SMT 1

Monthly-Vegetational Distribution of Lycaenidae species in the Loxicha region, Oaxaca, Mexico

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **sp**. | **J** | **F** | **M** | **A** | **M** | **J** | **J** | **A** | **S** | **O** | **N** | **D** | **Total** | **TDF** | **TSDF** | **CF** | **OPCF** | **BPE** |
|  | **0-500** | **500-1 500** | **1 500-2 000** | **> 2 000** |
| 119 | 13 |  | 20 | 18 | 24 | 70 | 91 | 73 | 53 | 47 | 2 |  | **413** | 8 | 295 | 83 | 20 | 7 |
| 115 | 38 | 1 | 10 | 19 | 30 | 86 | 52 | 7 | 20 | 86 | 15 | 14 | **378** | 85 | 133 | 139 | 21 |  |
| 120 | 30 |  | 46 | 32 | 88 | 31 | 5 | 43 | 9 | 34 | 5 |  | **323** | 1 | 15 | 38 | 263 | 6 |
| 49 | 10 | 1 | 24 | 13 | 49 | 11 | 27 | 1 | 68 | 53 | 4 | 1 | **262** | 16 | 171 | 70 | 5 |  |
| 14 | 4 |  | 2 | 17 | 66 | 18 | 31 | 28 | 47 | 29 |  |  | **242** | 7 | 208 | 26 | 1 |  |
| 121 | 12 |  | 31 | 17 | 45 | 48 | 51 | 8 | 3 | 4 | 2 | 1 | **222** | 76 | 122 | 20 | 4 |  |
| 89 | 13 |  | 4 | 3 | 11 | 12 | 14 | 17 | 57 | 20 | 18 |  | **169** | 2 | 70 | 97 |  |  |
| 79 | 1 |  | 4 | 4 | 81 | 38 | 5 |  | 21 | 3 |  |  | **157** | 6 | 150 | 1 |  |  |
| 59 | 17 |  | 12 | 6 | 9 | 12 | 21 | 15 | 19 | 26 | 7 | 4 | **148** | 10 | 56 | 80 | 2 |  |
| 117 | 37 |  | 33 | 23 | 27 | 2 |  |  |  |  |  |  | **122** |  | 12 | 110 |  |  |
| 43 |  |  | 4 | 1 | 9 | 4 | 22 | 38 | 1 | 22 | 7 |  | **108** |  |  | 102 | 6 |  |
| 74 | 2 |  | 7 | 31 | 42 | 3 | 2 | 7 | 2 | 5 |  |  | **101** |  | 90 | 10 | 1 |  |
| 54 | 10 | 1 | 3 | 6 | 23 | 18 | 9 | 3 | 5 | 2 |  | 1 | **81** | 4 | 62 | 14 | 1 |  |
| 97 | 2 |  | 7 | 6 | 22 | 9 | 9 | 6 | 5 | 13 | 2 |  | **81** | 1 | 54 | 25 | 1 |  |
| 64 | 29 |  | 4 |  | 7 | 4 | 6 | 1 | 21 | 8 |  |  | **80** | 7 | 44 | 29 |  |  |
| 65 | 4 |  | 6 | 5 | 25 | 27 | 2 | 1 |  | 6 |  |  | **76** |  | 41 | 30 | 5 |  |
| 24 |  |  | 3 | 2 | 20 | 21 | 3 | 8 | 11 | 4 |  |  | **72** |  | 54 | 17 | 1 |  |
| 116 |  |  | 5 | 18 | 20 | 6 | 9 | 8 |  | 3 | 1 |  | **70** | 36 | 15 | 10 | 9 |  |
| 47 |  |  | 3 | 9 | 34 | 11 | 2 | 1 |  | 1 |  |  | **61** |  | 60 | 1 |  |  |
| 101 | 3 |  | 1 |  | 16 | 23 | 4 | 1 | 10 | 2 |  |  | **60** |  | 54 | 6 |  |  |
| 44 | 3 |  | 1 | 5 | 17 | 7 |  | 2 | 9 | 15 |  |  | **59** | 2 | 30 | 2 | 25 |  |
| 45 |  |  |  | 2 | 30 | 16 | 2 |  | 3 | 3 | 2 |  | **58** | 1 | 52 | 3 | 1 | 1 |
| 41 | 2 |  | 2 | 5 | 32 | 4 | 10 |  |  | 2 |  |  | **57** | 1 | 54 |  | 2 |  |
| 83 | 2 |  | 3 | 3 | 16 | 1 | 15 | 4 | 9 | 1 |  |  | **54** | 7 | 31 | 8 | 8 |  |
| 26 | 1 |  |  |  |  | 1 |  |  | 2 | 47 | 1 |  | **52** | 1 |  | 3 | 48 |  |
| 72 |  |  | 3 | 1 | 10 | 4 | 8 |  | 19 | 4 | 1 | 1 | **50** | 8 | 40 | 2 |  |  |
| 106 |  |  | 6 | 19 | 12 |  |  | 1 |  | 11 |  |  | **49** |  |  |  | 48 | 1 |
| 104 | 1 |  | 2 | 1 | 3 | 3 | 4 | 5 | 2 | 25 |  | 1 | **47** | 1 | 4 | 33 | 9 |  |
| 21 | 5 | 3 | 3 | 5 | 11 |  | 1 |  |  | 14 | 1 |  | **43** |  |  | 10 | 31 | 2 |
| 114 |  |  |  |  | 6 | 2 | 2 | 1 | 29 | 3 |  |  | **43** |  | 41 |  | 2 |  |
| 60 |  |  | 2 | 4 | 8 | 3 |  | 10 |  | 15 |  |  | **42** |  | 1 |  | 41 |  |
| 88 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 28 | 2 | 1 |  | **42** |  | 39 | 3 |  |  |
| 122 | 7 | 1 | 11 | 5 | 6 | 6 |  |  |  | 6 |  |  | **42** |  | 1 | 19 | 20 | 2 |
| 102 |  |  |  | 2 | 15 | 6 | 7 | 3 | 5 | 1 |  |  | **39** |  | 37 | 2 |  |  |
| 53 |  |  |  | 3 | 6 | 2 | 4 |  | 20 | 2 |  |  | **37** |  | 37 |  |  |  |
| 103 |  |  | 2 | 1 | 11 | 8 | 3 |  | 6 | 1 |  |  | **32** | 3 | 28 | 1 |  |  |
| 70 |  |  | 2 | 2 | 2 | 2 | 4 |  | 3 | 14 | 1 | 1 | **31** | 2 | 14 | 15 |  |  |
| 40 |  |  | 9 | 5 | 12 | 1 | 1 |  |  | 1 |  |  | **29** | 1 | 28 |  |  |  |
| 28 |  |  | 1 | 2 | 15 | 5 | 1 |  | 1 |  |  | 1 | **26** | 1 | 24 | 1 |  |  |
| 85 |  |  |  | 2 | 12 | 5 | 3 |  | 2 | 1 |  |  | **25** |  | 24 | 1 |  |  |
| 2 | 12 |  |  |  |  |  | 4 | 3 | 4 | 1 |  |  | **24** |  | 4 | 20 |  |  |
| 87 |  |  |  |  | 11 | 10 |  |  | 3 |  |  |  | **24** |  | 24 |  |  |  |
| 20 | 1 |  |  | 1 | 12 | 8 |  |  | 1 |  |  |  | **23** |  | 20 | 1 | 1 | 1 |
| 8 |  |  |  | 1 |  |  |  |  | 4 | 17 |  |  | **22** |  | 1 |  | 21 |  |
| 82 |  |  |  | 1 | 9 | 5 | 1 | 1 | 4 | 1 |  |  | **22** |  | 20 | 1 | 1 |  |
| 105 |  |  |  |  | 6 | 1 | 1 | 10 | 2 | 2 |  |  | **22** |  | 2 | 10 | 10 |  |
| 91 |  |  |  | 2 |  | 4 | 2 | 1 | 9 | 2 |  |  | **20** |  | 18 | 2 |  |  |
| 67 | 6 |  | 3 | 3 | 3 | 1 | 1 |  |  | 2 |  |  | **19** |  | 11 | 6 | 2 |  |
| 35 | 1 |  |  |  | 1 |  | 3 |  | 10 | 3 |  |  | **18** |  | 16 | 2 |  |  |
| 62 | 3 |  | 5 |  | 3 | 5 |  |  | 1 | 1 |  |  | **18** | 6 | 10 | 2 |  |  |
| 94 | 1 | 1 | 1 |  | 2 |  | 1 | 4 | 4 | 3 |  |  | **18** |  | 17 | 1 |  |  |
| 19 | 6 |  | 1 |  | 3 |  |  | 3 | 3 |  | 1 |  | **17** |  | 5 | 12 |  |  |
| 86 |  |  |  | 4 | 4 | 3 | 1 |  | 5 |  |  |  | **17** |  | 17 |  |  |  |
| 37 |  |  | 3 | 1 | 4 | 5 |  |  | 1 | 2 |  |  | **16** | 1 | 11 | 3 | 1 |  |
| 63 | 1 |  | 2 | 4 | 4 | 2 | 2 |  |  | 1 |  |  | **16** | 5 | 11 |  |  |  |
| 29 |  |  |  |  | 7 | 3 | 4 |  |  |  |  |  | **14** |  | 14 |  |  |  |
| 55 |  |  |  |  | 4 | 2 |  |  | 8 |  |  |  | **14** |  | 14 |  |  |  |
| 66 | 1 |  | 1 | 2 | 1 | 4 | 5 |  |  |  |  |  | **14** | 4 | 7 | 1 | 2 |  |
| 71 | 2 |  |  | 5 | 1 | 1 | 2 |  |  | 1 | 2 |  | **14** | 2 | 8 | 4 |  |  |
| 90 |  |  |  |  | 5 | 1 | 1 | 3 | 1 | 3 |  |  | **14** |  | 10 | 4 |  |  |
| 38 |  |  |  | 1 | 7 | 2 | 1 |  | 1 | 1 |  |  | **13** |  | 13 |  |  |  |
| 99 |  |  |  |  | 13 |  |  |  |  |  |  |  | **13** |  | 11 |  | 1 | 1 |
| 17 |  |  |  |  | 1 | 2 | 1 |  | 8 |  |  |  | **12** |  | 12 |  |  |  |
| 57 |  |  |  | 1 | 1 | 4 | 2 | 2 | 2 |  |  |  | **12** |  | 11 | 1 |  |  |
| 109 |  |  |  |  | 4 | 3 |  |  | 2 | 3 |  |  | **12** |  | 11 | 1 |  |  |
| 10 |  |  |  |  | 7 | 3 | 1 |  |  |  |  |  | **11** |  | 11 |  |  |  |
| 15 |  |  |  |  |  |  |  | 1 | 10 |  |  |  | **11** |  | 10 | 1 |  |  |
| 56 |  |  |  | 1 | 2 | 4 | 1 | 2 |  |  |  | 1 | **11** |  | 10 | 1 |  |  |
| 76 |  |  |  |  |  | 1 | 3 | 5 |  |  |  |  | **11** |  | 11 |  |  |  |
| 123 |  |  |  |  | 10 | 1 |  |  |  |  |  |  | **11** |  | 10 | 1 |  |  |
| 3 |  |  |  | 1 | 1 |  |  |  | 2 | 6 |  |  | **10** |  | 1 |  | 7 | 2 |
| 1 | 2 |  | 3 |  |  |  | 1 | 1 | 1 | 1 |  |  | **9** |  | 1 | 8 |  |  |
| 9 |  |  |  |  | 4 | 2 | 3 |  |  |  |  |  | **9** |  | 9 |  |  |  |
| 51 | 1 |  |  |  | 1 | 2 | 2 |  | 3 |  |  |  | **9** | 1 | 6 | 2 |  |  |
| 107 |  |  | 2 |  | 1 |  |  |  | 2 | 3 |  |  | **8** |  |  |  | 8 |  |
| 7 |  |  |  |  |  | 3 | 1 | 1 | 2 |  |  |  | **7** |  | 7 |  |  |  |
| 27 |  |  |  |  | 5 | 1 |  |  |  | 1 |  |  | **7** |  | 7 |  |  |  |
| 34 |  |  |  |  | 4 |  | 1 |  | 1 | 1 |  |  | **7** |  | 6 |  | 1 |  |
| 12 |  |  |  |  | 4 |  |  |  | 1 | 1 |  |  | **6** |  | 5 | 1 |  |  |
| 25 |  |  |  |  |  |  |  | 2 |  | 1 |  |  | **6** |  | 6 |  |  |  |
| 75 |  |  |  |  | 1 | 1 | 3 |  | 1 |  |  |  | **6** |  | 2 | 4 |  |  |
| 98 |  |  | 2 | 2 | 1 |  |  |  | 1 |  |  |  | **6** | 1 | 3 |  | 2 |  |
| 111 |  |  |  |  | 1 |  | 2 | 1 | 1 | 1 |  |  | **6** |  | 6 |  |  |  |
| 13 |  | 1 |  |  |  |  |  |  | 2 |  | 1 |  | **5** |  | 3 | 2 |  |  |
| 50 |  |  | 1 |  | 1 | 2 |  | 1 |  |  |  |  | **5** |  |  | 4 | 1 |  |
| 58 | 2 |  |  |  |  |  | 1 |  |  |  |  | 2 | **5** |  |  | 5 |  |  |
| 68 | 1 |  |  | 1 | 3 |  |  |  |  |  |  |  | **5** |  | 3 | 1 | 1 |  |
| 73 | 1 |  |  |  |  |  |  |  |  | 4 |  |  | **5** |  |  | 4 | 1 |  |
| 77 |  |  |  |  |  |  | 1 | 1 | 1 | 1 |  |  | **4** | 1 | 3 |  |  |  |
| 113 |  |  |  | 1 | 3 |  |  |  |  |  |  |  | **4** |  | 4 |  |  |  |
| 16 |  |  |  |  |  |  |  | 2 |  | 1 |  |  | **3** |  |  | 3 |  |  |
| 31 | 1 |  |  |  |  |  |  | 1 | 1 |  |  |  | **3** |  |  | 2 | 1 |  |
| 32 |  |  |  | 1 |  |  |  | 1 | 1 |  |  |  | **3** |  | 2 | 1 |  |  |
| 78 |  |  |  |  |  | 1 |  | 1 | 1 |  |  |  | **3** | 1 | 2 |  |  |  |
| 18 |  |  | 2 |  |  |  |  |  |  |  |  |  | **2** |  |  | 2 |  |  |
| 22 | 1 |  | 1 |  |  |  |  |  |  |  |  |  | **2** |  | 1 | 1 |  |  |
| 30 |  |  |  | 1 | 1 |  |  |  |  |  |  |  | **2** |  | 1 |  | 1 |  |
| 33 |  |  |  |  | 2 |  |  |  |  |  |  |  | **2** |  | 2 |  |  |  |
| 42 |  |  |  |  | 2 |  |  |  |  |  |  |  | **2** |  | 2 |  |  |  |
| 48 |  |  |  |  |  |  |  | 1 | 1 |  |  |  | **2** |  | 2 |  |  |  |
| 61 |  |  |  |  | 2 |  |  |  |  |  |  |  | **2** |  | 2 |  |  |  |
| 69 |  |  |  |  | 1 |  |  |  | 1 |  |  |  | **2** |  | 1 | 1 |  |  |
| 80 |  |  |  |  |  | 1 |  | 1 |  |  |  |  | **2** |  | 2 |  |  |  |
| 100 |  |  |  |  |  |  | 1 |  |  | 1 |  |  | **2** |  | 2 |  |  |  |
| 108 |  |  |  |  |  |  |  |  |  | 2 |  |  | **2** |  |  |  | 2 |  |
| 110 |  |  |  |  | 1 |  |  |  | 1 |  |  |  | **2** |  | 2 |  |  |  |
| 112 |  |  |  |  |  | 1 | 1 |  |  |  |  |  | **2** |  | 2 |  |  |  |
| 118 |  |  |  |  | 1 |  | 1 |  |  |  |  |  | **2** |  | 1 | 1 |  |  |
| 4 |  |  |  |  |  |  | 1 |  |  |  |  |  | **1** |  | 1 |  |  |  |
| 5 |  |  |  |  |  |  | 1 |  |  |  |  |  | **1** |  |  | 1 |  |  |
| 6 |  |  |  |  |  |  | 1 |  |  |  |  |  | **1** |  | 1 |  |  |  |
| 11 |  |  |  |  |  |  |  | 1 |  |  |  |  | **1** |  |  | 1 |  |  |
| 23 |  |  |  |  | 1 |  |  |  |  |  |  |  | **1** |  | 1 |  |  |  |
| 36 |  |  |  |  |  |  |  |  |  | 1 |  |  | **1** |  | 1 |  |  |  |
| 39 | 1 |  |  |  |  |  |  |  |  |  |  |  | **1** |  | 1 |  |  |  |
| 46 |  |  |  |  |  |  |  |  |  | 1 |  |  | **1** |  |  | 1 |  |  |
| 52 |  |  |  |  |  |  |  |  |  | 1 |  |  | **1** |  |  |  | 1 |  |
| 81 |  |  |  |  |  |  | 1 |  |  |  |  |  | **1** |  | 1 |  |  |  |
| 84 | 1 |  |  |  |  |  |  |  |  |  |  |  | **1** |  |  | 1 |  |  |
| 92 |  |  |  |  |  |  |  |  |  |  |  | 1 | **1** |  |  | 1 |  |  |
| 93 |  |  |  |  |  |  |  |  |  | 1 |  |  | **1** |  |  | 1 |  |  |
| 95 |  |  |  |  |  |  |  |  |  | 1 |  |  | **1** |  |  | 1 |  |  |
| 96 |  |  |  |  |  |  | 1 |  |  |  |  |  | **1** |  |  | 1 |  |  |
| **Sp.** | **43** | **8** | **47** | **55** | **85** | **70** | **71** | **50** | **68** | **71** | **19** | **12** | **124** | **33** | **102** | **78** | **44** | **9** |
| **n** | **292** | **10** | **305** | **332** | **1 040** | **620** | **491** | **344** | **597** | **608** | **74** | **29** | **4 747** | **309** | **2 644** | **1 136** | **640** | **23** |

The records were obtained from 219 sampling days over seven years (2005, 2007, 2008, 2011–2014) in 21 sites across eight municipalities. The species are ordered from highest to lowest abundance. The first column (sp.) corresponds to the species identification number from the species list in the Results section. The next 12 columns represent the months of the year. Column 14 (Total) shows the total number of records for each species. The following five columns represent the specimens recorded in each vegetation type. TDF (tropical deciduous forest), TSDF (tropical subdeciduous forest), CF (cloud forest), OPCF (oak-pine forest with elements of high-altitude cloud forest), OPF (oak-pine forest). These five columns also indicate the altitudinal distribution according to the established intervals. In the last two rows, the total number of species and specimens per month, vegetation type, and altitudinal zone are shown.