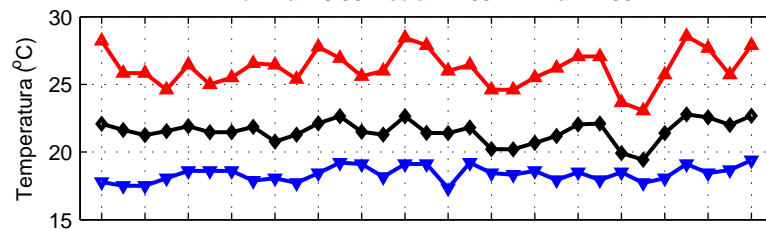


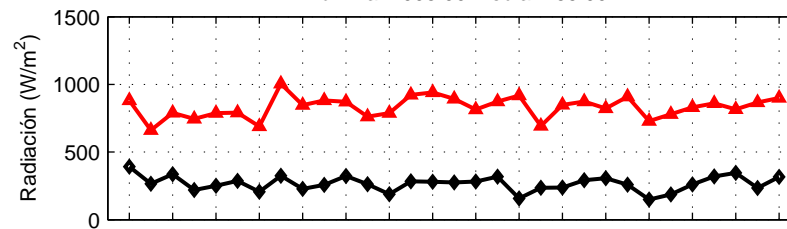
**Estación: Lago**  
**Fecha: Enero de 2007**  
**Registros: 31 de 31**

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.  
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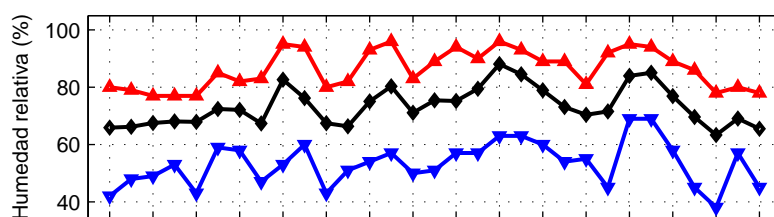
Máxima: 28.56 Media: 21.53 Mínima: 17.33



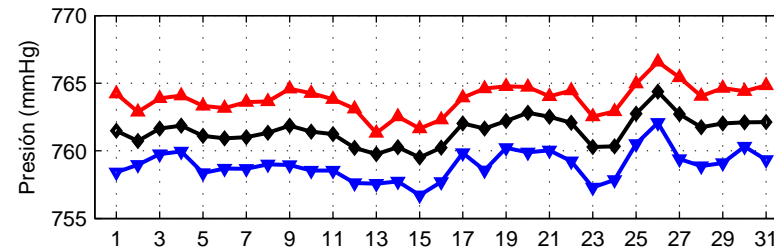
Máxima: 1005.00 Media: 266.90



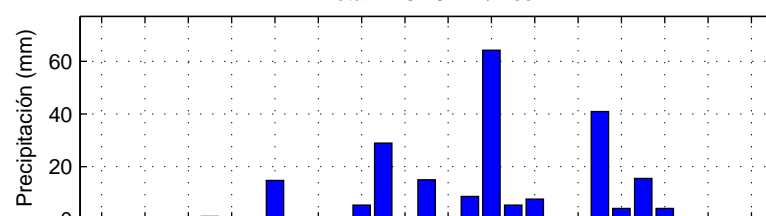
Máxima: 96.00 Media: 73.43 Mínima: 38.00



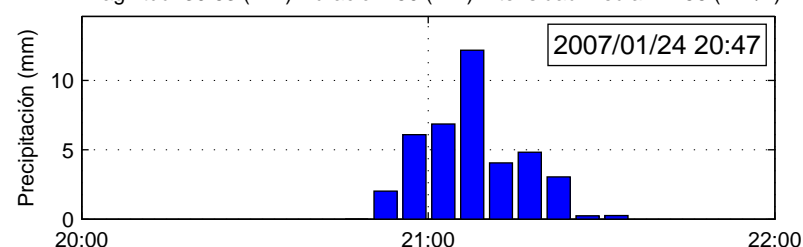
Máxima: 766.57 Media: 761.49 Mínima: 756.71



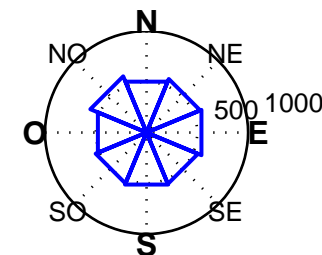
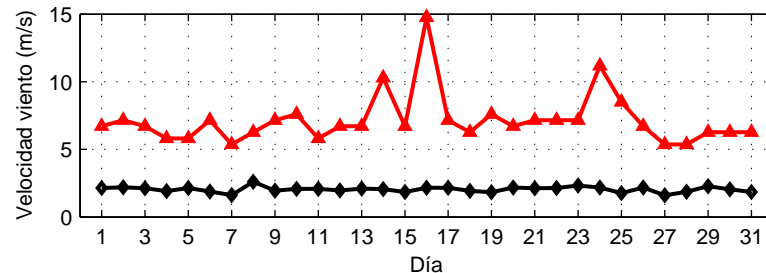
Total: 215.40 mm/mes



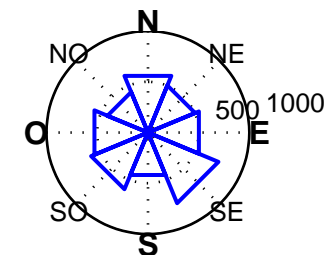
Magnitud: 39.63 (mm) Duración: 50 (min) Intensidad Media: 47.56 (mm/h)



Máxima: 14.76 Media: 2.04



Dirección del viento (Día)



Dirección del viento (Noche)



**Estación: Lago**  
**Fecha: Enero de 2007**  
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| 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     | 28.22            | 22.09 | 17.78 | 6.71              | 2.15  | 761.47         | 65.90       | 0.00               | 37.86     | 882.00                 | 392.33 |
| 2     | 25.83            | 21.64 | 17.50 | 7.16              | 2.19  | 760.72         | 66.22       | 0.00               | 29.48     | 661.00                 | 265.29 |
| 3     | 25.83            | 21.24 | 17.50 | 6.71              | 2.13  | 761.65         | 67.50       | 0.00               | 33.29     | 789.00                 | 335.91 |
| 4     | 24.61            | 21.55 | 18.06 | 5.81              | 1.91  | 761.86         | 68.05       | 0.00               | 23.63     | 745.00                 | 218.68 |
| 5     | 26.44            | 21.91 | 18.61 | 5.81              | 2.14  | 761.11         | 67.89       | 0.00               | 26.93     | 788.00                 | 250.57 |
| 6     | 25.00            | 21.46 | 18.61 | 7.16              | 1.88  | 760.92         | 72.40       | 1.02               | 26.93     | 791.00                 | 287.46 |
| 7     | 25.50            | 21.47 | 18.61 | 5.37              | 1.62  | 761.00         | 72.11       | 0.00               | 21.60     | 689.00                 | 206.36 |
| 8     | 26.56            | 21.86 | 17.89 | 6.26              | 2.61  | 761.34         | 67.37       | 0.00               | 34.81     | 1005.00                | 324.57 |
| 9     | 26.44            | 20.78 | 18.06 | 7.16              | 1.94  | 761.85         | 82.62       | 14.73              | 18.55     | 847.00                 | 226.81 |
| 10    | 25.39            | 21.28 | 17.72 | 7.60              | 2.07  | 761.41         | 76.22       | 0.00               | 24.90     | 881.00                 | 256.45 |
| 11    | 27.78            | 22.12 | 18.44 | 5.81              | 2.08  | 761.23         | 67.47       | 0.00               | 33.03     | 872.00                 | 323.32 |
| 12    | 26.94            | 22.65 | 19.22 | 6.71              | 1.97  | 760.21         | 66.37       | 0.00               | 29.48     | 761.00                 | 261.66 |
| 13    | 25.61            | 21.50 | 19.11 | 6.71              | 2.09  | 759.76         | 75.06       | 5.33               | 20.07     | 788.00                 | 188.55 |
| 14    | 26.00            | 21.28 | 18.17 | 10.29             | 2.06  | 760.27         | 80.33       | 28.96              | 25.66     | 923.00                 | 283.18 |
| 15    | 28.44            | 22.65 | 19.11 | 6.71              | 1.85  | 759.50         | 71.08       | 0.00               | 28.21     | 940.00                 | 279.96 |
| 16    | 27.89            | 21.42 | 19.11 | 14.76             | 2.16  | 760.24         | 75.40       | 14.99              | 28.21     | 893.00                 | 275.33 |
| 17    | 26.00            | 21.39 | 17.33 | 7.16              | 2.16  | 762.02         | 75.16       | 0.00               | 27.95     | 814.00                 | 281.32 |
| 18    | 26.44            | 21.81 | 19.22 | 6.26              | 1.94  | 761.65         | 79.41       | 8.64               | 30.49     | 874.00                 | 317.46 |
| 19    | 24.61            | 20.21 | 18.44 | 7.60              | 1.83  | 762.21         | 88.06       | 64.26              | 13.21     | 918.00                 | 157.09 |
| 20    | 24.61            | 20.20 | 18.33 | 6.71              | 2.17  | 762.81         | 84.52       | 5.33               | 20.07     | 693.00                 | 235.50 |
| 21    | 25.50            | 20.68 | 18.61 | 7.16              | 2.13  | 762.52         | 78.91       | 7.62               | 23.63     | 849.00                 | 237.05 |
| 22    | 26.22            | 21.18 | 17.94 | 7.16              | 2.15  | 762.08         | 73.07       | 0.00               | 28.97     | 874.00                 | 291.43 |
| 23    | 27.06            | 22.04 | 18.50 | 7.16              | 2.33  | 760.29         | 70.34       | 0.00               | 31.00     | 823.00                 | 305.68 |
| 24    | 27.06            | 22.10 | 17.94 | 11.18             | 2.18  | 760.34         | 71.55       | 40.89              | 26.17     | 909.00                 | 259.37 |
| 25    | 23.67            | 19.92 | 18.50 | 8.50              | 1.76  | 762.74         | 83.93       | 4.07               | 14.48     | 729.00                 | 148.59 |
| 26    | 23.06            | 19.43 | 17.72 | 6.71              | 2.18  | 764.37         | 85.01       | 15.49              | 17.28     | 780.00                 | 187.13 |
| 27    | 25.72            | 21.39 | 18.06 | 5.37              | 1.60  | 762.72         | 76.91       | 4.07               | 23.38     | 831.00                 | 260.41 |
| 28    | 28.56            | 22.77 | 19.11 | 5.37              | 1.87  | 761.75         | 69.60       | 0.00               | 32.52     | 860.00                 | 319.75 |
| 29    | 27.67            | 22.57 | 18.44 | 6.26              | 2.28  | 762.03         | 63.33       | 0.00               | 38.37     | 816.00                 | 345.60 |
| 30    | 25.72            | 22.01 | 18.67 | 6.26              | 2.04  | 762.11         | 69.07       | 0.00               | 25.66     | 867.00                 | 234.31 |
| 31    | 27.89            | 22.68 | 19.39 | 6.26              | 1.85  | 762.12         | 65.51       | 0.00               | 31.25     | 900.00                 | 316.72 |
| TOTAL |                  |       |       |                   |       |                |             | 215.40             | 827.07    |                        |        |
| PROM  | 26.20            | 21.53 | 18.38 | 7.16              | 2.04  | 761.49         | 73.43       |                    |           | 832.00                 | 266.90 |

Cuadro 1: Resumen de análisis climatológico

**Estación: Lago**  
**Fecha: Enero de 2007**  
**Registros: 31 de 31**

Reporte climatológico mensual  
 Red Hidroclimatológica del Departamento de Risaralda  
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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     | 0                      | 0 | 0  | 0  | 0                   | 0  | 0  | 0  | 0   | 0.00    | 0.00  | 0.00  | 0.00     | 0.00    | 0.00       | 0.00       |
| 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  | 0  | 0                   | 0  | 0  | 0  | 0   | 0.00    | 0.00  | 0.00  | 0.00     | 0.00    | 0.00       | 0.00       |
| 5     | 0                      | 0 | 0  | 0  | 0                   | 0  | 0  | 0  | 0   | 0.00    | 0.00  | 0.00  | 0.00     | 0.00    | 0.00       | 0.00       |
| 6     | 0                      | 0 | 1  | 0  | 1                   | 0  | 0  | 0  | 1   | 1.02    | 0.25  | 1.04  | 30.00    | 1.02    | 1.75       | 6.12       |
| 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     | 1                      | 0 | 2  | 0  | 0                   | 0  | 1  | 2  | 3   | 14.73   | 1.75  | 7.29  | 70.00    | 12.45   | 9.96       | 24.36      |
| 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    | 1                      | 0 | 1  | 0  | 0                   | 0  | 1  | 1  | 2   | 5.33    | 0.42  | 1.74  | 25.00    | 5.08    | 10.16      | 33.60      |
| 14    | 1                      | 0 | 0  | 0  | 0                   | 0  | 1  | 0  | 1   | 28.96   | 0.67  | 2.78  | 50.00    | 28.96   | 31.59      | 109.80     |
| 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    | 1                      | 0 | 2  | 0  | 0                   | 0  | 1  | 2  | 3   | 14.99   | 0.75  | 3.13  | 35.00    | 14.22   | 21.33      | 67.08      |
| 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    | 1                      | 0 | 1  | 0  | 0                   | 0  | 1  | 1  | 2   | 8.64    | 0.75  | 3.13  | 45.00    | 8.13    | 9.76       | 36.60      |
| 19    | 4                      | 0 | 1  | 0  | 2                   | 1  | 1  | 1  | 5   | 64.26   | 4.42  | 18.40 | 130.00   | 25.65   | 11.40      | 73.08      |
| 20    | 0                      | 1 | 0  | 0  | 0                   | 0  | 1  | 0  | 1   | 5.33    | 0.75  | 3.13  | 60.00    | 5.33    | 4.92       | 15.24      |
| 21    | 0                      | 2 | 0  | 0  | 0                   | 0  | 1  | 1  | 2   | 7.62    | 1.08  | 4.51  | 50.00    | 5.59    | 6.10       | 21.24      |
| 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    | 1                      | 1 | 3  | 0  | 0                   | 0  | 0  | 5  | 5   | 40.89   | 1.08  | 4.51  | 50.00    | 39.63   | 43.23      | 146.28     |
| 25    | 0                      | 1 | 2  | 0  | 1                   | 1  | 1  | 0  | 3   | 4.07    | 0.75  | 3.13  | 55.00    | 2.03    | 2.03       | 9.12       |
| 26    | 1                      | 0 | 0  | 0  | 0                   | 0  | 1  | 0  | 1   | 15.49   | 1.33  | 5.56  | 115.00   | 15.49   | 7.75       | 42.60      |
| 27    | 1                      | 0 | 0  | 0  | 0                   | 0  | 1  | 0  | 1   | 4.07    | 0.42  | 1.74  | 30.00    | 4.07    | 6.98       | 18.36      |
| 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                      | 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   | 4                      | 2 | 3  | 0  | 2                   | 1  | 1  | 5  | 5   | 64.26   | 4.42  | 18.40 | 130.00   | 39.63   | 43.23      | 146.28     |
| TOTAL | 12                     | 5 | 13 | 0  | 4                   | 2  | 11 | 13 | 30  | 215.40  | 14.42 | 1.94  |          |         |            |            |

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