Micronutrient Fertility Mapping For Indian Soils

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ICAR

All India Coordinated Research Project of Micro and Secondary Nutrients and Pollutant Elements in Soils and Plants

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Indian Institute of Soil Science (ICAR)

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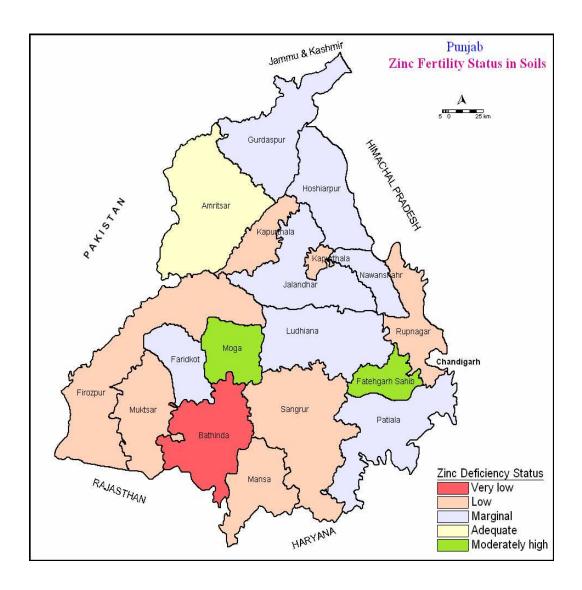
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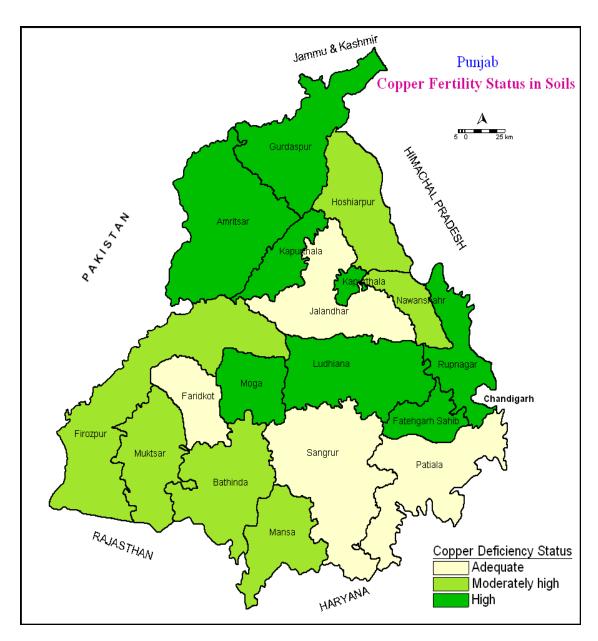
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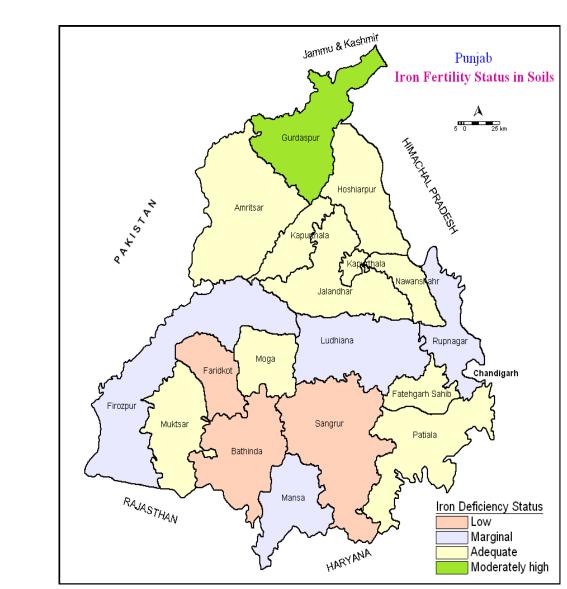
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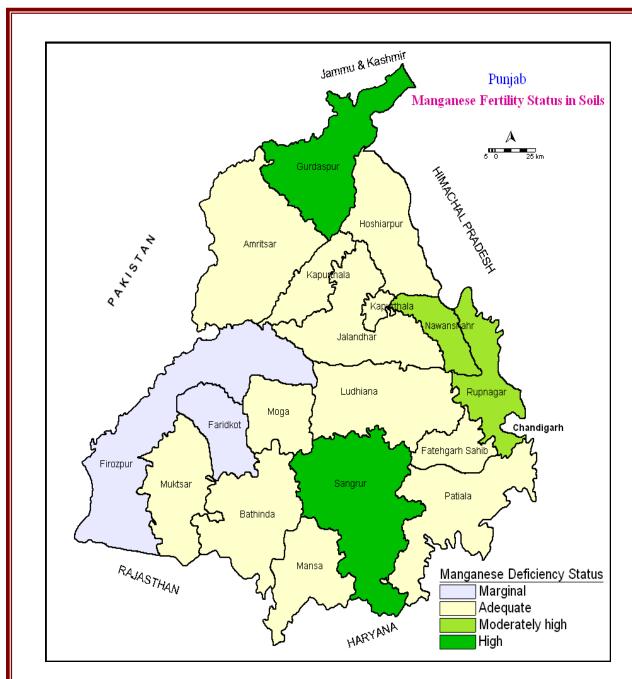
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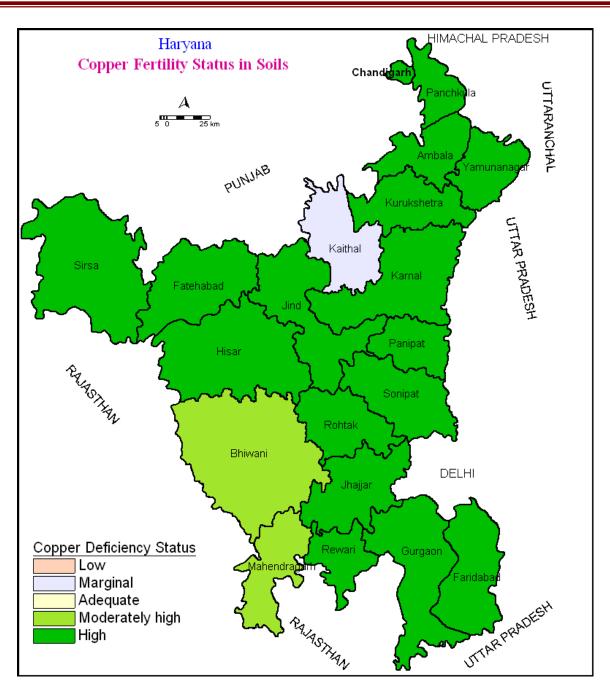
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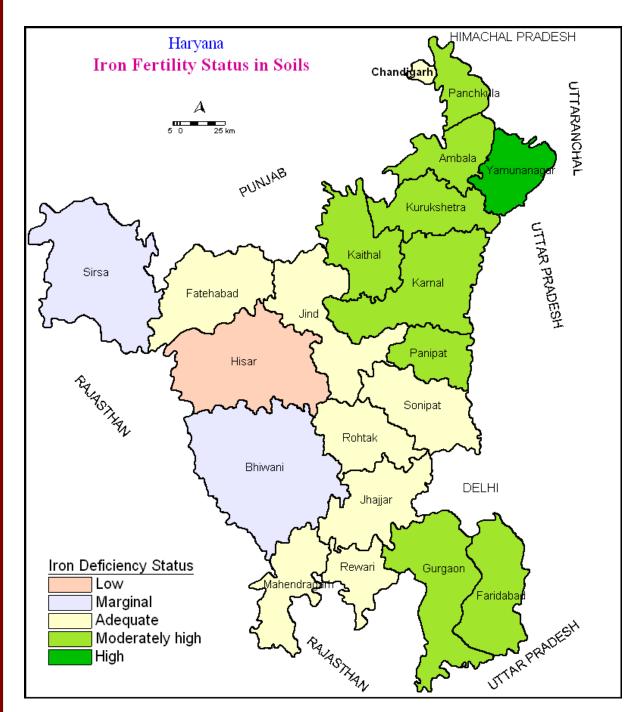


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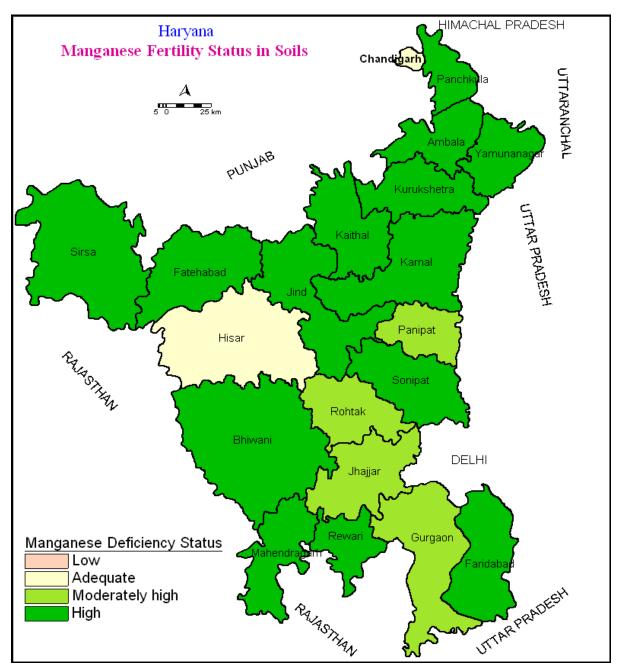
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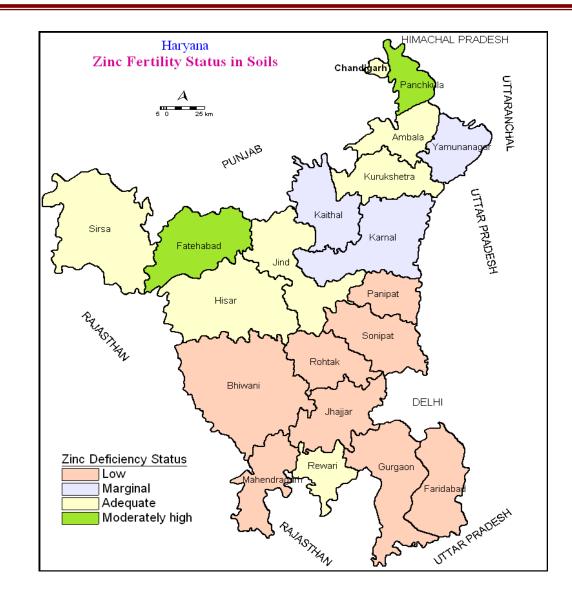


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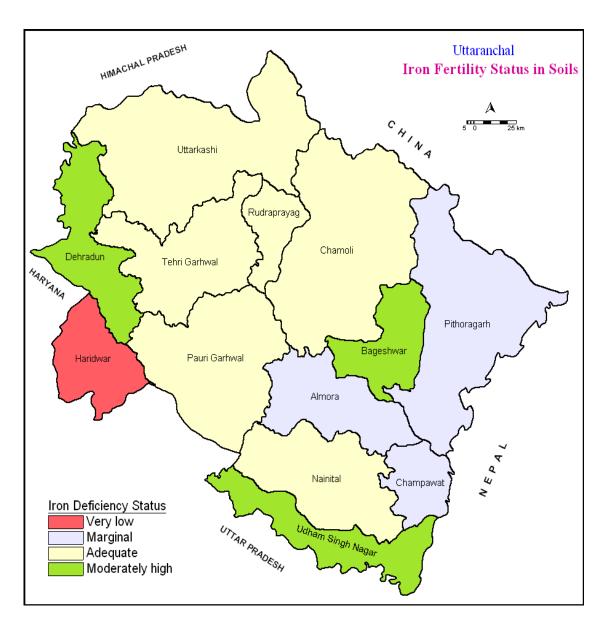


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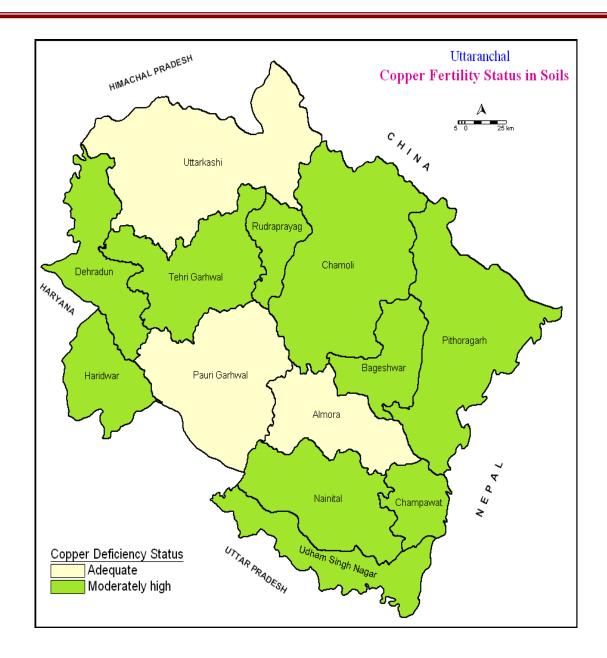
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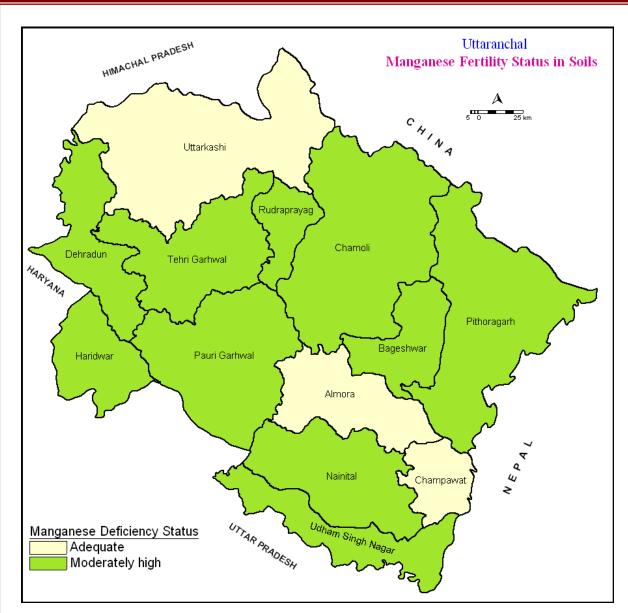


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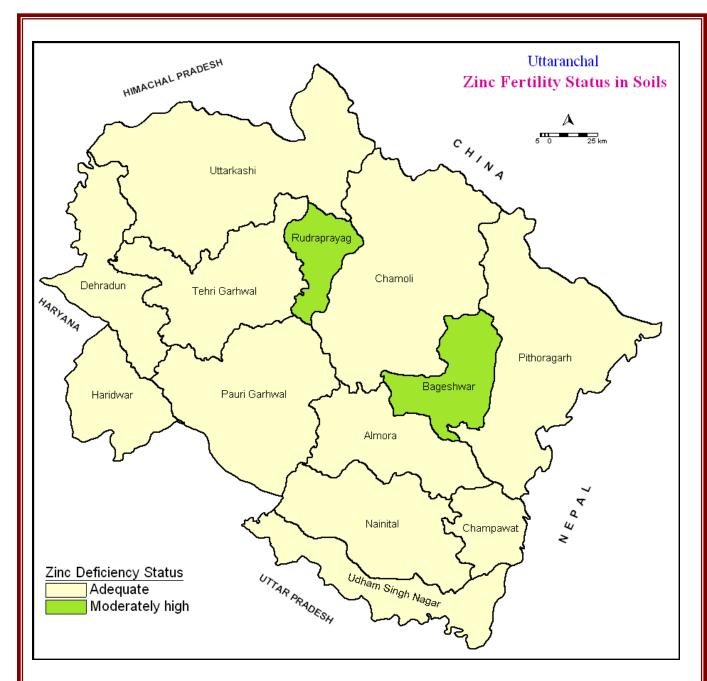
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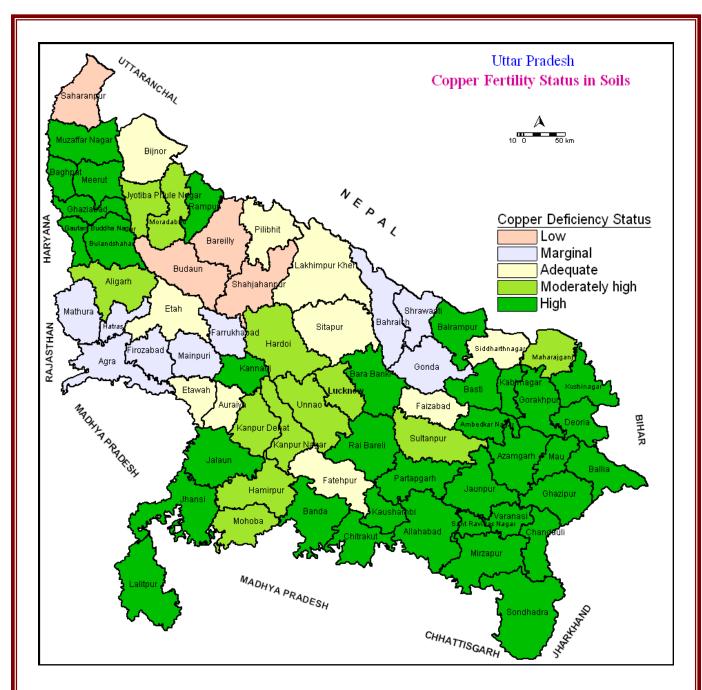
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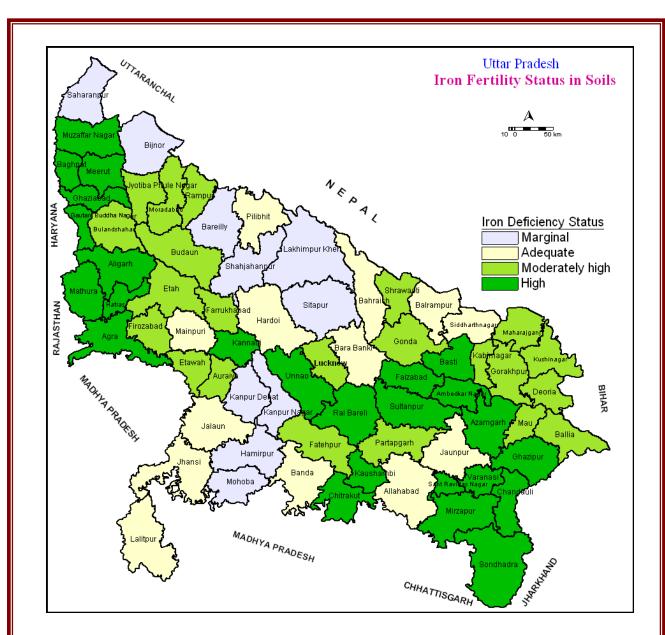
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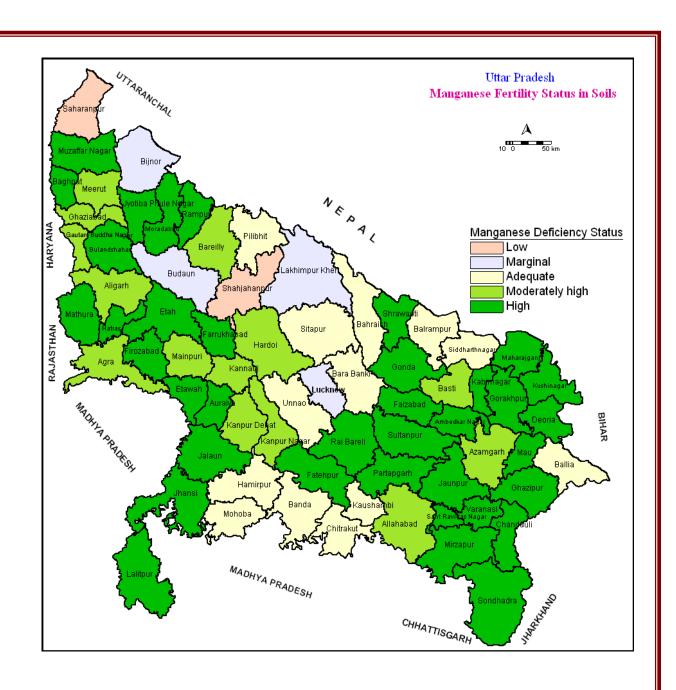
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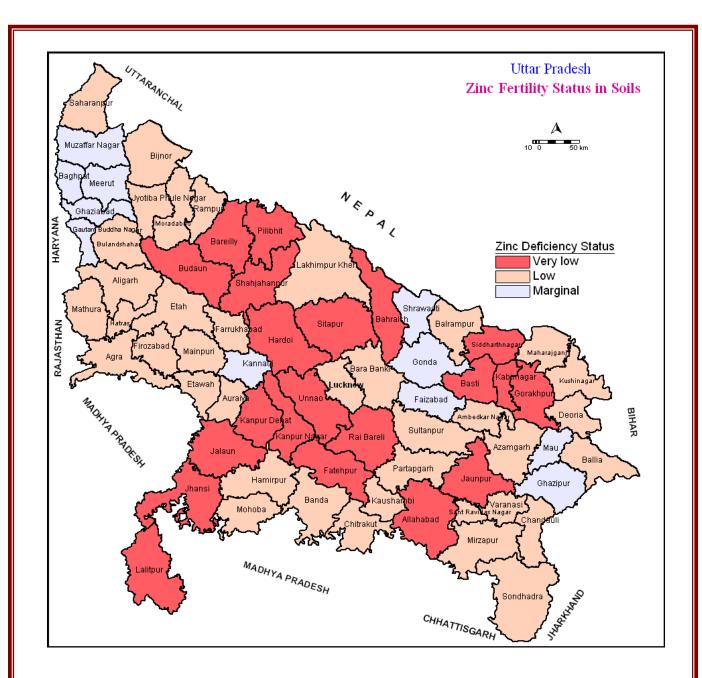
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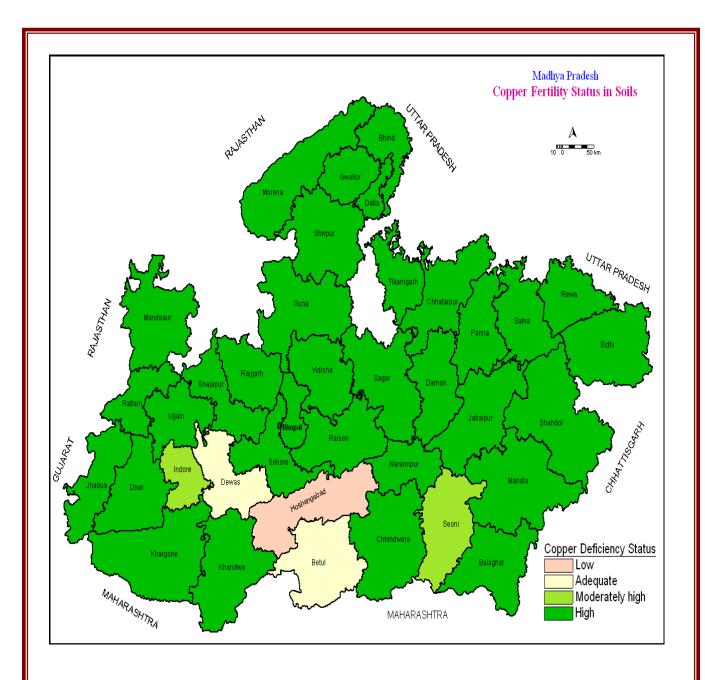
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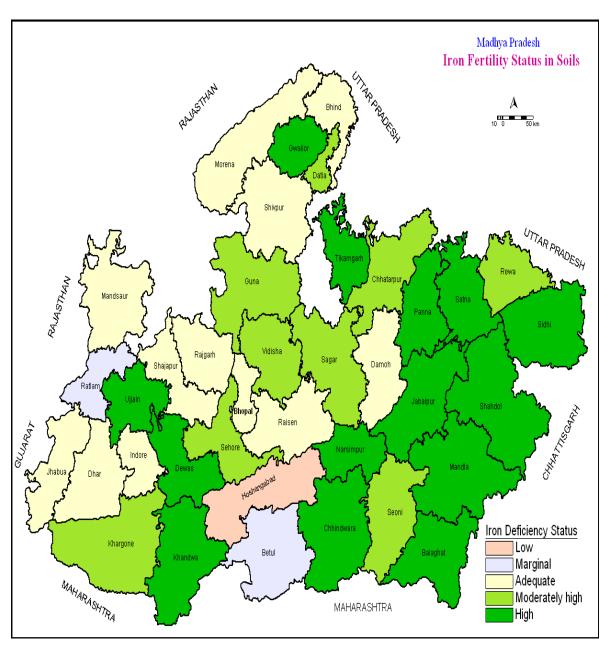
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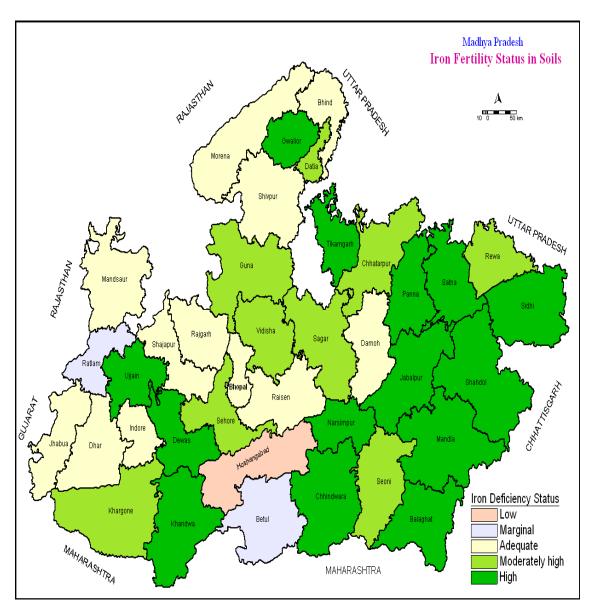
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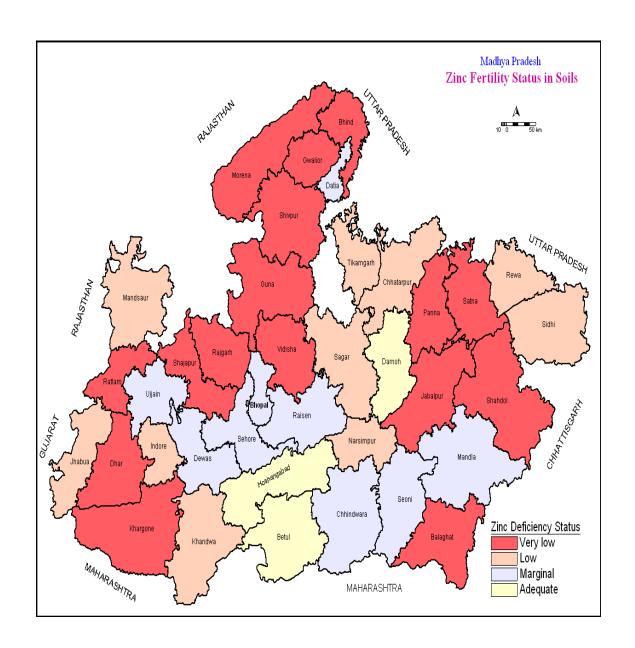
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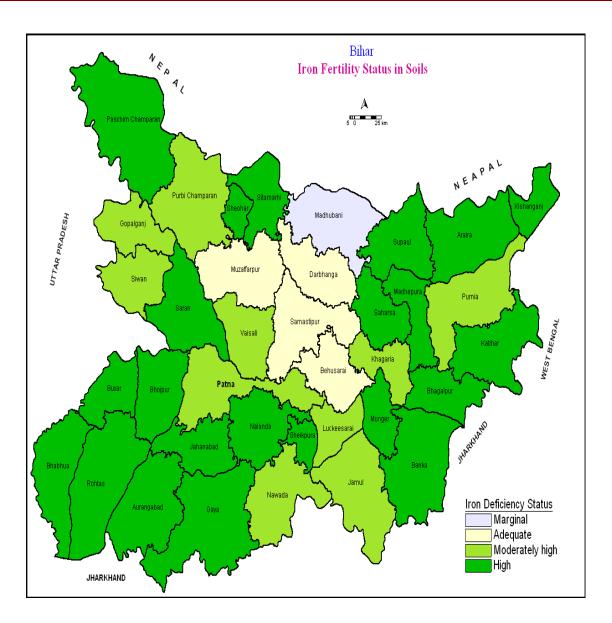
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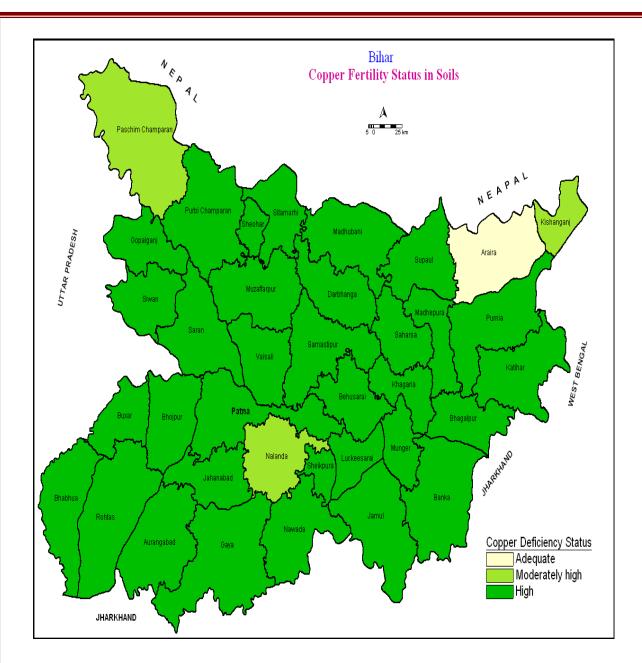


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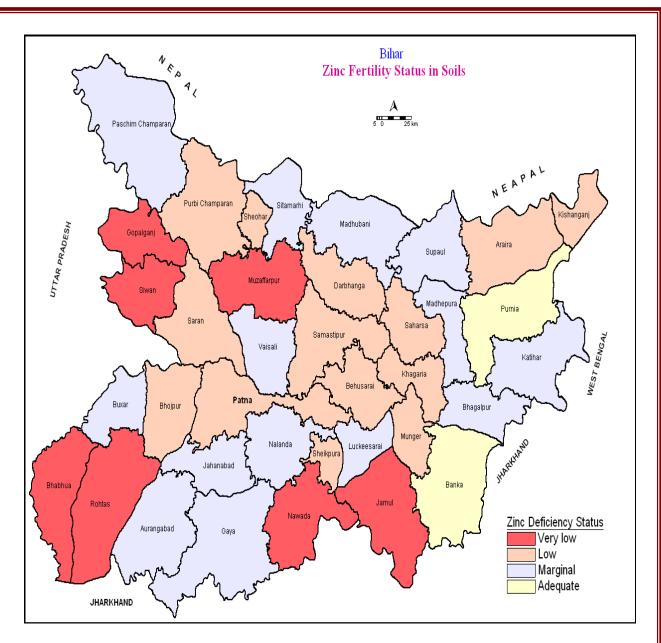
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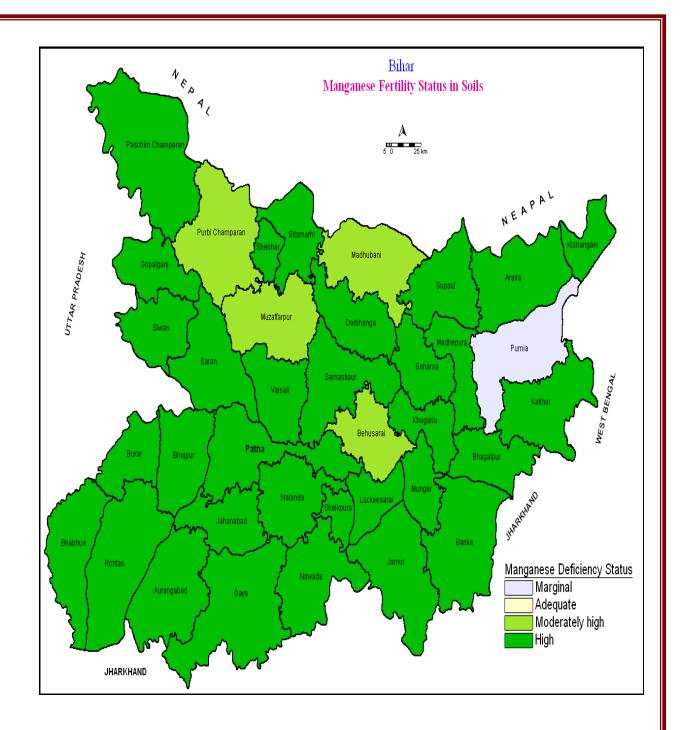
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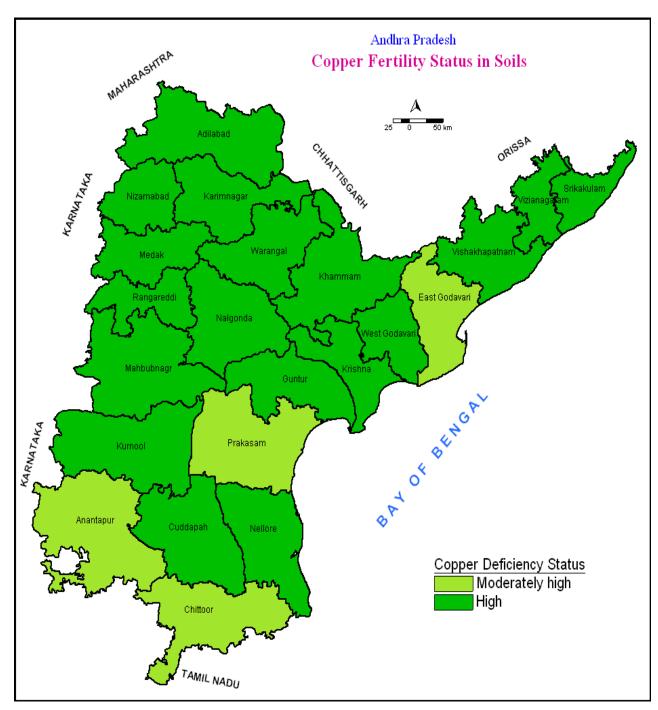
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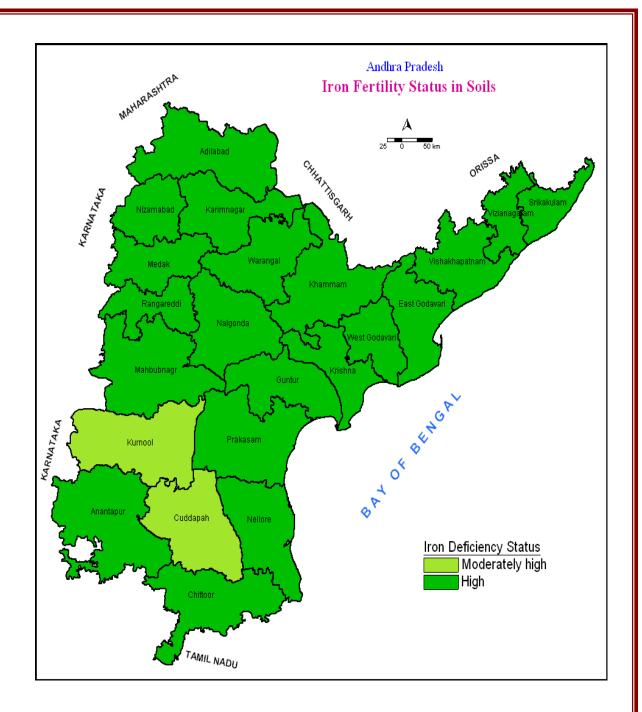


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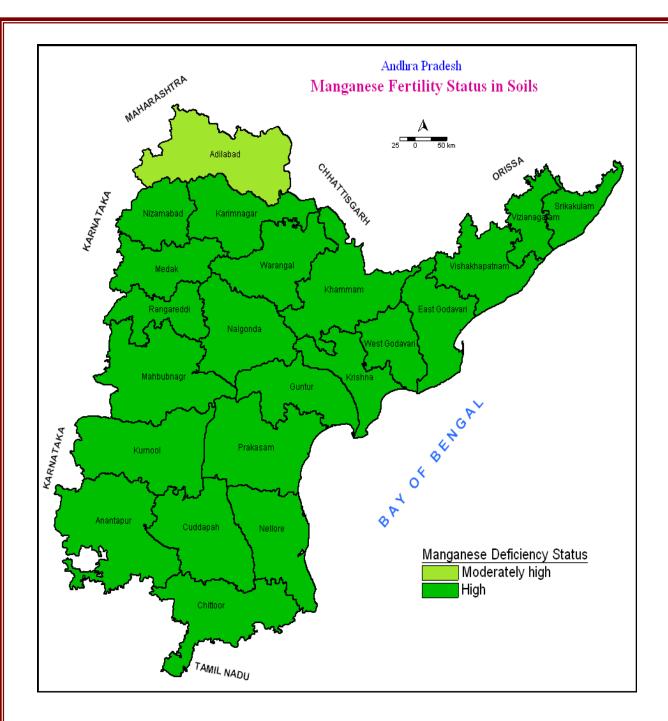
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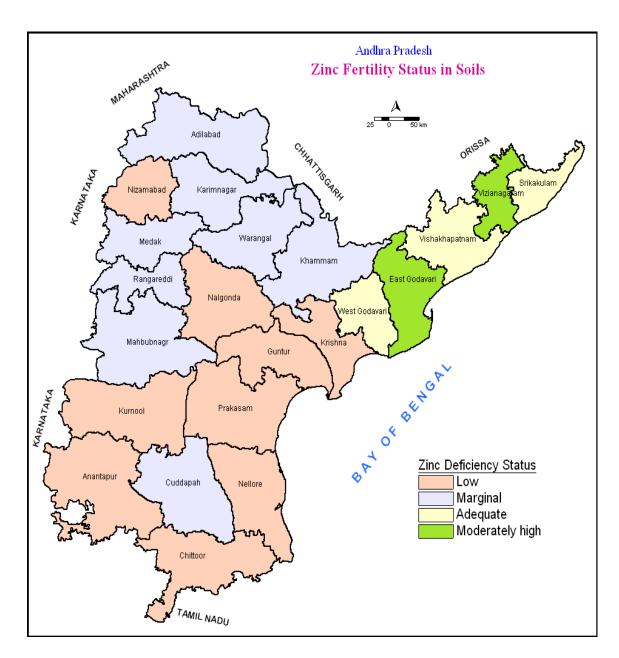
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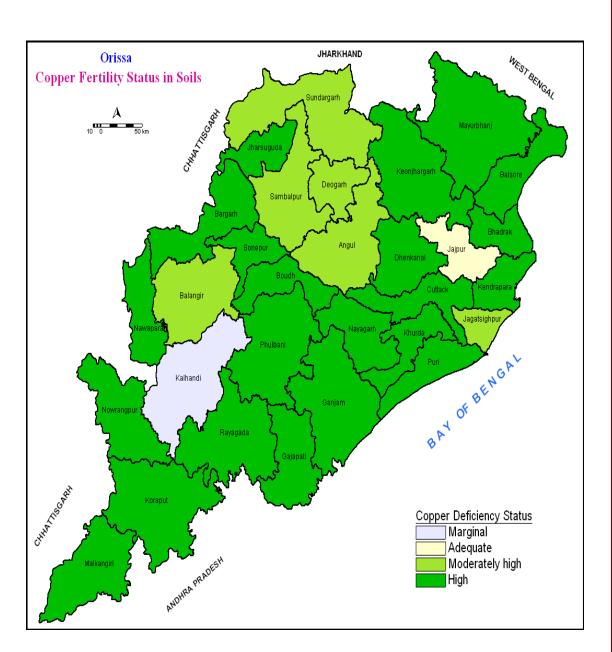
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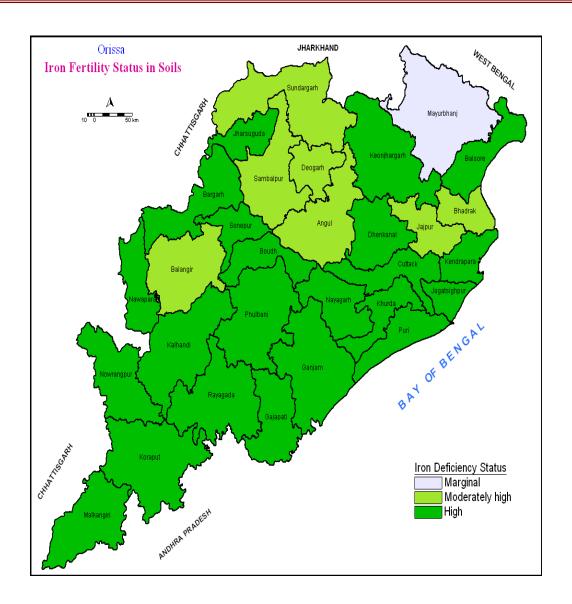
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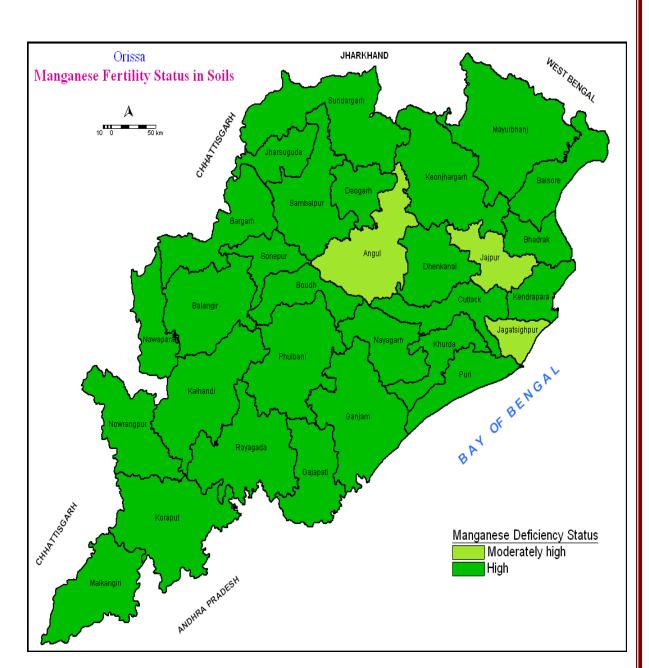


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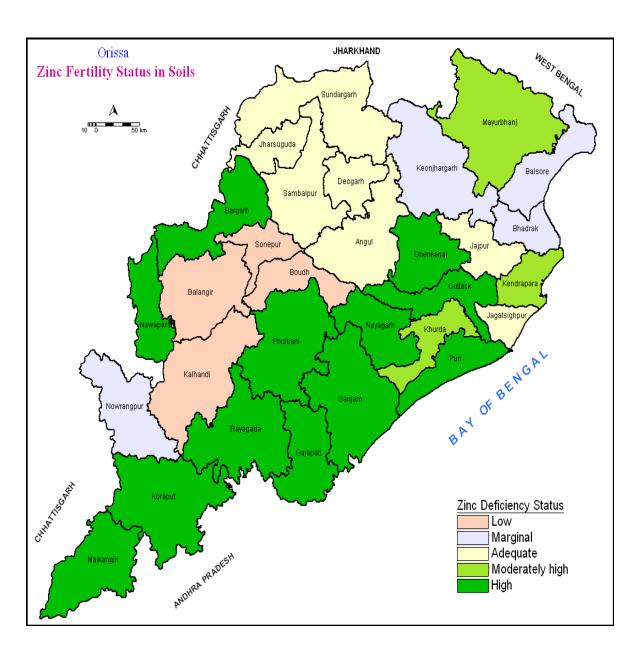


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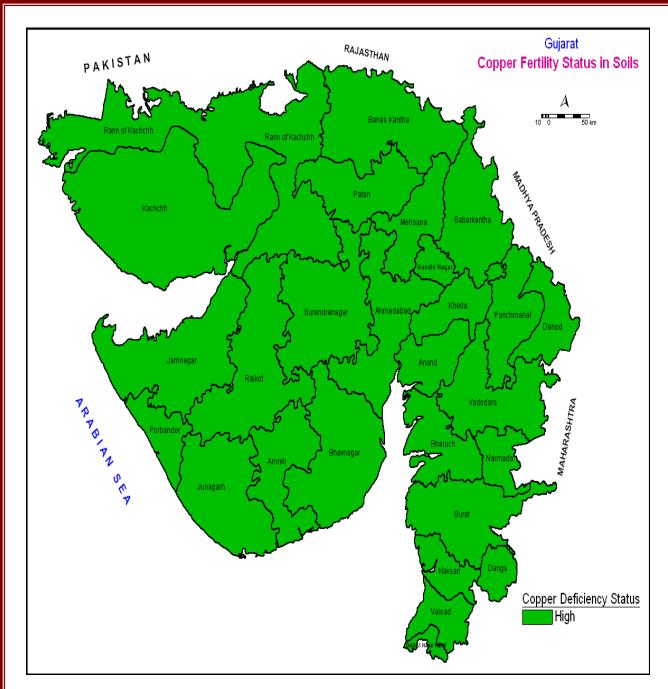
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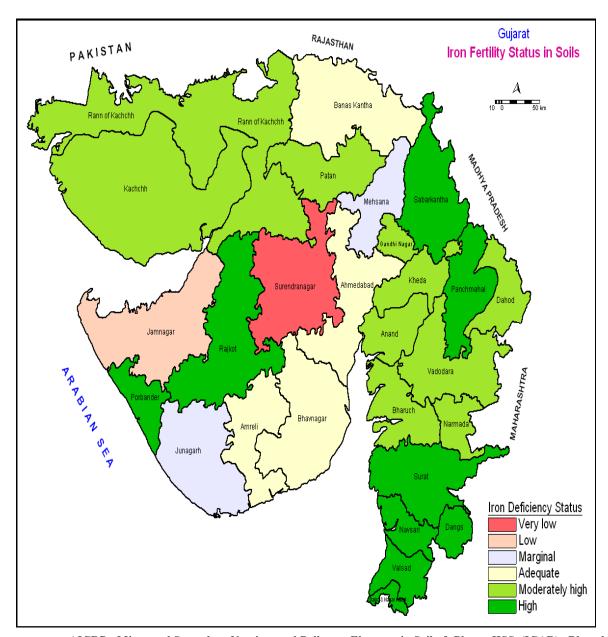
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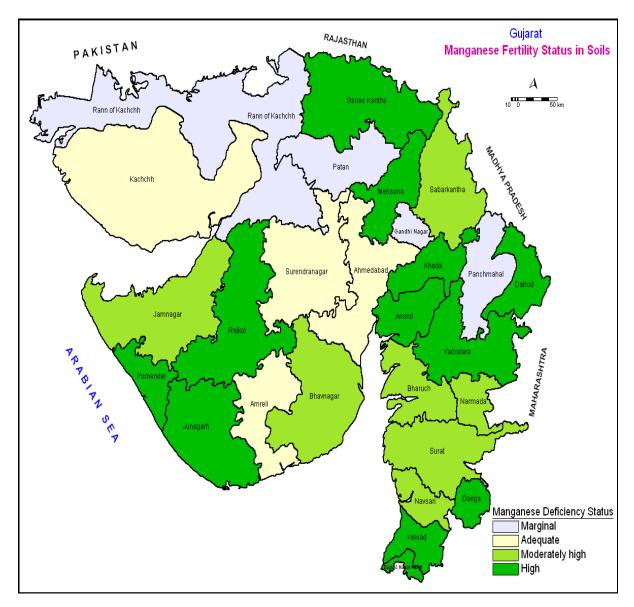
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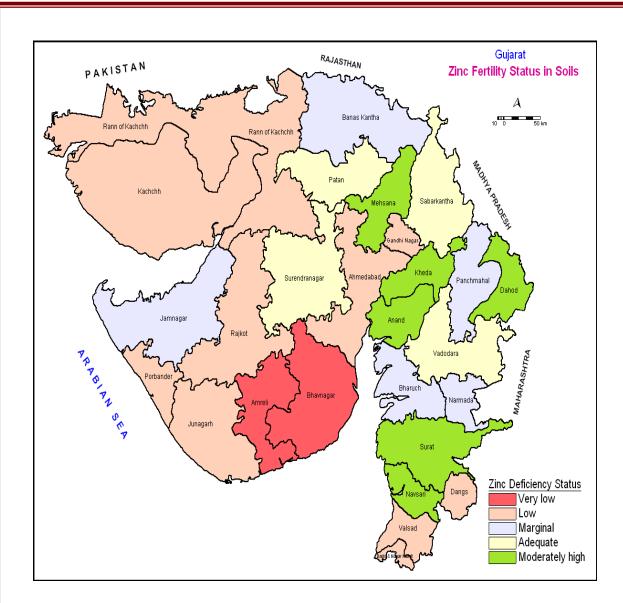
Data source: AICRP - Micro and Secondary Nutrient and Pollutant Elements in Soils & Plants, IISS, (ICAR), Bhopal AICRP Macronutrients Unit, Agril. Experimentation Station, ANG RAU, Rajendra Nagar, Hyderabad, and all the micronutrient researchers in the country and for mapping cooperation by National Bureau of Soil Survey and Land Use Planning, (ICAR), Nagpur (MS)

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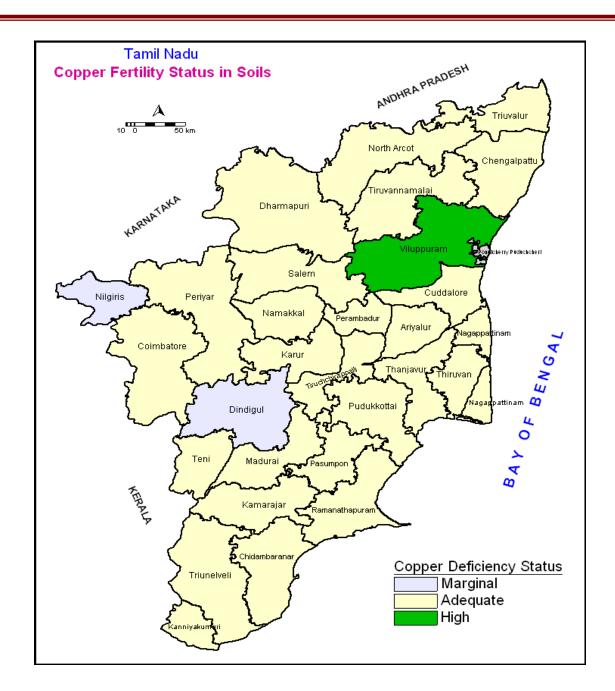
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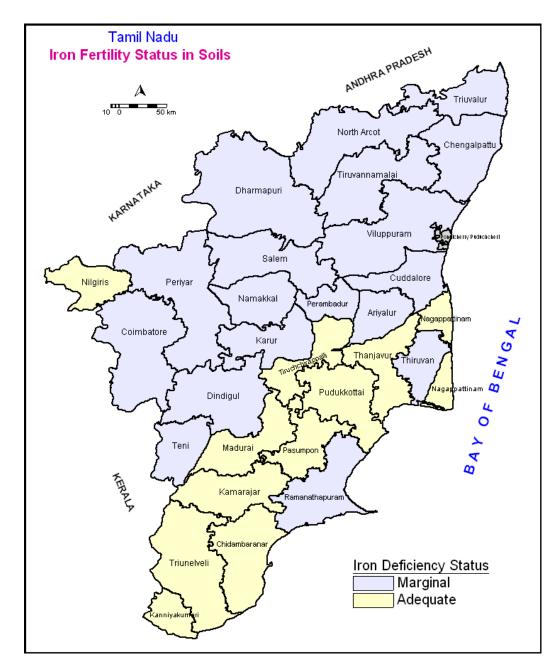


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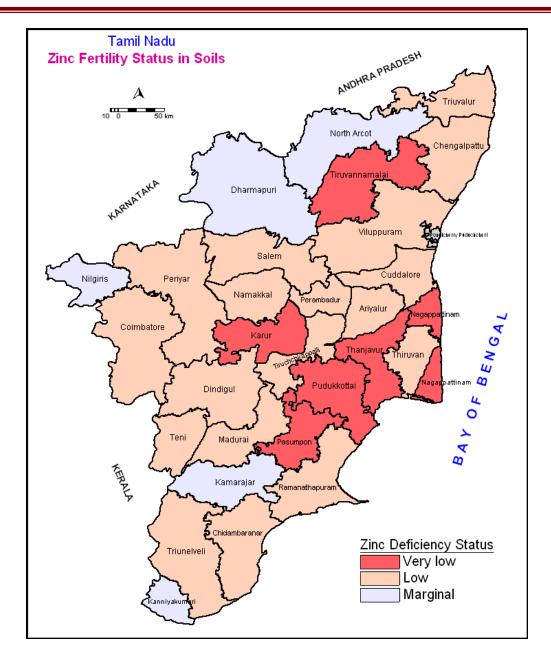
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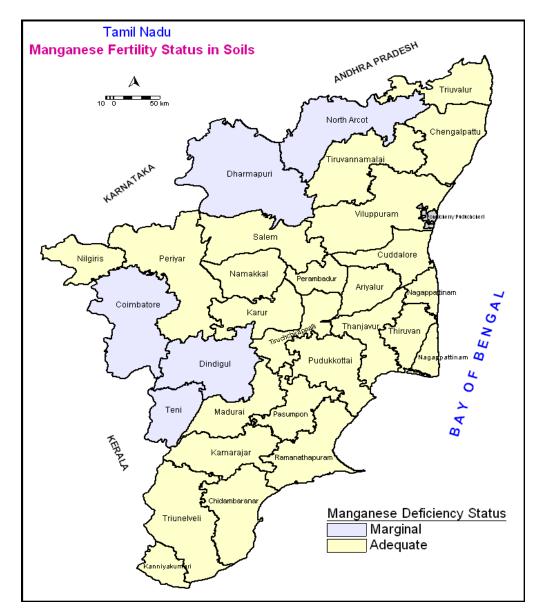
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Citation. Singh, M.V., V. Velu and A.K.Maji (2008) Iron fertility status in soils of Tamil Nadu. Micronutrients Fertility mapping for Indian soils. Tech. Bulletin AICRP, Micronutrients, IISS, Bhopal 7, 1-60.



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