

Evaluation of Some Irrigation Water in Central Region of Saudi Arabia

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Irrigation water quality and its suitability for agriculture from different wells and treated sewage water from some areas in the central region were analyzed and evaluated. It was found that well irrigation water in that region is considered to be medium saline to very saline water, with no sodium hazard expected from this water on soils classified as sandy loam. Sewage treated water was found to be very suitable for irrigation with no salinity or sodium hazard expected. Dominant cation of well water is Ca and the major anion is SO_4 . The values of pHc of the water indicate that the water has a tendency to precipitate calcite. Cultivated crops, irrigation management, soil properties should be considered in application of water for irrigation.