Review of: "New Method to Identify Potential Illegal Water Use Location by Using Remote Sensing and Neural Networks in Laguna de Aculeo, Chile"

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Potential competing interests: No potential competing interests to declare.

The paper focuses on identifying the illegal use of water resources and evaluates the health of lawns during a dry season using multi-spectral and multitemporal satellite data. It presents the methodology of data pre-processing, tools, and protocols for identifying illegal water usage in areas facing water scarcity, providing crucial information for governmental authorities to enforce legal sanctions and undertake personal inspections. It offers a possibility to assess the health of vegetation cover in an entire watershed over time.

The paper is well-written and organized. The subject is topical and of great interest, highlighting a new field of research that eliminates the need to go to the field to obtain information on any study area. It effectively provides an approach to monitoring and enforcing water usage restrictions in water-scarce areas. It illustrates the potential of remote sensing information as a reliable database for investigating various areas with excellent spatial and temporal resolution.

The paper matches the scope of the journal and is suitable for publication. Here are some remarks for improvements:

- While the results are promising, a more in-depth discussion of the limitations and challenges faced during the study could provide a more comprehensive analysis.
- Add more references.
- Add a future scope of this work to the conclusion section.