



PM2.5 Material Particulado menor a 2.5µm

Resultados para el municipio de Medellín

Resumen de promedios mensuales: Concentración en condiciones de referencia.

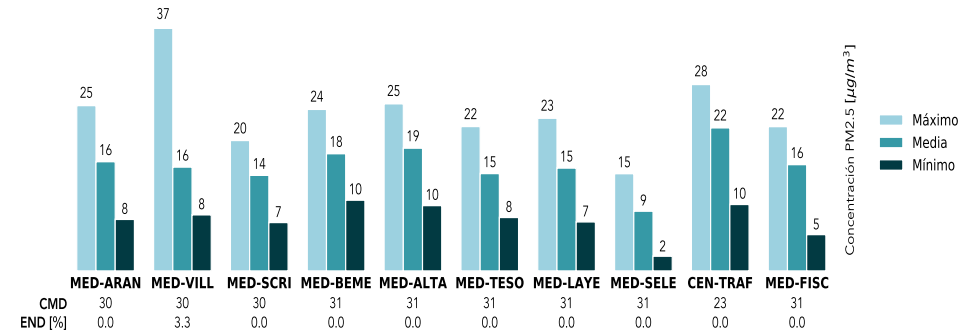
| | MED-ARAN | MED-VILL | MED-SCRI | MED-FISC | CEN-TRAF | MED-BEME | MED-ALTA | MED-PJIC(M) | MED-TESO | MED-LAYE | MED-SELE |
|-------|----------|----------|----------|----------|----------|----------|----------|-------------|----------|----------|----------|
| CMD | 30 | 30 | 30 | 31 | 23 | 31 | 31 | 11 | 31 | 31 | 31 |
| MAX | 25.6 | 37.5 | 20.2 | 22.3 | 28.8 | 25.0 | 25.9 | 26.7 | 22.3 | 23.6 | 15.1 |
| MEDIA | 16.9 | 16.1 | 14.8 | 16.5 | NP | 18.2 | 19.0 | 15.4 | 15.1 | 15.9 | 9.3 |
| MIN | 8.0 | 8.7 | 7.5 | 5.7 | 10.3 | 11.0 | 10.1 | 7.8 | 8.3 | 7.6 | 2.3 |
| NEND | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Porcentaje de registros PM2.5 válidos para el mes de Enero

| | MED-ARAN | MED-VILL | MED-SCRI | MED-FISC | CEN-TRAF | MED-BEME | MED-ALTA | MED-PJIC(M) | MED-TESO | MED-LAYE | MED-SELE |
|-------------|----------|----------|----------|----------|----------|----------|----------|-------------|----------|----------|----------|
| Validos [%] | 95.6 | 96.8 | 97.3 | 99.1 | 82.1 | 99.6 | 97.6 | 100.0 | 98.8 | 99.1 | 96.5 |

Resumen

Estadísticos del mes a partir de promedios diarios



CMD: Cantidad de muestras diarias; NEND: Número de excedencias de la norma diaria. 2. Las estaciones sombreadas son equipos semiautomáticos o manuales. Los demás son equipos automáticos. 3. Norma diaria PM2.5: 50 µg/m³. Resolución 2254 de 2017 del Ministerio de Ambiente y Desarrollo Sostenible

ICA Estaciones PM2.5

| PM2.5 | Enero | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|-------------------------------|----|----|----|----|-----|----|----|----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|----|----|
| | V1 | S2 | D3 | L4 | M5 | Mi6 | J7 | V8 | S9 | D10 | L11 | M12 | Mi13 | J14 | V15 | S16 | D17 | L18 | M19 | Mi20 | J21 | V22 | S23 | D24 | L25 | M26 | Mi27 | J28 | V29 | S30 | D31 | | |
| Estaciones | DE REPRESENTACIÓN POBLACIONAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Medellín - Aranjuez | 26 | 12 | 12 | 12 | 13 | 14 | 17 | | 15 | 10 | 8 | 12 | 15 | 17 | 18 | 16 | 15 | 19 | 19 | 20 | 20 | 21 | 21 | 14 | 16 | 19 | 19 | 24 | 22 | 20 | 21 | | |
| I.E. Ciro Mendía | 20 | 14 | 11 | 12 | 13 | 14 | 18 | 15 | 12 | 8 | 8 | 12 | 12 | 13 | 17 | 14 | 13 | 15 | 15 | 18 | 20 | 19 | 17 | 12 | 14 | 17 | 16 | 18 | 19 | 17 | | | |
| Medellín - San Cristobal | 38 | 16 | 14 | 11 | 13 | 12 | 16 | 18 | 14 | 9 | 9 | 11 | | 16 | 15 | 15 | 15 | 16 | 14 | 15 | 21 | 21 | 20 | 15 | 15 | 16 | 18 | 19 | 19 | 18 | 16 | | |
| Parque Biblioteca Fernando Botero | 20 | 20 | 14 | 14 | 13 | 18 | 21 | 15 | 18 | 11 | 12 | 12 | 15 | 18 | 18 | 19 | 19 | 22 | 23 | 25 | 20 | 20 | 22 | 15 | 12 | 22 | 22 | 20 | 19 | 19 | 24 | | |
| Medellín - Villahermosa | 10 | 8 | 8 | 6 | 9 | 10 | 7 | 7 | 8 | 4 | 2 | 4 | 7 | 9 | 9 | 12 | 9 | 10 | 10 | 12 | 15 | 14 | 12 | 7 | 10 | 8 | 10 | 14 | 14 | 13 | 12 | | |
| Planta de agua potable de EPM | 26 | 18 | 14 | 15 | 15 | 17 | 23 | 16 | 13 | 10 | 11 | 17 | 17 | 19 | 20 | 20 | 19 | 20 | 20 | 23 | 23 | 25 | 23 | 15 | 17 | 22 | 22 | 23 | 20 | 23 | 23 | | |
| Medellín - Belén | 19 | 12 | 10 | 11 | 14 | 13 | 17 | 16 | 12 | 8 | 8 | 11 | 13 | 17 | 15 | 14 | 14 | 16 | 16 | 17 | 21 | 22 | 21 | 12 | 14 | 16 | 15 | 21 | 18 | 19 | 15 | | |
| I.E. Pedro Justo Berrío | 16 | 14 | 8 | 10 | 18 | 15 | 18 | 19 | 11 | 8 | 8 | 12 | 13 | 18 | 16 | 12 | 13 | 14 | 17 | 17 | 23 | 23 | 21 | 14 | 19 | 20 | 16 | 24 | 21 | 21 | 14 | | |
| Medellín - Santa Elena | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Medellín - Santa Elena | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Medellín - Altavista | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| I.E. Pedro Octavio Amado | 16 | 13 | 12 | 17 | 14 | 14 | 18 | 15 | 15 | 6 | 8 | 13 | 17 | 19 | 19 | 16 | 14 | 18 | 20 | 18 | 20 | 20 | 19 | 10 | 19 | 19 | 20 | 22 | 22 | 20 | 18 | | |
| Medellín - El Poblado | 24 | 19 | 18 | 21 | | | 26 | 25 | 22 | 10 | 12 | 20 | 24 | 25 | 26 | 20 | 20 | 26 | 28 | 29 | | | 27 | 16 | 22 | | | | | | | 26 | 24 |
| I.E. INEM sede Santa Catalina | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Medellín - El Poblado | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tanques La Ye EPM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NO POECA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Medellín | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fiscalía General de la Nación | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Medellín - Centro | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Estación Tráfico Centro | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



PM2.5 Material Particulado menor a 2.5µm

Resultados para los demás municipios del Valle de Aburrá

Resumen de promedios mensuales: Concentración en condiciones de referencia.

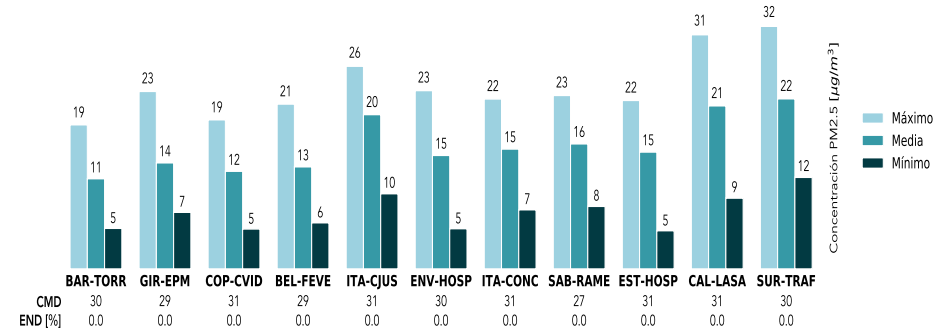
| | BAR-TORR | GIR-EPM | COP-CVID | BEL-FEVE | BEL-J EGA(M) | ITA-CJUS | ENV-HOSP | ITA-CONC | SUR-TRAF | EST-HOSP | CAL-LASA | CAL-JOAR | SAB-RAME |
|-------|----------|---------|----------|----------|--------------|----------|----------|----------|----------|----------|----------|----------|----------|
| CMD | 30 | 29 | 31 | 29 | 11 | 31 | 30 | 31 | 30 | 31 | 31 | 27 | 27 |
| MAX | 19.1 | 23.5 | 19.8 | 21.9 | 27.4 | 26.9 | 23.7 | 22.5 | 32.2 | 22.3 | 31.0 | 28.2 | 23.0 |
| MEDIA | 12.0 | 14.1 | 13.0 | 13.6 | 14.1 | 20.5 | 15.1 | 15.9 | 22.6 | 15.5 | 21.6 | 19.1 | 16.6 |
| MIN | 5.4 | 7.5 | 5.3 | 6.2 | 6.1 | 10.0 | 5.4 | 7.9 | 12.2 | 5.1 | 9.4 | 9.4 | 8.3 |
| NEND | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Porcentaje de registros PM2.5 válidos para el mes de Enero

| | BAR-TORR | GIR-EPM | COP-CVID | BEL-FEVE | BEL-J EGA(M) | ITA-CJUS | ENV-HOSP | ITA-CONC | SUR-TRAF | EST-HOSP | CAL-LASA | CAL-JOAR | SAB-RAME |
|-------------|----------|---------|----------|----------|--------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Validos [%] | 96.0 | 94.9 | 98.9 | 95.6 | 100.0 | 99.2 | 97.3 | 99.2 | 97.3 | 99.1 | 98.9 | 88.2 | 87.6 |

Resumen

Estadísticos del mes a partir de promedios diarios



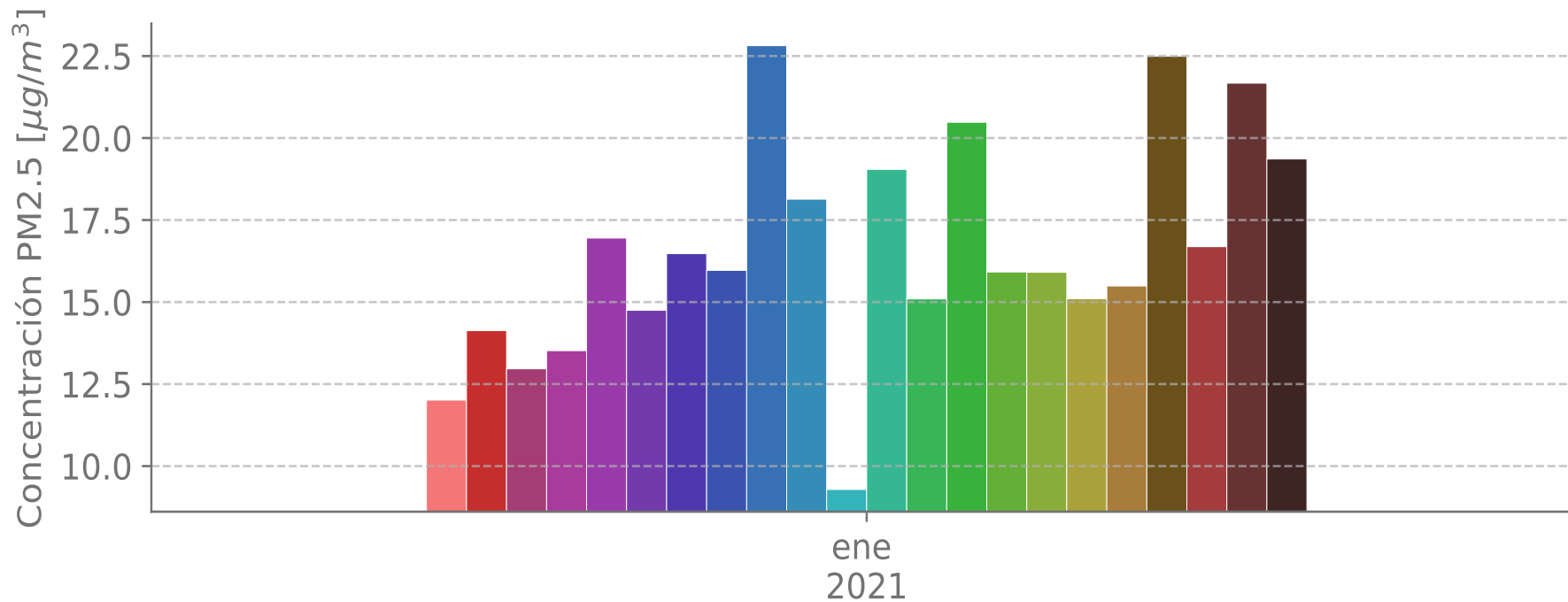
CMD: Cantidad de muestras diarias; NEND: Número de excedencias de la norma diaria. 2. Las estaciones sombreadas son equipos semiautomáticos o manuales. Los demás son equipos automáticos. 3. Norma diaria PM2.5: 50 µg/m³. Resolución 2254 de 2017 del Ministerio de Ambiente y Desarrollo Sostenible

ICA Estaciones PM2.5

| PM2.5 Estaciones | Enero | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|-------------------------------|----|----|----|----|-----|----|----|----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|
| | V1 | S2 | D3 | L4 | M5 | Mi6 | J7 | V8 | S9 | D10 | L11 | M12 | Mi13 | J14 | V15 | S16 | D17 | L18 | M19 | Mi20 | J21 | V22 | S23 | D24 | L25 | M26 | Mi27 | J28 | V29 | S30 | D31 |
| Estaciones | DE REPRESENTACIÓN POBLACIONAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Barbosa | 14 | 9 | 8 | 9 | 8 | 10 | 12 | 9 | 9 | 7 | 5 | 8 | 9 | 11 | 12 | 12 | 12 | | 14 | 16 | 15 | 16 | 13 | 12 | 11 | 15 | 16 | 18 | 17 | 19 | 16 |
| Torre Social | 16 | 9 | 12 | 8 | 10 | 13 | 16 | 14 | 14 | 8 | 8 | 10 | 9 | 10 | 12 | 13 | | | 14 | 14 | 14 | 15 | 17 | 9 | 18 | 21 | 16 | 24 | 23 | 24 | 19 |
| Girardota - Tanques EPM | 14 | 9 | 10 | 8 | 10 | 10 | 14 | 13 | 11 | 6 | 5 | 9 | 10 | 13 | 15 | 12 | 12 | 13 | 14 | 16 | 17 | 16 | 17 | 11 | 14 | 16 | 14 | 20 | 19 | 18 | 16 |
| Copacabana | 22 | 11 | 10 | 8 | 10 | | | 15 | 12 | 6 | 6 | 9 | 12 | 13 | 14 | 12 | 11 | 13 | 14 | 16 | 19 | 17 | 17 | 12 | 15 | 16 | 14 | 17 | 16 | 18 | 17 |
| Ciudadela Educativa de la Vida Bello | 24 | 23 | 16 | 15 | 19 | 18 | 26 | 17 | 22 | 12 | 10 | 16 | 17 | 18 | 22 | 18 | 19 | 21 | 25 | 24 | 25 | 25 | 23 | 14 | 16 | 26 | 27 | 24 | 25 | 24 | |
| I.E. Fernando Vélez | 21 | 15 | 11 | 13 | 14 | 11 | 20 | 15 | 15 | 8 | 8 | 11 | 19 | 15 | 18 | 17 | 15 | 19 | 18 | 19 | 18 | 23 | 22 | 13 | 15 | 16 | 17 | 18 | 18 | 13 | |
| Casa de Justicia | 18 | 11 | 10 | 11 | 15 | 13 | 16 | | 11 | 8 | 5 | 11 | 13 | 17 | 17 | 12 | 14 | 16 | 15 | 18 | 22 | 24 | 18 | 12 | 14 | 17 | 16 | 22 | 20 | 16 | |
| Itagüí | 19 | 12 | 11 | 12 | 15 | 14 | 20 | 15 | 13 | 6 | 5 | 13 | 12 | 15 | 16 | 13 | 13 | 16 | 14 | 16 | 20 | 22 | 21 | 16 | 17 | 16 | 20 | 21 | 20 | 17 | |
| Itagüí | 18 | 15 | 9 | 13 | 15 | 13 | 21 | 16 | 14 | 8 | 8 | 12 | 15 | 18 | | | | | 19 | 21 | 22 | 22 | 23 | 14 | 14 | 18 | 19 | 23 | 20 | 17 | |
| I.E. Concejo Municipal de Itagüí | 23 | 15 | 9 | 15 | 23 | 19 | 28 | 23 | 16 | 14 | 11 | 18 | 17 | 22 | 23 | 16 | 21 | 24 | 28 | 31 | 27 | 28 | 26 | 19 | 20 | 24 | 27 | 29 | 26 | 20 | |
| Envigado | 20 | 14 | 11 | 15 | 19 | 16 | 26 | 22 | 16 | 12 | 9 | 18 | 16 | 22 | 21 | 16 | 18 | 20 | | | | | 25 | 16 | 22 | 23 | 23 | 28 | 25 | 21 | |
| E.S.E Santa Gertrudis | NO POECA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| La Estrella | 18 | 16 | 13 | 22 | 24 | 19 | 32 | 22 | 21 | 12 | 13 | 21 | 24 | 23 | 26 | 22 | 15 | 23 | 29 | 29 | 32 | | 26 | 17 | 20 | 27 | 32 | 28 | 24 | 21 | |
| Hospital | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sabaneta | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| I.E Rafael J. Mejía | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Corp. Universitaria Lasallista | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E U Joaquín Aristizabal | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sabaneta | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Estación Tráfico Sur | 18 | 16 | 13 | 22 | 24 | 19 | 32 | 22 | 21 | 12 | 13 | 21 | 24 | 23 | 26 | 22 | 15 | 23 | 29 | 29 | 32 | | 26 | 17 | 20 | 27 | 32 | 28 | 24 | 21 | |

Resumen Anual

Concentraciones mensuales promedio PM2.5



| | | | | | |
|----------|----------|----------|----------|----------|----------|
| BAR-TORR | MED-ARAN | CEN-TRAF | MED-TESO | ENV-HOSP | SAB-RAME |
| GIR-EPM | MED-SCRI | MED-BEME | ITA-CJUS | EST-HOSP | CAL-LASA |
| COP-CVID | MED-FISC | MED-SELE | MED-LAYE | SUR-TRAF | CAL-JOAR |
| BEL-FEVE | MED-VILL | MED-ALTA | ITA-CONC | | |

PM10 Material Particulado menor a 10µm

Resumen de promedios mensuales: Concentración en condiciones de referencia.

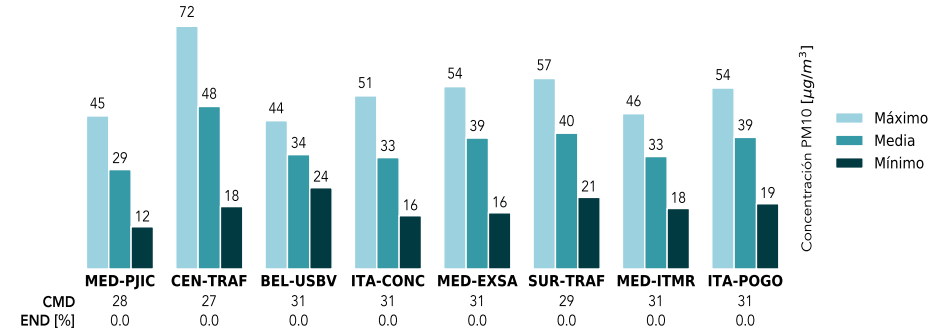
| | BEL-USBV | MED-ITMR | CEN-TRAF | MED-EXSA | MED-PJIC | ITA-POGO | ITA-CONC | SUR-TRAF |
|-------|----------|----------|----------|----------|----------|----------|----------|----------|
| CMD | 31 | 31 | 27 | 31 | 28 | 31 | 31 | 29 |
| MAX | 44.4 | 46.5 | 72.6 | 54.6 | 45.8 | 54.2 | 51.8 | 57.0 |
| MEDIA | 34.3 | 33.7 | 48.7 | 39.2 | 29.8 | 39.4 | 33.4 | 40.7 |
| MIN | 24.4 | 18.2 | 18.7 | 16.9 | 12.7 | 19.6 | 16.0 | 21.5 |
| NEND | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Porcentaje de registros estaciones automaticas PM10 válidos para el mes de Enero

| | BEL-USBV | MED-ITMR | CEN-TRAF | MED-EXSA | MED-PJIC | ITA-POGO | ITA-CONC | SUR-TRAF |
|-------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Validos [%] | 98.9 | 97.7 | 83.7 | 98.8 | 87.2 | 99.3 | 91.9 | 88.3 |

Resumen

Estadísticos del mes a partir de promedios diarios



CMD: Cantidad de muestras diarias; NEND: Número de excedencias de la norma diaria. 2. Las estaciones sombreadas son equipos semiautomáticos o manuales. Los demás son equipos automáticos. 3. Norma diaria PM10: 100 µg/m3. Resolución 2254 de 2017 del Ministerio de Ambiente y Desarrollo Sostenible

ICA Estaciones PM10

| PM10 Estaciones | Enero | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|-------|----|----|----|----|-----|----|----|----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|--|--|
| | V1 | S2 | D3 | L4 | M5 | Mi6 | J7 | V8 | S9 | D10 | L11 | M12 | Mi13 | J14 | V15 | S16 | D17 | L18 | M19 | Mi20 | J21 | V22 | S23 | D24 | L25 | M26 | Mi27 | J28 | V29 | S30 | D31 | | |
| Bello | 31 | 30 | 27 | 29 | 36 | 41 | 44 | 34 | 32 | 24 | 24 | 30 | 33 | 32 | 34 | 33 | 27 | 36 | 36 | 41 | 44 | 39 | 38 | 26 | 34 | 35 | 34 | 43 | 38 | 39 | 36 | | |
| U. San Buenaventura | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Medellín | 34 | 25 | 23 | 29 | 32 | 41 | 40 | 32 | 28 | 18 | 18 | 29 | 38 | 31 | 35 | 30 | 27 | 35 | 35 | 41 | 43 | 41 | 38 | 22 | 33 | 36 | 42 | 46 | 44 | 40 | 37 | | |
| ITM Robledo | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Medellín - Centro | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Estación Tráfico Centro | 33 | 29 | 31 | 48 | | 56 | 50 | 36 | 19 | 22 | 42 | 52 | 50 | 57 | 40 | 35 | 58 | 65 | 65 | | | 61 | 33 | 58 | 62 | 62 | 73 | 71 | 59 | 46 | | | |
| Medellín - Centro | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Exito San Antonio | 29 | 27 | 29 | 36 | 38 | 38 | 47 | 38 | 34 | 18 | 17 | 34 | 38 | 44 | 45 | 34 | 30 | 44 | 46 | 47 | 50 | 52 | 50 | 27 | 39 | 42 | 50 | 55 | 53 | 45 | 41 | | |
| Medellín | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Politécnico JIC | 22 | 17 | 17 | 23 | 29 | 27 | 36 | 29 | 26 | | 13 | 26 | 23 | 34 | 31 | 27 | 24 | 30 | 32 | 35 | 40 | 39 | 36 | | 30 | 34 | 34 | 46 | 40 | 34 | | | |
| Itagüí | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Estación de Policía Los Gómez | 35 | 42 | 28 | 39 | 31 | 35 | 47 | 28 | 46 | 20 | 23 | 36 | 33 | 39 | 43 | 41 | 40 | 40 | 54 | 48 | 41 | 47 | 44 | 31 | 32 | 38 | 54 | 44 | 46 | 43 | 53 | | |
| Itagüí | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| I.E. Concejo Municipal de Itagüí | 34 | 26 | 20 | 29 | 29 | 27 | 40 | 33 | 26 | 19 | 16 | 29 | 39 | 32 | 37 | 40 | 28 | 52 | 38 | 41 | 39 | 48 | 42 | 24 | 32 | 34 | 38 | 40 | 34 | 40 | 28 | | |
| Sabaneta | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Estación Tráfico Sur | 26 | 28 | 24 | 38 | 40 | 34 | 52 | 40 | 37 | 21 | 22 | 46 | 47 | 39 | 45 | 44 | 29 | 42 | 57 | 52 | 52 | | 47 | | 37 | 48 | 55 | 48 | 46 | 43 | 37 | | |

PM10 Estaciones Manuales

Porcentaje de registros PM10 válidos para el mes de Enero

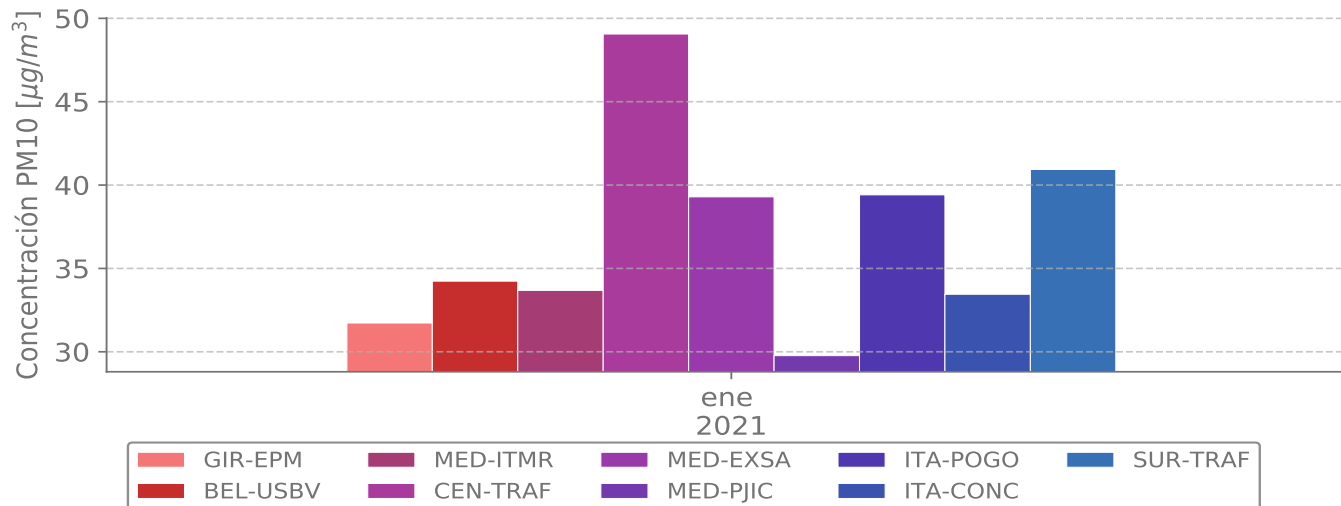
| | BAR- H SVP(M) | COP- H SMA(M) | MED- C ORA(M) | MED- M IRA(M) | MED- P JIC(M) | ITA- PT AR(M) | ITA- PO GO(M) | EST- M AGO(M) | SUR- T RAF(M) | CAL- J OAR(M) |
|-------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Validos [%] | 81.8 | 90.9 | 90.9 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

Resumen de promedios mensuales: Concentración en condiciones de referencia.

| | BAR- H SVP(M) | COP- H SMA(M) | MED- C ORA(M) | MED- M IRA(M) | MED- P JIC(M) | ITA- PT AR(M) | ITA- PO GO(M) | EST- M AGO(M) | SUR- T RAF(M) | CAL- J OAR(M) |
|-------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| CMD | 9 | 10 | 10 | 11 | 11 | 11 | 11 | 11 | 11 | 11 |
| MAX | 30.4 | 36.1 | 36.7 | 20.7 | 39.1 | 35.1 | 51.2 | 48.5 | 67.0 | 44.5 |
| MEDIA | 21.0 | 23.1 | 25.0 | 13.6 | 29.5 | 25.3 | 35.2 | 35.2 | 42.1 | 31.3 |
| MIN | 11.5 | 16.4 | 13.6 | 8.0 | 12.5 | 6.3 | 13.4 | 9.4 | 12.9 | 10.7 |
| NEND | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Resumen Anual

Concentraciones mensuales promedio PM10



Ozono

Resumen de promedios mensuales: Concentración en condiciones de referencia.

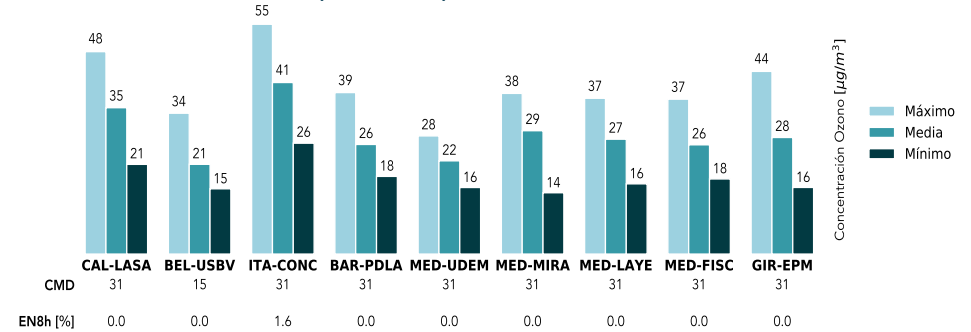
| | BAR-PDLA | GIR-EPM | BEL-USBV | MED-FISC | MED-UDEM | MED-MIRA | MED-LAYE | ITA-CONC | CAL-LASA |
|-------|----------|---------|----------|----------|----------|----------|----------|----------|----------|
| MEDIA | 26.6 | 28.2 | NP | 26.4 | 22.5 | 29.9 | 27.8 | 41.6 | 35.4 |
| VM8H | 65.3 | 71.6 | 62.3 | 86.1 | 63.5 | 90.6 | 97.3 | 114.3 | 99.9 |
| NEN8H | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 0 |

Porcentaje de registros Ozono válidos para el mes de Enero

| | BAR-PDLA | GIR-EPM | BEL-USBV | MED-FISC | MED-UDEM | MED-MIRA | MED-LAYE | ITA-CONC | CAL-LASA |
|-------------|----------|---------|----------|----------|----------|----------|----------|----------|----------|
| Validos [%] | 99.6 | 99.6 | 53.8 | 99.6 | 100.0 | 99.6 | 99.9 | 99.6 | 99.7 |

Resumen

Estadísticos del mes a partir de promedios diarios



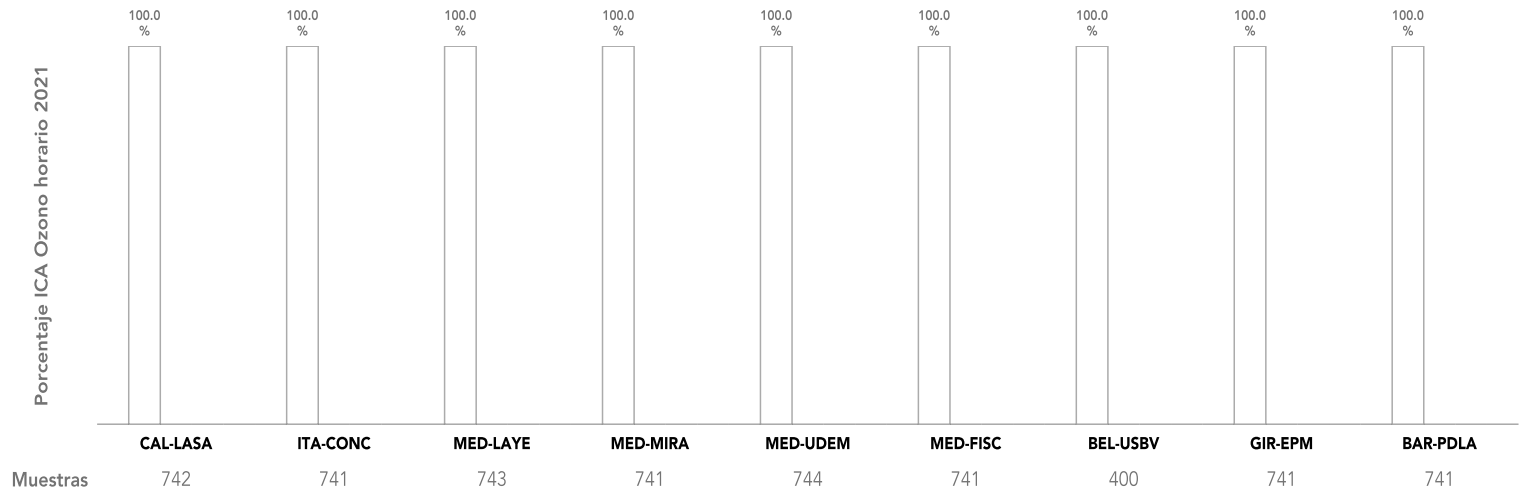
Nota 1: Límites según la Norma Nacional (Resolución 2254 de 2017 del Ministerio de Ambiente y Desarrollo Sostenible: Octohoraria: 100 µg/m3. Nota 2: NVSN8H: Número de Veces que Supera la Norma Octohoraria (100 µg/m3).

ICA

Estaciones Ozono

Resolución Horaria

Nota 2: Las concentraciones obtenidas no tienen punto de corte para ninguno de los índices establecidos.

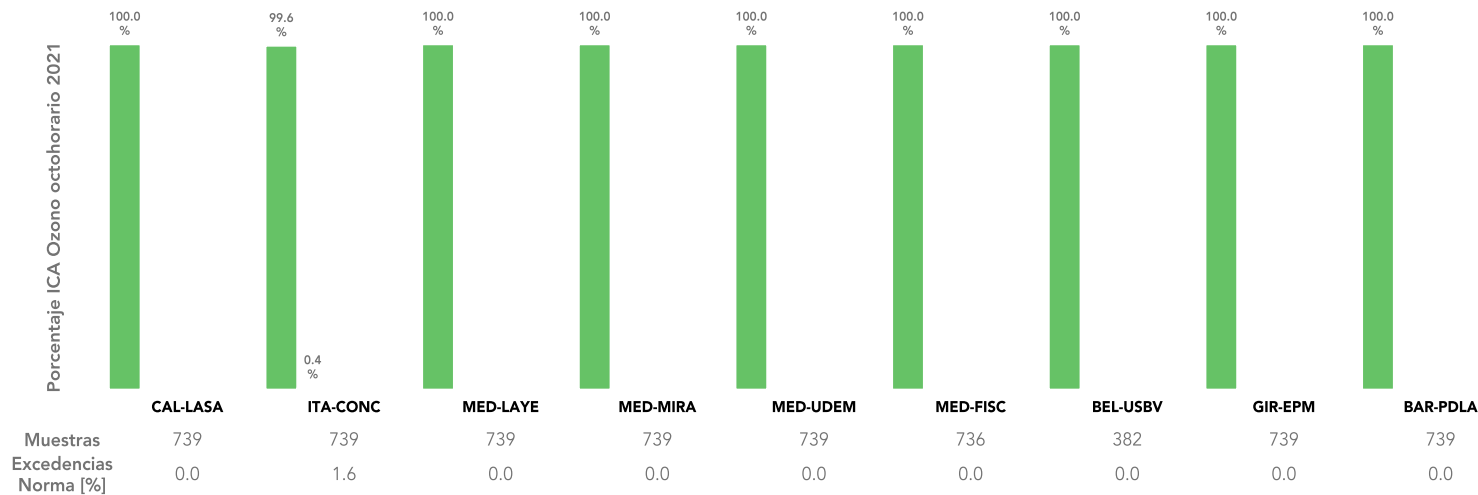




ICA

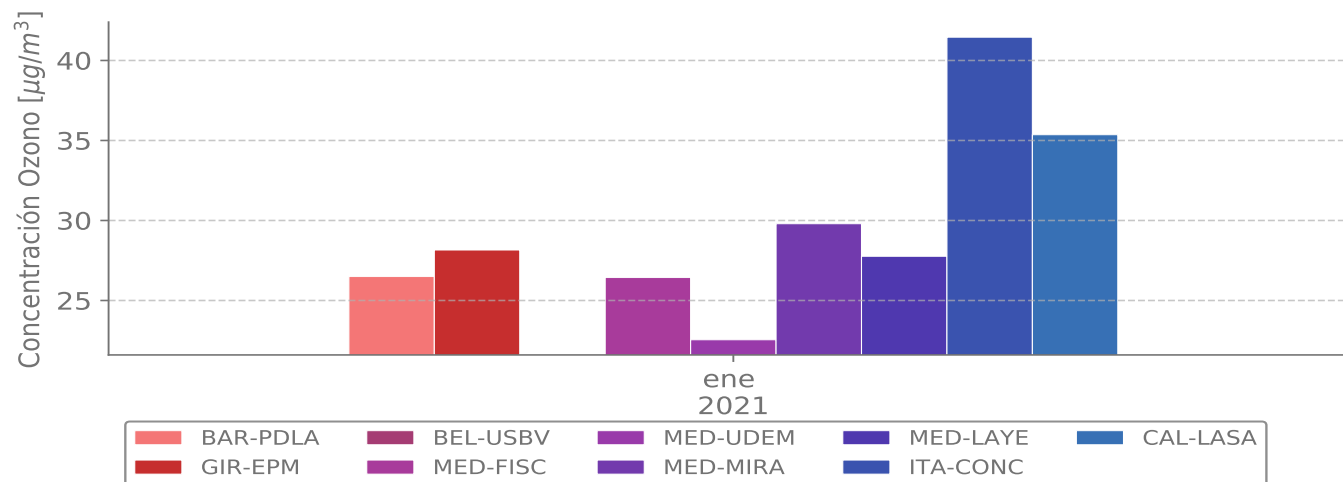
Estaciones Ozono

Resolución Octohoraria



Resumen Anual

Concentraciones mensuales promedio Ozono



NO₂ Dióxido de Nitrógeno

Resumen de promedios mensuales: Concentración en condiciones de referencia.

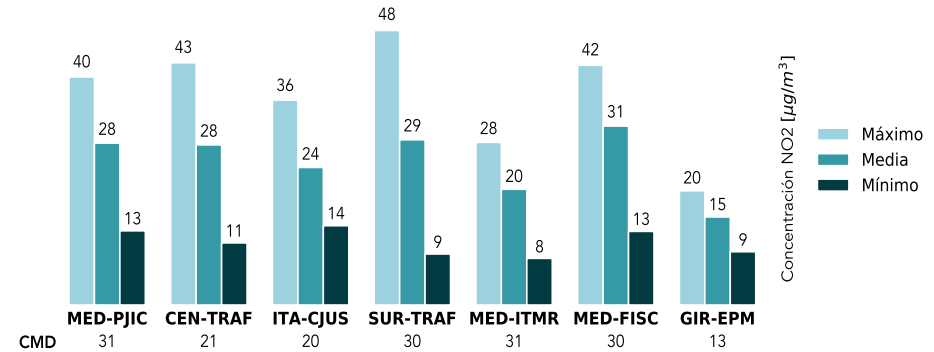
| | GIR-EPM | MED-ITMR | MED-FISC | CEN-TRAF | MED-PJIC | ITA-CJUS | SUR-TRAF |
|-------|---------|----------|----------|----------|----------|----------|----------|
| MEDIA | NP | 20.6 | 31.5 | 29.5 | 28.8 | 23.6 | 29.5 |
| VM1H | 53.9 | 89.6 | 70.0 | 87.1 | 81.7 | 60.2 | 87.2 |
| NEN1H | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Porcentaje de registros NO₂ válidos para el mes de Enero

| | GIR-EPM | MED-ITMR | MED-FISC | CEN-TRAF | MED-PJIC | ITA-CJUS | SUR-TRAF |
|-------------|---------|----------|----------|----------|----------|----------|----------|
| Validos [%] | 62.8 | 97.7 | 96.2 | 76.7 | 97.8 | 77.4 | 97.0 |

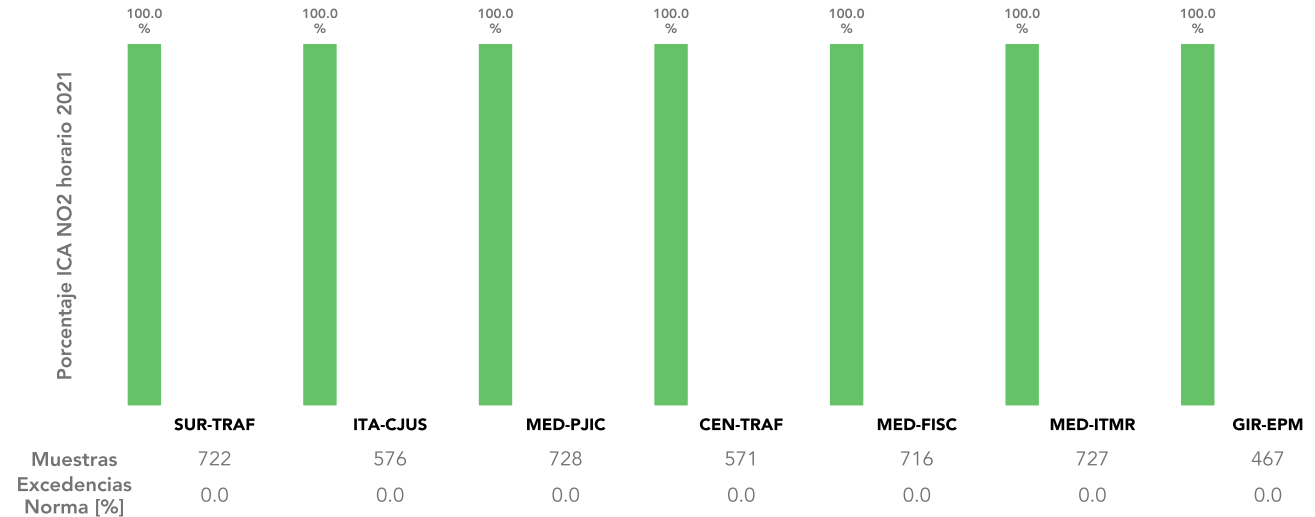
Resumen

Estadísticos del mes a partir de promedios diarios



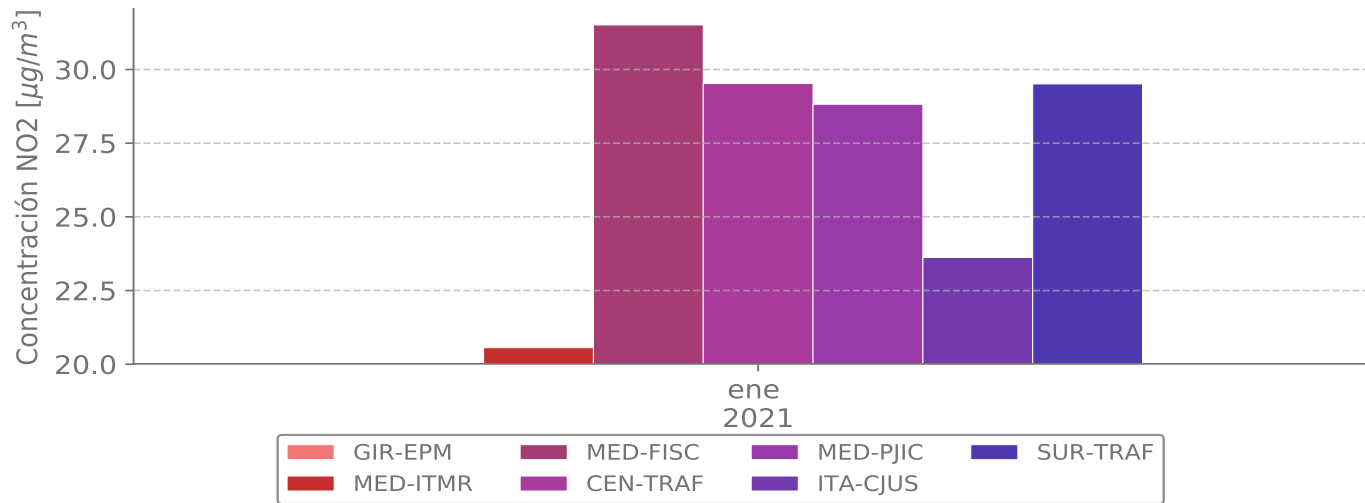
NO₂: Anual (60 µg/m³), 1 hora (200 µg/m³). Resolución 2254 de 2017 del Ministerio de Ambiente y Desarrollo Sostenible

ICA Estaciones NO₂



Resumen Anual

Concentraciones mensuales promedio NO₂



CO Monóxido de Carbono

Resumen de promedios mensuales: Concentración en condiciones de referencia.

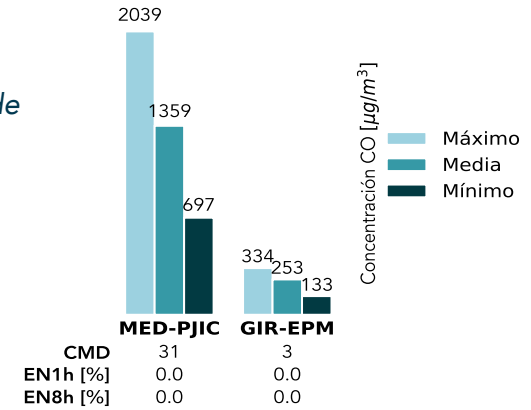
| | GIR-EPM | MED-PJIC |
|-------|---------|----------|
| MEDIA | NP | 1355.4 |
| VM1H | 599.8 | 4204.0 |
| NEN1H | 0 | 0 |
| VM8H | 383.7 | 2521.0 |
| NEN8H | 0 | 0 |

Porcentaje de registros CO válidos para el mes de Enero

| | GIR-EPM | MED-PJIC |
|-------------|---------|----------|
| Validos [%] | 10.2 | 98.1 |

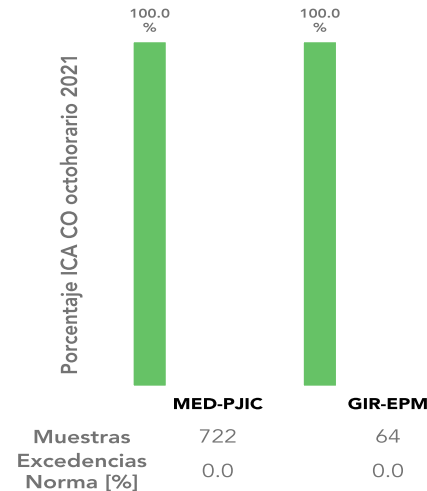
Resumen

Estadísticos del mes a partir de promedios diarios



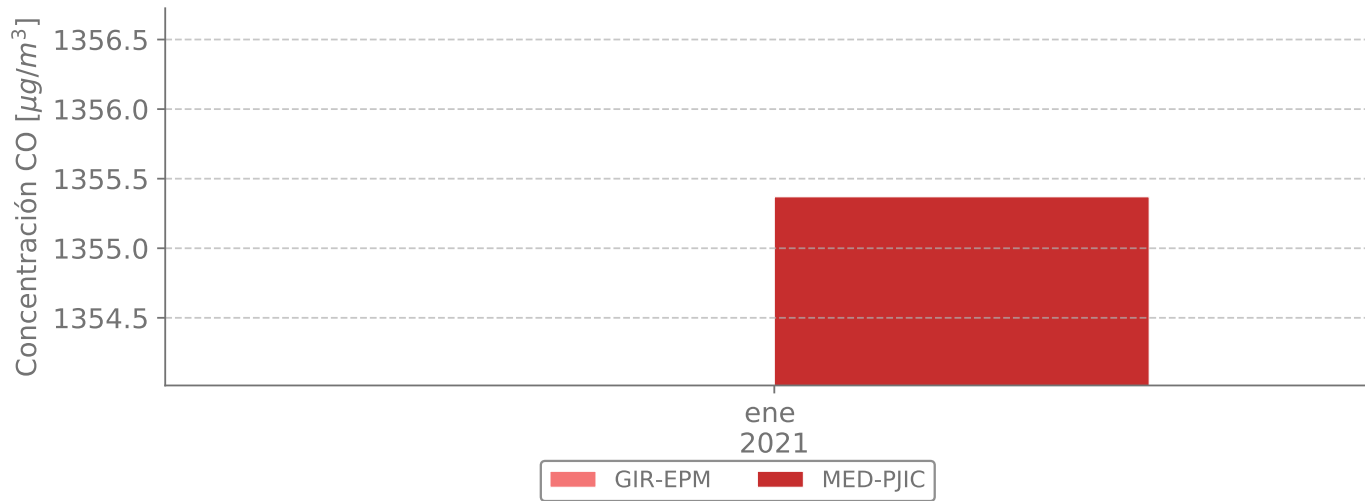
Limites según la Norma Nacional (Resolución 2254 de 2017 del Ministerio de Ambiente y Desarrollo Sostenible). Horaria: 35.000 µg/m3. Octohoraria: 5.000 µg/m3 VM1H: Concentración máxima horaria. VM8H: Concentración máxima octohoraria. NVSN1H: Número de Veces que Supera la Norma Horaria. NVSN8H: Número de Veces que Supera la Norma Octohoraria.

ICA Estaciones CO



Resumen Anual

Concentraciones mensuales promedio CO



SO₂ Dióxido de Azufre

Resumen de promedios mensuales: Concentración en condiciones de referencia.

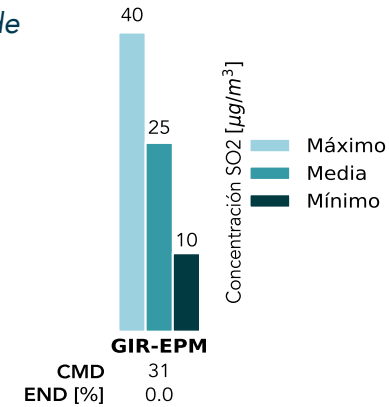
| | GIR-EPM |
|-------|---------|
| CMD | 31 |
| MAX | 41.0 |
| MEDIA | 25.9 |
| MIN | 10.7 |
| NEND | 0 |
| VM1H | 165.8 |
| NEN1H | 13 |

Porcentaje de registros SO₂ válidos para el mes de Enero

| | GIR-EPM |
|-------------|---------|
| Validos [%] | 99.9 |

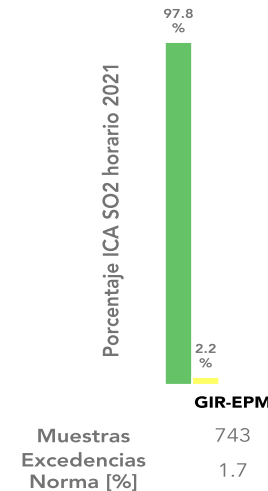
Resumen

Estadísticos del mes a partir de promedios diarios



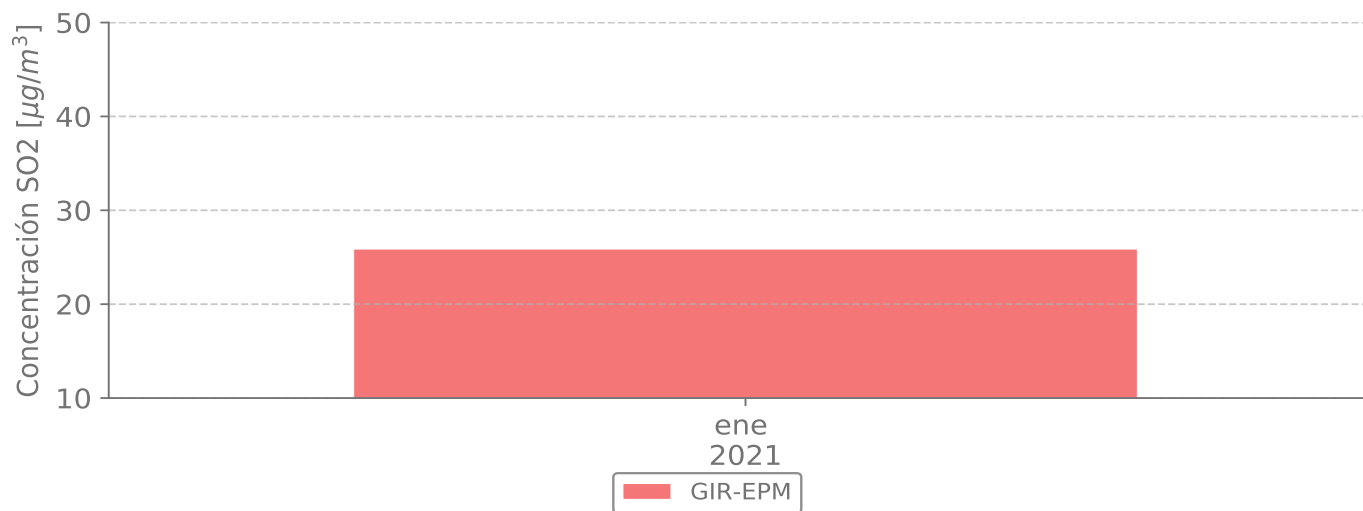
SO₂: 24 horas (50 µg/m³), 1 horas (100 µg/m³). Resolución 2254 de 2017 del Ministerio de Ambiente y Desarrollo Sostenible

ICA Estaciones SO₂



Resumen Anual

Concentraciones mensuales promedio SO₂





Ruido Ambiental

| | CEN-TRAF | GIR-BOTJ | ITA-ACUA | ITA-SAMA | MED-PJIR | MED-SIAT | MED-ZOOL | SAB-SEMS |
|----------------|----------|----------|----------|----------|----------|----------|----------|----------|
| CM,d | 31 | 31 | 26 | 31 | 21 | 31 | 31 | 31 |
| Media,d[dB(A)] | 77.78 | 70.69 | 69.92 | 76.51 | 69.34 | 64.54 | 74.43 | 71.80 |
| CM,n | 31 | 31 | 26 | 31 | 21 | 31 | 31 | 31 |
| Media,n[dB(A)] | 72.56 | 65.54 | 65.00 | 71.00 | 66.21 | 61.15 | 69.59 | 66.80 |

Nivel de presión sonora corregido continuo equivalente promedio diurno y nocturno (Media,d y Media,n), calculadas a partir de la cantidad de muestras diurna y nocturna (CM,d y CM,n).

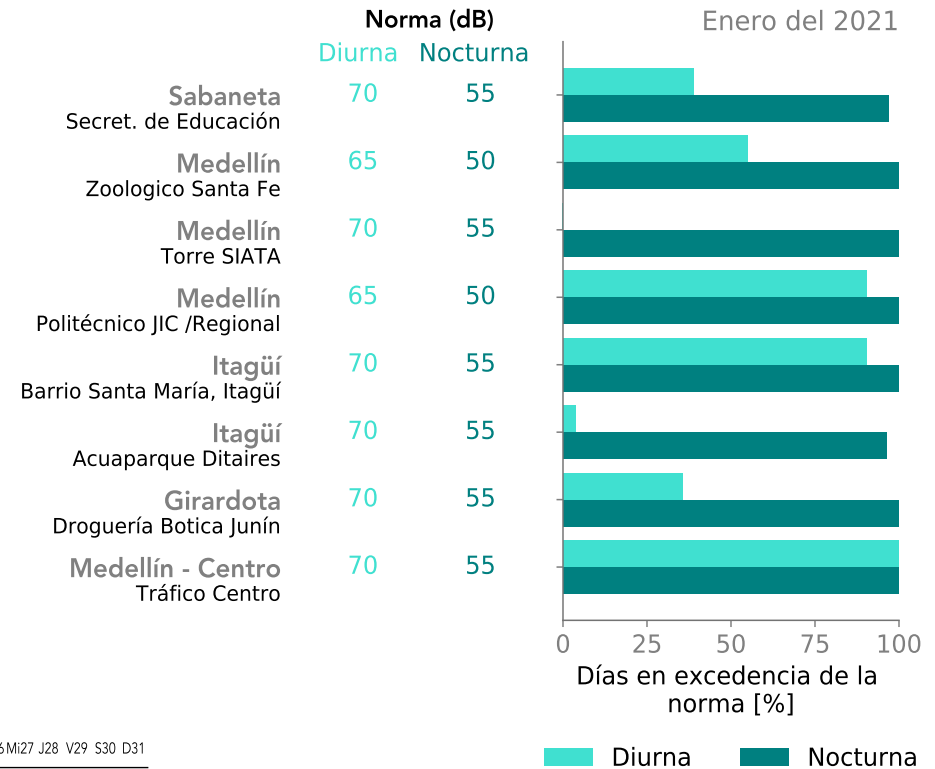
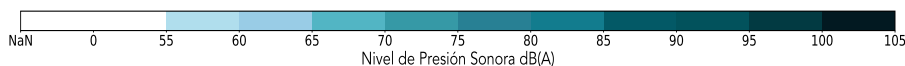
Nivel Día Noche

Enero del 2021

V1 S2 D3 L4 M5 Mi6 J7 V8 S9 D10 L11 M12Mi13 J14 V15 S16 D17 L18 M19Mi20 J21 V22 S23 D24 L25 M26Mi27 J28 V29 S30 D31

Estaciones

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Sría. Educ. Sabaneta | 71 | 60 | 84 | 66 | 75 | 81 | 65 | 66 | 70 | 67 | 75 | 71 | 72 | 71 | 72 | 70 | 68 | 73 | 71 | 72 | 72 | 73 | 73 | 71 | 71 | 71 | 73 | 72 | 75 | 75 | 72 | |
| Zoológico Santa Fe | 64 | 70 | 64 | 75 | 67 | 86 | 82 | 75 | 65 | 84 | 83 | 75 | 74 | 75 | 73 | 66 | 67 | 73 | 72 | 73 | 73 | 74 | 74 | 79 | 69 | 73 | 71 | 71 | 73 | 71 | 73 | |
| Torre SIATA | 66 | 65 | 67 | 67 | 68 | 67 | 72 | 70 | 70 | 64 | 68 | 69 | 68 | 68 | 67 | 66 | 65 | 67 | 69 | 69 | 68 | 68 | 68 | 66 | 68 | 69 | 68 | 69 | 69 | 69 | 69 | |
| Politécnico JIC-Regional | 71 | 69 | 72 | 73 | 74 | | | | | | 74 | 74 | 73 | 73 | 74 | 69 | 73 | 75 | 73 | 73 | | | | | 73 | 74 | 73 | 74 | 74 | 72 | | |
| Santa María | 78 | 73 | 75 | 80 | 78 | 87 | 83 | 76 | 75 | 75 | 81 | 77 | 77 | 77 | 77 | 75 | 74 | 77 | 77 | 77 | 77 | 78 | 77 | 76 | 78 | 77 | 78 | 78 | 78 | 77 | | |
| Acuaparque Ditaíres | 70 | 61 | 67 | 64 | 64 | 80 | 70 | 64 | 62 | 73 | 82 | 66 | 70 | | | | | 72 | 68 | 66 | 68 | 72 | 71 | 64 | 65 | 69 | 69 | 72 | 73 | 70 | | |
| Droguería Botica Junín | 75 | 67 | 71 | 72 | 71 | 72 | 73 | 77 | 71 | 76 | 75 | 72 | 72 | 71 | 76 | 70 | 69 | 71 | 72 | 71 | 74 | 72 | 72 | 73 | 73 | 73 | 72 | 72 | 72 | 75 | 72 | |
| Estación Tráfico Centro | 77 | 75 | 80 | 81 | 81 | 81 | 81 | 80 | 77 | 78 | 76 | 81 | 81 | 81 | 81 | 80 | 77 | 76 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 79 | 80 | 80 | 80 | 80 | 82 | 79 |



Nota: La normativa de ruido ambiental es específica para cada subsector definido en la Resolución 627 del 2006 del actual Ministerio de Ambiente y Desarrollo Sostenible.

1. BAR-PDLA

2. GIR-EPM

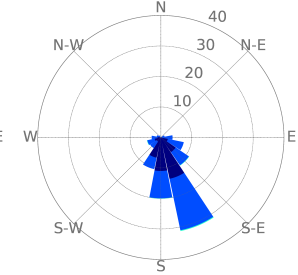
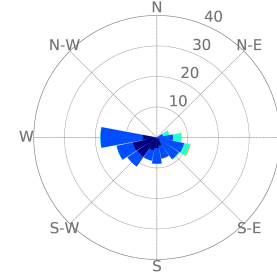
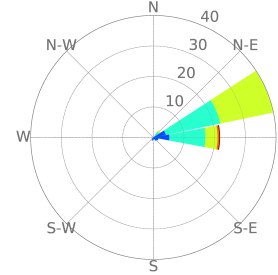
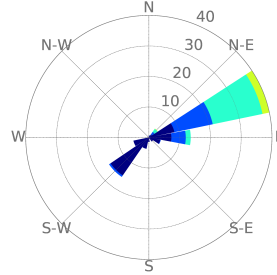
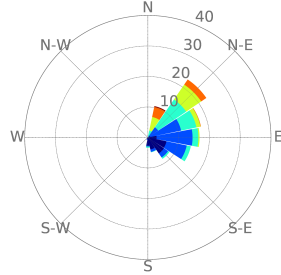
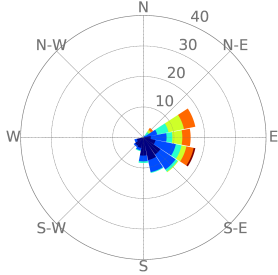
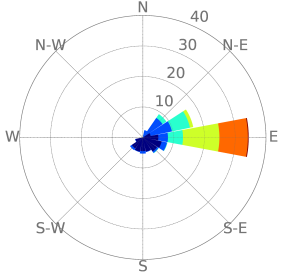
3. COP-CVID

4. BEL-USBV

5. MED-SELE

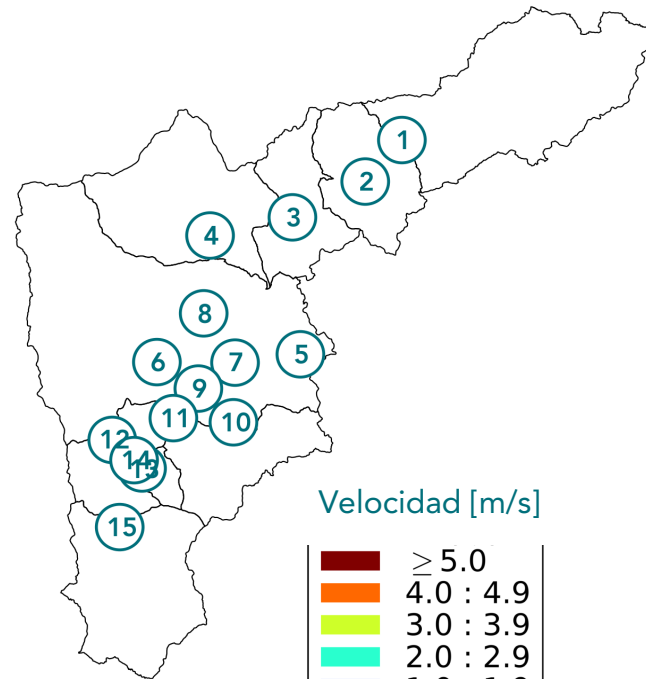
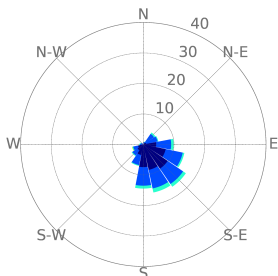
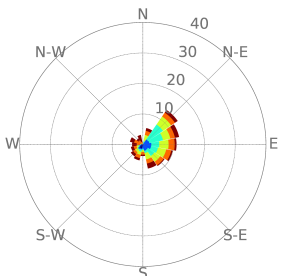
6. MED-UDEM

7. MED-MIRA

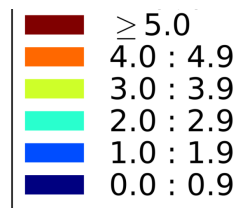


8. MED-FISC

9. MED-PJIC

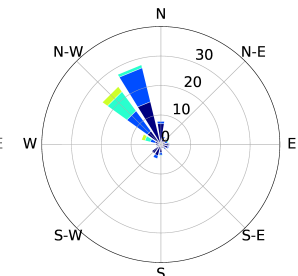
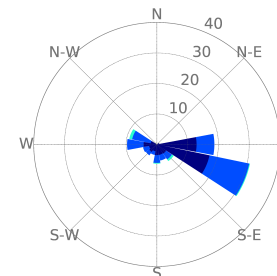


Velocidad [m/s]



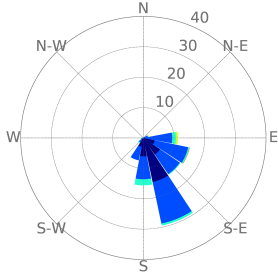
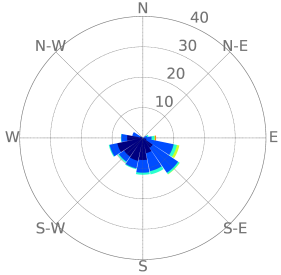
10. MED-LAYE

11. ITA-CJUS



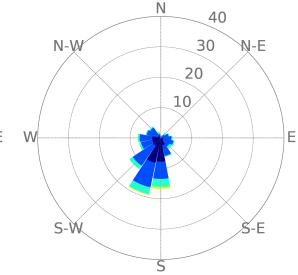
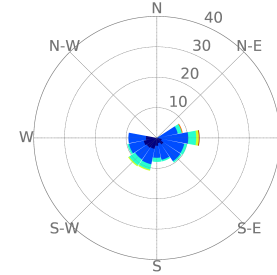
12. ITA-CONC

13. SAB-RAME



14. SUR-TRAF

15. CAL-LASA



Vientos

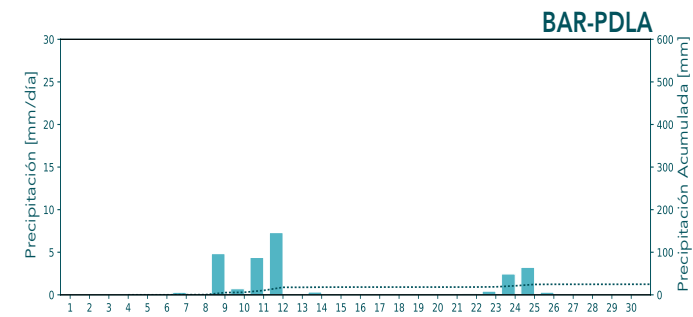
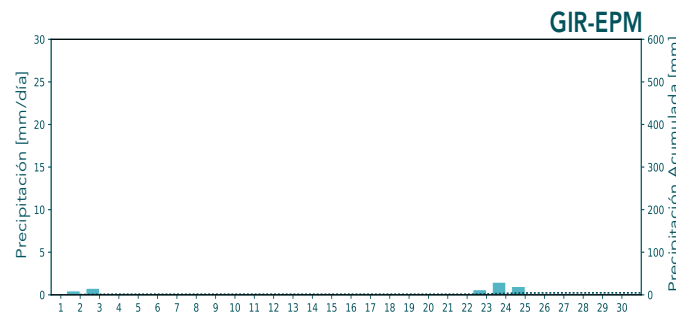
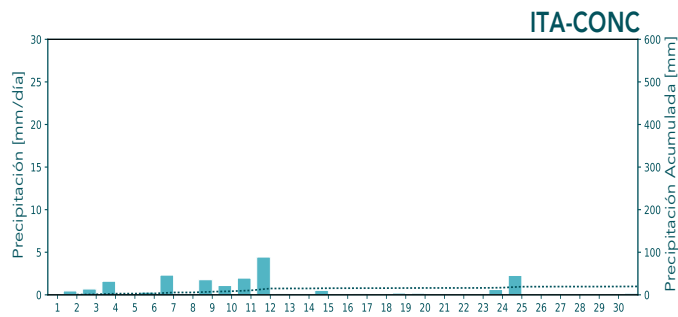
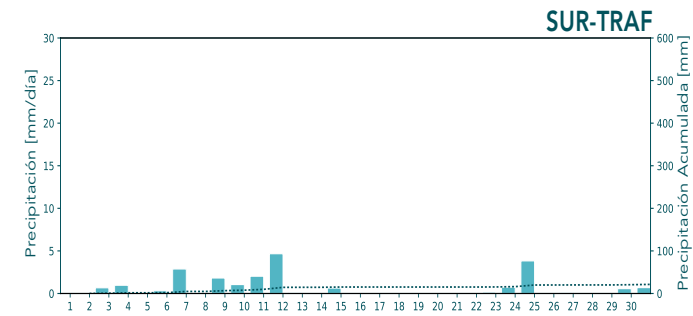
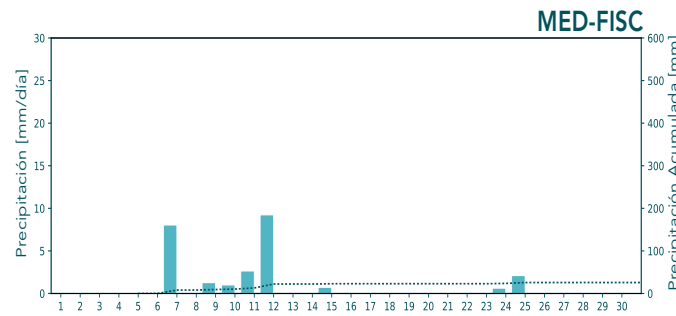
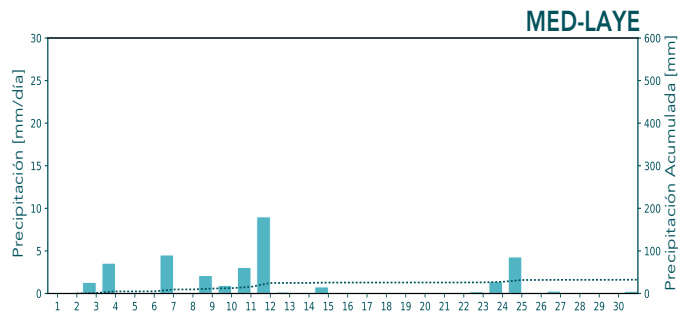
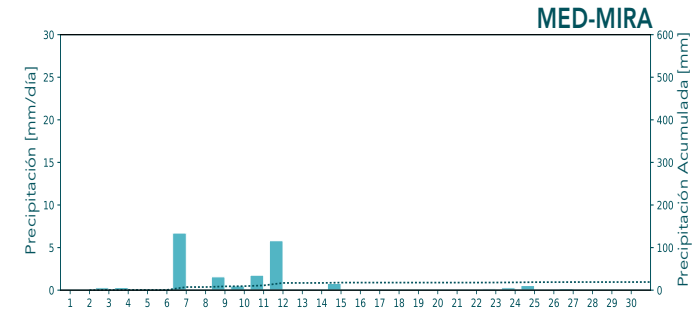
Promedios Mensuales



Precipitación

Acumulados Diarios

| | BAR-PDLA | GIR-EPM | COP-CVID | MED-FISC | MED-SELE | MED-UDEM | MED-MIRA | MED-PJIC | MED-LAYE | ITA-CONC | SUR-TRAF | SAB-RAME | CAL-LASA |
|---------|----------|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Mensual | 29.7 | 8.3 | 54.1 | 26.1 | 14.2 | 23.6 | 19.1 | 38.3 | 32.6 | 19.7 | 23.5 | 38.5 | 42.4 |





Precipitación

