**S1 Table. Distribution of number of response variables (i.e. data points) and studies in each category.**

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| --- | --- | --- |
|   |   | Number |
|   | Category | Variables | Studies |
| *Metric type* | Abundance | 679 | 93 |
| Diversity | 405 | 82 |
| Functions | 720 | 91 |
| *Life form (abundance)* | Invertebrates | 180 | 28 |
| Vegetation | 423 | 58 |
| Vertebrates | 76 | 14 |
| *Life form (diversity)* | Invertebrates | 159 | 32 |
| Vegetation | 185 | 41 |
| Vertebrates | 61 | 18 |
| *Ecosystem function* | Aboveground carbon | 218 | 45 |
| Belowground carbon | 275 | 59 |
| Nitrogen | 161 | 38 |
| Phosphorus | 66 | 27 |
| *Forest region* | Temperate | 770 | 73 |
| Tropical | 1034 | 95 |
| *Precipitation* | Wet | 1055 | 92 |
| Dry | 749 | 76 |
| *Land-use type* | Agriculture | 822 | 74 |
| Logging | 551 | 57 |
| Mining | 431 | 37 |
| *Restoration approach* | Passive | 1106 | 112 |
| Active | 698 | 66 |