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## SALINITY IN ARID-ZONE SOILS

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### Abstract

Soil salinity is a factor that must be taken into account to characterize the environment of plants' development. The reactions of cationic exchange regarding  $\text{Na}^+$ ,  $\text{Ca}^{+2}$  and  $\text{Mg}^{+2}$  cations have a great importance for soils of arid areas. Also, in these areas, the application of irrigation is a must. From the perspective of soil chemistry, all irrigation water are complex electrolyte solutions. In this context, the study presented in this work reveals a number of issues regarding: cationic exchange reactions and colloidal phenomena, the characterization indexes of salinity and alkalinity, irrigation water quality and its influence on the regime of saline soils, such as the irrigation systems supplied from the Siret and Buzau rivers.

*Key words:* cation exchange, irrigation, soil salinity

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