1	21.5	21.6	21.7
8 ( 8)	1.1	2.4	4.8	15.6	19.9	24.4	72.0	84.9	96.5	0.0	19.6	21.0	21.6	22.1	21.6	21.7	21.8
9 ( 9)	0.9	1.6	2.9	15.9	20.0	24.2	69.0	82.2	94.2	0.0	11.9	21.1	21.5	21.9	21.7	21.7	21.8
10 ( 10)	1.0	2.4	4.5	15.1	20.2	25.0	57.3	75.7	90.6	0.0	21.9	20.7	21.3	21.9	21.5	21.6	21.7
11 ( 11)	1.0	2.2	3.8	15.6	20.0	24.3	68.4	74.1	81.6	0.0	19.9	20.8	21.4	21.9	21.5	21.6	21.7
12 ( 12)	0.8	2.2	3.5	15.0	19.4	23.0	72.9	81.4	91.1	0.0	16.3	20.8	21.4	21.9	21.5	21.7	21.8
13 ( 13)	0.9	2.0	4.1	16.3	20.6	24.4	49.5	66.0	82.0	0.0	22.3	20.8	21.4	22.0	21.5	21.7	21.8
14 ( 14)	0.8	3.0	6.0	17.6	21.0	25.2	48.4	70.9	83.2	0.0	22.8	20.8	21.4	22.0	21.5	21.7	21.8
15 ( 15)	1.5	3.2	5.2	18.2	20.9	23.5	64.9	71.5	81.4	0.0	23.0	21.2	21.8	22.3	21.7	21.8	22.0
16 ( 16)	0.7	2.0	3.6	16.4	20.1	23.7	70.2	79.4	90.3	0.0	17.5	21.3	21.8	22.3	21.8	21.9	22.0
17 ( 17)	1.5	2.5	4.4	14.6	19.7	24.4	67.8	78.7	95.1	0.0	18.2	21.1	21.7	22.2	21.8	21.9	22.0
18 ( 18)	0.8	2.2	3.5	15.8	20.6	26.1	47.5	67.7	83.9	0.0	22.6	21.0	21.7	22.4	21.8	21.9	22.0
19 ( 19)	1.0	2.2	4.3	15.2	20.5	25.8	40.5	64.8	87.1	0.0	22.7	21.1	21.9	22.5	21.9	22.0	22.1
20 ( 20)	0.9	2.2	4.3	15.4	20.4	25.0	52.9	63.7	75.7	0.0	23.0	21.2	21.9	22.6	21.9	22.1	22.2
21 ( 21)	1.0	2.4	3.6	13.7	19.0	24.2	61.2	76.2	91.1	0.0	22.2	21.2	21.9	22.6	21.9	22.1	22.2
22 ( 22)	0.7	2.3	4.5	14.3	18.2	23.5	64.9	81.3	93.9	0.0	20.7	21.3	22.0	22.5	22.0	22.1	22.2
23 ( 23)	1.0	2.3	4.6	14.7	19.3	25.5	37.9	66.1	88.6	0.0	19.6	21.2	21.8	22.3	21.9	22.1	22.2
24 ( 24)	0.6	2.2	3.8	13.5	18.9	23.6	29.2	51.9	71.0	0.0	17.2	20.8	21.4	21.9	21.8	21.9	22.1
25 ( 25)	1.1	2.5	4.5	15.8	19.9	25.6	26.4	45.8	59.7	0.0	22.3	20.6	21.3	22.1	21.6	21.7	21.9
26 ( 26)	0.5	2.5	4.1	13.6	20.0	26.7	13.8	39.9	60.7	0.0	24.3	20.6	21.4	22.0	21.6	21.8	21.9
27 ( 27)	0.8	2.5	4.3	14.1	19.7	24.5	47.5	58.7	73.5	0.0	22.9	20.7	21.5	22.3	21.6	21.8	21.9
28 ( 28)	0.9	2.1	4.5	14.3	19.4	24.2	46.9	70.7	96.7	0.0	21.6	21.0	21.8	22.6	21.8	21.9	22.1
29 ( 29)	0.7	2.4	5.0	14.8	20.2	23.8	63.9	73.8	89.8	0.0	20.0	21.4	22.1	22.8	22.0	22.1	22.3
30 ( 30)	0.8	1.8	4.0	15.7	19.7	23.3	71.0	81.5	99.4	0.0	17.5	21.6	22.3	22.8	22.1	22.3	22.4
31 ( 31)	1.1	2.5	5.1	14.8	20.0	24.6	57.2	80.7	100.0	0.0	20.4	21.7	22.3	22.9	22.2	22.3	22.4
	0.5	2.3	6.0	13.4	19.8	26.7	13.8	72.3	100.0	0.0	640	20.2	21.6	22.9	21.2	21.8	22.4

-99.00 indicate No data or Invalid data.

## KERALA FOREST RESEARCH INSTITUTE. DAILY FOREST METEOROLOGICAL DATA

Station 2, Silent Valley NP 1st February 1999 to 28th February 1999

Day	Wind speed			Temperature			Humidity			Rain	Solar	Soil(15cm)			Soil(30cm)		
	m/s			oC			%			mm	MJ/m2	temp oC			temp oC		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Total	Total	Min	Avg	Max	Min	Avg	Max
1 ( 32)	1.3	2.9	4.6	15.6	21.2	26.5	27.5	59.7	83.8	0.0	24.0	21.7	22.5	23.2	22.3	22.4	22.6
2 ( 33)	1.2	2.7	5.1	14.5	20.6	25.2	56.1	68.2	81.5	0.0	23.6	21.7	22.5	23.2	22.4	22.5	22.6
3 ( 34)	0.8	2.7	5.6	16.5	21.2	25.2	69.8	82.8	98.1	0.4	20.2	22.3	23.0	23.8	22.6	22.7	22.9
4 ( 35)	1.0	2.2	4.5	16.8	20.4	24.1	78.6	91.8	100.0	7.4	14.6	22.6	23.1	23.6	22.8	22.9	23.0
5 ( 36)	1.2	2.0	4.1	17.9	20.0	22.8	89.0	97.6	100.0	11.4	9.2	22.4	22.8	23.4	22.8	22.9	23.1
6 ( 37)	0.8	2.5	4.3	18.8	21.9	25.0	65.6	81.8	100.0	3.8	21.3	21.9	22.6	23.6	22.5	22.7	22.9
7 ( 38)	0.8	2.4	3.9	17.0	22.1	25.7	49.0	71.1	87.1	0.0	24.3	22.0	22.9	23.7	22.6	22.8	23.0
8 ( 39)	0.7	2.4	4.3	18.1	20.7	24.2	75.0	87.7	97.0	9.8	14.5	22.3	22.8	23.4	22.8	23.0	23.1
9 ( 40)	0.8	2.3	4.9	16.7	21.0	25.0	57.8	75.0	95.2	0.0	23.1	21.6	22.5	23.4	22.4	22.7	22.9
10 ( 41)	0.7	2.2	5.0	16.5	20.5	24.2	72.5	85.7	98.9	8.0	21.9	21.9	22.8	23.6	22.6	22.8	23.0
11 ( 42)	1.1	2.2	3.9	18.9	21.6	25.0	49.0	71.3	100.0	5.6	21.3	22.3	23.0	23.7	22.8	22.9	23.1
12 ( 43)	0.5	2.2	3.6	15.6	20.8	26.2	38.5	66.6	86.2	0.0	25.0	21.8	22.7	23.5	22.6	22.9	23.1
13 ( 44)	1.2	2.6	4.8	15.9	22.2	25.7	49.8	64.3	80.1	0.0	23.5	21.8	22.7	23.5	22.6	22.8	23.0
14 ( 45)	1.2	3.2	5.0	16.8	22.7	27.9	39.4	67.6	94.1	0.0	24.8	22.1	23.0	23.8	22.7	22.9	23.1
15 ( 46)	1.4	4.3	7.6	17.5	22.8	26.9	31.7	63.4	97.1	0.0	25.8	22.4	23.1	23.7	23.0	23.1	23.3
16 ( 47)	1.1	3.7	6.7	18.7	23.3	26.7	30.9	53.1	90.9	0.0	24.3	22.3	23.1	23.8	22.9	23.1	23.3
17 ( 48)	1.1	2.6	6.1	19.5	23.5	27.6	31.2	49.0	77.5	0.0	24.0	22.4	23.3	24.2	23.0	23.2	23.5
18 ( 49)	1.3	3.1	5.3	16.4	22.5	26.5	52.6	64.3	75.9	0.0	24.1	22.5	23.4	24.2	23.1	23.4	23.5
19 ( 50)	1.5	3.1	4.4	19.8	22.8	26.3	33.8	53.0	76.3	0.0	19.5	23.0	23.6	24.1	23.4	23.5	23.6
20 ( 51)	1.1	2.7	5.8	17.7	21.2	24.3	59.0	70.1	84.4	0.0	11.5	22.7	23.2	23.8	23.3	23.4	23.6
21 ( 52)	1.5	3.4	6.8	20.4	22.9	25.7	47.4	60.2	74.9	0.0	14.4	22.6	23.1	23.6	23.1	23.3	23.4
22 ( 53)	1.3	2.8	4.4	19.5	22.6	26.0	33.5	56.1	78.0	0.0	17.8	22.6	23.2	23.9	23.1	23.2	23.4
23 ( 54)	1.4	2.8	4.7	17.5	22.8	27.0	38.5	55.9	83.6	0.0	24.9	22.6	23.5	24.5	23.2	23.4	23.6
24 ( 55)	1.1	3.1	5.3	20.7	23.4	26.3	28.6	36.8	57.8	0.0	25.7	22.9	23.8	24.7	23.4	23.6	23.9
25 ( 56)	1.6	2.8	5.0	18.1	23.1	27.3	22.9	39.5	62.6	0.0	26.3	23.0	24.0	25.0	23.6	23.8	24.0
26 ( 57)	1.1	2.5	4.9	15.2	22.4	28.5	20.2	38.3	67.4	0.0	26.6	23.0	24.0	25.0	23.7	23.9	24.1
27 ( 58)	1.3	2.9	4.6	16.9	22.7	28.1	21.4	40.3	60.8	0.0	26.8	23.1	24.2	25.2	23.7	24.0	24.2
	0.5	2.7	7.6	14.5	22.0	28.5	20.2	64.9	100.0	46.4	583	21.6	23.1	25.2	22.3	23.1	24.2

-99.00 indicate No data or Invalid data.

KERALA FOREST RESEARCH INSTITUTE. DAILY FOREST METEOROLOGICAL DATA  
 Station 2. Silent Valley NP 1st March 1999 to 31st March 1999

Day	Wind speed			Temperature			Humidity			Rain mm	Solar MJ/m2	Soil(15cm)			Soil(30cm)		
	m/s			oc			%					temp oC			temp oC		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max			Total	Total	Min	Avg	Max	Min
1 ( 60)	1.2	2.6	3.9	18.2	23.6	28.3	41.4	62.3	86.1	0.0	26.3	23.9	24.8	25.9	24.1	24.3	24.6
2 ( 61)	1.3	2.8	5.2	17.6	23.3	28.3	40.4	66.8	94.5	0.0	22.3	24.4	25.3	26.0	24.5	24.7	24.9
3 ( 62)	1.2	3.8	6.8	22.0	24.9	27.9	22.0	35.5	68.0	0.0	26.8	24.5	25.4	26.2	24.6	24.8	25.1
4 ( 63)	0.9	2.3	5.7	19.0	24.5	29.3	23.8	33.8	58.9	0.0	26.1	24.4	25.4	26.4	24.7	25.0	25.2
5 ( 64)	0.5	2.1	4.5	18.7	22.2	26.4	45.5	71.8	97.1	0.0	20.5	24.7	25.5	26.1	24.9	25.1	25.3
6 ( 65)	0.8	2.0	5.1	17.6	21.8	26.6	55.3	77.6	100.0	0.0	22.5	24.5	25.4	26.2	24.8	25.0	25.2
7 ( 66)	1.0	1.9	2.7	17.0	23.3	28.9	25.9	44.4	80.1	0.0	26.3	24.4	25.4	26.3	24.8	25.1	25.2
8 ( 67)	1.1	2.7	5.8	18.3	23.3	27.4	31.6	51.1	88.8	0.0	25.2	24.6	25.6	26.5	24.9	25.2	25.4
9 ( 68)	1.2	2.5	4.2	16.5	21.3	26.9	56.5	73.3	85.7	0.0	23.4	24.6	25.6	26.4	25.0	25.2	25.4
10 ( 69)	0.8	2.3	3.5	16.9	22.2	27.2	46.7	68.1	85.8	0.0	21.4	24.6	25.5	26.4	25.0	25.2	25.4
11 ( 70)	0.9	2.4	4.2	16.9	22.2	27.8	46.6	68.8	89.5	0.0	22.6	24.6	25.6	26.5	25.0	25.3	25.4
12 ( 71)	1.2	2.1	3.8	16.0	21.3	26.5	34.7	74.2	100.0	0.0	21.8	24.5	25.5	26.3	25.0	25.3	25.5
13 ( 72)	1.1	2.2	3.8	17.2	21.4	26.6	71.7	90.5	100.0	0.0	18.3	24.9	25.7	26.4	25.1	25.3	25.4
14 ( 73)	1.1	2.0	3.9	18.3	21.8	26.2	76.3	92.1	100.0	0.0	15.0	25.0	25.6	26.1	25.2	25.4	25.5
15 ( 74)	0.7	2.1	4.3	18.8	23.4	29.3	49.3	85.8	100.0	0.0	18.1	25.0	25.6	26.2	25.2	25.3	25.4
16 ( 75)	0.9	2.3	5.5	17.5	22.2	26.7	64.1	87.1	100.0	1.6	20.7	25.1	25.8	26.4	25.2	25.4	25.5
17 ( 76)	1.2	2.2	4.0	17.7	21.8	27.5	63.6	86.9	97.2	0.0	16.0	25.0	25.6	26.2	25.3	25.4	25.6
18 ( 77)	1.1	2.4	3.9	18.0	22.2	26.9	70.7	89.5	100.0	0.0	19.9	24.8	25.5	26.3	25.1	25.3	25.5
19 ( 78)	0.9	2.4	4.4	18.7	22.6	27.4	69.8	86.1	98.5	0.0	22.1	25.1	25.9	26.8	25.3	25.5	25.7
20 ( 79)	0.8	2.4	4.9	19.7	22.9	26.5	57.3	78.5	98.6	0.0	21.7	25.3	26.2	27.0	25.5	25.7	25.9
21 ( 80)	0.4	2.4	6.1	17.6	21.9	27.0	76.8	90.5	100.0	0.0	21.8	25.4	26.3	27.1	25.6	25.8	26.0
22 ( 81)	1.1	2.3	3.4	17.9	21.7	26.7	75.3	91.4	100.0	0.0	21.9	25.6	26.5	27.2	25.8	26.0	26.1
23 ( 82)	1.0	2.5	6.1	18.4	22.0	26.4	68.1	86.8	98.3	0.0	20.1	25.6	26.5	27.1	25.9	26.1	26.2
24 ( 83)	0.8	2.1	3.5	18.7	22.1	26.8	74.4	88.6	99.1	0.0	18.2	25.6	26.4	26.9	25.9	26.0	26.2
25 ( 84)	0.7	2.1	3.8	19.0	22.5	27.6	69.7	88.9	100.0	0.0	18.5	25.7	26.4	27.1	25.9	26.0	26.1
26 ( 85)	0.7	2.3	4.9	19.2	22.6	27.7	49.0	81.2	95.8	0.0	20.8	25.8	26.6	27.3	26.0	26.1	26.3
27 ( 86)	0.6	2.1	3.8	19.6	22.2	26.0	64.7	84.2	100.0	0.0	17.9	25.9	26.6	27.2	26.0	26.2	26.3
28 ( 87)	0.9	2.1	3.6	17.9	22.3	27.9	68.7	86.8	100.0	0.0	24.3	25.8	26.7	27.6	26.0	26.2	26.4
29 ( 88)	0.8	2.0	4.4	19.1	22.7	26.8	69.8	88.2	99.5	0.0	19.7	26.4	27.1	27.7	26.4	26.5	26.6
30 ( 89)	1.0	2.3	4.6	18.4	22.1	26.9	70.2	90.4	98.3	0.0	16.3	26.2	26.8	27.4	26.3	26.5	26.7
31 ( 90)	0.9	2.1	3.5	17.9	22.2	27.7	66.9	89.5	100.0	0.0	15.6	25.8	26.4	27.0	26.1	26.3	26.5
	0.4	2.3	6.8	16.0	22.5	29.3	22.0	77.1	100.0	1.6	652	23.9	25.9	27.7	24.1	25.5	26.7

-99.00 indicate No data or Invalid data.

KERALA FOREST RESEARCH INSTITUTE  
 Monthly Meteorological Data: Silent Valley NP  
 Year= 1997

Day	Wind_speed			Temperature			Humidity			Rain	Solar	Sol(15cm)			Soi 1(30cm)		
	m/s			oc			%			mm	MJ/m2	oc			oc		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Total	Total	Min	Avg	Max	Min	Avg	Max
Jan	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
Feb	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
Mar	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
Apr	0.3	2.2	6.8	17.3	22.0	29.4	33.9	78.8	94.6	22.0	532	22.5	26.2	31.3	24.4	26.1	28.3
May	0.4	2.2	5.7	18.0	22.1	27.9	58.5	85.7	96.5	181.8	562	22.9	26.0	30.9	24.2	25.8	27.9
Jun	0.5	2.7	6.2	17.6	20.9	27.2	57.1	88.1	97.0	587.6	446	19.4	23.8	30.8	20.0	24.2	27.6
Jul	1.0	3.8	8.6	18.0	19.9	24.1	65.6	94.0	99.1	1615.0	238	18.8	20.5	23.3	19.4	20.5	22.7
Aug	1.2	3.7	8.3	17.6	19.8	23.0	71.7	94.6	100.0	769.4	233	19.2	20.6	22.3	19.6	20.6	21.6
Sep	0.3	2.2	5.1	17.0	20.3	24.5	70.4	92.4	100.0	574.8	489	20.2	22.4	24.2	20.7	22.4	23.6
Oct	0.4	2.1	4.4	16.5	21.0	26.6	59.9	87.5	98.6	95.2	239	21.7	22.9	24.1	22.3	22.9	23.4
Nov	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
Dec	0.5	2.0	7.1	16.6	21.1	24.6	48.4	78.9	94.7	0.0	196	21.9	23.0	24.1	22.8	23.2	23.7
	0.3	2.6	8.6	16.5	20.9	29.4	33.9	87.5	100.0	3845.8	2935	18.8	23.2	31.3	19.4	23.2	28.3

-99.00 indicate No data or Invalid data.



KERALA FOREST RESEARCH INSTITUTE  
 Monthly Meteorological Data: Silent Valley NP  
 Year= 1998

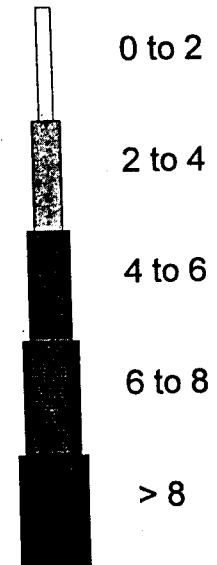
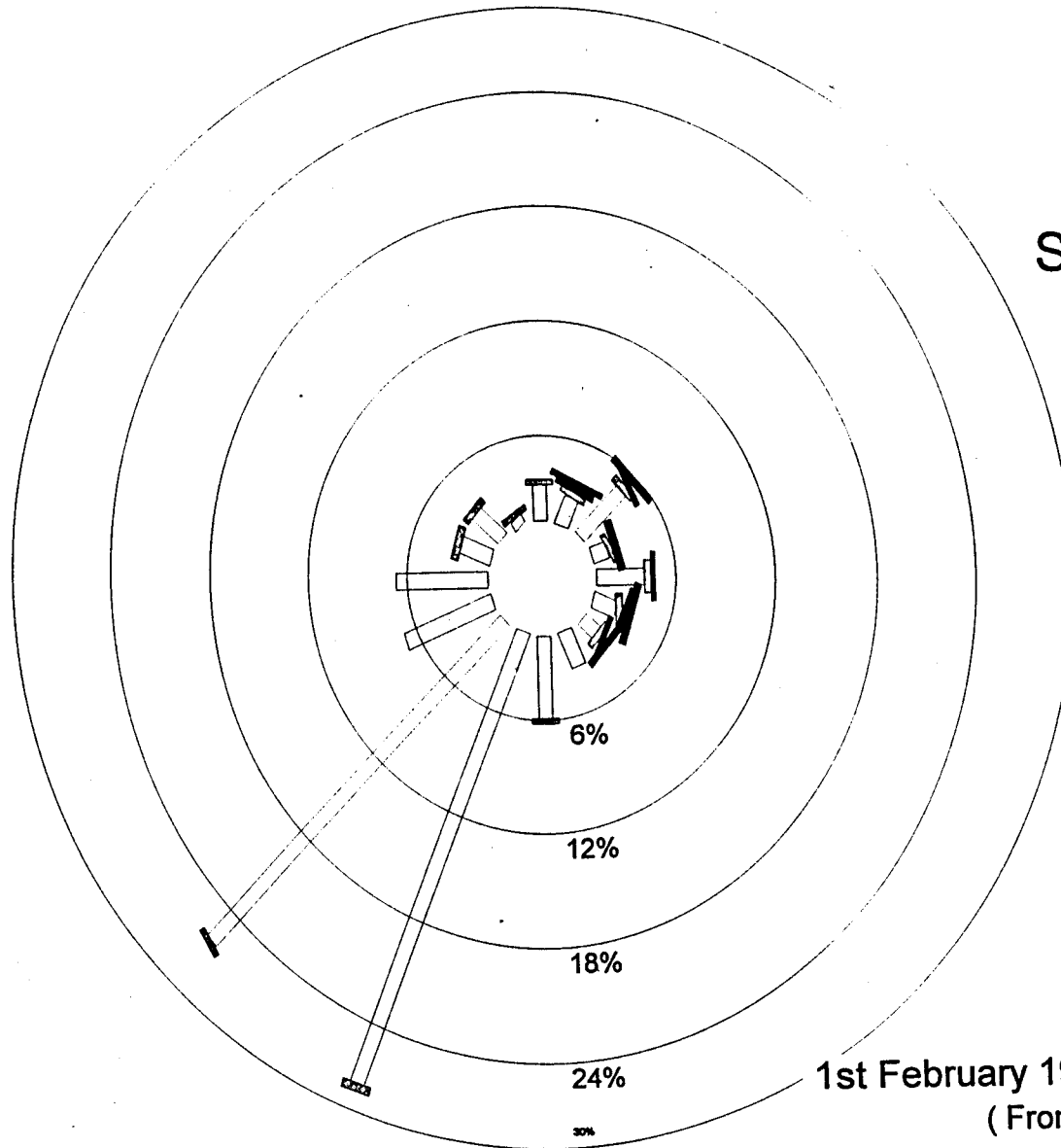
Day	Wind_speed			Temperature			Humidity			Rain	Solar	Sol(15cm)			Soil(30cm)		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Total	Total	Min	Avg	Max	Min	Avg	Max
Jan	0.6	1.9	4.6	14.8	21.1	27.4	32.1	72.0	98.5	0.0	642	21.9	23.7	25.7	23.0	23.8	25.0
Feb	0.5	2.1	4.7	15.3	21.4	27.8	24.9	75.1	100.0	0.6	577	24.1	25.3	26.6	24.8	25.3	25.9
Mar	0.5	2.2	5.5	16.6	23.0	30.6	19.8	72.7	99.5	20.2	700	24.4	27.3	29.5	25.0	27.0	28.3
Apr	0.3	2.1	5.1	18.8	23.7	31.9	24.7	83.7	100.0	45.6	576	24.2	27.3	31.0	25.3	27.1	29.1
May	0.2	2.3	5.8	19.2	23.3	30.6	50.1	89.2	100.0	98.6	539	23.7	25.9	27.6	24.6	26.0	27.0
Jun	0.3	3.5	9.5	18.0	20.9	26.5	72.7	95.9	100.0	1096.4	296	20.1	23.0	27.3	20.2	23.3	26.9
Jul	0.4	3.5	8.6	18.0	20.1	25.1	71.6	98.2	100.0	1287.6	283	19.8	21.1	23.0	20.0	21.0	22.4
Aug	0.1	2.3	5.2	17.5	20.3	24.1	81.6	98.6	100.0	609.8	320	20.8	21.7	23.2	20.9	21.7	22.4
Sep	0.0	2.5	6.3	17.8	20.0	23.6	77.6	97.7	100.0	563.6	330	20.4	21.7	23.0	20.8	21.7	22.4
Oct	0.2	2.3	7.1	15.6	19.9	23.7	63.2	97.1	100.0	741.4	348	20.0	21.6	23.3	20.1	21.5	22.5
Nov	0.2	2.1	5.2	14.6	20.0	25.3	48.0	93.3	100.0	256.4	438	20.5	21.8	22.7	21.1	21.9	22.5
Dec	0.3	2.6	10.6	12.9	20.2	25.4	56.0	84.3	100.0	69.4	495	19.9	21.4	22.2	20.9	21.6	22.2
	0.0	2.5	10.6	12.9	21.2	31.9	19.8	88.2	100.0	4789.6	5544	19.8	23.5	31.0	20.0	23.5	29.1

-99.00 indicate No data or Invalid data.



# Silent Valley NP

Wind speed m/s

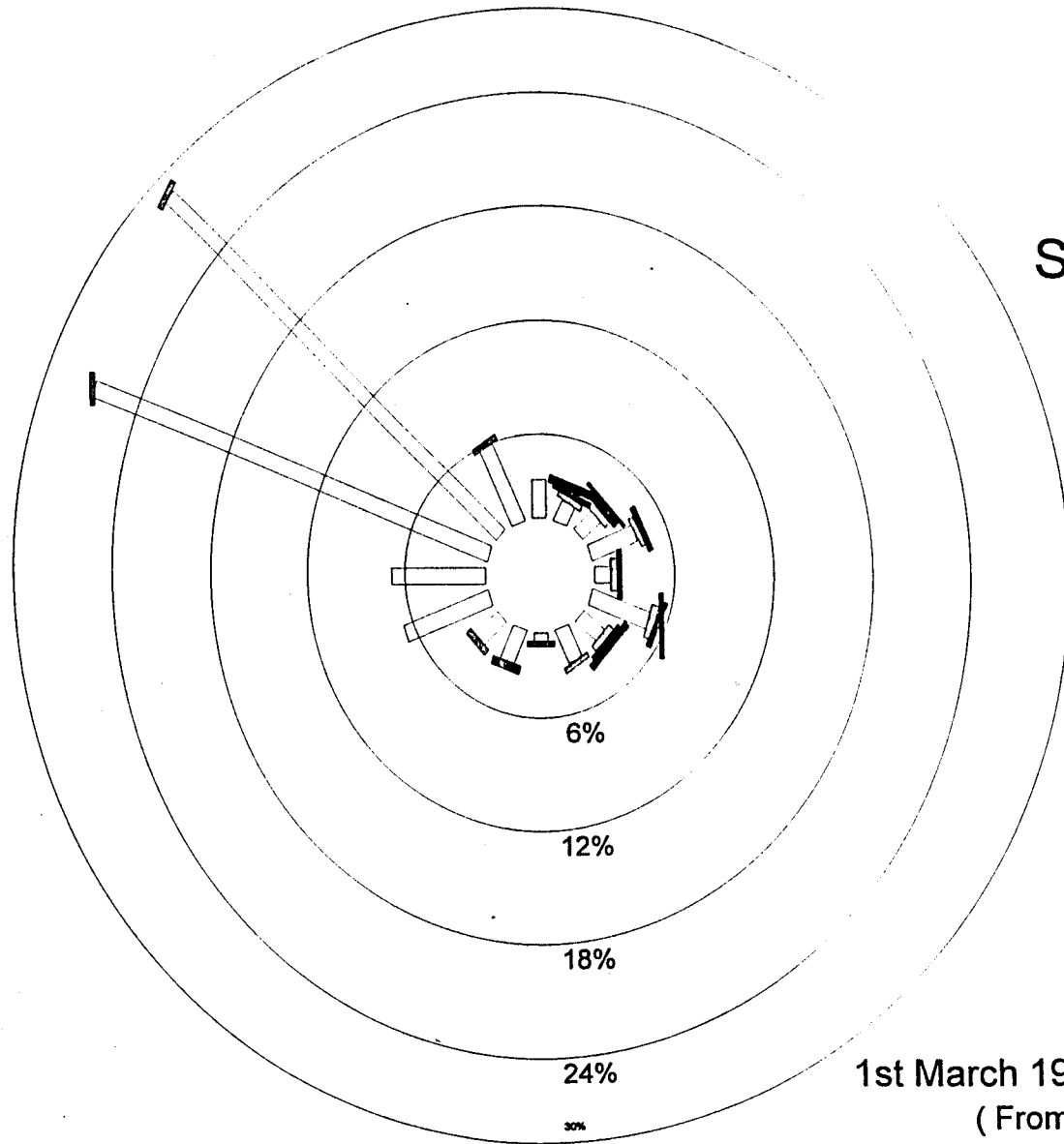
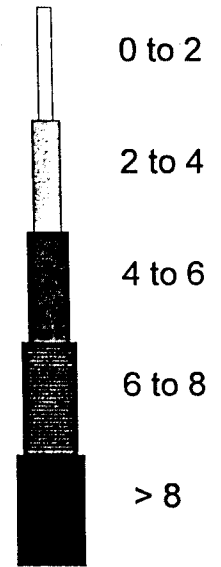


1st February 1997 to 28th February 1997  
( From 1 to 24 Hours )



# Silent Valley NP

Wind speed m/s

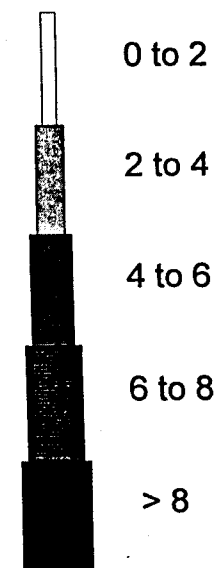
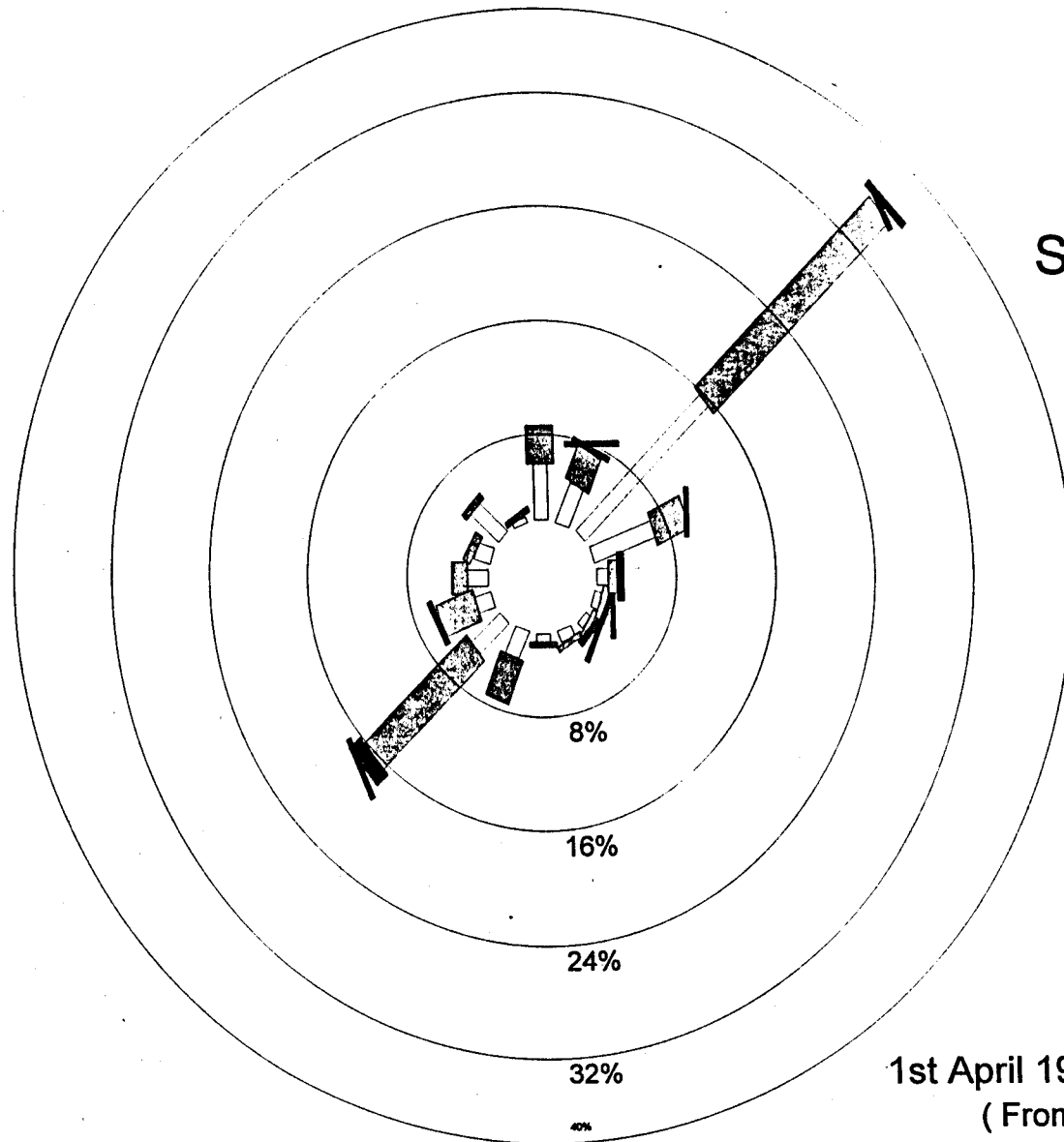


1st March 1997 to 31st March 1997  
( From 1 to 24 Hours )



# Silent Valley NP

Wind speed m/s

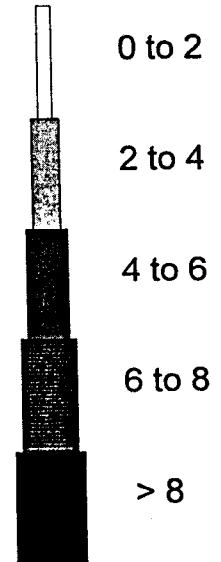
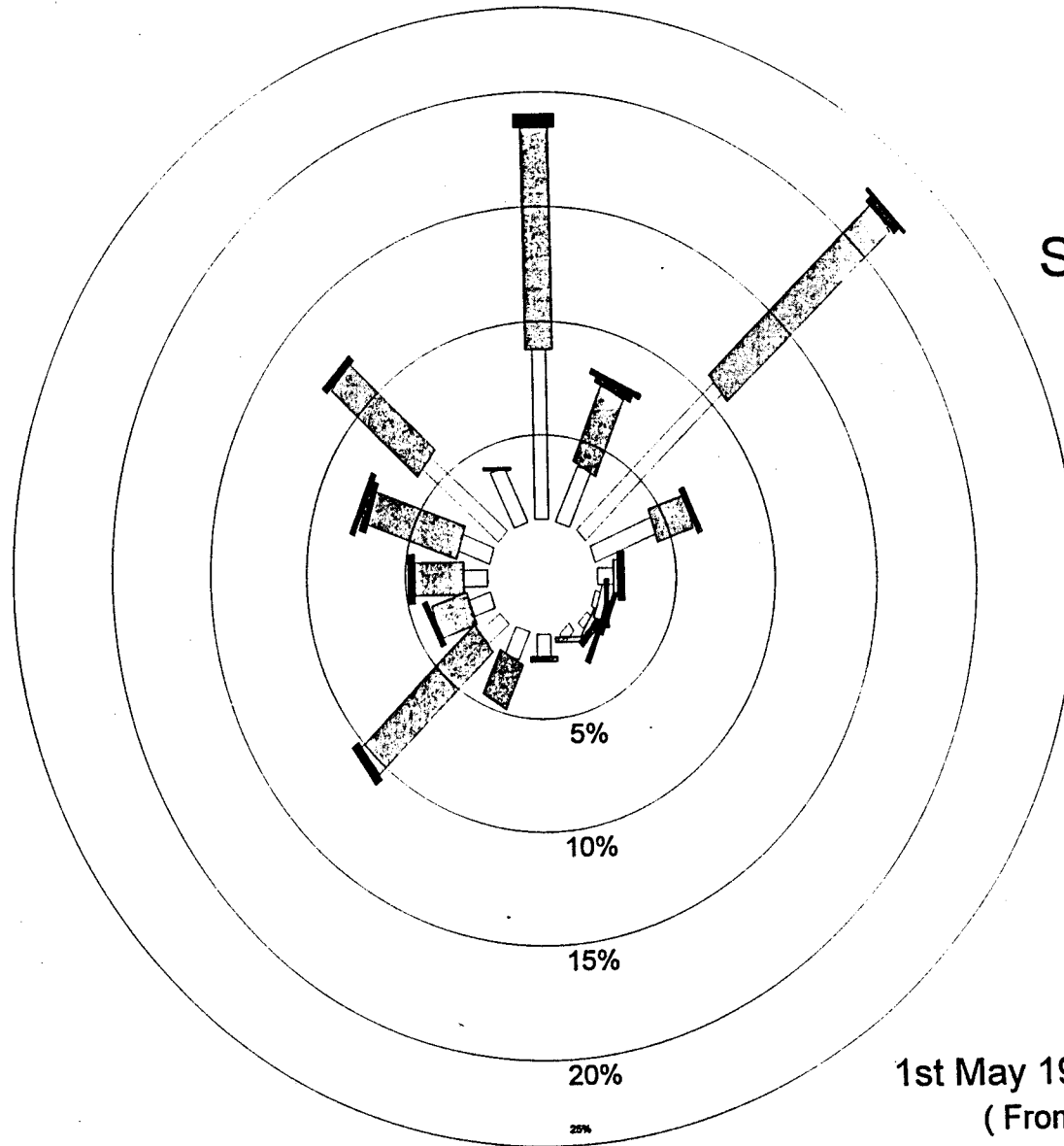


1st April 1997 to 30th April 1997  
( From 1 to 24 Hours )



# Silent Valley NP

Wind speed m/s

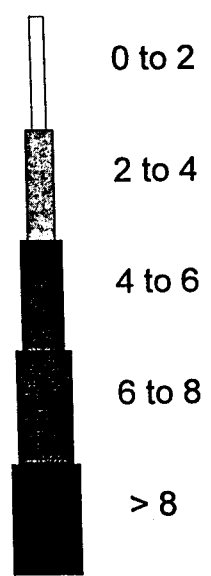
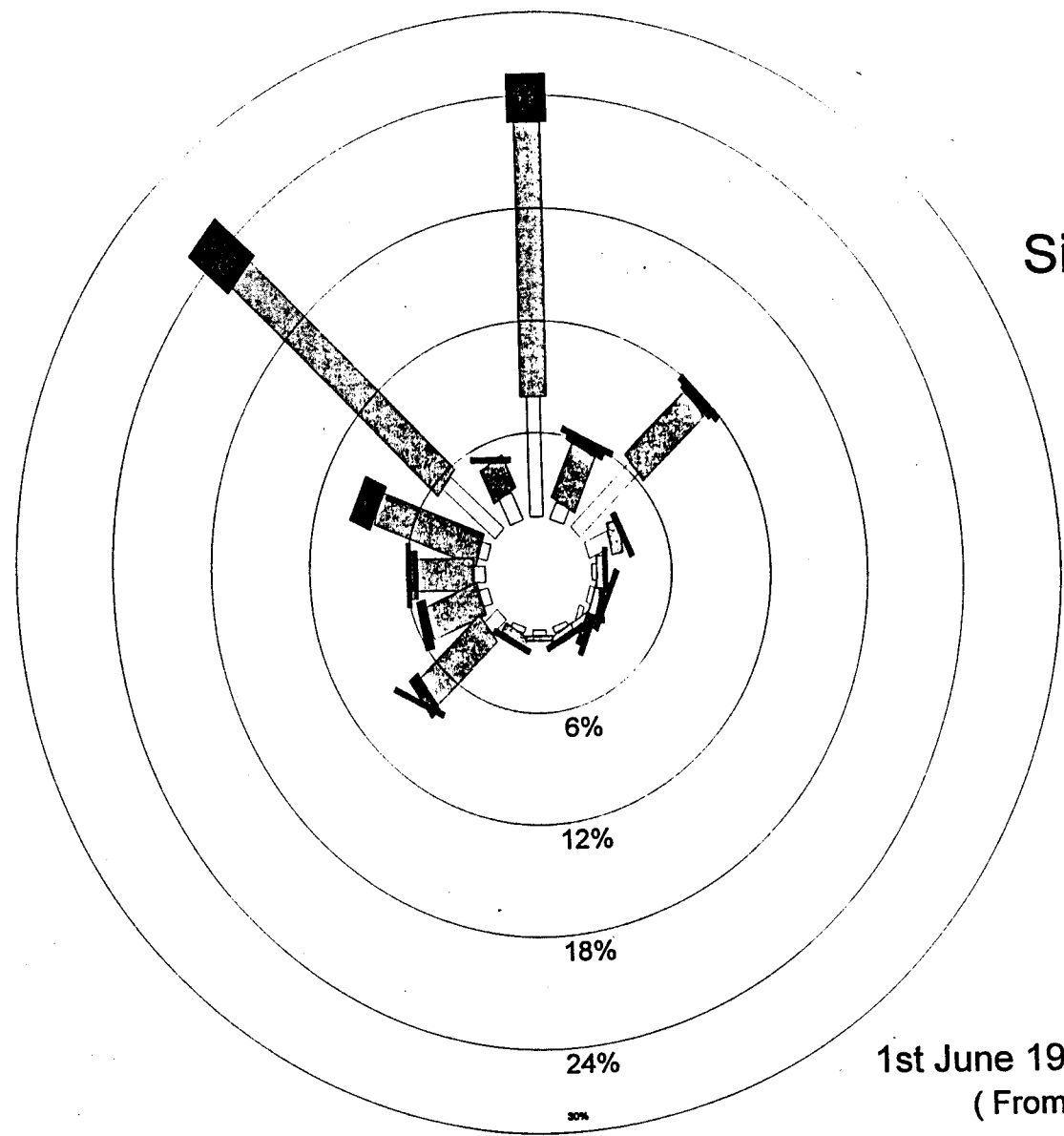


1st May 1997 to 31st May 1997  
(From 1 to 24 Hours)



# Silent Valley NP

Wind speed m/s

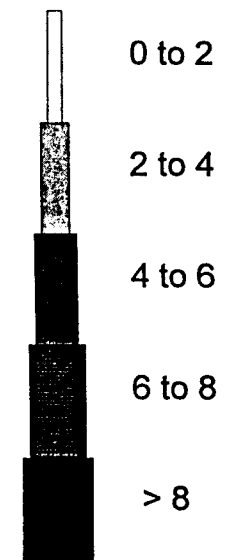
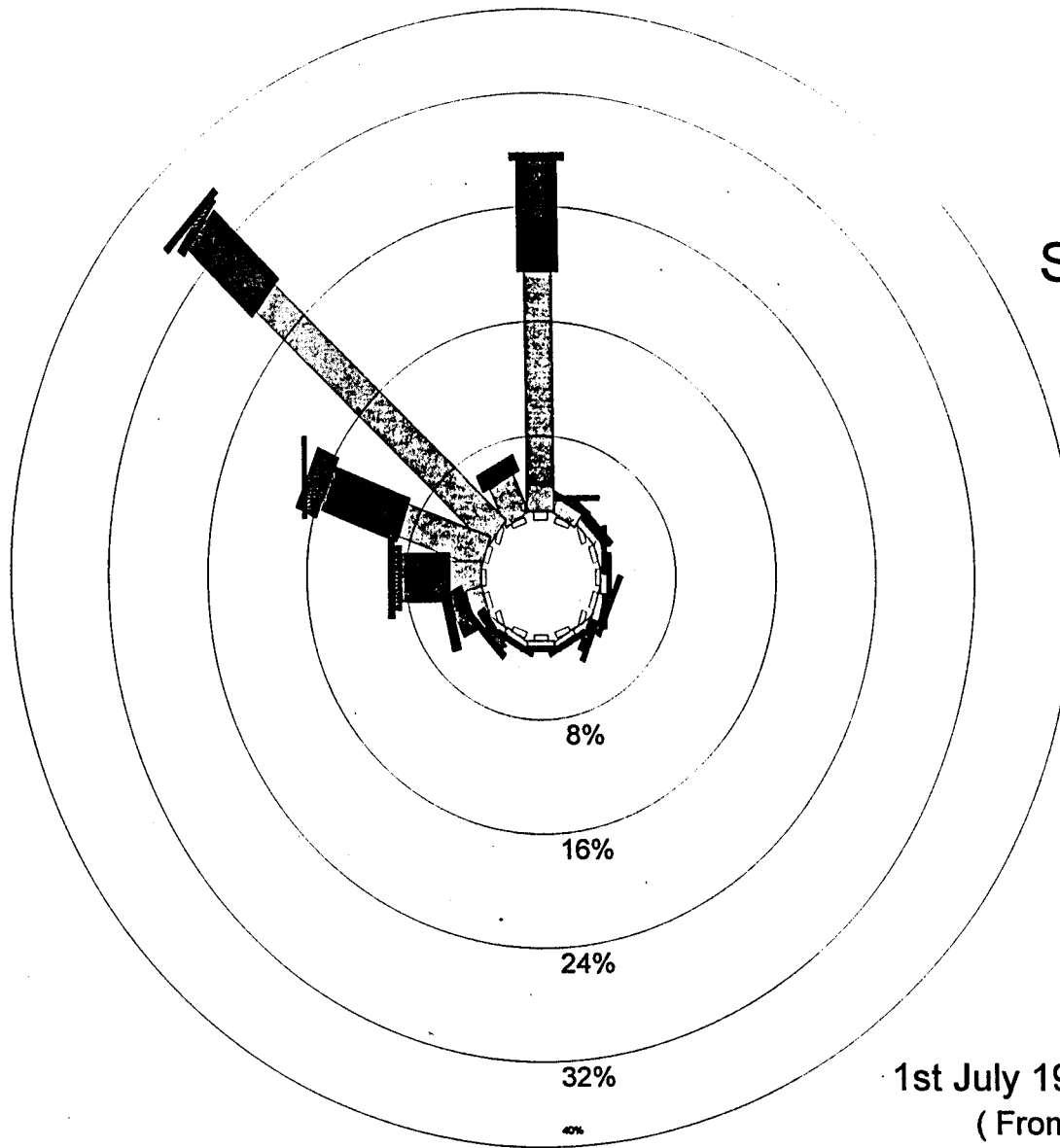


1st June 1997 to 30th June 1997  
( From 1 to 24 Hours )



# Silent Valley NP

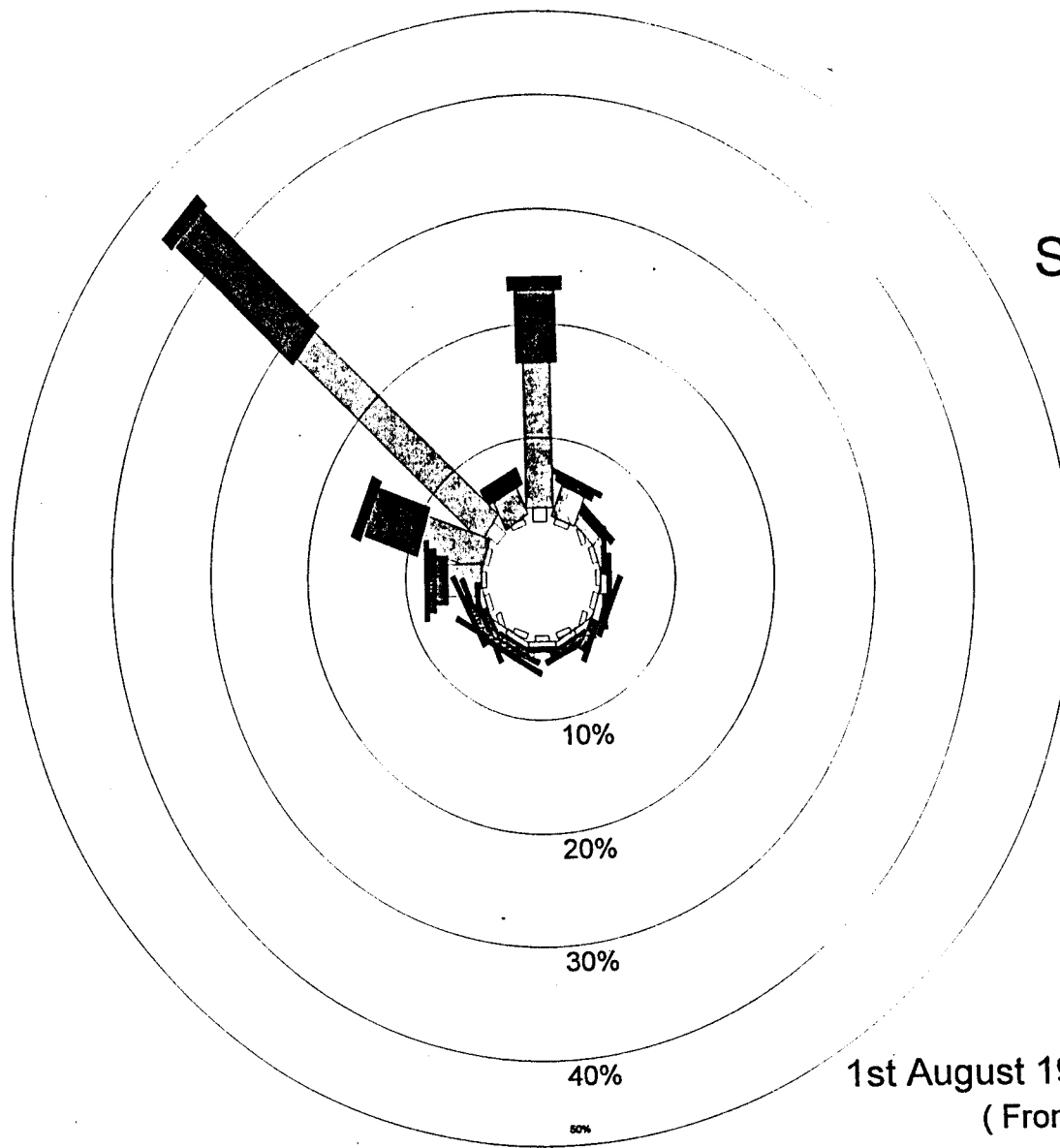
Wind speed m/s



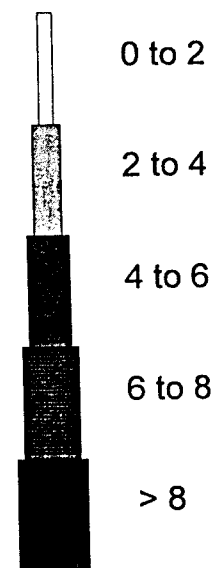
1st July 1997 to 31st July 1997  
( From 1 to 24 Hours )



# Silent Valley NP



Wind speed m/s



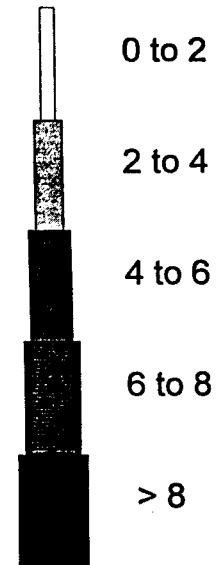
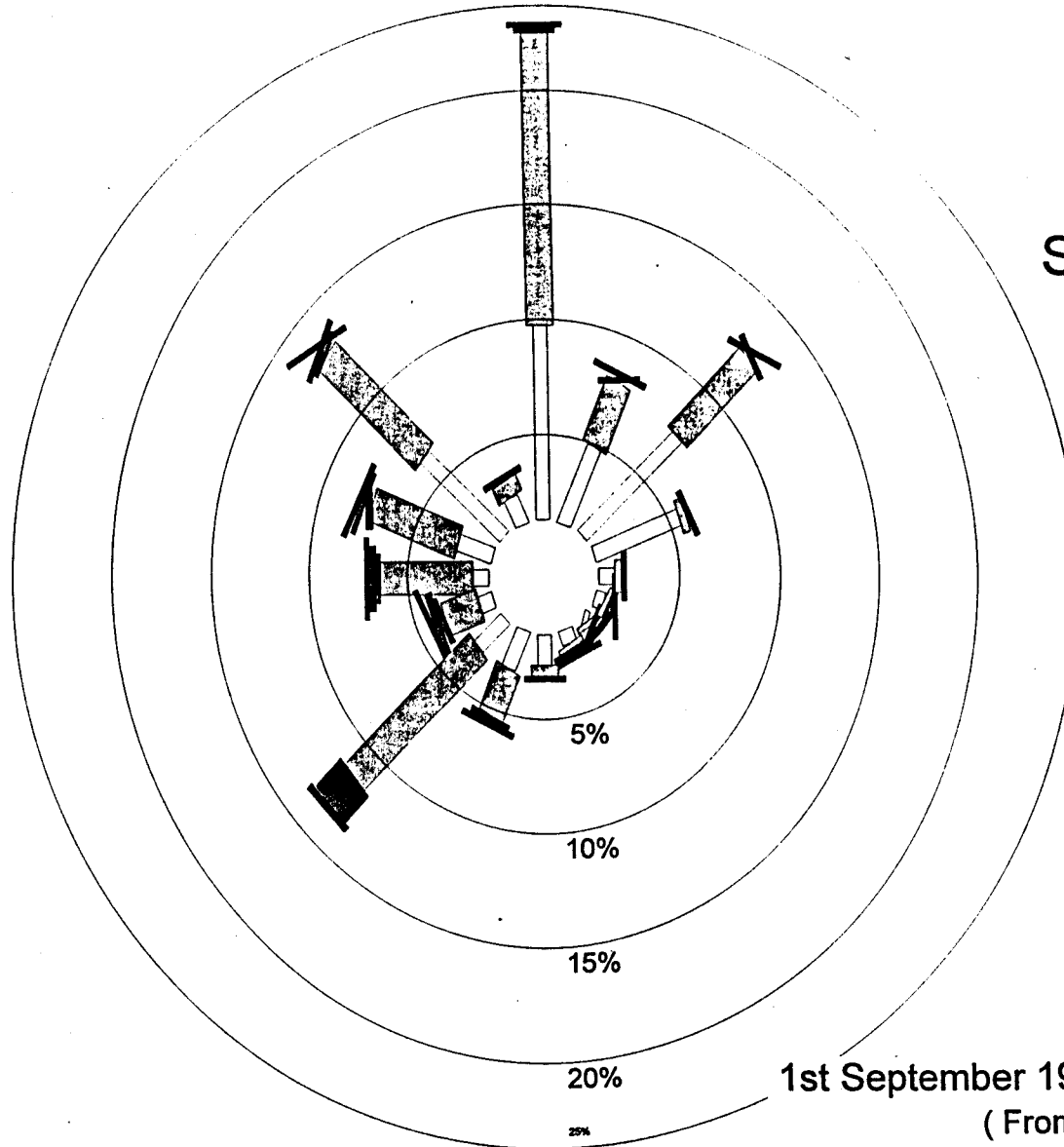
1st August 1997 to 31st August 1997  
( From 1 to 24 Hours )





# Silent Valley NP

Wind speed m/s

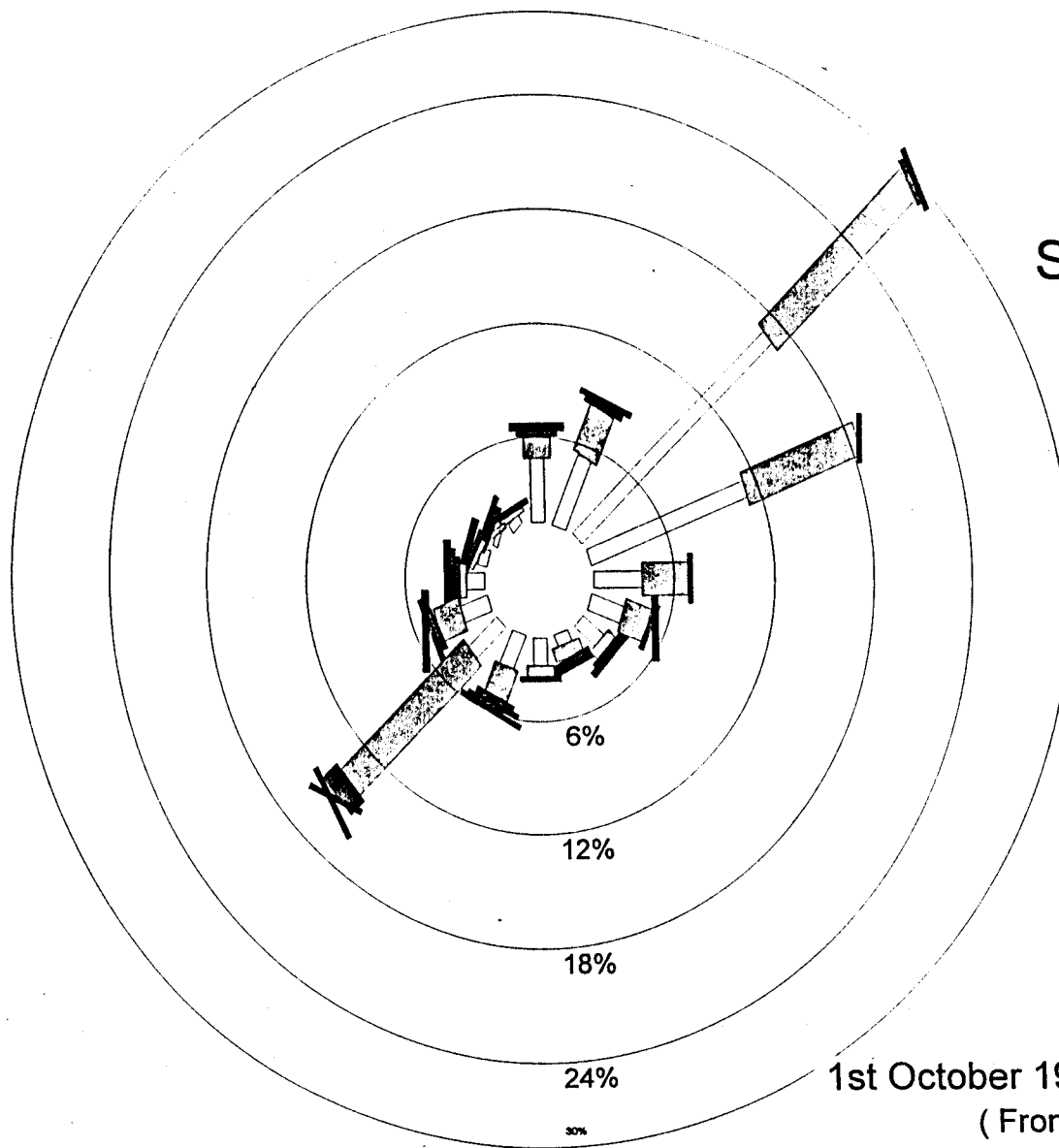


1st September 1997 to 30th September 1997  
(From 1 to 24 Hours)



# Silent Valley NP

Wind speed m/s



0 to 2

2 to 4

4 to 6

6 to 8

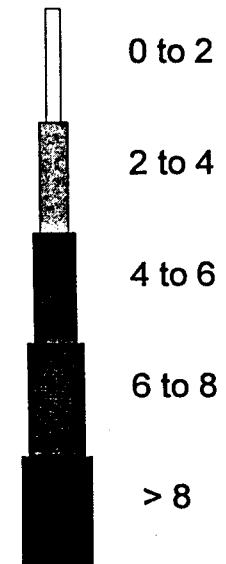
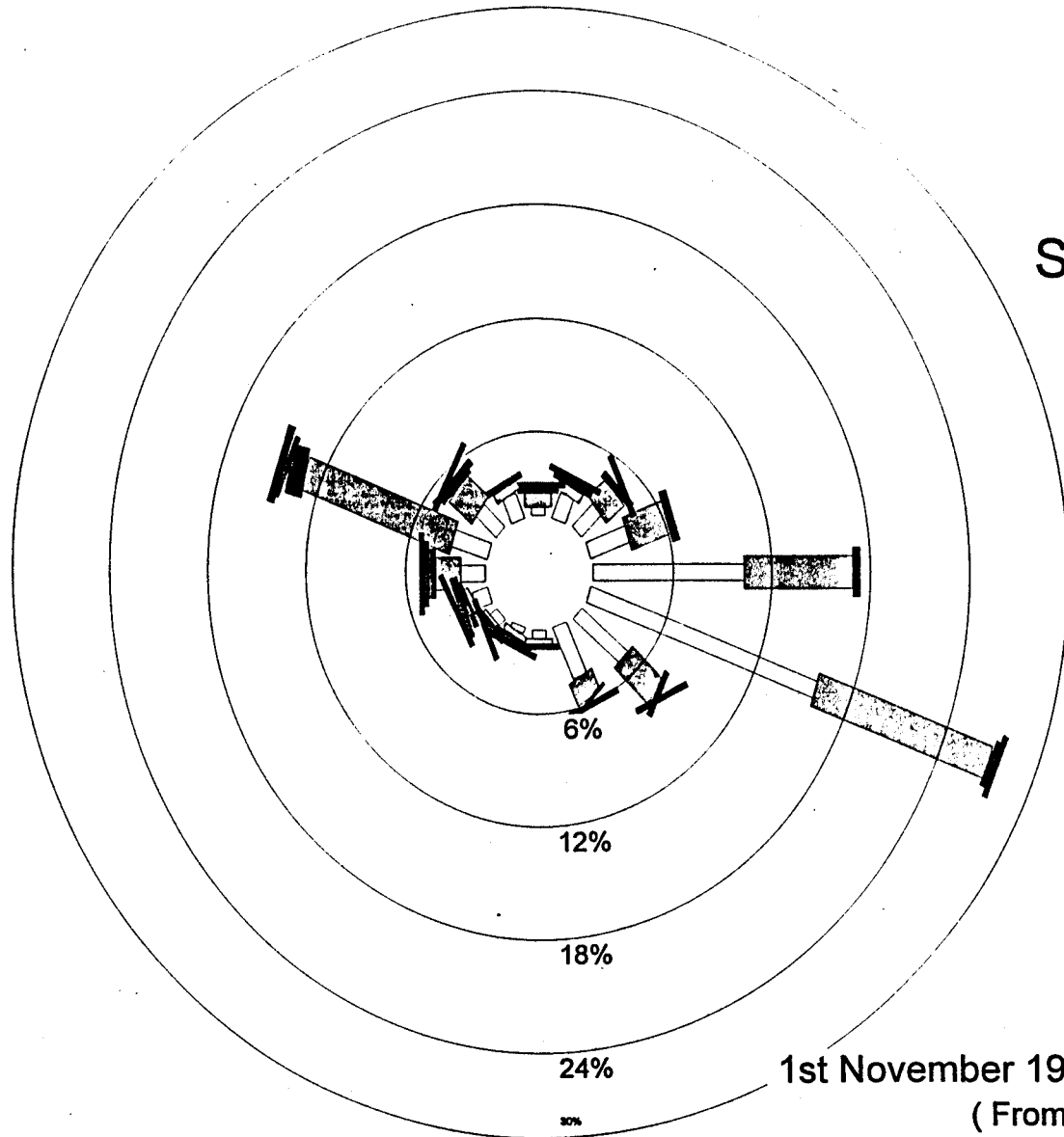
> 8

1st October 1997 to 31st October 1997  
( From 1 to 24 Hours )



# Silent Valley NP

Wind speed m/s

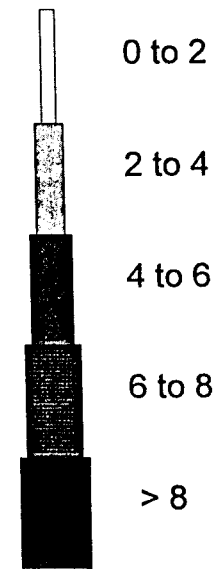
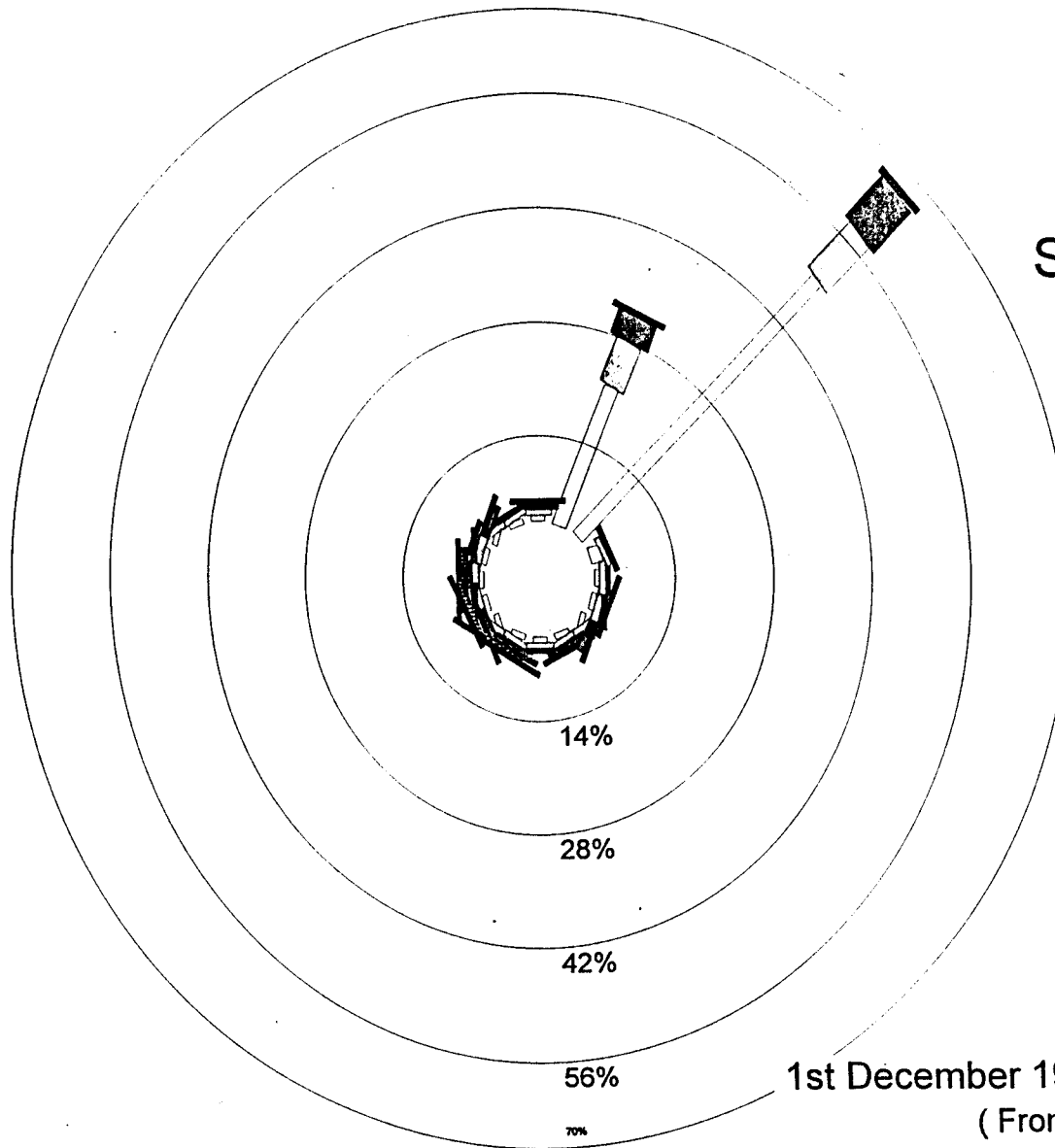


1st November 1997 to 30th November 1997  
( From 1 to 24 Hours )



# Silent Valley NP

Wind speed m/s

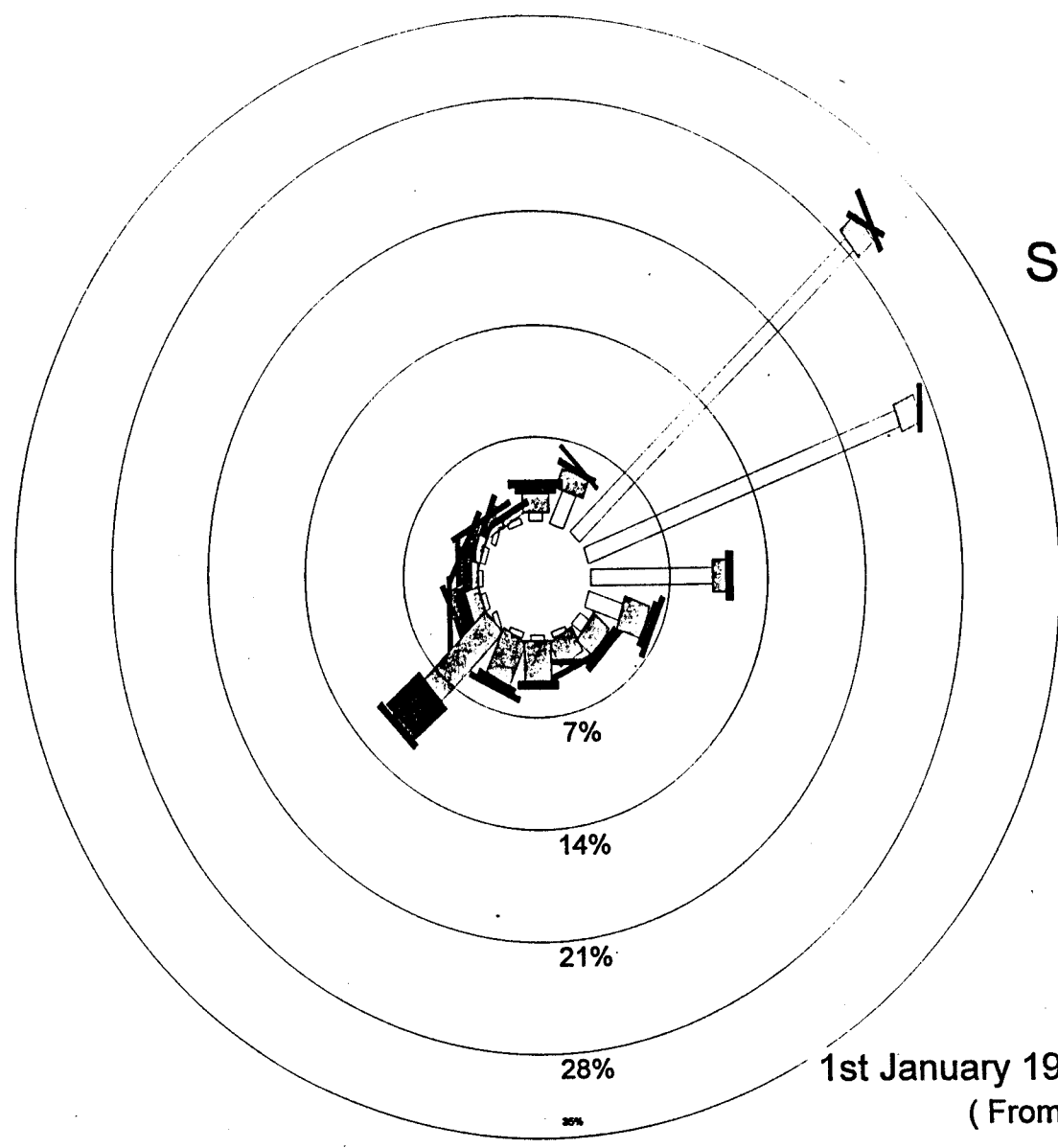
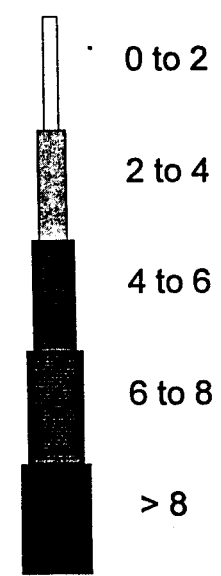


1st December 1997 to 31st December 1997  
( From 1 to 24 Hours )



# Silent Valley NP

Wind speed m/s

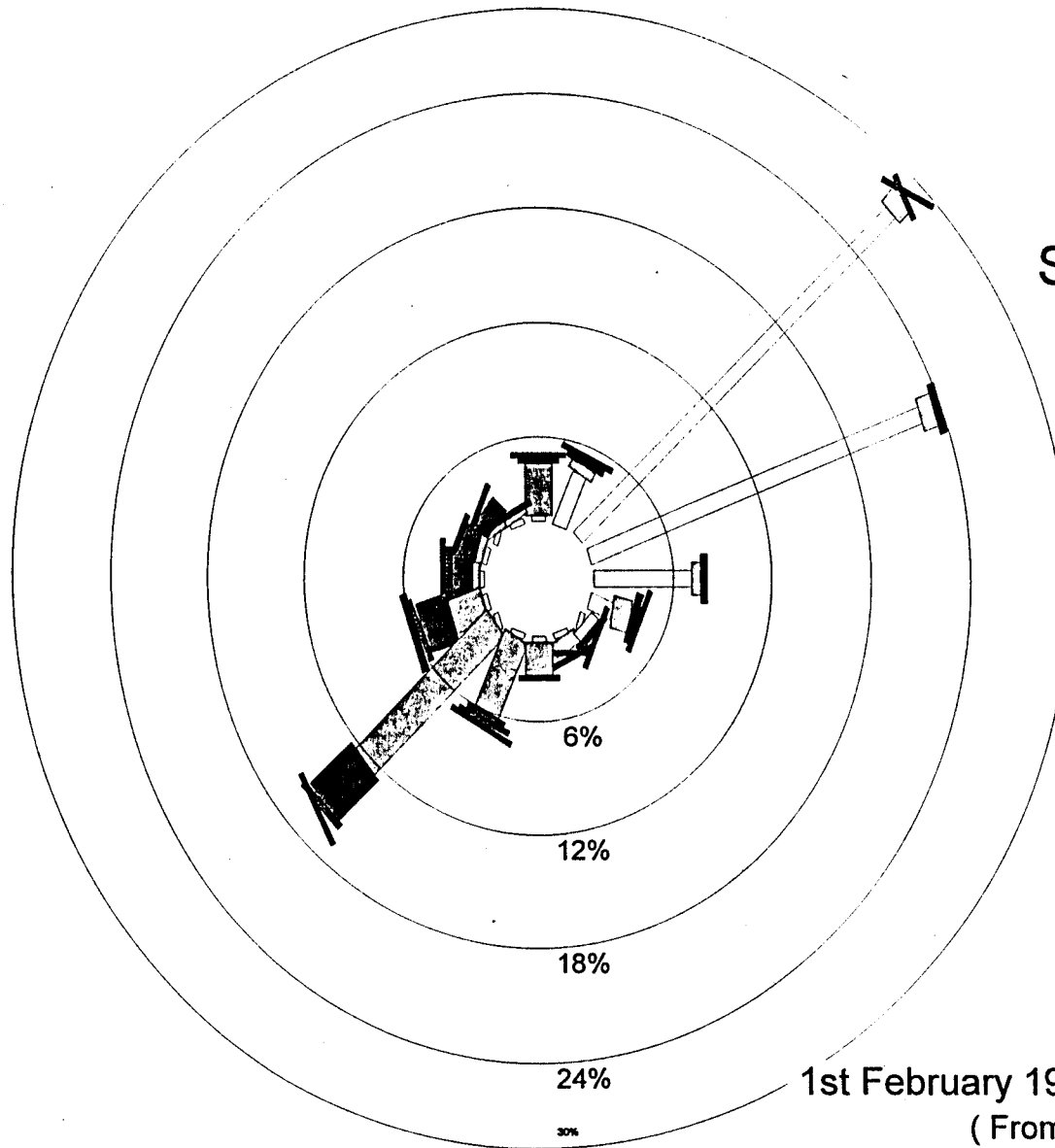


1st January 1998 to 31st January 1998  
( From 1 to 24 Hours )



# Silent Valley NP

Wind speed m/s



0 to 2

2 to 4

4 to 6

6 to 8

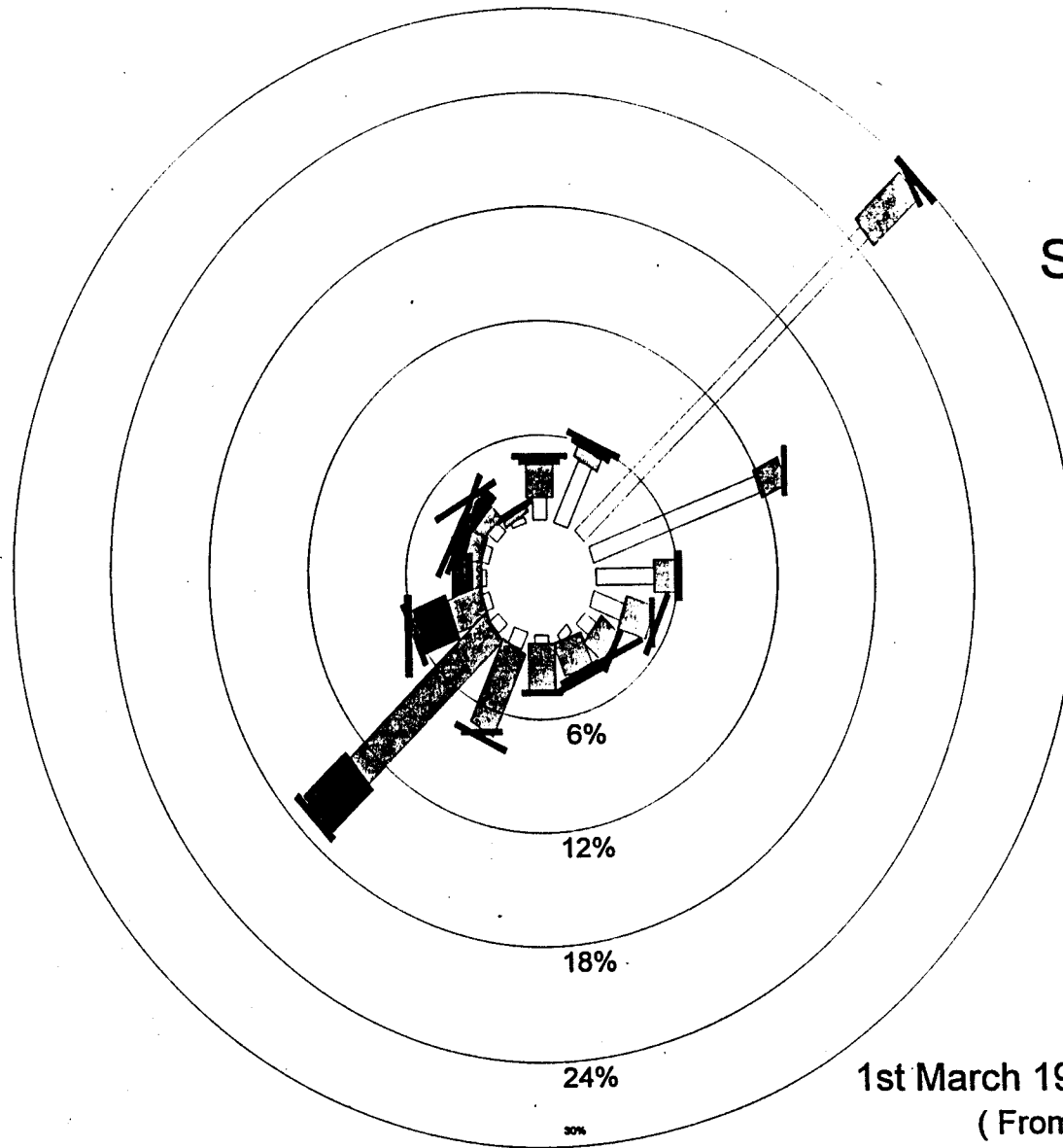
> 8

1st February 1998 to 28th February 1998  
( From 1 to 24 Hours )



# Silent Valley NP

Wind speed m/s



0 to 2

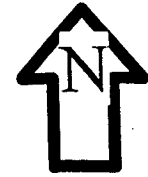
2 to 4

4 to 6

6 to 8

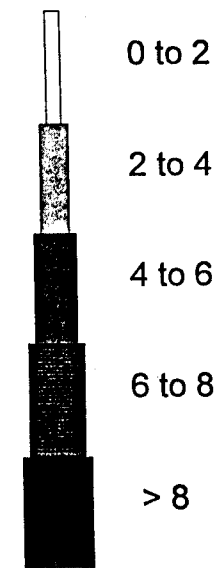
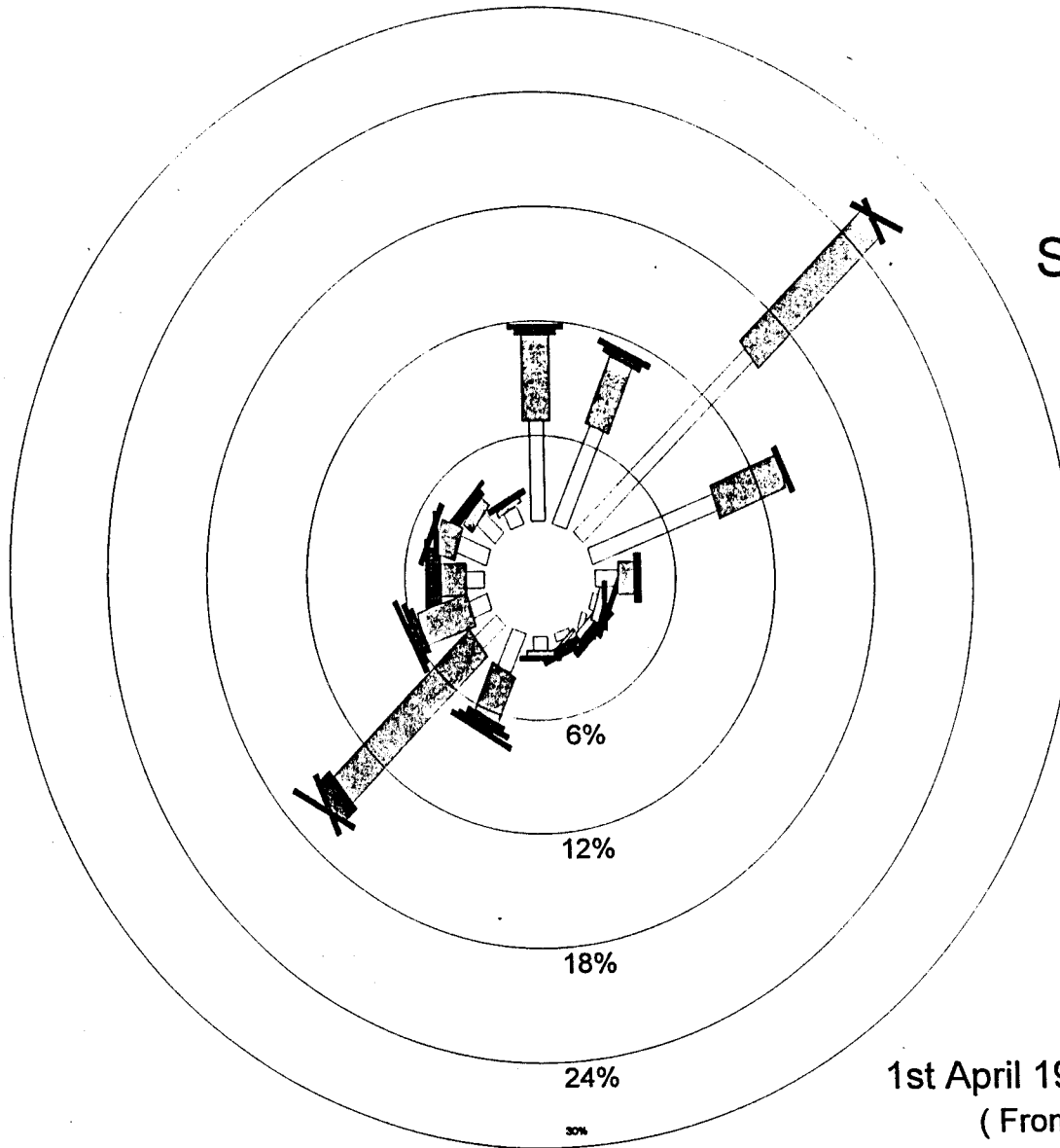
> 8

1st March 1998 to 31st March 1998  
( From 1 to 24 Hours )



# Silent Valley NP

Wind speed m/s



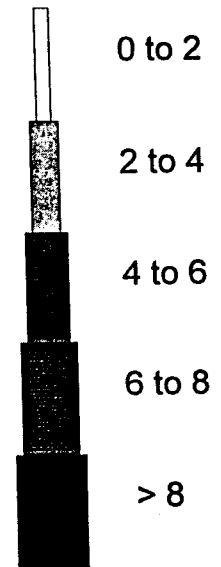
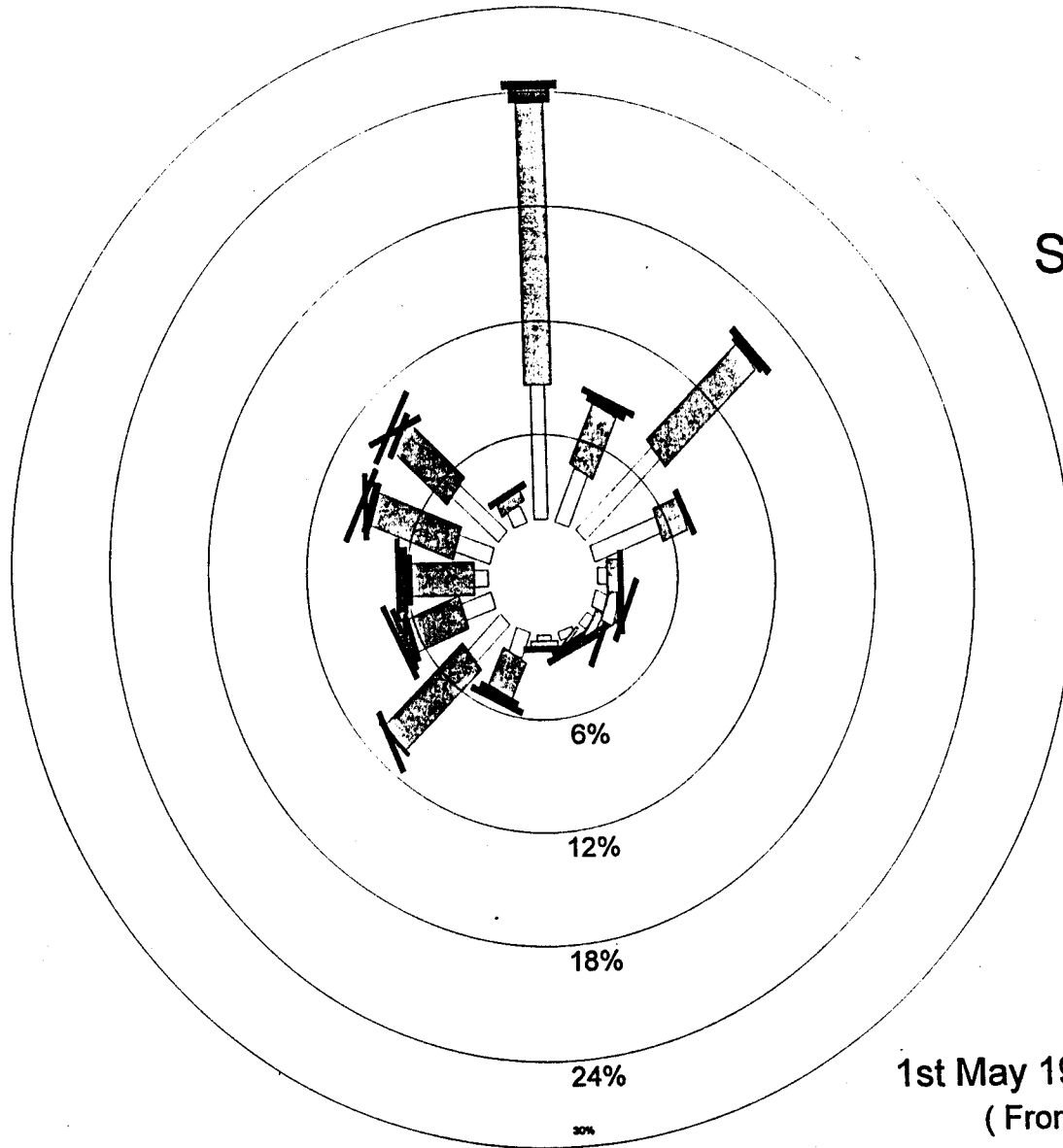
1st April 1998 to 30th April 1998  
( From 1 to 24 Hours )





# Silent Valley NP

Wind speed m/s

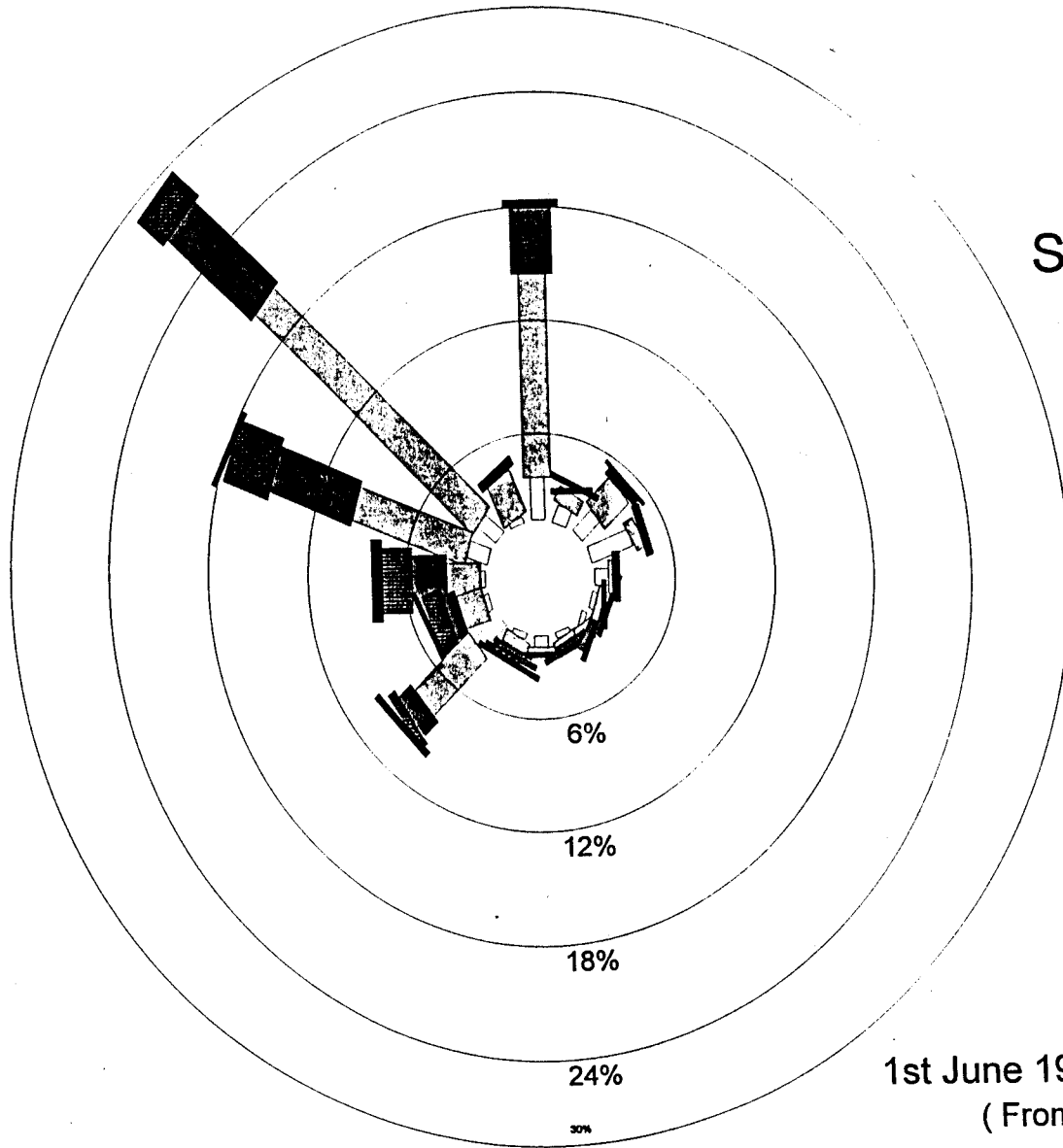


1st May 1998 to 31st May 1998  
( From 1 to 24 Hours )



# Silent Valley NP

Wind speed m/s



0 to 2

2 to 4

4 to 6

6 to 8

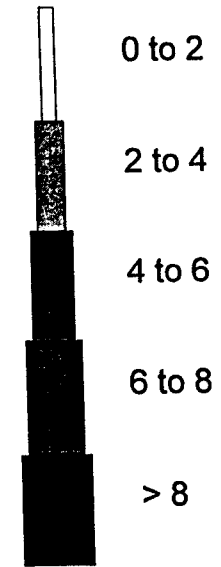
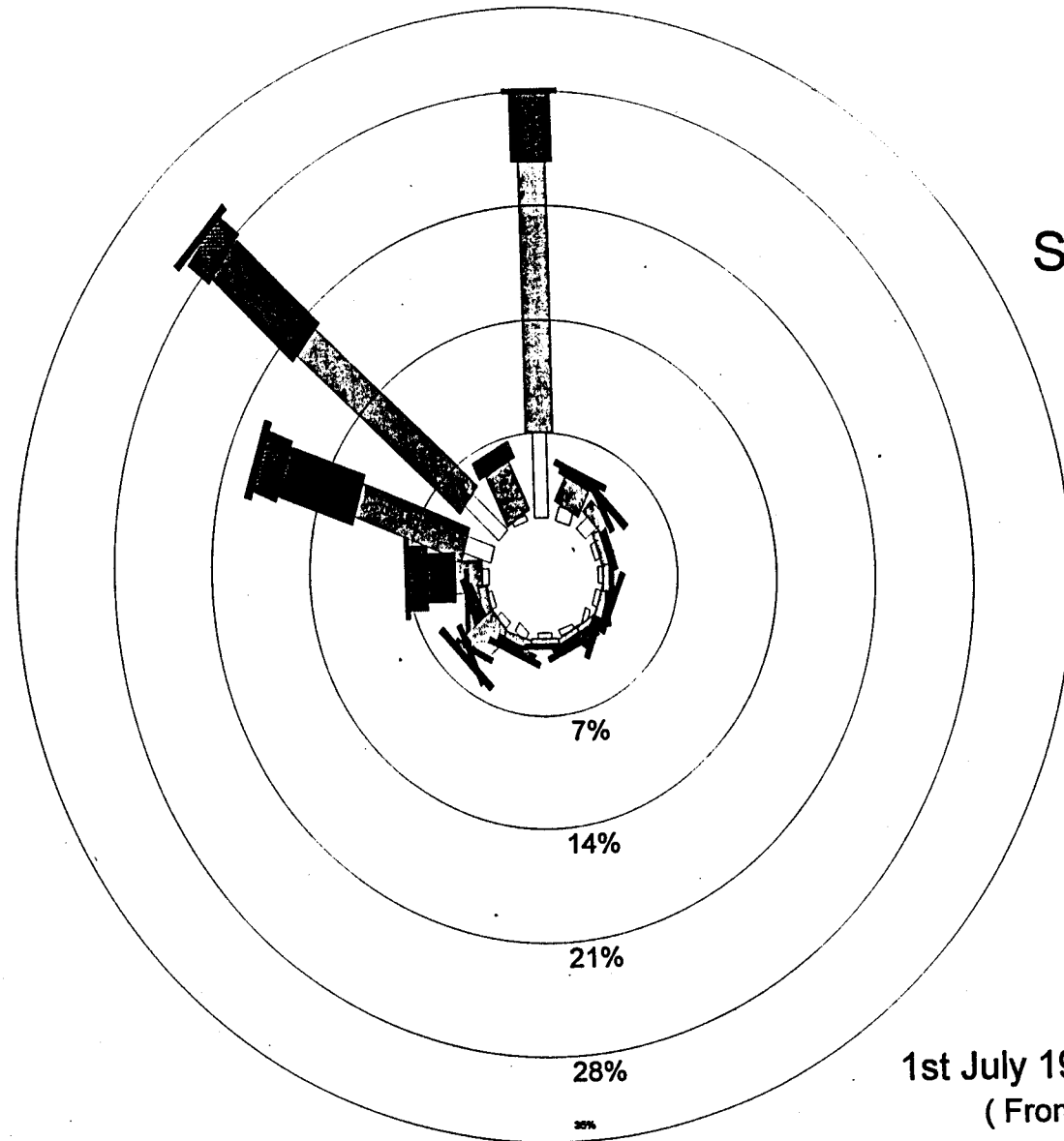
> 8

1st June 1998 to 30th June 1998  
( From 1 to 24 Hours )



# Silent Valley NP

Wind speed m/s

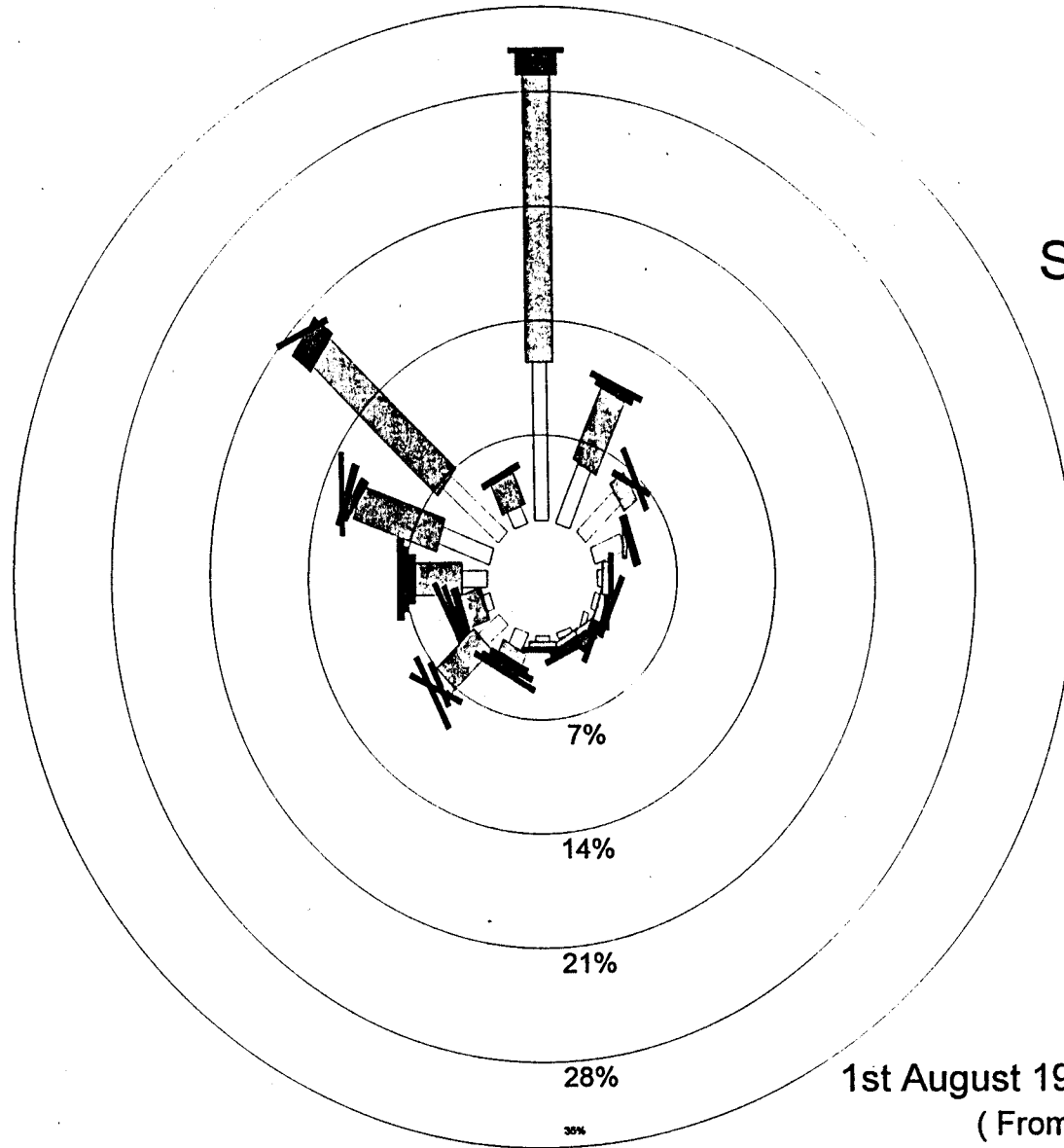


1st July 1998 to 31st July 1998  
( From 1 to 24 Hours )



# Silent Valley NP

Wind speed m/s



0 to 2

2 to 4

4 to 6

6 to 8

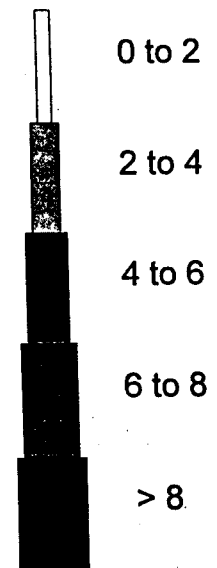
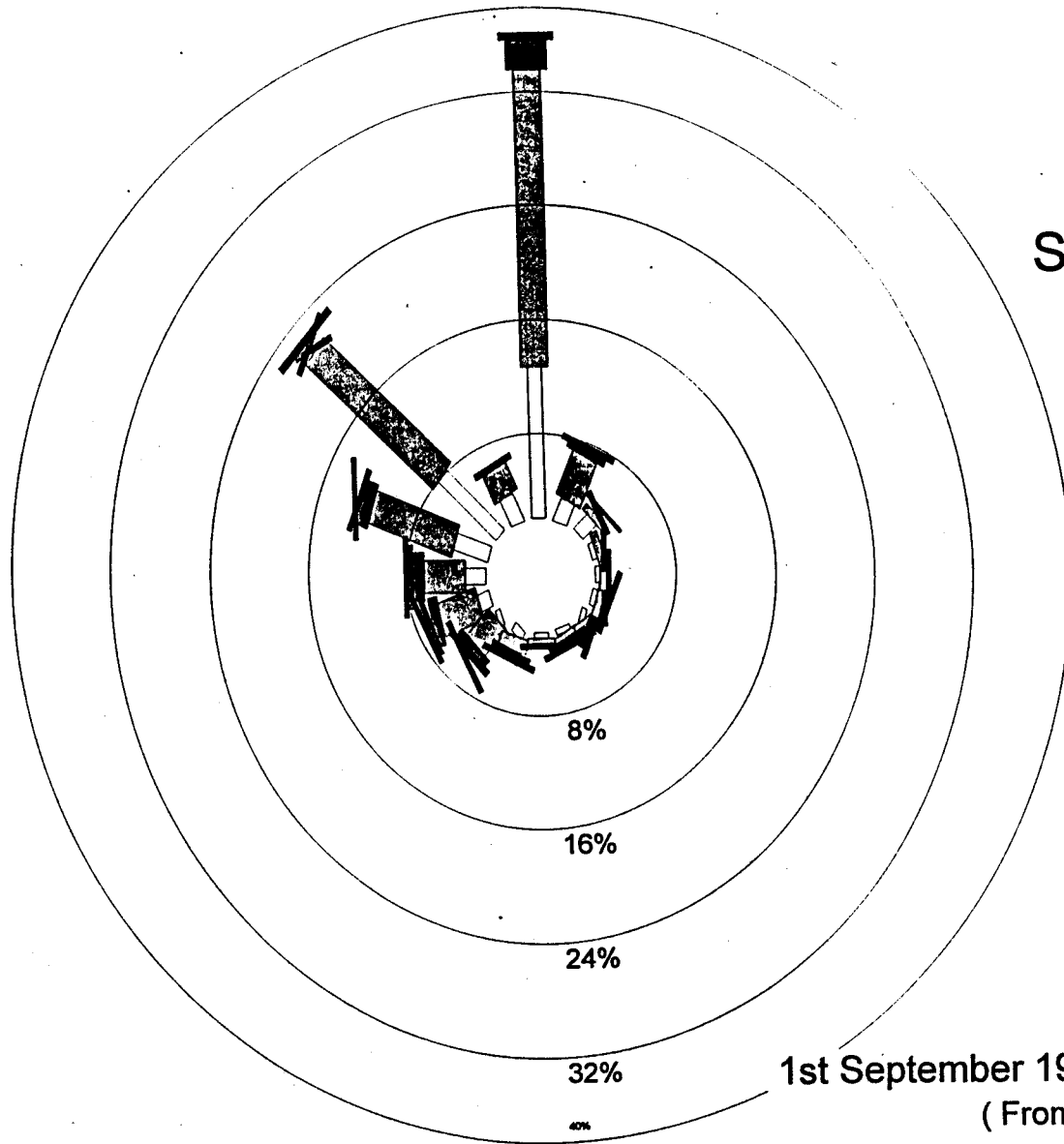
> 8

1st August 1998 to 31st August 1998  
( From 1 to 24 Hours )



# Silent Valley NP

Wind speed m/s

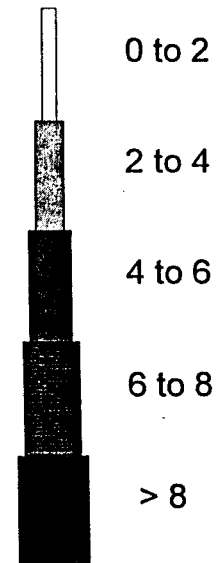
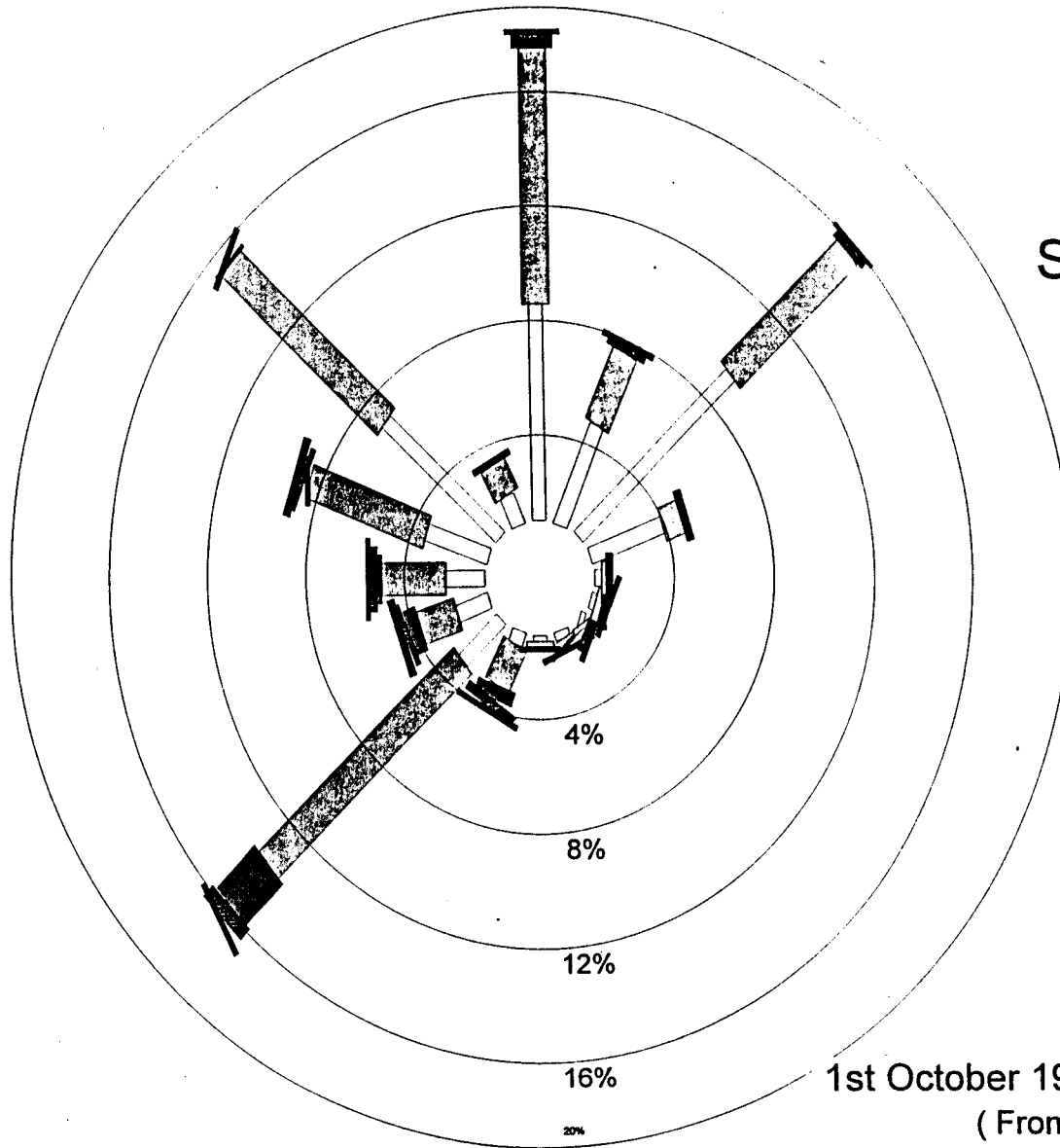


1st September 1998 to 30th September 1998  
( From 1 to 24 Hours )



# Silent Valley NP

Wind speed m/s

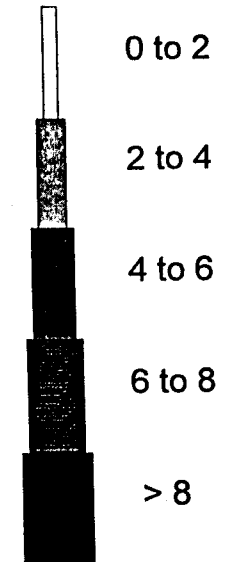
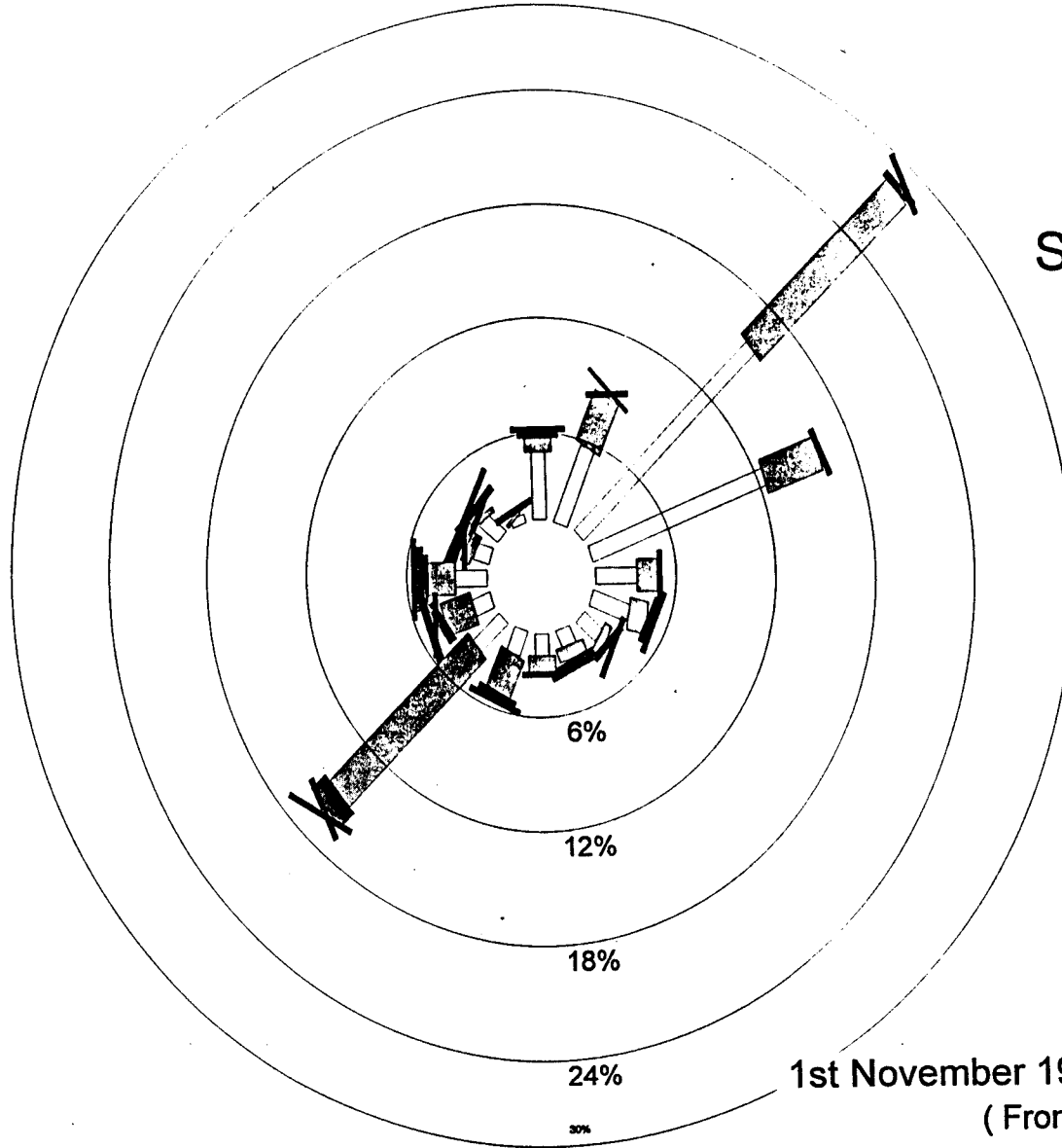


1st October 1998 to 31st October 1998  
(From 1 to 24 Hours)



# Silent Valley NP

Wind speed m/s

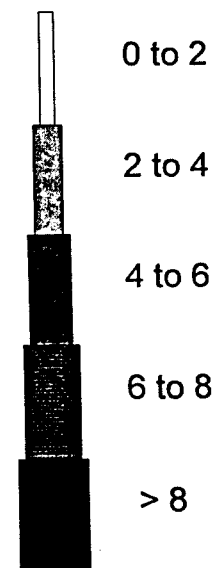
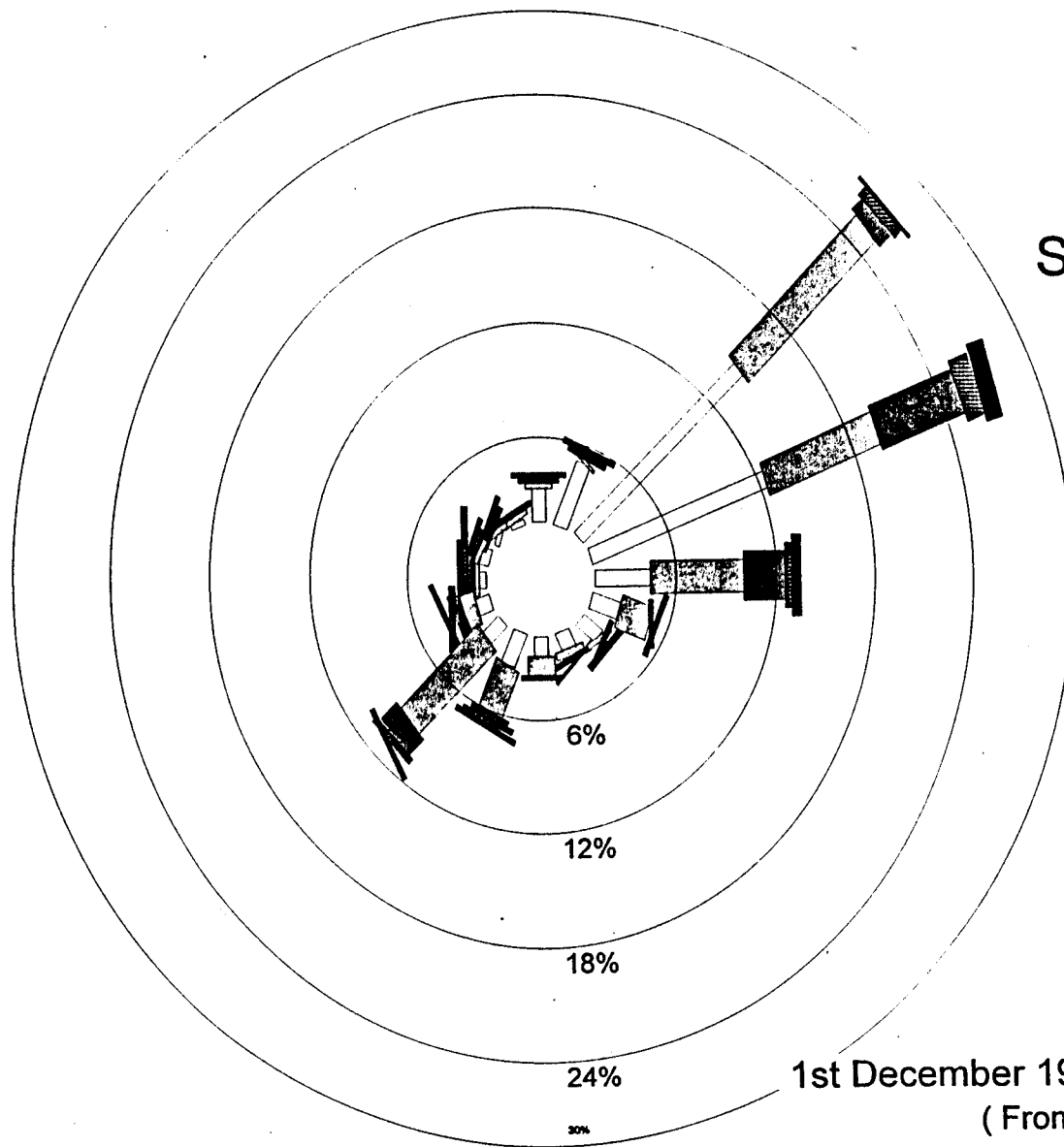


1st November 1998 to 30th November 1998  
( From 1 to 24 Hours )



Silent Valley NP

Wind speed m/s



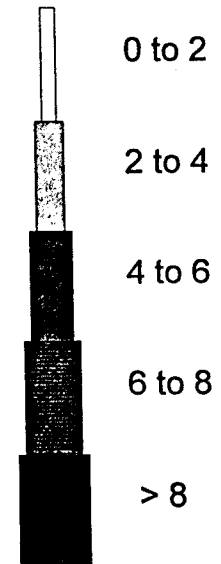
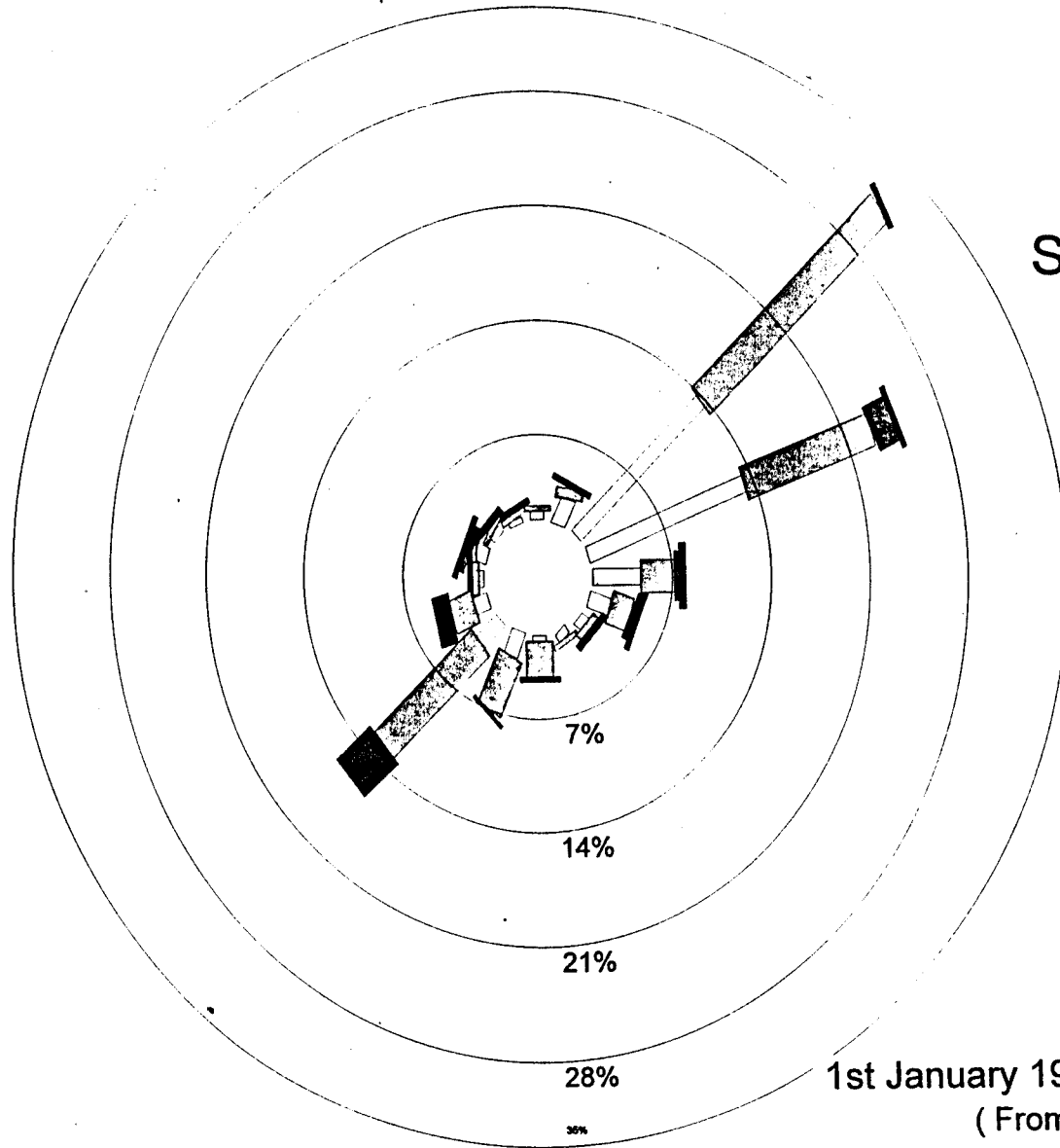
1st December 1998 to 31st December 1998  
( From 1 to 24 Hours )





# Silent Valley NP

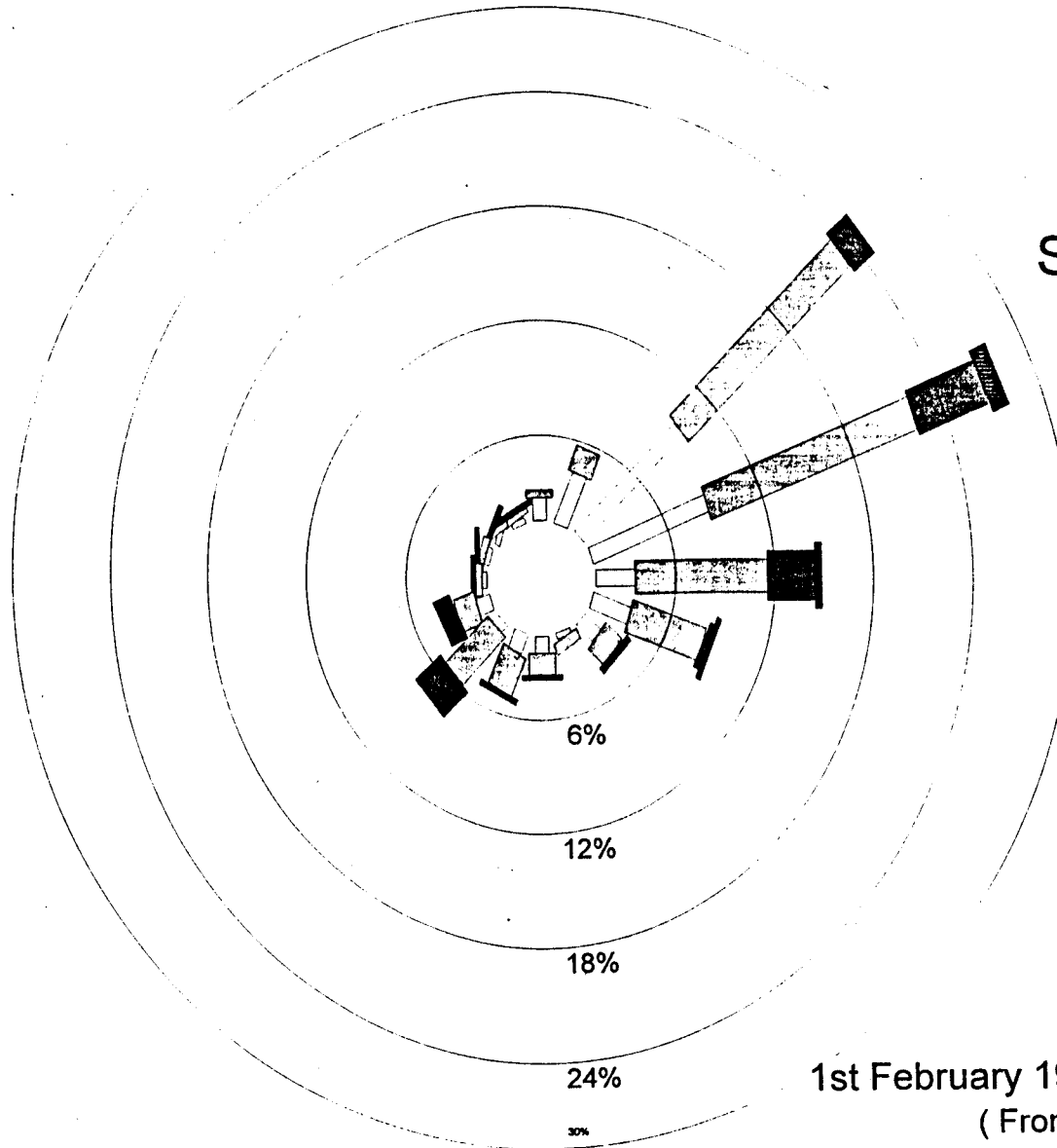
Wind speed m/s



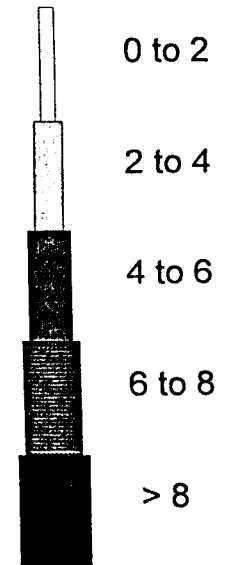
1st January 1999 to 31st January 1999  
(From 1 to 24 Hours)



# Silent Valley NP



Wind speed m/s

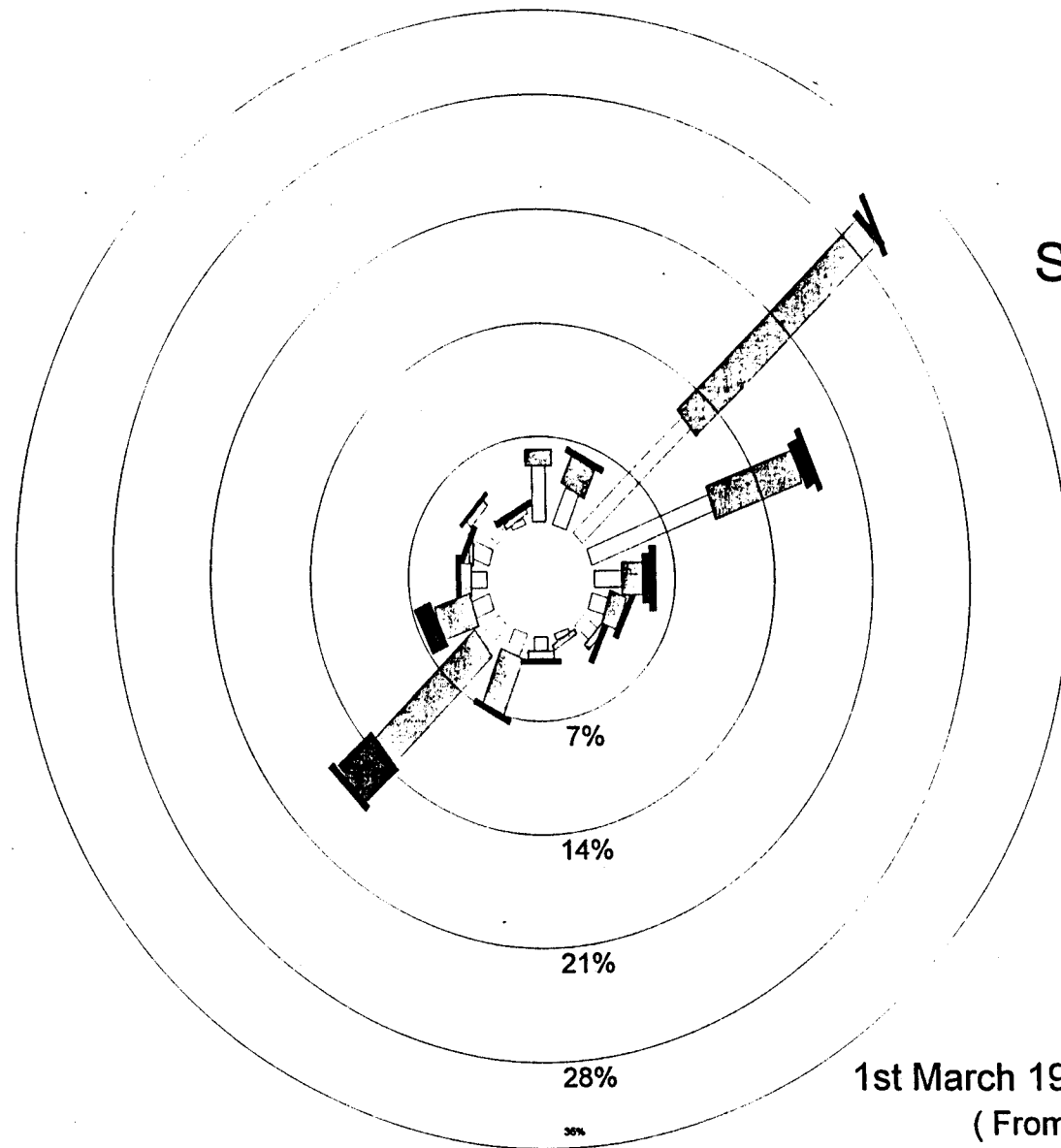


1st February 1999 to 28th February 1999  
( From 1 to 24 Hours )



# Silent Valley NP

Wind speed m/s



0 to 2

2 to 4

4 to 6

6 to 8

> 8

1st March 1999 to 31st March 1999  
( From 1 to 24 Hours )

## 4. Eravikulam National Park

KERALA FOREST RESEARCH INSTITUTE. DAILY FOREST METEOROLOGICAL DATA

Station 4. Eravikulam NP 1st September 1997 to 30th September 1997

Day	Wind speed			Temperature			Humidity			Rain mm	Solar MJ/m2	Soil(15cm) temp oC			Soil(30cm) temp oC		
	m/s			oC			%										
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Total	Total	Min	Avg	Max	Min	Avg	Max
1 (244)	0.5	1.4	2.4	15.1	16.7	17.9	83.9	94.4	99.3	0.0	1.6	19.3	19.8	20.5	18.2	18.3	18.7
2 (245)	0.4	2.1	3.6	15.3	16.7	17.8	59.1	82.9	100.0	0.2	23.3	17.4	18.6	19.8	17.8	18.1	18.4
3 (246)	0.5	2.3	3.3	15.0	17.0	19.6	60.8	84.2	99.7	0.0	20.1	17.7	18.8	19.8	18.1	18.3	18.6
4 (247)	0.2	1.1	2.6	14.1	16.9	19.4	72.2	90.0	100.0	0.0	24.0	17.8	19.3	20.9	18.2	18.5	19.0
5 (248)	0.3	1.1	2.5	14.6	16.5	18.5	90.8	97.4	100.0	2.8	17.1	19.1	20.0	20.8	18.9	19.1	19.4
6 (249)	0.4	1.5	2.7	15.0	16.1	17.6	92.7	98.0	100.0	4.4	13.9	18.9	19.7	20.5	19.1	19.3	19.4
7 (250)	0.4	1.1	2.5	14.2	15.9	17.0	93.2	98.8	100.0	4.8	11.3	18.4	19.2	19.7	18.9	19.1	19.3
8 (251)	0.5	1.0	1.7	15.3	16.2	17.8	87.2	97.0	100.0	2.0	7.6	18.3	18.9	19.4	18.7	18.9	19.1
9 (252)	0.4	0.9	2.3	15.5	16.9	19.1	83.2	94.9	100.0	12.0	11.8	18.2	18.9	19.7	18.6	18.8	19.0
10 (253)	0.3	1.0	2.2	15.7	16.9	18.7	85.8	97.0	100.0	10.2	12.7	18.4	19.2	20.0	18.7	18.9	19.1
11 (254)	0.5	1.3	2.7	15.2	16.7	18.4	82.7	93.4	100.0	15.6	18.4	18.1	19.3	20.4	18.8	19.0	19.3
12 (255)	0.5	1.4	2.9	15.3	16.1	17.7	86.3	97.6	100.0	7.6	12.5	18.5	19.3	20.0	19.0	19.2	19.4
13 (256)	0.2	1.0	2.4	15.1	17.0	19.1	71.7	89.4	100.0	1.0	17.5	18.2	19.3	20.3	18.9	19.1	19.4
14 (257)	0.2	1.2	2.2	15.5	16.7	18.2	88.7	97.6	100.0	3.0	11.7	18.9	19.6	20.1	19.2	19.3	19.5
15 (258)	0.4	1.1	2.2	15.2	16.6	18.5	82.3	96.1	100.0	9.8	11.1	18.7	19.5	20.0	19.1	19.3	19.5
16 (259)	0.5	1.6	3.1	14.6	16.2	18.6	86.3	96.8	100.0	28.2	21.1	18.2	19.3	20.7	19.0	19.2	19.5
17 (260)	0.3	1.4	2.6	14.7	16.7	19.1	69.5	91.1	100.0	9.4	14.6	18.5	19.6	20.3	19.2	19.4	19.6
18 (261)	0.6	1.8	2.9	14.8	15.5	16.9	76.5	97.1	100.0	27.4	6.8	18.3	18.9	19.7	19.0	19.3	19.6
19 (262)	1.6	2.2	3.0	16.0	17.0	18.0	71.8	87.4	99.5	12.6	14.2	17.5	18.4	19.4	18.5	18.8	19.1
20 (263)	1.4	2.0	2.7	15.5	16.0	17.0	94.6	99.3	100.0	28.2	7.2	18.1	18.7	19.2	18.7	18.9	19.0
21 (264)	1.2	2.0	2.7	14.8	15.7	16.5	85.6	97.6	100.0	14.4	7.4	17.8	18.2	18.6	18.5	18.7	19.0
22 (265)	1.0	2.4	3.4	15.1	15.8	16.5	78.1	98.2	100.0	19.6	5.1	17.4	17.9	18.3	18.3	18.4	18.6
23 (266)	2.8	3.4	4.1	15.0	15.7	16.7	96.8	99.7	100.0	31.2	8.3	17.2	17.6	18.1	18.0	18.2	18.4
24 (267)	2.3	3.1	3.7	14.7	15.5	16.2	98.4	99.8	100.0	15.2	5.4	17.2	17.5	17.9	17.9	18.1	18.2
25 (268)	1.7	2.7	3.5	15.1	15.9	17.3	57.8	88.6	100.0	0.0	17.9	17.1	17.9	19.0	17.8	18.0	18.4
26 (269)	1.2	2.4	3.2	14.7	16.0	17.4	73.1	89.2	100.0	0.2	20.0	17.0	18.2	19.6	17.9	18.2	18.6
27 (270)	0.7	1.8	3.6	14.4	16.2	17.9	76.6	87.8	100.0	0.0	21.8	17.5	18.7	20.1	18.2	18.5	19.0
28 (271)	0.5	1.8	3.7	13.9	16.4	18.2	66.7	81.2	97.2	0.0	25.1	17.9	19.4	21.0	18.6	18.9	19.4
29 (272)	0.2	1.3	2.3	14.9	16.7	18.3	66.5	81.9	98.8	0.0	24.6	18.2	19.9	21.6	18.9	19.3	19.8
30 (273)	0.2	1.1	2.3	14.6	16.2	18.4	86.3	96.2	100.0	1.2	16.6	19.0	20.6	21.5	19.6	19.9	20.2
	0.2	1.7	4.1	13.9	16.4	19.6	57.8	93.4	100.0	261.0	431	17.0	19.0	21.6	17.8	18.8	20.2

-99.00 indicate No data or Invalid data.

KERALA FOREST RESEARCH INSTITUTE. DAILY FOREST METEOROLOGICAL DATA  
Station 4. Eravikulam NP 1st October 1997 to 31st October 1997

Day	Wind speed			Temperature			Humidity			Rain mm	Solar MJ/m2	Soil(15cm) temp oC			Soil(30cm) temp oC		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max			Min	Avg	Max	Min	Avg	Max
1 (274)	0.4	1.3	2.5	14.6	16.3	18.6	56.9	82.7	98.3	0.2	22.2	19.3	20.5	21.8	19.7	20.5	21.7
2 (275)	0.3	1.1	2.8	15.7	17.2	19.2	54.3	68.9	94.2	0.0	23.5	19.0	20.6	22.1	19.4	20.7	22.0
3 (276)	0.2	1.1	2.7	15.1	16.2	18.5	71.4	85.2	100.0	4.2	15.6	19.2	20.4	21.5	19.6	20.6	21.5
4 (277)	0.2	0.9	1.8	15.1	16.6	19.1	73.2	91.6	100.0	0.6	10.1	18.9	19.7	20.5	19.3	20.0	20.8
5 (278)	0.3	1.1	3.1	15.1	16.8	18.6	66.0	87.2	96.7	0.0	13.0	18.6	19.4	20.3	18.9	19.6	20.3
6 (279)	0.3	1.3	3.6	15.4	17.1	20.3	47.8	84.7	100.0	0.0	21.2	18.3	19.7	21.3	18.7	19.8	21.1
7 (280)	0.4	1.3	3.7	15.6	16.9	18.8	68.8	90.0	100.0	0.0	13.7	19.4	20.3	21.2	19.6	20.4	21.1
8 (281)	0.4	1.5	3.8	15.8	17.2	19.0	60.3	83.3	97.1	2.4	15.3	18.9	19.9	20.7	19.3	20.1	20.8
9 (282)	0.5	1.4	2.8	15.8	16.9	19.0	75.6	88.1	99.7	0.8	15.4	18.7	19.8	20.8	19.1	20.0	20.8
10 (283)	0.7	2.0	4.3	15.1	17.0	19.8	62.9	82.1	95.4	0.0	18.6	18.5	19.7	20.9	18.9	19.9	20.9
11 (284)	0.4	2.5	4.3	16.0	17.5	19.7	67.3	83.5	98.0	0.6	25.2	18.9	20.3	21.9	19.3	20.4	21.7
12 (285)	0.7	3.1	7.5	15.6	17.4	20.0	77.3	84.5	93.7	6.2	22.6	19.6	20.9	22.4	19.9	21.0	22.2
13 (286)	0.5	1.9	5.0	15.1	16.5	18.1	76.3	91.0	99.7	21.0	10.8	19.1	19.9	21.0	19.5	20.2	21.3
14 (287)	0.3	1.2	2.3	15.0	16.8	19.5	68.7	88.1	99.8	13.2	12.2	18.5	19.3	19.9	18.9	19.5	20.0
15 (288)	0.6	1.8	4.4	15.1	16.6	19.1	75.8	89.3	100.0	7.0	14.9	18.0	19.1	20.1	18.5	19.3	20.1
16 (289)	0.7	2.3	4.0	14.9	16.6	18.6	82.7	90.3	99.8	2.4	17.7	18.2	19.2	20.1	18.6	19.4	20.1
17 (290)	1.0	2.4	3.6	15.6	17.4	19.9	77.5	86.9	95.2	3.6	19.6	18.3	19.3	20.5	18.6	19.5	20.4
18 (291)	1.5	3.3	5.2	16.2	17.7	19.7	66.8	84.5	95.0	1.4	22.5	18.6	19.9	21.4	18.9	19.9	21.2
19 (292)	0.5	2.3	4.3	15.1	16.8	19.1	76.8	90.4	100.0	1.8	14.9	19.1	20.1	20.8	19.5	20.2	20.9
20 (293)	0.5	2.0	3.7	15.1	16.7	20.5	73.5	93.2	100.0	4.2	14.3	18.8	19.8	20.7	19.2	20.0	20.7
21 (294)	0.8	1.7	3.4	15.6	16.9	18.9	83.6	94.2	99.5	3.0	12.8	18.9	19.7	20.5	19.2	19.9	20.5
22 (295)	0.3	1.7	3.0	15.8	17.3	19.9	66.9	88.5	100.0	6.8	13.9	18.6	19.7	20.7	19.0	19.9	20.7
23 (296)	0.2	0.6	1.2	15.2	16.5	17.7	78.5	92.7	100.0	8.8	9.1	19.0	19.7	20.2	19.4	19.9	20.4
24 (297)	0.6	1.3	2.2	16.2	17.4	20.3	69.5	87.0	98.5	4.0	16.0	18.3	19.4	20.5	18.7	19.7	20.5
25 (298)	0.4	1.0	2.8	15.8	17.2	19.7	77.4	86.8	99.3	11.8	11.8	18.6	19.5	20.3	19.0	19.8	20.3
26 (299)	0.3	1.2	4.4	16.0	17.1	18.9	81.7	90.8	99.8	0.2	12.4	18.4	19.2	20.0	18.8	19.5	20.1
27 (300)	0.4	1.4	2.4	15.4	16.8	19.0	67.3	92.9	99.9	4.6	13.5	18.6	19.5	20.5	19.0	19.7	20.5
28 (301)	0.3	1.1	2.4	16.2	17.7	19.5	57.7	82.1	100.0	1.4	14.8	18.4	19.5	20.4	18.8	19.7	20.5
29 (302)	0.2	1.0	2.1	15.2	16.6	18.6	84.4	94.4	100.0	2.4	14.8	18.7	19.8	20.9	19.1	20.0	20.9
30 (303)	0.2	0.7	1.6	15.3	16.3	18.3	82.7	94.9	100.0	3.8	5.9	18.9	19.4	20.0	19.3	19.7	20.3
31 (304)	0.4	0.9	2.3	15.3	16.3	18.7	81.5	93.1	100.0	0.8	11.8	18.0	19.0	20.2	18.5	19.3	20.2

0.2 1.6 7.5 14.6 16.9 20.5 47.8 87.8 100.0 117.2 480 18.0 19.7 22.4 18.5 19.9 22.2

-99.00 indicate No data or Invalid data.

KERALA FOREST RESEARCH INSTITUTE, DAILY FOREST METEOROLOGICAL DATA

Station 4. Eravikulam NP 1st November 1997 to 30th November 1997

Day	Wind speed			Temperature			Humidity			Rain	Solar	Soil(15cm)			Soil(30cm)		
	m/s			oC			%			mm	MJ/m2	temp oC			temp oC		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Total	Total	Min	Avg	Max	Min	Avg	Max
1 (305)	0.3	1.0	2.7	15.6	16.7	18.6	82.7	91.1	100.0	0.2	11.8	18.0	19.0	19.8	18.5	19.2	19.9
2 (306)	0.4	1.6	3.6	15.3	16.8	18.3	85.3	93.4	98.7	0.2	13.5	18.2	19.1	20.1	18.6	19.4	20.1
3 (307)	0.3	1.5	3.1	15.6	16.6	18.4	90.3	96.9	100.0	0.2	15.1	18.5	19.4	20.4	18.9	19.6	20.4
4 (308)	0.7	2.0	3.4	15.5	16.3	17.6	92.6	95.8	99.3	0.0	9.2	18.6	19.2	19.8	19.0	19.5	20.0
5 (309)	1.1	2.4	5.8	15.0	16.1	17.8	80.1	92.0	100.0	0.2	7.7	18.1	18.6	19.3	18.5	18.9	19.6
6 (310)	0.4	2.4	4.6	14.4	15.9	18.2	82.9	94.3	100.0	0.0	11.5	17.6	18.2	19.0	18.0	18.5	19.1
7 (311)	0.7	2.6	5.3	15.5	16.5	17.6	86.5	92.2	97.3	0.2	10.5	17.7	18.4	19.1	18.1	18.7	19.2
8 (312)	0.1	1.0	2.4	15.2	15.7	16.6	89.7	98.5	100.0	0.0	2.8	17.9	18.2	18.9	18.2	18.5	19.1
9 (313)	0.3	1.2	1.8	15.0	16.4	18.1	84.8	94.5	100.0	0.2	8.5	17.4	17.9	18.9	17.7	18.2	19.0
10 (314)	0.4	1.5	2.3	16.0	17.7	20.7	72.9	89.3	96.7	0.6	15.4	17.8	18.9	20.2	18.2	19.1	20.2
11 (315)	0.4	1.1	2.6	15.6	17.0	19.0	77.0	89.6	100.0	0.0	12.9	18.1	19.2	20.0	18.5	19.4	20.1
12 (316)	0.6	1.8	3.7	15.3	17.1	19.2	69.0	88.6	98.6	0.2	17.7	17.9	19.1	20.4	18.4	19.4	20.3
13 (317)	0.3	2.0	3.7	14.6	16.9	19.7	67.2	82.2	100.0	0.0	21.9	17.8	19.3	20.8	18.3	19.4	20.6
14 (318)	0.6	1.8	3.5	14.3	17.0	19.7	64.4	79.2	100.0	0.2	22.5	18.1	19.8	21.6	18.5	19.9	21.4
15 (319)	0.5	1.4	3.9	15.5	17.0	18.9	72.6	86.2	98.5	0.0	14.7	18.8	20.0	21.0	19.2	20.2	21.1
16 (320)	0.5	1.5	3.2	15.4	16.8	18.7	80.0	92.9	98.1	0.4	13.4	18.9	19.9	20.9	19.3	20.1	20.8
17 (321)	0.3	1.0	2.1	15.6	16.3	16.9	94.1	98.7	100.0	0.2	7.6	19.2	19.7	20.3	19.5	20.0	20.5
18 (322)	0.2	1.0	2.7	15.6	16.4	17.6	93.1	98.7	100.0	0.2	13.3	18.7	19.6	20.7	19.1	19.9	20.8
19 (323)	0.1	1.2	3.0	15.2	16.1	17.8	83.5	95.3	100.0	0.2	12.8	19.0	19.7	20.4	19.4	20.0	20.5
20 (324)	0.4	1.2	2.6	14.5	17.2	18.9	74.4	89.0	96.0	0.2	19.1	18.4	19.9	21.5	18.9	20.1	21.4
21 (325)	0.3	1.1	2.6	16.0	17.2	19.7	79.2	90.7	96.6	0.0	12.6	19.0	20.1	20.8	19.4	20.3	21.0
22 (326)	0.6	2.6	5.4	16.2	17.4	19.3	72.1	87.8	95.3	0.2	17.1	19.0	19.9	21.0	19.4	20.1	20.9
23 (327)	0.5	1.1	2.1	16.0	16.7	17.9	85.4	96.2	100.0	0.2	9.1	19.2	19.9	20.5	19.6	20.2	20.7
24 (328)	0.3	1.1	1.8	15.1	16.3	18.0	86.2	96.1	100.0	0.0	13.4	18.8	19.7	20.8	19.3	20.0	21.0
25 (329)	0.5	1.1	2.5	14.6	16.7	19.8	71.9	91.1	96.6	0.2	19.2	18.5	19.7	21.4	19.0	20.0	21.4
26 (330)	0.4	1.1	2.7	15.3	16.7	18.8	80.9	93.9	100.0	0.0	17.9	19.3	20.5	21.9	19.7	20.7	21.8
27 (331)	0.3	1.1	2.4	15.2	16.8	18.7	80.6	94.1	100.0	0.0	11.2	19.4	20.3	21.0	19.9	20.6	21.2
28 (332)	0.6	1.9	4.0	16.3	17.4	18.8	69.7	84.9	97.4	0.0	15.9	18.6	19.7	20.5	19.1	20.0	20.6
29 (333)	0.9	2.4	4.5	15.8	17.1	19.3	77.7	90.0	99.1	0.0	18.3	18.7	19.7	20.9	19.1	19.9	20.8
30 (334)	0.9	2.4	4.5	15.6	17.0	18.9	79.4	87.6	98.3	0.0	18.6	19.0	19.9	20.8	19.5	20.1	20.8
	0.1	1.6	5.8	14.3	16.7	20.7	64.4	91.7	100.0	4.0	415	17.4	19.4	21.9	17.7	19.7	21.8

-99.00 indicate No data or Invalid data.

KERALA FOREST RESEARCH INSTITUTE. DAILY FOREST METEOROLOGICAL DATA  
 Station 4. Eravikulam NP 1st December 1997 to 31st December 1997

Day	Wind speed			Temperature			Humidity			Rain mm	Solar MJ/m2	Soi 1(15cm)			Soi 1(30cm)		
	m/s			oc			%					temp oC			temp oc		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Total	Total	Min	Avg	Max	Min	Avg	Max
1 (335)	1.5	3.9	6.3	15.0	16.4	19.1	61.7	84.9	99.4	0.0	18.0	18.4	19.5	20.5	18.9	19.7	20.5
2 (336)	1.2	3.6	5.9	13.6	16.1	20.5	48.1	81.8	94.5	0.0	20.9	18.3	19.5	20.7	18.7	19.7	20.6
3 (337)	1.4	2.5	4.3	14.7	15.7	16.8	89.7	94.8	99.5	0.0	9.3	18.3	19.0	20.0	18.8	19.4	20.2
4 (338)	1.1	2.7	3.8	14.8	16.2	17.8	76.5	91.7	97.5	0.0	14.4	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
5 (339)	0.5	3.1	5.6	15.6	16.6	18.6	79.7	90.9	99.3	0.0	13.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
6 (340)	0.2	0.8	2.2	15.2	15.9	17.6	93.1	97.4	100.0	0.0	5.7	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
7 (341)	0.3	1.0	3.3	15.1	16.1	18.1	77.7	94.7	100.0	0.0	5.5	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
8 (342)	0.2	1.1	2.3	15.0	16.3	19.2	89.6	98.0	100.0	0.0	14.2	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
9 (343)	0.2	1.1	2.8	15.2	16.7	18.2	73.3	92.2	100.0	0.0	12.6	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
10 (344)	0.4	1.1	3.2	16.2	17.7	20.1	69.6	80.1	93.4	0.0	17.2	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
11 (345)	0.7	2.8	5.5	16.2	17.6	20.5	73.6	85.6	97.1	0.0	19.7	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
12 (346)	0.6	2.2	4.2	16.1	17.4	19.2	80.0	87.9	96.4	0.0	14.9	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
13 (347)	0.6	1.7	3.4	15.7	17.5	20.3	71.7	83.4	95.2	0.0	16.3	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
14 (348)	0.5	1.3	2.5	16.5	18.0	20.7	69.9	82.2	94.5	0.0	19.5	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
15 (349)	0.5	1.9	3.4	16.1	17.7	19.6	80.5	89.8	97.2	0.0	19.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
16 (350)	0.6	1.6	3.2	15.7	17.4	20.1	82.4	91.4	100.0	6.4	17.9	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
17 (351)	0.2	1.0	2.0	16.1	17.7	20.8	71.6	84.7	97.5	0.0	14.8	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
18 (352)	0.4	1.1	2.1	15.7	17.2	19.2	74.4	91.2	99.0	2.0	13.9	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
19 (353)	0.3	1.8	3.1	16.1	17.8	20.3	78.3	86.6	94.1	0.2	18.3	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
20 (354)	0.3	1.1	3.0	15.7	16.8	18.0	86.2	94.0	100.0	0.0	11.2	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
21 (355)	0.2	0.8	1.5	15.6	16.7	18.4	83.8	95.5	100.0	0.6	10.9	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
22 (356)	0.3	1.1	2.7	15.4	17.0	19.4	66.8	82.4	93.9	0.2	20.8	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
23 (357)	0.2	1.3	2.7	15.4	16.8	19.7	61.3	76.8	88.7	0.0	25.2	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
24 (358)	0.3	0.9	2.3	14.9	16.5	18.9	73.8	83.7	95.7	0.0	20.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
25 (359)	0.2	0.8	2.0	14.6	16.3	19.2	70.7	83.1	94.5	0.0	18.5	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
26 (360)	0.2	1.5	2.4	14.0	16.3	18.4	63.0	81.8	89.8	0.0	19.6	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
27 (361)	1.1	2.0	2.7	14.0	14.8	15.5	67.0	74.0	81.0	27.6	5.1	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
28 (362)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
29 (363)	1.7	3.1	4.3	25.4	28.1	30.3	60.3	67.8	86.0	0.0	21.5	27.4	29.5	31.1	28.7	29.2	29.7
30 (364)	0.2	2.2	3.7	22.9	26.3	30.7	57.0	75.1	96.0	0.0	22.2	27.3	29.1	31.2	28.7	29.3	29.8
31 (365)	0.4	2.2	4.1	22.4	26.0	30.5	57.3	75.9	96.3	0.0	23.2	27.2	29.0	31.0	28.7	29.3	29.8
	0.2	1.8	6.3	13.6	17.8	30.7	48.1	86.0	100.0	37.0	483	18.3	24.3	31.2	18.7	24.4	29.8

-99.00 indicate No data or Invalid data.



KERALA FOREST RESEARCH INSTITUTE, DAILY FOREST METEOROLOGICAL DATA  
 Station 4, Eravikulam NP 1st January 1998 to 31st January 1998

Day	Wind speed			Temperature			Humidity			Rain	Solar	Soil(15cm)			Soil(30cm)		
	m/s			oC			%			mm	MJ/m2	temp oC			temp oC		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Total	Total	Min	Avg	Max	Min	Avg	Max
1 ( 1)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
2 ( 2)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
3 ( 3)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
4 ( 4)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
5 ( 5)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
6 ( 6)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
7 ( 7)	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
8 ( 8)	1.5	2.6	3.7	22.1	23.6	27.7	68.3	83.1	89.9	0.0	7.4	26.7	27.5	28.8	28.1	28.6	28.9
9 ( 9)	0.8	2.2	3.7	13.7	15.9	18.2	68.2	83.0	92.1	0.0	19.1	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
10 ( 10)	1.2	2.9	3.8	14.0	15.8	18.7	73.5	85.2	91.9	0.0	24.1	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
11 ( 11)	0.7	1.7	3.2	13.1	17.2	20.2	20.4	53.5	84.6	0.0	25.2	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
12 ( 12)	0.4	1.9	3.3	15.4	18.2	20.4	16.6	52.4	93.7	0.0	25.5	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
13 ( 13)	0.1	1.2	2.4	15.5	17.8	20.0	35.8	57.3	92.7	0.0	26.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
14 ( 14)	0.5	2.4	5.3	15.8	18.2	20.7	23.2	47.4	67.3	0.0	24.4	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
15 ( 15)	0.4	1.8	4.0	14.8	16.7	19.5	32.6	45.4	62.3	0.0	23.2	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
16 ( 16)	0.3	1.3	3.2	16.0	18.5	21.3	11.2	40.5	73.1	0.0	23.1	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
17 ( 17)	0.2	1.3	3.3	14.5	17.2	19.8	31.6	63.8	98.2	0.0	25.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
18 ( 18)	0.1	1.0	2.6	15.6	17.4	19.8	65.0	80.3	99.8	0.0	25.8	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
19 ( 19)	0.2	1.2	2.6	15.5	17.6	20.4	65.3	85.6	100.0	0.0	23.4	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
20 ( 20)	0.2	1.1	2.7	16.1	17.5	19.0	74.8	87.0	97.9	0.0	16.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
21 ( 21)	0.3	1.4	3.5	16.0	18.0	20.1	30.0	78.6	97.6	0.0	25.3	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
22 ( 22)	0.3	1.3	2.6	16.2	18.1	19.7	54.6	77.8	95.8	0.0	23.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
23 ( 23)	0.2	1.2	2.5	15.8	17.6	19.7	77.6	85.7	96.6	0.0	15.2	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
24 ( 24)	0.8	2.0	3.4	16.1	17.3	19.9	70.3	87.3	95.4	0.0	14.5	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
25 ( 25)	0.3	1.9	4.8	15.0	16.7	18.9	69.4	82.4	92.4	0.0	18.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
26 ( 26)	0.5	1.6	3.9	14.9	17.1	19.9	62.2	75.4	87.9	0.0	23.4	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
27 ( 27)	0.5	1.6	3.0	15.4	17.1	20.1	58.8	73.8	90.5	0.0	18.8	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
28 ( 28)	0.5	2.1	4.3	13.4	16.2	19.1	67.9	79.0	93.0	0.0	19.4	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
29 ( 29)	0.7	2.8	4.4	14.3	16.7	21.1	56.2	68.8	83.2	0.0	25.7	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
30 ( 30)	0.6	3.3	4.6	13.8	16.8	19.8	59.1	71.4	79.1	0.0	25.8	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
31 ( 31)	1.1	2.7	4.2	15.0	16.3	18.0	54.4	78.3	91.7	0.0	15.6	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
	0.1	1.8	5.3	13.1	17.5	27.7	11.2	71.8	100.0	0.0	513	26.7	27.5	28.8	28.1	28.6	28.9

-99.00 indicate No data or Invalid data.

KERALA FOREST RESEARCH INSTITUTE. DAILY FOREST METEOROLOGICAL DATA

Station 4. Eravikulam NP 1st February 1998 to 28th February 1998

Day	Wind speed			Temperature			Humidity			Rain mm	Solar MJ/m2	Soil(15cm)			Soil(30cm)		
	m/s			oC			%					temp oC			temp oC		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Total	Total	Min	Avg	Max	Min	Avg	Max
1 ( 32)	1.6	3.0	4.6	13.6	16.1	18.5	65.0	76.9	88.3	0.0	23.7	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
2 ( 33)	0.7	2.1	3.5	14.8	16.7	20.1	44.4	65.4	81.8	0.0	23.5	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
3 ( 34)	0.7	2.3	4.2	14.2	16.5	20.7	36.3	56.8	77.3	0.0	24.2	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
4 ( 35)	0.7	1.8	2.8	15.4	18.0	21.2	25.6	41.5	66.5	0.0	26.8	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
5 ( 36)	0.4	1.5	2.5	15.1	17.8	21.1	22.6	47.2	76.8	0.0	26.8	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
6 ( 37)	0.4	1.5	2.9	15.9	18.2	20.9	27.7	50.6	76.8	0.0	27.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
7 ( 38)	0.3	1.4	2.5	14.5	17.3	20.0	36.4	65.4	85.8	0.0	26.9	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
8 ( 39)	0.3	1.4	2.4	15.8	17.9	20.5	52.9	71.2	91.4	0.0	24.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
9 ( 40)	0.8	3.1	5.1	16.2	17.1	18.6	64.5	75.5	83.6	0.0	22.2	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
10 ( 41)	2.6	4.1	5.8	14.3	16.5	18.0	58.3	75.8	85.6	0.0	25.9	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
11 ( 42)	0.4	2.3	5.1	13.8	16.3	19.4	73.2	80.2	90.8	7.6	20.7	20.9	21.1	21.2	22.2	23.0	23.6
12 ( 43)	0.2	1.1	2.5	14.9	17.4	20.2	61.1	75.4	87.2	0.0	25.2	20.7	21.0	21.3	19.9	22.0	24.4
13 ( 44)	0.3	1.2	2.7	14.1	17.3	20.0	61.7	77.7	96.1	0.0	22.8	21.0	21.3	21.5	20.6	22.5	24.3
14 ( 45)	0.3	1.5	3.3	14.8	16.5	18.6	76.0	88.2	98.3	0.0	21.3	21.2	21.4	21.6	21.0	22.7	24.2
15 ( 46)	0.1	1.2	3.1	13.8	16.5	19.6	70.5	87.0	98.0	0.0	23.6	21.1	21.4	21.6	20.7	22.5	24.4
16 ( 47)	0.1	1.0	2.1	14.4	16.6	19.7	72.4	88.3	100.0	0.0	21.4	21.2	21.5	21.7	20.9	22.7	24.7
17 ( 48)	0.2	1.0	1.9	15.4	17.2	19.5	66.2	85.4	100.0	0.0	18.5	21.4	21.6	21.8	21.1	22.9	24.4
18 ( 49)	0.1	1.0	2.4	14.6	16.5	19.2	80.5	93.7	100.0	0.0	20.9	21.5	21.7	22.0	21.8	23.3	25.2
19 ( 50)	0.1	0.9	2.0	15.2	18.0	21.7	55.2	81.0	100.0	0.0	25.0	21.6	22.0	22.3	21.5	23.6	25.9
20 ( 51)	0.2	1.1	2.4	15.5	19.0	22.3	37.5	72.1	98.3	0.0	26.2	21.9	22.2	22.5	21.8	23.9	26.2
21 ( 52)	0.2	0.9	2.0	13.7	15.8	17.5	88.8	98.6	100.0	0.0	12.7	22.1	22.4	22.7	22.5	23.5	25.1
22 ( 53)	0.1	1.0	2.3	14.1	18.2	21.0	62.5	77.5	100.0	0.2	27.9	21.5	21.9	22.2	20.9	23.0	25.5
23 ( 54)	0.2	0.8	1.5	15.6	18.0	19.4	56.8	84.0	92.3	0.0	12.8	21.9	22.1	22.3	21.9	23.0	24.4
24 ( 55)	0.3	1.4	2.8	14.7	17.6	19.7	75.7	88.0	95.3	0.0	18.5	21.5	21.8	22.1	20.9	22.5	23.9
25 ( 56)	0.2	1.2	2.3	15.5	17.9	21.1	74.1	83.5	91.5	0.0	18.2	21.5	21.7	21.9	21.1	22.5	23.9
26 ( 57)	0.4	1.4	2.4	16.8	18.9	22.2	35.6	64.4	88.8	0.0	25.7	21.3	21.6	21.9	20.6	22.7	25.1
27 ( 58)	0.3	1.1	2.2	17.2	19.0	21.5	38.2	67.1	80.7	0.0	22.7	21.6	21.9	22.1	21.2	23.1	24.9
28 ( 59)	0.4	1.4	2.3	16.9	19.0	21.0	34.1	66.8	100.0	0.0	24.1	21.7	22.0	22.2	21.3	23.3	25.3
	0.1	1.6	5.8	13.6	17.4	22.3	22.6	74.5	100.0	7.8	639	20.7	21.7	22.7	19.9	22.9	26.2

-99.00 indicate No data or Invalid data.

## KERALA FOREST RESEARCH INSTITUTE, DAILY FOREST METEOROLOGICAL DATA

Station 4. Eravikulam NP 1st March 1998 to 31st March 1998

Day	Wind speed			Temperature			Humidity			Rain	Solar	Soil(15cm)			Soil(30cm)		
	m/s			oC			%			mm	MJ/m2	temp oC			temp oC		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Total	Total	Min	Avg	Max	Min	Avg	Max
1 ( 60)	0.3	1.2	2.5	15.4	18.8	21.6	58.1	70.8	88.8	0.0	22.3	21.8	22.1	22.3	21.5	23.4	25.1
2 ( 61)	0.3	1.2	3.3	17.3	18.8	20.9	45.3	64.9	81.0	0.0	17.3	21.9	22.1	22.4	21.6	23.1	24.1
3 ( 62)	0.7	1.9	3.7	15.4	17.9	21.1	49.3	68.9	81.0	0.0	21.9	21.6	21.9	22.2	21.0	22.7	24.4
4 ( 63)	0.9	3.0	4.5	14.1	18.1	21.4	42.9	56.6	84.2	0.0	26.7	21.5	21.8	22.1	21.0	22.5	24.1
5 ( 64)	0.1	1.5	3.5	15.4	18.2	21.5	35.1	58.1	89.3	0.0	27.0	21.4	21.7	22.0	20.6	22.5	24.6
6 ( 65)	0.2	1.1	2.7	14.9	17.4	21.1	53.3	80.6	100.0	0.0	20.1	21.6	21.8	22.0	21.1	22.8	24.2
7 ( 66)	0.1	1.1	2.2	15.5	18.6	21.8	63.4	79.7	99.0	0.0	25.4	21.5	21.8	22.1	21.1	23.1	25.4
8 ( 67)	0.1	1.2	2.5	15.6	17.5	19.6	70.2	87.0	100.0	0.0	23.5	21.9	22.1	22.4	21.9	23.6	25.2
9 ( 68)	0.3	1.1	2.0	16.0	19.0	22.1	60.8	76.4	98.2	0.0	23.8	22.0	22.3	22.5	21.9	23.7	25.6
10 ( 69)	0.3	1.4	2.4	18.1	20.0	22.5	45.3	63.9	93.5	0.0	22.1	22.1	22.4	22.6	22.0	23.7	25.3
11 ( 70)	0.3	1.2	2.2	15.9	18.5	21.1	71.1	79.8	91.9	0.0	20.0	22.1	22.4	22.6	22.0	23.6	24.9
12 ( 71)	0.2	1.2	2.6	15.3	18.9	21.7	47.4	67.2	81.4	0.0	25.0	22.0	22.3	22.5	21.5	23.4	25.4
13 ( 72)	0.3	1.3	2.2	16.9	18.7	20.6	38.9	64.2	98.9	0.0	25.9	22.0	22.4	22.6	21.6	23.7	25.7
14 ( 73)	0.3	1.0	2.1	16.4	18.6	21.2	58.2	74.7	100.0	0.0	26.1	22.1	22.5	22.7	21.9	23.9	26.0
15 ( 74)	0.4	1.1	2.1	15.9	18.6	21.1	66.8	76.6	93.5	0.0	20.7	22.4	22.6	22.9	22.3	24.0	25.2
16 ( 75)	0.5	1.6	2.6	14.8	18.0	21.0	58.0	68.7	81.7	0.0	27.1	22.1	22.5	22.8	21.6	23.6	25.6
17 ( 76)	0.5	2.2	5.1	14.9	18.9	22.2	17.5	51.1	77.7	0.0	27.7	22.1	22.5	22.8	21.8	23.7	25.8
18 ( 77)	0.3	1.3	2.2	16.3	19.3	22.4	17.8	50.7	71.9	0.0	27.1	22.2	22.5	22.8	21.8	23.9	26.1
19 ( 78)	0.7	1.9	4.2	18.0	20.6	23.7	12.5	30.9	66.3	0.0	27.7	22.3	22.6	22.9	22.0	24.0	25.9
20 ( 79)	0.9	3.5	6.1	18.6	21.2	23.7	17.6	31.3	58.8	0.0	28.2	22.4	22.7	22.9	22.3	23.9	25.5
21 ( 80)	0.5	1.6	3.9	16.8	19.7	23.8	24.6	44.8	64.7	0.0	27.5	22.2	22.6	22.9	21.8	23.6	25.4
22 ( 81)	0.4	2.7	5.9	16.7	20.6	24.1	25.1	45.7	72.4	0.0	27.4	22.2	22.5	22.8	21.9	23.5	25.3
23 ( 82)	0.2	1.4	3.5	17.2	19.8	24.1	28.1	65.1	100.0	0.0	24.3	22.1	22.4	22.7	21.7	23.5	25.6
24 ( 83)	0.3	1.2	3.4	15.8	20.0	25.6	21.1	64.1	97.4	0.0	28.2	22.2	22.5	22.7	21.7	23.8	26.0
25 ( 84)	0.2	1.0	2.7	15.9	19.0	22.3	62.2	82.5	100.0	0.0	23.1	22.3	22.6	22.9	22.2	24.1	25.8
26 ( 85)	0.3	1.0	2.4	15.6	19.9	22.0	50.4	74.9	97.1	0.0	19.6	22.4	22.7	22.9	22.4	24.1	25.6
27 ( 86)	0.7	1.6	2.5	16.3	19.8	23.4	56.7	76.2	93.4	0.0	19.6	22.4	22.7	22.9	22.3	23.8	25.2
28 ( 87)	0.3	1.5	3.9	16.3	19.5	23.4	26.8	62.6	90.3	0.0	25.6	22.3	22.6	22.8	21.9	23.7	25.4
29 ( 88)	0.3	1.1	2.3	15.8	18.7	22.1	55.3	70.4	87.7	0.0	21.6	22.0	22.5	22.8	21.7	23.5	25.3
30 ( 89)	0.3	1.2	2.5	16.0	18.8	20.9	48.6	75.0	93.2	0.0	18.3	22.2	22.4	22.7	21.7	23.3	24.6
31 ( 90)	0.2	1.5	3.6	16.7	19.5	23.1	58.2	75.9	95.9	0.0	21.9	22.0	22.3	22.5	21.6	23.2	24.8
	0.1	1.5	6.1	14.1	19.1	25.6	12.5	65.8	100.0	0.0	743	21.4	22.3	22.9	20.6	23.5	26.1

-99.00 indicate No data or Invalid data.

KERALA FOREST RESEARCH INSTITUTE. DAILY FOREST METEOROLOGICAL DATA  
Station 4. Eravikulam NP 1st April 1998 to 30th April 1998

Day	Wind speed			Temperature			Humidity			Rain mm	Solar MJ/m2	Soil(15cm)			Soil(30cm)		
	m/s			oC			%					temp oC			temp oC		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Total	Total	Min	Avg	Max	Min	Avg	Max
1 ( 91)	0.3	0.9	2.1	16.7	18.8	20.9	69.0	84.2	92.6	0.0	12.1	22.1	22.3	22.5	22.0	23.1	24.1
2 ( 92)	0.3	1.1	2.8	16.2	18.8	21.5	58.7	79.2	90.8	0.0	14.0	21.8	22.0	22.3	21.4	22.4	23.2
3 ( 93)	0.5	1.6	3.8	16.3	19.0	22.5	45.9	75.4	94.8	0.0	21.7	21.5	21.8	22.0	21.0	22.4	24.1
4 ( 94)	0.3	1.6	3.5	15.4	19.4	22.7	34.8	63.7	92.6	0.0	28.1	21.0	21.9	22.2	21.4	23.1	25.0
5 ( 95)	0.3	1.4	3.0	15.3	19.3	23.3	36.7	62.2	80.4	0.0	25.5	21.9	22.2	22.4	21.4	23.2	24.9
6 ( 96)	0.5	1.5	3.0	15.9	19.8	23.5	39.3	62.2	75.9	0.0	20.6	21.9	22.2	22.4	21.5	23.1	24.5
7 ( 97)	0.6	2.0	6.0	16.9	20.1	23.9	31.6	64.2	92.7	0.0	21.8	21.9	22.2	22.4	21.5	23.2	25.0
8 ( 98)	0.7	3.0	6.0	18.0	20.2	22.8	35.2	53.7	87.8	0.0	23.2	22.0	22.3	22.5	21.8	23.4	25.0
9 ( 99)	0.7	2.5	4.8	18.0	20.0	22.4	30.1	59.8	86.3	0.0	23.4	22.0	22.3	22.5	21.5	23.4	25.3
10 (100)	0.3	2.1	4.5	16.5	18.8	20.7	74.6	84.9	100.0	0.0	19.1	22.1	22.4	22.6	21.9	23.4	24.7
11 (101)	0.6	2.2	4.6	16.6	19.2	21.8	69.5	79.1	86.7	0.0	21.6	22.0	22.3	22.5	21.7	23.4	25.0
12 (102)	0.7	2.1	4.6	16.1	19.2	22.3	68.7	80.9	100.0	0.0	21.5	22.1	22.3	22.5	21.7	23.4	25.1
13 (103)	0.5	2.4	4.5	17.0	19.6	21.5	60.8	75.2	89.1	0.0	18.9	22.1	22.4	22.6	21.8	23.4	24.9
14 (104)	0.5	1.9	4.0	17.8	19.8	22.5	66.9	77.9	94.3	0.0	21.1	22.1	22.4	22.6	21.9	23.6	25.3
15 (105)	0.6	2.0	4.7	17.2	19.3	21.9	67.6	83.3	95.9	0.0	20.3	22.2	22.4	22.7	21.9	23.6	25.1
16 (106)	0.5	1.8	4.7	16.5	18.4	21.4	71.2	90.9	100.0	0.0	14.4	22.2	22.4	22.7	21.9	23.2	24.1
17 (107)	0.6	1.9	4.3	16.1	18.6	20.5	77.9	89.6	99.6	1.4	16.5	22.0	22.2	22.4	21.7	23.0	24.3
18 (108)	0.2	2.0	4.5	17.5	20.1	22.1	65.1	75.9	83.5	0.0	24.1	21.8	22.1	22.4	21.2	22.8	24.4
19 (109)	0.4	1.6	4.3	16.7	18.6	20.6	67.5	92.9	100.0	0.0	15.0	22.0	22.2	22.3	21.8	23.0	24.0
20 (110)	0.3	1.8	4.0	17.0	20.7	23.5	62.5	77.8	97.8	0.6	18.8	21.9	22.1	22.4	21.6	23.2	24.6
21 (111)	0.7	1.8	5.5	18.1	20.1	21.6	64.4	83.6	97.1	4.0	17.0	22.1	22.3	22.4	22.0	23.3	24.6
22 (112)	0.5	1.6	3.8	17.7	19.7	21.3	74.0	85.1	96.6	3.2	14.8	21.8	22.1	22.4	21.3	22.4	23.5
23 (113)	0.5	2.2	7.1	16.8	19.4	23.2	44.9	80.9	97.9	1.2	14.6	21.4	21.7	22.0	20.4	21.8	22.9
24 (114)	0.8	2.2	4.5	18.2	20.1	21.8	62.7	77.4	97.5	0.2	15.7	21.2	21.4	21.7	20.3	21.7	23.0
25 (115)	1.0	2.8	7.2	17.5	20.8	23.8	59.5	72.3	93.4	6.6	22.1	21.2	21.5	21.9	20.3	22.3	24.5
26 (116)	0.9	2.3	5.0	17.3	19.3	22.7	36.7	80.1	100.0	4.2	16.6	21.6	21.8	22.0	20.9	22.4	23.4
27 (117)	0.4	2.1	4.3	17.2	19.2	20.5	68.6	84.6	100.0	0.4	18.7	21.3	21.6	21.9	20.3	22.1	23.6
28 (118)	0.8	1.8	4.0	16.7	18.4	20.2	65.5	89.6	100.0	0.0	11.8	21.4	21.6	21.8	20.6	21.8	22.5
29 (119)	0.4	1.8	3.2	17.9	19.3	21.2	64.1	79.2	98.0	6.4	16.4	21.1	21.4	21.5	19.9	21.4	23.9
30 (120)	0.7	1.7	3.4	17.5	19.8	22.2	69.9	84.7	100.0	0.0	14.7	21.0	21.2	21.5	20.0	21.3	22.6
	0.2	1.9	7.2	15.3	19.5	23.9	30.1	77.7	100.0	28.2	564	21.0	22.0	22.7	19.9	22.8	25.3

-99.00 indicate No data or Invalid data.

KERALA FOREST RESEARCH INSTITUTE, DAILY FOREST METEOROLOGICAL DATA

Station 4, Eravikulam NP 1st May 1998 to 31st May 1998

Day	Wind speed			Temperature			Humidity			Rain mm	Solar MJ/m2	Soil(15cm)			Soil(30cm)		
	m/s			oC			%					temp oC			temp oC		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Total	Total	Min	Avg	Max	Min	Avg	Max
1 (121)	0.7	2.5	6.7	18.5	19.7	20.7	75.0	86.5	100.0	0.0	15.0	21.0	21.2	21.4	20.0	21.5	22.8
2 (122)	0.5	1.9	4.4	17.8	20.0	22.6	64.3	80.5	90.6	0.0	20.8	21.0	21.3	21.6	20.1	21.9	23.7
3 (123)	0.4	1.9	3.7	17.7	19.0	20.6	74.9	89.5	100.0	0.0	14.5	21.3	21.5	21.7	20.8	22.2	23.5
4 (124)	0.3	1.5	3.9	16.9	18.9	20.2	71.0	88.9	100.0	0.0	13.0	21.5	21.6	21.8	20.9	22.2	23.2
5 (125)	0.4	1.7	3.8	18.3	19.9	21.5	64.0	85.1	100.0	0.0	21.2	21.2	21.5	21.7	20.0	22.0	23.9
6 (126)	0.6	2.0	4.0	17.3	19.9	21.9	71.7	87.0	96.1	0.0	20.4	21.4	21.6	22.0	20.6	22.5	24.6
7 (127)	0.5	2.0	3.8	17.5	19.5	21.3	73.8	83.2	92.1	0.0	15.6	21.7	21.9	22.0	21.1	22.6	24.0
8 (128)	0.8	2.4	4.0	18.0	19.8	22.1	46.6	73.0	87.5	0.0	19.1	21.6	21.8	22.0	20.7	22.5	24.2
9 (129)	0.6	2.0	5.0	16.6	18.7	21.2	68.9	88.0	99.8	0.0	8.9	21.7	21.8	22.1	21.2	21.9	22.8
10 (130)	0.6	1.5	3.0	17.5	18.7	19.8	79.1	89.2	99.7	0.0	10.4	21.1	21.3	21.7	20.0	21.0	22.0
11 (131)	0.5	1.7	6.4	16.9	18.6	21.0	65.8	86.9	98.7	0.0	9.5	20.9	21.0	21.3	19.8	20.7	21.5
12 (132)	0.5	1.8	3.8	17.4	19.3	20.9	59.4	81.1	94.7	0.0	15.3	20.5	20.7	20.9	19.2	20.6	22.1
13 (133)	0.5	2.7	6.5	17.2	18.9	20.4	70.2	88.5	94.1	0.0	13.6	20.6	20.8	21.0	19.8	21.0	22.3
14 (134)	1.4	2.8	4.3	17.0	18.2	19.9	81.3	90.6	97.6	0.0	10.6	20.7	20.9	21.0	20.1	21.0	21.9
15 (135)	0.8	2.1	5.8	16.0	17.4	19.3	81.1	93.1	100.0	0.0	8.2	20.6	20.8	21.0	19.8	20.6	21.1
16 (136)	0.7	1.7	3.6	15.9	17.3	18.5	70.2	86.2	98.7	0.0	9.7	20.3	20.5	20.7	19.3	20.2	21.0
17 (137)	1.4	3.1	5.0	16.4	18.2	20.1	71.1	90.4	100.0	0.0	11.7	20.1	20.3	20.5	19.1	20.1	21.2
18 (138)	1.2	3.4	6.0	16.6	19.5	22.0	62.8	84.2	98.8	0.0	23.1	20.2	20.4	20.9	19.3	21.1	23.4
19 (139)	1.6	4.2	6.7	17.9	18.9	20.0	65.9	88.6	100.0	0.0	17.8	20.8	20.9	21.2	20.3	21.8	23.3
20 (140)	0.5	3.7	5.9	17.1	18.9	21.1	67.5	89.3	100.0	0.0	19.9	21.0	21.2	21.5	20.5	22.2	23.9
21 (141)	0.5	1.9	4.3	16.0	18.4	21.0	68.2	95.0	100.0	0.0	11.8	21.3	21.4	21.6	20.9	22.1	23.0
22 (142)	0.5	2.5	5.0	16.5	18.4	20.7	69.6	96.0	100.0	0.0	13.0	21.2	21.4	21.5	20.6	21.9	22.9
23 (143)	0.5	2.2	5.0	15.9	17.9	20.3	83.0	98.7	100.0	0.0	16.7	21.2	21.4	21.7	21.0	22.4	24.0
24 (144)	0.3	1.9	4.3	15.6	17.9	19.3	85.0	97.9	100.0	0.0	10.3	21.4	21.5	21.7	21.1	22.1	22.8
25 (145)	0.7	2.5	6.0	16.5	18.1	20.0	84.2	94.2	100.0	3.0	19.1	21.2	21.4	21.7	20.7	22.3	24.4
26 (146)	0.8	2.7	6.0	16.8	18.4	19.3	85.2	94.4	100.0	0.0	16.4	21.3	21.5	21.7	20.8	22.2	23.6
27 (147)	1.6	3.1	5.6	17.6	18.6	20.3	76.4	92.5	100.0	0.2	13.8	21.3	21.5	21.7	20.8	22.0	22.9
28 (148)	0.7	3.0	5.2	17.0	19.2	21.2	81.3	93.0	100.0	0.0	16.5	21.3	21.5	21.7	20.8	22.3	23.8
29 (149)	0.8	2.7	4.5	16.4	18.5	19.9	84.6	95.7	100.0	0.0	10.8	21.4	21.5	21.7	20.9	21.9	22.8
30 (150)	0.6	1.8	4.5	16.9	18.8	21.0	65.7	82.9	100.0	0.0	22.3	21.2	21.4	21.9	20.4	22.5	24.8
31 (151)	0.5	1.6	3.4	18.7	20.4	22.7	48.7	76.7	100.0	0.6	19.5	21.5	21.8	22.1	21.1	22.9	24.9
	0.3	2.3	6.7	15.6	18.8	22.7	46.6	88.6	100.0	3.8	469	20.1	21.3	22.1	19.1	21.8	24.9

-99.00 indicate No data or Invalid data.

KERALA FOREST RESEARCH INSTITUTE. DAILY FOREST METEOROLOGICAL DATA  
Station 4, Eravikulam NP 1st June 1998 to 30th June 1998

Day	Wind speed			Temperature			Humidity			Rain	Solar	Soil(15cm)			Soil(30cm)		
	m/s			oC			%			mm	MJ/m2	temp oC			temp oC		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Total	Total	Min	Avg	Max	Min	Avg	Max
1 (152)	0.5	2.2	7.9	18.1	20.2	22.4	45.8	81.1	100.0	14.4	14.0	21.6	21.8	22.1	21.1	22.5	23.8
2 (153)	0.7	1.6	3.1	17.0	18.1	20.0	75.8	94.8	99.7	0.2	12.9	21.4	21.6	22.0	20.7	21.7	22.8
3 (154)	0.7	1.7	3.1	16.7	17.6	19.2	82.4	94.0	100.0	1.8	11.3	21.1	21.3	21.6	20.4	21.3	22.2
4 (155)	0.9	2.5	3.9	16.3	17.9	19.8	82.3	94.1	100.0	3.8	16.6	20.9	21.1	21.4	20.0	21.3	22.7
5 (156)	0.9	2.3	3.8	15.8	17.8	19.7	85.2	92.2	100.0	0.2	21.2	20.9	21.2	21.5	20.2	21.8	23.7
6 (157)	1.3	2.8	5.2	15.5	17.5	20.0	83.5	95.3	100.0	2.6	16.1	21.1	21.3	21.5	20.3	21.6	22.9
7 (158)	2.3	3.3	4.7	15.6	17.6	19.9	67.3	88.5	100.0	9.4	15.4	20.8	21.1	21.4	19.8	21.0	22.0
8 (159)	2.5	3.8	5.9	16.9	18.1	19.6	73.2	88.4	99.3	0.0	24.2	20.7	20.9	21.2	19.7	21.3	23.4
9 (160)	2.8	4.3	5.5	16.4	17.3	18.9	86.0	96.8	100.0	14.8	13.6	20.9	21.0	21.2	20.3	21.1	22.0
10 (161)	3.8	5.2	6.7	16.1	16.6	17.5	92.7	96.6	100.0	16.6	9.1	20.4	20.6	21.0	19.5	20.1	20.6
11 (162)	4.0	4.8	5.5	15.2	16.1	17.0	94.2	98.6	100.0	14.0	7.6	20.0	20.1	20.4	18.8	19.4	19.9
12 (163)	4.5	5.6	6.5	15.7	16.2	17.0	95.7	98.6	100.0	16.0	7.8	19.5	19.7	20.0	18.3	18.9	19.5
13 (164)	3.5	5.6	7.3	15.6	16.5	17.5	95.0	98.8	100.0	17.8	6.3	19.4	19.5	19.6	18.4	18.8	19.3
14 (165)	2.9	4.6	6.3	15.9	16.3	17.2	82.6	96.3	100.0	24.6	5.8	19.1	19.2	19.4	18.2	18.6	19.2
15 (166)	3.3	4.5	5.7	15.5	16.1	17.2	89.8	97.4	100.0	12.6	12.5	18.9	19.1	19.2	17.7	18.6	19.6
16 (167)	4.6	5.3	5.9	15.0	16.1	16.8	96.6	99.0	100.0	14.0	8.9	19.0	19.1	19.2	18.0	18.6	19.3
17 (168)	4.0	5.4	6.3	14.6	15.7	16.1	97.5	99.7	100.0	42.2	5.1	18.7	18.9	19.1	17.9	18.2	18.6
18 (169)	1.9	4.1	5.5	15.3	16.1	17.3	88.6	97.3	100.0	14.4	9.3	18.5	18.6	18.7	17.2	18.1	19.0
19 (170)	3.3	4.4	6.1	15.0	16.1	17.2	93.2	99.3	100.0	28.7	5.7	18.5	18.6	18.7	17.6	18.1	18.8
20 (171)	5.0	5.8	6.5	14.9	15.8	16.4	95.9	99.6	100.0	18.6	5.2	18.3	18.4	18.6	17.3	17.8	18.2
21 (172)	5.0	5.9	7.3	15.2	16.0	17.6	94.6	99.1	100.0	16.2	9.1	18.2	18.3	18.4	17.4	18.0	18.8
22 (173)	5.6	6.8	8.6	15.6	16.0	16.5	97.9	99.9	100.0	62.2	4.6	18.1	18.2	18.4	17.4	17.7	18.1
23 (174)	5.9	7.1	8.2	14.8	15.5	16.0	97.2	99.8	100.0	49.6	6.2	17.7	17.8	18.1	16.8	17.2	17.7
24 (175)	5.3	6.7	9.0	14.3	15.5	16.4	97.3	99.6	100.0	42.4	5.1	17.6	17.6	17.8	16.7	17.1	17.5
25 (176)	7.3	8.3	10.2	15.0	15.8	16.5	97.5	99.9	100.0	134.2	5.0	17.0	17.3	17.6	16.4	16.9	17.5
26 (177)	7.3	8.7	10.6	14.6	15.6	16.4	95.0	99.5	100.0	28.0	3.6	17.0	17.0	17.1	16.3	16.6	17.0
27 (178)	7.5	8.8	10.7	15.1	16.0	16.6	100.0	100.0	100.0	121.2	4.2	16.7	16.8	17.0	16.2	16.6	17.2
28 (179)	7.5	9.0	10.6	15.5	16.0	16.5	100.0	100.0	100.0	192.8	3.8	16.3	16.5	16.8	16.0	16.9	17.7
29 (180)	9.0	9.9	11.0	15.7	16.1	16.4	100.0	100.0	100.0	98.2	2.4	16.2	16.3	16.5	16.2	16.6	16.9
30 (181)	7.6	10.5	12.0	15.2	16.0	16.4	100.0	100.0	100.0	272.6	2.0	16.1	16.2	16.4	16.4	16.7	17.0
	0.5	5.4	12.0	14.3	16.6	22.4	45.8	96.8	100.0	1284.1	275	16.1	19.2	22.1	16.0	19.0	23.8

-99.00 indicate No data or Invalid data.

KERALA FOREST RESEARCH INSTITUTE, DAILY FOREST METEOROLOGICAL DATA  
Station 4, Eravikulam NP 1st July 1998 to 31st July 1998

Day	Wind speed			Temperature			Humidity			Rain	Solar	Soil(15cm)			Soil(30cm)		
	m/s			oC			%			mm	MJ/m2	temp oC			temp oC		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Total	Total	Min	Avg	Max	Min	Avg	Max
1 (182)	8.8	9.9	11.8	13.0	15.3	16.5	98.6	99.9	100.0	135.2	2.9	15.6	15.9	16.1	15.3	16.1	16.9
2 (183)	7.5	9.0	10.7	15.2	15.6	16.0	98.6	99.9	100.0	80.4	5.2	15.6	15.8	16.1	15.6	16.1	16.8
3 (184)	4.9	6.9	9.0	15.1	15.6	16.2	100.0	100.0	100.0	76.0	4.7	15.8	16.1	16.4	15.7	16.5	17.6
4 (185)	4.4	5.8	8.1	14.6	15.4	16.0	100.0	100.0	100.0	44.6	5.1	16.0	16.2	16.4	15.7	16.3	17.0
5 (186)	3.7	5.2	6.4	14.8	15.5	16.0	93.4	99.2	100.0	11.0	5.8	16.3	16.4	16.5	16.1	16.6	17.3
6 (187)	4.6	6.4	8.2	14.7	15.5	16.3	93.2	97.3	100.0	12.8	6.8	16.4	16.5	16.5	15.8	16.4	17.0
7 (188)	4.1	5.7	6.9	14.6	15.6	16.9	92.0	96.5	100.0	1.6	10.4	16.5	16.6	16.8	16.1	16.8	17.9
8 (189)	5.6	6.8	7.7	14.6	15.4	16.2	92.7	97.1	100.0	2.6	6.8	16.7	16.8	16.8	16.3	16.8	17.3
9 (190)	6.1	7.1	8.9	14.5	15.3	15.9	98.6	99.8	100.0	23.2	5.0	16.7	16.8	16.8	16.3	16.7	17.2
10 (191)	4.6	5.8	7.6	14.7	16.2	17.3	94.6	98.5	100.0	23.0	9.3	16.6	16.8	17.2	16.1	17.0	18.2
11 (192)	3.5	4.3	5.3	15.2	16.2	17.0	97.1	99.4	100.0	61.2	7.2	16.8	17.0	17.2	16.3	17.3	18.3
12 (193)	0.7	3.3	4.5	16.3	16.8	17.9	90.5	98.5	100.0	61.0	7.7	16.9	17.1	17.4	16.7	17.8	19.0
13 (194)	0.2	2.4	5.1	15.9	17.0	19.1	72.6	95.1	100.0	12.4	9.7	17.4	17.5	17.7	17.5	18.4	19.5
14 (195)	0.5	1.9	3.9	15.9	17.7	20.1	80.7	91.7	100.0	18.2	14.2	17.5	17.8	18.1	17.2	18.8	20.5
15 (196)	0.5	3.5	10.3	15.1	17.4	19.5	67.3	87.0	100.0	0.4	20.2	18.0	18.1	18.4	17.8	19.1	20.5
16 (197)	0.8	1.9	4.6	14.4	16.5	18.7	83.3	96.0	100.0	12.4	12.0	18.1	18.3	18.5	17.7	19.0	20.3
17 (198)	0.3	2.2	4.4	14.9	16.4	18.1	91.1	99.0	100.0	3.8	16.4	18.2	18.4	18.7	17.9	19.3	20.8
18 (199)	0.3	1.3	2.5	15.5	16.7	18.7	80.3	96.1	100.0	21.2	9.1	18.4	18.6	18.7	18.1	19.2	20.2
19 (200)	0.3	1.9	2.8	14.9	15.4	16.1	100.0	100.0	100.0	38.6	3.7	18.2	18.4	18.7	17.6	18.1	18.7
20 (201)	1.4	3.4	5.0	14.7	15.4	16.7	100.0	100.0	100.0	6.4	7.9	17.9	18.1	18.2	17.4	18.2	19.2
21 (202)	2.5	4.1	5.5	14.8	15.8	16.6	81.6	97.7	100.0	4.0	9.5	17.9	18.0	18.1	17.2	18.2	19.3
22 (203)	2.2	3.5	4.8	15.7	16.6	18.4	76.9	94.6	100.0	8.4	14.3	17.8	18.0	18.2	17.0	18.3	19.7
23 (204)	2.4	3.5	4.8	15.6	16.6	18.2	87.3	96.6	100.0	21.0	16.2	18.0	18.2	18.5	17.6	18.9	20.5
24 (205)	1.5	3.5	6.6	14.9	16.5	18.9	69.8	91.0	100.0	16.2	15.5	18.2	18.4	18.6	17.5	18.8	20.2
25 (206)	3.6	4.6	5.5	14.6	15.4	16.9	89.6	98.8	100.0	88.6	13.2	17.7	18.0	18.6	16.7	18.0	19.6
26 (207)	3.5	5.4	7.1	15.0	15.5	16.2	86.9	96.7	100.0	28.6	7.9	17.7	17.9	18.1	16.8	17.5	18.6
27 (208)	4.9	5.8	6.7	15.2	15.6	16.1	99.7	100.0	100.0	32.8	4.6	17.5	17.6	17.8	16.9	17.3	17.8
28 (209)	5.9	7.5	9.5	15.1	15.4	15.8	100.0	100.0	100.0	93.8	3.0	16.7	17.0	17.5	16.2	16.7	17.1
29 (210)	6.5	7.7	9.6	14.8	15.3	15.8	98.1	99.7	100.0	85.4	6.6	16.1	16.5	16.8	15.7	16.5	17.4
30 (211)	4.4	5.5	7.0	14.6	15.5	16.1	97.0	99.4	100.0	53.6	7.3	16.4	16.6	16.8	15.6	16.7	18.0
31 (212)	1.6	3.6	4.9	15.0	16.6	17.6	86.0	96.6	100.0	36.0	13.1	16.4	16.8	17.2	16.2	17.6	19.4
	0.2	4.8	11.8	13.0	16.0	20.1	67.3	97.5	100.0	1114.4	281	15.6	17.3	18.7	15.3	17.6	20.8

-99.00 indicate No data or Invalid data.

## KERALA FOREST RESEARCH INSTITUTE. DAILY FOREST METEOROLOGICAL DATA

Station 4. Eravikulam NP 1st July 1998 to 31st July 1998

Day	Wind speed			Temperature			Humidity			Rain	Solar	Soil(15cm)			Soil(30cm)		
	m/s			oc			%			mm	MJ/m2	temp oC			temp oC		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Total	Total	Min	Avg	Max	Min	Avg	Max
1 (182)	8.8	9.9	11.8	13.0	15.3	16.5	98.6	99.9	100.0	135.2	2.9	15.6	15.9	16.1	15.3	16.1	16.9
2 (183)	7.5	9.0	10.7	15.2	15.6	16.0	98.6	99.9	100.0	80.4	5.2	15.6	15.8	16.1	15.6	16.1	16.8
3 (184)	4.9	6.9	9.0	15.1	15.6	16.2	100.0	100.0	100.0	76.0	4.7	15.8	16.1	16.4	15.7	16.5	17.6
4 (185)	4.4	5.8	8.1	14.6	15.4	16.0	100.0	100.0	100.0	44.6	5.1	16.0	16.2	16.4	15.7	16.3	17.0
5 (186)	3.7	5.2	6.4	14.8	15.5	16.0	93.4	99.2	100.0	11.0	5.8	16.3	16.4	16.5	16.1	16.6	17.3
6 (187)	4.6	6.4	8.2	14.7	15.5	16.3	93.2	97.3	100.0	12.8	6.8	16.4	16.5	16.5	15.8	16.4	17.0
7 (188)	4.1	5.7	6.9	14.6	15.6	16.9	92.0	96.5	100.0	1.6	10.4	16.5	16.6	16.8	16.1	16.8	17.9
8 (189)	5.6	6.8	7.7	14.6	15.4	16.2	92.7	97.1	100.0	2.6	6.8	16.7	16.8	16.8	16.3	16.8	17.3
9 (190)	6.1	7.1	8.9	14.5	15.3	15.9	98.6	99.8	100.0	23.2	5.0	16.7	16.8	16.8	16.3	16.7	17.2
10 (191)	4.6	5.8	7.6	14.7	16.2	17.3	94.6	98.5	100.0	23.0	9.3	16.6	16.8	17.2	16.1	17.0	18.2
11 (192)	3.5	4.3	5.3	15.2	16.2	17.0	97.1	99.4	100.0	61.2	7.2	16.8	17.0	17.2	16.3	17.3	18.3
12 (193)	0.7	3.3	4.5	16.3	16.8	17.9	90.5	98.5	100.0	61.0	7.7	16.9	17.1	17.4	16.7	17.8	19.0
13 (194)	0.2	2.4	5.1	15.9	17.0	19.1	72.6	95.1	100.0	12.4	9.7	17.4	17.5	17.7	17.5	18.4	19.5
14 (195)	0.5	1.9	3.9	15.9	17.7	20.1	80.7	91.7	100.0	18.2	14.2	17.5	17.8	18.1	17.2	18.8	20.5
15 (196)	0.5	3.5	10.3	15.1	17.4	19.5	67.3	87.0	100.0	0.4	20.2	18.0	18.1	18.4	17.8	19.1	20.5
16 (197)	0.8	1.9	4.6	14.4	16.5	18.7	83.3	96.0	100.0	12.4	12.0	18.1	18.3	18.5	17.7	19.0	20.3
17 (198)	0.3	2.2	4.4	14.9	16.4	18.1	91.1	99.0	100.0	3.8	16.4	18.2	18.4	18.7	17.9	19.3	20.8
18 (199)	0.3	1.3	2.5	15.5	16.7	18.7	80.3	96.1	100.0	21.2	9.1	18.4	18.6	18.7	18.1	19.2	20.2
19 (200)	0.3	1.9	2.8	14.9	15.4	16.1	100.0	100.0	100.0	38.6	3.7	18.2	18.4	18.7	17.6	18.1	18.7
20 (201)	1.4	3.4	5.0	14.7	15.4	16.7	100.0	100.0	100.0	6.4	7.9	17.9	18.1	18.2	17.4	18.2	19.2
21 (202)	2.5	4.1	5.5	14.8	15.8	16.6	81.6	97.7	100.0	4.0	9.5	17.9	18.0	18.1	17.2	18.2	19.3
22 (203)	2.2	3.5	4.8	15.7	16.6	18.4	76.9	94.6	100.0	8.4	14.3	17.8	18.0	18.2	17.0	18.3	19.7
23 (204)	2.4	3.5	4.8	15.6	16.6	18.2	87.3	96.6	100.0	21.0	16.2	18.0	18.2	18.5	17.6	18.9	20.5
24 (205)	1.5	3.5	6.6	14.9	16.5	18.9	69.8	91.0	100.0	16.2	15.5	18.2	18.4	18.6	17.5	18.8	20.2
25 (206)	3.6	4.6	5.5	14.6	15.4	16.9	89.6	98.8	100.0	88.6	13.2	17.7	18.0	18.6	16.7	18.0	19.6
26 (207)	3.5	5.4	7.1	15.0	15.5	16.2	86.9	96.7	100.0	28.6	7.9	17.7	17.9	18.1	16.8	17.5	18.6
27 (208)	4.9	5.8	6.7	15.2	15.6	16.1	99.7	100.0	100.0	32.8	4.6	17.5	17.6	17.8	16.9	17.3	17.8
28 (209)	5.9	7.5	9.5	15.1	15.4	15.8	100.0	100.0	100.0	93.8	3.0	16.7	17.0	17.5	16.2	16.7	17.1
29 (210)	6.5	7.7	9.6	14.8	15.3	15.8	98.1	99.7	100.0	85.4	6.6	16.1	16.5	16.8	15.7	16.5	17.4
30 (211)	4.4	5.5	7.0	14.6	15.5	16.1	97.0	99.4	100.0	53.6	7.3	16.4	16.6	16.8	15.6	16.7	18.0
31 (212)	1.6	3.6	4.9	15.0	16.6	17.6	86.0	96.6	100.0	36.0	13.1	16.4	16.8	17.2	16.2	17.6	19.4
	0.2	4.8	11.8	13.0	16.0	20.1	67.3	97.5	100.0	1114.4	281	15.6	17.3	18.7	15.3	17.6	20.8

-99.00 indicate No data or Invalid data.



## KERALA FOREST RESEARCH INSTITUTE, DAILY FOREST METEOROLOGICAL DATA

Station 4. Eravikulam NP 1st August 1998 to 31st August 1998

Day	Wind speed			Temperature			Humidity			Rain	Solar	Soil(15cm)			Soil(30cm)		
	m/s			oC			%			mm	MJ/m2	temp oC			temp oC		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Total	Total	Min	Avg	Max	Min	Avg	Max
1 (213)	0.5	2.9	5.0	16.0	17.2	19.1	78.6	92.5	100.0	0.2	12.0	17.1	17.3	17.5	16.9	18.1	19.2
2 (214)	0.2	1.7	4.0	15.4	16.6	18.5	94.9	99.6	100.0	2.0	11.1	17.5	17.6	18.0	17.6	18.8	20.1
3 (215)	0.3	1.7	3.1	16.0	17.6	19.4	81.7	93.8	100.0	1.2	14.7	17.7	17.9	18.2	17.2	19.0	20.6
4 (216)	0.4	2.8	5.6	15.5	16.8	19.0	82.6	98.7	100.0	30.2	16.1	18.1	18.3	18.8	17.9	19.5	21.2
5 (217)	1.7	3.5	4.3	15.3	16.2	17.1	97.5	99.9	100.0	23.0	8.5	18.3	18.4	18.7	17.8	18.8	19.9
6 (218)	1.0	2.5	4.8	15.1	16.1	17.3	84.2	98.6	100.0	2.0	12.6	18.2	18.3	18.5	17.8	19.0	20.5
7 (219)	2.5	3.8	4.7	15.2	16.0	16.8	97.9	99.7	100.0	35.4	11.1	18.2	18.4	18.7	17.7	18.8	20.4
8 (220)	3.0	4.6	5.7	15.6	16.0	16.6	100.0	100.0	100.0	33.4	4.7	18.0	18.1	18.5	17.2	17.9	18.7
9 (221)	3.8	4.8	6.3	15.4	16.0	16.4	99.5	100.0	100.0	43.4	7.2	17.7	17.8	18.0	17.0	17.8	19.0
10 (222)	4.0	5.1	5.8	15.3	15.8	16.6	100.0	100.0	100.0	43.0	5.2	17.3	17.6	18.0	16.7	17.5	18.2
11 (223)	3.6	4.3	5.6	15.6	16.0	16.6	96.8	99.8	100.0	39.2	7.8	17.1	17.4	17.7	16.5	17.6	18.8
12 (224)	1.9	3.6	4.7	15.4	16.3	17.1	96.1	99.7	100.0	18.8	10.9	17.3	17.5	17.8	16.7	18.1	19.5
13 (225)	0.8	3.4	5.2	16.1	17.1	19.1	63.0	90.8	100.0	3.6	16.2	17.7	17.9	18.3	17.2	18.8	20.6
14 (226)	0.4	1.7	4.1	15.0	16.7	18.0	91.1	98.9	100.0	0.0	11.5	18.0	18.2	18.4	17.5	18.8	20.1
15 (227)	0.3	1.4	4.1	15.6	17.4	19.5	92.8	99.0	100.0	27.2	9.6	18.3	18.4	18.7	18.4	19.5	20.8
16 (228)	0.5	2.1	5.1	15.4	16.9	18.5	69.1	91.7	100.0	3.2	9.7	18.4	18.6	19.0	17.8	18.8	20.0
17 (229)	0.3	1.4	2.8	14.6	16.3	17.7	81.7	98.6	100.0	3.8	9.1	18.3	18.5	18.6	17.7	18.9	20.1
18 (230)	0.3	1.6	3.3	15.4	16.1	17.4	100.0	100.0	100.0	5.0	5.6	18.4	18.5	18.6	18.2	18.9	19.7
19 (231)	0.3	1.9	3.8	15.1	15.9	16.7	100.0	100.0	100.0	31.4	7.7	18.3	18.4	18.6	18.0	18.8	19.7
20 (232)	1.4	3.4	4.9	14.6	15.9	16.8	94.2	99.2	100.0	14.0	12.2	18.2	18.4	18.6	17.6	18.9	20.5
21 (233)	2.1	3.2	4.3	15.2	15.7	16.3	99.0	99.9	100.0	16.8	6.2	18.2	18.4	18.6	17.7	18.5	19.3
22 (234)	0.3	2.7	4.2	15.3	16.1	16.9	92.6	99.3	100.0	1.6	9.8	18.1	18.2	18.4	17.5	18.6	20.0
23 (235)	0.5	2.0	3.9	15.6	16.6	18.4	93.7	99.2	100.0	9.6	6.5	18.3	18.4	18.5	18.1	18.9	19.7
24 (236)	1.7	4.9	8.0	15.9	16.3	16.8	100.0	100.0	100.0	78.8	6.3	18.0	18.2	18.5	17.6	18.2	19.1
25 (237)	5.0	5.7	7.0	14.7	15.5	16.3	98.7	99.9	100.0	16.4	5.7	17.8	17.9	18.1	17.0	17.5	18.1
26 (238)	2.5	4.8	6.2	15.1	16.1	17.3	52.6	90.0	100.0	4.4	17.3	17.7	17.8	18.1	17.0	18.2	19.8
27 (239)	0.7	3.3	5.8	14.0	15.8	17.6	60.6	90.7	100.0	0.0	19.3	17.7	17.9	18.2	16.3	18.1	20.3
28 (240)	1.0	3.5	5.7	13.8	15.5	17.0	88.8	95.4	100.0	2.8	19.7	17.9	18.1	18.4	16.7	18.5	20.4
29 (241)	0.7	2.3	4.6	13.1	15.4	17.3	80.9	97.6	100.0	0.6	14.9	18.0	18.2	18.4	16.8	18.5	20.0
30 (242)	0.3	2.3	5.3	13.6	15.9	17.6	92.6	99.3	100.0	0.4	18.5	18.1	18.3	18.6	17.4	19.2	20.9
31 (243)	0.5	1.9	4.0	14.5	16.4	18.8	92.1	99.1	100.0	5.4	15.8	18.5	18.7	19.0	18.3	19.9	21.6
	0.2	3.1	8.0	13.1	16.3	19.5	52.6	97.8	100.0	496.8	343	17.1	18.1	19.0	16.3	18.6	21.6

-99.00 indicate No data or Invalid data.

## KERALA FOREST RESEARCH INSTITUTE, DAILY FOREST METEOROLOGICAL DATA

Station 4, Eravikulam NP 1st September 1998 to 30th September 1998

Day	Wind speed			Temperature			Humidity			Rain mm	Solar MJ/m2	Soil(15cm) temp oC			Soil(30cm) temp oC		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max			Min	Avg	Max	Min	Avg	Max
1 (244)	0.7	2.9	4.5	15.2	15.8	16.6	88.0	99.1	100.0	2.4	9.4	18.7	18.8	19.0	18.3	19.2	20.0
2 (245)	0.9	2.4	4.8	15.2	16.2	17.2	97.9	99.9	100.0	3.6	11.6	18.5	18.6	18.8	18.0	19.1	20.5
3 (246)	1.7	2.9	3.7	15.5	16.3	17.2	85.8	97.7	100.0	2.2	9.2	18.5	18.6	18.8	18.0	19.0	19.9
4 (247)	2.6	3.5	4.5	15.3	16.5	18.4	87.9	96.4	100.0	6.8	12.1	18.4	18.6	18.7	17.8	19.0	20.3
5 (248)	1.1	3.3	4.7	14.6	15.5	16.4	99.8	100.0	100.0	31.6	8.6	18.5	18.6	18.7	17.9	18.7	19.7
6 (249)	2.8	4.0	5.7	15.2	15.9	16.8	99.5	100.0	100.0	14.6	9.5	18.2	18.4	18.6	17.5	18.5	19.7
7 (250)	3.2	4.2	5.0	15.0	16.1	17.1	98.8	99.9	100.0	10.0	7.7	18.1	18.3	18.5	17.5	18.3	19.3
8 (251)	3.7	4.4	5.7	15.9	16.4	16.9	100.0	100.0	100.0	53.8	5.3	18.1	18.2	18.3	17.6	18.1	18.9
9 (252)	3.6	4.9	6.3	14.6	15.7	16.2	97.0	99.8	100.0	44.6	5.8	17.8	17.9	18.1	17.2	17.7	18.5
10 (253)	3.2	4.4	6.7	15.1	16.5	18.0	74.3	88.8	99.4	1.0	18.2	17.6	17.8	18.1	16.5	18.1	19.9
11 (254)	2.7	3.9	4.9	14.5	15.3	16.2	92.6	98.9	100.0	12.0	7.4	17.9	18.0	18.2	17.3	18.0	18.7
12 (255)	3.0	4.0	5.0	15.1	15.6	16.5	93.7	99.3	100.0	17.2	8.1	17.7	17.9	18.0	17.1	17.9	19.0
13 (256)	3.4	4.4	6.1	14.6	15.1	15.9	99.0	100.0	100.0	25.6	8.2	17.6	17.8	18.0	16.9	17.7	18.8
14 (257)	4.3	5.1	6.1	14.7	15.1	15.8	100.0	100.0	100.0	19.0	6.8	17.5	17.6	17.8	16.8	17.4	18.2
15 (258)	4.4	5.5	7.9	14.3	15.1	16.0	99.5	100.0	100.0	28.8	5.3	17.4	17.5	17.6	16.6	17.1	17.8
16 (259)	4.6	5.3	6.5	14.9	15.4	16.1	96.1	99.4	100.0	25.4	5.7	17.1	17.2	17.4	16.5	17.0	17.7
17 (260)	2.8	4.3	5.4	14.4	15.6	16.6	86.9	97.7	100.0	7.8	11.9	17.1	17.3	17.5	16.5	17.5	18.9
18 (261)	1.1	3.4	6.0	15.5	17.1	18.9	45.6	82.4	100.0	0.0	23.3	17.3	17.5	18.0	16.3	18.3	20.9
19 (262)	0.7	2.8	5.6	13.8	15.9	17.5	65.4	93.3	100.0	0.6	18.6	17.7	18.0	18.3	16.9	18.6	20.5
20 (263)	2.0	3.1	5.3	13.9	15.2	16.2	71.8	89.9	100.0	4.8	12.6	17.9	18.1	18.3	16.5	18.0	19.4
21 (264)	1.6	3.0	3.9	14.2	15.6	16.7	93.5	98.2	100.0	1.2	8.6	17.7	17.9	18.1	16.9	17.8	18.9
22 (265)	1.0	2.6	4.3	15.7	16.6	18.0	84.2	95.8	100.0	6.8	13.1	17.6	17.8	18.1	16.6	18.2	19.9
23 (266)	1.0	2.9	4.6	13.7	15.6	17.0	100.0	100.0	100.0	67.2	12.0	18.0	18.2	18.6	17.7	18.6	20.3
24 (267)	0.8	2.9	4.1	14.8	15.6	17.0	86.0	97.0	100.0	4.8	7.9	17.9	18.0	18.3	17.1	17.9	18.9
25 (268)	0.7	1.5	3.0	14.7	15.9	17.2	83.0	96.1	100.0	4.2	9.3	17.8	17.9	18.1	17.2	18.3	19.5
26 (269)	0.7	2.3	3.9	14.5	15.4	16.4	96.6	99.8	100.0	6.0	5.7	18.0	18.0	18.1	17.7	18.3	19.0
27 (270)	0.9	2.6	4.7	14.8	15.6	16.4	98.2	99.8	100.0	1.6	7.8	17.8	17.9	18.1	17.3	18.1	18.9
28 (271)	1.0	2.9	5.0	15.1	16.2	17.2	91.4	99.0	100.0	5.0	10.9	17.8	18.0	18.2	17.3	18.5	19.8
29 (272)	3.0	4.3	5.3	15.1	15.7	16.5	99.0	99.9	100.0	29.8	6.6	17.9	18.0	18.2	17.5	18.2	19.0
30 (273)	1.0	3.5	4.9	15.0	16.2	17.3	89.3	98.1	100.0	3.2	15.1	17.8	18.0	18.3	17.4	18.7	20.4
	0.7	3.6	7.9	13.7	15.8	18.9	45.6	97.5	100.0	441.6	302	17.1	18.0	19.0	16.3	18.2	20.9

-99.00 indicate No data or Invalid data.

KERALA FOREST RESEARCH INSTITUTE, DAILY FOREST METEOROLOGICAL DATA  
Station 4. Eravikulam NP 1st October 1998 to 31st October 1998

Day	Wind speed			Temperature			Humidity			Rain	Solar	Soil(15cm)			Soil(30cm)		
	m/s			oC			%			mm	MJ/m2	temp oC			temp oC		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Total	Total	Min	Avg	Max	Min	Avg	Max
1 (274)	0.5	2.1	5.0	14.1	16.2	17.6	72.2	94.4	100.0	0.2	15.6	18.0	18.2	18.5	17.1	18.9	20.7
2 (275)	0.5	2.5	4.4	14.8	16.2	17.4	100.0	100.0	100.0	1.8	13.6	18.4	18.5	18.7	18.1	19.3	20.8
3 (276)	2.6	4.0	5.9	14.9	15.7	17.0	74.3	94.1	100.0	4.6	6.2	18.4	18.6	18.7	17.6	18.6	19.3
4 (277)	2.7	3.7	5.5	14.8	15.6	16.8	77.7	92.1	100.0	4.4	16.6	18.0	18.2	18.4	16.7	18.4	20.4
5 (278)	2.0	3.3	4.3	14.3	15.3	16.6	81.5	94.2	100.0	4.0	7.9	18.0	18.1	18.4	17.0	17.9	18.6
6 (279)	2.0	3.2	4.6	15.0	15.9	17.0	89.9	98.8	100.0	2.8	10.0	17.8	18.0	18.1	17.1	18.2	19.4
7 (280)	2.8	3.6	4.8	15.2	16.0	17.0	88.7	97.7	100.0	3.4	10.8	18.0	18.1	18.3	17.5	18.5	19.9
8 (281)	2.4	3.1	4.0	14.9	15.7	16.5	87.9	98.4	100.0	9.0	7.1	18.0	18.1	18.3	17.4	18.2	19.1
9 (282)	2.8	4.1	5.3	15.1	15.6	16.1	100.0	100.0	100.0	45.0	4.3	17.8	17.9	18.1	17.3	17.7	18.1
10 (283)	2.3	4.0	5.4	14.9	15.9	16.5	100.0	100.0	100.0	44.8	5.1	17.6	17.7	17.8	17.0	17.6	18.3
11 (284)	3.5	5.2	6.7	15.7	16.2	16.7	100.0	100.0	100.0	150.0	3.8	17.3	17.4	17.7	17.0	17.4	17.9
12 (285)	2.8	5.0	7.2	15.0	15.4	15.9	98.0	99.8	100.0	57.4	3.7	17.0	17.1	17.3	16.5	16.9	17.2
13 (286)	2.6	3.2	4.0	15.1	15.6	16.4	98.6	99.9	100.0	6.6	6.9	17.0	17.1	17.3	16.5	17.2	18.2
14 (287)	4.0	5.3	6.9	14.3	15.3	16.1	99.8	100.0	100.0	99.0	3.8	16.9	17.1	17.3	16.5	16.9	17.3
15 (288)	3.8	4.9	5.8	14.1	14.9	15.8	98.1	99.8	100.0	11.6	6.3	16.8	16.9	17.0	16.1	16.7	17.5
16 (289)	2.1	3.8	5.2	14.6	15.6	16.6	95.7	98.7	100.0	0.4	9.6	16.8	16.9	17.1	16.1	17.2	18.4
17 (290)	1.9	3.2	4.4	15.2	16.1	17.0	96.2	99.7	100.0	2.0	11.2	17.1	17.2	17.5	16.8	18.0	19.3
18 (291)	3.4	4.1	4.7	15.0	15.6	16.6	96.3	99.8	100.0	10.8	10.5	17.4	17.5	17.7	17.3	18.1	19.3
19 (292)	1.8	3.8	6.3	14.8	16.3	18.4	49.0	83.1	100.0	0.0	23.9	17.4	17.7	18.1	16.5	18.7	21.3
20 (293)	0.2	3.3	5.9	14.1	16.2	17.6	51.6	86.2	100.0	0.0	21.3	17.7	18.0	18.3	16.5	18.7	21.0
21 (294)	0.3	1.6	3.3	14.8	16.3	18.5	81.4	93.2	100.0	0.0	24.5	18.0	18.3	18.8	17.3	19.7	22.6
22 (295)	0.7	1.8	3.3	14.8	16.1	18.0	75.4	92.7	100.0	0.0	22.8	18.5	18.8	19.2	17.7	20.3	22.9
23 (296)	0.8	2.5	4.7	14.6	16.4	17.9	69.2	91.0	100.0	0.0	23.3	18.9	19.2	19.6	18.3	20.7	23.2
24 (297)	0.3	1.3	2.8	14.9	16.6	18.4	77.0	90.2	100.0	0.0	14.6	19.0	19.3	19.6	18.0	20.0	21.8
25 (298)	0.3	1.6	3.8	15.2	16.7	18.4	80.6	92.3	98.5	7.4	17.9	19.0	19.2	19.5	18.0	20.1	22.5
26 (299)	0.3	1.3	3.0	14.1	15.8	17.2	92.2	98.3	100.0	12.2	7.5	19.0	19.2	19.5	18.4	19.4	20.1
27 (300)	0.5	1.7	5.9	15.3	16.7	18.2	77.4	94.0	100.0	2.4	10.1	18.7	18.8	19.1	18.0	19.0	20.0
28 (301)	0.5	2.4	5.6	15.4	16.8	18.6	82.6	93.3	100.0	0.2	11.8	18.6	18.8	18.9	18.2	19.3	20.7
29 (302)	0.6	1.8	3.9	14.9	16.7	18.7	85.2	92.5	96.9	0.0	14.2	18.6	18.8	19.0	17.6	19.2	20.6
30 (303)	0.6	1.9	4.0	14.6	16.2	17.8	63.6	92.2	100.0	0.0	11.8	18.6	18.8	19.0	17.4	19.0	20.4
31 (304)	0.5	2.0	6.6	12.5	15.4	18.1	82.1	96.6	100.0	31.2	7.6	18.5	18.7	18.9	17.6	18.6	19.7
	0.2	3.1	7.2	12.5	16.0	18.7	49.0	95.6	100.0	511.2	364	16.8	18.1	19.6	16.1	18.5	23.2

-99.00 indicate No data or Invalid data.

KERALA FOREST RESEARCH INSTITUTE, DAILY FOREST METEOROLOGICAL DATA  
Station 4, Eravikulam NP 1st November 1998 to 30th November 1998

Day	Wind speed			Temperature			Humidity			Rain	Solar	Soil(15cm)			Soil(30cm)		
	m/s			oC			%			mm	MJ/m2	temp oC			temp oC		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Total	Total	Min	Avg	Max	Min	Avg	Max
1 (305)	0.3	1.2	2.8	13.2	15.5	17.5	86.7	96.8	100.0	9.8	10.7	18.1	18.3	18.6	16.8	18.2	19.5
2 (306)	0.2	1.5	4.0	14.2	15.5	17.3	91.6	97.8	100.0	1.2	8.6	18.2	18.3	18.5	17.6	18.5	19.4
3 (307)	0.2	1.6	5.2	14.6	15.3	16.9	90.3	97.8	100.0	5.8	5.9	18.2	18.3	18.4	17.6	18.1	18.7
4 (308)	0.4	2.4	5.5	14.4	15.0	16.0	92.6	99.4	100.0	17.0	6.2	17.8	18.0	18.2	17.0	17.6	18.2
5 (309)	0.8	3.8	8.0	15.1	16.0	17.3	90.5	97.0	100.0	5.0	12.0	17.7	17.8	18.0	17.1	17.9	19.1
6 (310)	1.0	2.8	12.3	15.8	16.9	18.2	79.9	93.5	100.0	1.0	11.3	17.8	18.0	18.3	17.0	18.5	20.0
7 (311)	0.3	1.5	3.0	15.6	17.0	19.3	87.5	96.8	100.0	6.4	12.4	18.1	18.3	18.6	17.4	19.0	20.5
8 (312)	0.4	1.6	3.1	15.2	16.7	19.4	86.8	96.8	100.0	24.4	9.5	18.5	18.6	18.8	18.1	19.3	20.5
9 (313)	0.4	1.4	3.3	15.2	16.4	18.8	85.2	97.0	100.0	6.4	11.7	18.5	18.7	18.9	17.9	19.4	20.8
10 (314)	0.4	1.3	2.0	15.3	16.3	17.4	97.2	99.7	100.0	15.4	6.3	18.6	18.7	18.9	18.1	19.0	19.6
11 (315)	0.6	2.5	5.5	14.4	16.7	20.0	58.6	85.1	100.0	0.2	23.6	18.5	18.7	19.1	17.9	19.6	21.8
12 (316)	0.7	2.9	5.6	14.1	16.7	19.8	52.1	73.9	91.4	0.0	23.3	18.5	18.8	19.1	17.0	18.9	21.0
13 (317)	1.0	2.0	4.4	14.8	15.8	17.2	91.4	97.5	100.0	0.0	10.9	18.6	18.8	19.0	17.7	19.0	20.4
14 (318)	0.5	2.3	5.3	14.1	15.9	18.4	79.3	96.0	100.0	8.2	17.8	18.7	18.9	19.3	18.1	19.8	22.0
15 (319)	0.9	3.3	5.9	14.3	15.6	16.9	45.3	82.7	100.0	0.0	16.8	18.7	19.0	19.3	17.4	19.0	20.9
16 (320)	1.5	3.7	5.6	14.3	15.8	17.1	38.2	75.5	100.0	2.2	23.7	18.3	18.7	19.0	16.2	18.9	21.7
17 (321)	0.8	2.5	5.3	14.9	16.1	18.9	65.2	85.0	100.0	0.0	18.2	18.7	18.9	19.2	17.4	19.6	21.7
18 (322)	0.5	2.5	5.2	15.0	16.5	17.8	70.4	87.7	100.0	0.0	18.5	18.8	19.1	19.4	17.8	19.9	22.0
19 (323)	0.7	2.9	5.5	14.4	16.3	17.7	60.6	80.3	100.0	0.0	24.1	18.9	19.2	19.6	17.7	20.1	22.9
20 (324)	0.4	2.1	5.0	14.0	15.8	18.0	66.0	82.3	100.0	0.0	24.1	19.0	19.4	19.8	17.4	20.3	23.4
21 (325)	0.4	2.0	4.4	14.1	15.6	17.3	74.0	90.3	99.8	0.0	19.6	19.2	19.5	19.8	17.9	20.1	22.4
22 (326)	0.5	2.0	4.0	14.2	16.4	18.0	72.1	85.5	99.4	0.0	23.8	19.1	19.5	19.9	17.6	20.4	23.4
23 (327)	0.3	2.1	4.6	14.6	16.5	18.6	74.4	86.2	94.0	0.0	20.0	19.3	19.6	19.9	18.0	20.4	23.0
24 (328)	0.5	1.9	4.0	15.1	16.6	18.5	68.6	84.2	96.7	0.0	19.0	19.3	19.6	19.9	17.9	20.3	22.9
25 (329)	0.6	1.8	3.9	15.2	16.6	18.3	63.7	81.8	100.0	0.0	19.6	19.3	19.7	20.0	17.8	20.5	23.2
26 (330)	0.3	1.6	4.1	14.3	16.2	18.6	76.0	85.8	93.5	0.0	14.0	19.4	19.6	20.0	18.0	19.9	21.7
27 (331)	0.3	2.3	4.8	14.4	15.9	17.6	82.7	92.6	100.0	0.0	15.2	19.1	19.4	19.7	17.6	19.7	21.9
28 (332)	0.4	2.2	5.4	14.4	15.7	17.3	88.7	94.9	100.0	0.0	17.5	19.1	19.4	19.6	17.6	19.9	22.1
29 (333)	0.2	1.9	4.9	13.9	15.9	17.9	84.8	95.5	100.0	0.0	15.5	19.3	19.6	19.8	18.5	20.6	22.6
30 (334)	0.4	2.1	4.3	14.9	16.8	19.6	68.2	86.7	100.0	0.0	19.0	19.3	19.6	20.0	18.0	20.6	23.4
	0.2	2.2	12.3	13.2	16.1	20.0	38.2	90.1	100.0	103.0	479	17.7	18.9	20.0	16.2	19.4	23.4

-99.00 indicate No data or Invalid data.

KERALA FOREST RESEARCH INSTITUTE. DAILY FOREST METEOROLOGICAL DATA  
Station 4. Eravikulam NP 1st December 1998 to 31st December 1998

Day	Wind speed			Temperature			Humidity			Rain mm	Solar MJ/m2	Soil(15cm) temp oC			Soil(30cm) temp oc		
	m/s			oc			%										
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Total	Total	Min	Avg	Max	Min	Avg	Max
1 (335)	0.3	1.3	2.6	15.0	16.0	18.0	88.8	97.3	100.0	5.8	8.0	19.6	19.7	20.0	19.1	20.0	20.8
2 (336)	0.5	2.8	5.3	15.1	16.7	19.1	62.5	85.9	98.0	0.0	15.2	19.2	19.4	19.6	18.2	19.7	21.7
3 (337)	0.8	3.5	6.2	14.2	16.3	18.9	59.1	81.4	97.5	0.0	17.8	19.0	19.3	19.6	17.2	19.4	21.9
4 (338)	2.1	4.5	8.0	14.6	16.6	20.8	70.0	86.1	94.4	0.0	14.3	19.0	19.3	19.5	17.8	19.4	21.3
5 (339)	1.2	4.1	6.8	14.9	16.3	18.6	85.8	94.0	100.0	4.0	11.3	19.0	19.2	19.4	18.1	19.3	21.0
6 (340)	0.8	4.3	8.9	14.9	16.2	18.4	68.7	83.2	93.5	0.0	10.7	18.9	19.0	19.3	17.9	18.6	19.4
7 (341)	4.1	7.0	11.7	15.5	16.8	18.4	65.9	83.6	95.2	0.0	15.1	18.5	18.6	18.9	17.1	18.3	20.0
8 (342)	3.1	8.5	15.7	14.7	15.5	16.6	88.5	95.3	100.0	8.4	9.5	18.4	18.5	18.8	17.2	17.8	18.5
9 (343)	0.8	6.9	12.3	14.7	16.0	17.4	90.4	97.5	100.0	3.2	10.7	18.0	18.1	18.3	17.0	17.7	18.6
10 (344)	0.9	3.5	7.0	15.4	16.8	18.3	89.2	96.8	100.0	8.8	7.8	18.0	18.1	18.3	17.2	18.1	19.0
11 (345)	1.9	5.0	7.8	15.3	16.5	17.4	82.4	93.8	100.0	15.4	4.1	17.9	18.0	18.3	17.0	17.4	18.1
12 (346)	1.3	6.6	10.0	14.6	16.0	17.5	78.3	89.7	100.0	0.6	9.6	17.6	17.8	17.9	16.7	17.3	18.3
13 (347)	0.3	2.4	4.7	14.5	16.5	20.1	76.0	90.9	100.0	1.4	11.0	17.6	17.8	18.0	16.6	17.8	19.3
14 (348)	0.5	1.7	5.0	14.5	15.7	18.0	82.2	93.1	100.0	0.2	6.2	17.9	18.0	18.1	17.2	18.0	18.8
15 (349)	0.3	1.9	4.8	13.8	15.3	17.2	87.0	97.3	11.0	1.8	10.6	17.6	17.8	18.1	16.2	17.5	19.0
16 (350)	0.3	1.5	2.8	14.5	15.8	17.1	92.6	98.7	100.0	0.0	9.4	17.9	18.0	18.2	17.3	18.4	19.5
17 (351)	0.8	3.0	5.9	13.5	15.7	18.5	72.3	88.3	100.0	0.0	16.5	17.9	18.2	18.4	16.6	18.5	20.4
18 (352)	0.8	2.5	4.8	13.6	15.4	16.8	77.7	91.6	100.0	0.0	15.5	18.0	18.2	18.5	16.3	18.4	20.5
19 (353)	0.5	2.2	4.4	14.4	16.3	18.3	75.2	89.4	99.8	0.0	17.0	18.2	18.4	18.8	17.0	19.2	21.3
20 (354)	0.3	2.0	4.8	13.9	15.3	16.5	82.9	93.7	180.0	0.0	10.9	18.5	18.6	18.8	17.5	18.7	19.7
21 (355)	0.7	2.6	5.9	13.9	15.5	17.7	72.2	86.0	100.0	0.0	15.8	18.1	18.4	18.7	16.3	18.3	20.4
22 (356)	0.6	2.7	6.2	13.7	15.5	17.4	60.1	83.9	100.0	0.0	19.0	18.1	18.4	18.7	16.2	18.6	21.1
23 (357)	0.4	2.0	4.0	12.6	15.7	18.7	32.4	69.1	97.2	0.0	24.6	18.2	18.6	19.0	16.3	19.4	22.6
24 (358)	0.3	2.5	6.2	14.0	15.8	18.8	27.9	57.6	75.5	0.0	22.5	18.4	18.8	19.1	16.3	19.2	22.3
25 (359)	0.7	2.9	6.5	12.2	15.3	18.0	10.6	50.5	75.7	0.0	22.8	18.4	18.7	19.1	16.0	18.8	21.8
26 (360)	0.5	1.9	3.5	11.0	14.7	18.5	45.2	73.9	92.5	0.0	22.6	18.2	18.6	19.0	15.8	19.0	22.5
27 (361)	1.7	4.4	7.0	13.5	15.3	16.6	87.3	95.2	100.0	0.0	16.4	18.6	18.9	19.1	17.9	19.5	21.3
28 (362)	1.3	4.9	10.2	13.5	15.6	18.4	82.0	95.2	100.0	0.0	13.4	18.7	18.9	19.1	18.1	19.4	21.0
29 (363)	1.2	5.3	8.0	14.7	16.7	19.9	55.6	80.4	93.6	0.0	18.5	18.6	18.9	19.1	17.8	19.4	21.5
30 (364)	0.5	2.8	6.2	14.3	16.1	18.9	60.8	79.5	94.7	0.0	19.2	18.6	18.9	19.3	17.2	19.6	22.4
31 (365)	0.5	2.7	4.8	13.7	16.1	18.9	62.0	83.8	100.0	0.4	14.2	18.8	19.1	19.3	17.5	19.7	22.1
	0.3	3.5	15.7	11.0	15.9	20.8	10.6	86.5	100.0	50.0	440	17.6	18.6	20.0	15.8	18.7	22.6

-99.00 indicate No data or Invalid data.

KERALA FOREST RESEARCH INSTITUTE. DAILY FOREST METEOROLOGICAL DATA  
Station 4, Eravikulam NP 1st January 1999 to 31st January 1999

Day	Wind speed			Temperature			Humidity			Rain	Solar	Soil(15cm)			Soil(30cm)		
	m/s			oC			%			mm	MJ/m2	temp oC			temp oC		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Total	Total	Min	Avg	Max	Min	Avg	Max
1 ( 1)	0.9	2.8	4.0	14.1	16.3	19.0	75.1	88.3	97.1	0.0	15.0	18.8	19.1	19.3	17.7	19.6	21.5
2 ( 2)	0.8	3.0	6.3	13.4	15.2	17.1	64.5	83.8	91.9	0.0	14.7	18.9	19.1	19.3	17.9	19.4	20.8
3 ( 3)	0.3	1.7	3.9	13.7	16.5	19.0	18.9	57.7	98.7	0.0	21.2	18.4	18.8	19.2	16.0	19.2	22.8
4 ( 4)	0.1	1.5	4.5	13.7	16.4	19.8	43.0	66.5	87.5	0.0	22.2	18.8	19.1	19.6	17.5	20.4	23.9
5 ( 5)	0.1	1.9	5.0	13.6	15.9	18.3	68.9	83.0	100.0	0.0	23.1	19.1	19.4	19.9	18.0	21.0	24.4
6 ( 6)	0.3	2.0	5.5	13.3	15.9	18.3	69.7	84.2	100.0	0.0	22.7	19.5	19.8	20.3	18.6	21.6	24.9
7 ( 7)	0.8	2.9	5.9	14.4	16.2	18.5	38.6	67.9	100.0	0.0	22.0	19.5	19.9	20.3	18.3	21.3	24.5
8 ( 8)	0.3	2.5	5.3	14.5	15.8	18.4	77.5	85.6	94.6	0.0	16.2	19.7	20.0	20.3	18.9	21.0	23.4
9 ( 9)	0.4	2.6	4.8	14.3	15.5	18.0	63.9	81.2	94.6	0.0	15.8	19.5	19.8	20.1	18.2	20.4	22.6
10 ( 10)	0.5	2.6	4.7	13.6	15.7	18.6	60.3	78.8	92.3	0.0	19.5	19.2	19.6	19.9	17.8	20.5	23.6
11 ( 11)	1.0	4.0	7.2	12.7	14.8	17.7	76.0	88.6	98.6	0.0	17.9	19.3	19.6	19.9	18.0	20.4	22.8
12 ( 12)	0.5	2.1	4.3	13.1	15.4	18.1	63.8	77.6	89.6	0.0	24.5	19.2	19.6	20.1	17.8	21.0	24.7
13 ( 13)	0.8	3.2	6.7	13.2	15.4	18.6	43.0	69.0	89.2	0.0	20.9	19.4	19.8	20.1	18.0	21.0	24.1
14 ( 14)	0.9	4.5	7.4	13.0	15.7	19.0	62.2	74.3	90.3	0.0	18.9	19.4	19.7	20.1	18.0	20.6	23.3
15 ( 15)	0.4	5.1	7.9	13.3	15.5	19.0	61.9	82.4	96.3	0.0	22.2	19.3	19.7	20.0	18.3	20.9	24.1
16 ( 16)	0.1	2.0	4.7	14.1	15.9	18.2	62.3	82.9	97.1	0.0	19.8	19.4	19.8	20.1	18.2	21.0	23.9
17 ( 17)	0.3	1.9	4.1	15.0	16.4	17.9	46.6	72.6	94.3	0.0	16.6	19.5	19.8	20.1	18.2	20.8	23.5
18 ( 18)	0.6	3.1	6.3	13.8	16.6	19.9	47.7	71.8	90.0	0.0	23.3	19.4	19.8	20.2	18.3	21.2	24.6
19 ( 19)	0.6	2.5	5.8	14.2	16.6	19.7	41.6	65.9	82.3	0.0	23.2	19.6	20.0	20.4	18.6	21.5	24.9
20 ( 20)	0.6	2.7	4.8	13.0	17.2	20.3	31.0	56.5	81.4	0.0	24.2	19.8	20.2	20.6	18.7	21.8	25.4
21 ( 21)	0.7	2.7	6.7	13.9	16.4	18.8	10.5	44.7	73.0	0.0	20.6	19.8	20.2	20.6	18.4	21.1	23.7
22 ( 22)	1.3	3.4	6.1	13.8	16.3	19.4	11.3	46.8	71.2	0.0	20.0	19.6	20.0	20.3	18.2	20.9	23.9
23 ( 23)	0.6	2.7	5.6	12.9	16.1	20.0	15.7	51.8	89.0	0.0	22.5	19.5	19.9	20.3	18.3	21.1	24.4
24 ( 24)	1.5	4.3	6.4	12.7	14.8	18.7	30.4	61.6	91.4	0.0	15.0	19.5	19.8	20.3	18.1	19.8	21.6
25 ( 25)	1.3	4.5	7.4	12.6	15.1	18.1	28.9	43.6	67.9	0.0	20.5	19.0	19.3	19.7	17.5	19.8	22.5
26 ( 26)	0.8	5.0	12.3	14.1	17.7	21.0	6.2	27.0	56.6	0.0	24.4	18.9	19.3	19.7	17.3	20.2	23.8
27 ( 27)	0.8	2.8	7.8	14.7	16.8	19.8	17.0	34.1	64.0	0.0	24.4	19.1	19.5	19.9	17.5	20.6	24.2
28 ( 28)	0.4	2.3	4.9	12.6	15.4	17.9	28.4	63.0	95.3	0.0	21.2	19.2	19.6	20.0	17.7	20.8	24.3
29 ( 29)	0.4	2.5	5.5	13.7	15.8	19.1	57.2	72.5	91.6	0.0	21.1	19.3	19.7	20.0	18.0	21.0	24.0
30 ( 30)	0.5	2.2	4.3	13.0	15.9	18.8	55.3	72.3	94.5	0.0	20.1	19.4	19.8	20.2	18.1	21.2	24.4
31 ( 31)	0.4	2.4	5.0	13.6	16.2	19.3	55.8	77.8	89.5	0.0	23.0	19.5	19.9	20.4	18.5	21.6	25.0
	0.1	2.9	12.3	12.6	16.0	21.0	6.2	68.2	100.0	0.0	637	18.4	19.7	20.6	16.0	20.7	25.4

-99.00 indicate No data or Invalid data.

KERALA FOREST RESEARCH INSTITUTE, DAILY FOREST METEOROLOGICAL DATA  
Station 4. Eravikulam NP 1st February 1999 to 28th February 1999

Day	Wind speed			Temperature			Humidity			Rain	Solar	Soil(15cm)			Soil(30cm)		
	m/s			oC			%			mm	MJ/m2	temp oC			temp oC		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Total	Total	Min	Avg	Max	Min	Avg	Max
1 ( 32)	0.6	2.2	4.0	14.0	16.4	19.5	28.5	60.2	90.4	0.0	22.9	19.7	20.1	20.5	18.6	21.8	25.2
2 ( 33)	0.4	2.4	4.1	13.6	16.5	19.5	47.2	67.3	86.5	0.0	24.3	19.8	20.3	20.8	18.7	22.2	26.0
3 ( 34)	0.6	2.8	4.5	14.2	16.4	18.8	76.7	87.8	96.4	0.0	18.4	20.2	20.6	20.8	19.8	22.4	24.8
4 ( 35)	0.2	2.1	5.0	14.9	16.9	19.5	81.5	91.2	100.0	10.4	23.1	20.3	20.6	21.1	19.7	22.7	26.1
5 ( 36)	0.3	2.3	5.5	15.8	17.1	18.8	67.8	86.9	100.0	1.0	12.2	20.4	20.7	21.1	19.6	21.2	22.7
6 ( 37)	1.5	6.3	9.5	16.1	17.8	19.6	58.9	71.6	89.7	0.0	23.3	19.7	20.0	20.5	18.3	20.4	23.0
7 ( 38)	1.7	5.3	10.3	15.4	16.9	18.6	52.9	76.9	91.9	0.0	16.7	19.5	19.9	20.2	18.1	20.4	22.9
8 ( 39)	0.5	1.9	4.0	14.8	16.0	18.3	79.8	90.1	99.1	7.0	10.6	19.5	19.7	20.1	18.3	19.7	21.1
9 ( 40)	0.3	2.0	5.8	14.0	15.9	18.5	78.9	85.8	92.1	9.0	15.6	18.8	19.2	19.6	16.7	18.8	21.1
10 ( 41)	0.3	2.0	3.9	15.0	16.6	19.4	61.9	81.1	93.9	0.2	17.7	18.5	18.9	19.2	16.3	18.8	21.5
11 ( 42)	0.6	3.1	7.9	14.3	16.1	18.6	67.2	79.0	89.5	0.0	16.9	18.7	19.0	19.2	17.0	19.0	21.0
12 ( 43)	1.1	4.5	9.0	13.1	16.1	19.5	52.1	67.4	81.4	0.0	25.6	18.5	18.9	19.4	16.4	19.5	23.2
13 ( 44)	1.1	5.4	8.7	14.8	17.1	19.7	51.2	69.6	80.7	0.0	22.0	19.0	19.4	19.8	17.8	20.5	23.5
14 ( 45)	1.5	4.0	7.3	15.6	18.7	21.2	27.6	58.9	79.7	0.0	23.8	19.3	19.7	20.3	18.3	21.3	25.0
15 ( 46)	0.7	6.2	12.0	14.8	18.2	20.9	29.7	60.4	85.4	0.0	22.3	19.8	20.1	20.5	19.0	21.7	25.0
16 ( 47)	2.1	7.9	12.7	16.8	17.9	19.9	48.6	64.0	86.5	0.0	17.5	19.9	20.2	20.5	19.3	21.5	23.9
17 ( 48)	2.3	7.1	9.8	16.8	17.9	19.7	32.0	49.4	63.0	0.0	25.7	19.8	20.1	20.5	18.9	21.4	24.5
18 ( 49)	1.1	5.8	9.4	15.9	17.6	19.0	34.3	62.6	87.0	0.0	20.9	19.9	20.2	20.5	19.1	21.5	24.1
19 ( 50)	1.7	5.6	17.1	13.2	15.6	17.6	49.2	69.2	91.9	0.0	9.8	19.7	20.1	20.5	19.2	19.9	21.4
20 ( 51)	1.7	4.8	11.4	13.0	14.9	17.4	73.8	93.1	100.0	0.0	11.4	19.1	19.4	19.7	18.1	19.3	20.7
21 ( 52)	2.6	5.1	8.8	15.7	17.2	18.9	68.0	78.8	89.2	0.0	17.6	19.1	19.3	19.8	18.4	20.5	23.0
22 ( 53)	0.8	3.0	6.5	14.3	16.1	18.0	45.3	70.2	90.9	0.0	15.3	19.4	19.6	19.9	18.5	20.2	21.9
23 ( 54)	1.0	4.2	7.8	13.7	16.1	18.7	52.0	70.6	90.1	0.0	24.2	19.2	19.5	20.0	17.8	20.6	23.9
24 ( 55)	0.5	4.7	11.3	13.1	16.4	19.8	42.6	54.4	73.5	0.0	26.3	19.3	19.7	20.0	17.9	20.8	24.0
25 ( 56)	1.8	5.0	8.0	14.4	17.6	21.2	26.8	40.6	74.1	0.0	26.1	19.5	19.9	20.4	18.6	21.3	24.8
26 ( 57)	0.9	2.9	5.7	15.6	18.0	21.1	20.1	35.5	61.4	0.0	26.4	19.7	20.1	20.6	18.4	21.7	25.6
27 ( 58)	1.1	3.7	9.9	15.3	17.6	19.7	19.4	48.0	73.4	0.0	24.2	20.0	20.4	20.8	18.9	22.1	25.6
	0.2	4.2	17.1	13.0	16.9	21.2	19.4	69.3	100.0	27.6	541	18.5	19.8	21.1	16.3	20.8	26.1

-99.00 indicate No data or Invalid data.

KERALA FOREST RESEARCH INSTITUTE. DAILY FOREST METEOROLOGICAL DATA  
Station 4. Eravikulam NP 1st March 1999 to 31st March 1999

Day	Wind speed			Temperature			Humidity			Rain mm	Solar MJ/m2	Soil(15cm)			Soil(30cm)		
	m/s			oC			%					temp oC			temp oC		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Total	Total	Min	Avg	Max	Min	Avg	Max
1 ( 60)	0.6	3.8	6.6	13.9	17.1	20.2	60.3	77.1	92.7	0.0	21.4	20.3	20.7	21.0	19.8	22.4	25.5
2 ( 61)	0.4	3.9	7.3	14.3	17.5	20.8	54.9	68.6	84.1	0.0	24.4	20.3	20.7	21.1	19.5	22.3	25.6
3 ( 62)	1.0	5.7	12.3	13.1	17.6	20.9	26.8	48.8	82.1	0.0	26.8	20.3	20.7	21.1	19.2	22.1	25.3
4 ( 63)	0.8	4.3	8.2	16.4	18.5	20.9	29.0	38.3	57.8	0.0	26.6	20.3	20.7	21.1	19.3	22.2	25.5
5 ( 64)	0.8	4.3	7.8	15.8	18.2	21.3	34.1	53.0	89.4	0.0	24.1	20.4	20.8	21.2	19.6	22.3	25.4
6 ( 65)	0.5	3.6	8.5	14.0	17.6	21.0	34.1	57.3	78.2	0.0	25.5	20.4	20.8	21.2	19.4	22.2	25.2
7 ( 66)	0.8	3.9	8.7	14.5	17.9	21.2	25.7	40.0	65.0	0.0	26.2	20.3	20.7	21.1	18.9	21.8	24.9
6 ( 67)	0.8	4.2	9.1	16.0	18.6	21.5	24.3	33.7	75.9	0.0	26.4	20.3	20.7	21.0	19.0	21.9	25.2
9 ( 68)	0.4	3.5	8.8	15.7	18.2	21.7	29.2	42.8	85.1	0.0	26.5	20.3	20.7	21.0	19.1	22.0	25.1
10 ( 69)	0.5	3.1	7.7	14.9	18.0	21.5	32.4	51.8	67.2	0.0	25.8	20.3	20.7	21.1	19.1	21.9	25.0
11 ( 70)	0.6	2.5	7.6	14.6	17.7	22.2	20.2	56.4	100.0	0.0	25.5	20.3	20.7	21.0	18.9	21.9	25.2
12 ( 71)	0.2	2.0	5.3	15.5	17.6	19.5	35.7	67.1	100.0	0.0	20.3	20.4	20.8	21.1	19.2	22.0	24.9
13 ( 72)	0.4	2.3	5.1	15.3	17.3	19.8	76.5	90.7	100.0	0.0	21.1	20.4	20.8	21.1	19.5	22.3	25.2
14 ( 73)	0.3	2.5	5.3	15.7	18.1	20.3	74.2	88.9	100.0	0.0	18.3	20.8	21.1	21.4	20.6	23.0	25.6
15 ( 74)	0.4	2.3	5.3	16.0	18.8	22.1	61.4	82.3	98.0	0.0	21.6	20.8	21.1	21.6	20.1	22.9	26.1
16 ( 75)	0.7	1.9	4.4	15.8	17.8	20.2	70.4	82.9	95.7	0.4	15.4	20.9	21.3	21.6	20.3	22.4	24.3
17 ( 76)	0.6	2.3	4.9	16.1	17.7	19.8	45.9	76.9	100.0	5.8	17.8	20.5	20.9	21.3	19.0	21.7	24.8
18 ( 77)	0.6	2.1	5.9	15.3	18.0	21.1	41.8	79.4	100.0	0.0	20.2	20.1	20.5	21.0	18.0	20.8	23.6
19 ( 78)	0.5	1.9	3.5	17.7	19.5	21.7	36.4	64.8	96.2	0.0	21.8	20.1	20.5	21.0	18.3	21.6	25.4
20 ( 79)	0.2	2.2	4.2	17.6	19.7	22.1	34.1	58.9	100.0	0.0	22.8	20.4	20.8	21.3	19.1	22.4	26.0
21 ( 80)	0.3	2.7	4.6	18.3	19.9	22.5	30.1	51.8	98.0	0.0	20.4	20.7	21.1	21.4	19.8	22.6	25.6
22 ( 81)	0.5	3.0	5.2	18.0	19.6	22.1	29.8	57.0	100.0	0.0	22.8	20.8	21.2	21.6	19.8	22.8	26.2
23 ( 82)	0.3	2.6	4.2	18.4	19.8	22.1	34.7	61.5	100.0	0.0	20.9	21.0	21.4	21.7	20.3	23.2	26.2
24 ( 83)	0.4	1.8	3.8	16.0	18.5	20.8	40.4	72.8	100.0	2.4	14.9	21.1	21.4	21.8	20.4	22.4	24.6
25 ( 84)	0.4	2.1	4.5	15.8	18.7	21.0	36.6	80.4	100.0	0.0	16.3	20.5	20.8	21.4	18.8	21.1	23.1
26 ( 85)	0.2	2.0	5.5	17.2	19.1	21.0	45.6	75.7	100.0	0.0	13.7	20.4	20.6	20.9	19.1	21.1	22.9
27 ( 86)	0.3	2.2	4.9	16.7	19.2	22.0	33.5	69.4	100.0	0.0	18.4	20.3	20.6	21.0	19.1	21.7	24.3
28 ( 87)	0.2	2.1	4.8	15.4	18.5	21.5	57.6	85.9	100.0	0.0	21.0	20.6	21.0	21.4	20.0	22.7	25.5
29 ( 88)	0.1	3.2	7.1	16.4	19.9	23.5	28.8	55.4	83.0	0.0	23.8	20.9	21.2	21.5	20.3	22.6	25.0
30 ( 89)	0.4	2.2	5.0	17.8	19.6	23.2	32.5	55.3	86.7	0.0	23.1	20.9	21.2	21.6	19.9	22.7	25.9
31 ( 90)	0.4	2.8	7.3	16.5	19.4	23.0	29.3	57.4	84.7	0.0	24.6	21.0	21.4	21.7	20.3	22.9	25.8
	0.1	2.9	12.3	13.1	18.5	23.5	20.2	64.0	100.0	8.6	678	20.1	20.9	21.8	18.0	22.2	26.2

-99.00 indicate No data or Invalid data.



KERALA FOREST RESEARCH INSTITUTE  
 Monthly Meteorological Data: Eravikulam NP  
 Year= 1997

Day	Wind_speed			Temperature			Humidity			Rain	Solar	Sol(15cm)			Soil(30cm)		
	m/s			oC			%			mm	MJ/m2	oC			oC		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Total	Total	Min	Avg	Max	Min	Avg	Max
Jan	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
Feb	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
Mar	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
Apr	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
May	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
Jun	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
Jul	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
Aug	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0	0.0	-99	-99.0	-99.0	-99.0	-99.0	-99.0	-99.0
Sep	0.2	1.7	4.1	13.9	16.4	19.6	57.8	93.4	100.0	261.0	431	17.0	19.0	21.6	17.8	18.8	20.2
Oct	0.2	1.6	7.5	14.6	16.9	20.5	47.8	87.8	100.0	117.2	480	18.0	19.7	22.4	18.5	19.9	22.2
Nov	0.1	1.6	5.8	14.3	16.7	20.7	64.4	91.7	100.0	4.0	415	17.4	19.4	21.9	17.7	19.7	21.8
Dec	0.2	1.8	6.3	13.6	17.8	30.7	48.1	86.0	100.0	37.0	483	18.3	24.3	31.2	18.7	24.4	29.8
	0.1	1.7	7.5	13.6	17.0	30.7	47.8	89.7	100.0	419.2	1809	17.0	20.6	31.2	17.7	20.7	29.8

-99.00 indicate No data or Invalid data.

KERALA FOREST RESEARCH INSTITUTE  
 Monthly Meteorological Data: Eravikulam NP  
 Year= 1998

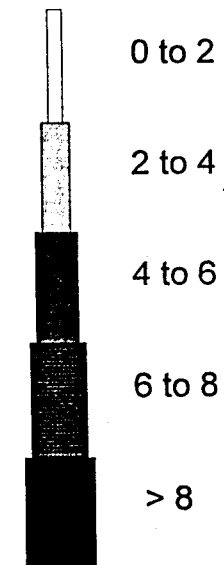
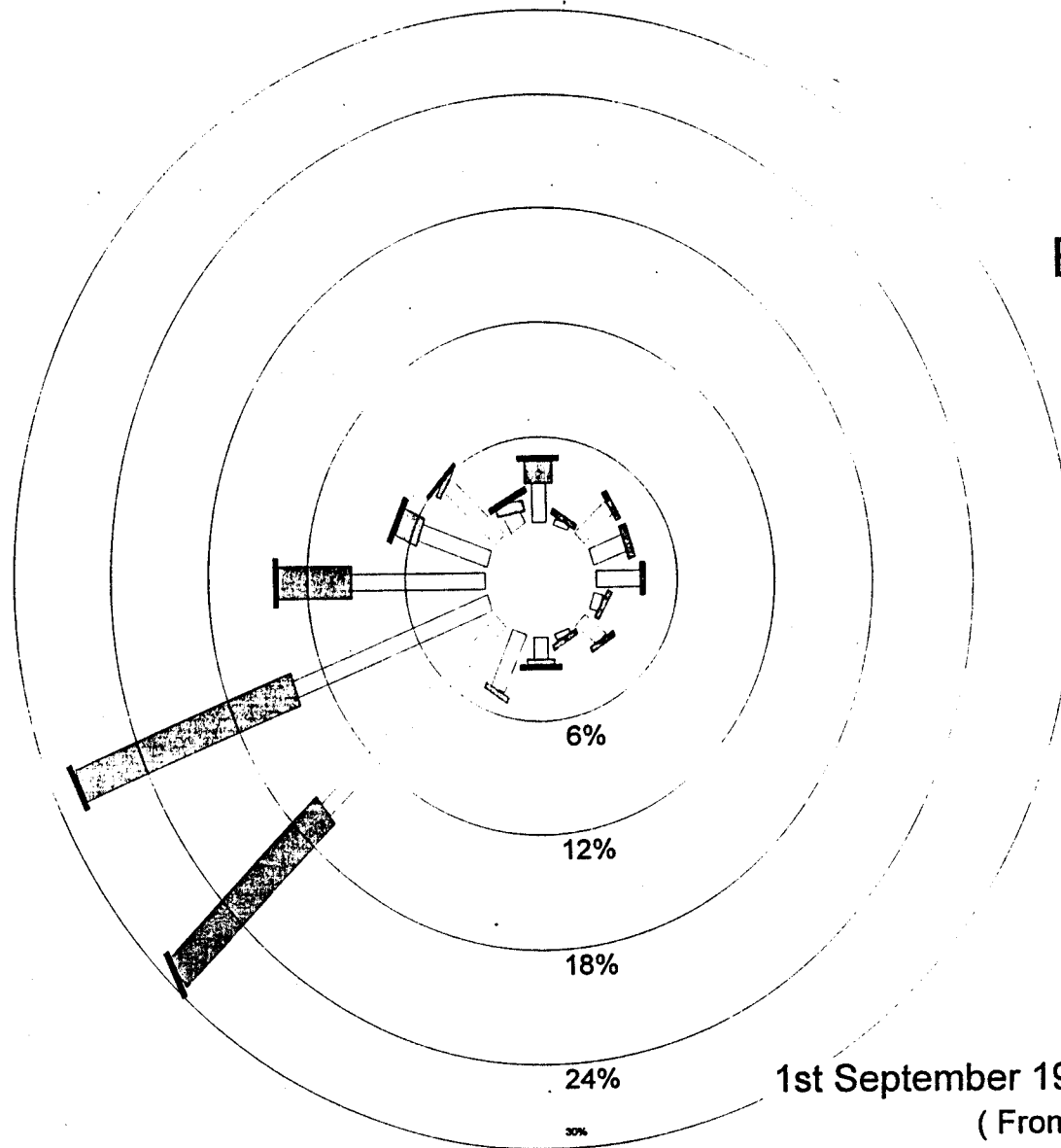
Day	Wind_speed			Temperature			Humidity			Rain	Solar	Sol(15cm)			Soil(30cm)		
	m/s			oC			%			mm	MJ/m2	oC			oC		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Total	Total	Min	Avg	Max	Min	Avg	Max
Jan	0.1	1.8	5.3	13.1	17.5	27.7	11.2	71.8	100.0	0.0	513	26.7	27.5	28.8	28.1	28.6	28.9
Feb	0.1	1.6	5.8	13.6	17.4	22.3	22.6	74.5	100.0	7.8	639	20.7	21.7	22.7	19.9	22.9	26.2
Mar	0.1	1.5	6.1	14.1	19.1	25.6	12.5	65.8	100.0	0.0	743	21.4	22.3	22.9	20.6	23.5	26.1
Apr	0.2	1.9	7.2	15.3	19.5	23.9	30.1	77.7	100.0	28.2	564	21.0	22.0	22.7	19.9	22.8	25.3
May	0.3	2.3	6.7	15.6	18.8	22.7	46.6	88.6	100.0	3.8	469	20.1	21.3	22.1	19.1	21.8	24.9
Jun	0.5	5.4	12.0	14.3	16.6	22.4	45.8	96.8	100.0	1284.1	275	16.1	19.2	22.1	16.0	19.0	23.8
Jul	0.2	4.8	11.8	13.0	16.0	20.1	67.3	97.5	100.0	1114.4	281	15.6	17.3	18.7	15.3	17.6	20.8
Aug	0.2	3.1	8.0	13.1	16.3	19.5	52.6	97.8	100.0	496.8	343	17.1	18.1	19.0	16.3	18.6	21.6
Sep	0.7	3.6	7.9	13.7	15.8	18.9	45.6	97.5	100.0	441.6	302	17.1	18.0	19.0	16.3	18.2	20.9
Oct	0.2	3.1	7.2	12.5	16.0	18.7	49.0	95.6	100.0	511.2	364	16.8	18.1	19.6	16.1	18.5	23.2
Nov	0.2	2.2	12.3	13.2	16.1	20.0	38.2	90.1	100.0	103.0	479	17.7	18.9	20.0	16.2	19.4	23.4
Dec	0.3	3.5	15.7	11.0	15.9	20.8	10.6	86.5	100.0	50.0	440	17.6	18.6	20.0	15.8	18.7	22.6
	0.1	2.9	15.7	11.0	17.1	27.7	10.6	86.7	100.0	4040.0	5412	15.6	20.3	28.8	15.3	20.8	28.9

-99.00 indicate No data or Invalid data.



Eravikulam NP

Wind speed m/s

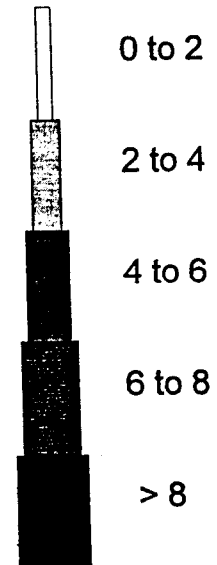
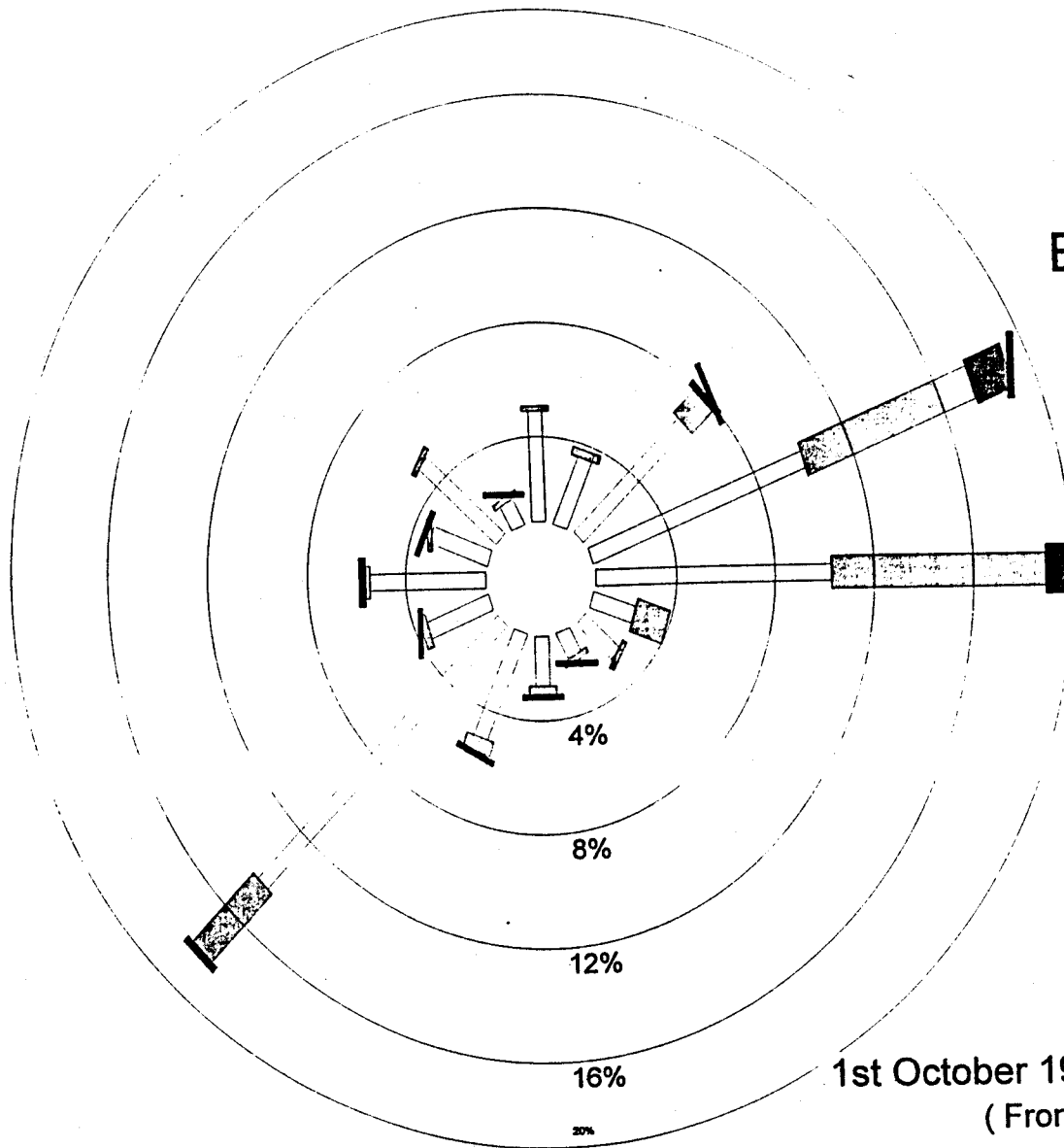


1st September 1997 to 30th September 1997  
( From 1 to 24 Hours )



Eravikulam NP

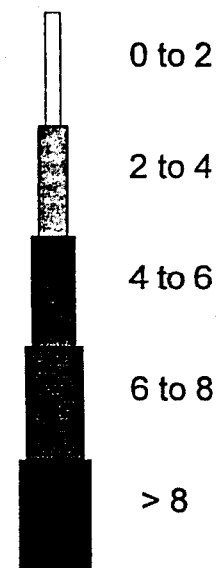
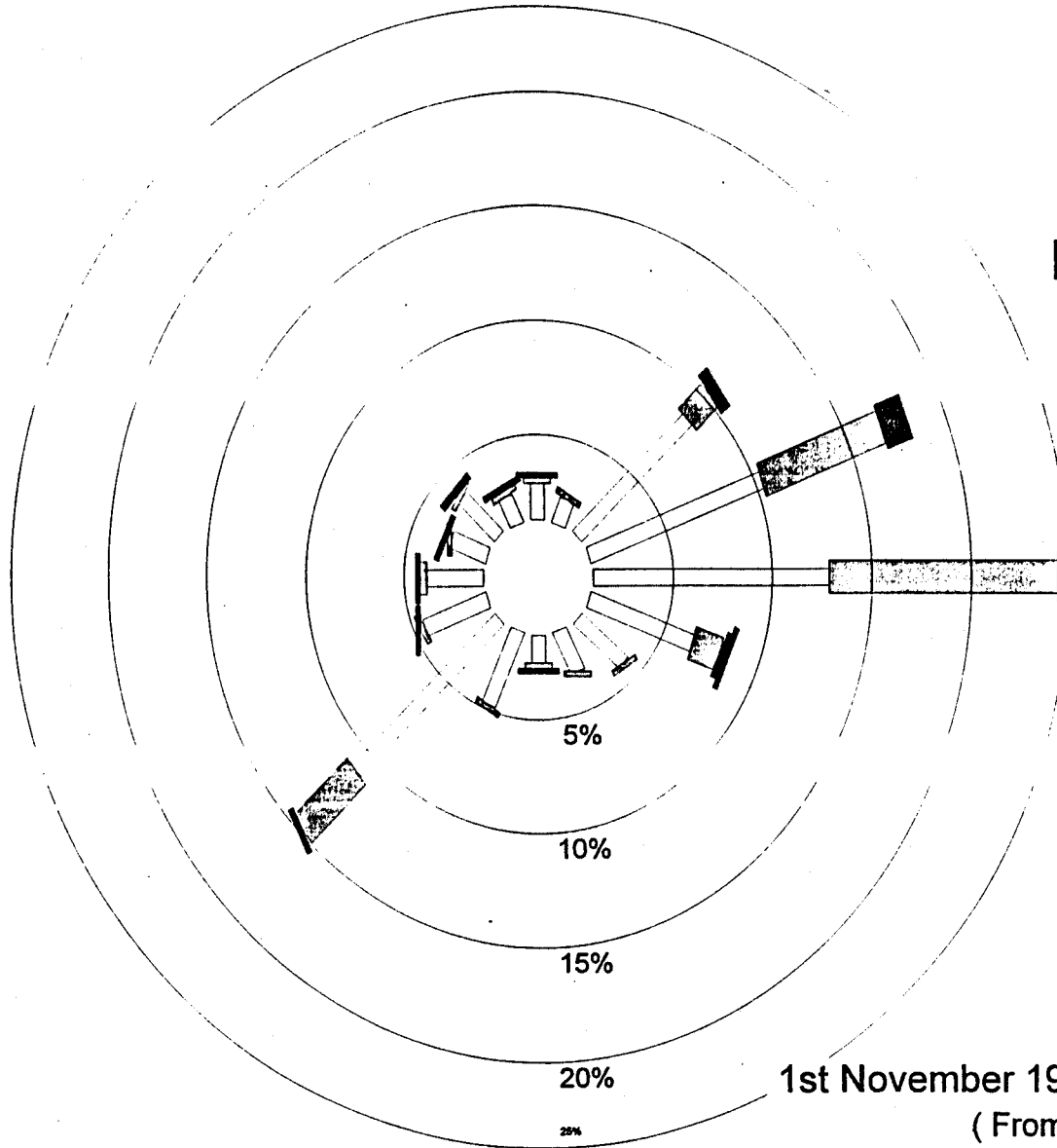
Wind speed m/s



1st October 1997 to 31st October 1997  
(From 1 to 24 Hours)



Eravikulam NP

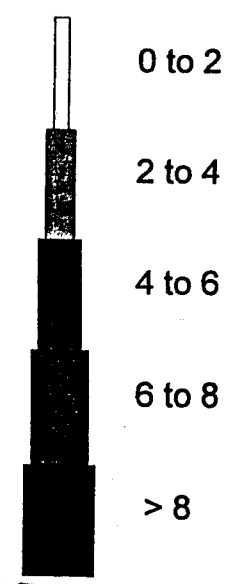
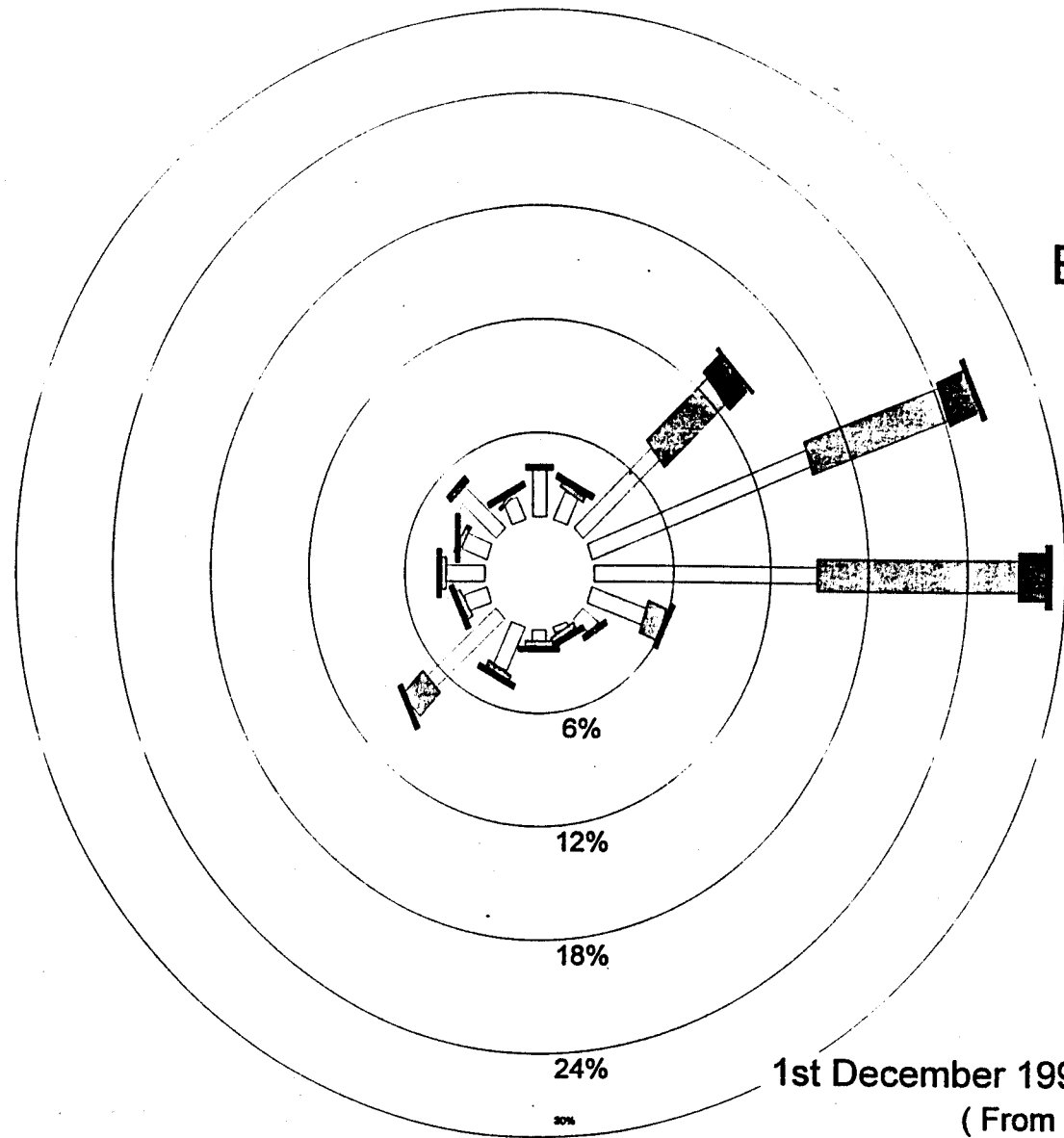


1st November 1997 to 30th November 1997  
( From 1 to 24 Hours )



Eravikulam NP

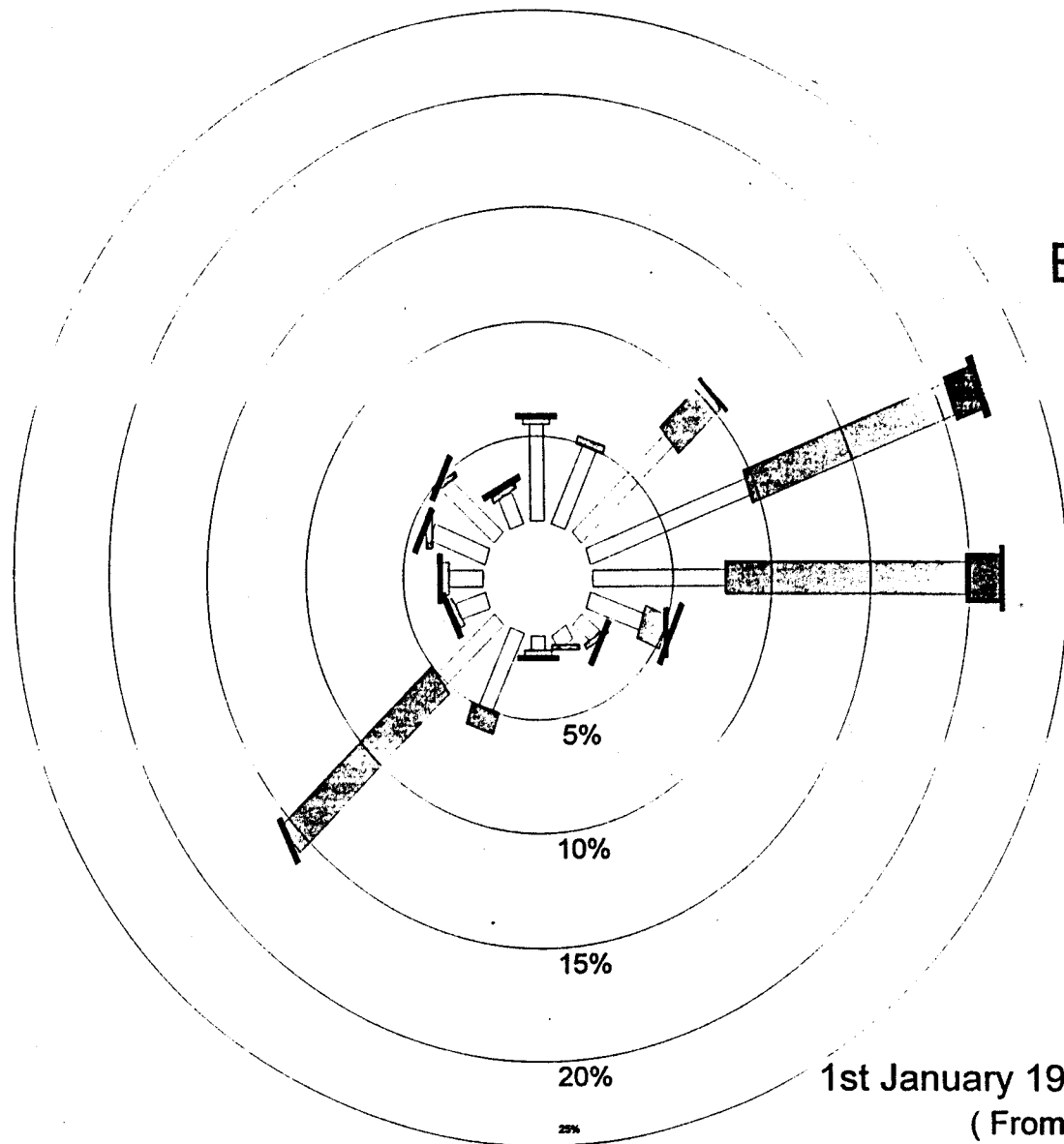
Wind speed m/s



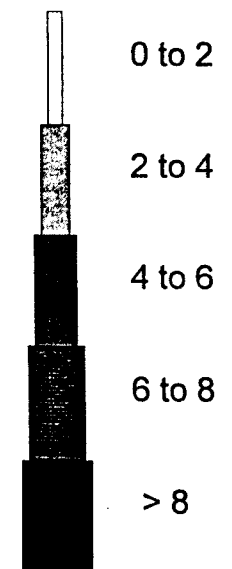
1st December 1997 to 31st December 1997  
( From 1 to 24 Hours )



# Eravikulam NP



Wind speed m/s

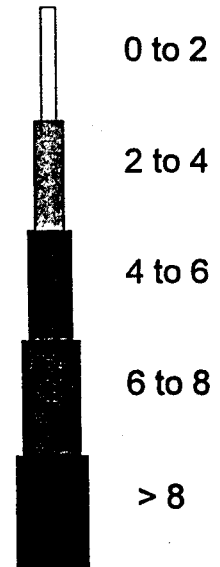
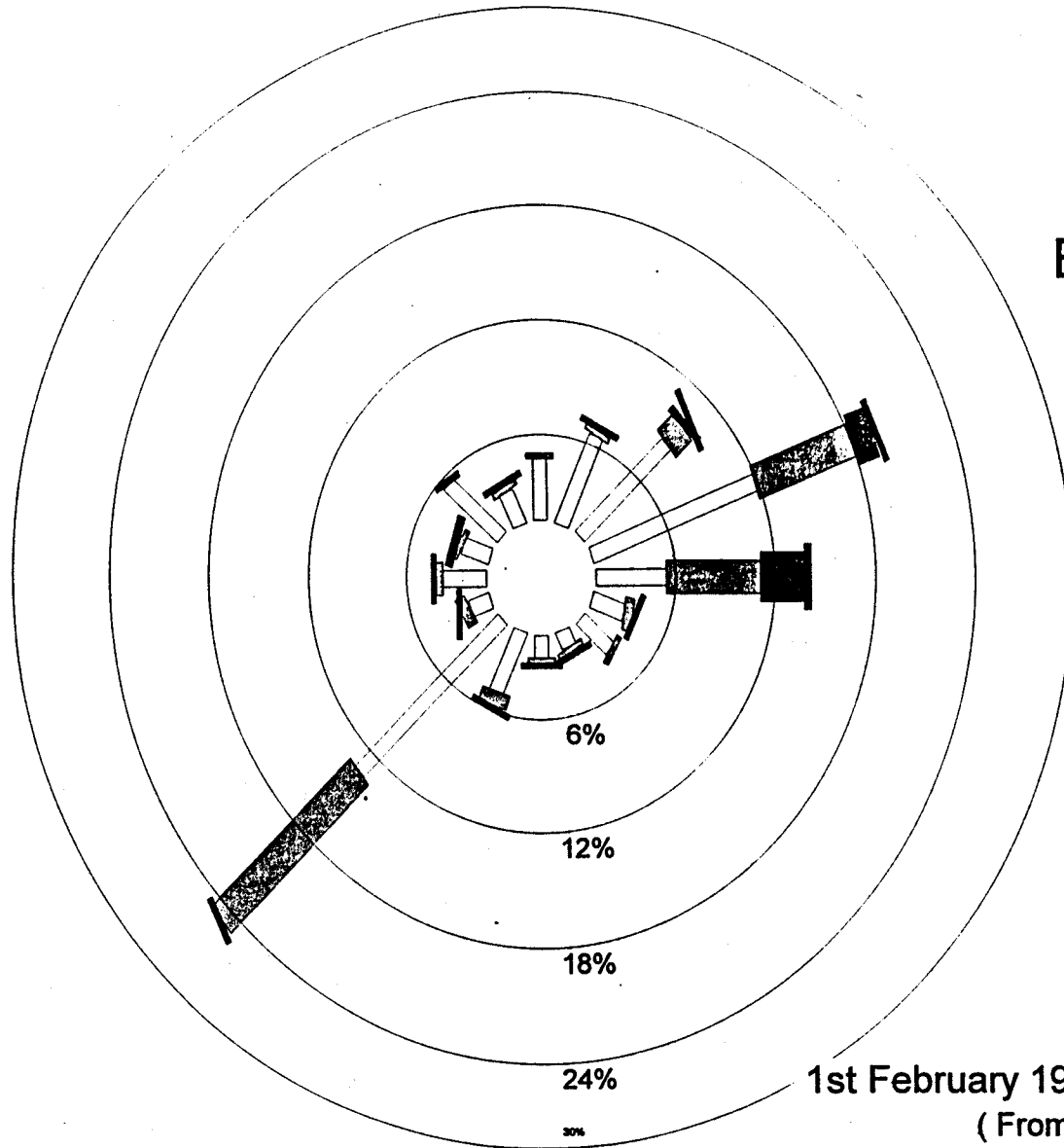


1st January 1998 to 31st January 1998  
( From 1 to 24 Hours )



Eravikulam NP

Wind speed m/s



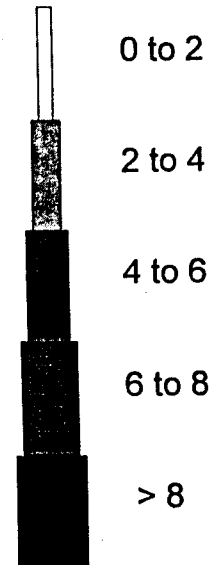
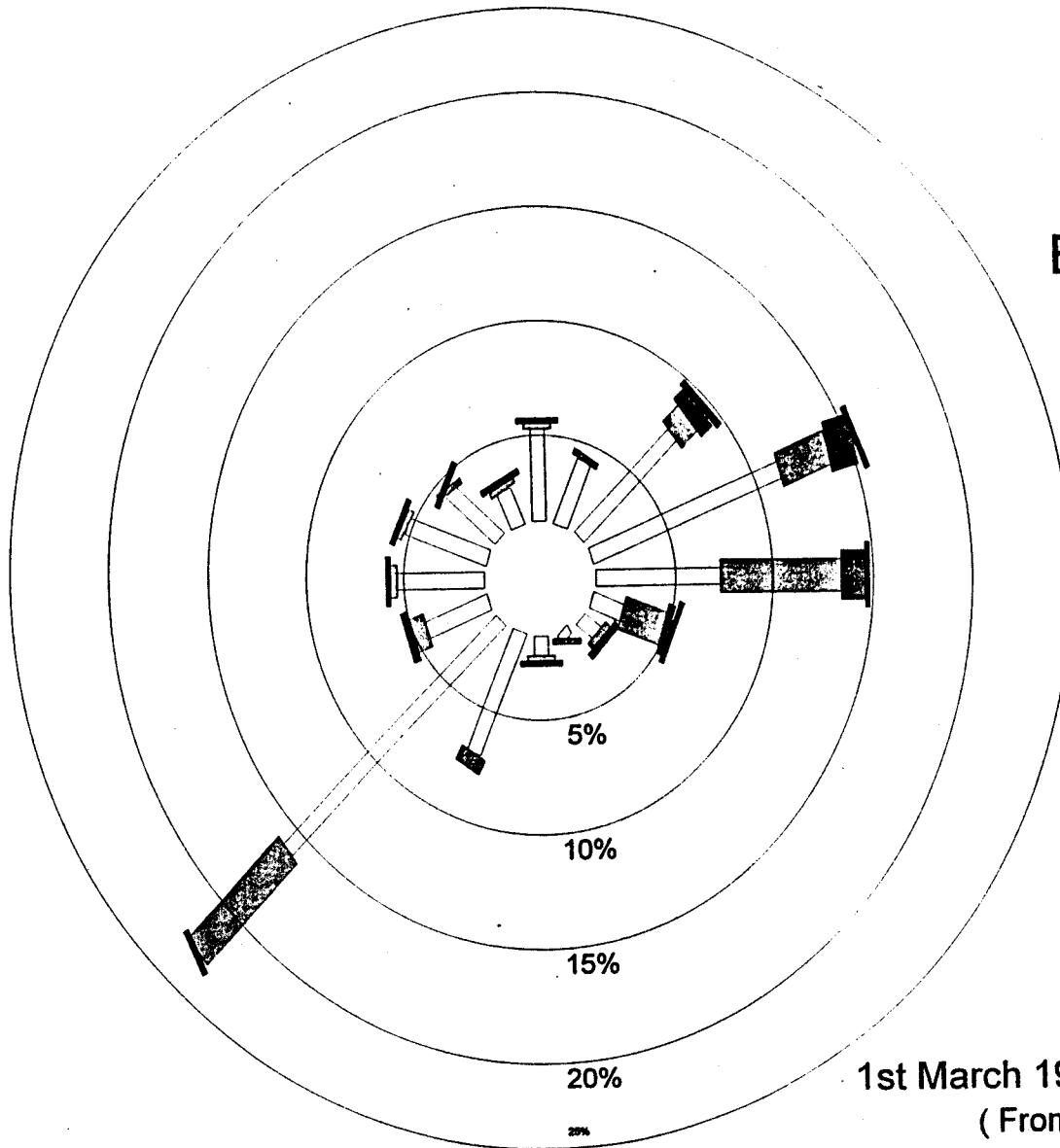
1st February 1998 to 28th February 1998  
( From 1 to 24 Hours )





Eravikulam NP

Wind speed m/s

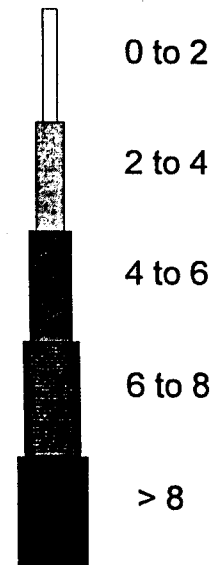
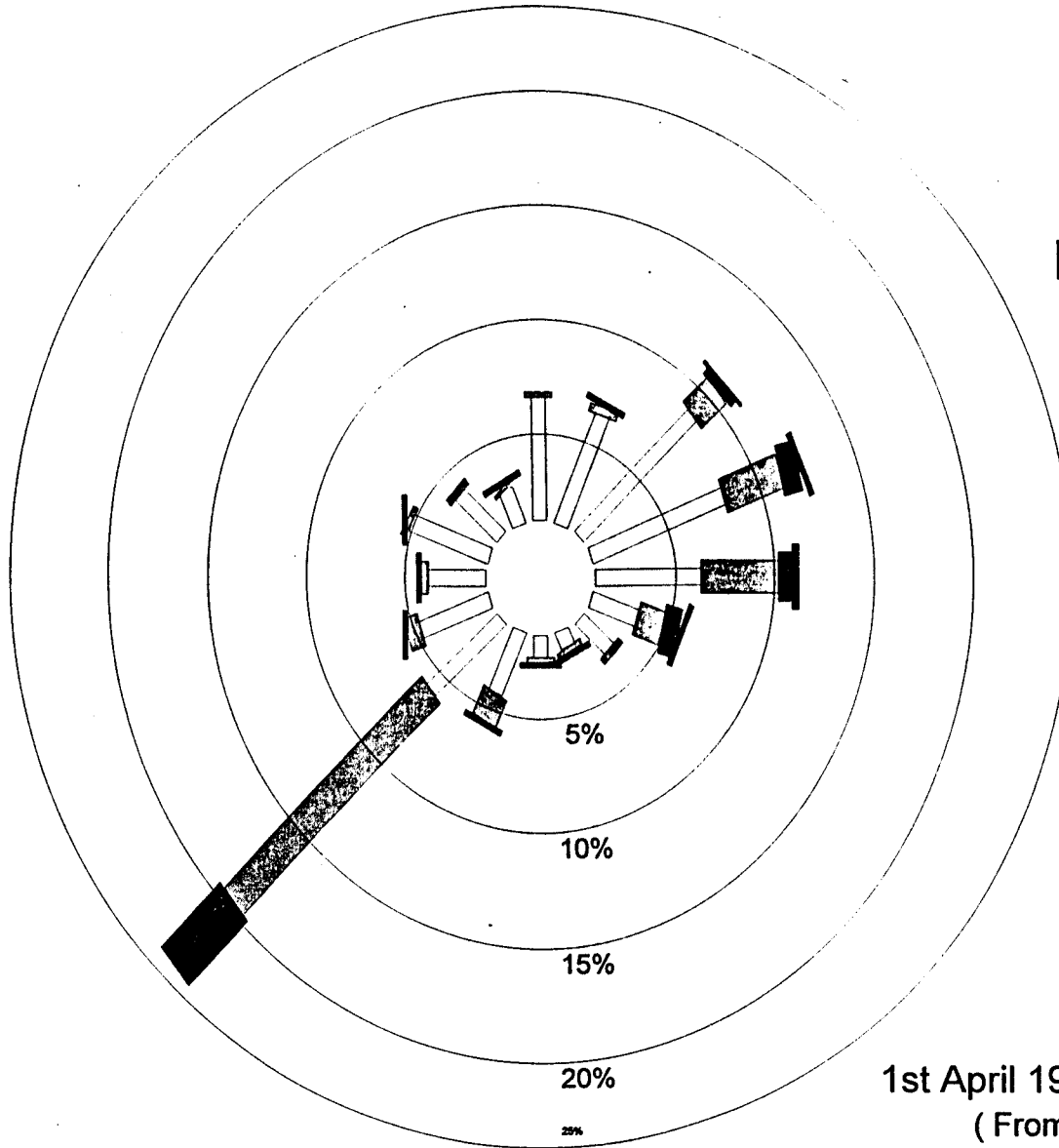


1st March 1998 to 31st March 1998  
( From 1 to 24 Hours )



# Eravikulam NP

Wind speed m/s

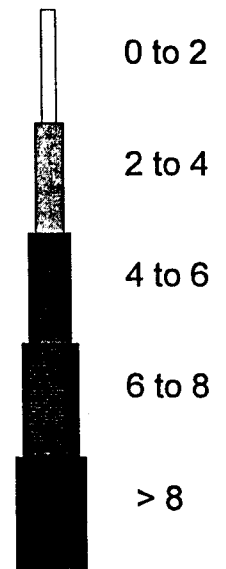
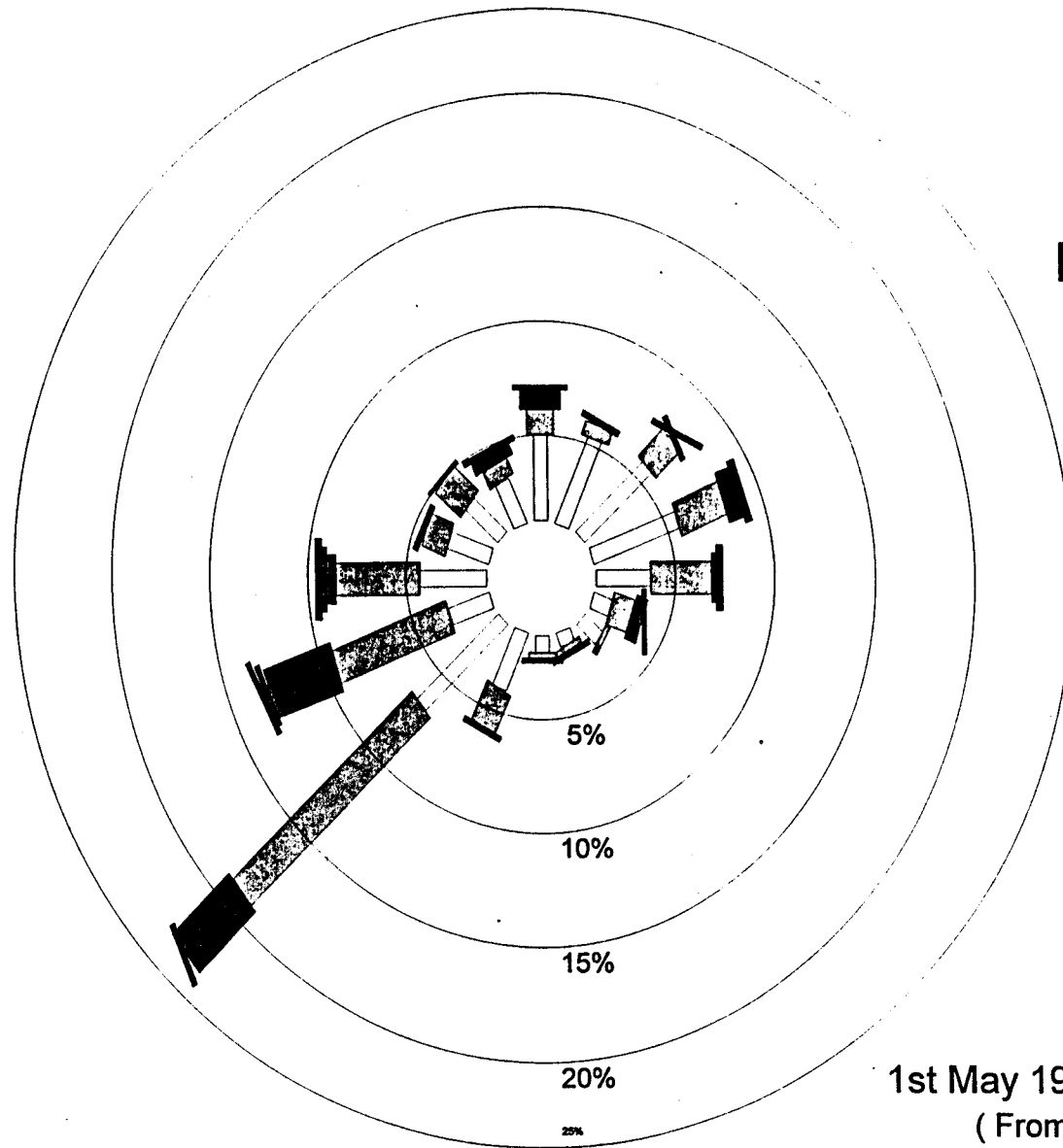


1st April 1998 to 30th April 1998  
( From 1 to 24 Hours )



# Eravikulam NP

Wind speed m/s

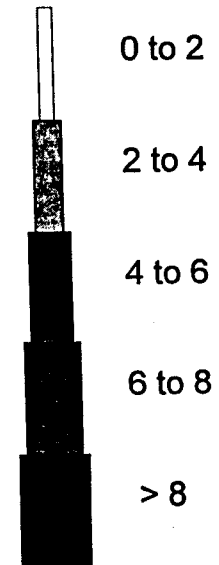
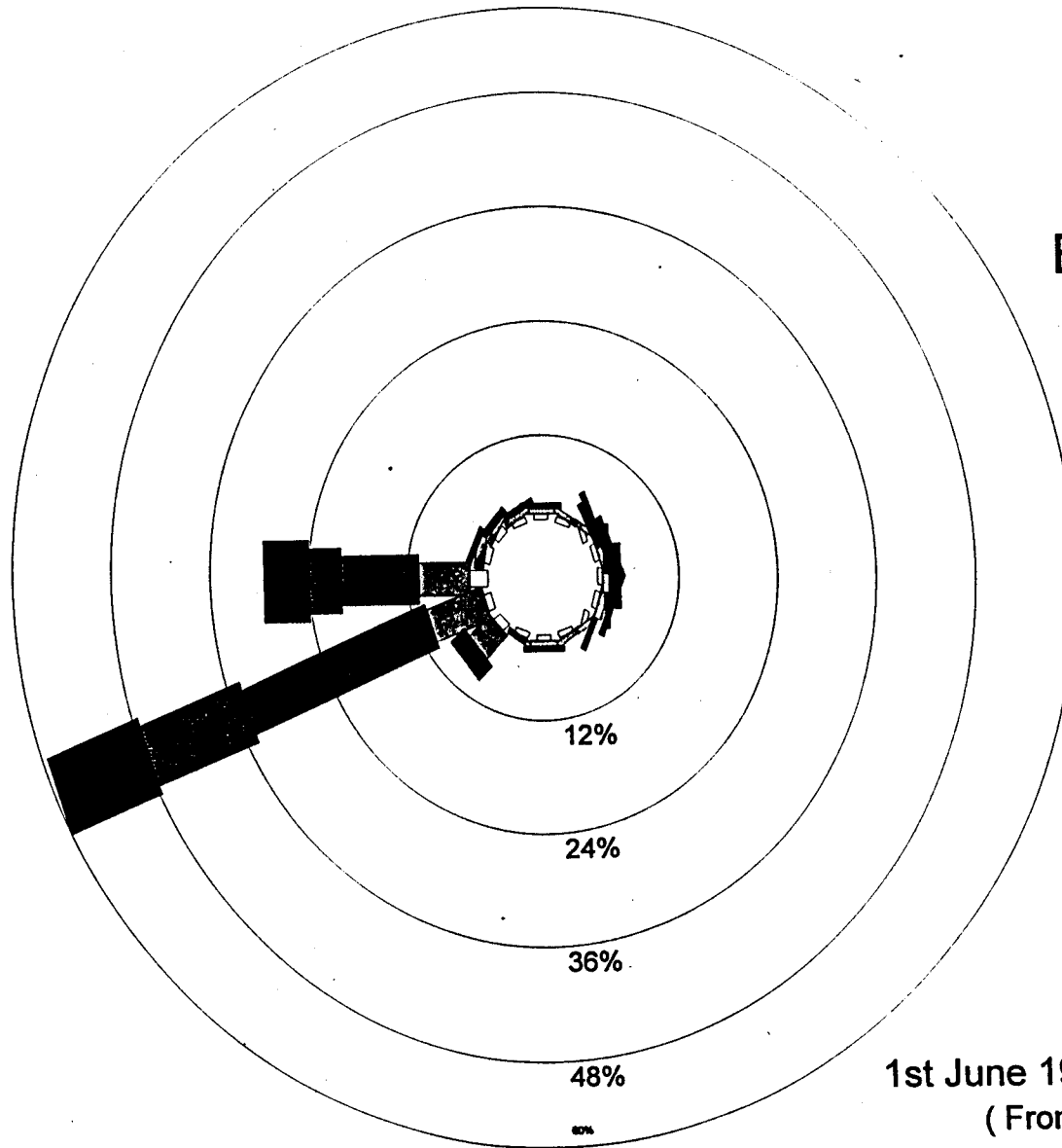


1st May 1998 to 31st May 1998  
( From 1 to 24 Hours )



# Eravikulam NP

Wind speed m/s

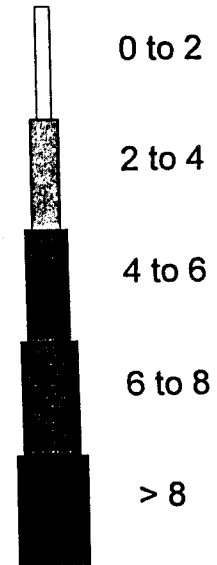
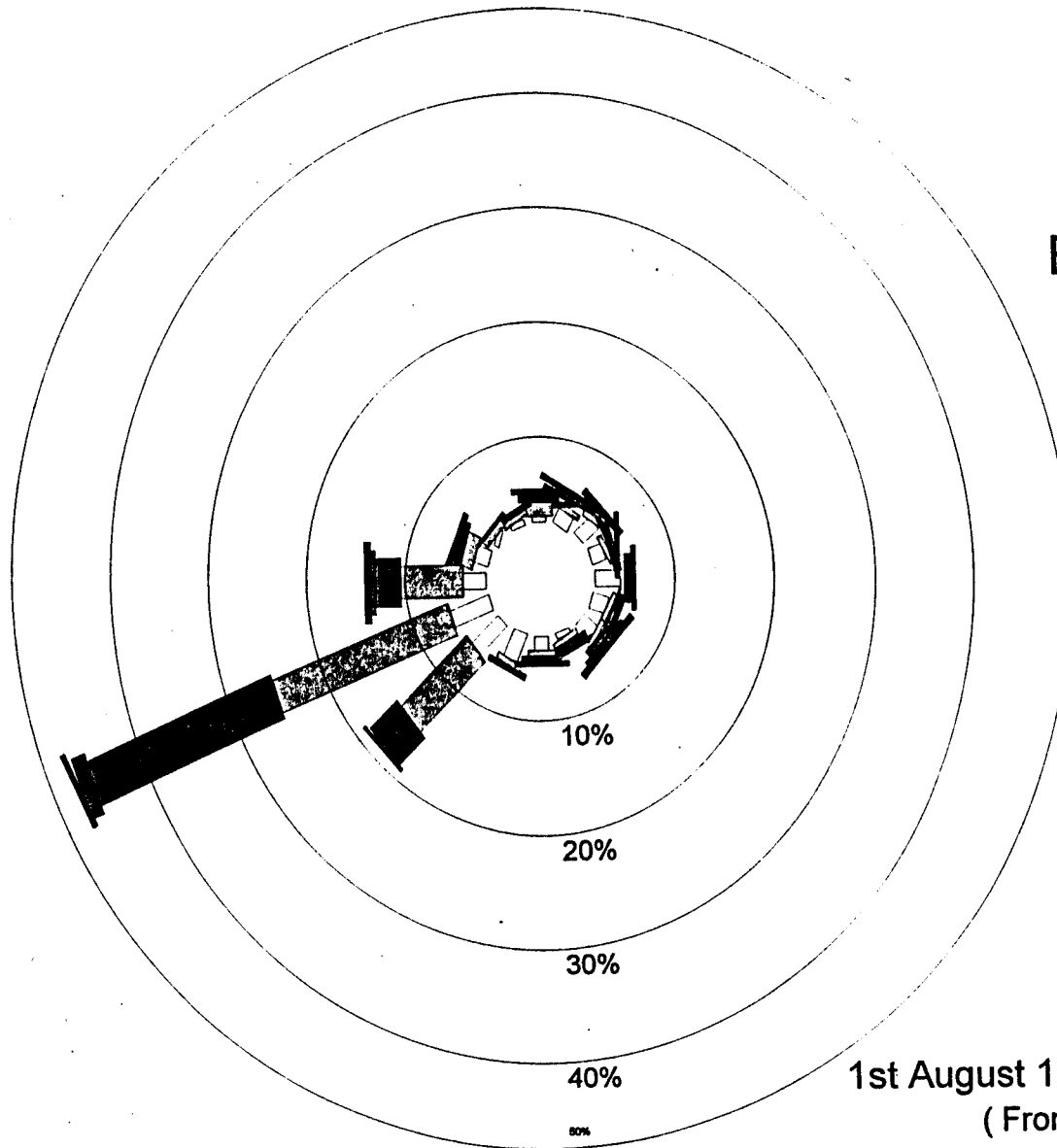


1st June 1998 to 30th June 1998  
( From 1 to 24 Hours )



Eravikulam NP

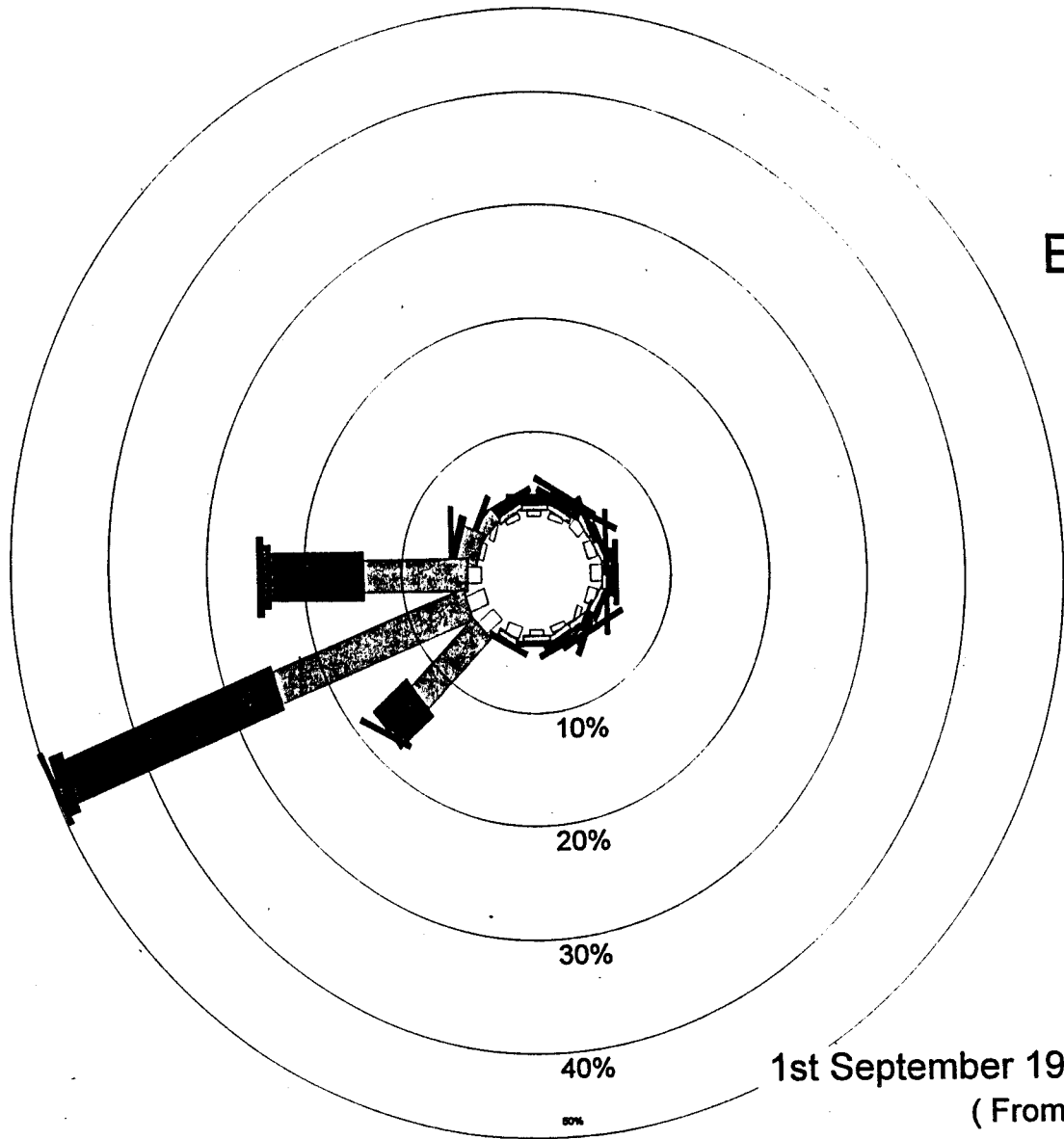
Wind speed m/s



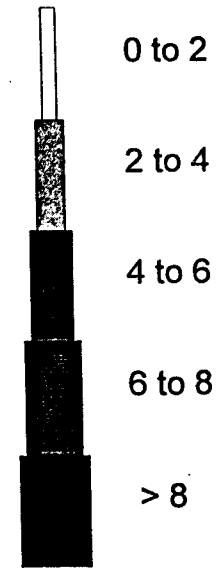
1st August 1998 to 31st August 1998  
( From 1 to 24 Hours )



Eravikulam NP



Wind speed m/s

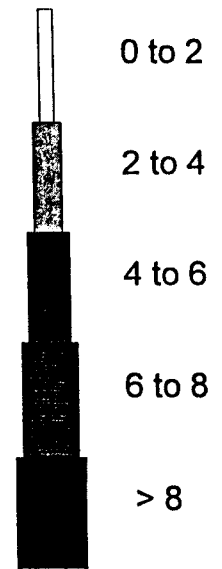
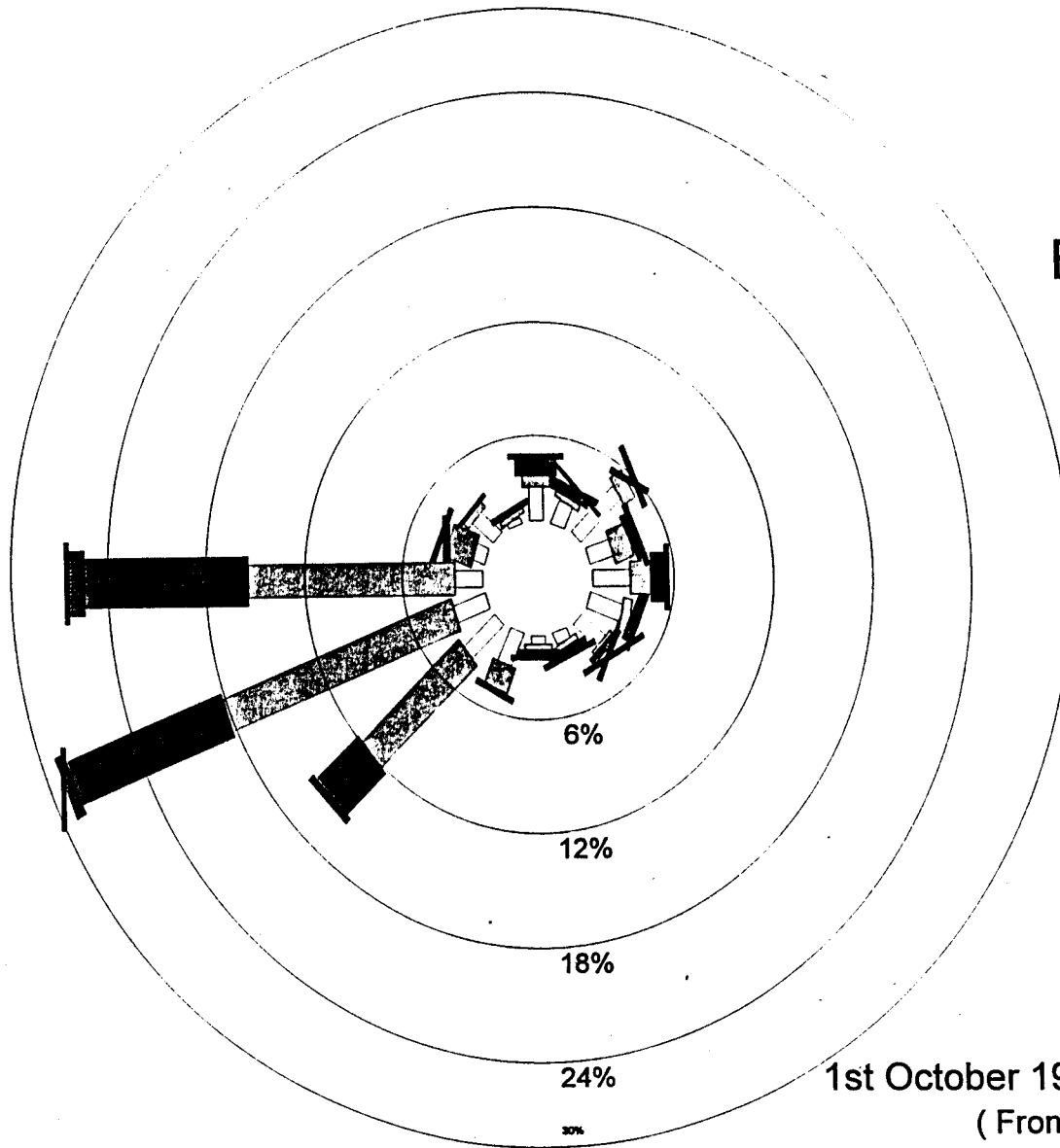


1st September 1998 to 30th September 1998  
( From 1 to 24 Hours )



# Eravikulam NP

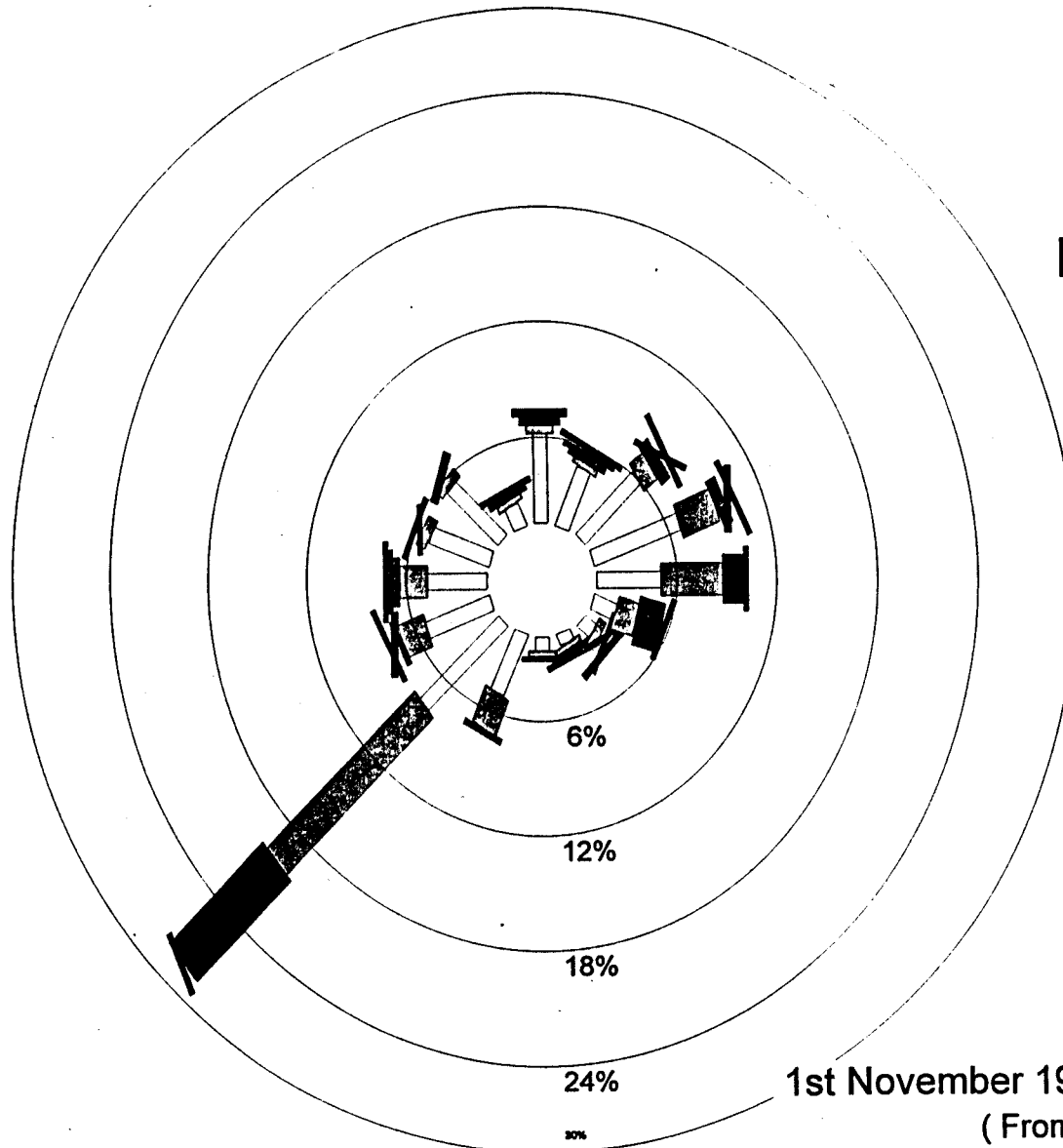
Wind speed m/s



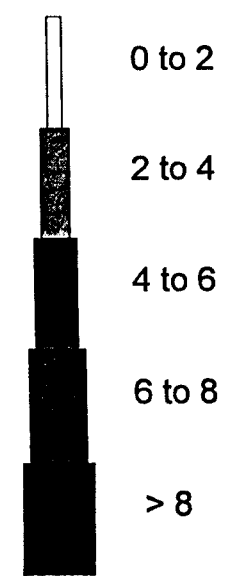
1st October 1998 to 31st October 1998  
( From 1 to 24 Hours )



# Eravikulam NP



Wind speed m/s



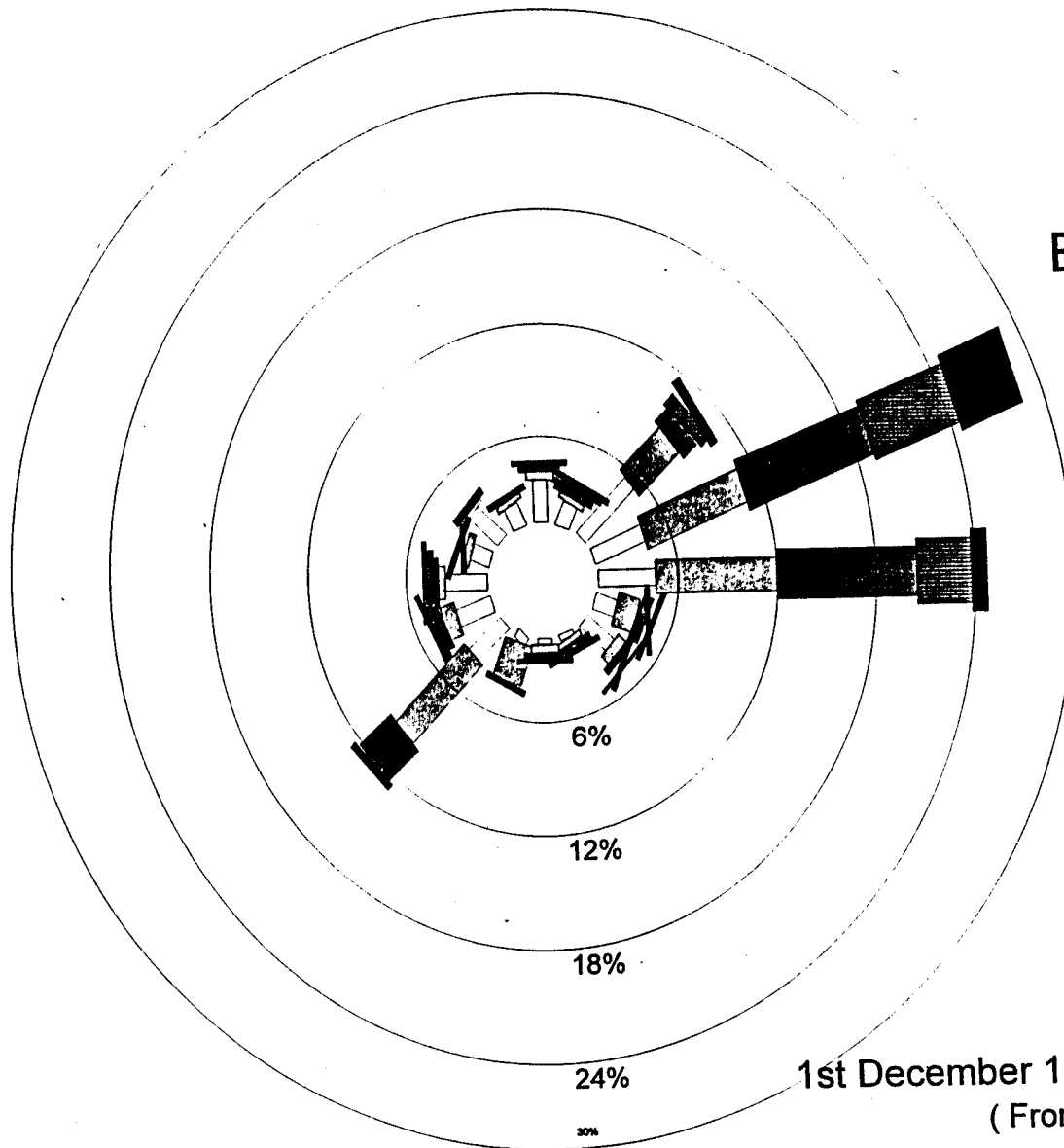
1st November 1998 to 30th November 1998  
( From 1 to 24 Hours )





Eravikulam NP

Wind speed m/s



0 to 2

2 to 4

4 to 6

6 to 8

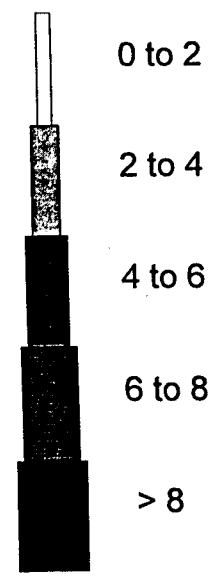
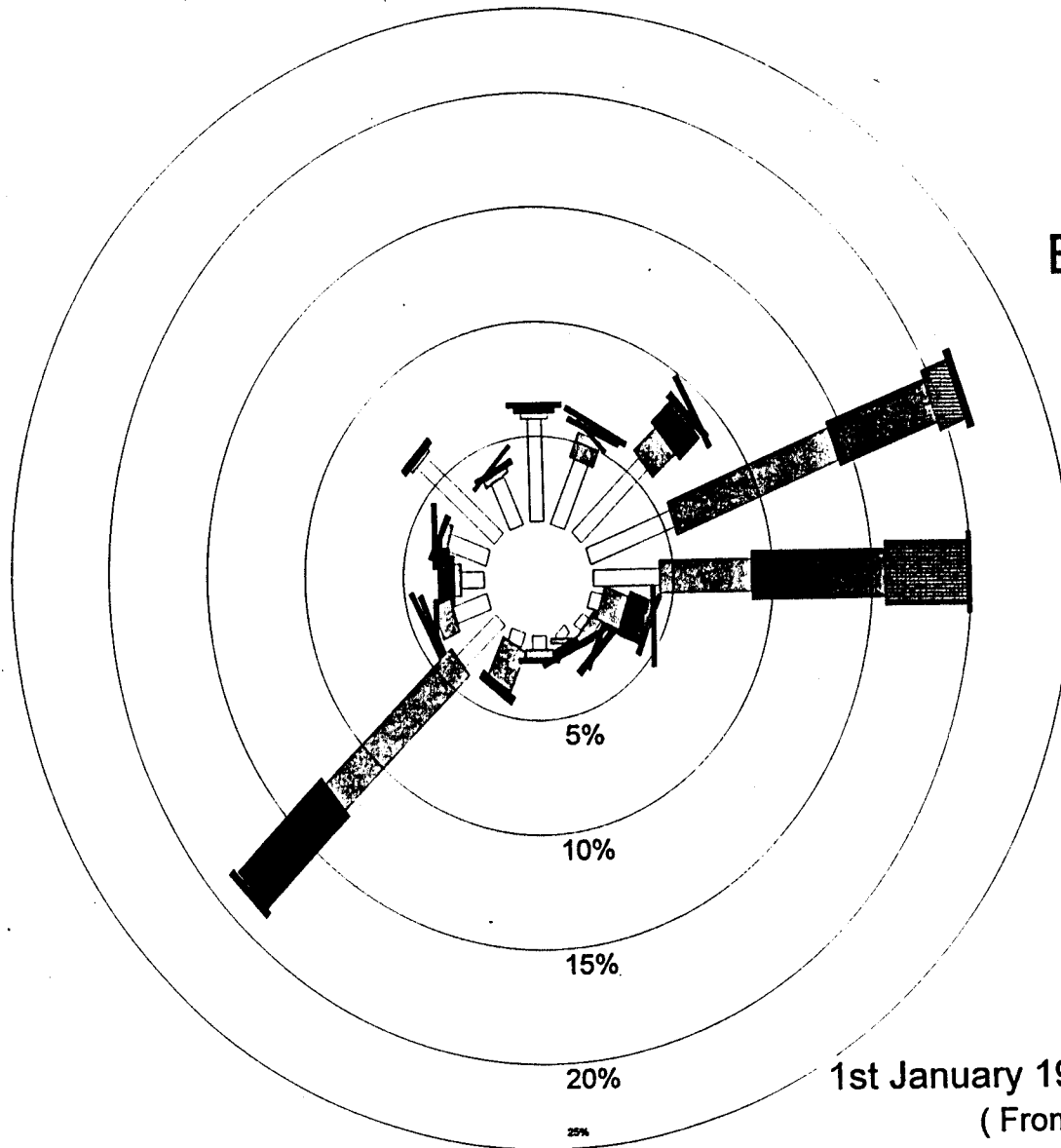
> 8

1st December 1998 to 31st December 1998  
( From 1 to 24 Hours )



# Eravikulam NP

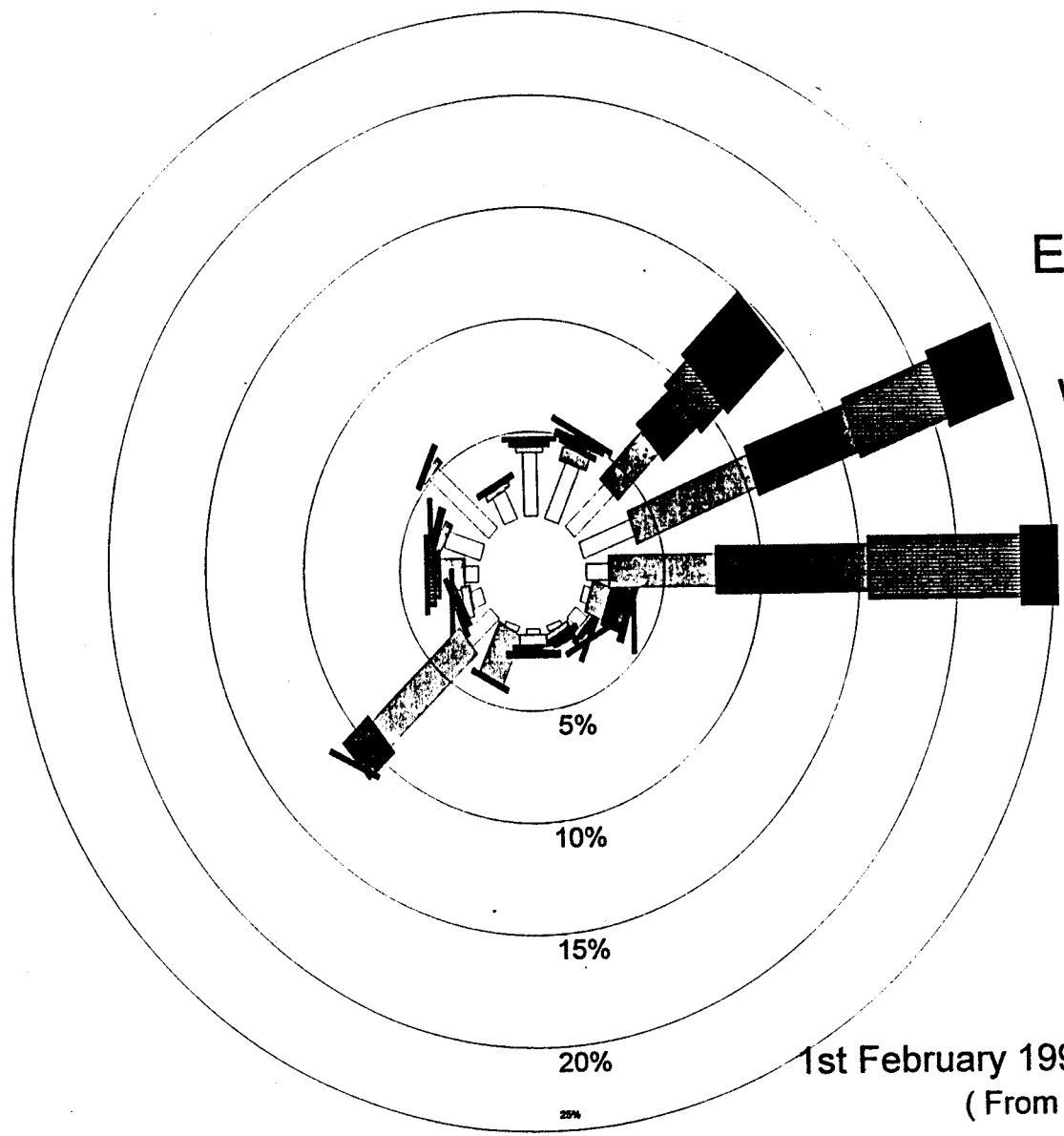
Wind speed m/s



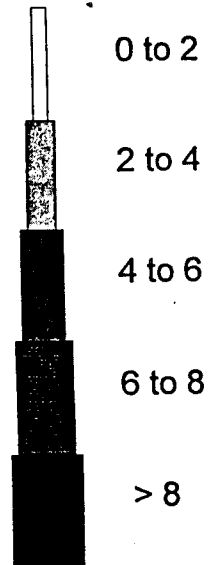
1st January 1999 to 31st January 1999  
(From 1 to 24 Hours)



Eravikulam NP



Wind speed m/s

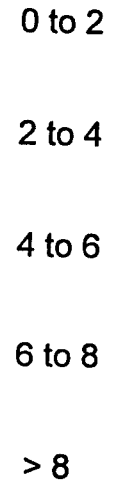
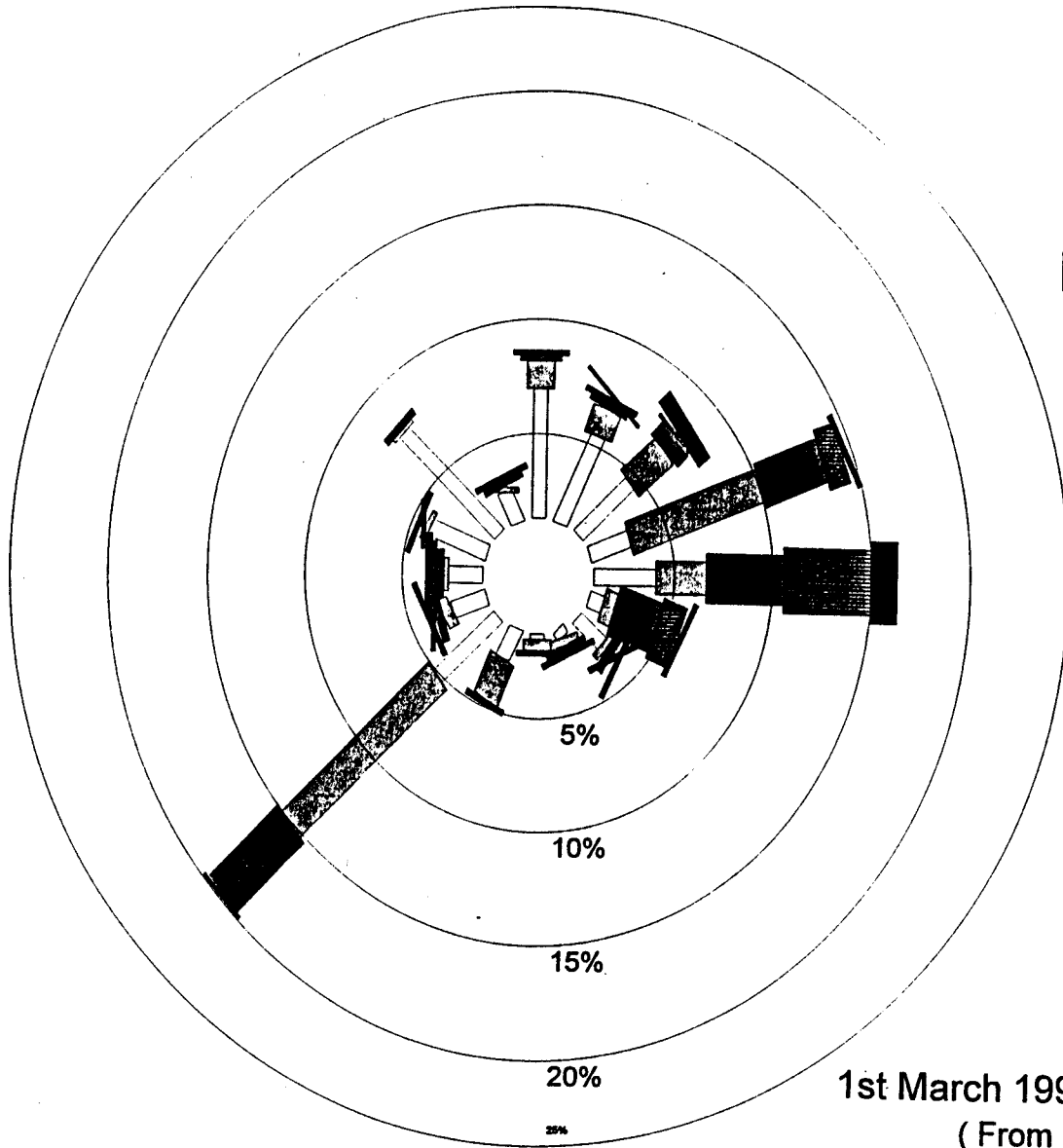


1st February 1999 to 28th February 1999  
( From 1 to 24 Hours )



# Eravikulam NP

Wind speed m/s



1st March 1999 to 31st March 1999  
(From 1 to 24 Hours)