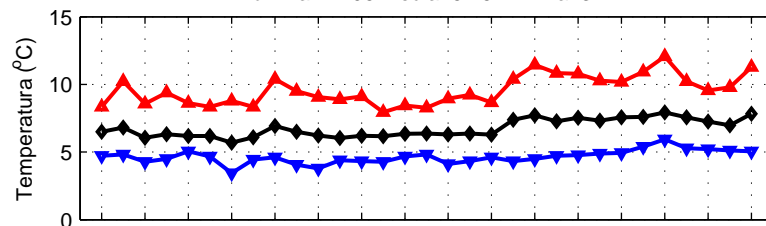


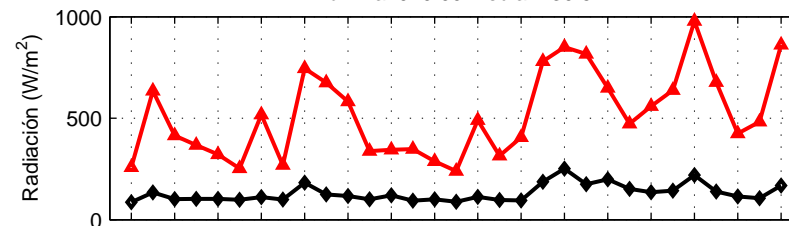
**Estación: Cortaderal**  
**Fecha: Diciembre de 2011**  
**Registros: 31 de 31**

Reporte climatológico mensual  
Red Hidroclimatológica del Departamento de Risaralda  
Revisó: Adm. Ambiental Victor Manuel Bermúdez Marín. Operador REDH  
Aprobó: Ing Ph.D. Juan Mauricio Castaño Rojas. Director REDH.  
Contáctenos: <http://www.utp.edu.co/hidroclimatologica>

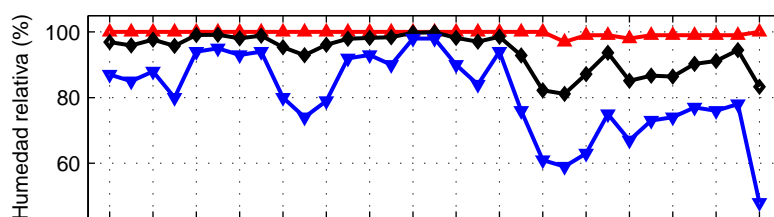
Máxima: 12.06 Media: 6.76 Mínima: 3.44



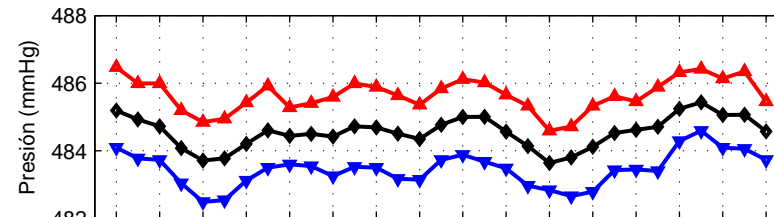
Máxima: 979.00 Media: 130.61



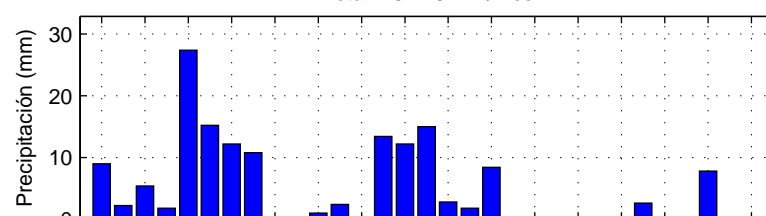
Máxima: 100.00 Media: 93.81 Mínima: 48.00



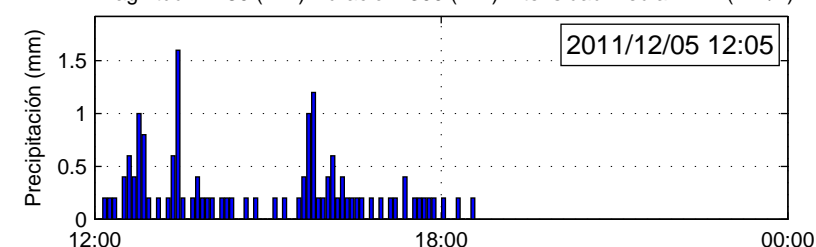
Máxima: 486.47 Media: 484.55 Mínima: 482.49



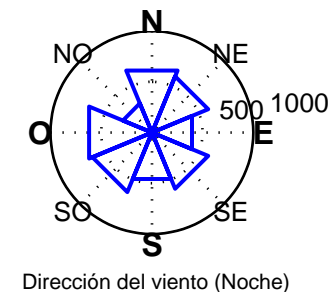
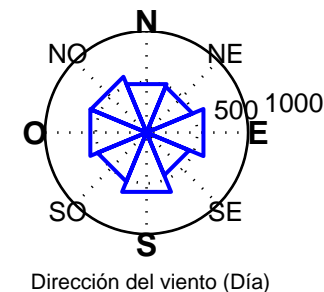
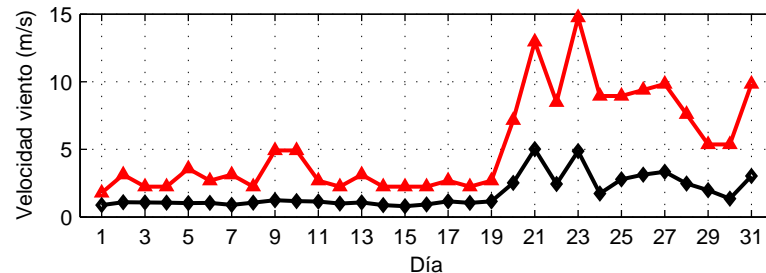
Total: 152.20 mm/mes



Magnitud: 17.80 (mm) Duración: 390 (min) Intensidad Media: 2.74 (mm/h)



Máxima: 14.75 Media: 1.76



**Estación: Cortaderal**  
**Fecha: Diciembre de 2011**  
**Registros: 31 de 31**

Reporte climatológico mensual  
 Red Hidroclimatológica del Departamento de Risaralda  
 Revisó: Adm. Ambiental Victor Manuel Bermúdez Marín. Operador REDH  
 Aprobó: Ing Ph.D. Juan Mauricio Castaño Rojas. Director REDH.  
 Contáctenos: [www.utp.edu.co/hidroclimatologica](http://www.utp.edu.co/hidroclimatologica)

Día	Temperatura (°C)			Vel. Viento (m/s)		Presión (mmHg)	Humedad (%)	Precipitación (mm)	Evap (mm)	Radiación solar (W/m <sup>2</sup> )	
	Máx	Media	Mín	Máx	Media	Media	Media	Total	Total	Máx	Media
1	8.33	6.49	4.72	1.79	0.88	485.19	96.89	9.00	0.41	258.00	86.30
2	10.22	6.80	4.83	3.13	1.10	484.93	95.89	2.20	0.64	635.00	134.68
3	8.56	6.06	4.28	2.24	1.08	484.73	97.65	5.40	0.53	415.00	101.71
4	9.39	6.32	4.50	2.24	1.06	484.08	95.77	1.80	0.48	367.00	102.34
5	8.61	6.18	5.06	3.58	1.02	483.71	99.08	27.40	0.41	322.00	102.53
6	8.33	6.19	4.67	2.68	1.05	483.78	99.15	15.20	0.43	253.00	97.92
7	8.78	5.69	3.44	3.13	0.89	484.21	98.06	12.20	0.56	517.00	111.58
8	8.33	6.09	4.44	2.24	1.07	484.61	98.84	10.80	0.43	269.00	98.66
9	10.39	6.92	4.61	4.92	1.24	484.44	95.37	0.20	0.94	745.00	181.84
10	9.50	6.50	4.06	4.92	1.17	484.50	92.88	0.00	0.64	675.00	123.96
11	9.06	6.22	3.78	2.68	1.15	484.42	96.12	1.00	0.56	582.00	116.28
12	8.89	6.04	4.39	2.24	0.99	484.73	97.95	2.40	0.46	338.00	99.68
13	9.11	6.21	4.33	3.13	1.07	484.69	98.21	0.40	0.61	345.00	119.40
14	7.94	6.17	4.28	2.24	0.87	484.50	98.38	13.40	0.43	348.00	93.15
15	8.44	6.35	4.67	2.24	0.80	484.35	99.78	12.20	0.46	288.00	100.02
16	8.28	6.37	4.83	2.24	0.92	484.77	99.86	15.00	0.43	239.00	87.78
17	8.94	6.30	4.11	2.68	1.16	485.00	98.20	2.80	0.51	490.00	112.15
18	9.22	6.37	4.33	2.24	1.04	485.01	97.04	1.80	0.51	315.00	96.90
19	8.67	6.28	4.61	2.68	1.16	484.57	98.56	8.40	0.43	406.00	94.86
20	10.39	7.39	4.33	7.15	2.52	484.14	92.86	0.20	1.17	780.00	187.06
21	11.44	7.72	4.50	12.96	5.01	483.64	82.25	0.00	2.03	851.00	251.51
22	10.83	7.27	4.72	8.49	2.44	483.80	81.15	0.00	1.35	817.00	174.85
23	10.78	7.53	4.78	14.75	4.88	484.12	87.16	0.00	1.63	649.00	198.43
24	10.28	7.32	4.89	8.94	1.74	484.53	93.69	0.00	0.84	473.00	151.20
25	10.17	7.56	4.94	8.94	2.79	484.62	85.11	0.00	1.12	559.00	135.70
26	10.94	7.60	5.39	9.39	3.13	484.71	86.67	2.60	1.09	638.00	143.20
27	12.06	7.93	5.94	9.83	3.34	485.25	86.43	0.00	1.70	979.00	219.45
28	10.22	7.57	5.28	7.60	2.48	485.43	90.29	0.00	0.99	677.00	138.11
29	9.56	7.25	5.22	5.36	1.97	485.06	91.13	7.80	0.71	424.00	114.20
30	9.78	6.97	5.11	5.36	1.36	485.07	94.47	0.00	0.56	482.00	105.77
31	11.28	7.83	5.06	9.83	3.03	484.57	83.34	0.00	1.32	861.00	167.78
TOTAL								152.20	24.38		
PROM	9.57	6.76	4.65	5.22	1.76	484.55	93.81			516.03	130.61

Cuadro 1: Resumen de análisis climatológico

**Estación: Cortaderal**  
**Fecha: Diciembre de 2011**  
**Registros: 31 de 31**

Reporte climatológico mensual  
 Red Hidroclimatológica del Departamento de Risaralda  
 Revisó: Adm. Ambiental Victor Manuel Bermúdez Marín. Operador REDH  
 Aprobó: Ing Ph.D. Juan Mauricio Castaño Rojas. Director REDH.  
 Contáctenos: [www.utp.edu.co/hidroclimatologica](http://www.utp.edu.co/hidroclimatologica)

Día	Lluvias por intensidad				Lluvias por jornada				CLL	PT (mm)	DP		DM (min)	MM (mm)	IMM (mm/h)	IM5 (mm/h)
	F	M	L	LL	Md	Mñ	T	N			(h)	(%)				
1	0	1	3	1	1	2	2	0	5	9.00	3.00	12.50	85.00	3.80	2.53	7.20
2	0	1	3	0	1	0	2	1	4	2.20	0.58	2.43	35.00	1.60	2.40	9.60
3	0	1	5	0	0	1	5	0	6	5.40	1.17	4.86	60.00	4.40	4.06	14.40
4	0	0	5	0	0	0	4	1	5	1.80	0.75	3.13	35.00	0.80	1.20	2.40
5	0	1	5	0	1	2	1	2	6	27.40	7.67	31.94	390.00	17.80	2.70	19.20
6	0	2	8	1	0	2	4	5	11	15.20	4.25	17.71	150.00	6.60	2.55	7.20
7	0	0	5	0	0	0	2	3	5	12.20	4.00	16.67	270.00	10.20	2.23	9.60
8	0	2	5	0	0	2	4	1	7	10.80	2.67	11.11	145.00	7.80	3.12	12.00
9	0	0	1	0	1	0	0	0	1	0.20	0.08	0.35	10.00	0.20	0.80	2.40
10	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0	0	3	0	0	0	3	0	3	1.00	0.33	1.39	25.00	0.60	1.20	4.80
12	0	1	5	0	1	0	4	1	6	2.40	0.83	3.47	25.00	1.20	2.40	4.80
13	0	0	2	0	1	0	1	0	2	0.40	0.17	0.69	10.00	0.20	0.80	2.40
14	0	2	8	0	2	1	2	5	10	13.40	4.33	18.06	195.00	8.40	2.52	7.20
15	0	1	9	1	0	3	4	4	11	12.20	3.58	14.93	155.00	5.80	2.17	9.60
16	0	1	13	1	2	3	5	5	15	15.00	5.25	21.88	65.00	3.40	2.91	9.60
17	0	0	3	0	1	0	2	0	3	2.80	1.00	4.17	75.00	2.40	1.80	4.80
18	0	0	2	0	0	0	2	0	2	1.80	0.58	2.43	40.00	1.40	1.87	4.80
19	0	1	3	0	0	1	2	1	4	8.40	2.25	9.38	145.00	7.60	3.04	12.00
20	0	0	1	0	0	1	0	0	1	0.20	0.08	0.35	10.00	0.20	0.80	2.40
21	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0	0	3	0	0	0	3	0	3	2.60	0.75	3.13	35.00	1.40	2.10	4.80
27	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	1	0	1	0	0	0	2	0	2	7.80	0.83	3.47	30.00	6.80	11.66	33.60
30	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX	1	2	13	1	2	3	5	5	15	27.40	7.67	31.94	390.00	17.80	11.66	33.60
TOTAL	1	14	93	4	11	18	54	29	112	152.20	44.17	5.94				

Cuadro 1: Análisis mensual de lluvias

F	Fuerte	$7.6 \text{ (mm/h)} \leq \text{intensidad}$
M	Moderada	$2.5 \text{ (mm/h)} < \text{intensidad} \leq 7.6 \text{ (mm/h)}$
L	Ligera	$1.0 \text{ (mm/h)} < \text{intensidad} \leq 2.5 \text{ (mm/h)}$
LL	Llovizna	$1.0 \text{ (mm/h)} \geq \text{intensidad}$

Md	Madrugada	00:00 - 05:59
Mñ	Mañana	06:00 - 11:59
T	Tarde	12:00 - 17:59
N	Noche	18:00 - 23:59

CLL	Cantidad de Lluvias
PT	Precipitación total (mm)
DP	Duración precipitación diaria
DM	Duración máxima lluvia aislada (min)
MM	Magnitud máx. lluvia aislada (mm)
IMM	Intensidad media máxima (mm/h)
IM5	Intensidad máx. en 5 minutos (mm/h)

Cuadro 2: Convenciones y Unidades