Giljov, A., and K. Karenina. 2024. Social arenas in the open habitat: the social role of waterholes for saiga antelope. Therya. DOI:10.12933/therya-24-5908

**Supplementary material**

**Table S1 Raw data: frequency of active social interactions within saiga groups**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Waterhole 1** | | | | |  | **Waterhole 2** | | | | |
| # group | **Near the waterhole** |  | # group | **Away from the waterhole** | # group | **Near the waterhole** |  | # group | **Away from the waterhole** |
| 1 | 6 | 85 | 9 | 105 | 27 | 133 | 2 |
| 2 | 34 | 86 | 7 | 106 | 18 | 134 | 9 |
| 3 | 45 | 87 | 0 | 107 | 8 | 135 | 10 |
| 4 | 40 | 88 | 1 | 108 | 7 | 136 | 9 |
| 5 | 24 | 89 | 2 | 109 | 7 | 137 | 1 |
| 6 | 4 | 90 | 13 | 110 | 9 | 138 | 7 |
| 7 | 1 | 91 | 8 | 111 | 12 | 139 | 1 |
| 8 | 45 | 92 | 10 | 112 | 5 | 140 | 1 |
| 9 | 36 | 93 | 5 | 113 | 10 | 141 | 7 |
| 10 | 30 | 94 | 11 | 114 | 1 | 142 | 4 |
| 11 | 27 | 95 | 1 | 115 | 1 | 143 | 0 |
| 12 | 6 | 96 | 0 | 116 | 5 | 144 | 5 |
| 13 | 52 | 97 | 1 | 117 | 10 | 145 | 4 |
| 14 | 34 | 98 | 2 | 118 | 3 | 146 | 7 |
| 15 | 5 | 99 | 29 | 119 | 0 | 147 | 9 |
| 16 | 6 | 100 | 15 | 120 | 4 | 148 | 1 |
| 17 | 18 | 101 | 1 | 121 | 5 | 149 | 7 |
| 18 | 40 | 102 | 0 | 122 | 11 | 150 | 10 |
| 19 | 54 | 103 | 2 | 123 | 7 | 151 | 8 |
| 20 | 2 | 104 | 7 | 124 | 0 | 152 | 4 |
| 21 | 31 | 105 | 1 | 125 | 8 | 153 | 9 |
| 22 | 35 | 106 | 9 | 126 | 13 | 154 | 4 |
| 23 | 19 | 107 | 16 | 127 | 1 | 155 | 0 |
| 24 | 21 | 108 | 4 | 128 | 7 | 156 | 4 |
| 25 | 18 | 109 | 5 | 129 | 15 | 157 | 1 |
| 26 | 10 | 110 | 1 | 130 | 8 | 158 | 6 |
| 27 | 54 | 111 | 3 | 131 | 9 | 159 | 4 |
| 28 | 3 | 112 | 2 | 132 | 28 | 160 | 3 |
| 29 | 33 | 113 | 10 |  |  | 161 | 1 |
| 30 | 6 | 114 | 9 |  |  | 162 | 8 |
| 31 | 28 | 115 | 4 |  |  | 163 | 5 |
| 32 | 31 | 116 | 0 |  |  | 164 | 8 |
| 33 | 17 | 117 | 11 |  |  | 165 | 3 |
| 34 | 2 | 118 | 0 |  |  | 166 | 1 |
| 35 | 19 | 119 | 4 |  |  | 167 | 7 |
| 36 | 37 | 120 | 0 |  |  | 168 | 10 |
| 37 | 33 | 121 | 14 |  |  | 169 | 11 |
| 38 | 51 | 122 | 5 |  |  | 170 | 5 |
| 39 | 46 | 123 | 11 |  |  | 171 | 5 |
| 40 | 17 | 124 | 8 |  |  | 172 | 6 |
| 41 | 33 | 125 | 3 |  |  | 173 | 2 |
| 42 | 39 | 126 | 3 |  |  | 174 | 11 |
| 43 | 23 | 127 | 1 |  |  | 175 | 2 |
| 44 | 11 |  |  |  |  | 176 | 1 |
| 45 | 35 |  |  |  |  | 177 | 9 |
| 46 | 6 |  |  |  |  | 178 | 0 |
| 47 | 3 |  |  |  |  | 179 | 5 |
| 48 | 42 |  |  |  |  | 180 | 7 |
| 49 | 19 |  |  |  |  | 181 | 5 |
| 50 | 34 |  |  |  |  |  |  |
| 51 | 17 |  |  |  |  |  |  |
| 52 | 10 |  |  |  |  |  |  |
| 53 | 33 |  |  |  |  |  |  |
| 54 | 17 |  |  |  |  |  |  |
| 55 | 5 |  |  |  |  |  |  |
| 56 | 27 |  |  |  |  |  |  |
| 57 | 16 |  |  |  |  |  |  |
| 58 | 11 |  |  |  |  |  |  |
| 59 | 2 |  |  |  |  |  |  |
| 60 | 0 |  |  |  |  |  |  |
| 61 | 4 |  |  |  |  |  |  |
| 62 | 4 |  |  |  |  |  |  |
| 63 | 0 |  |  |  |  |  |  |
| 64 | 14 |  |  |  |  |  |  |
| 65 | 33 |  |  |  |  |  |  |
| 66 | 21 |  |  |  |  |  |  |
| 67 | 17 |  |  |  |  |  |  |
| 68 | 16 |  |  |  |  |  |  |
| 69 | 29 |  |  |  |  |  |  |
| 70 | 42 |  |  |  |  |  |  |
| 71 | 37 |  |  |  |  |  |  |
| 72 | 7 |  |  |  |  |  |  |
| 73 | 17 |  |  |  |  |  |  |
| 74 | 25 |  |  |  |  |  |  |
| 75 | 4 |  |  |  |  |  |  |
| 76 | 12 |  |  |  |  |  |  |
| 77 | 4 |  |  |  |  |  |  |
| 78 | 30 |  |  |  |  |  |  |
| 79 | 11 |  |  |  |  |  |  |
| 80 | 5 |  |  |  |  |  |  |
| 81 | 4 |  |  |  |  |  |  |
| 82 | 17 |  |  |  |  |  |  |
| 83 | 15 |  |  |  |  |  |  |
| 84 | 6 |  |  |  |  |  |  |

**Table S2 Raw data: variety (number of types) of active social interactions within saiga groups**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Waterhole 1** | | | | |  | **Waterhole 2** | | | | |
| # group | **Near the waterhole** |  | # group | **Away from the waterhole** | # group | **Near the waterhole** |  | # group | **Away from the waterhole** |
| 1 | 3 | 1 | 1 | 1 | 8 | 1 | 1 |
| 2 | 4 | 2 | 1 | 2 | 5 | 2 | 1 |
| 3 | 12 | 3 | 0 | 3 | 3 | 3 | 2 |
| 4 | 2 | 4 | 1 | 4 | 1 | 4 | 1 |
| 5 | 12 | 5 | 1 | 5 | 2 | 5 | 1 |
| 6 | 3 | 6 | 2 | 6 | 2 | 6 | 2 |
| 7 | 1 | 7 | 1 | 7 | 3 | 7 | 1 |
| 8 | 9 | 8 | 2 | 8 | 1 | 8 | 1 |
| 9 | 1 | 9 | 1 | 9 | 4 | 9 | 1 |
| 10 | 6 | 10 | 3 | 10 | 1 | 10 | 1 |
| 11 | 2 | 11 | 1 | 11 | 1 | 11 | 0 |
| 12 | 4 | 12 | 0 | 12 | 1 | 12 | 2 |
| 13 | 14 | 13 | 1 | 13 | 4 | 13 | 1 |
| 14 | 11 | 14 | 1 | 14 | 1 | 14 | 1 |
| 15 | 4 | 15 | 6 | 15 | 0 | 15 | 1 |
| 16 | 4 | 16 | 4 | 16 | 1 | 16 | 1 |
| 17 | 3 | 17 | 1 | 17 | 1 | 17 | 2 |
| 18 | 11 | 18 | 0 | 18 | 4 | 18 | 3 |
| 19 | 4 | 19 | 1 | 19 | 1 | 19 | 1 |
| 20 | 1 | 20 | 1 | 20 | 0 | 20 | 1 |
| 21 | 9 | 21 | 1 | 21 | 1 | 21 | 2 |
| 22 | 3 | 22 | 2 | 22 | 3 | 22 | 3 |
| 23 | 3 | 23 | 3 | 23 | 1 | 23 | 0 |
| 24 | 4 | 24 | 1 | 24 | 1 | 24 | 1 |
| 25 | 4 | 25 | 1 | 25 | 5 | 25 | 1 |
| 26 | 2 | 26 | 1 | 26 | 2 | 26 | 1 |
| 27 | 13 | 27 | 1 | 27 | 1 | 27 | 1 |
| 28 | 1 | 28 | 1 | 28 | 4 | 28 | 1 |
| 29 | 8 | 29 | 2 |  |  | 29 | 1 |
| 30 | 2 | 30 | 1 |  |  | 30 | 2 |
| 31 | 6 | 31 | 1 |  |  | 31 | 1 |
| 32 | 7 | 32 | 0 |  |  | 32 | 3 |
| 33 | 1 | 33 | 3 |  |  | 33 | 1 |
| 34 | 1 | 34 | 0 |  |  | 34 | 1 |
| 35 | 9 | 35 | 1 |  |  | 35 | 1 |
| 36 | 4 | 36 | 0 |  |  | 36 | 3 |
| 37 | 1 | 37 | 3 |  |  | 37 | 2 |
| 38 | 11 | 38 | 1 |  |  | 38 | 1 |
| 39 | 8 | 39 | 2 |  |  | 39 | 1 |
| 40 | 4 | 40 | 1 |  |  | 40 | 2 |
| 41 | 9 | 41 | 2 |  |  | 41 | 1 |
| 42 | 5 | 42 | 1 |  |  | 42 | 3 |
| 43 | 3 | 43 | 1 |  |  | 43 | 1 |
| 44 | 2 |  |  |  |  | 44 | 1 |
| 45 | 5 |  |  |  |  | 45 | 1 |
| 46 | 1 |  |  |  |  | 46 | 0 |
| 47 | 1 |  |  |  |  | 47 | 2 |
| 48 | 10 |  |  |  |  | 48 | 1 |
| 49 | 4 |  |  |  |  | 49 | 1 |
| 50 | 7 |  |  |  |  |  |  |
| 51 | 2 |  |  |  |  |  |  |
| 52 | 1 |  |  |  |  |  |  |
| 53 | 4 |  |  |  |  |  |  |
| 54 | 3 |  |  |  |  |  |  |
| 55 | 1 |  |  |  |  |  |  |
| 56 | 3 |  |  |  |  |  |  |
| 57 | 2 |  |  |  |  |  |  |
| 58 | 1 |  |  |  |  |  |  |
| 59 | 1 |  |  |  |  |  |  |
| 60 | 0 |  |  |  |  |  |  |
| 61 | 1 |  |  |  |  |  |  |
| 62 | 1 |  |  |  |  |  |  |
| 63 | 0 |  |  |  |  |  |  |
| 64 | 2 |  |  |  |  |  |  |
| 65 | 4 |  |  |  |  |  |  |
| 66 | 3 |  |  |  |  |  |  |
| 67 | 2 |  |  |  |  |  |  |
| 68 | 3 |  |  |  |  |  |  |
| 69 | 5 |  |  |  |  |  |  |
| 70 | 5 |  |  |  |  |  |  |
| 71 | 12 |  |  |  |  |  |  |
| 72 | 1 |  |  |  |  |  |  |
| 73 | 2 |  |  |  |  |  |  |
| 74 | 4 |  |  |  |  |  |  |
| 75 | 1 |  |  |  |  |  |  |
| 76 | 2 |  |  |  |  |  |  |
| 77 | 1 |  |  |  |  |  |  |
| 78 | 3 |  |  |  |  |  |  |
| 79 | 1 |  |  |  |  |  |  |
| 80 | 1 |  |  |  |  |  |  |
| 81 | 1 |  |  |  |  |  |  |
| 82 | 2 |  |  |  |  |  |  |
| 83 | 3 |  |  |  |  |  |  |
| 84 | 2 |  |  |  |  |  |  |

**Table S3 Raw data: Duration of saiga visits to the waterhole, min**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Young males** | | | |  | **Adult males** | | | |  | **Females with calves** | | | |
| **#** | **Interactive** | **#** | **Noninteractive** | | **#** | **Interactive** | **#** | **Noninteractive** |  | **#** | **Interactive** | **#** | **Noninteractive** |
| 1 | 13 | 1 |  | 3 | 1 | 4 | 1 | 7 |  | 1 | 9 | 1 | 2 |
| 2 | 1 | 2 |  | 66 | 2 | 39 | 2 | 4 |  | 2 | 13 | 2 | 7 |
| 3 | 12 | 3 |  | 5 | 3 | 41 | 3 | 5 |  | 3 | 10 | 3 | 9 |
| 4 | 40 | 4 |  | 24 | 4 | 15 | 4 | 6 |  | 4 | 11 | 4 | 6 |
| 5 | 21 | 5 |  | 6 | 5 | 7 | 5 | 1 |  | 5 | 7 | 5 | 4 |
| 6 | 60 | 6 |  | 7 | 6 | 6 | 6 | 9 |  | 6 | 4 | 6 | 1 |
| 7 | 12 | 7 |  | 11 | 7 | 8 | 7 | 26 |  | 7 | 13 | 7 | 6 |
| 8 | 21 | 8 |  | 5 | 8 | 38 | 8 | 1 |  | 8 | 7 | 8 | 11 |
| 9 | 4 | 9 |  | 17 | 9 | 4 | 9 | 7 |  | 9 | 7 | 9 | 7 |
| 10 | 21 | 10 |  | 10 | 10 | 13 | 10 | 1 |  | 10 | 3 | 10 | 3 |
| 11 | 19 | 11 |  | 13 | 11 | 7 | 11 | 12 |  | 11 | 2 | 11 | 1 |
| 12 | 20 | 12 |  | 7 | 12 | 37 | 12 | 11 |  | 12 | 28 | 12 | 4 |
| 13 | 27 | 13 |  | 37 | 13 | 9 | 13 | 11 |  | 13 | 7 | 13 | 8 |
| 14 | 7 | 14 |  | 6 | 14 | 7 | 14 | 6 |  | 14 | 4 | 14 | 5 |
| 15 | 5 | 15 |  | 70 | 15 | 26 | 15 | 4 |  | 15 | 7 | 15 | 12 |
| 16 | 34 | 16 |  | 12 | 16 | 29 | 16 | 5 |  | 16 | 6 | 16 | 1 |
| 17 | 4 | 17 |  | 15 | 17 | 14 | 17 | 8 |  | 17 | 16 |  |  |
| 18 | 22 | 18 |  | 5 | 18 | 3 | 18 | 13 |  | 18 | 15 |  |  |
| 19 | 83 | 19 |  | 11 | 19 | 4 | 19 | 28 |  | 19 | 8 |  |  |
| 20 | 8 | 20 |  | 7 | 20 | 23 | 20 | 8 |  | 20 | 1 |  |  |
| 21 | 15 | 21 |  | 20 | 21 | 7 | 21 | 15 |  | 21 | 10 |  |  |
| 22 | 6 | 22 |  | 3 | 22 | 2 | 22 | 4 |  | 22 | 6 |  |  |
| 23 | 36 | 23 |  | 16 | 23 | 11 | 23 | 12 |  | 23 | 3 |  |  |
| 24 | 22 | 24 |  | 11 | 24 | 18 | 24 | 8 |  | 24 | 8 |  |  |
| 25 | 2 | 25 |  | 93 |  |  | 25 | 5 |  | 25 | 14 |  |  |
| 26 | 10 | 26 |  | 4 |  |  | 26 | 35 |  | 26 | 8 |  |  |
| 27 | 14 | 27 |  | 1 |  |  | 27 | 1 |  | 27 | 16 |  |  |
| 28 | 6 | 28 |  | 11 |  |  | 28 | 47 |  | 28 | 18 |  |  |
| 29 | 12 | 29 |  | 2 |  |  | 29 | 9 |  | 29 | 11 |  |  |
| 30 | 7 | 30 |  | 3 |  |  | 30 | 7 |  | 30 | 9 |  |  |
| 31 | 15 | 31 |  | 26 |  |  | 31 | 6 |  | 31 | 1 |  |  |
| 32 | 4 | 32 |  | 34 |  |  | 32 | 5 |  | 32 | 4 |  |  |
| 33 | 11 | 33 |  | 3 |  |  | 33 | 7 |  | 33 | 11 |  |  |
| 34 | 70 | 34 |  | 7 |  |  | 34 | 34 |  | 34 | 7 |  |  |
| 35 | 11 | 35 |  | 8 |  |  | 35 | 5 |  | 35 | 5 |  |  |
| 36 | 5 | 36 |  | 2 |  |  | 36 | 8 |  | 36 | 13 |  |  |
| 37 | 100 | 37 |  | 13 |  |  | 37 | 6 |  | 37 | 3 |  |  |
| 38 | 13 | 38 |  | 3 |  |  | 38 | 13 |  |  |  |  |  |
| 39 | 17 | 39 |  | 12 |  |  | 39 | 11 |  |  |  |  |  |
| 40 | 10 | 40 |  | 1 |  |  | 40 | 4 |  |  |  |  |  |
| 41 | 38 | 41 |  | 5 |  |  | 41 | 4 |  |  |  |  |  |
| 42 | 22 | 42 |  | 4 |  |  | 42 | 7 |  |  |  |  |  |
| 43 | 8 | 43 |  | 3 |  |  | 43 | 6 |  |  |  |  |  |
|  |  | 44 |  | 6 |  |  | 44 | 5 |  |  |  |  |  |
|  |  | 45 |  | 1 |  |  | 45 | 5 |  |  |  |  |  |
|  |  | 46 |  | 14 |  |  | 46 | 3 |  |  |  |  |  |
|  |  | 47 |  | 21 |  |  | 47 | 1 |  |  |  |  |  |
|  |  | 48 |  | 3 |  |  | 48 | 1 |  |  |  |  |  |
|  |  | 49 |  | 1 |  |  |  |  |  |  |  |  |  |
|  |  | 50 |  | 22 |  |  |  |  |  |  |  |  |  |
|  |  | 51 |  | 7 |  |  |  |  |  |  |  |  |  |
|  |  | 52 |  | 10 |  |  |  |  |  |  |  |  |  |
|  |  | 53 |  | 2 |  |  |  |  |  |  |  |  |  |
|  |  | 54 |  | 7 |  |  |  |  |  |  |  |  |  |
|  |  | 55 |  | 5 |  |  |  |  |  |  |  |  |  |
|  |  | 56 |  | 11 |  |  |  |  |  |  |  |  |  |
|  |  | 57 |  | 13 |  |  |  |  |  |  |  |  |  |
|  |  | 58 |  | 22 |  |  |  |  |  |  |  |  |  |
|  |  | 59 |  | 1 |  |  |  |  |  |  |  |  |  |
|  |  | 60 |  | 5 |  |  |  |  |  |  |  |  |  |
|  |  | 61 |  | 17 |  |  |  |  |  |  |  |  |  |
|  |  | 62 |  | 22 |  |  |  |  |  |  |  |  |  |
|  |  | 63 |  | 8 |  |  |  |  |  |  |  |  |  |
|  |  | 64 |  | 2 |  |  |  |  |  |  |  |  |  |
|  |  | 65 |  | 4 |  |  |  |  |  |  |  |  |  |
|  |  | 66 |  | 4 |  |  |  |  |  |  |  |  |  |
|  |  | 67 |  | 8 |  |  |  |  |  |  |  |  |  |
|  |  | 68 |  | 40 |  |  |  |  |  |  |  |  |  |
|  |  | 69 |  | 4 |  |  |  |  |  |  |  |  |  |
|  |  | 70 |  | 2 |  |  |  |  |  |  |  |  |  |
|  |  | 71 |  | 11 |  |  |  |  |  |  |  |  |  |

**Table S4 Raw data: Number of individuals in the groups entering and leaving the waterhole**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Waterhole 1** | | | |  | **Waterhole 2** | | | |
| **#** | **Entering** | **#** | **Leaving** |  | **#** | **Entering** | **#** | **Leaving** |
| 1 | 3 | 1 | 12 |  | 1 | 2 | 1 | 8 |
| 2 | 2 | 2 | 43 |  | 2 | 4 | 2 | 26 |
| 3 | 1 | 3 | 1200 |  | 3 | 1 | 3 | 2 |
| 4 | 118 | 4 | 56 |  | 4 | 12 | 4 | 14 |
| 5 | 76 | 5 | 82 |  | 5 | 2 | 5 | 2 |
| 6 | 36 | 6 | 43 |  | 6 | 2 | 6 | 7 |
| 7 | 41 | 7 | 210 |  | 7 | 8 | 7 | 1 |
| 8 | 7 | 8 | 13 |  | 8 | 11 | 8 | 34 |
| 9 | 16 | 9 | 180 |  | 9 | 6 | 9 | 16 |
| 10 | 1 | 10 | 44 |  | 10 | 30 | 10 | 4 |
| 11 | 120 | 11 | 47 |  | 11 | 12 | 11 | 8 |
| 12 | 60 | 12 | 900 |  | 12 | 6 | 12 | 36 |
| 13 | 1 | 13 | 7 |  | 13 | 2 | 13 | 12 |
| 14 | 430 | 14 | 16 |  | 14 | 1 | 14 | 4 |
| 15 | 70 | 15 | 1 |  | 15 | 1 | 15 | 6 |
| 16 | 5 | 16 | 140 |  | 16 | 4 | 16 | 33 |
| 17 | 90 | 17 | 60 |  | 17 | 2 | 17 | 9 |
| 18 | 4 | 18 | 1 |  | 18 | 9 | 18 | 14 |
| 19 | 2 | 19 | 51 |  | 19 | 16 | 19 | 33 |
| 20 | 2 | 20 | 70 |  | 20 | 12 | 20 | 4 |
| 21 | 250 | 21 | 23 |  | 21 | 2 | 21 | 1 |
| 22 | 22 | 22 | 90 |  | 22 | 4 | 22 | 5 |
| 23 | 180 | 23 | 57 |  | 23 | 3 | 23 | 4 |
| 24 | 80 | 24 | 87 |  | 24 | 15 | 24 | 12 |
| 25 | 50 | 25 | 83 |  | 25 | 3 | 25 | 6 |
| 26 | 1 | 26 | 208 |  | 26 | 2 | 26 | 5 |
| 27 | 34 | 27 | 22 |  | 27 | 1 | 27 | 76 |
| 28 | 7 | 28 | 180 |  | 28 | 32 | 28 | 1 |
| 29 | 130 | 29 | 114 |  | 29 | 14 | 29 | 29 |
| 30 | 110 | 30 | 73 |  | 30 | 3 | 30 | 13 |
| 31 | 750 | 31 | 18 |  | 31 | 13 | 31 | 4 |
| 32 | 9 | 32 | 111 |  | 32 | 6 | 32 | 8 |
| 33 | 240 | 33 | 7 |  | 33 | 34 | 33 | 1 |
| 34 | 662 | 34 | 118 |  | 34 | 8 |  |  |
| 35 | 14 | 35 | 36 |  | 35 | 22 |  |  |
| 36 | 33 | 36 | 59 |  | 36 | 14 |  |  |
| 37 | 312 | 37 | 9 |  | 37 | 1 |  |  |
| 38 | 3 | 38 | 240 |  | 38 | 14 |  |  |
| 39 | 86 | 39 | 115 |  | 39 | 2 |  |  |
| 40 | 147 | 40 | 14 |  | 40 | 4 |  |  |
| 41 | 4 | 41 | 82 |  | 41 | 7 |  |  |
| 42 | 4 | 42 | 312 |  | 42 | 2 |  |  |
| 43 | 18 | 43 | 92 |  | 43 | 39 |  |  |
| 44 | 91 | 44 | 86 |  | 44 | 2 |  |  |
| 45 | 86 | 45 | 4 |  | 45 | 1 |  |  |
| 46 | 46 | 46 | 151 |  | 46 | 3 |  |  |
| 47 | 806 | 47 | 47 |  | 47 | 1 |  |  |
| 48 | 2 | 48 | 18 |  | 48 | 4 |  |  |
| 49 | 5 | 49 | 77 |  | 49 | 1 |  |  |
| 50 | 1 | 50 | 36 |  | 50 | 1 |  |  |
| 51 | 590 | 51 | 4 |  | 51 | 1 |  |  |
| 52 | 64 | 52 | 160 |  | 52 | 4 |  |  |
| 53 | 323 | 53 | 1 |  | 53 | 3 |  |  |
| 54 | 37 | 54 | 191 |  |  |  |  |  |
| 55 | 56 | 55 | 90 |  |  |  |  |  |
| 56 | 165 | 56 | 85 |  |  |  |  |  |
| 57 | 1 | 57 | 64 |  |  |  |  |  |
| 58 | 49 | 58 | 323 |  |  |  |  |  |
| 59 | 41 | 59 | 129 |  |  |  |  |  |
| 60 | 77 | 60 | 56 |  |  |  |  |  |
| 61 | 4 | 61 | 8 |  |  |  |  |  |
| 62 | 80 | 62 | 1 |  |  |  |  |  |
| 63 | 41 | 63 | 49 |  |  |  |  |  |
| 64 | 29 | 64 | 78 |  |  |  |  |  |
| 65 | 7 | 65 | 121 |  |  |  |  |  |
| 66 | 2 | 66 | 4 |  |  |  |  |  |
| 67 | 4 | 67 | 105 |  |  |  |  |  |
| 68 | 30 | 68 | 87 |  |  |  |  |  |
| 69 | 1 | 69 | 150 |  |  |  |  |  |
| 70 | 38 | 70 | 45 |  |  |  |  |  |
| 71 | 13 | 71 | 7 |  |  |  |  |  |
| 72 | 19 | 72 | 1070 |  |  |  |  |  |
| 73 | 6 | 73 | 122 |  |  |  |  |  |
| 74 | 4 | 74 | 6 |  |  |  |  |  |
| 75 | 5 | 75 | 46 |  |  |  |  |  |
| 76 | 20 | 76 | 63 |  |  |  |  |  |
| 77 | 14 | 77 | 180 |  |  |  |  |  |
| 78 | 8 | 78 | 60 |  |  |  |  |  |
| 79 | 29 | 79 | 253 |  |  |  |  |  |
| 80 | 30 | 80 | 38 |  |  |  |  |  |
| 81 | 12 | 81 | 516 |  |  |  |  |  |
| 82 | 20 | 82 | 4 |  |  |  |  |  |
| 83 | 45 | 83 | 195 |  |  |  |  |  |
| 84 | 44 | 84 | 171 |  |  |  |  |  |
| 85 | 42 | 85 | 242 |  |  |  |  |  |
| 86 | 30 | 86 | 22 |  |  |  |  |  |
| 87 | 55 | 87 | 211 |  |  |  |  |  |
| 88 | 3 | 88 | 42 |  |  |  |  |  |
| 89 | 2 | 89 | 115 |  |  |  |  |  |
| 90 | 6 | 90 | 254 |  |  |  |  |  |
| 91 | 2 | 91 | 15 |  |  |  |  |  |
| 92 | 7 | 92 | 360 |  |  |  |  |  |
| 93 | 7 | 93 | 135 |  |  |  |  |  |
| 94 | 28 | 94 | 427 |  |  |  |  |  |
| 95 | 84 | 95 | 75 |  |  |  |  |  |
| 96 | 100 | 96 | 346 |  |  |  |  |  |
| 97 | 3 | 97 | 91 |  |  |  |  |  |
| 98 | 4 | 98 | 75 |  |  |  |  |  |
| 99 | 21 | 99 | 474 |  |  |  |  |  |
| 100 | 4 | 100 | 372 |  |  |  |  |  |
| 101 | 9 | 101 | 160 |  |  |  |  |  |
| 102 | 4 | 102 | 330 |  |  |  |  |  |
| 103 | 30 | 103 | 12 |  |  |  |  |  |
| 104 | 3 | 104 | 2 |  |  |  |  |  |
| 105 | 23 | 105 | 1 |  |  |  |  |  |
| 106 | 2 | 106 | 4 |  |  |  |  |  |
| 107 | 450 | 107 | 1 |  |  |  |  |  |
| 108 | 600 | 108 | 4 |  |  |  |  |  |
| 109 | 18 |  |  |  |  |  |  |  |
| 110 | 15 |  |  |  |  |  |  |  |
| 111 | 2 |  |  |  |  |  |  |  |
| 112 | 1 |  |  |  |  |  |  |  |
| 113 | 4 |  |  |  |  |  |  |  |
| 114 | 6 |  |  |  |  |  |  |  |
| 115 | 22 |  |  |  |  |  |  |  |
| 116 | 118 |  |  |  |  |  |  |  |
| 117 | 33 |  |  |  |  |  |  |  |
| 118 | 37 |  |  |  |  |  |  |  |
| 119 | 45 |  |  |  |  |  |  |  |
| 120 | 160 |  |  |  |  |  |  |  |
| 121 | 4 |  |  |  |  |  |  |  |
| 122 | 32 |  |  |  |  |  |  |  |
| 123 | 2 |  |  |  |  |  |  |  |
| 124 | 1 |  |  |  |  |  |  |  |
| 125 | 6 |  |  |  |  |  |  |  |
| 126 | 5 |  |  |  |  |  |  |  |
| 127 | 4 |  |  |  |  |  |  |  |
| 128 | 49 |  |  |  |  |  |  |  |
| 129 | 8 |  |  |  |  |  |  |  |
| 130 | 23 |  |  |  |  |  |  |  |
| 131 | 14 |  |  |  |  |  |  |  |
| 132 | 7 |  |  |  |  |  |  |  |
| 133 | 16 |  |  |  |  |  |  |  |
| 134 | 14 |  |  |  |  |  |  |  |
| 135 | 48 |  |  |  |  |  |  |  |
| 136 | 33 |  |  |  |  |  |  |  |
| 137 | 63 |  |  |  |  |  |  |  |
| 138 | 42 |  |  |  |  |  |  |  |
| 139 | 130 |  |  |  |  |  |  |  |
| 140 | 74 |  |  |  |  |  |  |  |
| 141 | 60 |  |  |  |  |  |  |  |
| 142 | 20 |  |  |  |  |  |  |  |
| 143 | 2 |  |  |  |  |  |  |  |
| 144 | 30 |  |  |  |  |  |  |  |
| 145 | 44 |  |  |  |  |  |  |  |
| 146 | 30 |  |  |  |  |  |  |  |
| 147 | 77 |  |  |  |  |  |  |  |
| 148 | 36 |  |  |  |  |  |  |  |
| 149 | 92 |  |  |  |  |  |  |  |
| 150 | 55 |  |  |  |  |  |  |  |
| 151 | 61 |  |  |  |  |  |  |  |
| 152 | 29 |  |  |  |  |  |  |  |
| 153 | 90 |  |  |  |  |  |  |  |
| 154 | 40 |  |  |  |  |  |  |  |
| 155 | 40 |  |  |  |  |  |  |  |
| 156 | 78 |  |  |  |  |  |  |  |
| 157 | 146 |  |  |  |  |  |  |  |
| 158 | 1 |  |  |  |  |  |  |  |
| 159 | 1 |  |  |  |  |  |  |  |
| 160 | 49 |  |  |  |  |  |  |  |
| 161 | 8 |  |  |  |  |  |  |  |