Review of: "A Study for Estimation of Greenhouse Gas Emissions of Cotton in Central Greece"

Pedro Machado[1]

1 Brazilian Agricultural Research Corporation (EMBRAPA)

Potential competing interests: No potential competing interests to declare.

The subject of the paper is relevant as it deals with agriculture in a climate crisis, particularly greenhouse gas emissions. The manuscript may be published after minor revision. Please, find below some general comments:

1. The GHG emissions reported per ha and per kg cotton in two years are typical for the studied fiber crop, including studies using different calculator such as FAO ExAct.
2. Mineral fertilizer was the main source of GHG emissions. The authors, however, have described it in Fig 1, Fig 2 and Fig 4. It seems to be too repetitive and too descriptive with very modest discussion about the very reasons for differences observed. What should be the reason for the cotton fields in Elatia to receive ‘excessive’ amounts of fertilizer if Elatia region showed similar soil type to the other two regions and the content of organic matter was also similarly low?
3. What is the reason for the emissions from energy use being highly variable in 2020 and 2021?
4. The last paragraph on page 3 should be moved to Mat & Met.
5. Scientific names of the different pests listed on page 5 should be included;
6. In Mat & Methods, page 6, clay content (in g/kg) of each soil must be added
7. Conclusions are too long. Most paragraphs should be moved to Results & Discussion.
8. I am not an English native speaker mysel, but the manuscript deserves good review of use of English