| disturbance | outcome | model\_type | term | type | estimate | std.error | statistic | p.value | k | qe | qe\_p | I2 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Precipitation reduction | Abundance | Null model | overall | summary | -0.437 | 0.137 | -3.196 | 0.001 | 187 | 2767.478 | 0.000 | 98 |
| Precipitation reduction | Abundance | Failed Geary test | overall | summary | -0.383 | 0.141 | -2.718 | 0.007 | 163 | 2735.791 | 0.000 | 98 |
| Precipitation reduction | Abundance | Low validity removed | overall | summary | -0.563 | 0.198 | -2.839 | 0.005 | 67 | 2391.005 | 0.000 | 99 |
| Precipitation increase | Abundance | Null model | overall | summary | 0.327 | 0.136 | 2.401 | 0.016 | 141 | 1636.793 | 0.000 | 78 |
| Precipitation increase | Abundance | Failed Geary test | overall | summary | 0.322 | 0.136 | 2.373 | 0.018 | 114 | 1605.231 | 0.000 | 81 |
| Precipitation increase | Abundance | Low validity removed | overall | summary | 0.298 | 0.181 | 1.649 | 0.099 | 119 | 1502.321 | 0.000 | 79 |
| Precipitation reduction | Taxonomic richness | Null model | overall | summary | -0.033 | 0.035 | -0.944 | 0.345 | 38 | 96.205 | 0.000 | 41 |
| Precipitation reduction | Taxonomic richness | Failed Geary test | overall | summary | -0.033 | 0.035 | -0.944 | 0.345 | 38 | 96.205 | 0.000 | 41 |
| Precipitation reduction | Taxonomic richness | Low validity removed | overall | summary | -0.126 | 0.022 | -5.625 | 0.000 | 24 | 59.146 | 0.000 | 5 |
| Precipitation increase | Taxonomic richness | Null model | overall | summary | -0.015 | 0.092 | -0.165 | 0.869 | 15 | 16.585 | 0.279 | 58 |
| Precipitation increase | Taxonomic richness | Failed Geary test | overall | summary | -0.015 | 0.092 | -0.165 | 0.869 | 15 | 16.585 | 0.279 | 58 |
| Precipitation increase | Taxonomic richness | Low validity removed | overall | summary | -0.075 | 0.041 | -1.837 | 0.066 | 11 | 8.458 | 0.584 | 12 |
| Precipitation reduction | Shannon-Wiener index | Null model | overall | summary | -0.074 | 0.035 | -2.092 | 0.036 | 35 | 200.514 | 0.000 | 68 |
| Precipitation reduction | Shannon-Wiener index | Failed Geary test | overall | summary | -0.074 | 0.035 | -2.092 | 0.036 | 35 | 200.514 | 0.000 | 68 |
| Precipitation reduction | Shannon-Wiener index | Low validity removed | overall | summary | -0.137 | 0.031 | -4.358 | 0.000 | 25 | 72.330 | 0.000 | 26 |
| Precipitation increase | Shannon-Wiener index | Null model | overall | summary | -0.080 | 0.029 | -2.789 | 0.005 | 13 | 3.782 | 0.987 | 0 |
| Precipitation increase | Shannon-Wiener index | Failed Geary test | overall | summary | -0.080 | 0.029 | -2.789 | 0.005 | 13 | 3.782 | 0.987 | 0 |
| Precipitation increase | Shannon-Wiener index | Low validity removed | overall | summary | -0.074 | 0.029 | -2.524 | 0.012 | 12 | 3.289 | 0.986 | 0 |