



Sistema de Informação de Qualidade do Ar

RELATÓRIO MENSAL DADOS

6 - ALTO TIETE - Parque D. Pedro II

MP10 (Partículas Inaláveis)

Unidade de Medida: micrograma por metro cúbico (µg/m³)

Janeiro / 2017

| Dias / Hora | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|-------------|----|----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 1 | 51 | 93 | 100 | 71 | 32 | 33 | 37 | 31 | 15 | 9 | 13 | 5 | 11 | 8 | 8 | 8 | 13 | 30 | 9 | 7 | 16 | 14 | 18 | 16 |
| 2 | 12 | 14 | 14 | 17 | 12 | 11 | 11 | 16 | 18 | 10 | 14 | 15 | 14 | 11 | 13 | 9 | 17 | 31 | 20 | 13 | 14 | 12 | 14 | 14 |
| 3 | 10 | 29 | 21 | 14 | 15 | 20 | 26 | 32 | 26 | 30 | 36 | 39 | 28 | 27 | 23 | 33 | 38 | 42 | 29 | 19 | 12 | 14 | 11 | 14 |
| 4 | 9 | 20 | 20 | 14 | 25 | 31 | 23 | 18 | 29 | 24 | 17 | 15 | 12 | 8 | 20 | 15 | 11 | 25 | 31 | 24 | 23 | 25 | 32 | 24 |
| 5 | 25 | 24 | 18 | 17 | 28 | 24 | 30 | 26 | 29 | 23 | 16 | 22 | 15 | 21 | - | 40 | 31 | 23 | 19 | 13 | 16 | 18 | 14 | 20 |
| 6 | 24 | 24 | 16 | 21 | 19 | 24 | 24 | 31 | 19 | 25 | 23 | 20 | 13 | 22 | 17 | 27 | 11 | 12 | 16 | 11 | 10 | 11 | 9 | 9 |
| 7 | 6 | 15 | 9 | 9 | 4 | 7 | 14 | 5 | 11 | 15 | 23 | 32 | 37 | 34 | 27 | 26 | 26 | 18 | 8 | 9 | 10 | 17 | 21 | 25 |
| 8 | 24 | 24 | 19 | 22 | 24 | 23 | 14 | 16 | 17 | 13 | 9 | 17 | 15 | 10 | 10 | 19 | 29 | 14 | 14 | 23 | 21 | 24 | 31 | 29 |
| 9 | 24 | 22 | 25 | 21 | 20 | 23 | 29 | 31 | 27 | 9 | 14 | 28 | 20 | 16 | 22 | 18 | 28 | 25 | 23 | 36 | 21 | 8 | 9 | 15 |
| 10 | 4 | 7 | 7 | 7 | 14 | 8 | 8 | 15 | 20 | 16 | 20 | 20 | 22 | 13 | 11 | 20 | 14 | 12 | 19 | 15 | 19 | 12 | 19 | 23 |
| 11 | 27 | 32 | 26 | 20 | 16 | 25 | 32 | 25 | 30 | 22 | 20 | 17 | 18 | 19 | 27 | 35 | 37 | 21 | 16 | 11 | 9 | 11 | 11 | 10 |
| 12 | 6 | 21 | 26 | 19 | 20 | 20 | 19 | 20 | 26 | 19 | 22 | 21 | 15 | 12 | 2 | 5 | 14 | 12 | 3 | 14 | 5 | 8 | 10 | 7 |
| 13 | 9 | 6 | 8 | 15 | 10 | 12 | 12 | 12 | 9 | 13 | 10 | 12 | 10 | 19 | 27 | 32 | 20 | 29 | 40 | 32 | 27 | 24 | 23 | 11 |
| 14 | 17 | 22 | 16 | 12 | 21 | 19 | 20 | 14 | 16 | 13 | 15 | 19 | 16 | 18 | 15 | 8 | 23 | 54 | 53 | 27 | 16 | 19 | 17 | 12 |
| 15 | 8 | 17 | 19 | 23 | 22 | 21 | 25 | 22 | 18 | 19 | 23 | 14 | 11 | 9 | 2 | 31 | 36 | 22 | 32 | 36 | 38 | 21 | 15 | 11 |
| 16 | 5 | 11 | 9 | 3 | 7 | 12 | 8 | 9 | 11 | 7 | 8 | 7 | 6 | 8 | 16 | 11 | 12 | 15 | 15 | 27 | 19 | 24 | 12 | 9 |
| 17 | 5 | 4 | 8 | 3 | 12 | 7 | 17 | 14 | 7 | 10 | 10 | 5 | 15 | 7 | 2 | 7 | 3 | 16 | 10 | 11 | 13 | 15 | 17 | 19 |
| 18 | 15 | 8 | 10 | 7 | 9 | 4 | 9 | 8 | 12 | 15 | 10 | 12 | 10 | 12 | 14 | 8 | 11 | 14 | 12 | 19 | 25 | 25 | 21 | 7 |
| 19 | 6 | 14 | 9 | 9 | 11 | 15 | 8 | 19 | 12 | 17 | 18 | 16 | 21 | 11 | 26 | 15 | 9 | 10 | 10 | 13 | 17 | 11 | 19 | 17 |
| 20 | 21 | 25 | 15 | 20 | 20 | 21 | 17 | 26 | 21 | 27 | 18 | 21 | 20 | 7 | 6 | 8 | 16 | 18 | 31 | 28 | 14 | 8 | 14 | 24 |
| 21 | 21 | 22 | 24 | 12 | 14 | 15 | 17 | 13 | 13 | 17 | 16 | 20 | 14 | 3 | 20 | 23 | 17 | 20 | 8 | 7 | 6 | 15 | 12 | 7 |
| 22 | 8 | 6 | 8 | 8 | 6 | 8 | 15 | 7 | 14 | 8 | 12 | 15 | 16 | 17 | 13 | 12 | 5 | 6 | 11 | 10 | 18 | 20 | 25 | 12 |
| 23 | 13 | 10 | 21 | 23 | 22 | 17 | 24 | 24 | 30 | 27 | 2 | 7 | 16 | 14 | 16 | 15 | 18 | 18 | 15 | 24 | 27 | 19 | 26 | 17 |
| 24 | 26 | 26 | 28 | 28 | 34 | 28 | 28 | 33 | 21 | 17 | 13 | 18 | 14 | 11 | 14 | 19 | 20 | 22 | 40 | 15 | 35 | 25 | 27 | 27 |
| 25 | 24 | 34 | 26 | 16 | 12 | 10 | 10 | 11 | 8 | 11 | 9 | 15 | 17 | 4 | 9 | 7 | 15 | 22 | 12 | 13 | 9 | 10 | 17 | 18 |
| 26 | 15 | 10 | 8 | 11 | 15 | 20 | 19 | 17 | 21 | 13 | 15 | 13 | 19 | 26 | 9 | 10 | 6 | 17 | 14 | 17 | 19 | 19 | 23 | 19 |
| 27 | 11 | 25 | 28 | 23 | 25 | 21 | 29 | 29 | 38 | 45 | 19 | 21 | 19 | 20 | 18 | 18 | 10 | 7 | 18 | 10 | 13 | 13 | 13 | 3 |
| 28 | 8 | 13 | 22 | 14 | 7 | 16 | 18 | 24 | 13 | 14 | 19 | 18 | 25 | 19 | 21 | 53 | 39 | 27 | 25 | 16 | 7 | 6 | 9 | 15 |
| 29 | 21 | 18 | 18 | 19 | 14 | 12 | 14 | 15 | 13 | 15 | 20 | 24 | 26 | 17 | 11 | 15 | 35 | 44 | 42 | 35 | 28 | 24 | 19 | 24 |
| 30 | 27 | 29 | 26 | 18 | 25 | 17 | 16 | 25 | 24 | 26 | 26 | 20 | 14 | 27 | 37 | 40 | 29 | 34 | 27 | 18 | 18 | 29 | 18 | 17 |
| 31 | 19 | 20 | 24 | 19 | 16 | 21 | 18 | 26 | 25 | 25 | 34 | 38 | 33 | 28 | 22 | 26 | 35 | 30 | 24 | 24 | 22 | 20 | 12 | 5 |

RELATÓRIO MENSAL DADOS

6 - ALTO TIETE - Parque D.Pedro II

MP10 (Partículas Inaláveis)

Unidade de Medida: micrograma por metro cúbico (µg/m³)

Fevereiro / 2017

| Dias / Hora | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 1 | 9 | 17 | 11 | 12 | 17 | 22 | 26 | 34 | 36 | 34 | 41 | 37 | 24 | 15 | 21 | 25 | 27 | 10 | 18 | 13 | 13 | 20 | 34 | 33 |
| 2 | 23 | 27 | 49 | 57 | 35 | 25 | 17 | 16 | 9 | 8 | 16 | 6 | 13 | 8 | 18 | 24 | 5 | 13 | 7 | 16 | 14 | 12 | 15 | 19 |
| 3 | 20 | 20 | 19 | 14 | 12 | 10 | 6 | 11 | 9 | 7 | 6 | 9 | 12 | 11 | 12 | 10 | 13 | 13 | 18 | 17 | 15 | 23 | 12 | 20 |
| 4 | 19 | 24 | 14 | 10 | 14 | 20 | 15 | 21 | 13 | 12 | 9 | 18 | 10 | 22 | 11 | 5 | 10 | 15 | 30 | 5 | 14 | 15 | 22 | 18 |
| 5 | 20 | 16 | 13 | 18 | 22 | 22 | 22 | 23 | 21 | 13 | 10 | 15 | 12 | 4 | 11 | 11 | 13 | 22 | 20 | 19 | 28 | 27 | 29 | 34 |
| 6 | 28 | 15 | 25 | 18 | 18 | - | - | - | 5 | 7 | 10 | 20 | 20 | 22 | 20 | 22 | 34 | 33 | 34 | 22 | 6 | 13 | 12 | 21 |
| 7 | 24 | 20 | 27 | 17 | 18 | 13 | 27 | 24 | 19 | 31 | 26 | 25 | 35 | 21 | 23 | 29 | 10 | 17 | 20 | 24 | 21 | 20 | 15 | 18 |
| 8 | 24 | 28 | 16 | 14 | 16 | 15 | 15 | 14 | 21 | 18 | 24 | 22 | 22 | 24 | 19 | 24 | 23 | 30 | 22 | 25 | 22 | 18 | 18 | 17 |
| 9 | 16 | 15 | 15 | 15 | 13 | 24 | 12 | 24 | 23 | 21 | 21 | 20 | 18 | 18 | 23 | 31 | 33 | 27 | 27 | 24 | 21 | 20 | 21 | 18 |
| 10 | 8 | 13 | 14 | 10 | 9 | 10 | 12 | 14 | 21 | 14 | 18 | 26 | 30 | 29 | 32 | 29 | 47 | 46 | 39 | 42 | 24 | 24 | 23 | 26 |
| 11 | 16 | 6 | 7 | 15 | 12 | 15 | 15 | 28 | 17 | 23 | 23 | 20 | 15 | 10 | 14 | 7 | 13 | 12 | 30 | 48 | 40 | 33 | 30 | 26 |
| 12 | 29 | 30 | 27 | 23 | 21 | 26 | 19 | 24 | 14 | 14 | 11 | 6 | 11 | 13 | 14 | 16 | 20 | 25 | 28 | 30 | 20 | 21 | 16 | 19 |
| 13 | 18 | 24 | 18 | 22 | 21 | 18 | 22 | 22 | 18 | 18 | 11 | 23 | 17 | 15 | 16 | 15 | 22 | 22 | 14 | 23 | 38 | 38 | 31 | 28 |
| 14 | 25 | 36 | 25 | 21 | 15 | 17 | 24 | 30 | 27 | 32 | 27 | 22 | 21 | 20 | 20 | 11 | 16 | 19 | 33 | 43 | 41 | 28 | 21 | 25 |
| 15 | 25 | 39 | 37 | 39 | 24 | 25 | 18 | 26 | 22 | 28 | 21 | 28 | 26 | 26 | 30 | 28 | 36 | 25 | 38 | 33 | 33 | 37 | 31 | 27 |
| 16 | 27 | 32 | 19 | 30 | 25 | 37 | 37 | 40 | 33 | 45 | 27 | 21 | 31 | 34 | 25 | 30 | 75 | 78 | 59 | 43 | 42 | 34 | 27 | 16 |
| 17 | 26 | 29 | 34 | 46 | 43 | 42 | 34 | 37 | 38 | 49 | 38 | 26 | 33 | 27 | 27 | 23 | 27 | 51 | 37 | 42 | 37 | 27 | 28 | 35 |
| 18 | 31 | 23 | 41 | 55 | 52 | 48 | 62 | 55 | 43 | 59 | 43 | 36 | 20 | 20 | 18 | 27 | 32 | 45 | 49 | 37 | 33 | 39 | 32 | 25 |
| 19 | 23 | 32 | 37 | 45 | 67 | 74 | 47 | 29 | 36 | 43 | - | - | - | - | - | - | 17 | 13 | 36 | 40 | 38 | 33 | 38 | 39 |
| 20 | 36 | 36 | 31 | 32 | - | - | - | 12 | 14 | 30 | 36 | 39 | 35 | 32 | 54 | 61 | 49 | 48 | 36 | 40 | 37 | 27 | 21 | 20 |
| 21 | 8 | 23 | 19 | 20 | 23 | 22 | 23 | 22 | 34 | 36 | 36 | 39 | 48 | 40 | 32 | 63 | 59 | 58 | 53 | 38 | 36 | 22 | 20 | 13 |
| 22 | 15 | 22 | 21 | 26 | 26 | 28 | 30 | 34 | 33 | 38 | 31 | 20 | 17 | 13 | 25 | 24 | 78 | 45 | 32 | 27 | 32 | 37 | 44 | 57 |
| 23 | 55 | 71 | 70 | 75 | 71 | 57 | 55 | 32 | 11 | 19 | 12 | 23 | 22 | 19 | 22 | 21 | 30 | 25 | 29 | 41 | 43 | 44 | 31 | 25 |
| 24 | 16 | 20 | 18 | 15 | 22 | 32 | 37 | 29 | 34 | 26 | 22 | 28 | 34 | 34 | 27 | 39 | 39 | 2 | 0 | 9 | 5 | 3 | 0 | 1 |
| 25 | - | - | - | - | - | - | - | - | 1 | 5 | 13 | 15 | 20 | 16 | 11 | 9 | 12 | 5 | 15 | 14 | 16 | 17 | 24 | 25 |
| 26 | 14 | 18 | 21 | 25 | 22 | 23 | 20 | 10 | 5 | 5 | 4 | 2 | 9 | 8 | 13 | 8 | 15 | 28 | 22 | 22 | 18 | 11 | 15 | 22 |
| 27 | 31 | 26 | 33 | 35 | 23 | 19 | 21 | 13 | 9 | 8 | 9 | 11 | 12 | 5 | 9 | 50 | 35 | 22 | 18 | 26 | 33 | 28 | 18 | 21 |
| 28 | 22 | 33 | 29 | 19 | 17 | 16 | 17 | 9 | 7 | 12 | 3 | 17 | 19 | 16 | 12 | 22 | 20 | 21 | 16 | 35 | 19 | 19 | 30 | 36 |

RELATÓRIO MENSAL DADOS

6 - ALTO TIETE - Parque D.Pedro II

MP10 (Partículas Inaláveis)

Unidade de Medida: micrograma por metro cúbico (µg/m³)

Março / 2017

| Dias / Hora | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 1 | 39 | 55 | 56 | 38 | 24 | 29 | 25 | 22 | 9 | 9 | 13 | 20 | 15 | 18 | 10 | 20 | 24 | 28 | 23 | 21 | 20 | 19 | 13 | 11 |
| 2 | 5 | 11 | 10 | 7 | 11 | 10 | 15 | 7 | 10 | 10 | 11 | 15 | 17 | 23 | 20 | 13 | 19 | 14 | 18 | 24 | 18 | 9 | 8 | 21 |
| 3 | 21 | 27 | 9 | 5 | 10 | 6 | 14 | 18 | 16 | 17 | 20 | 18 | 13 | 9 | 11 | 18 | 17 | 17 | 19 | 20 | 13 | 19 | 10 | 13 |
| 4 | 36 | 22 | 12 | 11 | 11 | 17 | 15 | 16 | 19 | 19 | 16 | 12 | 16 | 16 | 24 | 11 | 19 | 13 | 14 | 15 | 15 | 10 | 12 | 13 |
| 5 | 2 | 9 | 8 | 11 | 6 | 25 | 47 | 50 | 5 | 14 | 5 | 7 | 6 | 8 | 5 | 7 | 17 | 14 | 8 | 19 | 9 | 4 | 6 | 3 |
| 6 | 8 | 12 | 17 | 17 | 12 | 14 | 19 | 16 | 23 | 23 | 19 | 35 | 49 | 28 | 19 | 19 | 27 | 24 | 23 | 36 | 33 | 20 | 16 | 23 |
| 7 | 22 | 20 | 22 | 18 | 34 | 26 | 24 | 24 | 20 | 26 | 36 | 33 | 22 | 35 | 37 | 39 | 25 | 23 | 24 | 21 | 7 | 9 | 5 | 7 |
| 8 | 5 | 9 | 10 | 17 | 12 | 17 | 13 | 8 | 14 | 20 | 14 | 22 | 26 | 17 | 17 | 30 | 30 | 24 | 20 | 15 | 14 | 10 | 9 | 9 |
| 9 | 17 | 11 | 7 | 11 | 18 | 25 | 21 | 19 | 17 | 21 | 20 | 29 | 23 | 14 | 14 | 24 | 30 | 18 | 58 | 43 | 38 | 40 | 40 | 52 |
| 10 | 49 | 56 | 44 | 34 | 31 | 36 | 40 | 31 | 36 | 24 | 11 | 21 | 20 | 25 | 25 | 20 | 26 | 36 | 33 | 12 | 20 | 19 | 9 | 20 |
| 11 | 27 | 41 | 30 | 38 | 31 | 25 | 23 | 23 | 26 | 43 | 36 | 28 | 27 | 34 | 42 | 51 | 46 | 44 | 35 | 23 | 24 | 33 | 32 | 36 |
| 12 | 28 | 31 | 27 | 23 | 27 | 28 | 22 | 25 | 16 | 15 | 15 | 10 | 12 | 13 | 16 | 19 | 22 | 20 | 17 | 24 | 22 | 23 | 27 | 28 |
| 13 | 16 | 10 | 8 | 9 | 17 | 16 | 12 | 18 | 25 | 16 | 9 | 17 | 29 | 22 | 23 | 32 | 29 | 14 | 15 | 5 | 5 | 9 | 6 | 6 |
| 14 | 10 | 12 | 9 | 9 | 5 | 8 | 16 | 6 | 11 | 13 | 20 | 18 | 31 | 24 | 5 | 27 | 23 | 21 | 17 | 15 | 18 | 15 | 14 | 14 |
| 15 | 12 | 11 | 11 | 20 | 15 | 23 | 23 | 19 | 14 | 14 | 13 | 24 | 19 | 16 | 29 | 27 | 33 | 41 | 32 | 37 | 28 | 31 | 35 | 28 |
| 16 | 18 | 33 | 35 | 29 | 18 | 26 | 31 | 35 | 42 | 29 | 19 | 18 | 20 | 24 | 18 | 24 | 23 | 26 | 34 | 27 | 33 | 40 | 56 | 50 |
| 17 | 52 | 51 | 56 | 55 | 49 | 42 | 45 | 58 | 59 | 48 | 25 | 47 | 70 | 44 | 27 | 20 | 22 | 9 | 7 | 1 | 6 | 6 | 5 | 3 |
| 18 | 11 | 9 | 6 | 9 | 4 | 7 | 6 | 14 | 18 | 16 | 18 | 12 | 9 | 5 | 6 | 6 | 8 | 9 | 5 | 6 | 4 | 11 | 7 | 4 |
| 19 | 8 | 3 | 10 | 11 | 6 | 15 | 11 | 7 | 11 | 8 | 11 | 13 | 14 | 12 | 15 | 12 | 11 | 11 | 7 | 9 | 3 | 2 | 3 | 9 |
| 20 | 9 | 11 | 8 | 7 | 11 | 8 | 5 | 2 | 9 | 7 | 11 | 13 | 12 | 8 | 12 | 20 | 23 | 20 | 20 | 12 | 11 | 11 | 7 | 8 |
| 21 | 8 | 14 | 14 | 17 | 13 | 14 | 23 | 14 | 16 | 19 | 16 | 13 | 16 | 15 | 20 | 24 | 28 | 24 | 27 | 18 | 14 | 11 | 10 | 9 |
| 22 | 16 | 5 | 9 | 12 | 13 | 15 | 12 | 12 | 22 | 16 | 15 | 19 | 15 | 16 | 25 | 26 | 33 | 31 | 19 | 24 | 15 | 14 | 8 | 13 |
| 23 | 5 | 11 | 12 | 10 | 18 | 17 | 13 | 14 | 27 | 25 | 25 | - | 28 | 21 | 34 | 30 | 38 | 38 | 35 | 24 | 24 | 17 | 17 | 21 |
| 24 | 30 | 20 | 23 | 26 | 30 | 27 | 23 | 27 | 31 | 37 | 39 | 34 | 60 | 34 | 26 | 41 | 45 | 62 | 48 | 38 | 38 | 38 | 47 | 42 |
| 25 | 42 | 64 | 80 | 85 | 68 | 47 | 41 | 50 | 52 | 32 | 17 | 21 | 30 | 25 | 24 | 22 | 24 | 18 | 15 | 19 | 16 | 15 | 18 | 20 |
| 26 | 23 | 24 | 27 | 22 | 24 | 24 | 28 | 21 | 13 | 8 | 10 | 8 | 14 | 11 | 16 | 23 | 18 | 24 | 19 | 10 | 11 | 13 | 11 | 13 |
| 27 | 16 | 8 | 9 | 9 | 14 | 19 | 13 | 7 | 14 | 27 | 16 | 11 | 9 | 20 | 25 | 37 | 44 | 36 | 27 | 23 | 21 | 18 | 11 | 13 |
| 28 | 10 | 13 | 12 | 19 | 16 | 9 | 9 | 16 | 15 | 13 | 10 | 15 | 12 | 19 | 22 | 24 | 24 | 21 | 19 | 16 | 15 | 13 | 17 | 18 |
| 29 | 18 | 12 | 14 | 6 | 10 | 16 | 12 | 7 | 13 | 21 | 14 | 18 | 23 | 18 | 13 | 30 | 22 | 19 | 22 | 18 | 20 | 5 | 9 | 5 |
| 30 | 16 | 14 | 4 | 11 | 6 | 4 | 5 | 11 | 11 | 7 | 12 | 9 | 17 | 22 | 34 | 16 | 17 | 19 | 15 | 13 | 12 | 12 | 18 | 12 |
| 31 | 10 | 12 | 10 | 13 | 13 | 13 | 12 | 2 | 9 | 15 | 12 | 13 | 9 | 10 | 19 | 23 | 16 | 21 | 18 | 17 | 13 | 9 | 13 | 7 |



Sistema de Informação de Qualidade do Ar

RELATÓRIO MENSAL DADOS

6 - ALTO TIETE - Parque D.Pedro II

MP10 (Partículas Inaláveis)

Unidade de Medida: micrograma por metro cúbico ($\mu\text{g}/\text{m}^3$)

Abril / 2017

| Dias / Hora | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 1 | 7 | 12 | 9 | 8 | 6 | 11 | 8 | 10 | 13 | 12 | 19 | 15 | 5 | 14 | 16 | 23 | 23 | 26 | 22 | 17 | 19 | 15 | 16 | 7 |
| 2 | 12 | 9 | 8 | 6 | 6 | 13 | 9 | 8 | 12 | 12 | 13 | 12 | 11 | 16 | 18 | 18 | 24 | 27 | 28 | 22 | 19 | 16 | 7 | 8 |
| 3 | 14 | 10 | 4 | 11 | 7 | 13 | 10 | 15 | 25 | 24 | 22 | - | 23 | 19 | 30 | 41 | 35 | 34 | 35 | 29 | 23 | 22 | 18 | 19 |
| 4 | 15 | 13 | 14 | 14 | 13 | 24 | 27 | 33 | 28 | 38 | 35 | - | 34 | 23 | 32 | 25 | 40 | 53 | 44 | 42 | 42 | 48 | 42 | 52 |
| 5 | 59 | 65 | 59 | 64 | 59 | 58 | 55 | 46 | 41 | 34 | 42 | 50 | 28 | 28 | 25 | 33 | 36 | 35 | 35 | 42 | 43 | 52 | 43 | 38 |
| 6 | 25 | 41 | 46 | 45 | 44 | 52 | 51 | 33 | 31 | 31 | 17 | 3 | 13 | 10 | 12 | 7 | 17 | 21 | 22 | 17 | 17 | 19 | 24 | 16 |
| 7 | 15 | 7 | 10 | 8 | 3 | 6 | 6 | 7 | 7 | 9 | 17 | - | 16 | 19 | 10 | 22 | 18 | 13 | 17 | 8 | 10 | 10 | 9 | 15 |
| 8 | 6 | 17 | 22 | 15 | 14 | 19 | 18 | 10 | 17 | 12 | 11 | - | 10 | 17 | 25 | 26 | 29 | 25 | 26 | 14 | 13 | 17 | 19 | 15 |
| 9 | 14 | 17 | 17 | 19 | 14 | 15 | 12 | 16 | 15 | 4 | 3 | 9 | 7 | 13 | 10 | 26 | 27 | 28 | 13 | 15 | 14 | 18 | 20 | 8 |
| 10 | 4 | 13 | 10 | 11 | 6 | 15 | 9 | 17 | 18 | 20 | 30 | 30 | 21 | 25 | 40 | 50 | 50 | 54 | 40 | 32 | 25 | 26 | 31 | 39 |
| 11 | 33 | 31 | 25 | 24 | 23 | 24 | 22 | 21 | 23 | 16 | 24 | 25 | 22 | 19 | 26 | 21 | 34 | 29 | 25 | 32 | 33 | 24 | 21 | 17 |
| 12 | 14 | 10 | 12 | 12 | 10 | 11 | 7 | 10 | 3 | 3 | 9 | 8 | 9 | 5 | 22 | 15 | 19 | 17 | 11 | 11 | 20 | 16 | 14 | 14 |
| 13 | 10 | 9 | 18 | - | - | - | - | - | - | 14 | 15 | 14 | 12 | 17 | 24 | 25 | 16 | 18 | 18 | 11 | 13 | 17 | 13 | 15 |
| 14 | 8 | 15 | 12 | 16 | 8 | 15 | 20 | 14 | 10 | 15 | 10 | 16 | 16 | 15 | 26 | 35 | 45 | 35 | 29 | 25 | 33 | 28 | 21 | 18 |
| 15 | 29 | 22 | 18 | 17 | 16 | 18 | 19 | 18 | 16 | 17 | 21 | 22 | 24 | 20 | 21 | 37 | 41 | 30 | 28 | 21 | 32 | 32 | 40 | 37 |
| 16 | 34 | 37 | 41 | 37 | 31 | 28 | 28 | 19 | 20 | 14 | 14 | 15 | 14 | 14 | 12 | 17 | 24 | 27 | 30 | 28 | 29 | 26 | 23 | 18 |
| 17 | 3 | 15 | 14 | 13 | 11 | 10 | 11 | 12 | 16 | 14 | 14 | 13 | 6 | 11 | 11 | 14 | 13 | 14 | 16 | 10 | 8 | 10 | 9 | 17 |
| 18 | 19 | 20 | 14 | 12 | 13 | 11 | 5 | 9 | 13 | 22 | 12 | - | 16 | 21 | 23 | 19 | 23 | 21 | 23 | 16 | 22 | 12 | 13 | 16 |
| 19 | 8 | 11 | 12 | 8 | 10 | 11 | 11 | 11 | 13 | 16 | 24 | 18 | 17 | 17 | 21 | 20 | 25 | 20 | 27 | 19 | 19 | 21 | 15 | 14 |
| 20 | 5 | 15 | 17 | 13 | 17 | 23 | 26 | 32 | 30 | 31 | 17 | 8 | 33 | 42 | 44 | 39 | 51 | 43 | 45 | 46 | 64 | 42 | 37 | 30 |
| 21 | 25 | 24 | 24 | 26 | 28 | 29 | 31 | 34 | 30 | 23 | 19 | 20 | 24 | 31 | 27 | 30 | 30 | 29 | 19 | 24 | 22 | 10 | 5 | 8 |
| 22 | 6 | 13 | 7 | 11 | 4 | 13 | 11 | 11 | 12 | 10 | 13 | 10 | 9 | 18 | 11 | 24 | 16 | 8 | 8 | 17 | 15 | 13 | 14 | 17 |
| 23 | 1 | 10 | 9 | 7 | 10 | 13 | 6 | 9 | 14 | 10 | 9 | 11 | 20 | 11 | 15 | 21 | 23 | 26 | 20 | 20 | 13 | 11 | 10 | 10 |
| 24 | 4 | 11 | 12 | 11 | 13 | 12 | 19 | 15 | 16 | 24 | 27 | 23 | 20 | 11 | 24 | 25 | 38 | 45 | 43 | 35 | 28 | 25 | 29 | 24 |
| 25 | 35 | 26 | 21 | 19 | 14 | 15 | 21 | 17 | 21 | 26 | 30 | 22 | 16 | 24 | 21 | 23 | 27 | 28 | 31 | 32 | 25 | 28 | 28 | 22 |
| 26 | 20 | 37 | 34 | 34 | 31 | 31 | 15 | 17 | 20 | 21 | 33 | 20 | 20 | - | 6 | 15 | 18 | 21 | 14 | 14 | 14 | 7 | 13 | 8 |
| 27 | 18 | 8 | 8 | 8 | 9 | 15 | 14 | 16 | 9 | 14 | 14 | 15 | 18 | 14 | 11 | 15 | 19 | 20 | 22 | 23 | 18 | 14 | 11 | 8 |
| 28 | 1 | 9 | 12 | 17 | 30 | 31 | 17 | 13 | 14 | 15 | 13 | 12 | 17 | 19 | 26 | 18 | 23 | 18 | 22 | 16 | 10 | 9 | 9 | 4 |
| 29 | 4 | 11 | 11 | 6 | 14 | 7 | 10 | 8 | 8 | 7 | 9 | 13 | 16 | 20 | 20 | 28 | 24 | 24 | 17 | 25 | 9 | 6 | 11 | 9 |
| 30 | 12 | 11 | 8 | 5 | 6 | 1 | 6 | 6 | 0 | 8 | 8 | 8 | 14 | 5 | 18 | 26 | 21 | 27 | 23 | 19 | 18 | 7 | 16 | 11 |



Sistema de Informação de Qualidade do Ar

RELATÓRIO MENSAL DADOS

6 - ALTO TIETE - Parque D.Pedro II

MP10 (Partículas Inaláveis)

Unidade de Medida: micrograma por metro cúbico ($\mu\text{g}/\text{m}^3$)

Maio / 2017

| Dias / Hora | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|-------------|----|----|----|----|----|----|----|----|----|----|----|----|-----|----|----|----|----|----|----|----|----|----|----|----|
| 1 | 15 | 8 | 10 | 11 | 10 | 9 | 10 | 11 | 4 | 19 | 15 | 15 | 12 | 9 | 20 | 31 | 43 | 33 | 28 | 22 | 22 | 16 | 12 | 13 |
| 2 | 10 | 14 | 18 | 18 | 22 | 23 | 24 | 32 | 19 | 27 | 37 | 33 | 39 | 34 | 30 | 35 | 55 | 44 | 45 | 31 | 36 | 42 | 38 | 31 |
| 3 | 35 | 30 | 29 | 20 | 21 | 27 | 29 | 29 | 30 | 34 | 37 | 43 | 32 | 24 | 34 | 41 | 64 | 52 | 50 | 50 | 54 | 59 | 59 | 50 |
| 4 | 42 | 45 | 50 | 53 | 52 | 42 | 41 | 34 | 32 | 40 | 44 | 51 | 39 | 22 | 24 | 28 | 22 | 31 | 62 | 73 | 78 | 58 | 63 | 52 |
| 5 | 38 | 22 | 23 | 17 | 15 | 24 | 25 | 23 | 17 | 15 | 20 | 26 | 14 | 7 | 10 | 12 | 20 | 21 | 30 | 29 | 14 | 10 | 16 | 14 |
| 6 | 5 | 10 | 6 | 14 | 15 | 15 | 27 | 17 | 19 | 19 | 22 | - | 18 | 7 | 6 | 14 | 12 | 20 | 18 | 12 | 9 | 11 | 12 | 10 |
| 7 | 7 | 8 | 9 | 5 | 8 | 7 | 4 | 12 | 2 | 8 | 6 | 9 | 12 | 6 | 8 | 24 | 23 | 21 | 21 | 12 | 11 | 15 | 13 | 12 |
| 8 | 10 | 14 | 12 | 12 | 12 | 19 | 20 | 20 | 44 | 45 | 40 | 40 | 31 | 16 | 23 | 31 | 27 | 48 | 45 | 37 | 30 | 41 | 30 | 31 |
| 9 | 27 | 41 | 32 | 37 | 30 | 38 | 34 | 36 | 43 | 36 | 33 | 24 | 20 | 21 | 21 | 24 | 28 | 29 | 37 | 47 | 38 | 39 | 53 | 35 |
| 10 | 18 | 18 | 14 | 13 | 16 | 12 | 16 | 18 | 14 | 14 | 21 | 20 | 13 | 22 | 25 | 21 | 18 | 18 | 25 | 16 | 28 | 37 | 34 | 20 |
| 11 | 12 | 11 | 15 | 12 | 9 | 11 | 12 | 22 | 23 | 23 | 21 | 14 | 15 | 17 | 17 | 22 | 21 | 23 | 29 | 25 | 15 | 15 | 19 | 10 |
| 12 | 9 | 9 | 6 | 12 | 11 | 9 | 11 | 15 | 29 | 63 | 21 | 14 | 18 | 17 | 21 | 29 | 34 | 45 | 62 | 49 | 27 | 33 | 38 | 41 |
| 13 | 42 | 40 | 31 | 29 | 24 | 26 | 25 | 25 | 28 | 34 | 32 | 29 | 26 | 28 | 29 | 32 | 29 | 41 | 37 | 45 | 37 | 37 | 37 | 28 |
| 14 | 22 | 33 | 28 | 34 | 21 | 26 | 21 | 28 | 35 | 18 | 19 | 28 | 142 | 15 | 15 | 17 | 15 | 28 | 18 | 23 | 15 | 17 | 20 | 23 |
| 15 | 13 | 12 | 7 | 9 | 7 | 8 | 8 | 11 | 6 | 12 | 10 | 8 | 13 | 10 | 14 | 20 | 21 | 36 | 25 | 17 | 15 | 16 | 15 | 13 |
| 16 | 14 | 15 | 14 | 11 | 9 | 13 | 16 | 15 | 19 | 21 | 17 | - | 17 | 18 | 23 | 50 | 33 | 31 | 26 | 22 | 15 | 12 | 22 | 24 |
| 17 | 22 | 14 | 19 | 11 | 14 | 7 | 11 | 7 | 23 | 44 | 26 | 19 | 19 | 21 | 25 | 25 | 39 | 39 | 33 | 44 | 28 | 14 | 13 | 10 |
| 18 | 10 | 13 | 16 | 16 | 17 | 14 | 13 | 19 | 19 | 27 | 24 | 29 | 30 | 29 | 29 | 39 | 46 | 23 | 22 | 15 | 20 | 15 | 11 | 13 |
| 19 | 17 | 10 | 13 | 13 | 9 | 7 | 10 | 12 | 11 | 13 | 15 | 14 | 21 | 13 | 23 | 24 | 22 | 21 | 26 | 26 | 18 | 10 | 12 | 11 |
| 20 | 14 | 22 | 21 | 32 | 17 | 20 | 30 | 19 | 21 | 11 | 23 | 25 | 25 | 18 | 14 | 22 | 24 | - | 30 | 29 | 45 | 32 | 24 | 11 |
| 21 | 22 | 18 | 12 | 13 | 11 | 12 | 11 | 9 | 18 | 11 | 13 | 10 | 11 | 18 | 18 | 14 | 21 | 21 | 19 | 12 | 19 | 12 | 13 | 8 |
| 22 | 9 | 11 | 6 | 6 | 7 | 8 | 6 | 9 | 9 | 15 | 4 | 10 | 6 | 11 | 19 | 13 | 18 | 17 | 17 | 12 | 14 | 9 | 10 | 13 |
| 23 | 21 | 16 | 21 | 14 | 15 | 15 | 15 | 17 | 12 | 20 | 29 | 23 | 32 | 17 | 22 | 28 | 33 | 28 | 36 | 30 | 30 | 26 | 19 | 17 |
| 24 | 11 | 22 | 22 | 18 | 16 | 21 | 16 | 19 | 20 | 26 | 28 | 32 | 39 | 33 | 49 | 42 | 50 | 52 | 56 | 57 | 58 | 56 | 55 | 64 |
| 25 | 72 | 80 | 77 | 65 | 51 | 49 | 48 | 36 | 43 | 39 | 37 | 43 | 39 | 39 | 24 | 20 | 26 | 26 | 34 | 56 | 60 | 42 | 55 | 64 |
| 26 | 54 | 63 | 66 | 54 | 42 | 39 | 41 | 56 | 47 | 51 | 38 | 35 | 24 | 14 | 16 | 23 | 30 | 30 | 44 | 59 | 50 | 47 | 45 | 63 |
| 27 | 67 | 84 | 79 | 75 | 74 | 64 | 64 | 58 | 43 | 39 | 28 | 15 | 17 | - | 16 | 23 | 20 | 35 | 27 | 38 | 34 | 34 | 37 | 30 |
| 28 | 25 | 23 | 36 | 37 | 30 | 29 | 29 | 34 | 52 | 54 | 39 | 36 | 27 | 27 | 36 | 32 | 28 | 43 | 38 | 25 | 27 | 31 | 40 | 44 |
| 29 | 42 | 48 | 50 | 43 | 40 | 24 | 22 | 20 | 21 | 17 | 32 | 26 | 17 | 15 | 17 | 28 | 20 | 33 | 31 | 31 | 31 | 55 | 74 | 82 |
| 30 | 97 | 90 | 88 | 77 | 30 | 15 | 13 | 22 | 16 | 21 | 15 | 10 | 11 | 19 | 20 | 25 | 14 | 13 | 13 | 8 | 10 | 10 | 10 | 6 |
| 31 | 16 | 6 | 11 | 10 | 18 | 16 | 13 | 24 | 26 | 26 | 26 | 25 | 18 | 18 | 22 | 29 | 33 | 35 | 38 | 49 | 47 | 50 | 54 | 50 |

RELATÓRIO MENSAL DADOS

6 - ALTO TIETE - Parque D.Pedro II

MP10 (Partículas Inaláveis)

Unidade de Medida: micrograma por metro cúbico (µg/m³)

Junho / 2017

| Dias / Hora | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|-------------|----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 1 | 50 | 88 | 78 | 69 | 54 | 37 | 32 | 20 | 30 | 38 | 43 | 34 | 32 | 22 | 10 | 10 | 19 | 19 | 18 | 18 | 14 | 10 | 14 | 35 |
| 2 | 15 | 15 | 15 | 13 | 14 | 9 | 13 | 11 | 15 | 16 | 14 | 16 | 12 | 15 | 21 | 21 | 32 | 27 | 34 | 25 | 24 | 27 | 24 | 25 |
| 3 | 19 | 23 | 16 | 16 | 18 | 21 | 20 | 16 | 16 | 23 | 24 | 24 | 24 | 23 | 23 | 29 | 33 | - | 44 | 44 | 46 | 40 | 35 | 44 |
| 4 | 56 | 63 | 72 | 61 | 53 | 36 | 23 | 21 | 20 | 17 | 16 | 19 | 20 | 18 | 16 | 14 | 13 | 28 | 30 | 38 | 43 | 39 | 33 | 21 |
| 5 | 25 | 29 | 28 | 24 | 27 | 26 | 34 | 41 | 48 | 73 | 43 | 11 | 13 | 11 | 18 | 23 | 26 | 20 | 20 | 16 | 19 | 11 | 20 | 23 |
| 6 | 24 | 28 | 30 | 25 | 22 | 25 | 28 | 20 | 22 | 17 | 15 | 24 | 19 | 12 | 7 | 12 | 20 | 23 | 33 | 41 | 36 | 40 | 38 | 40 |
| 7 | 45 | 41 | 41 | 35 | 39 | 15 | 10 | 12 | 16 | 17 | 21 | 23 | 24 | 23 | 19 | 27 | 29 | 23 | 40 | 53 | 51 | 54 | 60 | 67 |
| 8 | 72 | 72 | 64 | 61 | 54 | 51 | 31 | 20 | 22 | 17 | 23 | 18 | 21 | 18 | 23 | 24 | 32 | 30 | 37 | 39 | 36 | 36 | 36 | 37 |
| 9 | 30 | 42 | 39 | 38 | 36 | 39 | 33 | 15 | 20 | 16 | 16 | 13 | 28 | 21 | 18 | 23 | 21 | 14 | 19 | 10 | 9 | 14 | 7 | 13 |
| 10 | 12 | 14 | 13 | 14 | 10 | 12 | 6 | 8 | 4 | 15 | 10 | 18 | 11 | 12 | 11 | 17 | 13 | 20 | 16 | 17 | 17 | 21 | 31 | 32 |
| 11 | 30 | 42 | 43 | 44 | 39 | 50 | 54 | 71 | 45 | 42 | 56 | 19 | 13 | 21 | 25 | 24 | 31 | 44 | 46 | 36 | 45 | 38 | 40 | 53 |
| 12 | 53 | 41 | 35 | 29 | 33 | 36 | 39 | 37 | 32 | 48 | 55 | - | 59 | 50 | 47 | 42 | 30 | 34 | 33 | 48 | 50 | 52 | 53 | 93 |
| 13 | 91 | 92 | 86 | 91 | 80 | 68 | 60 | 53 | 52 | 61 | 65 | - | 69 | 38 | 28 | 26 | 18 | 13 | 15 | 18 | 13 | 12 | 16 | 17 |
| 14 | 20 | 17 | 14 | 22 | 16 | 29 | 29 | 24 | 33 | 34 | 35 | 26 | 7 | 14 | 20 | 21 | 43 | 32 | 32 | 30 | 29 | 17 | 26 | 23 |
| 15 | 14 | 22 | 25 | 14 | 13 | 10 | 15 | 15 | 15 | 8 | 8 | 8 | 10 | 14 | 16 | 10 | 9 | 15 | 31 | 30 | 21 | 11 | 10 | 16 |
| 16 | 22 | 23 | 21 | 12 | 17 | 15 | 22 | 19 | 24 | 23 | 28 | 31 | 28 | 32 | 31 | 22 | 27 | 17 | 22 | 42 | 65 | 71 | 67 | 72 |
| 17 | 65 | 79 | 73 | 63 | 69 | 58 | 50 | 46 | 42 | 34 | 35 | 29 | 29 | 16 | 12 | 14 | 19 | 28 | 30 | 38 | 53 | 75 | 73 | 71 |
| 18 | 54 | 72 | 75 | 67 | 66 | 57 | 52 | 52 | 24 | 28 | 24 | 29 | 19 | 13 | 13 | 13 | 13 | 16 | 14 | 29 | 34 | 42 | 38 | 38 |
| 19 | 30 | 47 | 49 | 54 | 52 | 42 | 57 | 61 | 60 | 58 | 66 | - | 41 | 25 | 39 | 36 | 35 | 28 | 18 | 6 | 7 | 4 | 6 | 5 |
| 20 | 3 | 10 | 4 | 8 | 3 | 4 | 5 | 4 | 2 | 7 | 2 | 8 | 6 | 8 | 6 | 13 | 10 | 9 | 11 | 7 | 5 | 4 | 7 | 9 |
| 21 | 5 | 9 | 7 | 11 | 8 | 6 | 6 | 9 | 9 | 12 | 15 | 14 | 7 | 9 | 19 | 14 | 22 | - | 15 | 12 | 16 | 9 | 4 | 12 |
| 22 | 11 | 9 | 5 | 7 | 11 | 13 | 14 | 23 | 27 | 23 | 23 | - | 29 | 16 | 21 | 22 | 21 | 35 | 33 | 27 | 30 | 28 | 32 | 30 |
| 23 | 25 | 29 | 28 | 26 | 21 | 28 | 23 | 25 | 30 | 34 | 22 | 27 | 22 | 22 | 23 | 29 | 33 | - | 46 | 27 | 28 | 29 | 20 | 29 |
| 24 | 36 | 40 | 41 | 46 | 34 | 20 | 17 | 18 | 19 | 22 | 23 | 26 | 19 | 17 | 17 | 23 | 27 | 38 | 27 | 23 | 10 | 16 | 29 | 30 |
| 25 | 40 | 24 | 29 | 35 | 21 | 29 | 23 | 12 | 6 | 6 | 18 | 11 | 15 | 14 | 14 | 17 | 27 | 31 | 21 | 16 | 7 | 9 | 12 | 12 |
| 26 | 18 | 12 | 11 | 21 | 23 | 19 | 17 | 26 | 24 | 29 | 42 | 44 | 33 | 34 | 32 | 33 | 26 | 40 | 49 | 48 | 38 | 47 | 40 | 47 |
| 27 | 54 | 43 | 34 | 22 | 18 | 20 | 17 | 22 | 21 | 17 | 20 | - | 27 | 9 | 9 | 15 | 22 | 27 | 42 | 59 | 47 | 35 | 25 | 38 |
| 28 | 44 | 54 | 70 | 58 | 49 | 44 | 45 | 41 | 32 | 36 | 42 | 41 | 45 | 39 | 38 | 26 | 21 | 27 | 44 | 31 | 30 | 28 | 27 | 41 |
| 29 | 55 | 76 | 102 | 97 | 91 | 76 | 66 | 57 | 48 | 48 | 59 | 50 | 35 | 9 | 8 | 12 | 25 | 14 | 26 | 36 | 45 | 52 | 48 | 60 |
| 30 | 83 | 104 | 94 | 79 | 61 | 44 | 32 | 42 | 27 | 40 | 42 | 35 | 35 | 19 | 20 | 20 | 28 | 29 | 48 | 40 | 36 | 40 | 48 | 47 |



Sistema de Informação de Qualidade do Ar

RELATÓRIO MENSAL DADOS

6 - ALTO TIETE - Parque D.Pedro II

MP10 (Partículas Inaláveis)

Unidade de Medida: micrograma por metro cúbico ($\mu\text{g}/\text{m}^3$)

Julho / 2017

| Dias / Hora | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|-------------|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 1 | 55 | 78 | 105 | 90 | 33 | 13 | 20 | 20 | 16 | 18 | 13 | 15 | 5 | 7 | 13 | 11 | 18 | 21 | 22 | 16 | 9 | 13 | 15 | 19 |
| 2 | 6 | 14 | 15 | 14 | 16 | 14 | 7 | 17 | 11 | 16 | 21 | 7 | 14 | 26 | 22 | 19 | 23 | - | 21 | 8 | 14 | 12 | 10 | 13 |
| 3 | 12 | 7 | 7 | 7 | 7 | 6 | 10 | 8 | 12 | 15 | 12 | 17 | 13 | 8 | 15 | 13 | 8 | - | 11 | 11 | 16 | 9 | 12 | 10 |
| 4 | 15 | 11 | 12 | 12 | 17 | 10 | 14 | 15 | 7 | 16 | 14 | 14 | 14 | 20 | 15 | 14 | 27 | 18 | 30 | 25 | 26 | 23 | 23 | 25 |
| 5 | 37 | 32 | 30 | 15 | 19 | 26 | 32 | 35 | 37 | 40 | 40 | 14 | 11 | 12 | 15 | 20 | 26 | 17 | 28 | 24 | 19 | 25 | 25 | 33 |
| 6 | 36 | 47 | 47 | 37 | 22 | 27 | 23 | 22 | 26 | 35 | 38 | 35 | 24 | 18 | 18 | 19 | 30 | 30 | 37 | 34 | 30 | 49 | 31 | 25 |
| 7 | 23 | 49 | 61 | 58 | 47 | 23 | 21 | 21 | 31 | 39 | 42 | 33 | 32 | 17 | 10 | 19 | 28 | 29 | 42 | 25 | 27 | 31 | 30 | 23 |
| 8 | 33 | 30 | 31 | 20 | 31 | 22 | 22 | 18 | 19 | 2 | 4 | 17 | 24 | 22 | 26 | 22 | 27 | 38 | 47 | 42 | 43 | 30 | 37 | 43 |
| 9 | 35 | 36 | 33 | 30 | 38 | 30 | 21 | 26 | 19 | 16 | 19 | 13 | 12 | 17 | 9 | 25 | 18 | 32 | 62 | 32 | 30 | 25 | 26 | 79 |
| 10 | 51 | 29 | 26 | 27 | 32 | 37 | 37 | 31 | 34 | 36 | 35 | 39 | 39 | 20 | 22 | 25 | 30 | 26 | 35 | 41 | 51 | 36 | 28 | 44 |
| 11 | 67 | 70 | 72 | 86 | 82 | 84 | 64 | 56 | 54 | 46 | 51 | - | 57 | 20 | 24 | 31 | 35 | 54 | 66 | 38 | 40 | 36 | 39 | 49 |
| 12 | 59 | 52 | 66 | 46 | 60 | 65 | 71 | 77 | 56 | 29 | 27 | 27 | 24 | 29 | 37 | 50 | 54 | 48 | 51 | 46 | 37 | 28 | 23 | 28 |
| 13 | 28 | 23 | 23 | 19 | 29 | 37 | 32 | 34 | 34 | 36 | 41 | 41 | 49 | 45 | 40 | 39 | 49 | 56 | 75 | 51 | 48 | 42 | 38 | 40 |
| 14 | 41 | 47 | 47 | 31 | 22 | 29 | 32 | 38 | 43 | 59 | 58 | - | 47 | 39 | 38 | 31 | 40 | 27 | 56 | 49 | 84 | 77 | 70 | 67 |
| 15 | 84 | 63 | 51 | 46 | 38 | 38 | 28 | 34 | 16 | 27 | 25 | 17 | 23 | 24 | 15 | 26 | 22 | 23 | 32 | 34 | 41 | 35 | 41 | 50 |
| 16 | 43 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 17 | - | - | - | - | - | - | - | 54 | 48 | 47 | 29 | - | 27 | 19 | 22 | 22 | 27 | 62 | 49 | 31 | 23 | 8 | 0 | 0 |
| 18 | 0 | - | - | - | - | - | 6 | 0 | 0 | 1 | 8 | 10 | 10 | 13 | 7 | 10 | 15 | 8 | 11 | 4 | 9 | 4 | 7 | 9 |
| 19 | 9 | 18 | 11 | 11 | 14 | 5 | 11 | 9 | 14 | 18 | 20 | 24 | 16 | 13 | 20 | 21 | 18 | 20 | 33 | 22 | 35 | 26 | 22 | 26 |
| 20 | - | - | - | - | 12 | 11 | 17 | 20 | 20 | 27 | 30 | 32 | 30 | 36 | 38 | 46 | 50 | 74 | 55 | 41 | 38 | 37 | 43 | 49 |
| 21 | 70 | 75 | 69 | 68 | 69 | 60 | 49 | 52 | 44 | 59 | 62 | 48 | 32 | 23 | 30 | 35 | 40 | 47 | 60 | 63 | 78 | 49 | 54 | 91 |
| 22 | 126 | 128 | 116 | 102 | 102 | 63 | 10 | 14 | 16 | 29 | 26 | 27 | 24 | 18 | 32 | 47 | 47 | 52 | 40 | 53 | 44 | 25 | 30 | 29 |
| 23 | 27 | 31 | 23 | 28 | 32 | 27 | 25 | 28 | 29 | 31 | 21 | 23 | 32 | 26 | 29 | 29 | 25 | 47 | 52 | 48 | 52 | 59 | 69 | 56 |
| 24 | 49 | 50 | 51 | 53 | 45 | 44 | 47 | 49 | 53 | 54 | 55 | 49 | 26 | - | 12 | 18 | 23 | 34 | 39 | 46 | 54 | 48 | 39 | 56 |
| 25 | 77 | 58 | 70 | 76 | 79 | 84 | 76 | 76 | 86 | 85 | 75 | 16 | 18 | 23 | 25 | 30 | 38 | 48 | 48 | 32 | 42 | 33 | 14 | 0 |
| 26 | 0 | - | - | - | - | - | 22 | 11 | 46 | 41 | 43 | 53 | 41 | 36 | 36 | 36 | 47 | 69 | 58 | 41 | 38 | 38 | 41 | 41 |
| 27 | 37 | 19 | 18 | 25 | 38 | 44 | 36 | 36 | 25 | 41 | 41 | 35 | 29 | 22 | 43 | 40 | 58 | 52 | 40 | 41 | 37 | 30 | 23 | 18 |
| 28 | 13 | 23 | 30 | 25 | 27 | 26 | 33 | 36 | 39 | 44 | 42 | 44 | 47 | 30 | 29 | 41 | 41 | 60 | 44 | 35 | 39 | 36 | 44 | 47 |
| 29 | 62 | 79 | 70 | 30 | 25 | 31 | 36 | 41 | 41 | 33 | 29 | 24 | 26 | 26 | 19 | 28 | 38 | 66 | 74 | 62 | 41 | 51 | 41 | 35 |
| 30 | 28 | 22 | 20 | 17 | 22 | 17 | 18 | 13 | 19 | 8 | 15 | 11 | 16 | 11 | 12 | 25 | 16 | 46 | 51 | 44 | 38 | 38 | 38 | 36 |
| 31 | 44 | 58 | 41 | 32 | 32 | 28 | 27 | 20 | 28 | 36 | 33 | 16 | 11 | 6 | 10 | 8 | 14 | 19 | 22 | 22 | 25 | 23 | 23 | 31 |