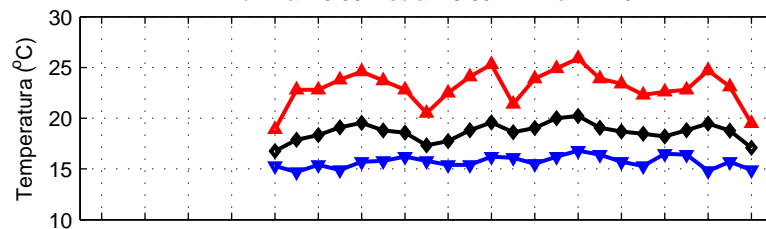


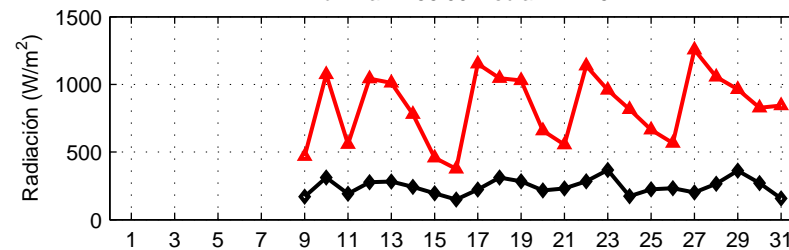
**Estación: Mundo Nuevo**  
**Fecha: Enero de 2008**  
**Registros: 23 de 31**

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>

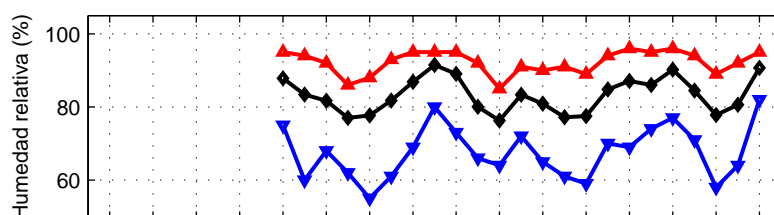
Máxima: 25.90 Media: 18.65 Mínima: 14.70



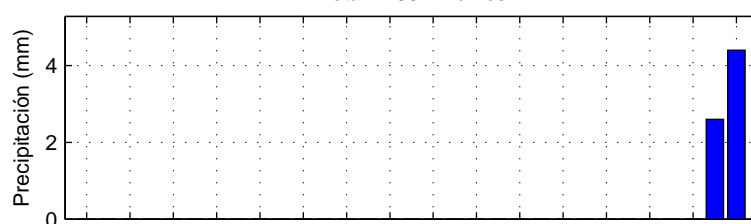
Máxima: 1256.00 Media: 244.16



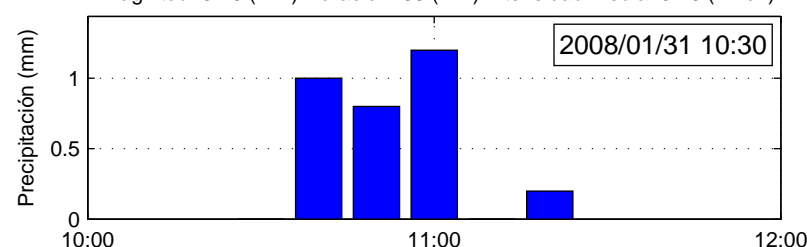
Máxima: 96.00 Media: 83.20 Mínima: 55.00



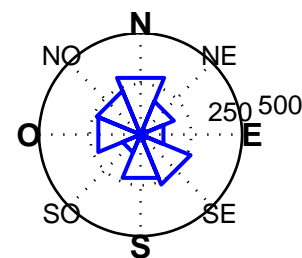
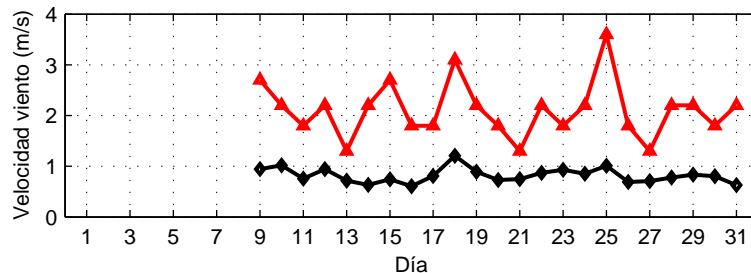
Total: 7.00 mm/mes



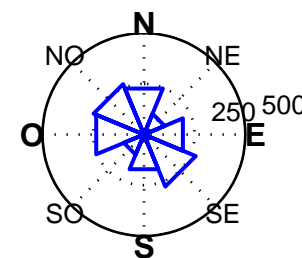
Magnitud: 3.20 (mm) Duración: 60 (min) Intensidad Media: 3.20 (mm/h)



Máxima: 3.60 Media: 0.82



Dirección del viento (Día)



Dirección del viento (Noche)



**Estación: Mundo Nuevo**  
**Fecha: Enero de 2008**  
**Registros: 23 de 31**

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/m²) |        |
|-------|------------------|-------|-------|-------------------|-------|----------------|-------------|--------------------|-----------|------------------------|--------|
|       | Máx              | Media | Mín   | Máx               | Media | Media          | Media       | Total              | Total     | Máx                    | Media  |
| 1     |                  |       |       |                   |       |                |             |                    |           |                        |        |
| 2     |                  |       |       |                   |       |                |             |                    |           |                        |        |
| 3     |                  |       |       |                   |       |                |             |                    |           |                        |        |
| 4     |                  |       |       |                   |       |                |             |                    |           |                        |        |
| 5     |                  |       |       |                   |       |                |             |                    |           |                        |        |
| 6     |                  |       |       |                   |       |                |             |                    |           |                        |        |
| 7     |                  |       |       |                   |       |                |             |                    |           |                        |        |
| 8     |                  |       |       |                   |       |                |             |                    |           |                        |        |
| 9     | 18.90            | 16.75 | 15.30 | 2.70              | 0.94  | 1010.89        | 87.85       | 0.00               | 0.00      | 469.00                 | 170.83 |
| 10    | 22.80            | 17.87 | 14.70 | 2.20              | 1.02  | 1010.90        | 83.37       | 0.00               | 0.00      | 1073.00                | 310.78 |
| 11    | 22.80            | 18.33 | 15.40 | 1.80              | 0.76  | 1009.29        | 81.70       | 0.00               | 0.00      | 557.00                 | 191.41 |
| 12    | 23.80            | 19.09 | 14.90 | 2.20              | 0.95  | 1007.77        | 77.02       | 0.00               | 0.00      | 1042.00                | 277.43 |
| 13    | 24.60            | 19.54 | 15.70 | 1.30              | 0.72  | 1007.55        | 77.69       | 0.00               | 0.00      | 1012.00                | 281.92 |
| 14    | 23.70            | 18.80 | 15.80 | 2.20              | 0.63  | 1008.23        | 81.75       | 0.00               | 0.00      | 780.00                 | 242.80 |
| 15    | 22.80            | 18.58 | 16.20 | 2.70              | 0.74  | 1008.18        | 86.85       | 0.00               | 0.00      | 457.00                 | 194.06 |
| 16    | 20.50            | 17.34 | 15.80 | 1.80              | 0.61  | 1009.33        | 91.46       | 0.00               | 0.00      | 375.00                 | 148.85 |
| 17    | 22.50            | 17.75 | 15.40 | 1.80              | 0.81  | 1009.85        | 89.04       | 0.00               | 0.00      | 1152.00                | 223.26 |
| 18    | 24.10            | 18.81 | 15.40 | 3.10              | 1.21  | 1009.05        | 80.06       | 0.00               | 0.00      | 1046.00                | 311.46 |
| 19    | 25.30            | 19.58 | 16.20 | 2.20              | 0.89  | 1008.11        | 76.27       | 0.00               | 0.00      | 1029.00                | 282.97 |
| 20    | 21.40            | 18.62 | 16.10 | 1.80              | 0.73  | 1009.33        | 83.31       | 0.00               | 0.00      | 658.00                 | 215.44 |
| 21    | 23.90            | 19.04 | 15.50 | 1.30              | 0.75  | 1009.88        | 80.90       | 0.00               | 0.00      | 555.00                 | 231.44 |
| 22    | 24.90            | 20.00 | 16.20 | 2.20              | 0.87  | 1008.06        | 77.20       | 0.00               | 0.00      | 1138.00                | 282.59 |
| 23    | 25.90            | 20.21 | 16.80 | 1.80              | 0.93  | 1006.80        | 77.52       | 0.00               | 0.00      | 959.00                 | 366.38 |
| 24    | 23.90            | 19.06 | 16.40 | 2.20              | 0.85  | 1007.36        | 84.78       | 0.00               | 0.00      | 815.00                 | 172.81 |
| 25    | 23.40            | 18.69 | 15.70 | 3.60              | 1.01  | 1009.47        | 87.10       | 0.00               | 0.00      | 664.00                 | 224.57 |
| 26    | 22.30            | 18.47 | 15.30 | 1.80              | 0.69  | 1010.29        | 86.01       | 0.00               | 0.00      | 566.00                 | 231.76 |
| 27    | 22.60            | 18.21 | 16.50 | 1.30              | 0.71  | 1009.81        | 90.21       | 0.00               | 0.00      | 1256.00                | 201.03 |
| 28    | 22.80            | 18.81 | 16.40 | 2.20              | 0.78  | 1009.24        | 84.47       | 0.00               | 0.00      | 1055.00                | 264.69 |
| 29    | 24.70            | 19.48 | 14.80 | 2.20              | 0.83  | 1009.00        | 77.83       | 0.00               | 0.00      | 964.00                 | 361.65 |
| 30    | 23.10            | 18.77 | 15.70 | 1.80              | 0.80  | 1009.40        | 80.61       | 2.60               | 0.00      | 827.00                 | 269.97 |
| 31    | 19.50            | 17.09 | 14.90 | 2.20              | 0.63  | 1011.30        | 90.66       | 4.40               | 0.00      | 844.00                 | 157.54 |
| TOTAL |                  |       |       |                   |       |                |             | 7.00               | 0.00      |                        |        |
| PROM  | 23.05            | 18.65 | 15.70 | 2.10              | 0.82  | 1009.09        | 83.20       |                    |           | 838.83                 | 244.16 |

Cuadro 1: Resumen de análisis climatológico

**Estación: Mundo Nuevo**  
**Fecha: Enero de 2008**  
**Registros: 23 de 31**

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     |                        |   |   |    |                     |    |   |   |     |         |      |      |          |         |            |            |
| 2     |                        |   |   |    |                     |    |   |   |     |         |      |      |          |         |            |            |
| 3     |                        |   |   |    |                     |    |   |   |     |         |      |      |          |         |            |            |
| 4     |                        |   |   |    |                     |    |   |   |     |         |      |      |          |         |            |            |
| 5     |                        |   |   |    |                     |    |   |   |     |         |      |      |          |         |            |            |
| 6     |                        |   |   |    |                     |    |   |   |     |         |      |      |          |         |            |            |
| 7     |                        |   |   |    |                     |    |   |   |     |         |      |      |          |         |            |            |
| 8     |                        |   |   |    |                     |    |   |   |     |         |      |      |          |         |            |            |
| 9     | 0                      | 0 | 0 | 0  | 0                   | 0  | 0 | 0 | 0   | 0.00    | 0.00 | 0.00 | 0.00     | 0.00    | 0.00       | 0.00       |
| 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 | 0 | 0  | 0                   | 0  | 0 | 0 | 0   | 0.00    | 0.00 | 0.00 | 0.00     | 0.00    | 0.00       | 0.00       |
| 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 | 0 | 0  | 0                   | 0  | 0 | 0 | 0   | 0.00    | 0.00 | 0.00 | 0.00     | 0.00    | 0.00       | 0.00       |
| 18    | 0                      | 0 | 0 | 0  | 0                   | 0  | 0 | 0 | 0   | 0.00    | 0.00 | 0.00 | 0.00     | 0.00    | 0.00       | 0.00       |
| 19    | 0                      | 0 | 0 | 0  | 0                   | 0  | 0 | 0 | 0   | 0.00    | 0.00 | 0.00 | 0.00     | 0.00    | 0.00       | 0.00       |
| 20    | 0                      | 0 | 0 | 0  | 0                   | 0  | 0 | 0 | 0   | 0.00    | 0.00 | 0.00 | 0.00     | 0.00    | 0.00       | 0.00       |
| 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 | 0 | 0  | 0                   | 0  | 0 | 0 | 0   | 0.00    | 0.00 | 0.00 | 0.00     | 0.00    | 0.00       | 0.00       |
| 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    | 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                      | 1 | 0 | 0  | 0                   | 0  | 0 | 1 | 1   | 2.60    | 0.67 | 2.78 | 50.00    | 2.60    | 2.60       | 7.20       |
| 31    | 0                      | 1 | 0 | 3  | 0                   | 2  | 2 | 0 | 4   | 4.40    | 1.67 | 6.94 | 60.00    | 3.20    | 2.74       | 7.20       |
| MAX   | 0                      | 1 | 0 | 3  | 0                   | 2  | 2 | 1 | 4   | 4.40    | 1.67 | 6.94 | 60.00    | 3.20    | 2.74       | 7.20       |
| TOTAL | 0                      | 2 | 0 | 3  | 0                   | 2  | 2 | 1 | 5   | 7.00    | 2.33 | 0.31 |          |         |            |            |

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