

Supplementary material of Bueno et al. - Could cattle ranching and soybean cultivation be sustainable? A systematic review and a meta-analysis for the Amazon.

Table S1. References used in the meta-analysis, average annual precipitation and temperatures of the study sites and references that compared the results also against native forest.

| Reference                | avg. annual precipitation | avg. annual temperature | Comparison against native forest |
|--------------------------|---------------------------|-------------------------|----------------------------------|
| Barros et al., 2003      | 2000                      | 25                      |                                  |
| Cruz et al., 2019.       | 3250                      | 24.1                    | x                                |
| Cubillos et al., 2016    | 750                       | 24                      | x                                |
| de Carvalho et al., 2019 | 2130                      | 25                      |                                  |
| Domiciano et al., 2020.  | 1820                      | 25                      |                                  |
| Gomes et al., 2020.      | 1820                      | 25.5                    |                                  |
| Hohnwald et al., 2006    | 2469                      | 26.7                    | x                                |
| Hohnwald et al., 2015    | 2469                      | 26.7                    | x                                |
| Magalhães et al., 2019   | 1974                      | 25.5                    |                                  |
| Mosquera et al. 2012     | 3750                      | 24                      | x                                |
| Petter et al., 2017      | 1950                      | 29                      | x                                |
| Silva and Schwartz, 2019 | 1743                      | 26.7                    |                                  |
| Silva et al., 2018       | 1743                      | 26.3                    | x                                |

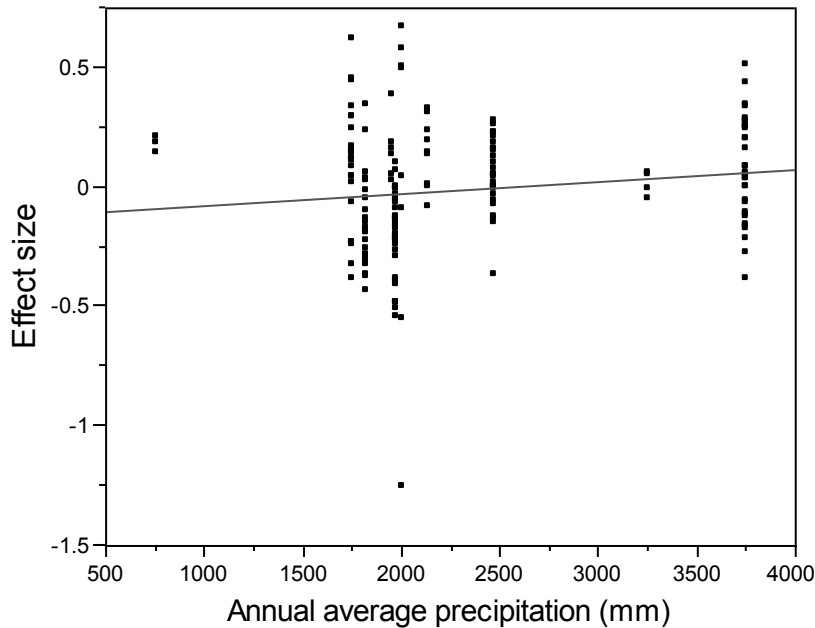


Figure S1. Linear relationship between the effect sizes and annual average precipitation found in the 13 studies used in the meta-analysis.

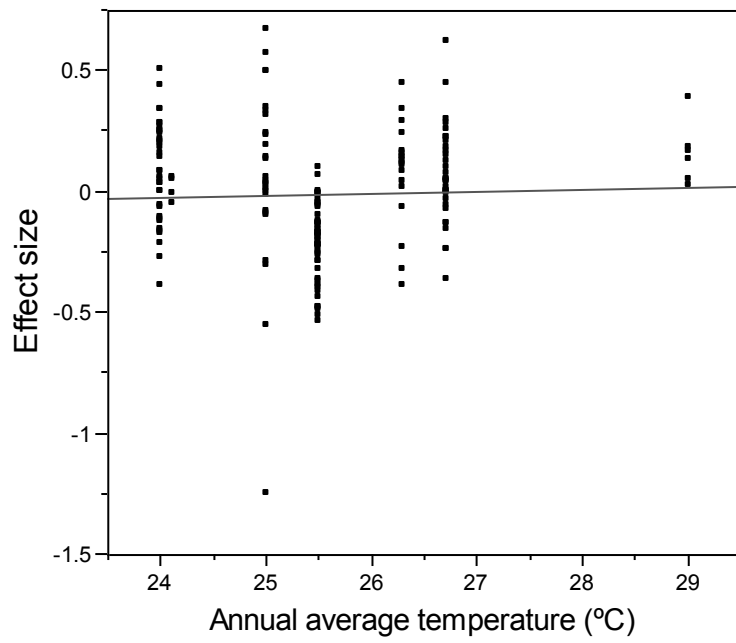


Figure S2. Linear relationship between the effect sizes and annual average temperature found in the 13 studies used in the meta-analysis.