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Asst. Prof. Dr. M. Cüneyt BAĞDATLI
Asst. Prof. Dr. Erkan KALIPCI

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Total and Bioavailable Phosphorus in Harran Plain

Osman SÖNMEZ^{1*}, Cengiz KAYA², Adem GÜNEŞ¹, Serkan ŞAHİN¹

¹ Erciyes University, Faculty of Agriculture, Department of Soil Science and Plant Nutrients, Kayseri/Turkey

² Harran University, Faculty of Agriculture, Department of Soil Science and Plant Nutrients, Şanlıurfa/Turkey

*Corresponding Author: osmansonmez@erciyes.edu.tr

Abstract

South East Anatolian Project is the most important integrated Project which also covers Harran Plain with the total area of 225.000 ha. Especially, over-applications of phosphorus (P) increased soil total P (TP) concentration to high levels while bioavailable P (YP) remain low. The Harran Plain that was sampled at 1x2 km intervals on the grid system, and the soil samples (1032) from the detected points (516) were obtained from depths of 0-30 and 30-60 cm. The soil TP concentrations in the plain were ranged between 301 and 2583 mg kg⁻¹) with a average of 775.8 mg kg⁻¹. The YP concentrations of soils in the Harran Plain changed from 0,1 to 78,5 mg kg⁻¹ with a average of 4.42 mg kg⁻¹. In general, the plain has a medium TP and low YP concentrations.

Keywords: Phosphorus, Total P, Bioavailable P