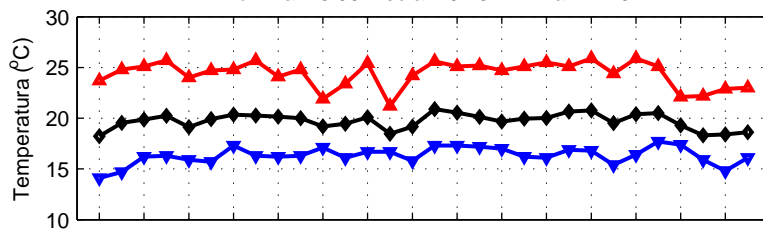


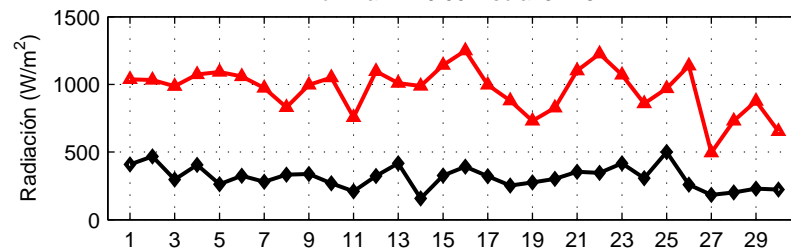
Estación: Mundo Nuevo
Fecha: Junio de 2013
Registros: 30 de 30

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>

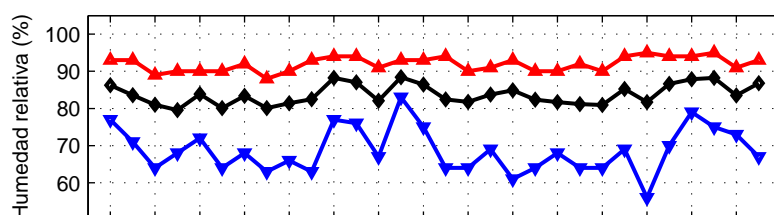
Máxima: 25.90 Media: 19.73 Mínima: 14.10



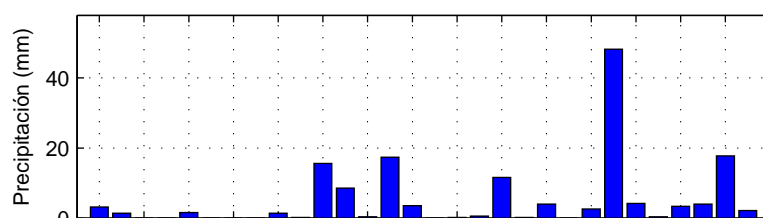
Máxima: 1249.00 Media: 312.52



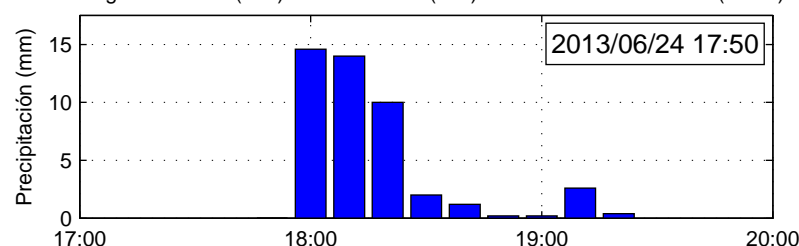
Máxima: 95.00 Media: 83.75 Mínima: 56.00



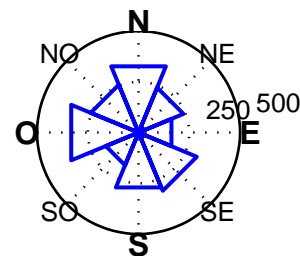
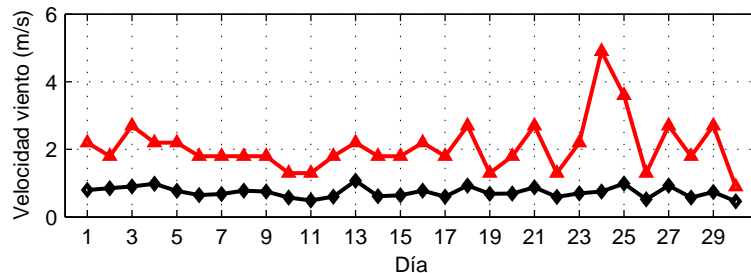
Total: 152.80 mm/mes



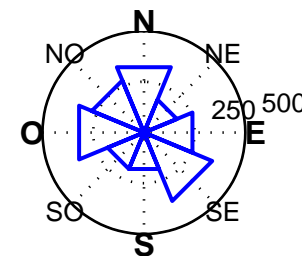
Magnitud: 45.20 (mm) Duración: 100 (min) Intensidad Media: 27.12 (mm/h)



Máxima: 4.90 Media: 0.73



Dirección del viento (Día)



Dirección del viento (Noche)



Estación: Mundo Nuevo
Fecha: Junio de 2013
Registros: 30 de 30

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

| 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 | 23.70 | 18.22 | 14.10 | 2.20 | 0.80 | 749.05 | 86.23 | 3.20 | 3.11 | 1038.00 | 408.57 |
| 2 | 24.80 | 19.54 | 14.70 | 1.80 | 0.85 | 751.94 | 83.55 | 1.40 | 3.59 | 1032.00 | 467.91 |
| 3 | 25.10 | 19.87 | 16.20 | 2.70 | 0.91 | 759.96 | 81.00 | 0.00 | 2.58 | 987.00 | 296.60 |
| 4 | 25.70 | 20.25 | 16.30 | 2.20 | 0.99 | 763.25 | 79.54 | 0.00 | 3.46 | 1073.00 | 405.73 |
| 5 | 24.00 | 19.12 | 15.90 | 2.20 | 0.77 | 764.59 | 83.88 | 1.60 | 2.21 | 1091.00 | 261.34 |
| 6 | 24.70 | 19.92 | 15.70 | 1.80 | 0.65 | 760.74 | 80.06 | 0.00 | 2.77 | 1059.00 | 324.67 |
| 7 | 24.80 | 20.36 | 17.30 | 1.80 | 0.68 | 758.28 | 83.39 | 0.00 | 2.37 | 973.00 | 280.82 |
| 8 | 25.70 | 20.26 | 16.30 | 1.80 | 0.78 | 761.94 | 80.10 | 0.00 | 2.84 | 830.00 | 333.05 |
| 9 | 24.10 | 20.15 | 16.20 | 1.80 | 0.75 | 761.99 | 81.40 | 1.40 | 2.85 | 996.00 | 337.56 |
| 10 | 24.80 | 20.01 | 16.30 | 1.30 | 0.57 | 762.45 | 82.49 | 0.20 | 2.31 | 1050.00 | 268.79 |
| 11 | 21.90 | 19.19 | 17.10 | 1.30 | 0.49 | 754.86 | 88.21 | 15.60 | 1.58 | 756.00 | 208.94 |
| 12 | 23.40 | 19.46 | 16.10 | 1.80 | 0.60 | 761.44 | 87.00 | 8.60 | 2.34 | 1096.00 | 322.86 |
| 13 | 25.40 | 20.09 | 16.70 | 2.20 | 1.08 | 761.89 | 82.04 | 0.40 | 3.25 | 1010.00 | 416.25 |
| 14 | 21.20 | 18.46 | 16.70 | 1.80 | 0.62 | 763.84 | 88.39 | 17.40 | 1.31 | 988.00 | 156.92 |
| 15 | 24.20 | 19.18 | 15.80 | 1.80 | 0.64 | 759.89 | 86.43 | 3.60 | 2.53 | 1143.00 | 326.32 |
| 16 | 25.60 | 20.91 | 17.30 | 2.20 | 0.78 | 761.16 | 82.43 | 0.00 | 3.12 | 1249.00 | 391.05 |
| 17 | 25.10 | 20.54 | 17.30 | 1.80 | 0.60 | 739.19 | 81.76 | 0.20 | 2.68 | 997.00 | 321.11 |
| 18 | 25.20 | 20.13 | 17.20 | 2.70 | 0.93 | 761.08 | 83.74 | 0.60 | 2.17 | 879.00 | 252.18 |
| 19 | 24.70 | 19.67 | 17.00 | 1.30 | 0.69 | 760.97 | 84.85 | 11.60 | 2.09 | 730.00 | 275.83 |
| 20 | 25.10 | 19.96 | 16.20 | 1.80 | 0.69 | 749.92 | 82.35 | 0.20 | 2.57 | 828.00 | 300.73 |
| 21 | 25.50 | 20.02 | 16.10 | 2.70 | 0.88 | 753.62 | 81.73 | 4.00 | 3.02 | 1101.00 | 353.97 |
| 22 | 25.10 | 20.65 | 16.90 | 1.30 | 0.59 | 737.66 | 81.15 | 0.00 | 2.84 | 1226.00 | 346.48 |
| 23 | 25.90 | 20.78 | 16.80 | 2.20 | 0.70 | 736.35 | 80.91 | 2.60 | 3.33 | 1071.00 | 416.04 |
| 24 | 24.40 | 19.52 | 15.40 | 4.90 | 0.75 | 715.30 | 85.24 | 48.20 | 2.40 | 858.00 | 306.30 |
| 25 | 25.90 | 20.40 | 16.40 | 3.60 | 0.99 | 756.06 | 81.73 | 4.20 | 3.90 | 970.00 | 499.80 |
| 26 | 25.10 | 20.51 | 17.70 | 1.30 | 0.52 | 730.79 | 86.60 | 0.40 | 2.03 | 1137.00 | 258.55 |
| 27 | 22.10 | 19.31 | 17.40 | 2.70 | 0.93 | 763.58 | 87.88 | 3.40 | 1.44 | 496.00 | 183.56 |
| 28 | 22.20 | 18.32 | 15.90 | 1.80 | 0.58 | 727.41 | 88.24 | 4.00 | 1.40 | 730.00 | 200.93 |
| 29 | 22.90 | 18.40 | 14.80 | 2.70 | 0.74 | 739.78 | 83.52 | 17.80 | 1.86 | 877.00 | 229.65 |
| 30 | 23.00 | 18.62 | 16.10 | 0.90 | 0.47 | 749.47 | 86.76 | 2.20 | 1.64 | 653.00 | 223.07 |
| TOTAL | | | | | | | | 152.80 | 75.59 | | |
| PROM | 24.38 | 19.73 | 16.33 | 2.08 | 0.73 | 752.62 | 83.75 | | | 964.13 | 312.52 |

Cuadro 1: Resumen de análisis climatológico

Estación: Mundo Nuevo
Fecha: Junio de 2013
Registros: 30 de 30

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

| 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 | 2 | 1 | 0 | 0 | 1 | 2 | 3 | 3.20 | 1.67 | 6.94 | 50.00 | 1.40 | 1.40 | 3.60 |
| 2 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 1.40 | 0.83 | 3.47 | 70.00 | 1.40 | 1.05 | 3.60 |
| 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 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 1.60 | 0.83 | 3.47 | 70.00 | 1.60 | 1.20 | 3.60 |
| 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 9 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1.40 | 0.67 | 2.78 | 50.00 | 1.40 | 1.40 | 3.60 |
| 10 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0.20 | 0.17 | 0.69 | 20.00 | 0.20 | 0.40 | 1.20 |
| 11 | 1 | 0 | 1 | 3 | 1 | 1 | 3 | 0 | 5 | 15.60 | 2.17 | 9.03 | 60.00 | 12.80 | 10.97 | 42.00 |
| 12 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 8.60 | 4.00 | 16.67 | 280.00 | 8.60 | 1.78 | 4.80 |
| 13 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 2 | 0.40 | 0.33 | 1.39 | 20.00 | 0.20 | 0.40 | 1.20 |
| 14 | 1 | 1 | 2 | 0 | 0 | 3 | 1 | 0 | 4 | 17.40 | 2.50 | 10.42 | 40.00 | 10.20 | 12.24 | 33.60 |
| 15 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 3.60 | 0.67 | 2.78 | 50.00 | 3.60 | 3.60 | 9.60 |
| 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 | 1 | 0 | 0 | 1 | 0 | 1 | 0.20 | 0.17 | 0.69 | 20.00 | 0.20 | 0.40 | 1.20 |
| 18 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0.60 | 0.50 | 2.08 | 60.00 | 0.60 | 0.51 | 1.20 |
| 19 | 0 | 2 | 0 | 1 | 2 | 0 | 0 | 1 | 3 | 11.60 | 1.83 | 7.64 | 80.00 | 7.60 | 5.07 | 12.00 |
| 20 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0.20 | 0.17 | 0.69 | 20.00 | 0.20 | 0.40 | 1.20 |
| 21 | 0 | 1 | 0 | 1 | 0 | 0 | 2 | 0 | 2 | 4.00 | 1.33 | 5.56 | 90.00 | 3.80 | 2.28 | 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 | 0 | 0 | 2 | 2 | 0 | 0 | 3 | 1 | 4 | 2.60 | 1.00 | 4.17 | 30.00 | 1.20 | 1.80 | 6.00 |
| 24 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 3 | 48.20 | 2.33 | 9.72 | 100.00 | 45.20 | 24.65 | 87.60 |
| 25 | 0 | 1 | 0 | 3 | 3 | 1 | 0 | 0 | 4 | 4.20 | 1.33 | 5.56 | 60.00 | 3.60 | 3.09 | 12.00 |
| 26 | 0 | 0 | 0 | 2 | 1 | 1 | 0 | 0 | 2 | 0.40 | 0.33 | 1.39 | 20.00 | 0.20 | 0.40 | 1.20 |
| 27 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 2 | 3.40 | 1.00 | 4.17 | 60.00 | 3.00 | 2.57 | 4.80 |
| 28 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 2 | 4.00 | 1.83 | 7.64 | 120.00 | 3.60 | 1.66 | 6.00 |
| 29 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 17.80 | 1.17 | 4.86 | 80.00 | 17.80 | 11.87 | 48.00 |
| 30 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 2 | 2.20 | 0.83 | 3.47 | 60.00 | 2.00 | 1.71 | 8.40 |
| MAX | 1 | 2 | 2 | 3 | 3 | 3 | 3 | 2 | 5 | 48.20 | 4.00 | 16.67 | 280.00 | 45.20 | 24.65 | 87.60 |
| TOTAL | 4 | 8 | 15 | 21 | 12 | 9 | 20 | 7 | 48 | 152.80 | 27.67 | 3.84 | | | | |

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