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Research Article

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Soil-site suitability evaluation for chickpea in micro-watershed of Wardha district, Maharashtra

■ NILIMA S. SADANSHIV, PRAJAKTA M. METKARI AND YOGITA D. GORE

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MEMBERS OF RESEARCH FORUM:

Corresponding author :
NILIMA S. SADANSHIV, Department of Soil Science and Agricultural Chemistry, Dr. Panjabrao Deshmukh Krishi Vidyapeeth, AKOLA (M.S) INDIA

Co-authors :
PRAJAKTA M. METKARI AND YOGITA D. GORE, Department of Soil Science and Agricultural Chemistry, Dr. Panjabrao Deshmukh Krishi Vidyapeeth, AKOLA (M.S) INDIA

Summary

In the present study, soil-site suitability evaluation was made for the Nagalvadi micro-watershed of Wardha district for chickpea (*Cicer arietinum* L.). Five soil series representing major land forms of Nagalvadi micro-watershed were evaluated for their suitability to chickpea cultivation using limitation method regarding number and intensity of limitations. The study suggests that chickpea is moderately suitable in soils of NG-2 and NG-5 but soils of NG-1, NG-3 and NG-4 are not suitable for chickpea cultivation. Soil depth, wetness (drainage), texture, coarse fragments, soil pH and organic carbon are the major limitations for crop growth in the most of soils of Nagalvadi micro-watershed. The suitability classes can be improved if the correctable limitations (soil fertility characteristics) are altered through application of farm yard manure, green manuring and inclusion of legumes rotation.

Key words : Evaluation, Micro-watershed, Chickpea

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