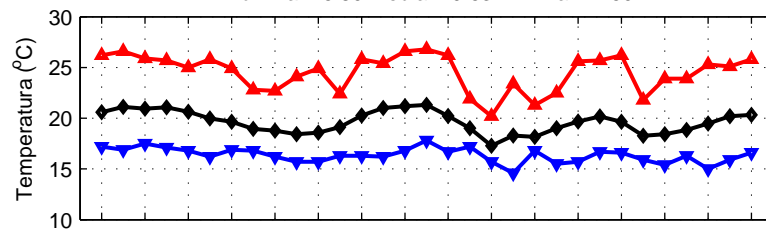


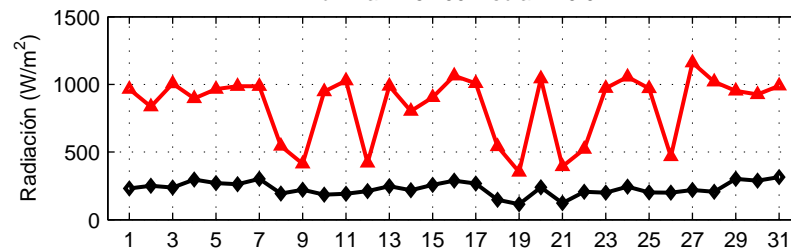
**Estación: Mundo Nuevo**  
**Fecha: Diciembre de 2009**  
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Reporte climatológico mensual  
Red Hidroclimatológica del Departamento de Risaralda  
Revisó: Adm. Ambiental Víctor Manuel Bermúdez Marín. Operador REDH  
Aprobó: Ing Ph.D. Juan Mauricio Castaño Rojas. Director REDH.  
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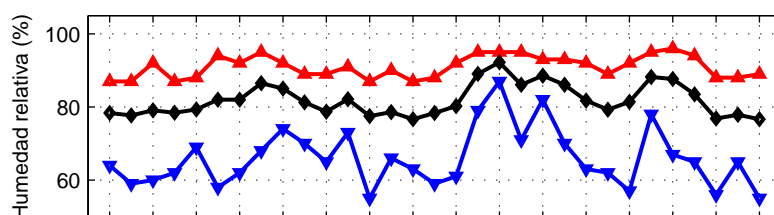
Máxima: 26.80 Media: 19.63 Mínima: 14.60



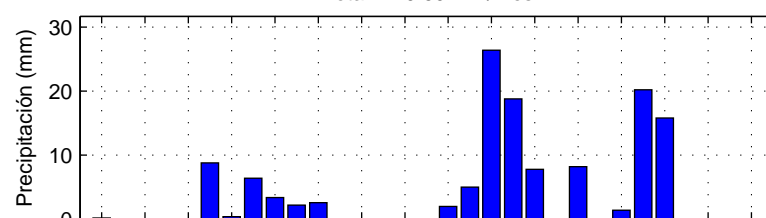
Máxima: 1161.00 Media: 229.92



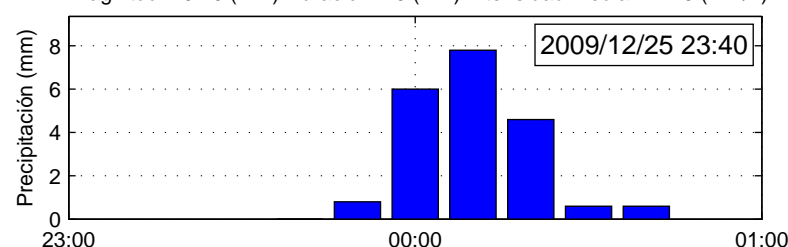
Máxima: 96.00 Media: 81.82 Mínima: 55.00



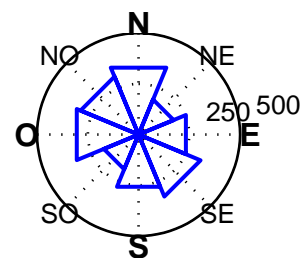
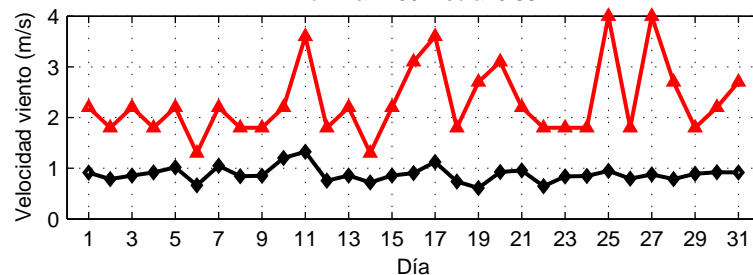
Total: 129.60 mm/mes



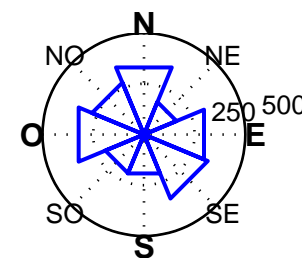
Magnitud: 20.40 (mm) Duración: 70 (min) Intensidad Media: 17.49 (mm/h)



Máxima: 4.00 Media: 0.88



Dirección del viento (Día)



Dirección del viento (Noche)



**Estación: Mundo Nuevo**  
**Fecha: Diciembre de 2009**  
**Registros: 31 de 31**

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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	26.20	20.59	17.20	2.20	0.91	766.22	78.34	0.20	0.00	965.00	231.25
2	26.60	21.12	16.90	1.80	0.79	766.04	77.66	0.00	0.00	835.00	250.56
3	25.90	20.95	17.50	2.20	0.86	765.67	79.06	0.00	0.00	1007.00	238.04
4	25.70	21.08	17.10	1.80	0.92	765.71	78.38	0.00	0.00	897.00	296.03
5	25.00	20.64	16.80	2.20	1.02	766.00	79.33	0.00	0.00	966.00	270.61
6	25.80	19.97	16.20	1.30	0.66	766.31	82.02	8.80	0.00	986.00	261.32
7	24.90	19.66	16.90	2.20	1.05	766.45	82.00	0.40	0.00	986.00	301.14
8	22.80	18.94	16.80	1.80	0.84	766.72	86.49	6.40	0.00	545.00	193.09
9	22.70	18.77	16.20	1.80	0.85	766.81	85.06	3.40	0.00	413.00	221.01
10	24.10	18.42	15.70	2.20	1.20	760.42	81.25	2.20	0.00	947.00	185.29
11	24.90	18.58	15.70	3.60	1.33	708.52	78.68	2.60	0.00	1028.00	191.85
12	22.40	19.13	16.30	1.80	0.75	678.99	82.08	0.00	0.00	420.00	210.66
13	25.80	20.26	16.30	2.20	0.86	672.80	77.51	0.00	0.00	989.00	246.65
14	25.40	21.00	16.20	1.30	0.72	672.80	78.57	0.00	0.00	803.00	217.20
15	26.60	21.19	16.80	2.20	0.86	672.80	76.66	0.00	0.00	905.00	256.90
16	26.80	21.30	17.80	3.10	0.90	672.80	78.33	0.00	0.00	1063.00	288.06
17	26.20	20.22	16.70	3.60	1.12	672.80	80.21	2.00	0.00	1008.00	266.38
18	21.90	19.02	17.20	1.80	0.74	672.80	89.02	5.00	0.00	541.00	146.79
19	20.20	17.28	15.70	2.70	0.61	672.80	92.21	26.40	0.00	352.00	114.76
20	23.40	18.28	14.60	3.10	0.93	672.80	86.03	18.80	0.00	1043.00	239.30
21	21.30	18.15	16.80	2.20	0.96	672.80	88.53	7.80	0.00	394.00	121.66
22	22.50	19.01	15.50	1.80	0.64	672.80	86.05	0.00	0.00	521.00	205.83
23	25.60	19.67	15.70	1.80	0.84	672.80	81.78	8.20	0.00	971.00	199.87
24	25.70	20.17	16.70	1.80	0.85	672.80	79.26	0.00	0.00	1055.00	244.01
25	26.20	19.65	16.60	4.00	0.95	672.80	81.35	1.40	0.00	970.00	200.62
26	21.80	18.27	15.90	1.80	0.80	672.80	88.17	20.20	0.00	468.00	198.83
27	23.90	18.42	15.40	4.00	0.88	672.80	87.65	15.80	0.00	1161.00	219.53
28	23.90	18.85	16.30	2.70	0.79	672.80	83.47	0.00	0.00	1020.00	206.49
29	25.30	19.48	15.00	1.80	0.89	672.80	76.81	0.00	0.00	952.00	301.60
30	25.10	20.20	15.90	2.20	0.92	672.80	77.85	0.00	0.00	926.00	288.20
31	25.80	20.32	16.60	2.70	0.92	672.80	76.63	0.00	0.00	990.00	313.89
TOTAL								129.60	0.00		
PROM	24.53	19.63	16.35	2.31	0.88	704.10	81.82			842.81	229.92

Cuadro 1: Resumen de análisis climatológico

**Estación: Mundo Nuevo**  
**Fecha: Diciembre de 2009**  
**Registros: 31 de 31**

Red Hidroclimatológica del Departamento de Risaralda  
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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	0	0	1	0	0	1	0	1	0.20	0.17	0.69	20.00	0.20	0.40	1.20
2	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	1	0	0	1	2	0	0	0	2	8.80	0.83	3.47	60.00	8.60	7.37	36.00
7	0	0	0	2	0	0	1	1	2	0.40	0.33	1.39	20.00	0.20	0.40	1.20
8	1	0	0	1	2	0	0	0	2	6.40	0.67	2.78	40.00	6.20	7.44	16.80
9	0	0	2	0	0	0	1	1	2	3.40	1.17	4.86	50.00	2.00	2.00	3.60
10	0	0	1	0	0	0	1	0	1	2.20	1.33	5.56	100.00	2.20	1.20	2.40
11	0	0	1	0	0	0	1	0	1	2.60	1.33	5.56	110.00	2.60	1.30	2.40
12	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0	0	1	1	0	0	0	2	2	2.00	1.00	4.17	70.00	1.60	1.20	4.80
18	0	2	0	2	1	0	2	1	4	5.00	1.83	7.64	50.00	2.40	2.40	7.20
19	0	2	1	4	1	3	3	0	7	26.40	5.50	22.92	190.00	16.20	4.86	21.60
20	1	0	0	1	0	1	1	0	2	18.80	1.00	4.17	60.00	18.60	15.94	50.40
21	0	1	1	1	0	1	2	0	3	7.80	1.67	6.94	80.00	7.00	4.67	10.80
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	1	0	0	0	0	0	1	0	1	8.20	0.83	3.47	60.00	8.20	7.03	28.80
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	1	3	1	0	2	1	4	1.40	0.67	2.78	20.00	0.80	1.60	4.80
26	1	0	0	1	1	0	1	0	2	20.20	1.33	5.56	50.00	19.60	19.60	46.80
27	1	0	0	2	1	0	1	1	3	15.80	1.17	4.86	60.00	15.40	13.20	38.40
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	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	2	4	2	3	3	2	7	26.40	5.50	22.92	190.00	19.60	19.60	50.40
TOTAL	6	5	8	20	9	5	18	7	39	129.60	20.83	2.80				

Cuadro 1: Análisis mensual de lluvias

F	Fuerte	$7.6 \text{ (mm/h)} < \text{intensidad}$
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