

Safe Use of Treated Wastewater in Agriculture : The case of Jordan

Progress.....





Jordan is a pioneer country in practicing planned and regulated use of reclaimed water in agriculture. Since early eighties, Jordanian government officially promotes agricultural use of reclaimed water and considers treated wastewater a valuable resource for agricultural sector.

Jordan's water strategies and polices

All treated wastewater will be used for irrigation whenever safely possible while ensuring that health standards for farm workers as well as consumers.





Currently;

Treated wastewater is included in the water budget for use in irrigated agriculture, it currently constitutes 17% of the annual irrigation water budgets.





Current agricultural reuse practices include

Direct reuse

Use the effluent of wastewater treatment in irrigation of fodder crops and trees

Indirect reuse

Blending treated wastewater with freshwater to irrigate fruit and vegetables crops in the Jordan Valley

The regulations emanating from agricultural law no. 44/2002, which lays down the general principles and requirements of agricultural wastewater use.
JS 893/2006, allowing the cultivation of fodder, fruit trees, vegetables eaten cooked and cereals.



Nevertheless Direct reuse is currently restricted to cultivation of fodders and fruit trees, Practice regulated through agreements held between Water Authority of Jordan and farmer.

In an attempt of introducing the concept of preventive risk management to the agricultural wastewater use in Jordan. A new guidelines that is based on the WHO (2006) guidelines were issued " Irrigation water quality guidelines- JS 1766:2014



Even so, these guidelines are not being fully implemented yet

Due to the lack of

- Regulatory and monitoring framework
- Resources for operational monitoring and verification
- Institutional coordination

To move forward, a framework for validation and operational monitoring need to be established

Complying with food laws and food safety regulations system Safe production, handling, storage and transport of products

Good manufacturing practices (GMPs)

Apply principles and practices of food safety management





To move forward;

- Revisit laws and regulations for coordination
- Development of institutional framework for verification and operational monitoring.
- Endorsement of decentralized sanitation systems
- Involvement of private sector



Thank you