

Review of: "Sustainable Agriculture and Climate Resilience in Türkiye: A Comprehensive Analysis"

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Potential competing interests: No potential competing interests to declare.

The study "explores the concept of "Green Solutions" in agriculture, emphasizing environmental sustainability and the preservation of biodiversity, while addressing food security and population growth." It is an important topic. The article also states that its main objective is "main objective is to evaluate how well sustainable agricultural methods may be used to lessen the effects of climate change on Turkish agriculture. It aims to examine the interactions between Türkiye's environmental policies and economic development plans while taking into consideration important economic indicators and worldwide choices and legal laws." These two statements about the objective of the paper are not very well aligned. It is hard to understand the main objective of the paper.

I think the topic is too broadly defined for an academic article--it is hard to understand what the original contribution of the paper is. As the author knows sustainable or green agriculture may refer to a wide set of practices; with very different input intensities and technological or human capital requirements (i.e., no tillage farming vs. smart technologies that include remote sensing etc.). Furthermore, adoption of these technologies have different (short-run and long-run) costs. As such, although the adoption of technologies has potential benefits for ecology and environment, their impact on farmers' costs or revenues will be varied (may also be negative) depending on the specific technology, region, etc. There is a vast literature assessing the impact of F2F (farm to fork) strategies in Europe and these studies indicate that they will cause higher costs and prices for various food. So when discussing food security, one should definitely take into consideration these negative aspects (which are crucial to understand the needed subsidies for transition to a sustainable food system).

The article says it "uses a thorough research methodology that combines economic modeling, policy analysis, and literature reviews." I am not sure where the modelling part is. I also have difficulty understanding how the different parts of the article fit together and make up a coherent whole. Regarding the last parts (the trends in rice and wheat yields), it is not clear how the author (using which methods etc.) makes the claims about the reasons underlying yield increase or how (depending on what type of sources) identify potential threats to sustainability in these specific sectors.

In its current form, the paper seems more like a report on various aspects of sustainability in Turkish agriculture. The novelty in terms theoretical contribution or empirical evidence is not very clear. I strongly suggest that the author narrows down the topic (maybe not promise to delve into 'economic' indicators in the introduction), and focus on 'certain strategies' and discuss those by using a more rigorous methodology.

