

State	Predominant Soil Types	Average N Content (kg/ha)	Average P Content (kg/ha)	Average K Content (kg/ha)	Common Micronutrient Deficiencies	Average Annual Rainfall (mm)	References
Haryana	Alluvial soils (from Indo-Gangetic plains), loamy soils	150–250 (low to medium)	10–25 (medium)	200–500 (medium to high)	Zinc (Zn) deficiency common; Iron (Fe) generally adequate	500–700	1. ICAR (Indian Council of Agricultural Research) 2. Soil Health Card Scheme, GoI 3. Singh et al. (2017), <i>Indian Journal of Agricultural Sciences</i>
Alluvial soils (from Indo-Gangetic plains), loamy soils	Red soils, Black soils, Lateritic soils, Coastal alluvials	100–250 (low to medium)	5–20 (low to medium)	150–400 (medium)	Zinc (Zn) and Boron (B) deficiencies in some regions	900–1200	
150–250 (low to medium)	Alluvial, Loamy	180–250 (med)	15–25 (med)	200–450 (med-high)	Zn deficiency common	700–800	
10–25 (medium)	Alluvial, Loamy, Shallow in hilly areas	170–240 (med)	15–25 (med)	200–400 (med)	Zn deficiency, occasional Fe issues	800–900	
200–500 (medium to high)	Alluvial, Loamy	180–260 (med)	15–25 (med)	200–450 (med-high)	Zn deficiency common	800–900	
Zinc (Zn) deficiency common; Iron (Fe) generally adequate	Alluvial, Loamy	180–250 (med)	15–25 (med)	200–400 (med)	Zn deficiency common	650–750	
500–700	Alluvial, Loamy	170–240 (med)	15–25 (med)	200–400 (med)	Zn deficiency common	600–700	
Karnal	Alluvial, Loamy	180–250 (med)	15–25 (med)	200–450 (med-high)	Zn deficiency common	650–750	
Panipat	Alluvial, Loamy	170–240 (med)	10–20 (low-med)	200–400 (med)	Zn deficiency common	600–700	
Sonipat	Alluvial, Loamy	170–240 (med)	10–20 (low-med)	200–400 (med)	Zn deficiency common	600–700	
Rohtak	Alluvial, Loamy	170–230 (med)	10–20 (low-med)	200–350 (med)	Zn deficiency, some B deficiency	500–600	
Jhajjar	Alluvial, Loamy	170–230 (med)	10–20 (low-med)	200–350 (med)	Zn deficiency common	500–600	
Faridabad	Alluvial, Light textured (loamy-sandy)	150–230 (low-med)	10–20 (low-med)	200–350 (med)	Zn deficiency common	500–600	
Palwal	Alluvial, Light textured (loamy-sandy)	150–230 (low-med)	10–20 (low-med)	200–350 (med)	Zn deficiency common	500–600	
Gurugram	Alluvial, Light textured (loamy-sandy), Aridic spots	150–230 (low-med)	10–20 (low-med)	200–350 (med)	Zn deficiency, occasional Fe issues	450–550	
Nuh (Mewat)	Sandy loam, Aridic conditions	150–220 (low-med)	10–20 (low-med)	150–300 (med)	Zn deficiency, B deficiency	400–500	
Rewari	Sandy loam, Aridic conditions	150–220 (low-med)	10–20 (low-med)	150–300 (med)	Zn deficiency, B deficiency	400–500	
Mahendragarh	Sandy loam, Aridic conditions	150–220 (low-med)	10–20 (low-med)	150–300 (med)	Zn deficiency, B deficiency	350–450	
Bhiwani	Sandy loam to sandy, Aridic conditions	120–200 (low-med)	5–15 (low-med)	150–300 (med)	Zn deficiency common	300–450	
Jind	Alluvial, Loamy	170–230 (med)	10–20 (low-med)	200–350 (med)	Zn deficiency common	500–600	
Hisar	Alluvial to slightly sandy loam in some areas	150–230 (low-med)	10–20 (low-med)	200–300 (med)	Zn deficiency common	300–500	1. Tamil Nadu Agricultural University (TNAU) Soil Reports 2. Soil Health Card Scheme, GoI 3. Ghosh et al. (2015), <i>Advances in Agronomy</i>
Fatehabad	Alluvial, Light textured	150–230 (low-med)	10–20 (low-med)	200–300 (med)	Zn deficiency common	300–500	
Sirsa	Sandy loam, Aridic conditions	150–220 (low-med)	10–20 (low-med)	200–300 (med)	Zn deficiency common	200–300	
Charkhi Dadri	Sandy loam to sandy, Aridic conditions	120–200 (low-med)	5–15 (low-med)	150–300 (med)	Zn deficiency common	300–400	
Ariyalur	Red loamy, Lateritic	150–220 (med)	10–15 (low-med)	200–300 (med)	Zn, B deficiencies	800–900	
Chengalpattu	Coastal alluvial, Red sandy	180–250 (med)	10–20 (med)	200–350 (med)	Zn deficiency common	1000–1200	
Chennai	Coastal alluvial, Sandy loam	180–250 (med)	10–20 (med)	200–350 (med)	Zn deficiency common	1200–1300	
Coimbatore	Red soils, Black soils	150–230 (med)	10–18 (med)	200–350 (med)	Zn, Fe deficiencies in pockets	600–700	
Cuddalore	Coastal alluvial, Deltaic soils	180–250 (med)	10–20 (med)	200–400 (med-high)	Zn deficiency common	1000–1200	
Dharmapuri	Red loamy, Lateritic soils	150–200 (med)	5–15 (low-med)	150–300 (med)	Zn, B deficiencies	700–900	
Dindigul	Red soils, Black soils	150–220 (med)	10–15 (low-med)	200–350 (med)	Zn, B deficiencies	700–900	
Erode	Red soils, Black soils	150–230 (med)	10–18 (med)	200–350 (med)	Zn deficiency common	600–700	
Kailakurichi	Red loamy, Lateritic soils	150–220 (med)	10–15 (low-med)	200–300 (med)	Zn, B deficiencies	900–1000	
Kanchipuram	Coastal alluvial, Red sandy	180–250 (med)	10–20 (med)	200–350 (med)	Zn deficiency common	1000–1200	
Kanniyakumari	Lateritic, Red loam, Coastal	180–250 (med)	10–20 (med)	200–350 (med)	Zn deficiency, Fe sometimes	1400–1800	
Karur	Red soils, Black soils along river belts	150–220 (med)	10–15 (low-med)	200–350 (med)	Zn deficiency common	600–800	
Krishnagiri	Red loamy, Lateritic soils	150–220 (med)	5–15 (low-med)	150–300 (med)	Zn, B deficiencies	700–900	
Madurai	Red soils, Black soils	150–220 (med)	10–15 (low-med)	200–350 (med)	Zn deficiency common	700–800	
Mayiladuthurai	Deltaic alluvial (Cauvery delta)	180–250 (med)	10–20 (med)	200–400 (med-high)	Zn deficiency common	1100–1300	
Nagapattinam	Deltaic alluvial (Cauvery delta), Coastal	180–250 (med)	10–20 (med)	200–400 (med-high)	Zn deficiency common	1100–1300	
Namakkal	Red soils, Black soils	150–220 (med)	10–15 (low-med)	200–350 (med)	Zn deficiency common	700–800	
Nilgiris	Mountainous, acidic, well-drained	150–220 (med)	10–15 (low-med)	150–300 (med)	Zn, B, Fe deficiencies in pockets	1500–2000	
Perambalur	Red loamy, Lateritic	150–220 (med)	10–15 (low-med)	200–300 (med)	Zn, B deficiencies	800–900	
Pudukkottai	Red loamy, Black soils in parts	150–220 (med)	5–15 (low-med)	200–300 (med)	Zn deficiency common	800–1000	
Ramanathapuram	Coastal sandy, Saline patches	100–200 (low-med)	5–15 (low-med)	150–300 (med)	Zn, B deficiencies	700–900	
Ranipet	Red loamy, Lateritic soils	150–220 (med)	10–15 (low-med)	200–300 (med)	Zn deficiency common	900–1000	
Salem	Red soils, Black soils	150–230 (med)	10–18 (med)	200–350 (med)	Zn deficiency common	700–900	
Sivagangai	Red soils, Black soils	150–220 (med)	10–15 (low-med)	200–350 (med)	Zn, B deficiencies	700–800	
Tenkasi	Red loamy, Lateritic soils, some black patches	150–220 (med)	10–15 (low-med)	200–350 (med)	Zn deficiency common	800–1000	

Thanjavur	Deltaic alluvial (Cauvery delta)	180-250 (med)	10-20 (med)	200-400 (med-high)	Zn deficiency common	1100-1300
Theni	Red soils, Black soils, Hill slopes	150-220 (med)	10-15 (low-med)	200-350 (med)	Zn, B deficiencies	700-900
Thoothukudi	Coastal alluvial, Sandy loam, Saline patches	100-200 (low-med)	5-15 (low-med)	150-300 (med)	Zn deficiency common	600-800
Tiruchirappalli	Alluvial in Cauvery basin, Red soils elsewhere	150-220 (med)	10-15 (low-med)	200-350 (med)	Zn deficiency common	800-1000
Tirunelveli	Red soils, Coastal alluvial in parts	150-220 (med)	10-15 (low-med)	200-350 (med)	Zn deficiency common	700-900
Tirupathur	Red loamy, Lateritic soils	150-220 (med)	10-15 (low-med)	200-300 (med)	Zn deficiency common	900-1000
Tiruppur	Red soils, Black soils	150-230 (med)	10-18 (med)	200-350 (med)	Zn deficiency common	600-700
Tiruvallur	Coastal alluvial, Red sandy	180-250 (med)	10-20 (med)	200-350 (med)	Zn deficiency common	1000-1200
Tiruvannamalai	Red loamy, Lateritic soils	150-220 (med)	10-15 (low-med)	200-300 (med)	Zn, B deficiencies	900-1000
Tiruvarur	Deltaic alluvial (Cauvery delta)	180-250 (med)	10-20 (med)	200-400 (med-high)	Zn deficiency common	1100-1300
Vellore	Red loamy, Lateritic soils	150-220 (med)	10-15 (low-med)	200-300 (med)	Zn deficiency common	900-1000
Viluppuram	Red loamy, Lateritic soils	150-220 (med)	10-15 (low-med)	200-300 (med)	Zn deficiency common	900-1000
Virudhunagar	Red soils, Black soils	150-220 (med)	10-15 (low-med)	200-350 (med)	Zn deficiency common	600-800