UNIVERSIDAD NACIONAL DE COLOMBIA SEDE MANIZALES



OBSERVATORIOS AMBIENTALES PARA EL DESARROLLO URBANO SOSTENIBLE EN MANIZALES

RED DE ESTACIONES HIDROMETEOROLÓGICAS PARA PREVENCIÓN DE DESASTRES DE MANIZALES

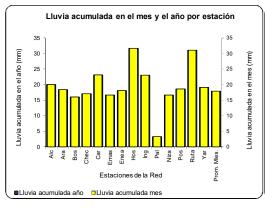
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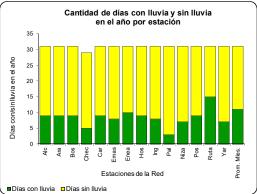


REGISTROS DE LLUVIA DIARIA E INDICADORES DE LLUVIA ANTECEDENTE DE 25 DÍAS

ENERO DE 2016

| Estad | | | zares | | njuez | No | ues del orte | Chec | | El Ca | | Em | | | iea | Cal | ital de das | • | minas | | alma | | za | | rados | | tuta 30 | | imos | Prom Maniz | nedio zales |
|---------------------|-------|--------|-------|---------|-------|--------|-----------------|--------|------|---------|------|---------|------|---------|------|---------|----------------|--------|--------|--------|--------|---------|------|--------|-------|--------|---------|----------|------|---------------|----------------|
| Propie | | | a/UGR | Alcaldi | | | ía/UGR | CHEC S | | Alcaldí | | EMAS S. | | Alcaldi | | Alcaldí | | | ia/UGR | | ía/UGR | Alcaldí | | UN-Ma | | UN-Ma | | Alcaldía | | | |
| D | ia | Ll. d. | A25 | Ll. d. | A25 | Ll. d. | A25 | Ll. d. | A25 | Ll. d. | A25 | Ll. d. | A25 | Ll. d. | A25 | Ll. d. | A25 | Ll. d. | A25 | Ll. d. | A25 | Ll. d. | A25 | Ll. d. | A25 | Ll. d. | A25 | Ll. d. | A25 | Ll. d. | A25 |
| V | 1 | 0.0 | 10.6 | 0.4 | 6.4 | 0.0 | 2.0 | 0.0 | 4.0 | 0.0 | 21.9 | 0.0 | 10.6 | 1.3 | 47.0 | 0.0 | 12.4 | 0.0 | 18.2 | 0.0 | 0.4 | 0.4 | 14.6 | 0.3 | 12.7 | 0.4 | 24.4 | 0.0 | 13.5 | 0.3 | 17.4 |
| S | 2 | 0.0 | 10.6 | 0.0 | 6.4 | 1.8 | 3.8 | 0.6 | 4.6 | 0.8 | 22.6 | 0.6 | 9.0 | 8.0 | 47.8 | 1.4 | 12.8 | 0.8 | 19.0 | 0.0 | 0.4 | 6.0 | 17.0 | 0.8 | 12.2 | 0.4 | 24.2 | 4.1 | 10.9 | 2.0 | 18.3 |
| D | 3 | 0.0 | 10.6 | 0.0 | 6.4 | 0.2 | 4.0 | 0.0 | 4.6 | 0.0 | 22.6 | 0.0 | 9.0 | 0.3 | 48.0 | 0.0 | 12.8 | 0.0 | 19.0 | 0.0 | 0.4 | 0.0 | 17.0 | 0.0 | 12.2 | 0.2 | 24.2 | 0.0 | 10.9 | 0.1 | 18.4 |
| L | 4 | 3.0 | 13.6 | 1.2 | 7.6 | 3.0 | 7.0 | 4.4 | 9.0 | 2.5 | 25.2 | 2.0 | 11.0 | 3.0 | 51.1 | 4.0 | 16.8 | 3.2 | 22.2 | 1.8 | 2.2 | 0.0 | 17.0 | 1.5 | 13.7 | 5.2 | 29.4 | 1.5 | 12.5 | 2.2 | 20.6 |
| Ma | 5 | 0.2 | 13.8 | 3.4 | 11.0 | 0.4 | 7.4 | 0.0 | 9.0 | 0.0 | 25.2 | 0.2 | 11.2 | 1.5 | 51.1 | 1.4 | 18.2 | 0.0 | 22.2 | 0.0 | 2.2 | 1.4 | 18.0 | 1.3 | 14.7 | 2.6 | 32.0 | 1.0 | 13.2 | 0.9 | 20.2 |
| Mi | 6 | 6.0 | 19.8 | 6.8 | 17.8 | 7.0 | 14.4 | 7.0 | 16.0 | 6.9 | 32.0 | 6.6 | 17.8 | 7.4 | 58.4 | 10.6 | 28.8 | 6.4 | 28.6 | 0.4 | 2.6 | 5.0 | 23.0 | 7.6 | 22.4 | 7.4 | 39.2 | 6.6 | 19.8 | 6.1 | 26.3 |
| J | 7 | 0.0 | 19.8 | 0.0 | 17.8 | 0.0 | 14.4 | 0.0 | 16.0 | 0.0 | 32.0 | 0.0 | 17.8 | 0.0 | 56.6 | 0.0 | 28.8 | 0.0 | 28.6 | 0.0 | 2.6 | 0.0 | 21.6 | 0.0 | 22.1 | 0.0 | 39.0 | 0.0 | 19.6 | 0.0 | 24.7 |
| V | 8 | 2.0 | 21.2 | 0.0 | 17.8 | 0.0 | 13.0 | 0.0 | 16.0 | 1.0 | 31.2 | 0.0 | 16.2 | 0.0 | 56.4 | 0.0 | 27.2 | 2.0 | 29.8 | 0.0 | 2.6 | 0.6 | 21.8 | 0.0 | 22.1 | 0.2 | 38.2 | 0.0 | 19.3 | 0.4 | 24.2 |
| S | 9 | 0.0 | 21.2 | 0.0 | 17.8 | 0.0 | 13.0 | 0.0 | 16.0 | 0.0 | 31.2 | 0.0 | 16.2 | 0.0 | 56.4 | 0.0 | 27.2 | 0.0 | 29.2 | 0.0 | 2.2 | 0.0 | 21.4 | 0.0 | 22.1 | 0.0 | 38.2 | 0.0 | 19.3 | 0.0 | 23.8 |
| D | 10 | 3.2 | 24.4 | 8.0 | 18.6 | 2.4 | 15.4 | 4.4 | 20.4 | 3.6 | 34.8 | 3.0 | 19.2 | 0.0 | 56.4 | 1.8 | 29.0 | 3.0 | 32.2 | 0.0 | 2.2 | 0.8 | 22.2 | 1.0 | 23.1 | 1.6 | 39.8 | 1.8 | 21.1 | 1.5 | 25.3 |
| L | 11 | 2.2 | 21.4 | 0.6 | 19.2 | 0.2 | 15.6 | 0.6 | 17.0 | 8.0 | 25.7 | 1.0 | 19.2 | 0.0 | 38.4 | 0.8 | 25.6 | 3.6 | 27.2 | 0.0 | 2.2 | 0.0 | 18.2 | 0.5 | 21.3 | 1.2 | 39.6 | 8.0 | 19.3 | 0.6 | 21.6 |
| Ma | 12 | 0.2 | 21.6 | 0.0 | 13.2 | 0.0 | 15.0 | 0.0 | 17.0 | 0.0 | 23.4 | 0.0 | 18.0 | 0.0 | 29.5 | 0.0 | 20.0 | 0.0 | 24.6 | 0.0 | 2.2 | 0.0 | 14.2 | 0.0 | 19.1 | 0.2 | 33.8 | 0.0 | 17.3 | 0.0 | 17.7 |
| Mi | 13 | 0.0 | 21.6 | 0.0 | 13.2 | 0.0 | 15.0 | 0.0 | 17.0 | 0.0 | 23.4 | 0.0 | 18.0 | 0.0 | 29.5 | 0.0 | 20.0 | 0.0 | 24.6 | 0.0 | 2.2 | 0.0 | 14.2 | 0.0 | 19.1 | 0.0 | 33.6 | 0.0 | 17.3 | 0.0 | 17.7 |
| J | 14 | 0.0 | 21.6 | 0.0 | 13.2 | 0.0 | 15.0 | 0.0 | 17.0 | 0.0 | 18.5 | 0.0 | 13.6 | 0.0 | 14.2 | 0.0 | 20.0 | 0.0 | 24.6 | 0.0 | 2.2 | 0.0 | 14.2 | 0.0 | 13.0 | 0.0 | 19.6 | 0.0 | 15.8 | 0.0 | 14.8 |
| V | 15 | 0.0 | 21.6 | 0.0 | 13.2 | 0.0 | 15.0 | 0.0 | 17.0 | 0.0 | 18.5 | 0.0 | 13.6 | 0.0 | 14.2 | 0.0 | 20.0 | 0.0 | 24.6 | 0.0 | 2.2 | 0.0 | 14.2 | 0.0 | 13.0 | 0.0 | 19.6 | 0.0 | 15.8 | 0.0 | 14.8 |
| S | 16 | 0.0 | 21.6 | 0.0 | 13.2 | 0.0 | 15.0 | 0.0 | 17.0 | 0.0 | 18.5 | 0.0 | 13.6 | 0.0 | 14.2 | 0.0 | 20.0 | 0.0 | 24.6 | 0.0 | 2.2 | 0.0 | 14.2 | 0.0 | 13.0 | 0.0 | 19.6 | 0.0 | 15.8 | 0.0 | 14.8 |
| D | 17 | 0.0 | 21.6 | 0.0 | 13.2 | 0.0 | 15.0 | 0.0 | 17.0 | 0.0 | 18.5 | 0.0 | 13.6 | 0.0 | 14.2 | 0.0 | 20.0 | 0.0 | 24.6 | 0.0 | 2.2 | 0.0 | 14.2 | 0.0 | 13.0 | 0.0 | 19.6 | 0.0 | 15.8 | 0.0 | 14.8 |
| L | 18 | 0.0 | 21.6 | 0.0 | 13.2 | 0.0 | 15.0 | 0.0 | 17.0 | 0.0 | 18.5 | 0.0 | 13.6 | 0.0 | 14.2 | 0.0 | 20.0 | 0.0 | 24.6 | 0.0 | 2.2 | 0.0 | 14.2 | 0.0 | 13.0 | 0.0 | 19.4 | 0.0 | 15.8 | 0.0 | 14.8 |
| Ma | 19 | 0.0 | 21.6 | 0.0 | 13.2 | 0.0 | 15.0 | 0.0 | 17.0 | 0.0 | 18.5 | 0.0 | 13.6 | 0.0 | 14.2 | 0.0 | 20.0 | 0.0 | 24.6 | 0.0 | 2.2 | 0.0 | 14.2 | 0.0 | 13.0 | 0.0 | 19.4 | 0.0 | 15.8 | 0.0 | 14.8 |
| Mi | 20 | 0.0 | 20.4 | 0.0 | 13.2 | 0.0 | 15.0 | 0.0 | 17.0 | 0.0 | 18.5 | 0.0 | 13.6 | 0.0 | 14.2 | 0.0 | 20.0 | 0.0 | 24.0 | 0.0 | 2.2 | 0.0 | 14.2 | 0.0 | 13.0 | 0.0 | 19.4 | 0.0 | 15.8 | 0.0 | 14.7 |
| J | 21 | 0.0 | 20.4 | 0.0 | 13.2 | 0.0 | 15.0 | 0.0 | 17.0 | 0.0 | 18.5 | 0.0 | 13.6 | 0.0 | 14.2 | 3.8 | 23.8 | 0.0 | 24.0 | 0.0 | 2.2 | 0.0 | 14.2 | 0.0 | 13.0 | 0.4 | 19.8 | 0.0 | 15.8 | 0.2 | 14.9 |
| V | 22 | 0.0 | 16.8 | 0.0 | 13.2 | 0.0 | 15.0 | 0.0 | 17.0 | 0.0 | 15.5 | 0.0 | 13.4 | 0.0 | 14.2 | 0.0 | 23.8 | 0.0 | 19.0 | 0.0 | 2.2 | 0.0 | 14.2 | 0.0 | 13.0 | 0.0 | 19.8 | 0.0 | 15.8 | 0.0 | 14.3 |
| S | 23 | 2.8 | 19.6 | 4.0 | 17.2 | 8.0 | 15.8 | | | 6.6 | 22.1 | 2.0 | 15.4 | 1.5 | 15.7 | 5.8 | 29.6 | 3.4 | 22.4 | 1.0 | 3.2 | 2.4 | 16.6 | 2.3 | 15.2 | 8.4 | 28.2 | 3.3 | 19.1 | 2.6 | 16.9 |
| D | 24 | 0.4 | 20.0 | 1.0 | 18.2 | 0.2 | 16.0 | | | 0.8 | 22.9 | 1.2 | 16.6 | 1.5 | 17.3 | 2.0 | 31.6 | 0.6 | 23.0 | 0.0 | 3.2 | 0.0 | 16.6 | 3.3 | 18.6 | 2.4 | 30.6 | 0.0 | 19.1 | 8.0 | 17.7 |
| L | 25 | 0.0 | 20.0 | 0.2 | 18.4 | 0.0 | 16.0 | 0.0 | 17.0 | 0.0 | 22.9 | 0.0 | 16.6 | 0.3 | 17.5 | 0.0 | 31.6 | 0.0 | 23.0 | 0.0 | 3.2 | 0.0 | 16.6 | 0.0 | 18.6 | 0.2 | 30.8 | 0.0 | 19.1 | 0.1 | 17.7 |
| Ma | 26 | 0.0 | 20.0 | 0.0 | 18.0 | 0.0 | 16.0 | 0.0 | 17.0 | 0.0 | 22.9 | 0.0 | 16.6 | 0.0 | 16.3 | 0.0 | 31.6 | 0.0 | 23.0 | 0.0 | 3.2 | 0.0 | 16.2 | 0.0 | 18.3 | 0.0 | 30.4 | 0.0 | 19.1 | 0.0 | 17.4 |
| Mi | 27 | 0.0 | 20.0 | 0.0 | 18.0 | 0.0 | 14.2 | 0.0 | 16.4 | 0.0 | 22.1 | 0.0 | 16.0 | 0.0 | 15.5 | 0.0 | 30.2 | 0.0 | 22.2 | 0.0 | 3.2 | 0.0 | 10.2 | 0.0 | 17.5 | 0.0 | 30.0 | 0.0 | 15.0 | 0.0 | 15.4 |
| J | 28 | 0.0 | 20.0 | 0.0 | 18.0 | 0.0 | 14.0 | 0.0 | 16.4 | 0.0 | 22.1 | 0.0 | 16.0 | 0.0 | 15.2 | 0.0 | 30.2 | 0.0 | 22.2 | 0.0 | 3.2 | 0.0 | 10.2 | 0.0 | 17.5 | 0.0 | 29.8 | 0.0 | 15.0 | 0.0 | 15.4 |
| V | 29 | 0.0 | 17.0 | 0.0 | 16.8 | 0.0 | 11.0 | 0.0 | 12.0 | 0.0 | 19.6 | 0.0 | 14.0 | 0.5 | 12.7 | 0.0 | 26.2 | 0.0 | 19.0 | 0.0 | 1.4 | 0.0 | 10.2 | 0.0 | 16.0 | 0.0 | 24.6 | 0.0 | 13.5 | 0.1 | 13.3 |
| S | 30 | 0.0 | 16.8 | 0.0 | 13.4 | 0.0 | 10.6 | 0.0 | 12.0 | 0.0 | 19.6 | 0.0 | 13.8 | 0.0 | 11.2 | 0.0 | 24.8 | 0.0 | 19.0 | 0.0 | 1.4 | 0.0 | 8.8 | 0.0 | 14.7 | 0.2 | 22.2 | 0.0 | 12.4 | 0.0 | 12.3 |
| D | 31 | 0.0 | 10.8 | 0.0 | 6.6 | 0.0 | 3.6 | 0.0 | 5.0 | 0.3 | 13.0 | 0.0 | 7.2 | 0.0 | 3.8 | 0.0 | 14.2 | 0.0 | 12.6 | 0.0 | 1.0 | 0.0 | 3.8 | 0.0 | 7.1 | 0.0 | 14.8 | 0.0 | 5.8 | 0.0 | 6.3 |
| Ll. mes | | 20.0 | | 18.4 | | 16.0 | | 17.0 | | 23.1 | | 16.6 | | 18.0 | | 31.6 | | 23.0 | | 3.2 | | 16.6 | | 18.6 | | 31.0 | | 19.1 | | 17.9 | |
| Máx. n | nes | 6.0 | 24.4 | 6.8 | 19.2 | 7.0 | 16.0 | 7.0 | 20.4 | 6.9 | 34.8 | 6.6 | 19.2 | 7.4 | 58.4 | 10.6 | 31.6 | 6.4 | 32.2 | 1.8 | 3.2 | 6.0 | 23.0 | 7.6 | 23.1 | 8.4 | 39.8 | 6.6 | 21.1 | 6.1 | 26.3 |
| Ll. acu el año | m. en | 20 | 0.0 | 18 | 3.4 | 16 | 6.0 | 17 | 7.0 | 23 | 3.1 | 16 | .6 | 18 | 3.0 | 31 | 1.6 | 23 | 3.0 | 3 | .2 | 16 | 6.6 | 18 | 8.6 | 31 | 1.0 | 19 | 9.1 | 17 | 7.9 |
| No. día Iluvia a | | 9 | 29% | 9 | 29% | 9 | 29% | 5 | 17% | 9 | 29% | 8 | 26% | 10 | 32% | 9 | 29% | 8 | 26% | 3 | 10% | 7 | 23% | 9 | 29% | 15 | 48% | 7 | 23% | 11 | 35% |





| | anscurrido o a la fec | | 31 |
|----------|--------------------------|------------|----------|
| No. de | días con al | gún N.A. e | n el año |
| Estación | Α | N | R |
| Alc | 0 | 0 | 0 |
| Ara | 0 | 0 | 0 |
| Bos | 0 | 0 | 0 |
| Chec | 0 | 0 | 0 |
| Car | 0 | 0 | 0 |
| Emas | 0 | 0 | 0 |
| Enea | 0 | 0 | 0 |
| Hos | 0 | 0 | 0 |
| Ing | 0 | 0 | 0 |
| Pal | 0 | 0 | 0 |
| Niza | 0 | 0 | 0 |
| Pos | 0 | 0 | 0 |
| Ruta | 0 | 0 | 0 |
| Yar | 0 | 0 | 0 |
| Prom. | 0 | 0 | 0 |

CONVENCIONES

Ll. d.: Lluvia diaria en mm

A25 : Indicador lluvia antecedente de 25 días en mm

LL mes: Lluvia parcial o total en el mes en mm

Máx. mes: Valores máximos de lluvia diaria y A25 en el mes en mm

Ll. acum. en el año: Lluvia acumulada en el año en mm No. días lluvia año: Número de días con lluvia en lo corrido del año

Resalta la lluvia diaria máxima del mes

valor Iluvia diaria correspondiente a una estación cercana

* Indicadores con base a los días de funcinamiento de cada estación

NIVELES DE ALERTA (N.A.)

Amarilla o baja: A 200 mm <= A25 < 300 mm Naranja o media: N 300 mm <= A25 < 400 mm

Roja o alta: R A25 >= 400 mm

OBSERVACIONES:

1. La lluvia promedio y acumulada en lo corrido del año para

Manizales se calcularon con el Método de los Polígonos de Thiessen

2. Datos resaltados en rojo están incompletos

Otras entidades propietarias y participantes







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RED DE ESTACIONES HIDROMETEOROLÓGICAS PARA PREVENCIÓN DE DESASTRES DE MANIZALES

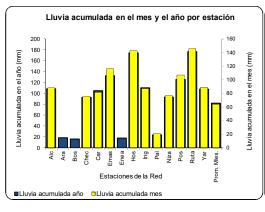
Contrato Municipio de Manizales/UGR - Universidad Nacional de Colombia

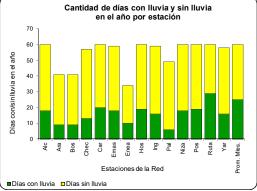


REGISTROS DE LLUVIA DIARIA E INDICADORES DE LLUVIA ANTECEDENTE DE 25 DÍAS

FEBRERO DE 2016

| | ciones | | zares | | ijuez | Bosqu No | rte | Chec | | El Ca | | Em | | En | | | das | Ingeo | | | alma | Ni | | Posg | | Quebra Luis-R | uta 30 | | ımos | Prom Maniz | nedio zales |
|--------------------|------------------------|--------|------------|--------|--------|-------------|-----|-----------------|------|--------------|------|-----------------|-------|--------------|-----|--------------|-------|--------------|------|--------------|------|--------------|------|--------------|-------|------------------|--------|--------------|------|---------------|----------------|
| | Propietarios Alcaldía | | | | ia/UGR | Alcaldí | | CHEC S.A. E.S.P | | Alcaldía/UGR | | EMAS S.A. E.S.P | | Alcaldía/UGR | | Alcaldía/UGR | | Alcaldía/UGR | | Alcaldía/UGR | | Alcaldía/UGR | | UN-Manizales | | | | Alcaldía/UGR | | | |
| | lía | Ll. d. | A25 | Ll. d. | A25 | Ll. d. | A25 | Ll. d. | A25 | Ll. d. | A25 | Ll. d. | A25 | Ll. d. | A25 | Ll. d. | A25 | Ll. d. | A25 | Ll. d. | A25 | Ll. d. | A25 | Ll. d. | A25 | Ll. d. | A25 | Ll. d. | A25 | Ll. d. | A25 |
| L | 1 | 0.0 | 10.8 | 0.0 | 6.6 | 0.0 | 3.6 | 0.0 | 5.0 | 0.0 | 13.0 | 0.0 | 7.2 | 0.0 | 3.8 | 0.0 | 14.2 | 0.0 | 12.6 | 0.0 | 1.0 | 0.0 | 3.8 | 0.0 | 7.1 | 0.0 | 14.8 | 0.0 | 5.8 | 0.0 | 6.3 |
| Ma | 2 | 0.0 | 8.8 | 0.0 | 6.6 | 0.0 | 3.6 | 0.0 | 5.0 | 0.0 | 11.9 | 0.0 | 7.2 | 0.0 | 3.8 | 0.0 | 14.2 | 0.0 | 10.6 | 0.0 | 1.0 | 0.0 | 3.2 | 0.0 | 7.1 | 0.0 | 14.6 | 0.0 | 5.8 | 0.0 | 5.9 |
| Mi | 3 | 0.0 | 8.8 | 0.0 | 6.6 | 0.0 | 3.6 | 0.0 | 5.0 | 0.0 | 11.9 | 0.0 | 7.2 | 0.0 | 3.8 | 0.0 | 14.2 | 0.0 | 10.6 | 0.0 | 1.0 | 0.0 | 3.2 | 0.0 | 7.1 | 0.0 | 14.6 | 0.0 | 5.8 | 0.0 | 5.9 |
| J | 4 | 2.6 | 8.2 | | | | | | | 3.1 | 11.4 | 7.0 | 11.2 | | | 26.2 | 38.6 | 5.2 | 12.8 | 9.2 | 10.2 | 12.8 | 15.2 | 26.7 | 32.8 | 35.8 | 48.8 | | | 8.0 | 12.3 |
| V | 5 | 2.6 | 8.6 | | | | | 2.4 | 2.4 | 1.0 | 11.7 | 0.0 | 10.2 | | | 0.2 | 38.0 | 8.0 | 10.0 | 0.0 | 10.2 | 0.4 | 15.6 | 0.0 | 32.3 | 0.2 | 47.8 | | | 0.4 | 12.1 |
| S | 6 | 0.0 | 8.4 | | | | | 0.0 | 2.4 | 0.0 | 11.7 | 0.2 | 10.4 | | | 0.0 | 38.0 | 0.0 | 10.0 | 0.0 | 10.2 | 0.0 | 15.6 | 0.0 | 32.3 | 0.2 | 47.8 | 0.0 | 3.3 | 0.0 | 12.1 |
| D | 7 | 0.0 | 8.4 | | | | | 0.0 | 2.4 | 0.0 | 11.7 | 0.0 | 10.4 | | | 0.0 | 38.0 | 0.0 | 10.0 | 0.0 | 10.2 | 0.0 | 15.6 | 0.0 | 32.3 | 0.0 | 47.8 | 0.0 | 3.3 | 0.0 | 12.1 |
| L | 8 | 0.0 | 8.4 | | | | | 0.0 | 2.4 | 0.0 | 11.7 | 0.0 | 10.4 | | | 0.0 | 38.0 | 0.0 | 10.0 | 0.0 | 10.2 | 0.0 | 15.6 | 0.0 | 32.3 | 0.0 | 47.8 | 0.0 | 3.3 | 0.0 | 12.1 |
| Ma | 9 | 0.0 | 8.4 | | | | | 0.0 | 2.4 | 0.0 | 11.7 | 0.0 | 10.4 | | | 0.0 | 38.0 | 0.0 | 10.0 | 0.0 | 10.2 | 0.0 | 15.6 | 0.0 | 32.3 | 0.0 | 47.8 | 0.0 | 3.3 | 0.0 | 12.1 |
| Mi | 10 | 0.0 | 8.4 | | | | | 0.0 | 2.4 | 0.0 | 11.7 | 0.0 | 10.4 | | | 0.0 | 38.0 | 0.0 | 10.0 | 0.0 | 10.2 | 0.0 | 15.6 | 0.0 | 32.3 | 0.0 | 47.8 | 0.0 | 3.3 | 0.0 | 12.1 |
| J | 11 | 0.0 | 8.4 | | | | | 0.0 | 2.4 | 0.0 | 11.7 | 3.4 | 13.8 | | | 0.0 | 38.0 | 0.0 | 10.0 | 0.0 | 10.2 | 0.0 | 15.6 | 0.0 | 32.3 | 0.0 | 47.8 | 0.0 | 3.3 | 0.3 | 12.4 |
| V | 12 | 0.0 | 8.4 | | | | | 0.0 | 2.4 | 0.0 | 11.7 | 0.0 | 13.8 | | | 0.0 | 38.0 | 0.0 | 10.0 | 0.0 | 10.2 | 0.0 | 15.6 | 0.0 | 32.3 | 0.0 | 47.8 | 0.0 | 3.3 | 0.0 | 12.4 |
| S | 13 | 3.2 | 11.6 | | | | | 0.0 | 2.4 | 2.5 | 14.2 | 13.6 | 27.4 | | | 8.2 | 46.2 | 6.8 | 16.8 | 4.0 | 14.2 | 3.4 | 19.0 | 2.5 | 34.8 | 4.2 | 52.0 | 7.6 | 10.9 | 3.9 | 16.3 |
| D | 14 | 0.0 | 11.6 | | | | | 0.0 | 2.4 | 0.0 | 14.2 | 0.2 | 27.6 | | | 0.0 | 46.2 | 0.0 | 16.8 | 0.0 | 14.2 | 0.0 | 19.0 | 0.0 | 34.8 | 0.2 | 52.2 | 0.0 | 10.9 | 0.0 | 16.3 |
| L | 15 | 1.8 | 13.4 | | | | | 0.0 | 2.4 | 3.6 | 17.8 | 0.0 | 27.6 | | | 3.2 | 45.6 | 1.0 | 17.8 | 0.0 | 14.2 | 1.8 | 20.8 | 3.6 | 38.4 | 5.0 | 56.8 | 2.0 | 13.0 | 1.3 | 17.4 |
| Ma | 16 | 0.0 | 13.4 | | | | | 0.0 | 2.4 | 0.0 | 17.8 | 0.0 | 27.6 | | | 0.0 | 45.6 | 0.0 | 17.8 | 0.0 | 14.2 | 0.0 | 20.8 | 0.0 | 38.4 | 0.2 | 57.0 | 0.0 | 13.0 | 0.0 | 17.4 |
| Mi | 17 | 0.0 | 10.6 | | | | | 3.0 | 5.4 | 0.5 | 11.7 | 0.4 | 26.0 | | | 0.8 | 40.6 | 0.0 | 14.4 | 0.0 | 13.2 | 0.8 | 19.2 | 1.3 | 37.3 | 3.0 | 51.6 | 0.5 | 10.2 | 0.6 | 15.3 |
| J | 18 | 0.0 | 10.2 | | | | | 0.0 | 5.4 | 0.0 | 10.9 | 0.4 | 25.2 | | | 0.0 | 38.6 | 0.0 | 13.8 | 7.4 | 20.6 | 0.0 | 19.2 | 0.3 | 34.3 | 0.0 | 49.2 | 0.0 | 10.2 | 0.7 | 15.3 |
| V | 19 | 0.0 | 10.2 | | | | | 0.4 | 5.8 | 0.0 | 10.9 | 0.0 | 25.2 | | | 0.0 | 38.6 | 0.0 | 13.8 | | | 0.4 | 19.6 | 0.0 | 34.3 | 0.0 | 49.0 | 0.3 | 10.4 | 0.1 | 15.4 |
| S | 20 | 45.2 | 55.4 | | | | | 22.8 | 28.6 | 24.4 | 35.3 | 40.2 | 65.4 | | | 53.6 | 92.2 | 60.2 | 74.0 | | | 15.0 | 34.6 | 21.8 | 56.1 | 33.8 | 82.8 | 30.7 | 41.2 | 20.1 | 35.5 |
| D | 21 | 29.4 | 84.8 | | | | | 44.2 | 72.8 | 41.2 | 76.5 | 42.0 | 107.4 | | | 44.2 | 136.4 | 9.8 | 83.8 | | | 28.8 | 63.4 | 42.4 | 98.6 | 54.8 | 137.6 | 37.6 | 78.7 | 22.9 | 58.4 |
| L | 22 | 8.0 | 85.6 | | | | | 8.0 | 73.6 | 0.5 | 77.0 | | | | | 1.2 | 137.6 | 0.0 | 83.8 | | | 0.8 | 64.2 | 1.0 | 99.6 | 1.4 | 139.0 | 0.5 | 79.3 | 0.4 | 58.9 |
| Ma | 23 | 0.0 | 85.6 | | | | | 0.0 | 73.6 | 0.5 | 77.5 | 0.0 | 107.4 | | | 2.2 | 139.8 | 0.0 | 83.8 | | | 3.6 | 67.8 | 3.8 | 103.4 | 2.0 | 141.0 | 3.3 | 82.6 | 1.3 | 60.1 |
| Mi | 24 | 0.0 | 85.6 | | | | | 0.0 | 73.6 | 0.0 | 77.5 | 0.0 | 107.4 | | | 0.0 | 139.8 | 0.0 | 83.8 | | | 0.0 | 67.8 | 0.0 | 103.4 | 0.2 | 141.0 | 0.0 | 82.6 | 0.0 | 60.1 |
| J | 25 | 2.0 | 87.6 | | | | | 1.8 | 75.4 | 3.3 | 80.5 | 8.8 | 116.2 | | | 2.8 | 142.6 | 2.4 | 86.2 | | | 9.0 | 76.8 | 3.6 | 106.9 | 4.4 | 145.4 | 6.4 | 88.9 | 3.8 | 63.9 |
| V | 26 | 0.0 | 87.6 | | | | | 0.2 | 75.6 | 0.0 | 80.5 | 0.0 | 116.2 | | | 0.0 | 142.6 | 0.0 | 86.2 | | | 0.0 | 76.8 | 0.0 | 106.9 | 0.0 | 145.4 | 0.0 | 88.9 | 0.0 | 63.9 |
| S | 27 | 0.0 | 87.6 | | | | | 0.0 | 75.6 | 0.0 | 80.5 | 0.0 | 116.2 | | | 0.0 | 142.6 | 0.0 | 86.2 | | | 0.0 | 76.8 | 0.0 | 106.9 | 0.0 | 145.4 | 0.0 | 88.9 | 0.0 | 63.9 |
| D | 28 | 0.6 | 88.2 | | | | | 0.0 | 75.6 | 1.0 | 81.5 | 0.0 | 116.2 | | | 0.0 | 142.6 | 1.2 | 87.4 | | | 0.0 | 76.8 | 0.0 | 106.9 | 0.0 | 145.4 | 0.0 | 88.9 | 0.1 | 64.0 |
| L | 29 | 0.0 | 85.6 | | | | | 0.0 | 75.6 | 0.0 | 78.5 | 0.0 | 109.2 | | | 0.0 | 116.4 | 0.0 | 82.2 | | | 0.0 | 64.0 | 0.0 | 80.3 | 0.0 | 109.6 | 0.0 | 88.9 | 0.0 | 56.1 |
| Ma | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Mi | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ll. me | S | 88.2 | | 0.0 | | 0.0 | | 75.6 | | 81.5 | | 116.2 | | 0.0 | | 142.6 | | 87.4 | | 20.6 | | 76.8 | | 106.9 | | 145.4 | | 88.9 | | 64.0 | |
| Máx. r | nes | 45.2 | 88.2 | 0.0 | 6.6 | 0.0 | 3.6 | 44.2 | 75.6 | 41.2 | 81.5 | 42.0 | 116.2 | 0.0 | 3.8 | 53.6 | 142.6 | 60.2 | 87.4 | 9.2 | 20.6 | 28.8 | 76.8 | 42.4 | 106.9 | 54.8 | 145.4 | 37.6 | 88.9 | 22.9 | 64.0 |
| | Ll. acum. en el año | | 108.2 18.4 | | 3.4 | 16.0 | | 92.6 | | 104.7 | | 132.8 | | 18.0 | | 174.2 | | 110.4 | | 23.8 | | 93 | 3.4 | 12 | 5.5 | 17 | 6.4 | 10 | 8.0 | 81 | 1.9 |
| No. dí Iluvia a | | 18 | 30% | 9 | 22% | 9 | 22% | 13 | 23% | 20 | 33% | 18 | 31% | 10 | 29% | 19 | 32% | 16 | 27% | 6 | 12% | 18 | 30% | 19 | 32% | 29 | 48% | 16 | 28% | 25 | 42% |





| Días tra añ | 60 | | |
|----------------|----------|---|---|
| No. de | n el año | | |
| Estación | R | | |
| Alc | 0 | 0 | 0 |
| Ara | 0 | 0 | 0 |
| Bos | 0 | 0 | 0 |
| Chec | 0 | 0 | 0 |
| Car | 0 | 0 | 0 |
| Emas | 0 | 0 | 0 |
| Enea | 0 | 0 | 0 |
| Hos | 0 | 0 | 0 |
| Ing | 0 | 0 | 0 |
| Pal | 0 | 0 | 0 |
| Niza | 0 | 0 | 0 |
| Pos | 0 | 0 | 0 |
| Ruta | 0 | 0 | 0 |
| Yar | 0 | 0 | 0 |
| Prom. | 0 | 0 | 0 |

CONVENCIONES

Ll. d.: Lluvia diaria en mm

A25 : Indicador Iluvia antecedente de 25 días en mm

Ll. mes: Lluvia parcial o total en el mes en mm

Máx. mes: Valores máximos de lluvia diaria y A25 en el mes en mm

Ll. acum. en el año: Lluvia acumulada en el año en mm

No. días lluvia año: Número de días con lluvia en lo corrido del año

Resalta la lluvia diaria máxima del mes

valor Iluvia diaria correspondiente a una estación cercana

* Indicadores con base a los días de funcinamiento de cada estación NIVELES DE ALERTA (N.A.)

Amarilla o baja: A 200 mm <= A25 < 300 mm Naranja o media: N 300 mm <= A25 < 400 mm

Roja o alta: R A25 >= 400 mm

OBSERVACIONES:

1. La lluvia promedio y acumulada en lo corrido del año para

Manizales se calcularon con el Método de los Polígonos de Thiessen

2. Datos resaltados en rojo están incompletos

Otras entidades propietarias y participantes







UNIVERSIDAD NACIONAL DE COLOMBIA SEDE MANIZALES



OBSERVATORIOS AMBIENTALES PARA EL DESARROLLO URBANO SOSTENIBLE EN MANIZALES

RED DE ESTACIONES HIDROMETEOROLÓGICAS PARA PREVENCIÓN DE DESASTRES DE MANIZALES

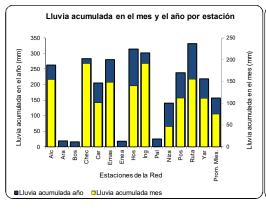
Contrato Municipio de Manizales/UGR - Universidad Nacional de Colombia

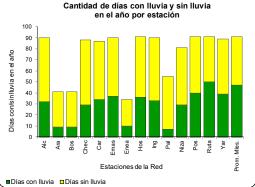


REGISTROS DE LLUVIA DIARIA E INDICADORES DE LLUVIA ANTECEDENTE DE 25 DÍAS

MARZO DE 2016

| Esta | ciones | Alcá | zares | Arar | njuez | Bosqu No | | Chec | Uribe | El Ca | rmen | Em | nas | En | ea | | ital de das | Ingeo | minas | La P | | Ni | za | Posgr | ados | Quebra Luis-R | | Yaru | mos | Prom Maniz | |
|--------------------|---------|--------|--------|--------|--------|-------------|-----|---------|-------|---------|-------|--------|-------|----------|-----|--------|----------------|--------|-------|---------|-----|----------|------|--------|-------|------------------|-------|----------|-------|---------------|------|
| | etarios | Alcald | ia/UGR | Alcald | ía/UGR | Alcaldí | | CHEC S. | | Alcaldí | | EMAS S | | Alcaldía | | | ia/UGR | | a/UGR | Alcaldí | | Alcaldía | | UN-Ma | | UN-Ma | | Alcaldía | | | |
| |)ía | Ll. d. | A25 | Ll. d. | A25 | Ll. d. | A25 | Ll. d. | A25 | Ll. d. | A25 | Ll. d. | A25 | Ll. d. | A25 | Ll. d. | A25 | Ll. d. | A25 | Ll. d. | A25 | Ll. d. | A25 | Ll. d. | A25 | Ll. d. | A25 | Ll. d. | A25 | Ll. d. | A25 |
| Ma | 1 | 1.2 | 84.2 | | | | | 1.2 | 74.4 | 1.3 | 78.7 | 1.4 | 110.6 | | | 1.6 | 117.8 | 1.2 | 82.6 | | | | | 1.8 | 82.0 | 1.8 | 111.2 | 1.5 | 90.4 | 0.6 | 56.3 |
| Mi | 2 | 2.0 | 86.2 | | | | | 2.2 | 76.6 | 5.6 | 84.3 | 3.0 | 113.4 | | | 1.6 | 119.4 | 1.4 | 84.0 | | | | | 1.0 | 83.1 | 2.2 | 113.2 | 2.8 | 93.2 | 1.1 | 57.4 |
| J | 3 | | | | | | | 22.0 | 98.6 | 17.8 | 102.1 | 3.6 | 117.0 | | | 3.8 | 123.2 | 28.2 | 112.2 | | | | | 2.0 | 85.1 | 5.0 | 118.2 | 0.5 | 93.7 | 4.2 | 61.6 |
| V | 4 | 48.6 | 134.8 | | | | | 21.0 | 119.6 | | | 62.6 | 179.6 | | | 56.4 | 179.6 | 63.8 | 176.0 | | | | | 33.0 | 118.1 | 48.2 | 166.4 | 29.0 | 122.7 | 18.8 | 80.5 |
| S | 5 | 0.2 | 135.0 | | | | | 0.2 | 119.8 | | | 1.0 | 180.6 | | | 1.0 | 180.6 | 0.6 | 176.6 | | | | | 2.0 | 120.1 | 1.4 | 167.8 | 3.3 | 126.0 | 0.5 | 81.0 |
| D | 6 | 19.8 | 154.8 | | | | | 9.2 | 129.0 | | | 3.6 | 184.2 | | | 5.8 | 186.4 | 13.4 | 190.0 | | | | | 7.6 | 127.8 | 6.8 | 174.6 | 0.0 | 126.0 | 3.0 | 84.0 |
| L | 7 | 13.4 | 168.2 | | | | | 17.4 | 146.4 | | | 12.2 | 193.0 | | | 6.0 | 192.4 | 3.2 | 193.2 | | | | | 1.5 | 129.3 | 8.0 | 182.6 | 0.0 | 126.0 | 3.1 | 86.8 |
| Ma | 8 | 0.0 | 168.2 | | | | | 26.8 | 173.2 | 0.0 | 102.1 | 0.0 | 193.0 | | | 0.0 | 192.4 | 0.0 | 193.2 | | | | | 8.0 | 130.0 | 0.0 | 182.6 | 7.6 | 133.6 | 1.7 | 88.5 |
| Mi | 9 | 0.0 | 165.0 | | | | | 0.0 | 173.2 | 0.0 | 99.6 | 0.0 | 179.4 | | | 0.0 | 184.2 | 0.0 | 186.4 | | | | | 0.0 | 127.5 | 0.0 | 178.4 | 0.5 | 126.5 | 0.0 | 84.7 |
| J | 10 | 8.6 | 173.6 | | | | | 1.0 | 174.2 | 1.8 | 101.3 | 3.6 | 182.8 | | | 0.4 | 184.6 | 6.8 | 193.2 | | | | | 2.8 | 130.3 | 1.8 | 180.0 | 5.9 | 132.3 | 1.7 | 86.4 |
| V | 11 | 0.0 | 171.8 | | | | | 0.0 | 174.2 | 0.0 | 97.8 | 0.0 | 182.8 | | | 0.0 | 181.4 | 0.0 | 192.2 | 0.0 | 7.4 | 0.0 | 58.4 | 0.0 | 126.8 | 0.0 | 175.0 | 0.3 | 130.6 | 0.0 | 85.1 |
| S | 12 | 0.0 | 171.8 | | | | | 4.0 | 178.2 | 1.5 | 99.3 | 4.6 | 187.4 | | | 9.4 | 190.8 | 0.4 | 192.6 | 0.0 | 7.4 | 1.6 | 60.0 | 4.8 | 131.6 | 11.4 | 186.2 | 11.4 | 142.0 | 2.8 | 87.9 |
| D | 13 | 0.6 | 172.4 | | | | | 0.2 | 175.4 | 0.3 | 99.1 | 8.0 | 187.8 | | | 2.0 | 192.0 | 0.6 | 193.2 | 0.0 | 7.4 | 4.6 | 63.8 | 2.5 | 132.8 | 2.8 | 186.0 | 6.6 | 148.1 | 1.8 | 89.1 |
| L | 14 | 1.0 | 173.4 | | | | | 1.8 | 177.2 | 1.3 | 100.3 | 0.8 | 188.2 | | | 1.2 | 193.2 | 1.0 | 194.2 | 0.8 | 8.0 | 3.0 | 66.8 | 1.3 | 133.9 | 2.0 | 188.0 | 1.5 | 149.6 | 1.3 | 89.7 |
| Ma | 15 | 0.0 | 173.4 | | | | | 0.0 | 176.8 | 0.0 | 100.3 | 0.0 | 188.2 | | | 0.0 | 193.2 | 0.0 | 194.2 | 0.0 | 8.0 | 0.0 | 66.4 | 0.0 | 133.9 | 0.0 | 188.0 | 0.3 | 149.6 | 0.0 | 89.6 |
| Mi | 16 | 0.0 | 128.2 | | | | | 0.0 | 154.0 | 1.3 | 77.2 | 0.0 | 148.0 | | | 0.4 | 140.0 | 0.0 | 134.0 | 0.0 | 8.0 | 0.0 | 51.4 | 8.0 | 112.8 | 8.0 | 155.0 | 1.3 | 120.1 | 0.2 | 69.7 |
| J | 17 | 5.2 | 104.0 | | | | | 10.8 | 120.6 | 4.6 | 40.6 | 12.6 | 118.6 | | | 4.2 | 100.0 | 13.0 | 137.2 | | | 3.8 | 26.4 | 4.1 | 74.4 | 4.8 | 105.0 | 4.8 | 87.4 | 4.3 | 51.0 |
| V | 18 | 0.0 | 103.2 | | | | | 0.0 | 119.8 | 0.0 | 40.1 | 0.0 | 118.6 | | | 0.0 | 98.8 | 0.0 | 137.2 | | | 0.6 | 26.2 | 0.3 | 73.7 | 0.2 | 103.8 | 0.0 | 86.9 | 0.1 | 50.7 |
| S | 19 | 0.0 | 103.2 | | | | | 0.0 | 119.8 | 0.0 | 39.6 | 0.0 | 118.6 | | | 0.0 | 96.6 | 0.0 | 137.2 | | | 0.0 | 22.6 | 0.0 | 69.9 | 0.0 | 101.8 | 0.0 | 83.6 | 0.0 | 49.4 |
| D | 20 | 0.0 | 103.2 | | | | | 0.0 | 119.8 | 0.3 | 39.9 | 0.0 | 118.6 | | | 0.0 | 96.6 | 0.0 | 137.2 | | | 0.0 | 22.6 | 0.0 | 69.9 | 0.0 | 101.6 | 0.0 | 83.6 | 0.0 | 49.4 |
| L | 21 | 0.0 | 101.2 | | | | | 0.0 | 118.0 | 0.0 | 36.6 | 0.4 | 110.2 | | | 0.0 | 93.8 | 0.6 | 135.4 | | | 0.0 | 13.6 | 0.3 | 66.6 | 0.4 | 97.6 | 0.5 | 77.7 | 0.1 | 45.7 |
| Ma | 22 | 1.2 | 102.4 | | | | | 0.4 | 118.2 | 1.5 | 38.1 | 4.0 | 114.2 | | | 2.6 | 96.4 | 1.2 | 136.6 | | | 2.8 | 16.4 | 3.6 | 70.1 | 3.4 | 101.0 | 1.8 | 79.5 | 1.6 | 47.3 |
| Mi | 23 | 0.4 | 102.8 | | | | | 0.0 | 118.2 | 0.0 | 38.1 | 0.2 | 114.4 | | | 0.0 | 96.4 | 1.0 | 137.6 | | | 0.2 | 16.6 | 0.3 | 70.4 | 0.4 | 101.4 | 0.3 | 79.8 | 0.2 | 47.5 |
| J | 24 | 0.0 | 102.2 | | | | | 0.0 | 118.2 | 0.0 | 37.1 | 0.2 | 114.6 | | | 0.0 | 96.4 | 0.0 | 136.4 | | | 0.0 | 16.6 | 0.0 | 70.4 | 0.2 | 101.6 | 0.0 | 79.8 | 0.0 | 47.3 |
| V | 25 | 0.0 | 102.2 | | | | | 0.0 | 118.2 | 0.0 | 37.1 | 0.0 | 114.6 | | | 0.0 | 96.4 | 0.0 | 136.4 | | | 0.0 | 16.6 | 0.0 | 70.4 | 0.0 | 101.6 | 0.0 | 79.8 | 0.0 | 47.3 |
| S | 26 | 0.0 | 101.0 | | | | | 0.0 | 117.0 | 0.0 | 35.8 | 0.0 | 113.2 | | | 0.0 | 94.8 | 0.0 | 135.2 | | | 0.0 | 16.6 | 0.0 | 68.6 | 0.0 | 99.8 | 0.0 | 78.2 | 0.0 | 46.7 |
| D | 27 | 0.4 | 99.4 | | | | | 0.4 | 115.2 | 1.8 | 32.0 | 0.8 | 111.0 | | | 4.2 | 97.4 | 0.6 | 134.4 | | | 5.0 | 21.6 | 5.6 | 73.2 | 5.6 | 103.2 | 7.4 | 82.8 | 2.3 | 47.9 |
| L | 28 | 0.0 | 99.4 | | | | | 0.0 | 93.2 | 0.3 | 14.5 | 0.2 | 107.6 | | | 0.2 | 93.8 | 0.0 | 106.2 | | | 0.4 | 22.0 | 0.5 | 71.6 | 0.4 | 98.6 | 0.3 | 82.6 | 0.2 | 43.9 |
| Ma | 29 | 0.0 | 50.8 | | | | | 0.0 | 72.2 | 0.0 | 14.5 | 0.0 | 45.0 | | | 0.0 | 37.4 | 0.0 | 42.4 | | | 0.0 | 22.0 | 0.0 | 38.6 | 0.0 | 50.4 | 0.3 | 53.9 | 0.0 | 25.1 |
| Mi | 30 | 52.4 | 103.0 | | | | | 72.6 | 144.6 | 61.7 | 76.2 | 32.4 | 76.4 | | | 39.0 | 75.4 | 54.2 | 96.0 | | | 24.2 | 46.2 | 35.8 | 72.4 | 47.8 | 96.8 | 23.1 | 73.7 | 25.2 | 49.8 |
| J | 31 | 0.0 | 83.2 | | | | | 0.0 | 135.4 | 0.0 | 76.2 | 0.0 | 72.8 | | | 0.0 | 69.6 | 0.0 | 82.6 | | | 0.6 | 46.8 | 0.0 | 64.8 | 0.0 | 90.0 | 0.3 | 73.9 | 0.1 | 46.9 |
| Ll. me | s | 155.0 | | 0.0 | | 0.0 | | 191.2 | | 100.8 | | 148.0 | | 0.0 | | 139.8 | | 191.2 | | 8.0 | | 46.8 | | 112.3 | | 155.4 | | 111.0 | | 75.2 | |
| Máx. r | nes | 52.4 | 173.6 | 0.0 | 0.0 | 0.0 | 0.0 | 72.6 | 178.2 | 61.7 | 102.1 | 62.6 | 193.0 | 0.0 | 0.0 | 56.4 | 193.2 | 63.8 | 194.2 | 0.8 | 7.4 | 24.2 | 66.8 | 35.8 | 133.9 | 48.2 | 188.0 | 29.0 | 149.6 | 25.2 | 89.7 |
| Ll. acu el año | ım. en | 26 | 3.2 | 18 | 3.4 | 16 | 3.0 | 28 | 3.8 | 20 | 5.5 | 28 | 0.8 | 18 | .0 | 31 | 4.0 | 30 | 1.6 | 24 | 1.6 | 140 | 0.2 | 23 | 7.8 | 33 | 1.8 | 219 | 9.0 | 157 | 7.1 |
| No. dí Iluvia a | | 32 | 36% | 9 | 22% | 9 | 22% | 29 | 33% | 34 | 39% | 37 | 41% | 10 | 29% | 36 | 40% | 33 | 37% | 7 | 13% | 29 | 36% | 40 | 44% | 50 | 55% | 39 | 44% | 47 | 52% |





| | Días transcurridos en el año a la fecha | | | | | | | | | | |
|----------|--|------------|----------|--|--|--|--|--|--|--|--|
| No. de | días con al | gún N.A. e | n el año | | | | | | | | |
| Estación | Α | N | R | | | | | | | | |
| Alc | 0 | 0 | 0 | | | | | | | | |
| Ara | 0 | 0 | 0 | | | | | | | | |
| Bos | 0 | 0 | 0 | | | | | | | | |
| Chec | 0 | 0 | 0 | | | | | | | | |
| Car | 0 | 0 | 0 | | | | | | | | |
| Emas | 0 | 0 | 0 | | | | | | | | |
| Enea | 0 | 0 | 0 | | | | | | | | |
| Hos | 0 | 0 | 0 | | | | | | | | |
| Ing | 0 | 0 | 0 | | | | | | | | |
| Pal | 0 | 0 | 0 | | | | | | | | |
| Niza | 0 | 0 | 0 | | | | | | | | |
| Pos | 0 | 0 | 0 | | | | | | | | |
| Ruta | 0 | 0 | 0 | | | | | | | | |
| Yar | 0 | 0 | 0 | | | | | | | | |
| Prom. | 0 | 0 | 0 | | | | | | | | |

CONVENCIONES

Ll. d.: Lluvia diaria en mm

A25 : Indicador Iluvia antecedente de 25 días en mm

Ll. mes: Lluvia parcial o total en el mes en mm

Máx. mes: Valores máximos de lluvia diaria y A25 en el mes en mm

Ll. acum. en el año: Lluvia acumulada en el año en mm

No. días lluvia año: Número de días con lluvia en lo corrido del año

Resalta la lluvia diaria máxima del mes

valor Iluvia diaria correspondiente a una estación cercana

* Indicadores con base a los días de funcinamiento de cada estación

NIVELES DE ALERTA (N.A.)

Amarilla o baja: A 200 mm <= A25 < 300 mm Naranja o media: N 300 mm <= A25 < 400 mm

Roja o alta: R A25 >= 400 mm

OBSERVACIONES:

propietarias y participantes

1. La lluvia promedio y acumulada en lo corrido del año para

Manizales se calcularon con el Método de los Polígonos de Thiessen

2. Datos resaltados en rojo están incomple







