**Table 1** SPL measurements Jakubowo Park.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Point no | Leafless period measurements [dBA] | | | | | Leafy period measurements [dBA] | | | |
| **I** | | **II** | **III** | **Average** | **I** | **II** | **III** | **Average** |
| 1 | 71,0 | 68,0 | | 73,0 | 70,7 | 68,0 | 62,0 | 63,0 | 64,3 |
| 2 | 64,0 | 59,0 | | 61,0 | 61,3 | 60,0 | 58,0 | 57,0 | 58,3 |
| 3 | 67,0 | 58,0 | | 62,0 | 62,3 | 54,0 | 52,0 | 51,0 | 52,3 |
| 4 | 61,0 | 59,0 | | 57,0 | 59,0 | 52,0 | 51,0 | 49,0 | 50,7 |
| 5 | 60,0 | 63,0 | | 61,0 | 61,3 | 54,0 | 55,0 | 53,0 | 54,0 |
| 6 | 62,0 | 58,0 | | 55,0 | 58,3 | 50,0 | 54,0 | 49,0 | 51,0 |
| 7 | 64,0 | 61,0 | | 64,0 | 63,0 | 46,0 | 51,0 | 56,0 | 51,0 |
| 8 | 68,0 | 59,0 | | 60,0 | 62,3 | 48,0 | 45,0 | 53,0 | 48,7 |
| 9 | 63,0 | 55,0 | | 59,0 | 59,0 | 42,0 | 41,0 | 45,0 | 42,7 |
| 10 | 65,0 | 57,0 | | 61,0 | 61,0 | 55,0 | 52,0 | 54,0 | 53,7 |
| 11 | 67,0 | 63,0 | | 62,0 | 64,0 | 63,0 | 58,0 | 69,0 | 63,3 |
| 12 | 63,0 | 64,0 | | 67,0 | 64,7 | 59,0 | 56,0 | 51,0 | 55,3 |
| 13 | 61,0 | 57,0 | | 65,0 | 61,0 | 57,0 | 58,0 | 56,0 | 57,0 |
| 14 | 72,0 | 71,0 | | 69,0 | 70,7 | 64,0 | 64,0 | 65,0 | 64,3 |
| 15 | 77,0 | 68,0 | | 65,0 | 70,0 | 74,0 | 68,0 | 71,0 | 71,0 |
| 16 | 74,0 | 70,0 | | 61,0 | 68,3 | 71,0 | 64,0 | 76,0 | 70,3 |
| 17 | 68,0 | 73,0 | | 67,0 | 69,3 | 69,0 | 65,0 | 61,0 | 65,0 |
| 18 | 69,0 | 69,0 | | 74,0 | 70,7 | 76,0 | 73,0 | 69,0 | 72,7 |
| 19 | 65,0 | 71,0 | | 73,0 | 69,7 | 58,0 | 56,0 | 59,0 | 57,7 |
| 20 | 63,0 | 59,0 | | 63,0 | 61,7 | 55,0 | 53,0 | 50,0 | 52,7 |
| 21 | 59,0 | 62,0 | | 60,0 | 60,3 | 53,0 | 54,0 | 51,0 | 52,7 |
| 22 | 61,0 | 63,0 | | 65,0 | 63,0 | 54,0 | 52,0 | 50,0 | 52,0 |
| 23 | 73,0 | 63,0 | | 62,0 | 66,0 | 32,0 | 30,0 | 31,0 | **31,0** |
| 24 | 62,0 | 67,0 | | 63,0 | 64,0 | 39,0 | 38,0 | 36,0 | 37,7 |
| 25 | 60,0 | 58,0 | | 61,0 | 59,7 | 34,0 | 34,0 | 35,0 | 34,3 |
| 26 | 61,0 | 57,0 | | 63,0 | 60,3 | 31,0 | 38,0 | 38,0 | 35,7 |
| 27 | 62,0 | 59,0 | | 61,0 | 60,7 | 38,0 | 41,0 | 33,0 | 37,3 |
| 28 | 64,0 | 57,0 | | 56,0 | 59,0 | 39,0 | 37,0 | 38,0 | 38,0 |
| 29 | 66,0 | 59,0 | | 58,0 | 61,0 | 43,0 | 37,0 | 35,0 | 38,3 |
| 30 | 61,0 | 55,0 | | 54,0 | 56,7 | 33,0 | 33,0 | 30,0 | 32,0 |
| 31 | 60,0 | 58,0 | | 56,0 | 58,0 | 32,0 | 34,0 | 39,0 | 35,0 |
| 32 | 58,0 | 56,0 | | 58,0 | **57,3** | 36,0 | 31,0 | 36,0 | 34,3 |
| 33 | 56,0 | 54,0 | | 53,0 | 54,3 | 38,0 | 32,0 | 31,0 | 33,7 |
| 34 | 60,0 | 57,0 | | 61,0 | 59,3 | 32,0 | 39,0 | 30,0 | 33,7 |
| 35 | 63,0 | 70,0 | | 71,0 | 68,0 | 34,0 | 34,0 | 32,0 | 33,3 |
| 36 | 61,0 | 65,0 | | 66,0 | 64,0 | 39,0 | 38,0 | 36,0 | 37,7 |
| 37 | 57,0 | 59,0 | | 61,0 | 59,0 | 41,0 | 42,0 | 35,0 | 39,3 |
| 38 | 59,0 | 56,0 | | 55,0 | 56,7 | 37,0 | 34,0 | 39,0 | 36,7 |
| 39 | 54,0 | 53,0 | | 57,0 | 54,7 | 44,0 | 40,0 | 34,0 | 39,3 |
| 40 | 57,0 | 58,0 | | 59,0 | 58,0 | 34,0 | 44,0 | 37,0 | 38,3 |
| 41 | 55,0 | 57,0 | | 61,0 | 57,7 | 47,0 | 54,0 | 39,0 | 46,7 |
| 42 | 58,0 | 64,0 | | 66,0 | 62,7 | 44,0 | 50,0 | 47,0 | 47,0 |
| 43 | 66,0 | 68,0 | | 72,0 | 68,7 | 56,0 | 54,0 | 51,0 | 53,7 |
| 44 | 71,0 | 65,0 | | 75,0 | 70,3 | 76,0 | 68,0 | 60,0 | 68,0 |
| 45 | 78,0 | 74,0 | | 67,0 | 73,0 | 69,0 | 75,0 | 74,0 | 72,7 |
| 46 | 68,0 | 65,0 | | 62,0 | 65,0 | 60,0 | 65,0 | 62,0 | 62,3 |
| 47 | 61,0 | 64,0 | | 60,0 | 61,7 | 55,0 | 58,0 | 61,0 | 58,0 |
| 48 | 63,0 | 66,0 | | 64,0 | 64,3 | 64,0 | 58,0 | 65,0 | 62,3 |
| 49 | 71,0 | 73,0 | | 75,0 | 73,0 | 68,0 | 65,0 | 60,0 | 64,3 |
| 50 | 59,0 | 68,0 | | 69,0 | 65,3 | 54,0 | 68,0 | 62,0 | 61,3 |
| 51 | 72,0 | 74,0 | | 82,0 | 76,0 | 73,0 | 69,0 | 80,0 | 74,0 |
| 52 | 79,0 | 81,0 | | 74,0 | **78,0** | 76,0 | 83,0 | 73,0 | **77,3** |
| 53 | 64,0 | 58,0 | | 65,0 | 62,3 | 60,0 | 59,0 | 57,0 | 58,7 |
| 54 | 63,0 | 61,0 | | 63,0 | 62,3 | 63,0 | 61,0 | 55,0 | 59,7 |
| 55 | 58,0 | 64,0 | | 61,0 | 61,0 | 56,0 | 60,0 | 58,0 | 58,0 |
| 56 | 74,0 | 66,0 | | 63,0 | 67,7 | 47,0 | 45,0 | 49,0 | 47,0 |
| 57 | 72,0 | 71,0 | | 80,0 | 74,3 | 64,0 | 67,0 | 54,0 | 61,7 |
| 58 | 60,0 | 67,0 | | 57,0 | 61,3 | 59,0 | 46,0 | 65,0 | 56,7 |
|  | **Average** | | | | **63,7** | **Average** | | | **51,6** |

**Table 2.** SPL measurements– Kusocińskiego Park.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Point no | Leafless period measurements [dBA] | | | | Leafy period measurements [dBA] | | | |
| **I** | **II** | **III** | **Average** | **I** | **II** | **III** | **Average** |
| 1 | 50 | 42 | 44 | 45,3 | 40,0 | 32,0 | 34,0 | 35,3 |
| 2 | 35 | 40 | 38 | 37,7 | 27,0 | 29,0 | 31,0 | **29,0** |
| 3 | 37 | 41 | 37 | 38,3 | 39,0 | 40,0 | 32,0 | 37,0 |
| 4 | 44 | 46 | 38 | 42,7 | 34,0 | 38,0 | 33,0 | 35,0 |
| 5 | 32 | 44 | 50 | 42,0 | 29,0 | 30,0 | 34,0 | 31,0 |
| 6 | 34 | 47 | 46 | 42,3 | 31,0 | 33,0 | 32,0 | 32,0 |
| 7 | 61 | 43 | 40 | 48,0 | 28,0 | 35,0 | 40,0 | 34,3 |
| 8 | 45 | 39 | 47 | 43,7 | 33,0 | 31,0 | 36,0 | 33,3 |
| 9 | 47 | 39 | 44 | 43,3 | 38,0 | 30,0 | 34,0 | 34,0 |
| 10 | 43 | 46 | 37 | 42,0 | 33,0 | 31,0 | 35,0 | 33,0 |
| 11 | 45 | 49 | 56 | 50,0 | 41,0 | 38,0 | 42,0 | 40,3 |
| 12 | 42 | 40 | 51 | 44,3 | 43,0 | 35,0 | 41,0 | 39,7 |
| 13 | 38 | 41 | 32 | **37,0** | 47,0 | 40,0 | 43,0 | 43,3 |
| 14 | 39 | 46 | 63 | 49,3 | 39,0 | 44,0 | 40,0 | 41,0 |
| 15 | 46 | 51 | 49 | 48,7 | 43,0 | 40,0 | 38,0 | 40,3 |
| 16 | 44 | 42 | 48 | 44,7 | 44,0 | 41,0 | 48,0 | 44,3 |
| 17 | 46 | 48 | 52 | 48,7 | 47,0 | 43,0 | 50,0 | 46,7 |
| 18 | 39 | 47 | 50 | 45,3 | 48,0 | 45,0 | 52,0 | 48,3 |
| 19 | 37 | 44 | 46 | 42,3 | 49,0 | 44,0 | 51,0 | 48,0 |
| 20 | 38 | 45 | 48 | 43,7 | 53,0 | 49,0 | 46,0 | 49,3 |
| 21 | 57 | 62 | 57 | 58,7 | 63,0 | 51,0 | 54,0 | 56,0 |
| 22 | 53 | 67 | 68 | 62,7 | 48,0 | 46,0 | 47,0 | 47,0 |
| 23 | 40 | 51 | 47 | 46,0 | 58,0 | 55,0 | 52,0 | 55,0 |
| 24 | 63 | 59 | 54 | 58,7 | 53,0 | 48,0 | 44,0 | 48,3 |
| 25 | 44 | 50 | 56 | 50,0 | 43,0 | 47,0 | 41,0 | 43,7 |
| 26 | 59 | 40 | 48 | 49,0 | 39,0 | 40,0 | 42,0 | 40,3 |
| 27 | 51 | 45 | 34 | 43,3 | 42,0 | 41,0 | 40,0 | 41,0 |
| 28 | 54 | 49 | 36 | 46,3 | 40,0 | 44,0 | 45,0 | 43,0 |
| 29 | 64 | 59 | 66 | **63,0** | 64,0 | 55,0 | 62,0 | **60,3** |
| 30 | 60 | 42 | 51 | 51,0 | 54,0 | 51,0 | 47,0 | 50,7 |
| 31 | 48 | 39 | 44 | 43,7 | 44,0 | 40,0 | 45,0 | 43,0 |
| 32 | 38 | 41 | 37 | 38,7 | 37,0 | 34,0 | 31,0 | 34,0 |
| 33 | 39 | 47 | 48 | 44,7 | 34,0 | 37,0 | 39,0 | 36,7 |
| 34 | 37 | 56 | 51 | 48,0 | 52,0 | 54,0 | 57,0 | 54,3 |
| 35 | 57 | 63 | 58 | 59,3 | 53,0 | 48,0 | 49,0 | 50,0 |
| 36 | 48 | 60 | 53 | 53,7 | 46,0 | 47,0 | 45,0 | 46,0 |
| 37 | 46 | 50 | 63 | 53,0 | 53,0 | 55,0 | 57,0 | 55,0 |
| 38 | 68 | 47 | 54 | 56,3 | 48,0 | 53,0 | 48,0 | 49,7 |
| 39 | 61 | 58 | 53 | 57,3 | 46,0 | 47,0 | 45,0 | 46,0 |
| 40 | 42 | 43 | 56 | 47,0 | 45,0 | 46,0 | 40,0 | 43,7 |
| 41 | 48 | 41 | 48 | 45,7 | 44,0 | 49,0 | 47,0 | 46,7 |
| 42 | 63 | 53 | 44 | 53,3 | 41,0 | 44,0 | 46,0 | 43,7 |
| 43 | 56 | 38 | 53 | 49,0 | 44,0 | 48,0 | 44,0 | 45,3 |
| 44 | 42 | 61 | 54 | 52,3 | 37,0 | 42,0 | 37,0 | 38,7 |
| 45 | 59 | 46 | 41 | 48,7 | 40,0 | 41,0 | 38,0 | 39,7 |
| 46 | 38 | 42 | 39 | 39,7 | 40,0 | 43,0 | 45,0 | 42,7 |
| 47 | 39 | 43 | 38 | 40,0 | 41,0 | 42,0 | 39,0 | 40,7 |
| 48 | 42 | 47 | 44 | 44,3 | 37,0 | 40,0 | 41,0 | 39,3 |
| 49 | 41 | 36 | 39 | 38,7 | 36,0 | 35,0 | 39,0 | 36,7 |
| 50 | 53 | 46 | 57 | 52,0 | 30,0 | 33,0 | 40,0 | 34,3 |
| 51 | 51 | 42 | 53 | 48,7 | 36,0 | 32,0 | 33,0 | 33,7 |
| 52 | 47 | 40 | 43 | 43,3 | 28,0 | 30,0 | 32,0 | 30,0 |
| 53 | 50 | 38 | 41 | 43,0 | 34,0 | 35,0 | 34,0 | 34,3 |
| 54 | 48 | 44 | 40 | 44,0 | 41,0 | 44,0 | 45,0 | 43,3 |
|  | **Average:** | | | **47,3** | **Average** | | | **42,0** |

**Table** 3. SPL measurements Podzamcze Park.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Point no | Leafless period measurements [dBA] | | | | Leafy period measurements [dBA] | | | |
| **I** | **II** | **III** | **Average** | **I** | **II** | **III** | **Average** |
| 1 | 54,0 | 47,0 | 57,0 | 52,7 | 54,0 | 53,0 | 49,0 | 52,0 |
| 2 | 48,0 | 49,0 | 42,0 | 46,3 | 41,0 | 50,0 | 41,0 | 44,0 |
| 3 | 69,0 | 43,0 | 46,0 | 52,7 | 50,0 | 37,0 | 41,0 | 42,7 |
| 4 | 39,0 | 34,0 | 32,0 | 35,0 | 30,0 | 29,0 | 29,0 | **29,3** |
| 5 | 33,0 | 30,0 | 34,0 | 32,3 | 31,0 | 27,0 | 30,0 | **29,3** |
| 6 | 31,0 | 56,0 | 40,0 | 42,3 | 28,0 | 45,0 | 31,0 | 34,7 |
| 7 | 37,0 | 40,0 | 45,0 | 40,7 | 34,0 | 34,0 | 35,0 | 34,3 |
| 8 | 39,0 | 36,0 | 43,0 | 39,3 | 33,0 | 31,0 | 40,0 | 34,7 |
| 9 | 40,0 | 42,0 | 36,0 | 39,3 | 34,0 | 36,0 | 30,0 | 33,3 |
| 10 | 37,0 | 42,0 | 34,0 | 37,7 | 41,0 | 42,0 | 44,0 | 42,3 |
| 11 | 54,0 | 37,0 | 44,0 | 45,0 | 46,0 | 47,0 | 43,0 | 45,3 |
| 12 | 40,0 | 52,0 | 44,0 | 45,3 | 41,0 | 46,0 | 38,0 | 41,7 |
| 13 | 45,0 | 42,0 | 48,0 | 45,0 | 48,0 | 51,0 | 53,0 | 50,7 |
| 14 | 38,0 | 34,0 | 36,0 | 36,0 | 35,0 | 37,0 | 30,0 | 34,0 |
| 15 | 50,0 | 47,0 | 43,0 | 46,7 | 42,0 | 41,0 | 39,0 | 40,7 |
| 16 | 35,0 | 38,0 | 36,0 | 36,3 | 30,0 | 31,0 | 29,0 | 30,0 |
| 17 | 35,0 | 38,0 | 44,0 | 39,0 | 40,0 | 45,0 | 47,0 | 44,0 |
| 18 | 32,0 | 30,0 | 35,0 | 32,3 | 42,0 | 44,0 | 46,0 | 44,0 |
| 19 | 38,0 | 37,0 | 40,0 | 38,3 | 32,0 | 31,0 | 31,0 | 31,3 |
| 20 | 43,0 | 36,0 | 34,0 | 37,7 | 35,0 | 32,0 | 30,0 | 32,3 |
| 21 | 46,0 | 50,0 | 53,0 | 49,7 | 40,0 | 42,0 | 40,0 | 40,7 |
| 22 | 33,0 | 41,0 | 37,0 | 37,0 | 30,0 | 34,0 | 31,0 | 31,7 |
| 23 | 30,0 | 29,0 | 33,0 | **30,7** | 27,0 | 31,0 | 30,0 | **29,3** |
| 24 | 44,0 | 48,0 | 37,0 | 43,0 | 37,0 | 41,0 | 34,0 | 37,3 |
| 25 | 48,0 | 52,0 | 55,0 | 51,7 | 42,0 | 44,0 | 45,0 | 43,7 |
| 26 | 40,0 | 34,0 | 37,0 | 37,0 | 38,0 | 28,0 | 30,0 | 32,0 |
| 27 | 32,0 | 38,0 | 46,0 | 38,7 | 30,0 | 31,0 | 39,0 | 33,3 |
| 28 | 52,0 | 57,0 | 70,0 | **59,7** | 47,0 | 48,0 | 51,0 | 48,7 |
| 29 | 56,0 | 60,0 | 54,0 | 56,7 | 46,0 | 52,0 | 48,0 | 48,7 |
| 30 | 44,0 | 39,0 | 47,0 | 43,3 | 56,0 | 52,0 | 61,0 | **56,3** |
| 31 | 47,0 | 42,0 | 45,0 | 44,7 | 40,0 | 56,0 | 45,0 | 47,0 |
| 32 | 60,0 | 40,0 | 46,0 | 48,7 | 49,0 | 43,0 | 46,0 | 46,0 |
| 33 | 44,0 | 42,0 | 39,0 | 41,7 | 40,0 | 37,0 | 33,0 | 36,7 |
| 34 | 50,0 | 48,0 | 37,0 | 45,0 | 41,0 | 43,0 | 32,0 | 38,7 |
| 35 | 52,0 | 61,0 | 58,0 | 57,0 | 53,0 | 60,0 | 55,0 | 56,0 |
| 36 | 42,0 | 50,0 | 49,0 | 47,0 | 37,0 | 39,0 | 43,0 | 39,7 |
| 37 | 54,0 | 44,0 | 49,0 | 49,0 | 45,0 | 41,0 | 39,0 | 41,7 |
| 38 | 64,0 | 52,0 | 58,0 | 58,0 | 58,0 | 58,0 | 48,0 | 54,7 |
|  | **Average:** | | | **43,6** | **Average:** | | | **40,3** |