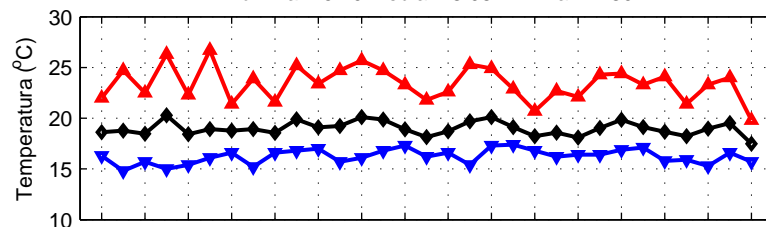


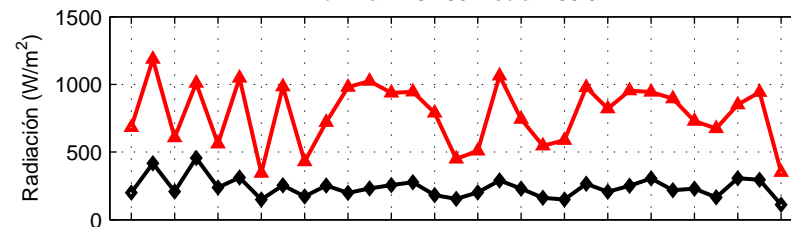
Estación: Acuaseo
Fecha: Mayo de 2013
Registros: 31 de 31

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>

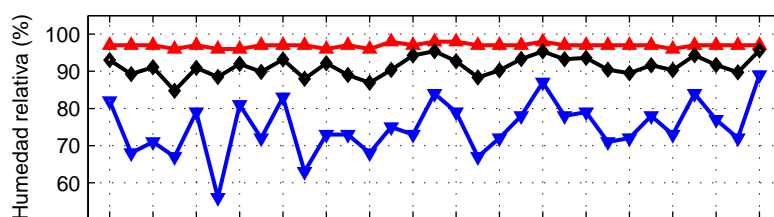
Máxima: 26.70 Media: 18.98 Mínima: 14.80



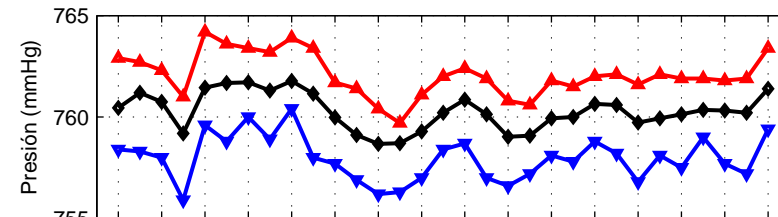
Máxima: 1187.00 Media: 236.57



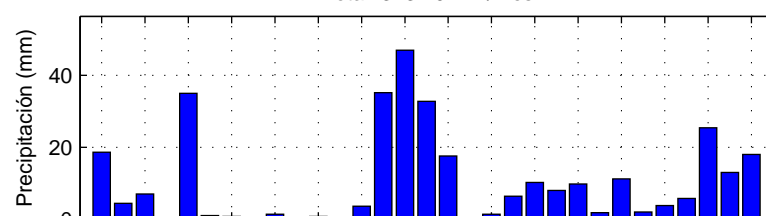
Máxima: 98.00 Media: 91.25 Mínima: 56.00



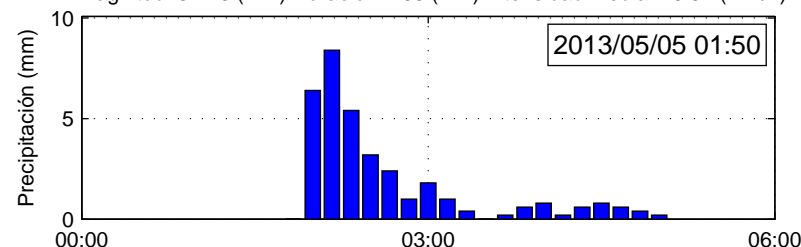
Máxima: 764.20 Media: 760.29 Mínima: 755.90



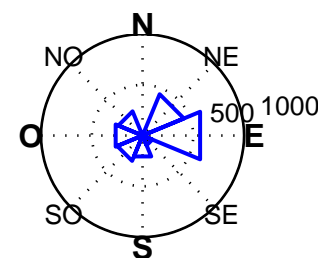
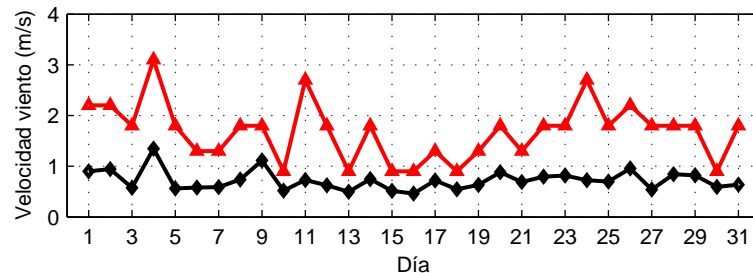
Total: 323.40 mm/mes



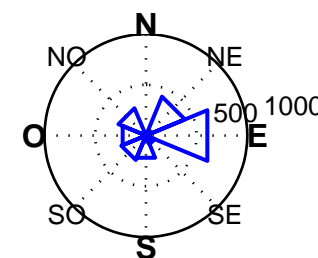
Magnitud: 34.40 (mm) Duración: 200 (min) Intensidad Media: 10.32 (mm/h)



Máxima: 3.10 Media: 0.72



Dirección del viento (Día)



Dirección del viento (Noche)



Estación: Acuaseo
Fecha: Mayo de 2013
Registros: 31 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: 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 | 22.00 | 18.61 | 16.30 | 2.20 | 0.90 | 760.45 | 93.03 | 18.60 | 1.38 | 682.00 | 198.91 |
| 2 | 24.70 | 18.78 | 14.80 | 2.20 | 0.94 | 761.19 | 89.22 | 4.40 | 3.10 | 1187.00 | 417.29 |
| 3 | 22.50 | 18.46 | 15.70 | 1.80 | 0.58 | 760.74 | 91.09 | 7.00 | 1.51 | 607.00 | 207.41 |
| 4 | 26.30 | 20.29 | 15.00 | 3.10 | 1.35 | 759.19 | 84.76 | 0.20 | 3.68 | 1009.00 | 456.25 |
| 5 | 22.30 | 18.42 | 15.40 | 1.80 | 0.56 | 761.45 | 90.94 | 35.00 | 1.73 | 561.00 | 238.08 |
| 6 | 26.70 | 18.93 | 16.10 | 1.30 | 0.58 | 761.68 | 88.44 | 1.00 | 2.28 | 1047.00 | 311.20 |
| 7 | 21.40 | 18.78 | 16.60 | 1.30 | 0.59 | 761.71 | 92.02 | 0.80 | 1.03 | 345.00 | 148.83 |
| 8 | 23.90 | 18.92 | 15.20 | 1.80 | 0.74 | 761.30 | 89.83 | 0.60 | 1.85 | 983.00 | 253.88 |
| 9 | 21.60 | 18.56 | 16.60 | 1.80 | 1.11 | 761.78 | 93.20 | 1.40 | 1.29 | 430.00 | 171.89 |
| 10 | 25.20 | 19.89 | 16.80 | 0.90 | 0.52 | 761.15 | 87.97 | 0.20 | 1.98 | 721.00 | 251.85 |
| 11 | 23.40 | 19.09 | 17.00 | 2.70 | 0.73 | 759.98 | 92.19 | 0.80 | 1.48 | 980.00 | 198.66 |
| 12 | 24.70 | 19.24 | 15.70 | 1.80 | 0.62 | 759.11 | 88.99 | 0.20 | 1.80 | 1024.00 | 231.03 |
| 13 | 25.70 | 20.12 | 16.10 | 0.90 | 0.50 | 758.67 | 86.90 | 3.60 | 1.91 | 937.00 | 256.15 |
| 14 | 24.70 | 19.87 | 16.80 | 1.80 | 0.75 | 758.70 | 90.38 | 35.20 | 2.06 | 945.00 | 277.16 |
| 15 | 23.30 | 18.91 | 17.30 | 0.90 | 0.52 | 759.29 | 94.24 | 47.00 | 1.18 | 790.00 | 181.71 |
| 16 | 21.80 | 18.14 | 16.20 | 0.90 | 0.46 | 760.21 | 95.38 | 32.80 | 1.09 | 450.00 | 153.32 |
| 17 | 22.60 | 18.71 | 16.60 | 1.30 | 0.72 | 760.85 | 92.73 | 17.60 | 1.38 | 509.00 | 201.33 |
| 18 | 25.30 | 19.70 | 15.40 | 0.90 | 0.55 | 760.13 | 88.35 | 0.20 | 2.15 | 1063.00 | 289.30 |
| 19 | 24.90 | 20.12 | 17.30 | 1.30 | 0.63 | 759.02 | 90.26 | 1.40 | 1.74 | 743.00 | 229.00 |
| 20 | 22.90 | 19.13 | 17.40 | 1.80 | 0.88 | 759.08 | 93.32 | 6.40 | 1.23 | 547.00 | 161.23 |
| 21 | 20.70 | 18.22 | 16.80 | 1.30 | 0.69 | 759.93 | 95.32 | 10.20 | 1.08 | 587.00 | 148.10 |
| 22 | 22.70 | 18.57 | 16.20 | 1.80 | 0.79 | 760.00 | 93.24 | 8.00 | 1.89 | 978.00 | 265.50 |
| 23 | 22.10 | 18.09 | 16.40 | 1.80 | 0.82 | 760.64 | 93.58 | 9.80 | 1.44 | 821.00 | 206.88 |
| 24 | 24.30 | 19.04 | 16.40 | 2.70 | 0.73 | 760.59 | 90.45 | 1.80 | 1.90 | 954.00 | 250.00 |
| 25 | 24.40 | 19.85 | 16.90 | 1.80 | 0.70 | 759.73 | 89.51 | 11.20 | 2.30 | 944.00 | 304.49 |
| 26 | 23.30 | 19.12 | 17.10 | 2.20 | 0.96 | 759.93 | 91.60 | 2.00 | 1.71 | 894.00 | 217.16 |
| 27 | 24.10 | 18.66 | 15.80 | 1.80 | 0.54 | 760.13 | 90.30 | 3.80 | 1.70 | 729.00 | 228.53 |
| 28 | 21.40 | 18.22 | 15.90 | 1.80 | 0.84 | 760.35 | 94.35 | 5.80 | 1.13 | 675.00 | 165.08 |
| 29 | 23.30 | 18.96 | 15.30 | 1.80 | 0.82 | 760.31 | 91.69 | 25.40 | 2.15 | 850.00 | 306.99 |
| 30 | 24.00 | 19.52 | 16.60 | 0.90 | 0.59 | 760.20 | 89.75 | 13.00 | 2.15 | 943.00 | 295.05 |
| 31 | 19.80 | 17.48 | 15.70 | 1.80 | 0.64 | 761.39 | 95.63 | 18.00 | 0.72 | 350.00 | 111.54 |
| TOTAL | | | | | | | | 323.40 | 54.02 | | |
| PROM | 23.42 | 18.98 | 16.24 | 1.68 | 0.72 | 760.29 | 91.25 | | | 783.39 | 236.57 |

Cuadro 1: Resumen de análisis climatológico

Estación: Acuaseo
Fecha: Mayo de 2013
Registros: 31 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: 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 | 1 | 2 | 1 | 1 | 0 | 1 | 2 | 4 | 18.60 | 5.00 | 20.83 | 200.00 | 13.60 | 3.89 | 31.20 |
| 2 | 0 | 0 | 1 | 3 | 1 | 0 | 1 | 2 | 4 | 4.40 | 2.50 | 10.42 | 150.00 | 3.80 | 1.43 | 4.80 |
| 3 | 0 | 1 | 0 | 1 | 2 | 0 | 0 | 0 | 2 | 7.00 | 2.00 | 8.33 | 120.00 | 6.60 | 3.05 | 9.60 |
| 4 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0.20 | 0.17 | 0.69 | 20.00 | 0.20 | 0.40 | 1.20 |
| 5 | 1 | 0 | 0 | 2 | 2 | 1 | 0 | 0 | 3 | 35.00 | 3.50 | 14.58 | 200.00 | 34.40 | 9.83 | 50.40 |
| 6 | 0 | 0 | 0 | 3 | 0 | 0 | 3 | 0 | 3 | 1.00 | 0.83 | 3.47 | 40.00 | 0.60 | 0.72 | 1.20 |
| 7 | 0 | 0 | 0 | 4 | 0 | 1 | 1 | 2 | 4 | 0.80 | 0.67 | 2.78 | 20.00 | 0.20 | 0.40 | 1.20 |
| 8 | 0 | 0 | 0 | 2 | 1 | 0 | 1 | 0 | 2 | 0.60 | 0.50 | 2.08 | 30.00 | 0.40 | 0.60 | 1.20 |
| 9 | 0 | 0 | 1 | 3 | 0 | 1 | 2 | 1 | 4 | 1.40 | 0.83 | 3.47 | 20.00 | 0.60 | 1.20 | 3.60 |
| 10 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0.20 | 0.17 | 0.69 | 20.00 | 0.20 | 0.40 | 1.20 |
| 11 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0.80 | 0.50 | 2.08 | 40.00 | 0.80 | 0.96 | 2.40 |
| 12 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0.20 | 0.17 | 0.69 | 20.00 | 0.20 | 0.40 | 1.20 |
| 13 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 3.60 | 0.67 | 2.78 | 50.00 | 3.60 | 3.60 | 13.20 |
| 14 | 1 | 1 | 2 | 3 | 5 | 0 | 1 | 1 | 7 | 35.20 | 3.00 | 12.50 | 100.00 | 31.20 | 17.02 | 40.80 |
| 15 | 2 | 1 | 0 | 3 | 2 | 1 | 2 | 1 | 6 | 47.00 | 5.00 | 20.83 | 110.00 | 23.60 | 11.80 | 22.80 |
| 16 | 1 | 1 | 4 | 7 | 5 | 2 | 3 | 3 | 13 | 32.80 | 6.50 | 27.08 | 60.00 | 20.40 | 17.49 | 39.60 |
| 17 | 0 | 2 | 0 | 5 | 4 | 1 | 1 | 1 | 7 | 17.60 | 4.17 | 17.36 | 100.00 | 11.40 | 6.22 | 22.80 |
| 18 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0.20 | 0.17 | 0.69 | 20.00 | 0.20 | 0.40 | 1.20 |
| 19 | 0 | 0 | 1 | 2 | 2 | 0 | 1 | 0 | 3 | 1.40 | 0.83 | 3.47 | 40.00 | 1.00 | 1.20 | 2.40 |
| 20 | 0 | 1 | 2 | 5 | 0 | 2 | 4 | 2 | 8 | 6.40 | 2.00 | 8.33 | 30.00 | 2.80 | 4.20 | 10.80 |
| 21 | 0 | 1 | 0 | 7 | 3 | 2 | 1 | 2 | 8 | 10.20 | 3.83 | 15.97 | 190.00 | 8.80 | 2.64 | 6.00 |
| 22 | 0 | 0 | 3 | 7 | 3 | 1 | 3 | 3 | 10 | 8.00 | 4.83 | 20.14 | 90.00 | 3.20 | 1.92 | 4.80 |
| 23 | 0 | 2 | 1 | 2 | 2 | 0 | 2 | 1 | 5 | 9.80 | 2.83 | 11.81 | 100.00 | 5.00 | 2.73 | 10.80 |
| 24 | 0 | 0 | 1 | 3 | 1 | 1 | 1 | 1 | 4 | 1.80 | 0.83 | 3.47 | 30.00 | 1.20 | 1.80 | 4.80 |
| 25 | 1 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 11.20 | 1.00 | 4.17 | 40.00 | 9.40 | 11.28 | 33.60 |
| 26 | 0 | 0 | 2 | 1 | 1 | 0 | 1 | 1 | 3 | 2.00 | 1.17 | 4.86 | 40.00 | 1.00 | 1.20 | 2.40 |
| 27 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 3.80 | 1.17 | 4.86 | 100.00 | 3.80 | 2.07 | 8.40 |
| 28 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 2 | 5.80 | 2.67 | 11.11 | 180.00 | 5.60 | 1.77 | 6.00 |
| 29 | 1 | 1 | 0 | 4 | 2 | 0 | 3 | 1 | 6 | 25.40 | 3.17 | 13.19 | 110.00 | 21.80 | 10.90 | 44.40 |
| 30 | 0 | 2 | 2 | 0 | 1 | 0 | 0 | 3 | 4 | 13.00 | 3.50 | 14.58 | 70.00 | 5.00 | 3.75 | 9.60 |
| 31 | 0 | 3 | 1 | 5 | 4 | 2 | 2 | 1 | 9 | 18.00 | 6.67 | 27.78 | 220.00 | 10.40 | 2.71 | 13.20 |
| MAX | 2 | 3 | 4 | 7 | 5 | 2 | 4 | 3 | 13 | 47.00 | 6.67 | 27.78 | 220.00 | 34.40 | 17.49 | 50.40 |
| TOTAL | 7 | 19 | 26 | 78 | 46 | 17 | 37 | 30 | 130 | 323.40 | 70.83 | 9.52 | | | | |

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