**SUPPLEMENTARY FILE**

**Forest landscape restoration of a critical endangered ecosystem: An overview of worldwide efforts in tropical dry forest**

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**Figure S1.** PRISMA diagram of the steps followed during the systematic review.



**Table S1.** Description of the categories of the previous land use, restoration strategies and response variables reported by the studies reviewed. The elements (sub-category) that were included in each category and the number of studies in which they were included are specified.

|  |  |  |
| --- | --- | --- |
| **Category** | **Sub-category** | **Number of studies** |
| ***Previous land use*** | | |
| Cattle |  | 93 |
| Crops |  | 49 |
| Not applied |  | 41 |
| Mining |  | 18 |
| Not specified |  | 14 |
| Timber extraction |  | 14 |
| Fire |  | 8 |
| Intensive agro-forestry |  | 3 |
| Other | Non-timber products extraction | 3 |
| Dam construction | 1 |
| Lava flow | 1 |
| Sand extraction | 1 |
| Thirteenth-century stone city | 1 |
| Wasteland | 1 |
| War | 1 |
| ***Restoration strategy*** | | |
| Planting |  | 136 |
| Plating complementation | Fertilizer | 23 |
| Watering | 12 |
| Nurse tree | 7 |
| Mulch | 4 |
| Hydrogel | 2 |
| Shade | 2 |
| Thinning | 1 |
| Fire | 1 |
| Plant removal | Weed control | 18 |
| Grass removal | 12 |
| Plant removal | 5 |
| Herbicide | 4 |
| Fire | 1 |
| AMF Inoculation |  | 7 |
| Seed related | Seeding | 33 |
| Seed pellets | 2 |
| Topsoil |  | 9 |
| Soil plowing |  | 4 |
| Assisted Natural Regeneration |  | 9 |
| Enclosure |  | 15 |
| Other | Fire control | 1 |
| Orange waste | 1 |
| ***Response variables*** | | |
| Vegetation structure | Survival | 90 |
| Height | 49 |
| Germination | 39 |
| Growth | 35 |
| Diameter | 26 |
| Biomass | 31 |
| Root attributes | 23 |
| Density | 20 |
| Vegetation cover | 19 |
| Diameter increment | 18 |
| Height growth | 9 |
| Canopy cover | 8 |
| Recruitment | 8 |
| Leaf area | 4 |
| Crown attritutes | 3 |
| Seed banks attributes | 2 |
| Belowground biomass | 2 |
| Branches | 2 |
| Leaf production | 2 |
| Seedling establishment | 2 |
| Survival of germinated seeds | 2 |
| Fruit size | 1 |
| Resprouts | 1 |
| Seed size | 1 |
| Life/Growth forms | 1 |
| Functional attributes of the vegetation | Foliar N and P concentrations | 6 |
| Net photosynthesis | 3 |
| Regeneration | 2 |
| Resources allocation | 2 |
| Seed viability | 2 |
| Stomata openess | 2 |
| Changes in thermostable protein, amino acid and lipid concentration | 1 |
| Phenology | 1 |
| Stomatal conductance | 1 |
| Ecosystem functions | Aboveground carbon | 7 |
| Biomass (Besides plants) | 6 |
| Abundance (Besides plants) | 4 |
| Microclimate | 3 |
| Belowground carbon | 2 |
| Body condition | 1 |
| Dry weight (Besides plants) | 1 |
| Ecosystem C pools | 1 |
| Fire modeling | 1 |
| Mean Weight (Besides plants) | 1 |
| Spore density | 1 |
| Soil attributes | Soil nutrients (total N, available P) | 23 |
| pH | 17 |
| Soil moisture | 12 |
| Litter attributes | 11 |
| Soil organic C (SOC) | 8 |
| Bulk density | 6 |
| N-mineralization | 6 |
| Cation exchange capacity | 5 |
| C:N Ratio | 3 |
| Soil fertility | 3 |
| Soil CO2 flux | 2 |
| Use of mulch | 1 |
| Soil texture | 1 |
| Soil respiration | 1 |
| Soil coarse fraction | 1 |
| Soil salinity | 1 |
| Water holding capacity | 1 |
| Biotic interactions | Herbivory | 9 |
| Arbuscular mycorrhizal fungi (AMF) colonization | 5 |
| Seed removal | 4 |
| Species performance | 3 |
| Number of spores | 2 |
| Microbial activity | 2 |
| Net productivity | 2 |
| Breeding system | 1 |
| Organic matter decomposition | 1 |
| Pollination | 1 |
| Species requirements | 1 |
| Parrot recruitment | 1 |
| Biotic composition and diversity | Plant richness | 14 |
| Diversity | 11 |
| Richness (Besides plants) | 6 |
| Plant composition | 5 |
| Composition (Besides plants) | 4 |
| AMF Composition | 1 |
| AMF Richness | 1 |
| Arthropod communities | 1 |
| Services and social outcomes | Species values | 11 |
| Determinants of restoration program adoption | 9 |
| Economic Benefits | 5 |
| Restoration cost | 4 |
| Social benefits | 4 |
| Social perception of environmental changes | 4 |
| Capacity Development of GGW Communities | 2 |
| Local knowledge | 2 |
| Trees Protected on Land | 2 |
| Illegal harvesting of trees | 1 |
| Knowledge gaps | 1 |
| Fuel wood consumption | 2 |
| Seed Collection and Seedling Production | 1 |
| Sustainable Forest Management | 1 |
| Comunity monitoring | 1 |

**Table S2.** List of the 187 studies that were reviewed in this study by ecozone.

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| --- | --- | --- | --- |
| **Ecorregion** | **Year** | **Author(s)** | **Title** |
| **Afrotropic** | 2003 | Asefa, D.T.; Oba, G.; Weladji, R.B. & Colman, J.E. | Asefa, D. T., Oba, G., Weladji, R. B., & Colman, J. E. (2003). An assessment of restoration of biodiversity in degraded high mountain grazing lands in northern Ethiopia. *Land degradation & development*, 14(1), 25-38. |
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| 2012 | Appiah, M. | Changes in plant species composition within a planted forest in a deciduous agroecosystem in Ghana. *Agroforestry systems*, 85, 57-74. |
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**Table S3.** Summary of the total area cover by tropical dry forest (TDF) in each biogeographic regions where field studies were established (De la Peña Domene et al. 2022a), the restored area reported in the studies reviewed, the percentage it represented, the mean area restored and the range (max and min values) of the restored plots area. All values are shown in hectares.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Biogeographic regions** | **Total area TDF** | **Restored** | **Percentage** | **Mean** | **Range** |
| Afrotropic | 108,190 | 10,253 | 9 | 513 | 0.0016 - 2300 |
| Indomalayan | 13,103 | 984 | 8 | 49 | 0.0243 - 550 |
| Neotropic | 39,371 | 4,404 | 11 | 64 | 0.0012 - 2231 |
| Oceania | 68 | 31 | 46 | 2 | 0.0064 - 12 |
| Total | 160,732 | 15,672 | 10\* |  |  |

*Note\** Percentage restored of the total area