| Model | K | Δ AICc | Weight |
| --- | --- | --- | --- |
| Disease Status + PreP Temperature + PreP Precipitation + PreP Precipitation 2 | 6 | 0.000 | 0.269 |
| Disease Status + PreP Precipitation + PreP Precipitation 2 | 5 | 1.411 | 0.133 |
| Disease Status + PreP Temperature | 4 | 1.983 | 0.100 |
| Disease Status + Lion\_REM + PreP Temperature + PreP Precipitation + PreP Precipitation 2 | 7 | 2.191 | 0.090 |
| Disease Status \* Abundance + PreP Temperature + PreP Precipitation + PreP Precipitation 2 | 8 | 3.344 | 0.051 |
| Disease Status + Lion\_REM + PreP Precipitation + PreP Precipitation 2 | 6 | 3.553 | 0.046 |
| Disease Status + Abundance + PreP Temperature | 5 | 3.571 | 0.045 |
| Disease Status + Abundance + PreP Precipitation + PreP Precipitation 2 | 6 | 3.615 | 0.044 |
| Disease Status + Lion\_REM + PreP Temperature | 5 | 3.681 | 0.043 |
| Disease Status + Abundance + Lion\_REM + PreP Temperature + PreP Precipitation + PreP Precipitation 2 | 8 | 4.098 | 0.035 |
| Disease Status | 3 | 4.125 | 0.034 |
| Disease Status \* Abundance + PreP Precipitation + PreP Precipitation 2 | 7 | 5.093 | 0.021 |
| Disease Status + Abundance + Lion\_REM + PreP Temperature | 6 | 5.104 | 0.021 |
| Disease Status \* Abundance + PreP Temperature | 6 | 5.408 | 0.018 |
| Disease Status \* Abundance + Lion\_REM + PreP Temperature + PreP Precipitation + PreP Precipitation 2 | 9 | 5.604 | 0.016 |
| Disease Status + Abundance + Lion\_REM + PreP Precipitation + PreP Precipitation 2 | 7 | 5.799 | 0.015 |
| Disease Status \* Abundance + Lion\_REM + PreP Temperature | 7 | 7.035 | 0.008 |
| Disease Status \* Abundance + Lion\_REM + PreP Precipitation + PreP Precipitation 2 | 8 | 7.347 | 0.007 |
| Disease Status \* Abundance | 5 | 8.047 | 0.005 |
| Lion\_REM + PreP Temperature + PreP Precipitation + PreP Precipitation 2 | 6 | 15.025 | 0.000 |
| Lion\_REM + PreP Precipitation + PreP Precipitation 2 | 5 | 16.082 | 0.000 |
| PreP Temperature + PreP Precipitation + PreP Precipitation 2 | 5 | 16.406 | 0.000 |
| Abundance + PreP Precipitation + PreP Precipitation 2 | 5 | 16.460 | 0.000 |
| Abundance + Lion\_REM + PreP Precipitation + PreP Precipitation 2 | 6 | 16.619 | 0.000 |
| Abundance + Lion\_REM + PreP Temperature + PreP Precipitation + PreP Precipitation 2 | 7 | 16.646 | 0.000 |
| Abundance + PreP Temperature + PreP Precipitation + PreP Precipitation 2 | 6 | 16.883 | 0.000 |
| Lion\_REM + PreP Temperature | 4 | 16.905 | 0.000 |
| PreP Precipitation + PreP Precipitation 2 | 4 | 17.368 | 0.000 |
| Lion\_REM | 3 | 18.155 | 0.000 |
| Abundance + Lion\_REM + PreP Temperature | 5 | 18.804 | 0.000 |
| PreP Temperature | 3 | 20.898 | 0.000 |
| Abundance | 3 | 21.097 | 0.000 |
| Abundance + PreP Temperature | 4 | 21.465 | 0.000 |
| 1 | 2 | 21.865 | 0.000 |