

Estación: Mundo Nuevo Fecha: Octubre de 2013 Registros: 31 de 31

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11 13 15 17 19 21 23 25

Día

Reporte climatológico mensual

Red Hidroclimatológica del Departamento de Risaralda

Revisó: Adm. Ambiental Victor Manuel Bermúdez Marín. Operador REDH

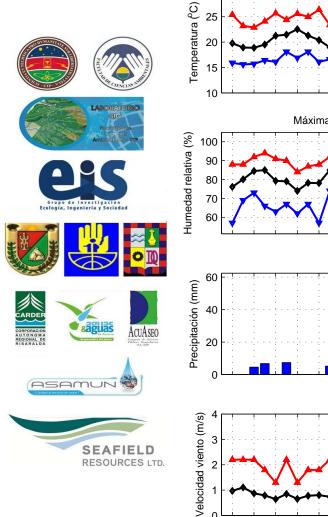
Dirección del viento (Día)

50/0 1000

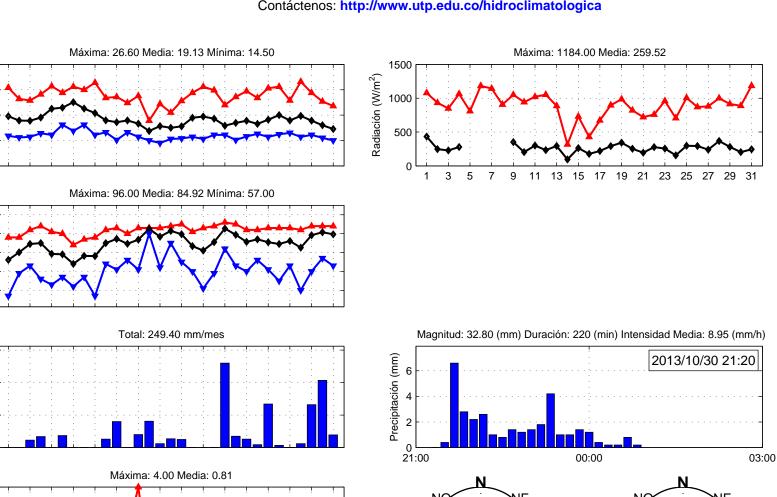
Dirección del viento (Noche)

Aprobó: Ing Ph.D. Juan Mauricio Castaño Rojas. Director REDH.

Contáctenos: http://www.utp.edu.co/hidroclimatologica



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|       | Temperatura |       | Vel. Viento |       | Presión | Humedad | Precipitación | Evap   | Radiació |           |        |
|-------|-------------|-------|-------------|-------|---------|---------|---------------|--------|----------|-----------|--------|
| Día   |             | (°C)  |             | (m/s) |         | (mmHg)  | (%)           | (mm)   | , ,      | (mm) (W/r |        |
|       | Máx         | Media | Mín         | Máx   | Media   | Media   | Media         | Total  | Total    | Máx       | Media  |
| 1     | 25.40       | 19.78 | 15.90       | 2.20  | 0.97    | 689.33  | 76.12         | 0.00   | 3.73     | 1078.00   | 432.58 |
| 2     | 23.20       | 18.94 | 15.60       | 2.20  | 1.10    | 685.32  | 80.11         | 0.00   | 2.26     | 933.00    | 246.57 |
| 3     | 22.90       | 18.89 | 15.70       | 2.20  | 0.87    | 685.79  | 84.51         | 4.60   | 1.93     | 848.00    | 227.58 |
| 4     | 24.10       | 19.51 | 16.40       | 1.80  | 0.79    | 685.93  | 84.96         | 6.80   | 2.20     | 1063.00   | 278.83 |
| 5     | 25.70       | 21.25 | 16.10       | 1.30  | 0.65    | 684.93  | 79.24         | 0.00   | 0.89     | 809.00    |        |
| 6     | 24.40       | 21.47 | 18.10       | 2.20  | 0.85    | 687.94  | 79.03         | 7.40   | 2.08     | 1182.00   |        |
| 7     | 25.60       | 22.55 | 16.90       | 1.30  | 0.66    | 686.63  | 73.95         | 0.00   | 2.54     | 1143.00   |        |
| 8     | 25.00       | 21.30 | 18.10       | 1.80  | 0.78    | 687.99  | 78.20         | 0.00   | 2.13     | 906.00    |        |
| 9     | 26.40       | 20.40 | 16.10       | 1.80  | 0.80    | 688.22  | 78.10         | 0.00   | 3.04     | 1051.00   | 350.93 |
| 10    | 23.40       | 18.97 | 16.60       | 2.20  | 0.74    | 685.15  | 84.98         | 5.20   | 1.55     | 942.00    | 202.79 |
| 11    | 23.60       | 18.61 | 15.10       | 1.80  | 0.79    | 685.61  | 87.19         | 16.00  | 2.29     | 1021.00   | 299.64 |
| 12    | 22.40       | 18.94 | 16.60       | 2.20  | 1.03    | 685.24  | 84.61         | 0.00   | 2.02     | 1052.00   | 231.75 |
| 13    | 23.80       | 18.31 | 15.70       | 4.00  | 0.86    | 685.09  | 86.78         | 8.00   | 2.07     | 886.00    | 292.86 |
| 14    | 18.90       | 16.86 | 15.00       | 0.90  | 0.49    | 683.18  | 92.56         | 16.20  | 0.63     | 317.00    | 95.12  |
| 15    | 22.20       | 17.82 | 14.50       | 2.20  | 0.70    | 686.98  | 88.37         | 2.40   | 1.84     | 730.00    | 261.51 |
| 16    | 20.50       | 17.50 | 15.30       | 1.80  | 0.50    | 684.31  | 91.42         | 5.40   | 1.21     | 428.00    | 176.93 |
| 17    | 22.80       | 17.78 | 15.40       | 2.20  | 0.76    | 687.18  | 89.65         | 5.00   | 1.68     | 672.00    | 219.24 |
| 18    | 24.40       | 19.47 | 15.70       | 2.20  | 1.01    | 693.85  | 83.40         | 0.00   | 2.44     | 896.00    | 291.33 |
| 19    | 25.60       | 19.71 | 15.30       | 2.20  | 1.00    | 689.94  | 81.06         | 0.00   | 2.86     | 985.00    | 341.83 |
| 20    | 24.90       | 19.31 | 16.10       | 1.80  | 0.78    | 698.42  | 85.50         | 0.00   | 1.93     | 820.00    | 252.94 |
| 21    | 22.00       | 17.92 | 16.10       | 1.30  | 0.51    | 703.84  | 92.67         | 52.00  | 1.38     | 721.00    | 193.88 |
| 22    | 23.60       | 18.47 | 15.10       | 1.30  | 0.59    | 694.82  | 89.41         | 7.00   | 2.04     | 758.00    | 277.58 |
| 23    | 24.70       | 18.88 | 15.80       | 2.70  | 1.22    | 685.32  | 85.60         | 5.20   | 2.13     | 959.00    | 256.10 |
| 24    | 23.40       | 18.28 | 16.30       | 2.20  | 1.06    | 687.97  | 86.95         | 1.80   | 1.47     | 705.00    | 154.75 |
| 25    | 25.30       | 19.10 | 15.70       | 2.20  | 1.01    | 695.97  | 85.44         | 26.80  | 2.41     | 1004.00   | 296.18 |
| 26    | 25.60       | 20.00 | 16.20       | 1.30  | 0.74    | 686.14  | 84.49         | 1.40   | 2.22     | 870.00    | 294.01 |
| 27    | 22.90       | 18.96 | 16.50       | 1.80  | 0.61    | 698.33  | 86.08         | 0.20   | 1.80     | 880.00    | 239.61 |
| 28    | 26.60       | 19.85 | 15.70       | 1.80  | 0.73    | 689.19  | 82.57         | 2.40   | 2.79     | 999.00    | 366.42 |
| 29    | 24.40       | 18.90 | 16.10       | 1.30  | 0.55    | 693.32  | 89.15         | 26.40  | 1.98     | 914.00    | 280.36 |
| 30    | 22.70       | 18.02 | 15.50       | 2.70  | 0.98    | 696.86  | 90.76         | 41.40  | 1.47     | 888.00    | 202.56 |
| 31    | 21.80       | 17.26 | 15.00       | 2.20  | 0.91    | 694.50  | 89.64         | 7.80   | 1.80     | 1184.00   | 243.27 |
| TOTAL |             |       |             |       |         |         |               | 249.40 | 62.81    |           |        |
| PROM  | 23.81       | 19.13 | 15.94       | 1.97  | 0.81    | 689.46  | 84.92         |        |          | 891.74    | 259.52 |

Cuadro 1: Resúmen de análisis climatológico

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|       |            | Lluvias por |    |    | Lluvias por |    |    | CLL | PT   |         | P     | DM    | MM      | IMM     | IM5        |            |
|-------|------------|-------------|----|----|-------------|----|----|-----|------|---------|-------|-------|---------|---------|------------|------------|
| Día   | intensidad |             |    |    | jornada     |    |    |     | (mm) |         |       | (min) | (mm)    | (mm/h)  | (mm/h)     |            |
|       | F          | M           | L  | LL | Md          | Mñ | T  | N   |      | (11111) | (h)   | (%)   | (11111) | (11111) | (11111/11) | (11111/11) |
| 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          | 1           | 0  | 0  | 0           | 0  | 1  | 0   | 1    | 4.60    | 0.67  | 2.78  | 50.00   | 4.60    | 4.60       | 15.60      |
| 4     | 0          | 2           | 0  | 3  | 2           | 0  | 1  | 2   | 5    | 6.80    | 1.50  | 6.25  | 50.00   | 4.80    | 4.80       | 25.20      |
| 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     | 1          | 0           | 0  | 0  | 0           | 0  | 1  | 0   | 1    | 7.40    | 0.50  | 2.08  | 40.00   | 7.40    | 8.88       | 31.20      |
| 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           | 0  | 0  | 0           | 0  | 0  | 0   | 0    | 0.00    | 0.00  | 0.00  | 0.00    | 0.00    | 0.00       | 0.00       |
| 10    | 0          | 1           | 0  | 0  | 0           | 0  | 1  | 0   | 1    | 5.20    | 0.83  | 3.47  | 60.00   | 5.20    | 4.46       | 10.80      |
| 11    | 0          | 1           | 1  | 0  | 2           | 0  | 0  | 0   | 2    | 16.00   | 3.17  | 13.19 | 210.00  | 15.60   | 4.25       | 13.20      |
| 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          | 1           | 1  | 3  | 2           | 0  | 2  | 1   | 5    | 8.00    | 2.17  | 9.03  | 50.00   | 5.80    | 5.80       | 25.20      |
| 14    | 0          | 1           | 1  | 1  | 2           | 1  | 0  | 0   | 3    | 16.20   | 5.83  | 24.31 | 320.00  | 14.00   | 2.55       | 7.20       |
| 15    | 0          | 0           | 2  | 2  | 0           | 0  | 1  | 3   | 4    | 2.40    | 1.17  | 4.86  | 30.00   | 1.20    | 1.80       | 4.80       |
| 16    | 0          | 0           | 1  | 1  | 0           | 1  | 1  | 0   | 2    | 5.40    | 2.50  | 10.42 | 160.00  | 4.60    | 1.62       | 4.80       |
| 17    | 0          | 1           | 1  | 0  | 1           | 0  | 1  | 0   | 2    | 5.00    | 1.50  | 6.25  | 70.00   | 3.20    | 2.40       | 6.00       |
| 18    | 0          | 0           | 0  | 0  | 0           | 0  | 0  | 0   | 0    | 0.00    | 0.00  | 0.00  | 0.00    | 0.00    | 0.00       | 0.00       |
| 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          | 0           | 0  | 0  | 0           | 0  | 0  | 0   | 0    | 0.00    | 0.00  | 0.00  | 0.00    | 0.00    | 0.00       | 0.00       |
| 21    | 1          | 2           | 1  | 3  | 2           | 2  | 2  | 1   | 7    | 52.00   | 7.33  | 30.56 | 180.00  | 27.20   | 8.59       | 38.40      |
| 22    | 0          | 0           | 1  | 0  | 1           | 0  | 0  | 0   | 1    | 7.00    | 2.17  | 9.03  | 170.00  | 7.00    | 2.33       | 7.20       |
| 23    | 0          | 1           | 0  | 0  | 0           | 0  | 1  | 0   | 1    | 5.20    | 0.67  | 2.78  | 50.00   | 5.20    | 5.20       | 24.00      |
| 24    | 0          | 0           | 1  | 1  | 0           | 0  | 2  | 0   | 2    | 1.80    | 1.00  | 4.17  | 70.00   | 1.60    | 1.20       | 3.60       |
| 25    | 2          | 0           | 0  | 1  | 0           | 0  | 2  | 1   | 3    | 26.80   | 1.50  | 6.25  | 60.00   | 15.60   | 13.37      | 54.00      |
| 26    | 0          | 1           | 0  | 0  | 0           | 0  | 1  | 0   | 1    | 1.40    | 0.33  | 1.39  | 30.00   | 1.40    | 2.10       | 6.00       |
| 27    | 0          | 0           | 0  | 1  | 0           | 0  | 1  | 0   | 1    | 0.20    | 0.17  | 0.69  | 20.00   | 0.20    | 0.40       | 1.20       |
| 28    | 0          | 0           | 1  | 0  | 0           | 0  | 0  | 0   | 1    | 2.40    | 1.00  | 4.17  | 70.00   | 2.40    | 1.80       | 6.00       |
| 29    | 1          | 1           | 2  | 1  | 2           | 1  | 1  | 1   | 5    | 26.40   | 2.33  | 9.72  | 90.00   | 23.00   | 13.80      | 66.00      |
| 30    | 2          | 0           | 1  | 1  | 0           | 0  | 2  | 2   | 4    | 41.40   | 4.67  | 19.44 | 160.00  | 29.80   | 10.52      | 39.60      |
| 31    | 0          | 1           | 4  | 2  | 2           | 1  | 1  | 3   | 7    | 7.80    | 3.00  | 12.50 | 60.00   | 3.00    | 2.57       | 7.20       |
| MAX   | 2          | 2           | 4  | 3  | 2           | 2  | 2  | 3   | 7    | 52.00   | 7.33  | 30.56 | 320.00  | 29.80   | 13.80      | 66.00      |
| TOTAL | 7          | 14          | 18 | 20 | 16          | 6  | 22 | 14  | 59   | 249.40  | 44.00 | 5.91  |         |         |            |            |

Cuadro 1: Análisis mensual de lluvias

| F  | Fuerte   | $7.6 \text{ (mm/h)} \leq \text{intensidad}$                     |
|----|----------|---|
| M  | Moderada | $2.5 \text{ (mm/h)} < \text{intensidad} \le 7.6 \text{ (mm/h)}$ |
| L  | Ligera   | $1.0 \text{ (mm/h)} < \text{intensidad} \le 2.5 \text{ (mm/h)}$ |
| LL | Llovizna | $1.0 \text{ (mm/h)} \ge \text{intensidad}$                      |

| Md | Madrugada | 00:00 - 05:59 |
|----|-----------|---------------|
| Mñ | Mañana    | 06:00 - 11:59 |
| T  | Tarde     | 12:00 - 17:59 |
| N  | Noche     | 18:00 - 23:59 |

| Cantidad de Lluvias                  |
|--------------------------------------|
| Precipitación total (mm)             |
| Duración precipitacion diaria        |
| Duración máxima lluvia aislada (min) |
| Magnitud máx. lluvia aislada (mm)    |
| Intensidad media máxima (mm/h)       |
| Intensidad máx. en 5 minutos (mm/h)  |
|                                      |