

Table S1: Modified Preferred Reporting Items for Systematic Reviews and Meta-Analysis (PRISMA) indicating the number of studies considered at each step of the literature search.

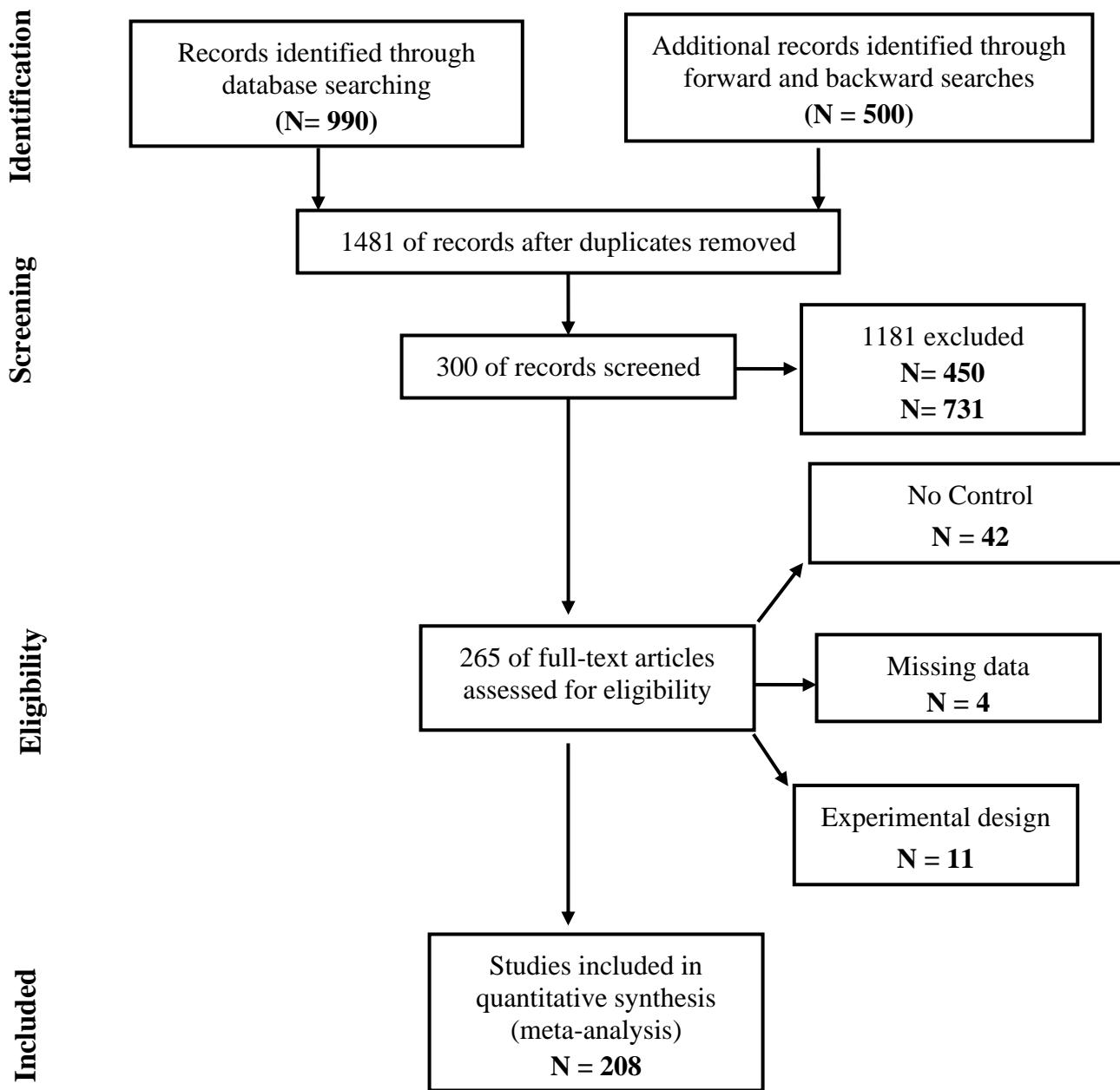


Table S2: Overall effect of fire on abundance, biomass, diversity, evenness and richness of all faunal groups and aboveground animals. Analyses were conducted using a mixed-effects model. Hedges'g values of less than 0.2 represent small effects, values between 0.2 and 0.5 represent moderate effects, with values greater than 0.5 suggesting large effects.

| Response | estimate | se | p | ci.lb | ci.ub |
|-----------------------------------|----------|--------|--------|---------|---------|
| Overall Community Response | | | | | |
| Abundance | -0.3175 | 0.0122 | <.0001 | -0.3415 | -0.2936 |
| Biomass | -0.3839 | 0.0266 | <.0001 | -0.4361 | -0.3317 |
| Diversity | -0.4228 | 0.0319 | <.0001 | -0.4853 | -0.3604 |
| Evenness | -0.2469 | 0.0356 | <.0001 | -0.3167 | -0.1771 |
| Richness | -0.2125 | 0.0248 | <.0001 | -0.2611 | -0.1639 |
| Amphibian | | | | | |
| Abundance | 0.83 | 0.25 | 0.00 | 0.35 | 1.32 |
| Richness | 1.29 | 0.49 | 0.01 | 0.33 | 2.25 |
| Small mammals | | | | | |
| Abundance | 0.0323 | 0.0559 | 0.5637 | -0.0773 | 0.1419 |
| Richness | -0.5342 | 0.2988 | 0.0738 | -1.1197 | 0.0514 |
| Birds | | | | | |
| Abundance | 0.38 | 0.12 | 0 | 0.15 | 0.62 |
| Biomass | -0.7 | 0.45 | 0.12 | -1.58 | 0.19 |
| Diversity | 0.16 | 0.34 | 0.64 | -0.5 | 0.82 |
| Richness | 0.86 | 0.36 | 0.02 | 0.16 | 1.57 |
| Arthropods - Aboveground | | | | | |
| Abundance | -0.12 | 0.02 | <.0001 | -0.16 | -0.08 |
| Biomass | 0.03 | 0.13 | 0.7966 | -0.22 | 0.29 |
| Diversity | -0.08 | 0.06 | 0.1613 | -0.2 | 0.03 |
| Evenness | 0.34 | 0.09 | 0.0002 | 0.16 | 0.51 |
| Richness | 0.17 | 0.04 | <.0001 | 0.1 | 0.24 |
| Reptiles | | | | | |
| Abundance | 0.04 | 0.09 | 0.62 | -0.13 | 0.22 |
| Diversity | -0.43 | 0.52 | 0.41 | -1.45 | 0.59 |
| Richness | 0.36 | 0.15 | 0.02 | 0.07 | 0.65 |
| Molluscs | | | | | |
| Abundance | -0.68 | 0.1887 | 0.0003 | -1.0498 | -0.3102 |
| Richness | -0.8763 | 0.2158 | <.0001 | -1.2993 | -0.4533 |

Table S3: Overall effect of fire on abundance, biomass, diversity, evenness and richness of all faunal groups and belowground animals. Analyses were conducted using a mixed-effects model. Hedges'g values of less than 0.2 represent small effects, values between 0.2 and 0.5 represent moderate effects, with values greater than 0.5 suggesting large effects.

| Response | estimate | se | p | ci.lb | ci.ub |
|-------------------|----------|--------|--------|---------|---------|
| Annelids | | | | | |
| Abundance | -0.92 | 0.24 | 0 | -1.4 | -0.44 |
| Richness | -0.62 | 0.26 | 0.02 | -1.13 | -0.11 |
| Fungi | | | | | |
| Abundance | -0.2897 | 0.0294 | <.0001 | -0.3472 | -0.2321 |
| Biomass | -0.3447 | 0.0591 | <.0001 | -0.4605 | -0.2289 |
| Diversity | -0.5796 | 0.0422 | <.0001 | -0.6623 | -0.4969 |
| Evenness | -0.2708 | 0.0423 | <.0001 | -0.3536 | -0.1879 |
| Richness | -0.5823 | 0.0429 | <.0001 | -0.6664 | -0.4982 |
| Arthropods | | | | | |
| Abundance | -0.54 | 0.02 | <.0001 | -0.58 | -0.49 |
| Diversity | -0.69 | 0.12 | <.0001 | -0.92 | -0.45 |
| Evenness | -1.01 | 0.12 | <.0001 | -1.25 | -0.78 |
| Richness | -0.85 | 0.08 | <.0001 | -1 | -0.7 |
| Microbes | | | | | |
| Abundance | 0.1587 | 0.1245 | 0.2023 | -0.0853 | 0.4027 |
| Biomass | -0.4311 | 0.0327 | <.0001 | -0.4952 | -0.3671 |
| Diversity | 0.1535 | 0.24 | 0.5225 | -0.3169 | 0.6238 |
| Evenness | -0.7925 | 0.6273 | 0.2065 | -2.022 | 0.437 |
| Richness | 1.6378 | 0.3671 | <.0001 | 0.9183 | 2.3573 |
| Bacteria | | | | | |
| Abundance | -0.96 | 0.05 | <0001 | -1.06 | -0.86 |
| Biomass | -0.34 | 0.09 | 0 | -0.52 | -0.16 |
| Diversity | -0.44 | 0.19 | 0.02 | -0.81 | -0.07 |
| Evenness | -0.45 | 0.18 | 0.01 | -0.79 | -0.1 |
| Richness | -0.18 | 0.13 | 0.18 | -0.44 | 0.08 |
| Nematodes | | | | | |
| Abundance | -0.6995 | 0.05 | <.0001 | -0.7975 | -0.6016 |
| Biomass | 0.6628 | 0.4608 | 0.1503 | -0.2403 | 1.5659 |
| Diversity | -1.2991 | 0.3689 | 0.0004 | -2.0222 | -0.576 |
| Richness | -1.4303 | 0.4876 | 0.0034 | -2.386 | -0.4746 |

Table S4: Overall effect of fire by intensity and habitat on fauna. Analyses were conducted using a mixed-effects model. Hedges'g values of less than 0.2 represent small effects, values between 0.2 and 0.5 represent moderate effects, with values greater than 0.5 suggesting large effects.

| Response | estimate | se | pval | ci.lb | ci.ub | |
|-----------------------|----------|--------|--------|---------|---------|------------|
| Microhabitat | | | | | | |
| Aboveground | -0.0267 | 0.0151 | 0.0779 | -0.0563 | 0.003 | |
| Belowground | -0.4908 | 0.0118 | <.0001 | -0.514 | -0.4676 | |
| Fire intensity | | | | | | |
| Light | -0.1207 | 0.0306 | <.0001 | -0.1806 | -0.0608 | |
| Moderate | -0.0143 | 0.042 | 0.7341 | -0.0965 | 0.068 | |
| Severe | -0.2731 | 0.0308 | <.0001 | -0.3335 | -0.2127 | |
| Fire types | | | | | | |
| Prescribed | -0.3392 | 0.0147 | <.0001 | -0.3681 | -0.3104 | |
| Wildfire | -0.2988 | 0.012 | <.0001 | -0.3224 | -0.2752 | |
| Biomes | | | | | | |
| Agriculture | -0.7569 | 0.1335 | <.0001 | -1.0187 | -0.4952 | Prescribed |
| Desert | -4.0618 | 0.4657 | <.0001 | -4.9746 | -3.149 | Prescribed |
| Forest | -0.4183 | 0.0206 | <.0001 | -0.4587 | -0.3779 | Prescribed |
| Grassland | -0.1605 | 0.0304 | <.0001 | -0.2202 | -0.1009 | Prescribed |
| Plantation | -0.4867 | 0.2733 | 0.0749 | -1.0223 | 0.0489 | Prescribed |
| Savannah | -0.5053 | 0.043 | <.0001 | -0.5897 | -0.421 | Prescribed |
| Shrubland | -0.1253 | 0.042 | 0.0028 | -0.2076 | -0.043 | Prescribed |
| Tundra | 0.4889 | 0.4539 | 0.2814 | -0.4006 | 1.3784 | Prescribed |
| Desert | -0.0777 | 0.1455 | 0.5931 | -0.3629 | 0.2074 | Wildfire |
| Forest | -0.4935 | 0.015 | <.0001 | -0.523 | -0.4641 | Wildfire |
| Grassland | 0.0805 | 0.0289 | 0.0053 | 0.0239 | 0.1371 | Wildfire |
| Savannah | -0.2177 | 0.0874 | 0.0128 | -0.3891 | -0.0463 | Wildfire |
| Shrubland | 0.0146 | 0.0366 | 0.6902 | -0.0571 | 0.0863 | Wildfire |
| Tundra | 0.1184 | 0.0525 | 0.024 | 0.0156 | 0.2213 | Wildfire |
| Continent | | | | | | |
| Africa | -0.0281 | 0.0631 | 0.6565 | -0.1517 | 0.0956 | Prescribed |
| Asia | -0.6069 | 0.061 | <.0001 | -0.7264 | -0.4873 | Prescribed |
| Australia | -0.2771 | 0.0547 | <.0001 | -0.3844 | -0.1698 | Prescribed |
| Europe | -0.5372 | 0.0277 | <.0001 | -0.5914 | -0.4829 | Prescribed |
| North America | -0.240 | 0.0203 | <.0001 | -0.2799 | -0.2003 | Prescribed |
| South America | -0.66 | 0.1907 | 0.0005 | -1.0337 | -0.2863 | Prescribed |
| Africa | 0.0832 | 0.1189 | 0.4842 | -0.1499 | 0.3163 | Wildfire |
| Asia | -0.9748 | 0.0316 | <.0001 | -1.0367 | -0.913 | Wildfire |
| Australia | -0.0542 | 0.0941 | 0.5646 | -0.2387 | 0.1303 | Wildfire |
| Europe | -0.1428 | 0.0231 | <.0001 | -0.188 | -0.0976 | Wildfire |
| North America | -0.0597 | 0.0248 | 0.0159 | -0.1082 | -0.0111 | Wildfire |

| | | | | | | |
|---------------|---------|--------|--------|---------|--------|----------|
| South America | -0.3257 | 0.0213 | <.0001 | -0.3674 | -0.284 | Wildfire |
|---------------|---------|--------|--------|---------|--------|----------|

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