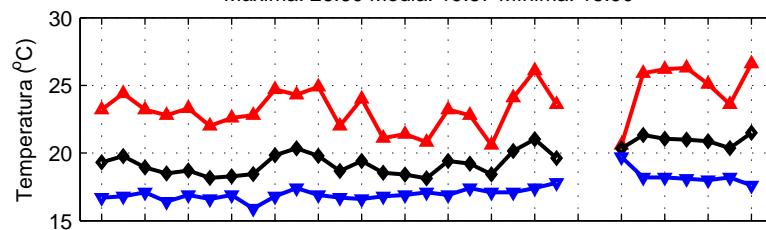


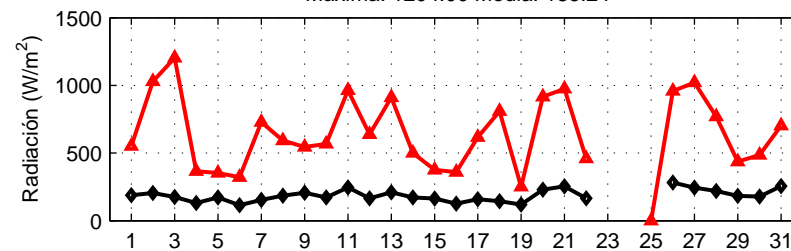
**Estación: Mundo Nuevo**  
**Fecha: Diciembre de 2011**  
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Reporte climatológico mensual  
Red Hidroclimatológica del Departamento de Risaralda  
Revisó: Adm. Ambiental Víctor Manuel Bermúdez Marín. Operador REDH  
Aprobó: Ing Ph.D. Juan Mauricio Castaño Rojas. Director REDH.  
Contáctenos: <http://www.utp.edu.co/hidroclimatologica>

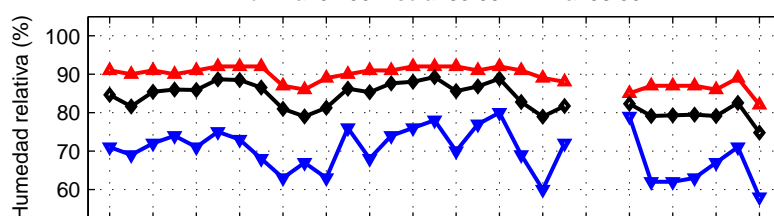
Máxima: 26.60 Media: 19.57 Mínima: 15.90



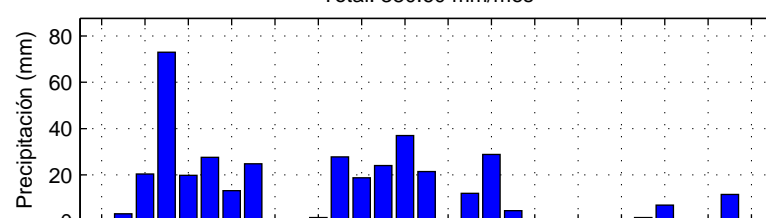
Máxima: 1204.00 Media: 186.24



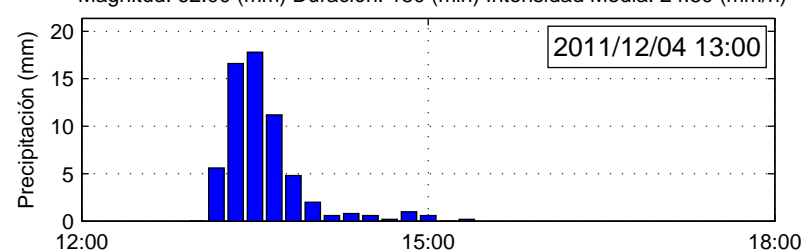
Máxima: 92.00 Media: 83.66 Mínima: 58.00



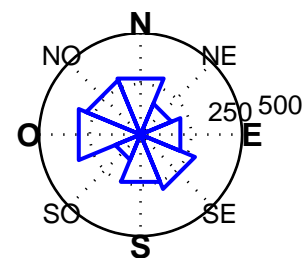
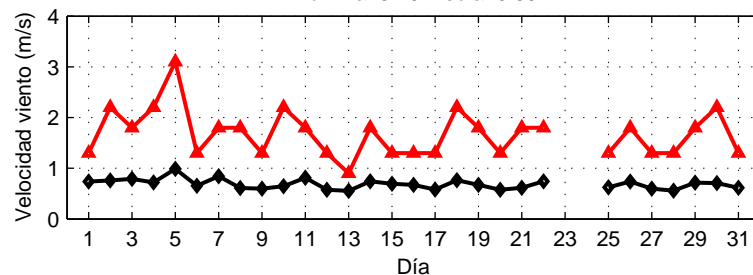
Total: 380.60 mm/mes



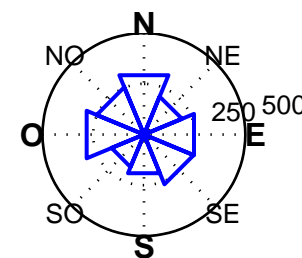
Magnitud: 62.00 (mm) Duración: 150 (min) Intensidad Media: 24.80 (mm/h)



Máxima: 3.10 Media: 0.69



Dirección del viento (Día)



Dirección del viento (Noche)



**Estación: Mundo Nuevo**  
**Fecha: Diciembre de 2011**  
**Registros: 29 de 31**

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Día	Temperatura (°C)			Vel. Viento (m/s)		Presión (mmHg)	Humedad (%)	Precipitación (mm)	Evap (mm)	Radiación solar (W/m²)	
	Máx	Media	Mín	Máx	Media	Media	Media	Total	Total	Máx	Media
1	23.20	19.31	16.70	1.30	0.74	667.76	84.63	0.60	0.00	551.00	188.17
2	24.40	19.78	16.80	2.20	0.76	668.60	81.60	3.20	0.00	1029.00	204.76
3	23.20	18.94	17.10	1.80	0.79	667.66	85.42	20.40	0.00	1204.00	174.35
4	22.80	18.50	16.40	2.20	0.72	667.36	86.03	73.00	0.00	366.00	129.81
5	23.30	18.70	16.90	3.10	0.99	672.79	85.88	19.80	0.00	353.00	172.41
6	22.00	18.17	16.60	1.30	0.66	667.24	88.68	27.60	0.00	322.00	114.92
7	22.60	18.28	16.90	1.80	0.84	667.08	88.51	13.20	0.00	729.00	152.84
8	22.80	18.44	15.90	1.80	0.61	666.94	86.53	24.80	0.00	593.00	185.04
9	24.70	19.83	16.80	1.30	0.60	667.54	80.97	1.00	0.00	544.00	206.37
10	24.30	20.34	17.40	2.20	0.64	668.35	79.02	0.00	0.00	567.00	172.30
11	24.90	19.80	16.90	1.80	0.81	668.15	81.24	1.60	0.00	964.00	246.01
12	22.00	18.68	16.70	1.30	0.58	667.68	86.25	27.80	0.00	639.00	165.57
13	24.00	19.41	16.60	0.90	0.55	667.50	85.33	18.80	0.00	911.00	209.32
14	21.10	18.54	16.80	1.80	0.74	667.58	87.60	24.00	0.00	500.00	172.14
15	21.40	18.41	16.90	1.30	0.70	667.12	88.02	37.00	0.00	375.00	162.97
16	20.80	18.13	17.10	1.30	0.67	667.09	89.23	21.40	0.00	359.00	125.15
17	23.20	19.40	16.90	1.30	0.58	667.36	85.63	0.20	0.00	617.00	159.31
18	22.80	19.21	17.40	2.20	0.76	667.93	86.83	12.00	0.00	809.00	144.14
19	20.60	18.42	17.10	1.80	0.67	667.32	88.82	28.80	0.00	251.00	119.74
20	24.10	20.15	17.10	1.30	0.58	667.56	82.78	4.60	0.00	916.00	228.57
21	26.10	21.02	17.40	1.80	0.61	668.57	78.95	0.00	0.00	975.00	254.33
22	23.60	19.63	17.80	1.80	0.74	668.75	81.73	0.00	0.00	459.00	164.55
23											
24											
25	20.60	20.33	19.70	1.30	0.63	668.87	82.29	0.00	0.00	0.00	
26	25.90	21.33	18.20	1.80	0.74	669.10	79.12	1.60	0.00	958.00	281.66
27	26.20	21.06	18.20	1.30	0.60	669.01	79.32	7.00	0.00	1021.00	243.74
28	26.30	20.99	18.10	1.30	0.56	668.90	79.47	0.20	0.00	770.00	219.33
29	25.10	20.88	18.00	1.80	0.72	668.87	79.10	0.40	0.00	437.00	183.93
30	23.60	20.36	18.20	2.20	0.71	668.58	82.52	11.60	0.00	486.00	177.49
31	26.60	21.50	17.60	1.30	0.61	668.53	74.78	0.00	0.00	703.00	255.86
TOTAL								380.60	0.00		
PROM	23.52	19.57	17.25	1.68	0.69	668.13	83.66			634.76	186.24

Cuadro 1: Resumen de análisis climatológico

**Estación: Mundo Nuevo**  
**Fecha: Diciembre de 2011**  
**Registros: 29 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	1	0	0	0	1	0.60	0.50	2.08	50.00	0.60	0.60	1.20
2	0	0	1	3	0	0	4	0	4	3.20	2.00	8.33	100.00	2.60	1.42	3.60
3	0	2	0	1	1	0	2	0	3	20.40	4.67	19.44	250.00	16.20	3.74	16.80
4	1	1	0	0	0	0	1	1	2	73.00	3.83	15.97	150.00	62.00	23.25	106.80
5	1	0	4	0	2	0	2	1	5	19.80	5.33	22.22	90.00	11.80	7.08	49.20
6	1	0	1	1	0	0	2	1	3	27.60	4.33	18.06	180.00	24.80	7.83	31.20
7	0	1	0	3	0	0	3	1	4	13.20	3.50	14.58	100.00	10.40	5.67	24.00
8	0	1	1	1	2	0	1	0	3	24.80	8.00	33.33	420.00	21.20	2.96	12.00
9	0	0	1	1	2	0	0	0	2	1.00	0.67	2.78	40.00	0.60	0.72	1.20
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	2	1	3	0	0	0	3	1.60	1.00	4.17	40.00	0.80	0.96	2.40
12	0	1	0	1	1	0	1	0	2	27.80	3.33	13.89	220.00	27.60	7.20	21.60
13	0	1	2	1	2	0	0	2	4	18.80	3.83	15.97	180.00	16.60	5.24	20.40
14	0	2	2	2	2	2	1	1	6	24.00	8.33	34.72	270.00	12.40	2.66	10.80
15	0	2	2	3	1	2	2	2	7	37.00	7.83	32.64	180.00	19.80	6.25	31.20
16	1	0	3	4	3	2	2	1	8	21.40	4.83	20.14	120.00	16.40	7.57	28.80
17	0	0	0	1	0	0	1	0	1	0.20	0.17	0.69	20.00	0.20	0.40	1.20
18	0	1	2	3	1	0	2	3	6	12.00	3.50	14.58	80.00	7.80	5.20	26.40
19	1	0	2	0	1	1	1	0	3	28.80	4.67	19.44	170.00	23.60	7.87	28.80
20	0	1	0	0	0	0	0	1	1	4.60	0.83	3.47	60.00	4.60	3.94	10.80
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																
24																
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	1	0	0	0	0	1	1	1.60	0.67	2.78	50.00	1.60	1.60	3.60
27	1	0	0	0	0	0	1	0	1	7.00	0.50	2.08	40.00	7.00	8.40	39.60
28	0	0	0	1	0	0	1	0	1	0.20	0.17	0.69	20.00	0.20	0.40	1.20
29	0	0	0	2	0	0	2	0	2	0.40	0.33	1.39	20.00	0.20	0.40	1.20
30	0	1	0	0	0	1	0	0	1	11.60	1.50	6.25	110.00	11.60	5.80	32.40
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	4	4	3	2	4	3	8	73.00	8.33	34.72	420.00	62.00	23.25	106.80
TOTAL	6	14	24	30	22	8	29	15	74	380.60	74.33	9.99				

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