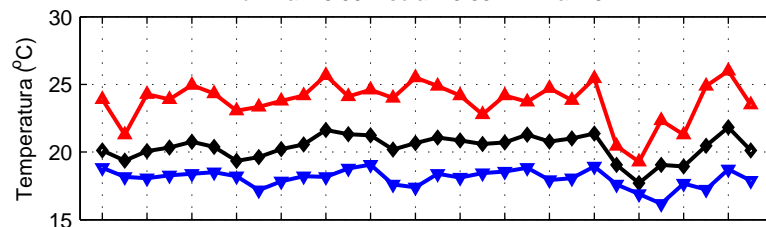


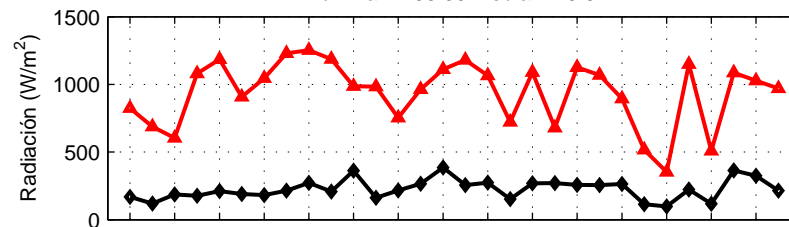
Estación: El Nudo
Fecha: Junio de 2014
Registros: 30 de 30

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: <http://www.utp.edu.co/hidroclimatologica>

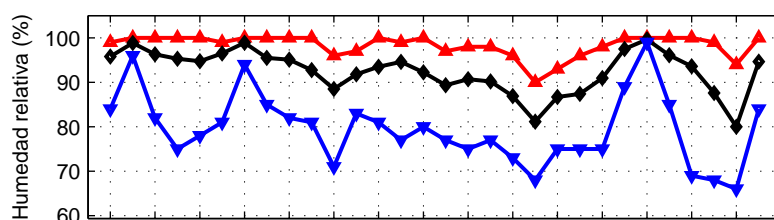
Máxima: 26.00 Media: 20.35 Mínima: 16.17



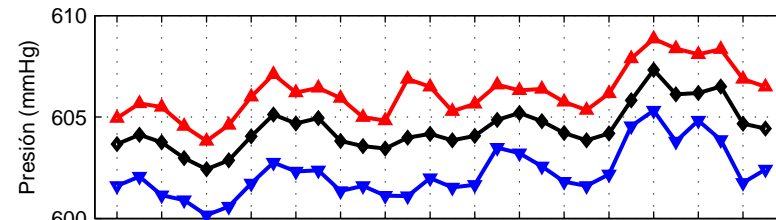
Máxima: 1253.00 Media: 225.51



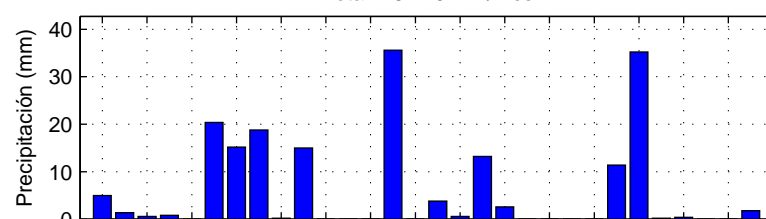
Máxima: 100.00 Media: 92.41 Mínima: 66.00



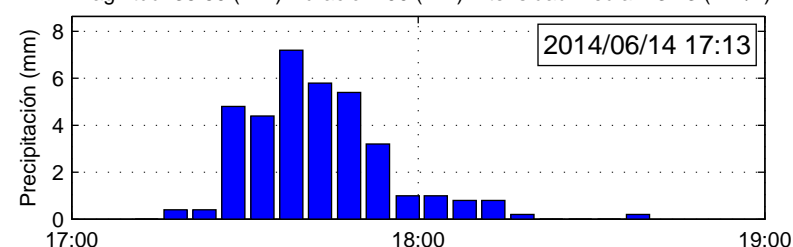
Máxima: 608.85 Media: 604.45 Mínima: 600.16



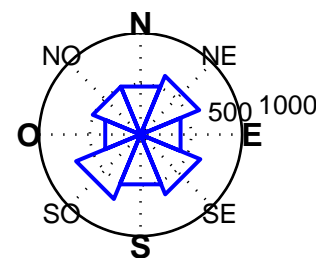
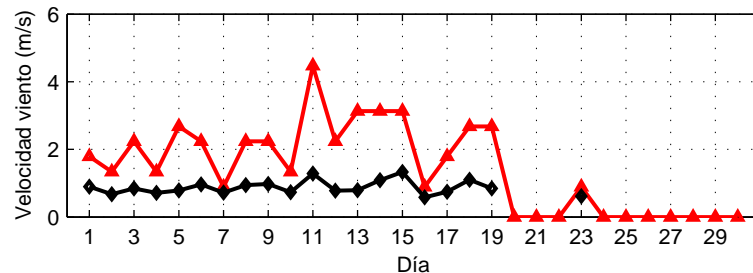
Total: 182.20 mm/mes



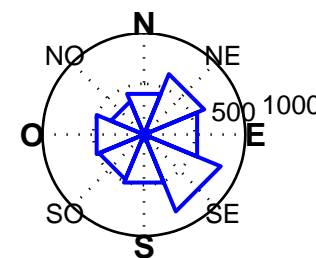
Magnitud: 35.60 (mm) Duración: 90 (min) Intensidad Media: 23.73 (mm/h)



Máxima: 4.47 Media: 0.87



Dirección del viento (Día)



Dirección del viento (Noche)



Estación: El Nudo
Fecha: Junio de 2014
Registros: 30 de 30

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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 | 23.89 | 20.12 | 18.83 | 1.79 | 0.90 | 603.67 | 95.80 | 5.00 | 1.27 | 824.00 | 167.75 |
| 2 | 21.28 | 19.36 | 18.17 | 1.34 | 0.67 | 604.12 | 98.82 | 1.40 | 0.84 | 687.00 | 118.32 |
| 3 | 24.28 | 20.07 | 18.06 | 2.24 | 0.85 | 603.75 | 96.26 | 0.60 | 1.47 | 603.00 | 185.99 |
| 4 | 23.89 | 20.32 | 18.28 | 1.34 | 0.71 | 602.98 | 95.30 | 0.80 | 1.32 | 1081.00 | 176.48 |
| 5 | 24.94 | 20.75 | 18.39 | 2.68 | 0.78 | 602.42 | 94.72 | 0.00 | 1.73 | 1185.00 | 211.58 |
| 6 | 24.33 | 20.39 | 18.50 | 2.24 | 0.96 | 602.86 | 96.50 | 20.40 | 1.42 | 907.00 | 189.72 |
| 7 | 23.06 | 19.34 | 18.22 | 0.89 | 0.72 | 604.05 | 98.89 | 15.20 | 1.27 | 1046.00 | 180.76 |
| 8 | 23.33 | 19.62 | 17.17 | 2.24 | 0.95 | 605.13 | 95.48 | 18.80 | 1.60 | 1229.00 | 214.01 |
| 9 | 23.78 | 20.22 | 17.83 | 2.24 | 0.97 | 604.69 | 95.08 | 0.20 | 2.03 | 1253.00 | 272.37 |
| 10 | 24.17 | 20.56 | 18.22 | 1.34 | 0.74 | 604.95 | 92.73 | 15.00 | 1.63 | 1187.00 | 207.02 |
| 11 | 25.67 | 21.63 | 18.17 | 4.47 | 1.28 | 603.81 | 88.48 | 0.00 | 2.92 | 986.00 | 362.30 |
| 12 | 24.11 | 21.32 | 18.78 | 2.24 | 0.78 | 603.56 | 91.78 | 0.00 | 1.27 | 983.00 | 161.20 |
| 13 | 24.61 | 21.23 | 19.06 | 3.13 | 0.79 | 603.44 | 93.51 | 0.00 | 1.63 | 754.00 | 216.34 |
| 14 | 24.00 | 20.18 | 17.61 | 3.13 | 1.09 | 603.98 | 94.59 | 35.60 | 1.88 | 963.00 | 265.48 |
| 15 | 25.50 | 20.67 | 17.39 | 3.13 | 1.33 | 604.17 | 92.22 | 0.00 | 3.00 | 1111.00 | 385.01 |
| 16 | 24.89 | 21.07 | 18.39 | 0.89 | 0.58 | 603.85 | 89.33 | 3.80 | 2.08 | 1181.00 | 256.03 |
| 17 | 24.17 | 20.85 | 18.11 | 1.79 | 0.75 | 604.07 | 90.67 | 0.60 | 2.11 | 1065.00 | 273.92 |
| 18 | 22.78 | 20.59 | 18.44 | 2.68 | 1.10 | 604.85 | 90.18 | 13.20 | 1.25 | 722.00 | 152.54 |
| 19 | 24.17 | 20.71 | 18.56 | 2.68 | 0.84 | 605.19 | 86.91 | 2.60 | 2.13 | 1090.00 | 268.56 |
| 20 | 23.72 | 21.28 | 18.83 | 0.00 | | 604.79 | 81.15 | 0.00 | 2.19 | 680.00 | 270.59 |
| 21 | 24.72 | 20.77 | 17.94 | 0.00 | | 604.21 | 86.68 | 0.00 | 2.13 | 1127.00 | 256.53 |
| 22 | 23.83 | 21.01 | 18.06 | 0.00 | | 603.85 | 87.41 | 0.00 | 2.08 | 1069.00 | 254.88 |
| 23 | 25.44 | 21.37 | 18.94 | 0.89 | 0.62 | 604.19 | 90.93 | 0.00 | 2.08 | 895.00 | 262.97 |
| 24 | 20.44 | 19.05 | 17.61 | 0.00 | | 605.82 | 97.47 | 11.40 | 0.84 | 517.00 | 115.00 |
| 25 | 19.28 | 17.70 | 16.89 | 0.00 | | 607.32 | 99.61 | 35.20 | 0.66 | 353.00 | 98.02 |
| 26 | 22.33 | 19.05 | 16.17 | 0.00 | | 606.11 | 96.07 | 0.20 | 1.60 | 1150.00 | 222.64 |
| 27 | 21.28 | 18.94 | 17.67 | 0.00 | | 606.18 | 93.57 | 0.40 | 0.86 | 508.00 | 117.30 |
| 28 | 24.89 | 20.47 | 17.22 | 0.00 | | 606.50 | 87.59 | 0.00 | 2.87 | 1086.00 | 363.88 |
| 29 | 26.00 | 21.83 | 18.72 | 0.00 | | 604.67 | 80.01 | 0.00 | 2.67 | 1027.00 | 323.75 |
| 30 | 23.50 | 20.12 | 17.89 | 0.00 | | 604.43 | 94.62 | 1.80 | 1.60 | 970.00 | 214.24 |
| TOTAL | | | | | | | | 182.20 | 52.43 | | |
| PROM | 23.74 | 20.35 | 18.07 | 1.45 | 0.87 | 604.45 | 92.41 | | | 941.30 | 225.51 |

Cuadro 1: Resumen de análisis climatológico

Estación: El Nudo
Fecha: Junio de 2014
Registros: 30 de 30

Red Hidroclimatológica del Departamento de Risaralda
 Revisó: Adm. Ambiental Victor Manuel Bermúdez Marín. Operador REDH
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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 | 1 | 2 | 0 | 1 | 1 | 1 | 0 | 3 | 5.00 | 0.83 | 3.47 | 55.00 | 4.60 | 4.60 | 19.20 |
| 2 | 0 | 0 | 4 | 1 | 0 | 1 | 1 | 3 | 5 | 1.40 | 0.50 | 2.08 | 10.00 | 0.40 | 1.60 | 4.80 |
| 3 | 0 | 0 | 3 | 0 | 2 | 0 | 0 | 1 | 3 | 0.60 | 0.25 | 1.04 | 10.00 | 0.20 | 0.80 | 2.40 |
| 4 | 0 | 0 | 3 | 0 | 2 | 1 | 0 | 0 | 3 | 0.80 | 0.25 | 1.04 | 10.00 | 0.40 | 1.60 | 4.80 |
| 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 | 3 | 2 | 0 | 2 | 3 | 0 | 1 | 6 | 20.40 | 2.50 | 10.42 | 40.00 | 9.20 | 12.27 | 40.80 |
| 7 | 0 | 1 | 6 | 0 | 2 | 0 | 2 | 3 | 7 | 15.20 | 2.83 | 11.81 | 85.00 | 10.40 | 6.93 | 16.80 |
| 8 | 0 | 3 | 2 | 0 | 2 | 1 | 2 | 0 | 5 | 18.80 | 3.67 | 15.28 | 135.00 | 8.60 | 3.69 | 14.40 |
| 9 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0.20 | 0.08 | 0.35 | 10.00 | 0.20 | 0.80 | 2.40 |
| 10 | 1 | 0 | 3 | 0 | 2 | 1 | 1 | 0 | 4 | 15.00 | 1.25 | 5.21 | 50.00 | 13.60 | 14.84 | 57.60 |
| 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 14 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 35.60 | 1.17 | 4.86 | 90.00 | 35.60 | 22.48 | 86.40 |
| 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 | 3.80 | 0.42 | 1.74 | 20.00 | 3.20 | 7.68 | 28.80 |
| 17 | 0 | 0 | 3 | 0 | 1 | 0 | 2 | 0 | 3 | 0.60 | 0.25 | 1.04 | 10.00 | 0.20 | 0.80 | 2.40 |
| 18 | 1 | 1 | 2 | 0 | 0 | 1 | 3 | 0 | 4 | 13.20 | 1.67 | 6.94 | 55.00 | 10.20 | 10.20 | 28.80 |
| 19 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 2 | 2.60 | 0.33 | 1.39 | 30.00 | 2.40 | 4.11 | 21.60 |
| 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 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 | 0 | 1 | 5 | 0 | 1 | 1 | 1 | 3 | 6 | 11.40 | 2.25 | 9.38 | 85.00 | 9.20 | 6.13 | 16.80 |
| 25 | 0 | 3 | 2 | 0 | 2 | 1 | 2 | 0 | 5 | 35.20 | 6.08 | 25.35 | 180.00 | 16.60 | 5.38 | 21.60 |
| 26 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0.20 | 0.08 | 0.35 | 10.00 | 0.20 | 0.80 | 2.40 |
| 27 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0.40 | 0.08 | 0.35 | 10.00 | 0.40 | 1.60 | 4.80 |
| 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 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 1.80 | 0.50 | 2.08 | 60.00 | 1.80 | 1.66 | 7.20 |
| MAX | 1 | 3 | 6 | 1 | 2 | 3 | 3 | 3 | 7 | 35.60 | 6.08 | 25.35 | 180.00 | 35.60 | 22.48 | 86.40 |
| TOTAL | 5 | 14 | 44 | 1 | 19 | 12 | 20 | 13 | 64 | 182.20 | 25.00 | 3.47 | | | | |

Cuadro 1: Análisis mensual de lluvias

| | | |
|----|----------|--|
| F | Fuerte | $7.6 \text{ (mm/h)} < \text{intensidad}$ |
| 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