| Model | K | Δ AICc | Weight |
| --- | --- | --- | --- |
| Disease Status + PreP Temperature + PreP Precipitation + PreP Precipitation 2 | 6 | 0.000 | 0.203 |
| Disease Status + PreP Temperature | 4 | 0.554 | 0.154 |
| Disease Status + PreP Precipitation + PreP Precipitation 2 | 5 | 1.102 | 0.117 |
| Disease Status + Lion\_REM + PreP Temperature + PreP Precipitation + PreP Precipitation 2 | 7 | 2.024 | 0.074 |
| Disease Status + Lion\_REM + PreP Temperature | 5 | 2.157 | 0.069 |
| Disease Status + Abundance + PreP Temperature | 5 | 2.312 | 0.064 |
| Disease Status + Lion\_REM + PreP Precipitation + PreP Precipitation 2 | 6 | 3.060 | 0.044 |
| Disease Status | 3 | 3.283 | 0.039 |
| Disease Status + Abundance + PreP Precipitation + PreP Precipitation 2 | 6 | 3.313 | 0.039 |
| Disease Status \* Abundance + PreP Temperature + PreP Precipitation + PreP Precipitation 2 | 8 | 3.555 | 0.034 |
| Disease Status + Abundance + Lion\_REM + PreP Temperature + PreP Precipitation + PreP Precipitation 2 | 8 | 3.627 | 0.033 |
| Disease Status + Abundance + Lion\_REM + PreP Temperature | 6 | 3.651 | 0.033 |
| Disease Status \* Abundance + PreP Temperature | 6 | 3.885 | 0.029 |
| Disease Status \* Abundance + PreP Precipitation + PreP Precipitation 2 | 7 | 5.086 | 0.016 |
| Disease Status + Abundance + Lion\_REM + PreP Precipitation + PreP Precipitation 2 | 7 | 5.281 | 0.014 |
| Disease Status \* Abundance + Lion\_REM + PreP Temperature | 7 | 5.567 | 0.013 |
| Disease Status \* Abundance + Lion\_REM + PreP Temperature + PreP Precipitation + PreP Precipitation 2 | 9 | 5.653 | 0.012 |
| Disease Status \* Abundance | 5 | 7.009 | 0.006 |
| Disease Status \* Abundance + Lion\_REM + PreP Precipitation + PreP Precipitation 2 | 8 | 7.238 | 0.005 |
| Lion\_REM + PreP Temperature | 4 | 14.443 | 0.000 |
| Lion\_REM + PreP Temperature + PreP Precipitation + PreP Precipitation 2 | 6 | 14.710 | 0.000 |
| Abundance + Lion\_REM + PreP Temperature | 5 | 15.966 | 0.000 |
| Abundance + PreP Precipitation + PreP Precipitation 2 | 5 | 15.979 | 0.000 |
| Lion\_REM + PreP Precipitation + PreP Precipitation 2 | 5 | 16.009 | 0.000 |
| PreP Temperature + PreP Precipitation + PreP Precipitation 2 | 5 | 16.162 | 0.000 |
| Abundance + Lion\_REM + PreP Temperature + PreP Precipitation + PreP Precipitation 2 | 7 | 16.218 | 0.000 |
| Abundance + Lion\_REM + PreP Precipitation + PreP Precipitation 2 | 6 | 16.278 | 0.000 |
| Abundance + PreP Temperature + PreP Precipitation + PreP Precipitation 2 | 6 | 16.286 | 0.000 |
| Lion\_REM | 3 | 16.990 | 0.000 |
| Abundance + PreP Temperature | 4 | 17.131 | 0.000 |
| PreP Temperature | 3 | 17.416 | 0.000 |
| PreP Precipitation + PreP Precipitation 2 | 4 | 17.505 | 0.000 |
| Abundance | 3 | 17.714 | 0.000 |
| 1 | 2 | 19.910 | 0.000 |