



UNIVERSIDAD NACIONAL DE COLOMBIA SEDE MANIZALES

OBSERVATORIOS AMBIENTALES PARA EL DESARROLLO URBANO SOTENIBLE EN MANIZALES

RED DE ESTACIONES HIDROMETEOROLÓGICAS PARA PREVENCIÓN DE DESASTRES DE MANIZALES



ESTACIÓN METEOROLÓGICA CHEC URIBE

CÓDIGO: EMM-14

MAYO DE 2011

RESUMEN DIARIO Y MENSUAL DE VARIABLES METEOROLÓGICAS

Variables Día	Temperatura del Aire (°C)			V.V. (m/s)		P.B. (HPa)	Humedad Relativa (%)			LI. (mm)	Radiación Solar (W/m ²)		ET. (mm)
	Máxima	Media	Mínima	Máxima	Media	Media	Máxima	Media	Mínima	Suma	Máxima	Media	Suma
1	24.2	19.3	17.1	3.6	1.3	813.9	94.0	85.4	68.0	26.8	1301.0	336.8	3.0
2	25.6	20.4	16.9	3.6	1.3	814.2	95.0	82.0	61.0	0.0	1382.0	466.6	3.8
3	19.8	18.6	17.4	3.6	1.0	814.8	97.0	90.1	79.0	3.6	169.0	82.4	0.8
4	24.2	19.9	17.1	3.6	1.2	816.4	92.0	82.0	67.0	0.0	1246.0	385.2	3.3
5	24.3	20.4	17.3	3.6	1.0	814.8	92.0	82.9	72.0	0.0	842.0	363.4	3.1
6	25.7	21.0	16.9	4.0	1.2	814.6	92.0	81.4	62.0	0.0	1137.0	404.0	3.6
7	25.1	20.9	18.4	3.1	0.8	814.3	94.0	83.5	65.0	0.0	1271.0	307.2	2.6
8	23.6	20.2	17.4	4.0	1.1	814.2	93.0	84.3	73.0	3.4	1266.0	271.3	2.4
9	23.1	19.4	17.5	3.6	0.8	814.5	98.0	90.8	79.0	4.0	1317.0	226.8	1.9
10	25.8	20.4	16.9	4.5	1.6	813.9	92.0	81.8	60.0	1.6	1171.0	361.9	3.2
11	20.8	19.1	17.1	3.6	0.9	814.8	97.0	90.3	80.0	5.4	434.0	116.6	1.0
12	23.9	19.2	16.8	4.0	1.1	816.9	95.0	87.2	75.0	16.8	1034.0	270.6	2.2
13	23.2	18.2	16.1	4.0	1.1	817.1	97.0	91.9	80.0	63.4	1394.0	349.8	2.4
14	19.6	17.3	15.8	3.6	1.2	818.7	97.0	92.4	86.0	6.6	436.0	156.3	1.2
15	22.2	18.2	15.2	2.7	0.8	819.0	97.0	88.8	73.0	0.4	836.0	351.2	2.9
16	23.7	19.3	16.1	3.6	0.7	817.6	98.0	89.8	79.0	8.0	958.0	334.5	2.6
17	24.9	19.4	16.6	4.9	1.0	817.4	98.0	85.5	65.0	0.4	1067.0	434.4	3.5
18	25.0	18.9	16.6	7.6	1.3	818.0	93.0	84.8	62.0	7.4	1255.0	528.5	4.2
19	22.2	18.3	16.4	2.7	0.9	819.2	93.0	87.8	75.0	3.4	1143.0	270.6	2.1
20	24.3	19.1	15.6	2.7	0.8	817.9	94.0	84.4	61.0	0.0	1016.0	299.7	2.4
21	21.4	18.3	16.3	2.7	0.4	817.5	98.0	93.5	81.0	17.4	800.0	198.0	1.5
22	21.6	18.0	16.4	4.0	0.8	818.7	98.0	93.3	82.0	10.4	1401.0	235.0	1.7
23	24.3	19.3	15.6	3.1	0.8	818.0	97.0	86.9	70.0	0.2	1199.0	309.5	2.5
24	23.8	19.6	16.6	2.7	0.6	816.9	98.0	86.6	66.0	7.4	1355.0	337.5	2.9
25	22.8	18.8	16.3	2.2	0.3	817.6	98.0	91.8	77.0	1.8	1350.0	286.3	2.2
26	22.2	18.4	16.3	4.5	1.6	817.7	95.0	87.4	79.0	9.0	1257.0	214.3	1.9
27	24.7	19.4	15.3	4.0	1.4	817.2	88.0	80.5	62.0	0.4	1253.0	388.9	3.4
28	21.9	19.0	16.8	2.2	0.5	815.5	95.0	89.8	79.0	5.2	990.0	239.7	1.9
29	22.9	18.8	16.3	4.5	1.5	815.1	92.0	86.4	71.0	2.2	1269.0	284.9	2.5
30	25.5	20.1	16.8	3.6	1.0	814.9	91.0	84.4	67.0	2.8	1339.0	319.0	2.8
31	23.3	19.7	17.9	3.1	0.5	814.9	98.0	88.6	74.0	2.8	940.0	240.8	1.8
Mensual	25.8	19.3	15.2	7.6	1.0	816.3	98.0	87.0	60.0	210.8	1401.0	302.3	77.1

Convenciones: V.V.: Velocidad del Viento P.B.: Presión Barométrica LI.: Lluvia diaria ET.: Evapotranspiración. Nota: Datos resaltados en rojo están incompletos.



UNIVERSIDAD NACIONAL DE COLOMBIA SEDE MANIZALES
OBSERVATORIOS AMBIENTALES PARA EL DESARROLLO URBANO SOTENIBLE EN MANIZALES
RED DE ESTACIONES HIDROMETEOROLÓGICAS PARA PREVENCIÓN DE DESASTRES DE MANIZALES
ESTACIÓN METEOROLÓGICA CHEC URIBE
CÓDIGO: EMM-14



MAYO DE 2011

JORNADA DIURNA - DIRECCIÓN DEL VIENTO SEGÚN LA ROSA DE LOS VIENTOS (Frecuencia relativa)

Día	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSO	SO	OSO	O	ONO	NO	NNO
1	8%	3%	1%	1%	4%	7%	15%	9%	1%	1%	1%	6%	5%	10%	17%	10%
2	3%	2%	1%	1%	1%	9%	10%	7%	1%	1%	1%	3%	8%	19%	24%	10%
3	3%	1%	3%	7%	4%	8%	11%	19%	2%	0%	1%	3%	2%	6%	19%	12%
4	3%	5%	1%	0%	1%	6%	15%	10%	1%	1%	2%	2%	6%	14%	22%	12%
5	10%	2%	1%	1%	1%	3%	6%	10%	1%	3%	3%	6%	6%	13%	22%	12%
6	9%	3%	2%	2%	1%	2%	6%	6%	0%	0%	1%	6%	12%	19%	18%	14%
7	10%	7%	1%	0%	2%	3%	3%	6%	0%	1%	1%	4%	5%	16%	26%	16%
8	2%	3%	3%	2%	1%	5%	18%	14%	1%	0%	2%	2%	3%	10%	19%	14%
9	6%	7%	0%	1%	0%	8%	17%	6%	1%	0%	1%	1%	2%	15%	23%	14%
10	3%	3%	1%	1%	2%	8%	15%	12%	1%	1%	0%	0%	5%	17%	16%	15%
11	3%	2%	0%	0%	0%	3%	8%	5%	2%	1%	1%	1%	4%	19%	33%	18%
12	5%	1%	3%	1%	1%	6%	24%	6%	1%	0%	1%	1%	8%	7%	17%	16%
13	2%	6%	2%	3%	1%	5%	24%	13%	1%	2%	0%	1%	8%	13%	13%	6%
14	6%	10%	1%	0%	2%	5%	14%	11%	3%	1%	0%	2%	8%	8%	16%	14%
15	3%	4%	4%	0%	0%	1%	7%	10%	0%	1%	0%	6%	11%	18%	22%	13%
16	5%	6%	1%	0%	2%	2%	6%	1%	1%	0%	1%	1%	6%	23%	33%	12%
17	8%	4%	1%	2%	2%	4%	10%	8%	1%	3%	4%	1%	8%	15%	22%	7%
18	9%	3%	0%	1%	4%	8%	15%	8%	1%	1%	1%	2%	8%	12%	17%	8%
19	7%	6%	1%	1%	6%	16%	15%	5%	1%	3%	0%	0%	7%	9%	17%	8%
20	7%	14%	3%	2%	3%	2%	1%	12%	0%	1%	0%	0%	2%	11%	33%	9%
21	6%	2%	2%	1%	3%	6%	19%	6%	1%	0%	1%	0%	8%	12%	22%	11%
22	6%	5%	0%	2%	3%	11%	18%	13%	2%	1%	1%	1%	5%	6%	16%	12%
23	8%	5%	2%	1%	1%	4%	4%	3%	3%	0%	1%	4%	6%	15%	31%	12%
24	7%	6%	3%	0%	1%	7%	10%	8%	4%	1%	0%	5%	7%	8%	23%	9%
25	8%	5%	5%	0%	0%	0%	2%	10%	1%	1%	0%	3%	11%	19%	25%	10%
26	5%	0%	0%	1%	7%	15%	23%	10%	1%	0%	0%	2%	3%	11%	18%	3%
27	10%	13%	1%	0%	0%	5%	16%	4%	0%	0%	0%	1%	5%	13%	20%	13%
28	4%	2%	1%	0%	1%	6%	1%	2%	0%	1%	0%	0%	4%	22%	34%	21%
29	8%	2%	1%	0%	1%	13%	24%	9%	1%	1%	1%	3%	5%	8%	15%	9%
30	5%	4%	2%	1%	1%	7%	7%	9%	1%	1%	0%	4%	8%	10%	33%	8%
31	13%	6%	1%	0%	0%	5%	3%	6%	0%	0%	0%	2%	8%	10%	37%	10%
Mensual	6%	5%	2%	1%	2%	6%	12%	8%	1%	1%	1%	2%	6%	13%	23%	11%

DIRECCIÓN DEL VIENTO EN EL MES ORDENADA DE MAYOR A MENOR PREDOMINANCIA																
R. V.	NO	ONO	SE	NNO	SSE	O	N	ESE	NNE	OSO	E	NE	S	ENE	SO	SSO
F. R.	23%	13%	12%	11%	8%	6%	6%	6%	5%	2%	2%	2%	1%	1%	1%	1%

Convenciones: R. V.: Rosa de los Vientos F. R.: Frecuencia Relativa. Nota: Datos resaltados en rojo están incompletos.



UNIVERSIDAD NACIONAL DE COLOMBIA SEDE MANIZALES
OBSERVATORIOS AMBIENTALES PARA EL DESARROLLO URBANO SOTENIBLE EN MANIZALES
RED DE ESTACIONES HIDROMETEOROLÓGICAS PARA PREVENCIÓN DE DESASTRES DE MANIZALES



ESTACIÓN METEOROLÓGICA CHEC URIBE

CÓDIGO: EMM-14

MAYO DE 2011

JORNADA NOCTURNA - DIRECCIÓN DEL VIENTO SEGÚN LA ROSA DE LOS VIENTOS (Frecuencia relativa)

DÍA	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSO	SO	OSO	O	ONO	NO	NNO
1	6%	1%	0%	1%	7%	16%	39%	25%	0%	1%	1%	2%	0%	0%	0%	1%
2	10%	0%	0%	3%	5%	17%	46%	17%	0%	0%	0%	0%	0%	2%	0%	0%
3	0%	0%	0%	0%	2%	18%	44%	33%	0%	0%	1%	2%	0%	0%	0%	0%
4	0%	0%	0%	0%	2%	15%	45%	36%	1%	0%	0%	0%	0%	1%	0%	0%
5	1%	0%	0%	1%	3%	15%	40%	23%	1%	7%	1%	1%	2%	6%	0%	0%
6	11%	0%	0%	1%	1%	17%	42%	26%	0%	0%	1%	0%	0%	0%	1%	0%
7	3%	0%	3%	2%	4%	26%	40%	13%	0%	0%	0%	0%	1%	1%	6%	0%
8	0%	0%	3%	3%	5%	19%	48%	17%	0%	1%	1%	0%	0%	0%	0%	2%
9	0%	1%	9%	0%	3%	13%	36%	16%	1%	0%	0%	1%	2%	0%	7%	12%
10	0%	0%	0%	0%	3%	12%	47%	35%	0%	0%	0%	0%	0%	0%	0%	3%
11	1%	0%	0%	0%	3%	8%	47%	33%	1%	0%	0%	0%	0%	3%	0%	4%
12	2%	2%	0%	1%	2%	17%	50%	22%	0%	2%	0%	1%	0%	0%	0%	1%
13	1%	1%	1%	0%	5%	12%	46%	26%	3%	1%	0%	1%	1%	0%	1%	1%
14	0%	2%	0%	1%	6%	22%	43%	25%	1%	0%	0%	0%	0%	0%	1%	0%
15	0%	0%	0%	0%	2%	8%	55%	24%	0%	0%	0%	0%	0%	0%	3%	8%
16	3%	0%	0%	0%	6%	15%	28%	19%	0%	1%	1%	1%	2%	6%	8%	8%
17	0%	1%	0%	0%	6%	10%	55%	18%	0%	0%	0%	0%	0%	0%	9%	2%
18	3%	1%	1%	0%	6%	21%	42%	22%	2%	0%	0%	1%	1%	0%	0%	0%
19	1%	0%	0%	0%	6%	8%	39%	40%	0%	0%	0%	0%	0%	0%	1%	5%
20	2%	0%	1%	0%	2%	12%	61%	22%	0%	0%	0%	0%	0%	0%	0%	0%
21	19%	6%	0%	0%	8%	2%	35%	8%	0%	0%	0%	1%	1%	9%	10%	0%
22	8%	0%	3%	1%	1%	10%	44%	23%	0%	0%	0%	8%	0%	0%	0%	3%
23	5%	0%	0%	0%	3%	13%	47%	19%	3%	0%	0%	0%	0%	8%	1%	0%
24	7%	6%	2%	0%	5%	7%	40%	15%	0%	0%	0%	3%	1%	3%	8%	4%
25	11%	1%	0%	0%	1%	3%	36%	8%	1%	0%	0%	0%	2%	9%	11%	17%
26	0%	0%	0%	0%	1%	21%	50%	24%	1%	1%	1%	1%	0%	0%	0%	0%
27	0%	7%	1%	0%	1%	7%	53%	31%	1%	0%	0%	0%	0%	0%	0%	0%
28	0%	0%	0%	0%	5%	11%	34%	23%	0%	0%	0%	0%	0%	0%	0%	27%
29	0%	0%	0%	0%	1%	19%	54%	26%	0%	0%	0%	0%	0%	0%	0%	0%
30	9%	2%	0%	0%	1%	13%	45%	27%	2%	0%	0%	0%	1%	0%	0%	0%
31	15%	5%	2%	10%	3%	19%	10%	8%	1%	0%	0%	1%	2%	6%	3%	15%
Mensual	4%	1%	1%	1%	4%	14%	43%	23%	1%	0%	0%	1%	1%	2%	2%	4%

DIRECCIÓN DEL VIENTO EN EL MES ORDENADA DE MAYOR A MENOR PREDOMINANCIA																
R. V.	SE	SSE	ESE	N	NNO	E	NO	ONO	NNE	NE	OSO	ENE	S	O	SSO	SO
F. R.	43%	23%	14%	4%	4%	4%	2%	2%	1%	1%	1%	1%	1%	1%	0%	0%

Convenciones: R. V.: Rosa de los Vientos F. R.: Frecuencia Relativa. Nota: Datos resaltados en rojo están incompletos.