

Research Article

DOI : 10.15740/HAS/AJSS/9.2/280-283

Phosphorus uptake by fodder maize (*Zea mays* L.) under different cadmium levels with or without farm yard manure in loamy sand and clayey soils of Gujarat

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Received : 19.10.2014; Revised : 01.11.2014; Accepted : 18.11.2014

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Summary

A pot experiment was conducted during summer, 2013 by growing fodder maize (*Zea mays* L.) in loamy sand and clayey soils of Anand and Karvan with five levels of Cd (0.0, 2.5, 5.0, 7.5 and 10.0 ppm) and two levels of FYM (0 and 10 t ha⁻¹) to assess the effect of Cd levels in present of FYM on phosphorus uptake by plant components and total phosphorus uptake by the crop. The result revealed that phosphorus uptake in plant components significantly decreased when 10.0 ppm Cd was added. The total P uptake by maize plant significantly decreased at each level of Cd application. The clayey soil recorded significantly more P uptake as compared to loamy sand soils. The phosphorus removal was significantly higher in FYM treated pot as compared to no FYM application.

Key words : Cadmium, Phosphorus uptake, Farm yard manure, Loamy sand, Clayey soils

How to cite this article : Rathod, Sandipkumar V., Chaudhary, N.N. and Parmar, J.K. (2014). Phosphorus uptake by fodder maize (*Zea mays* L.) under different cadmium levels with or without farm yard manure in loamy sand and clayey soils of Gujarat. *Asian J. Soil Sci.*, 9(2): 280-283.