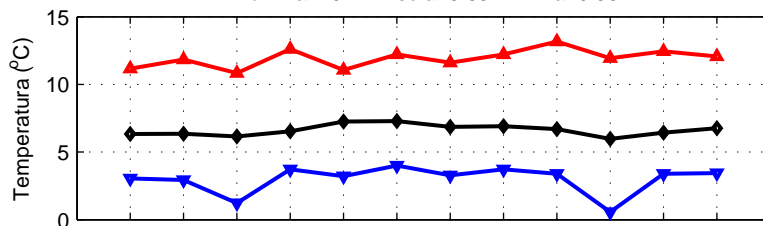


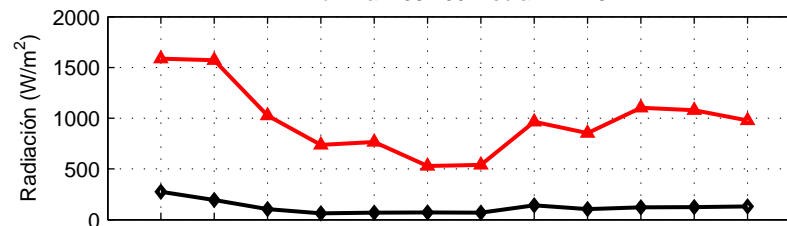
Estación: Cortaderal
Fecha: 2011
Registros: 12 de 12

Reporte climatológico anual
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>

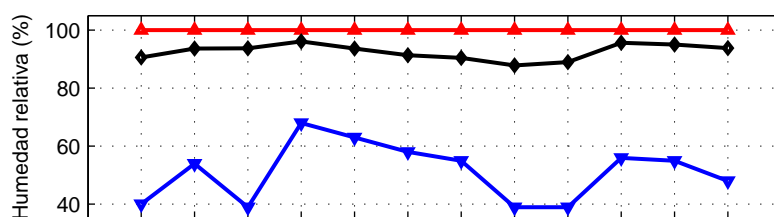
Máxima: 13.17 Media: 6.63 Mínima: 0.56



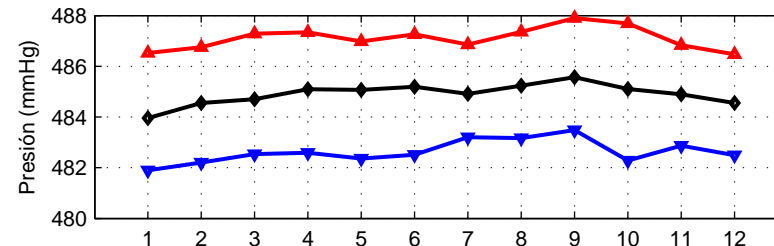
Máxima: 1587.00 Media: 122.28



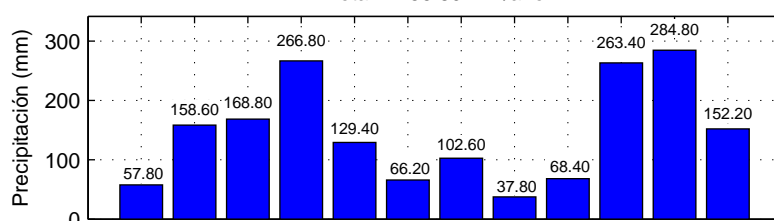
Máxima: 100.00 Media: 92.55 Mínima: 39.00



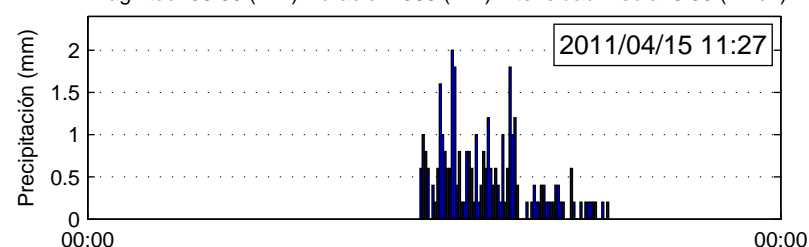
Máxima: 487.90 Media: 484.90 Mínima: 481.90



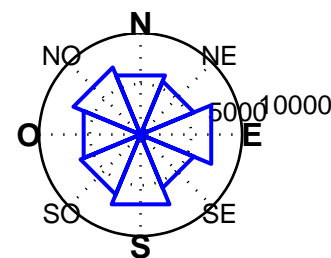
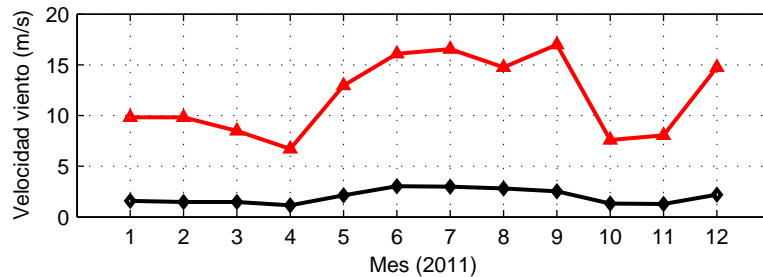
Total: 1756.80 mm/año



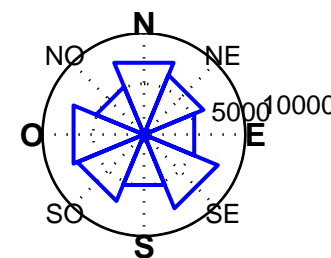
Magnitud: 35.60 (mm) Duración: 385 (min) Intensidad Media: 5.55 (mm/h)



Máxima: 16.99 Media: 2.00



Dirección del viento (Día)



Dirección del viento (Noche)



Estación: Cortaderal
Fecha: 2011
Registros: 12 de 12

Reporte climatológico anual
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

| Mes | 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 |
| Enero | 11.16 | 6.33 | 3.05 | 9.83 | 1.58 | 483.96 | 90.53 | 57.80 | 56.28 | 1587.00 | 274.10 |
| Febrero | 11.83 | 6.35 | 2.94 | 9.83 | 1.47 | 484.55 | 93.66 | 158.60 | 34.45 | 1571.00 | 194.21 |
| Marzo | 10.83 | 6.16 | 1.22 | 8.49 | 1.47 | 484.70 | 93.74 | 168.80 | 17.83 | 1027.00 | 104.73 |
| Abril | 12.61 | 6.53 | 3.72 | 6.71 | 1.16 | 485.09 | 96.05 | 266.80 | 9.20 | 737.00 | 63.31 |
| Mayo | 11.06 | 7.25 | 3.22 | 12.96 | 2.14 | 485.07 | 93.64 | 129.40 | 13.43 | 766.00 | 70.09 |
| Junio | 12.22 | 7.28 | 4.00 | 16.09 | 3.04 | 485.19 | 91.37 | 66.20 | 17.04 | 529.00 | 71.55 |
| Julio | 11.61 | 6.86 | 3.28 | 16.54 | 2.98 | 484.91 | 90.42 | 102.60 | 18.82 | 540.00 | 68.60 |
| Agosto | 12.22 | 6.92 | 3.72 | 14.75 | 2.81 | 485.23 | 87.82 | 37.80 | 32.01 | 965.00 | 140.71 |
| Septiembre | 13.17 | 6.70 | 3.39 | 16.99 | 2.52 | 485.57 | 88.96 | 68.40 | 22.71 | 854.00 | 103.48 |
| Octubre | 11.94 | 5.98 | 0.56 | 7.60 | 1.32 | 485.10 | 95.64 | 263.40 | 18.90 | 1104.00 | 122.53 |
| Noviembre | 12.44 | 6.43 | 3.39 | 8.05 | 1.27 | 484.89 | 94.99 | 284.80 | 18.90 | 1078.00 | 123.06 |
| Diciembre | 12.06 | 6.76 | 3.44 | 14.75 | 2.21 | 484.55 | 93.82 | 152.20 | 24.38 | 979.00 | 130.99 |
| TOTAL | | | | | | | | 1756.80 | 283.95 | | |
| PROM | 11.93 | 6.63 | 2.99 | 11.88 | 2.00 | 484.90 | 92.55 | | | 978.08 | 122.28 |

Cuadro 1: Resumen de análisis climatológico

Estación: Cortaderal
Fecha: 2011
Registros: 12 de 12

Reporte climatológico anual
 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

| Mes | 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) | (%) | | | | |
| Enero | 0 | 7 | 38 | 5 | 15 | 1 | 25 | 9 | 50 | 57.80 | 14.92 | 2.00 | 220.00 | 14.60 | 4.80 | 19.20 |
| Febrero | 2 | 10 | 143 | 6 | 31 | 39 | 54 | 37 | 161 | 158.60 | 40.92 | 6.09 | 555.00 | 22.20 | 29.40 | 115.20 |
| Marzo | 0 | 17 | 100 | 8 | 24 | 25 | 57 | 19 | 125 | 168.80 | 49.33 | 6.63 | 335.00 | 17.20 | 3.88 | 24.00 |
| Abril | 0 | 24 | 114 | 7 | 28 | 25 | 68 | 24 | 145 | 266.80 | 66.92 | 9.29 | 385.00 | 35.60 | 6.72 | 24.00 |
| Mayo | 0 | 9 | 80 | 4 | 15 | 21 | 51 | 6 | 93 | 129.40 | 30.42 | 4.09 | 305.00 | 28.40 | 5.50 | 24.00 |
| Junio | 1 | 7 | 44 | 3 | 7 | 8 | 34 | 6 | 55 | 66.20 | 14.92 | 2.07 | 135.00 | 17.00 | 9.27 | 28.80 |
| Julio | 3 | 8 | 51 | 6 | 15 | 12 | 30 | 11 | 68 | 102.60 | 25.92 | 3.48 | 290.00 | 14.80 | 14.80 | 38.40 |
| Agosto | 3 | 5 | 22 | 4 | 4 | 6 | 21 | 3 | 34 | 37.80 | 7.00 | 0.94 | 75.00 | 7.00 | 8.00 | 28.80 |
| Septiembre | 0 | 8 | 41 | 3 | 9 | 7 | 23 | 13 | 52 | 68.40 | 19.33 | 2.69 | 195.00 | 9.20 | 6.30 | 16.80 |
| Octubre | 3 | 17 | 102 | 4 | 26 | 15 | 52 | 33 | 126 | 263.40 | 62.92 | 8.46 | 320.00 | 29.60 | 7.20 | 24.00 |
| Noviembre | 3 | 16 | 117 | 14 | 20 | 28 | 66 | 36 | 150 | 284.80 | 75.67 | 10.51 | 440.00 | 16.20 | 9.00 | 28.80 |
| Diciembre | 1 | 14 | 93 | 4 | 11 | 18 | 54 | 29 | 112 | 152.20 | 44.17 | 5.94 | 390.00 | 17.80 | 11.66 | 33.60 |
| MAX | 3 | 24 | 143 | 14 | 31 | 39 | 68 | 37 | 161 | 284.80 | 75.67 | 10.51 | 555.00 | 35.60 | 29.40 | 115.20 |
| TOTAL | 16 | 142 | 945 | 68 | 205 | 205 | 535 | 226 | 1171 | 1756.80 | 452.42 | 157.09 | | | | |

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