**S4 Table. Additionality assessment summary.**

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| Level of precision | Number of cases | Type of evidence used |
| Weak  | 10 | Qualitative descriptions of PES environmental outcomes with suggestive evidence. |
| Fragile | 11 | Specific qualitative study or section of a study where consistent qualitative evidence on environmental additionality is presented |
| Medium | 5 | (i) Qualitative evidence crosschecked by different studies;Or(ii) Suggestive quantitative evidence based on trends with no inference or causality assessments. |
| Strong | 19 | Quantitative causal assessment based on modelling and representative statistical sampling. |
| Rigorous | 6 | Impact evaluation based on before-after-control-intervention techniques or matching control vs. treatment units. |