



## Improved Irrigation Management Practices in Crop Production

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### Message from the Guest Editors

Agricultural production is challenged by water scarcity and food security due to the uprising problems of climate change and environmental pollution. Therefore, it is essential to increase agricultural production under varying climate conditions. Thus, adopting agricultural production systems to variations in agro-ecological conditions is of increasing interest. Irrigation is described by the quantity of water required to supply the soil for a crop. However, due to recent limitations on freshwater resources, crop production systems need to implement innovative irrigation tactics to decrease water consumption without reducing the yield, enhancing crops' water productivity. Therefore, understanding the water productivity responses of the crop to the varying agro-ecological conditions is critical to identify the appropriate water submission for crop production. Thus, recent research has shed light on improving the water productivity of crops under various irrigation systems.

[...]

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