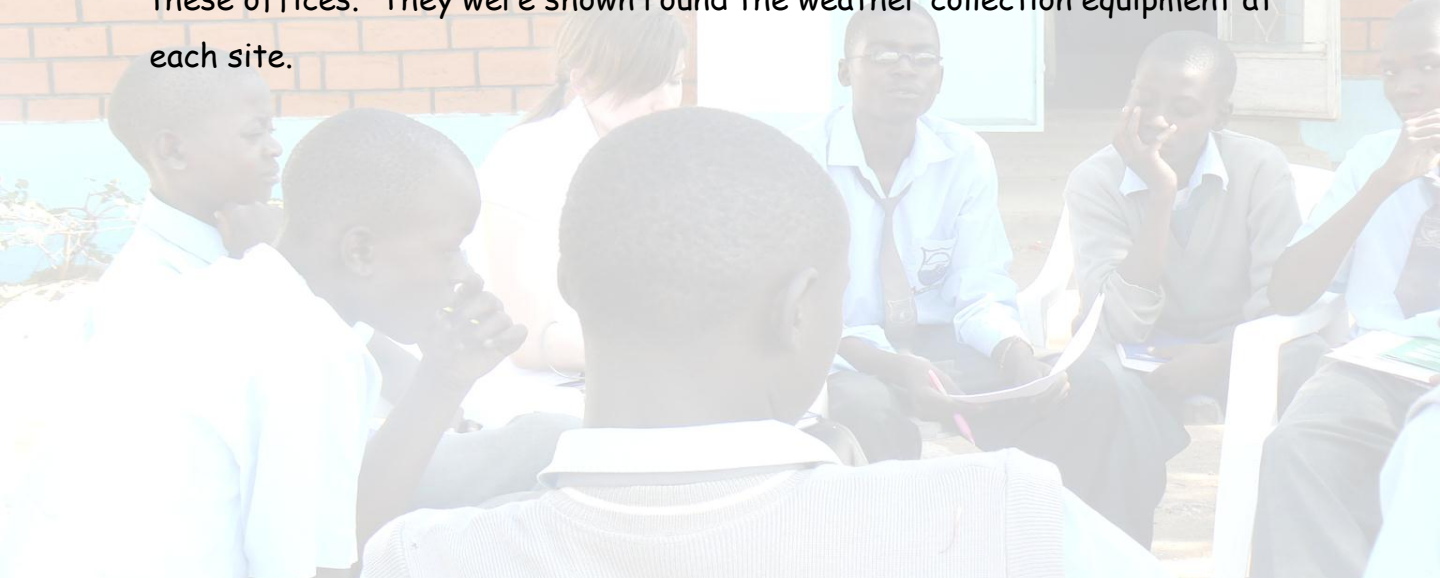


## Data Collection

Students from Otieno Oyoo High School had a field trip to the Met. Office at Kisumu Airport and Kakamega Forest, and obtained weather data from these offices. They were shown round the weather collection equipment at each site.



Otieno Oyoo High School gathered weather data from the Met Office at Kisumu airport. The students decided to plot the wind direction on calendar sheets.

WIND DIRECTION FOR THE MONTH OF APRIL.

	7:00 AM	8:00 AM	9:00 AM	10:00 AM	11:00 AM	12 NOON	1:00 PM	2:00 PM	3:00 PM	4:00 PM	5:00 PM	6:00 PM
1	Calm	Calm	Calm	Calm	↖	↘	↘	↘	↘	↘	↘	↘
2	Calm	→	→	↓	↘	↘	↘	↘	↘	↘	↘	↘
3	Calm	Calm	↘	↘	↘	↘	↘	↘	↘	↘	↘	↘
4	Calm	↘	↘	↘	↘	↘	↘	↘	↘	↘	↘	↘
5	Calm	Calm	Calm	↓	↘	↘	↘	↘	↘	↘	↘	↘
6	↗	Calm	Calm	→	↓	↘	↘	↘	↘	↘	↘	↘
7	Calm	→	→	↘	↘	↘	↘	↘	↘	↘	↘	↘
8	Calm	Calm	→	↘	↘	↘	↘	↘	↘	↘	↘	↘
9	Calm	Calm	→	Calm	↘	↘	↘	↘	↘	↘	↘	↘
10	↘	Calm	Calm	→	↘	↘	↘	↘	↘	↘	↘	↘
11	↗	→	Calm	↘	Calm	→	↘	↘	↘	↘	↘	↘
12	→	Calm	→	Calm	Calm	↘	↘	↘	↘	↘	↘	↘
13	↗	↘	→	Calm	Calm	↘	↘	↘	↘	↘	↘	↘
14	↗	→	→	Calm	↘	↘	↘	↘	↘	↘	↘	↘
15	↗	Calm	↘	↘	↘	↘	↘	↘	↘	↘	↘	↘

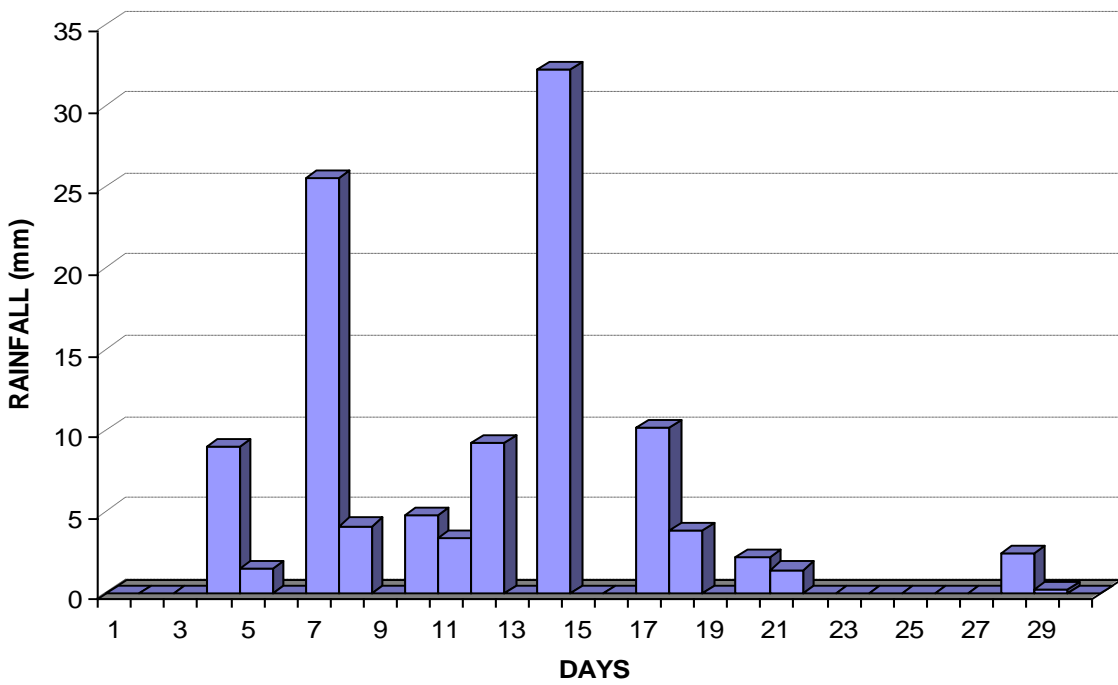
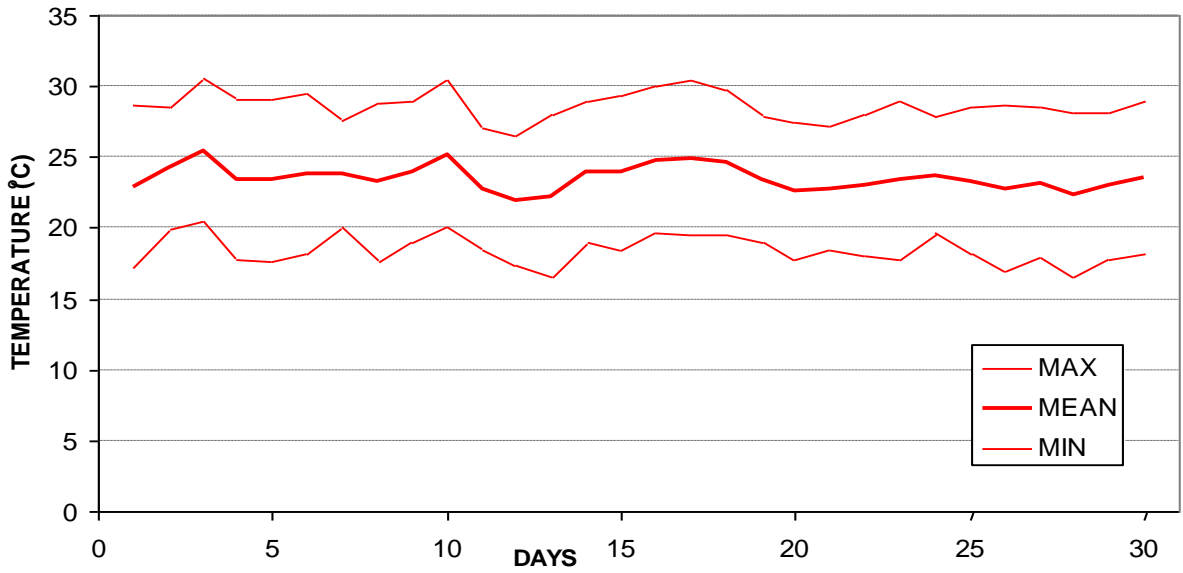
*Whistling of the wind, Sends dust into the air, Watering eyes*

*The violent wind  
Whirled around  
Our homestead*

*Whirling wind blew on dry land  
Carrying clouds of dust  
People cried with hunger*

*Whistling wind, destroying properties, drought and famine*

# JUNE 2011

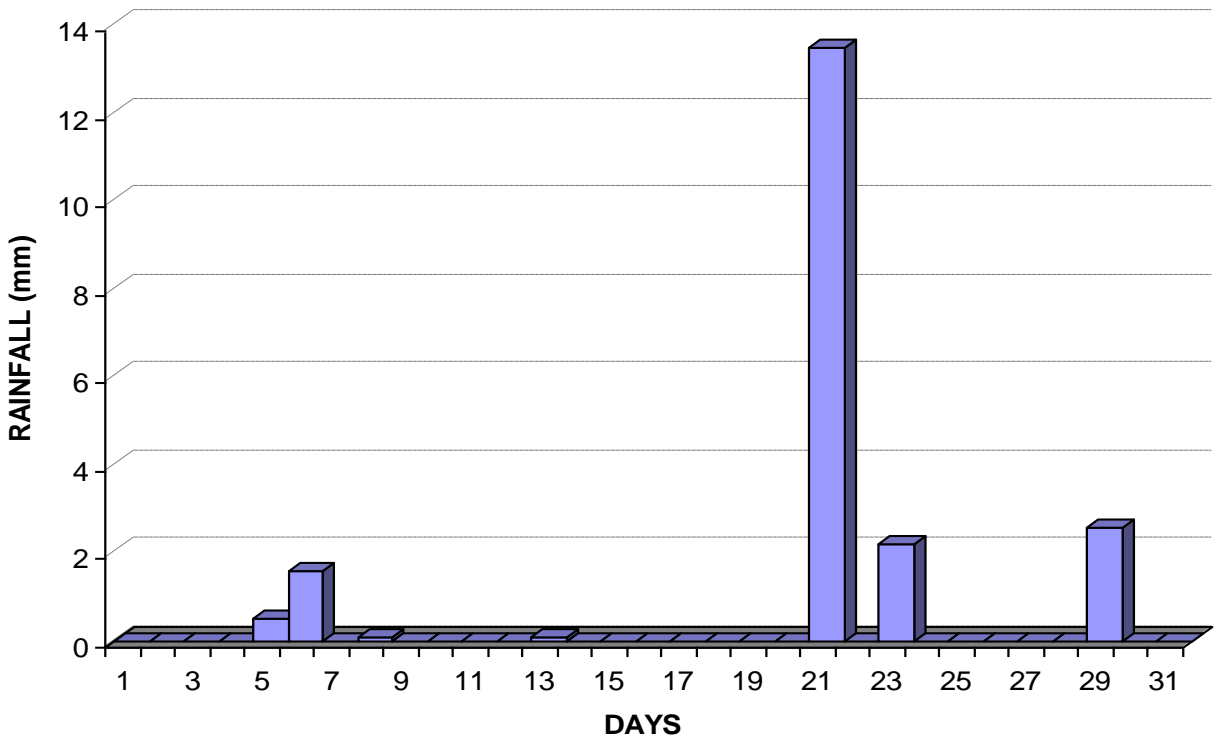
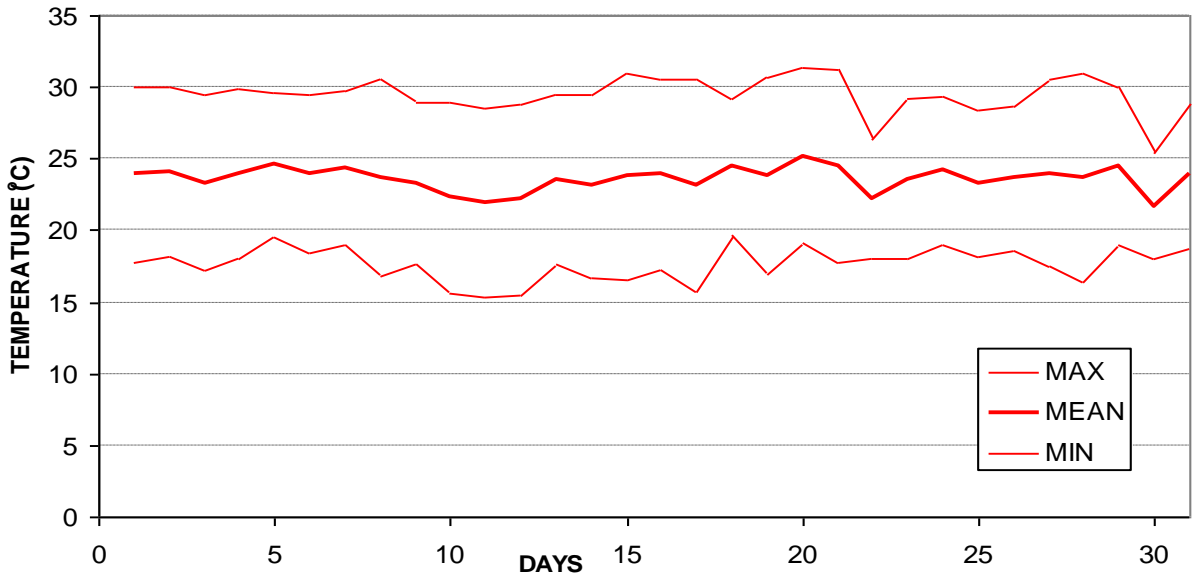


WIND DIRECTION FOR THE MONTH OF JUNE

	7:00 AM	8:00 AM	9:00 AM	10:00 AM	11:00 AM	12 NOON	1:00 PM	2:00 PM	3:00 PM	4:00 PM	5:00 PM	6:00 PM
1	→	→	→	Calm	Calm	↙	↙↙	↙↙	Calm	Calm	→	→
2	→	Calm	↘	↘	Calm	↙	↙↙	↙↙	↙↙	Calm	↙	→
3	Calm	Calm	↗RB04	↗	↗	Calm	↙	↙	↙	↙	↗	Calm
4	Calm	Calm	↗	→	→	↗	↙	↙	↙	Calm	↙	↗
5	Calm	Calm	↗	→	↘	↘	↘	↘	↘	Calm	↘	↗
6	Calm	→	→	↘	Calm	↙	↓	↙	↘	↘	↘	↘
7	→	→	↘	Calm	↘	↘	↙	↙	↘	↘	↙	↙
8	↗	Calm	Calm	Calm	Calm	Calm	↓	↘	↘	↘	↗	↗
9	Calm	Calm	↗RB	Calm	Calm	↘	↙	↙	↙	↙	Calm	↗
10	Calm	→	Calm	→	Calm	Calm	↓	Calm	↙	↙	↙	↙
11	↗	Calm	Calm	Calm	Calm	Calm	↙	↙	↙	↙	↘	↗
12	Calm	Calm	Calm	Calm	↓	↓	↓	↓	↓	↓	↙	↙
13	→	→	→	→	↘	↓	↓	↘	↘	↘	↘	↘
14	↗	→	→	Calm	Calm	↘	↘	↓	↓	↓	↘	↘
15	Calm	Calm	Calm	→	↘	↓	↓	↓	↙	↙	↙	↙

	7:00 AM	8:00 AM	9:00 AM	10:00 AM	11:00 AM	12 NOON	1:00 PM	2:00 PM	3:00 PM	4:00 PM	5:00 PM	6:00 PM
16	→	↗	↘	→	↘	↓	↓	↘	↘	Calm	↙	↗
17	Calm	↗	→	→	Calm	↗	↘	↘	↘	Calm	Calm	Calm
18	→	↘	→	↗	Calm	Calm	↙	↘	↘	↘	Calm	Calm
19	Calm	Calm	→	Calm	Calm	Calm	↙	↘	↘	↘	↘	↙
20	Calm	Calm	↘	↘	↓	↘	↙	↘	↘	↘	↘	Calm
21	→	↗	↘	Calm	↘	↘	↘	↘	↘	↘	→	↙
22	Calm	→	↗	→	↘	↘	↘	↘	↘	↘	↘	→
23	Calm	Calm	↘	↘	Calm	↓	↙	↙	↘	↘	↘	↘
24	Calm	Calm	Calm	Calm	↘	↘	↘	↘	↘	↘	↘	↘
25	Calm	Calm	Calm	↘	↘	↓	↓	↙	↘	↘	↙	↘
26	→	Calm	Calm	Calm	Calm	↓	Calm	↘	↓	↘	Calm	↗
27	Calm	Calm	↘	↗	Calm	↘	↙	↙	↙	↘	↘	↘
28	Calm	Calm	↗	Calm	Calm	↘	↙	↙	↙	↙	↙	↘
29	Calm	Calm	Calm	↘	↘	Calm	↙	↘	↙	↘	↘	↘
30	Calm	→	↘	Calm								

# JULY 2011



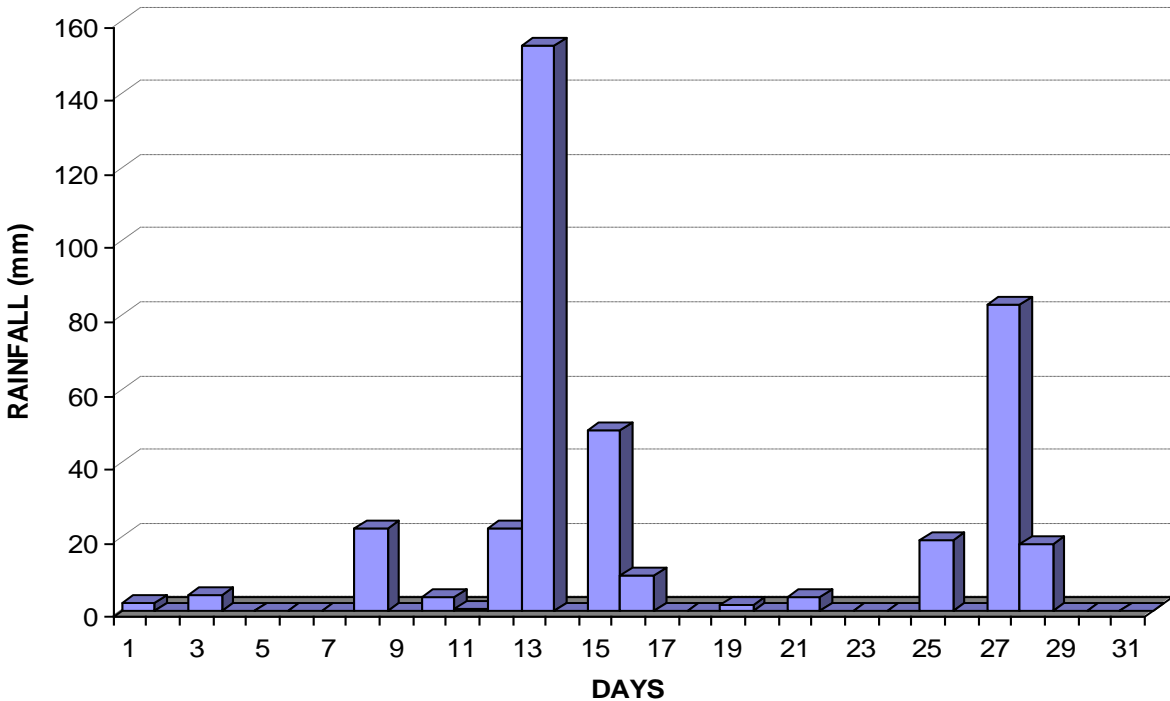
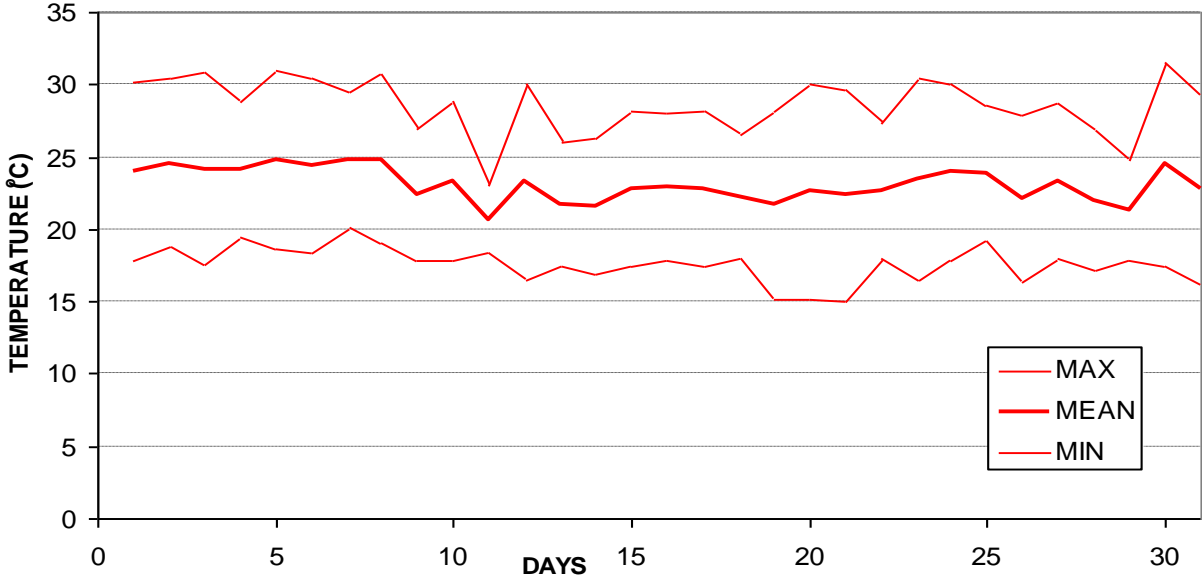


WIND DIRECTION FOR THE MONTH OF JULY

	7:00 AM	8:00 AM	9:00 AM	10:00 AM	11:00 AM	12 NOON	1:00 PM	2:00 PM	3:00 PM	4:00 PM	5:00 PM	6:00 PM
1	↗	Calm	→	→	↘	Calm	Calm	↙	↙	↙	↙	Calm
2	Calm	Calm	↘	→	↘	↘	↘	↘	↘	↘	↘	↘
3	Calm	↘	↘	→	↘	↘	↘	↘	↘	↘	↗	↗
4	Calm	→	↘	→	↘	↘	↘	↙	↙	↙	↙	↙
5	→	→	↘	↘	↘	↘	↘	↘	↘	↘	↘	↙
6	Calm	Calm	↘	→	Calm	Calm	↘	↘	↘	↘	↘	↙
7	↗	Calm	Calm	↘	↘	Calm	↘	↘	↘	↘	↙	↗
8	↗	↗	↗	↘	Calm	↘	→	↘	↗	↗	↗	↗
9	Calm	→	↗	↘	Calm	↘	↘	↘	↘	↙	↘	↘
10	Calm	Calm	↘	↘	↘	↘	↘	↘	↘	↗	↗	↘
11	Calm	→	↘	Calm	↗	↙	↘	↘	↘	↘	↘	↗
12	→	↗	↘	↘	↘	↘	↘	↘	↘	↘	↗	↙
13	→	→	↘	↘	↘	↘	↘	↘	↘	↙	↗	↙
14	↘	→	→	↘	Calm	↘	↘	↘	↘	↘	↘	→
15	→	Calm	↘	→	→	↘	↙	↘	↙	↙	↙	↙

	7:00 AM	8:00 AM	9:00 AM	10:00 AM	11:00 AM	12 NOON	1:00 PM	2:00 PM	3:00 PM	4:00 PM	5:00 PM	6:00 PM
16	↗	↗	↗	↘	Calm	→	↘	↘	↘	↘	↘	Calm
17	↗	→	↗	↘	↘	↘	↘	↘	↙	↘	Calm	↘
18	Calm	↗	Calm	↘	↘	↘	↘	↘	↘	↘	↘	Calm
19	→	↘	↘	↘	↘	↘	↘	↘	↘	↘	↘	↘
20	Calm	Calm	→	↘	↘	↘	↘	↙	↘	↙	↘	↘
21	→	↗	↘	Calm	↘	↘	↘	↘	↙	↘	↘	↘
22	Calm	Calm	Calm	↘	Calm	↘	↙	↘	↙	↘	↘	↘
23	Calm	Calm	Calm	Calm	Calm	↘	↘	↗	↘	↘	↘	↙
24	→	Calm	→	Calm	↘	↘	↘	↘	↘	↘	↘	↘
25	↗	↗	↗	Calm	↘	→	↘	↘	↘	↘	↘	↘
26	→	Calm	Calm	↗	↘	↘	↘	↘	↘	↘	↘	↙
27	Calm	Calm	→	Calm	↘	↘	↘	↘	↘	↘	↘	↗
28	Calm	Calm	↘	↘	↘	↘	↘	↘	→	↘	Calm	↗
29	→	→	→	Calm	Calm	Calm	↘	↘	↘	↘	↘	↗
30	Calm	Calm	Calm	↘	Calm	↙	↘	↘	↘	↘	Calm	↗
31	→	→	→	↘	↘	Calm	↘	↘	↘	↘	↘	↘

**AUGUST 2011**



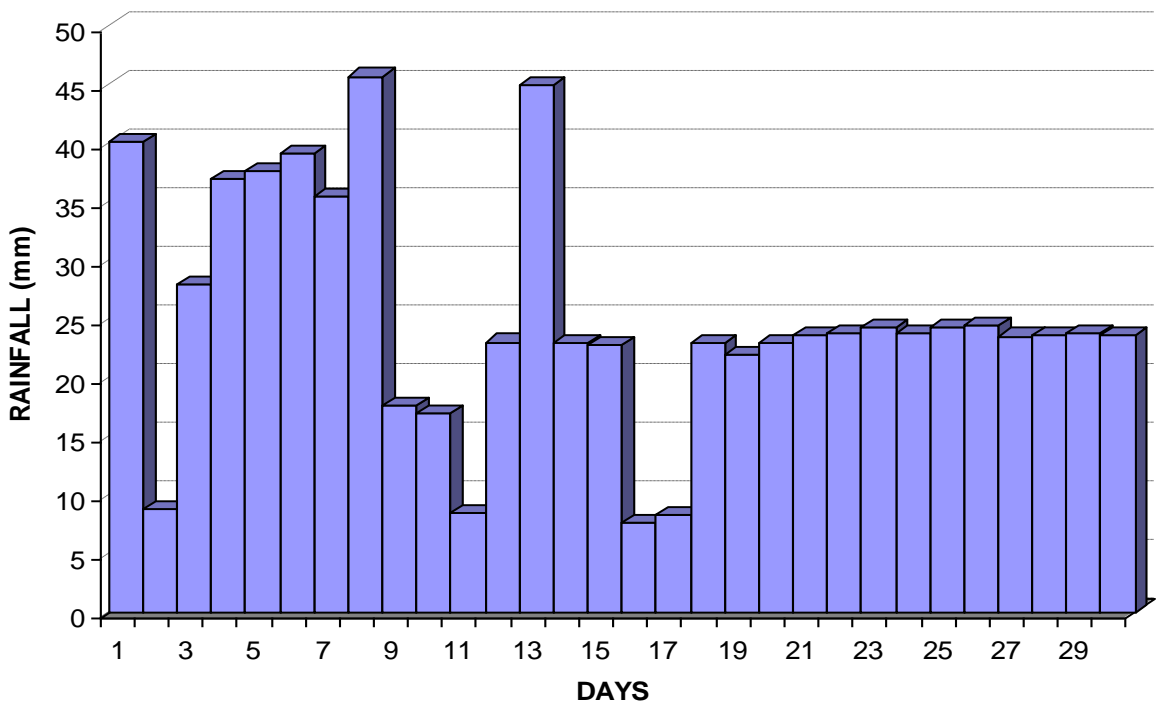
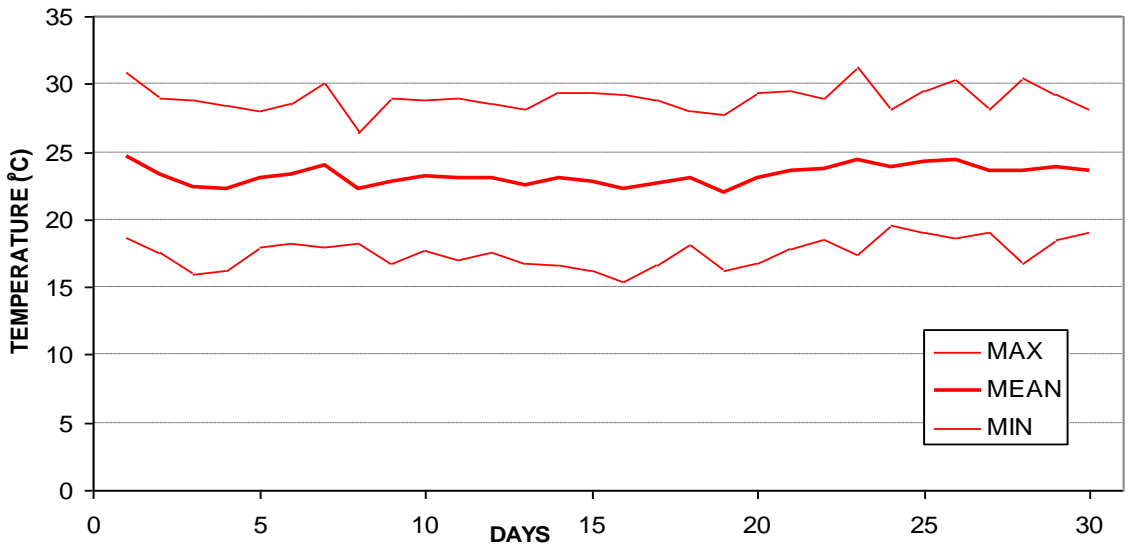
WIND DIRECTION FOR THE MONTH OF August

7:00 AM	8:00 AM	9:00 AM	10:00 AM	11:00 AM	12 NOON	1:00 PM	2:00 PM	3:00 PM	4:00 PM	5:00 PM	6:00 PM
1	Calm	Calm	↘	↘	Calm	↘	←	↘	←	↘	Calm
2	Calm	↘	Calm	↘	↘	↘	↘	↘	↘	↘	↘
3	↘	↘	↘	↘	↘	↘	↘	↘	↘	↘	↘
4	Calm	↘	↘	↘	↘	Calm	↘	↘	↘	↘	↘
5	Calm	↘	↘	↘	↘	↘	↘	↘	↘	↘	↘
6	Calm	Calm	↘	Calm	Calm	↘	↘	↘	↘	↘	↘
7	Calm	Calm	Calm	↘	Calm	↘	↘	↘	↘	↘	↘
8	Calm	Calm	↘	Calm	↘	↘	↘	Calm	↘	↘	↘
9	Calm	↘	↘	↘	↘	Calm	Calm	↘	Calm	↘	↘
10	Calm	Calm	Calm	↘	Calm	↘	↘	↘	↘	↘	↘
11	↘	↘	Calm	Calm	↘	↘	Calm	Calm	Calm	↘	Calm
12	Calm	Calm	↘	Calm	↘	Calm	↘	↘	↘	↘	↘
13	Calm	Calm	Calm	Calm	↘	↘	↘	↘	↘	↘	↘
14	Calm	Calm	Calm	↘	↘	↘	↘	↘	↘	Calm	Calm
15	Calm	Calm	↘	↘	↘	↘	↘	Calm	↘	Calm	↘

7:00 AM	8:00 AM	9:00 AM	10:00 AM	11:00 AM	12 NOON	1:00 PM	2:00 PM	3:00 PM	4:00 PM	5:00 PM	6:00 PM
16	Calm	Calm	Calm	Calm	↘	↘	↘	↘	↘	Calm	Calm
17	↘	Calm	↘	↘	↘	↘	↘	↘	↘	↘	↘
18	Calm	Calm	Calm	↘	↘	↘	↘	Calm	Calm	↘	↘
19	Calm	Calm	↘	↘	↘	↘	↘	↘	↘	↘	↘
20	Calm	↘	↘	↘	Calm	↘	↘	↘	↘	↘	Calm
21	Calm	Calm	↘	↘	↘	↘	↘	↘	↘	↘	↘
22	Calm	↘	Calm	Calm	↘	↘	↘	↘	↘	↘	↘
23	Calm	↘	↘	↘	Calm	↘	↘	↘	↘	↘	↘
24	↘	Calm	Calm	↘	↘	↘	↘	↘	↘	↘	↘
25	Calm	↘	↘	↘	↘	↘	↘	↘	↘	↘	↘
26	Calm	↘	↘	↘	Calm	↘	↘	↘	↘	↘	↘
27	Calm	Calm	↘	Calm	Calm	↘	↘	↘	↘	↘	↘
28	Calm	Calm	Calm	↘	↘	↘	↘	↘	↘	↘	↘
29	↘	↘	↘	↘	↘	↘	Calm	Calm	Calm	Calm	Calm
30	↘	↘	Calm	↘	↘	↘	↘	↘	↘	Calm	↘
31	Calm	↘	↘	↘	↘	↘	↘	↘	↘	↘	↘



# SEPTEMBER 2011



WIND DIRECTION FOR THE MONTH OF SEPTEMBER 2011

	7 a.m	8 a.m	9 a.m	11 a.m	12 noon	1 p.m	2 p.m	3 p.m	4 p.m	5 p.m	6 p.m
1											
2	Calm	Calm	Calm	Calm				Calm	Calm	Calm	Calm
3		Calm	Calm								Calm
4	Calm		Calm							Calm	
5											
6		Calm			Calm	Calm	Calm				
7					Calm	Calm					
8		Calm	Calm			Calm			Calm	Calm	
9		Calm	Calm	Calm	Calm						
10	Calm	Calm	Calm	Calm						Calm	

	7 a.m	8 a.m	9 a.m	11 a.m	12 noon	1 p.m	2 p.m	3 p.m	4 p.m	5 p.m	6 p.m
11	Calm	Calm		Calm						Calm	
12											
13	Calm									Calm	Calm
14	Calm									Calm	Calm
15	Calm	Calm									
16	Calm	Calm	Calm							Calm	
17	Calm	Calm									
18	Calm	Calm	Calm								Calm
19	Calm									Calm	Calm
20				Calm							



# Kakamega Forest





## Influence of the Forest on Rainfall

Large areas of forests such as Kakamega give off large quantities of moisture into the atmosphere through evapo-transpiration. Rain-bearing winds on passing over large forests pick up this moisture and this allows more rainfall to occur in the forested areas than in the neighbouring areas. Forests also provide friction to the rain-bearing winds making them slow down. If the winds are already moisture-laden and saturated, they are likely

