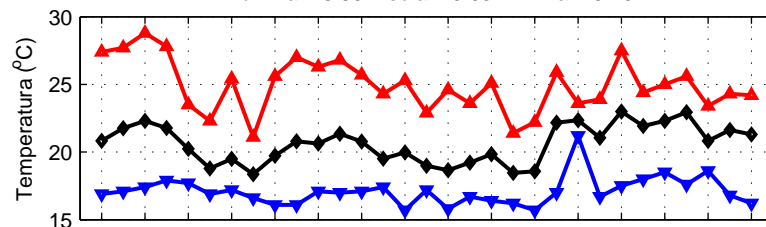


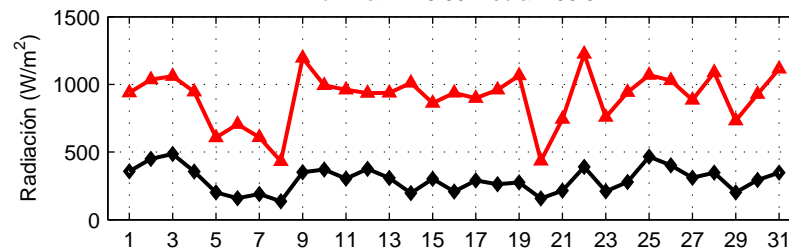
Estación: Mundo Nuevo
Fecha: Agosto de 2009
Registros: 31 de 31

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>

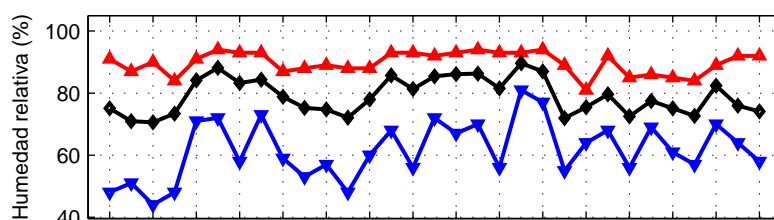
Máxima: 28.80 Media: 20.63 Mínima: 15.70



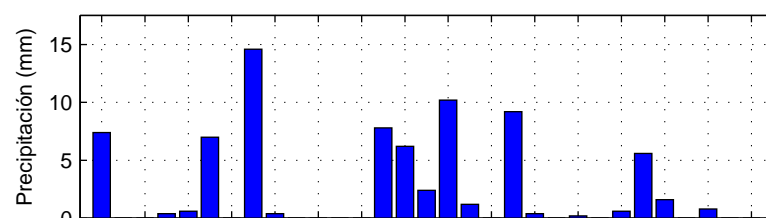
Máxima: 1225.00 Media: 296.37



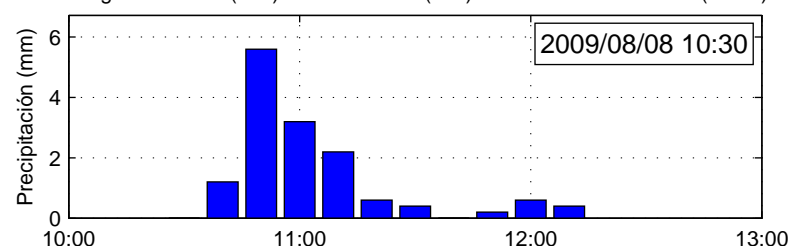
Máxima: 94.00 Media: 79.00 Mínima: 44.00



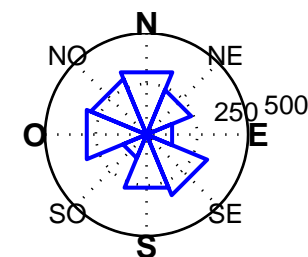
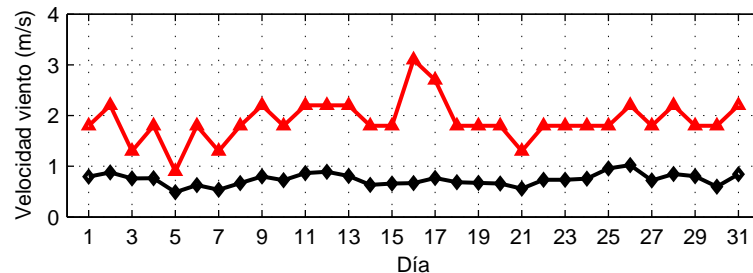
Total: 76.60 mm/mes



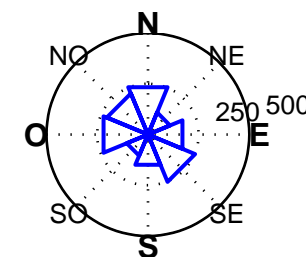
Magnitud: 14.40 (mm) Duración: 110 (min) Intensidad Media: 7.85 (mm/h)



Máxima: 3.10 Media: 0.74



Dirección del viento (Día)



Dirección del viento (Noche)



Estación: Mundo Nuevo
Fecha: Agosto 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 ²) | |
|-------|------------------|-------|-------|-------------------|-------|----------------|-------------|--------------------|-----------|-------------------------------------|--------|
| | Máx | Media | Mín | Máx | Media | Media | Media | Total | Total | Máx | Media |
| 1 | 27.40 | 20.83 | 16.90 | 1.80 | 0.79 | 750.84 | 75.12 | 7.40 | 0.00 | 939.00 | 356.71 |
| 2 | 27.70 | 21.75 | 17.10 | 2.20 | 0.88 | 692.67 | 70.97 | 0.00 | 0.00 | 1036.00 | 449.34 |
| 3 | 28.80 | 22.31 | 17.40 | 1.30 | 0.76 | 765.95 | 70.58 | 0.00 | 0.00 | 1060.00 | 484.80 |
| 4 | 27.80 | 21.77 | 17.90 | 1.80 | 0.77 | 762.50 | 73.40 | 0.40 | 0.00 | 945.00 | 356.10 |
| 5 | 23.50 | 20.24 | 17.70 | 0.90 | 0.49 | 774.79 | 84.15 | 0.60 | 0.00 | 607.00 | 200.82 |
| 6 | 22.30 | 18.79 | 16.90 | 1.80 | 0.63 | 714.62 | 88.15 | 7.00 | 0.00 | 705.00 | 159.32 |
| 7 | 25.40 | 19.50 | 17.20 | 1.30 | 0.54 | 662.88 | 83.26 | 0.00 | 0.00 | 608.00 | 190.43 |
| 8 | 21.10 | 18.36 | 16.60 | 1.80 | 0.67 | 608.57 | 84.37 | 14.60 | 0.00 | 431.00 | 135.58 |
| 9 | 25.60 | 19.72 | 16.10 | 2.20 | 0.80 | 642.22 | 78.82 | 0.40 | 0.00 | 1195.00 | 351.16 |
| 10 | 27.00 | 20.79 | 16.10 | 1.80 | 0.73 | 720.93 | 75.21 | 0.00 | 0.00 | 993.00 | 370.51 |
| 11 | 26.30 | 20.63 | 17.10 | 2.20 | 0.86 | 773.87 | 74.72 | 0.00 | 0.00 | 961.00 | 302.41 |
| 12 | 26.80 | 21.35 | 17.00 | 2.20 | 0.89 | 784.35 | 72.08 | 0.00 | 0.00 | 936.00 | 375.68 |
| 13 | 25.70 | 20.77 | 17.10 | 2.20 | 0.81 | 777.68 | 77.94 | 0.00 | 0.00 | 937.00 | 307.71 |
| 14 | 24.30 | 19.50 | 17.40 | 1.80 | 0.63 | 749.76 | 85.73 | 7.80 | 0.00 | 1012.00 | 196.63 |
| 15 | 25.30 | 19.98 | 15.70 | 1.80 | 0.66 | 776.49 | 81.33 | 6.20 | 0.00 | 861.00 | 300.74 |
| 16 | 22.90 | 18.98 | 17.20 | 3.10 | 0.67 | 756.51 | 85.43 | 2.40 | 0.00 | 937.00 | 207.25 |
| 17 | 24.60 | 18.66 | 15.80 | 2.70 | 0.77 | 746.29 | 86.13 | 10.20 | 0.00 | 898.00 | 290.00 |
| 18 | 23.60 | 19.21 | 16.70 | 1.80 | 0.69 | 744.42 | 86.30 | 1.20 | 0.00 | 961.00 | 261.48 |
| 19 | 25.10 | 19.84 | 16.40 | 1.80 | 0.67 | 750.45 | 81.51 | 0.00 | 0.00 | 1065.00 | 275.58 |
| 20 | 21.40 | 18.47 | 16.20 | 1.80 | 0.66 | 768.68 | 89.60 | 9.20 | 0.00 | 435.00 | 157.08 |
| 21 | 22.20 | 18.58 | 15.70 | 1.30 | 0.56 | 733.58 | 86.99 | 0.40 | 0.00 | 743.00 | 214.14 |
| 22 | 25.90 | 22.18 | 17.00 | 1.80 | 0.73 | 772.89 | 71.96 | 0.00 | 0.00 | 1225.00 | 389.94 |
| 23 | 23.60 | 22.35 | 21.20 | 1.80 | 0.73 | 762.24 | 75.42 | 0.20 | 0.00 | 758.00 | 208.84 |
| 24 | 23.90 | 21.06 | 16.70 | 1.80 | 0.76 | 790.93 | 79.63 | 0.00 | 0.00 | 943.00 | 279.27 |
| 25 | 27.50 | 22.99 | 17.50 | 1.80 | 0.96 | 766.19 | 72.53 | 0.60 | 0.00 | 1068.00 | 466.44 |
| 26 | 24.40 | 21.93 | 18.00 | 2.20 | 1.02 | 783.65 | 77.49 | 5.60 | 0.00 | 1030.00 | 401.54 |
| 27 | 25.00 | 22.31 | 18.50 | 1.80 | 0.72 | 683.88 | 75.11 | 1.60 | 0.00 | 884.00 | 309.33 |
| 28 | 25.60 | 22.94 | 17.60 | 2.20 | 0.85 | 773.86 | 72.68 | 0.00 | 0.00 | 1089.00 | 347.35 |
| 29 | 23.40 | 20.82 | 18.60 | 1.80 | 0.81 | 782.93 | 82.38 | 0.80 | 0.00 | 732.00 | 200.77 |
| 30 | 24.30 | 21.62 | 16.80 | 1.80 | 0.60 | 750.16 | 75.98 | 0.00 | 0.00 | 928.00 | 292.57 |
| 31 | 24.20 | 21.31 | 16.20 | 2.20 | 0.84 | 775.01 | 74.12 | 0.00 | 0.00 | 1114.00 | 347.87 |
| TOTAL | | | | | | | | 76.60 | 0.00 | | |
| PROM | 24.92 | 20.63 | 17.11 | 1.90 | 0.74 | 745.16 | 79.00 | | | 904.39 | 296.37 |

Cuadro 1: Resumen de análisis climatológico

Estación: Mundo Nuevo
Fecha: Agosto de 2009
Registros: 31 de 31

Red Hidroclimatológica del Departamento de Risaralda
 Revisó: Adm. Ambiental Victor Manuel Bermúdez Marín. Operador REDH
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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 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 7.40 | 0.33 | 1.39 | 30.00 | 7.40 | 11.10 | 36.00 |
| 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 | 1 | 0 | 0 | 1 | 0 | 1 | 0.40 | 0.33 | 1.39 | 30.00 | 0.40 | 0.60 | 1.20 |
| 5 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 2 | 0.60 | 0.50 | 2.08 | 30.00 | 0.40 | 0.60 | 1.20 |
| 6 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 3 | 7.00 | 1.50 | 6.25 | 70.00 | 5.20 | 3.90 | 20.40 |
| 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 8 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 2 | 14.60 | 1.67 | 6.94 | 110.00 | 14.40 | 7.20 | 33.60 |
| 9 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0.40 | 0.17 | 0.69 | 20.00 | 0.40 | 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 | 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 | 1 | 0 | 0 | 1 | 0 | 0 | 2 | 0 | 2 | 7.80 | 0.83 | 3.47 | 50.00 | 7.60 | 7.60 | 24.00 |
| 15 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 2 | 6.20 | 1.00 | 4.17 | 60.00 | 6.00 | 5.14 | 27.60 |
| 16 | 0 | 0 | 2 | 2 | 0 | 0 | 3 | 1 | 4 | 2.40 | 1.17 | 4.86 | 40.00 | 1.00 | 1.20 | 3.60 |
| 17 | 1 | 0 | 2 | 0 | 0 | 0 | 3 | 0 | 3 | 10.20 | 1.83 | 7.64 | 40.00 | 7.00 | 8.40 | 28.80 |
| 18 | 0 | 0 | 1 | 1 | 0 | 0 | 2 | 0 | 2 | 1.20 | 0.67 | 2.78 | 40.00 | 1.00 | 1.20 | 2.40 |
| 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 | 1 | 2 | 1 | 0 | 1 | 2 | 1 | 4 | 9.20 | 2.50 | 10.42 | 80.00 | 6.20 | 4.13 | 16.80 |
| 21 | 0 | 0 | 0 | 2 | 0 | 0 | 1 | 1 | 2 | 0.40 | 0.33 | 1.39 | 20.00 | 0.20 | 0.40 | 1.20 |
| 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 | 1 | 0 | 0 | 1 | 0 | 1 | 0.20 | 0.17 | 0.69 | 20.00 | 0.20 | 0.40 | 1.20 |
| 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 | 0 | 0 | 0 | 1 | 0 | 1 | 0.60 | 0.17 | 0.69 | 20.00 | 0.60 | 1.20 | 3.60 |
| 26 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 5.60 | 0.33 | 1.39 | 30.00 | 5.60 | 8.40 | 26.40 |
| 27 | 0 | 1 | 0 | 1 | 0 | 0 | 2 | 0 | 2 | 1.60 | 0.50 | 2.08 | 30.00 | 1.40 | 2.10 | 6.00 |
| 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 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0.80 | 0.50 | 2.08 | 40.00 | 0.80 | 0.96 | 2.40 |
| 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 | 1 | 2 | 2 | 1 | 1 | 3 | 1 | 4 | 14.60 | 2.50 | 10.42 | 110.00 | 14.40 | 11.10 | 36.00 |
| TOTAL | 5 | 4 | 11 | 15 | 3 | 4 | 25 | 3 | 35 | 76.60 | 14.50 | 1.95 | | | | |

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