



SDI Review Form 1.6

Journal Name:	Asian Journal of Environment & Ecology
Manuscript Number:	Ms_AJEE_41207
Title of the Manuscript:	Botanical composition of Fabaceae family in the Brazilian Northeast, Maranhão, Brazil
Type of the Article	Original Research Article

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



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PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Compulsory REVISION comments		
Minor REVISION comments	Authors use of the comma showed be revisited, it was not needed in many places Some sentences are too long and confusing. I encourage authors to consider revision. Here is an example of a paragraph made of only two sentences and too many commas: The state of Maranhão present a strong predominance of Cerrado areas, where knowledge about Fabaceae presents several gaps mainly related to biodiversity records, verifying the need for management and conservation of the family species, since the Cerrado phytogeographic domain is subject to strong anthropogenic pressures. The knowledge and registration of biodiversity provides support for future research, of the most diverse nature, clarifying the doubts about the nomenclature of the species, with the potential to increase the knowledge of occurrences of new groups, verified in the work of [15] which recently recorded new occurrences of species of Papilionoideae for the state of Maranhão. “Fabaceae is the most diverse tree family in the world [1], with a wide distribution of species, registering 770 genera and 19,500 species [2]” The sentence above is misleading. Although the authors are talking about the family in regard of its <u>tree composition</u> they cited the total number of genera and species in the family. Figures are in black and white, hard for reviewers to make sense of Fig. 3. Life habits has 21 of the 22 species!! Make the corrections in read Abstract: - So the objective of the research was to catalog..... - Monthly expeditions were carried out to observe, collect and identify the botanical material for this study. - This sentence: “For the collection of the specimens in the field, was given priority the presence of the reproductive stages of the species (Flower and Fruit)” should read: For the collection of the specimens in the field, the presence of the reproductive stages in the species (Flower and Fruit) were given priority - demonstrating the occurrence of taxa for future studies, management and conservation. Introduction - In Brazil, 2848 species (1539 endemic) representing 222 genera are recognized [3]. - The family is recognized for its economic and ecological importance - Bacteria of the genus Rhizobium located in root nodules found in all? species of Fabaceae converting atmospheric nitrogen into ammonia, a soluble form that can be	noted

- Comment [GG1]: Adding the "TO" was necessary to give sense
- Comment [GG2]:
- Comment [GG3]: I agree, because I was lacking this to give consistency in this period.
- Comment [GG4]: This broker's recommendation is clearer and more objective than it was in the manuscript.
- Comment [GG5]: The substitution recommended by the "LATER" broker for "FUTURE" leaves the sentence more coherent
- Comment [GG6]: The addition of this word gives more sense, in addition to making the situation clearer.
- Comment [GG7]:
- Comment [GG8]: I agree, because the word that was, was breaking the English rules
- Comment [GG9]: I agree, then genus should be in italics
- Comment [GG10]: Yes, this is an adaptive characteristic of the family
- Comment [GG11]:
- Comment [GG12R11]: I agree, because this word suggested by the broker, matches the idea you wanted to give



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	used by other plants - The state of Maranhão presents a strong predominance of Cerrado areas, ... Material and Method: - The state of Maranhão has a surface area of 331,983.29 km², being the eighth largest Brazilian state and the second in the Northeast in territorial extension - It is located between the parallels 01 ° 01' and 10 ° 21' South and the meridians 41 ° 48' and 48 ° 50' West. - The Municipality was created by Law 764, dated December 22, 1934 [17]. - With the biome Cerrado type, representing most of the vegetation cover, the municipality of Coelho Neto, together with other municipalities, have the Area of Environmental Protection of the Morros Garapenses, with 234,768 ha, (remove of area,) created by Decree No. 25.087 of December 31 of 2008 [18]. - Monthly expeditions were carried out in September 2016 to June 2017 to observe, collect and identify the botanical material in the municipality of Coelho Neto/MA. - The collection of the botanical material in the field was performed during the reproductive stage. With the aid of pruning shears at least five branches of each individual were collected from the area. They were then packed in a plastic bags and tagged according to the collection sequence following the methodology of [19]. - Regarding the characteristics of the plant and the collection itself, the following were noted: plant habit, height, characteristic of the bark, color and texture of leaves, flowers and fruits and other striking features that will aid in identification. - In the botanical herbarising process, the plant specimens were pressed between newspaper sheets, cardboard and dried at ambient environmental temperature. - The dried plant material was then glued to a paperboard of an appropriate size (28 x 42 cm), where it received a label with the information collected for each plant. - What is exsicata?? - ...and sending samples to specialists in the group for confirmation of identification. - After the species identification and exsiccate?? assembly, they were deposited in the Herbarium of Prof. Aluizio Bittencourt (HABIT) together with other Fabaceae. All identification and field data were stored in exsiccate?? information sheets. Results - The 41 specimens we sampled represent 14 genera and 22 species of Fabaceae found in the Municipality of Coelho Neto. - As for the diversity of genera, Papilionoideae was the most represented subfamily with seven genera some of which showing a broad geographic distribution [2]. - Regarding the genera under study, Mimosa was the most represented genus with five species, followed by Bauhinia with three species and Aeschynomene with two species respectively (Fig. 2). - Figure 2. Number of species sampled for each genus of Fabaceae - The habit of this family is variable, from trees, shrubs, sub-shrubs to upright herbs, creeping or even climbing [26]. - This habit (which one? Please specify) of life is characterized by woody structures of varying size, but not exceeding 6 m in height, and stem with branches very close to the ground [35].	
Optional/General comments		

Comment [GG13]: I agree, because the form it was written was wrong

Comment [GG14]: Much clearer approach to what was in the manuscript.

Comment [GG15]: I agree

Comment [GG16]: I totally agree, because in a few lines the broker expressed the central idea.

Comment [GG17]: The approach suggested by the broker gives a chronology that facilitates the understanding of the text.

Comment [GG18]: This suggestion organizes ideas.

Comment [GG19]: The terms used by the author are more scientific and objective.

Comment [GG20]: Correct, because the broker made that part of the methodology clear.

Comment [GG21]: It's actually exsiccate. This writing was wrong.

Comment [GG22]:

Comment [GG23R22]: Sim, todas as informações forma adicionadas na exsicata.

Comment [GG24]: The way the broker approached the initial part of the results made the ideas clearer.

Comment [GG25]: The way the broker organized the outcome data, was clearer with more technical language.

Comment [GG26]: This makes mention of the habit predominate "shrub"