**Major NRM issues :**

**AESR 3:** The region is hot arid ESR with deep loamy and clayey mixed Red and Black soils, low to medium AWC and LGP 60-90 days in a year.

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| **Districts** | ***Land degradation*** | ***Soil health & fertility*** | ***Water related constraints*** | ***Environmental constraints*** |
| Bagalkot | Exclusively water erosion | Soil deficient in P, Zn, Fe & B | Rainfed (~50%) , GW Saline, Contaminated with F, NO3 & Fe | Highly prone to drought & flood |
| Ballari | Exclusively water erosion | Soil deficient in N | Rainfed (~50%) , GW Saline, Contaminated with F, NO3 & Fe | - |
| Chitradurga | Exclusively water erosion & Exclusively sodic soils | Low in OC & Soil deficient in N | GW Saline, Contaminated with F, NO3 & Fe | Highly prone to flood |
| Koppal | Exclusively water erosion | Low in OC& Soil deficient in N | Mostly Rainfed , GW Saline, Contaminated with F, NO3 & Fe | Highly prone to drought & flood |

**AESR 6.1:** The region is hot dry semi-arid ESR with shallow and medium loamy Black soils (deep clayey Black soils as inclusion), medium to high AWC and LGP 90-120 days in a year.

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| **Districts** | ***Land degradation*** | ***Soil health & fertility*** | ***Water related constraints*** | ***Environmental constraints*** |
| Raichur | Exclusively water erosion | Soil deficient in N, Fe, P &K | Rainfed (~50%) , GW Saline, Contaminated with F, As, NO3 & Fe | Moderately prone to drought & flood |
| Vijayapura | Exclusively water erosion | **-** | - | - |

**AESR 6.2:** The region is hot moist semi-arid ESR with shallow and medium loamy to clayey Black soils (medium land deep clayey Black soils as inclusion), medium to high AWC and LGP 120-150 days in a year.

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| **Districts** | ***Land degradation*** | ***Soil health & fertility*** | ***Water related constraints*** | ***Environmental constraints*** |
| Bidar | Exclusively water erosion | Soil deficient in P, Fe, B & S | Mostly Rainfed , GW Contaminated with F, NO3 & Fe | Highly prone to drought |
| Kalaburagi | Exclusively water erosion | **-** | - | **-** |
| Yadgir | Exclusively water erosion | Low in OC & Soil deficient in N & Fe | Rainfed (~50%) , GW Saline, Contaminated with F, NO3 & As | Highly prone to drought |

**AESR 6.4:** The region is hot dry subhumid ESR.

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| **Districts** | ***Land degradation*** | ***Soil health & fertility*** | ***Water related constraints*** | ***Environmental constraints*** |
| Belagavi | Exclusively water erosion | Soil deficient in P & K | Rainfed (~50%) | Moderately prone to Drought |
| Davangere | Exclusively water erosion | Soil deficient in N, Zn & B | Rainfed (~50%) , GW Saline, Contaminated with F, NO3 & Fe | Highly prone to Drought |
| Dharwad | Exclusively water erosion | Low in OC, Soil deficient in N, P, Zn, Fe & B | Mostly Rainfed , GW Saline, Contaminated with F & NO3 | Highly prone to flood to Drought |
| Gadag | Exclusively water erosion | Low in OC, Soil deficient in N, P, Zn, Fe & S | Mostly Rainfed , GW Saline, Contaminated with F & NO3 | Highly prone to flood to Drought |
| Haveri | Exclusively water erosion | Low in OC, Soil deficient in N, Zn, B & S | Mostly Rainfed , GW Saline, Contaminated with F, NO3 & Fe | Moderately prone to Drought |
| Uttar Kannada | Exclusively water erosion | Soil deficient in N, P, B & K | GW Saline, Contaminated with F, NO3 & Fe | **-** |

**AESR 8.2:** The region is hot moist semi-arid ESR with medium to deep Red loamy soils, low AWC and LGP 120-150 days in a year.

**Major NRM issues :**

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| **Districts** | ***Land degradation*** | ***Soil health & fertility*** | ***Water related constraints*** | ***Environmental constraints*** |
| Bengaluru Rural | Exclusively water erosion | Low in OC, Soil deficient in N, B & S | GW Saline, Contaminated with F, NO3 & Fe | Highly prone to Drought |
| Bengaluru Urban | Exclusively water erosion | Low in OC , Soil deficient in N, Zn, Fe, B & S | GW Saline, Contaminated with F | **-** |
| Chamarajanagar | Exclusively water erosion | Low in OC, Soil deficient in Zn & Fe | Mostly Rainfed , GW Saline, Contaminated with F & NO3 | Highly prone to Drought |
| Chikballapur | Exclusively water erosion & Water erosion under open forest | Low in OC , Soil deficient in N, Zn & Fe | Mostly Rainfed , GW Saline, Contaminated with F | Moderately prone to Drought |
| Chikkamagaluru | Exclusively water erosion | Low in OC, Soil deficient in N, Zn & B | Mostly Rainfed , GW Saline, Contaminated with F , NO3 & Fe | - |
| Chitradurga | Exclusively water erosion & Exclusively sodic soils | Low in OC , Soil deficient in N & Fe | Mostly Rainfed , GW Saline, Contaminated with F, NO3 & Fe | Highly prone to Drought |
| Hassan | Exclusively water erosion | Low in OC, Soil deficient in Zn & Fe | Mostly Rainfed , GW Saline, Contaminated with F, NO3 & Fe | Highly prone to Drought |
| Kolar | Exclusively water erosion | Low in OC, Soil deficient in N | Mostly Rainfed , GW Saline, Contaminated with F, NO3 & Fe | **-** |
| Mandhya | Exclusively water erosion | Low in OC , Soil deficient in N & B | GW Saline, Contaminated with F & NO3 | Moderately prone to Drought |
| Mysuru | Exclusively water erosion | Soil deficient in N | Mostly Rainfed , GW Saline, Contaminated with F, NO3 & Fe | Highly prone to Drought |
| Ramnagar | Exclusively water erosion | Low in OC, Soil deficient in N, K, Zn, B & S | Mostly Rainfed , GW Saline, Contaminated with F & NO3 | Highly prone to Drought |

**AESR 19.2:**  The region is hot moist subhumid to humid transitional ESR with deep, loamy to clayey Red and Lateritic soils, low to medium AWC and LGP 210-270 days in a year.

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| **Districts** | ***Land degradation*** | ***Soil health & fertility*** | ***Water related constraints*** | ***Environmental constraints*** |
| Chikkamagaluru | Exclusively water erosion | Low in OC, Soil deficient in N, Zn & B | Mostly Rainfed , GW Saline, Contaminated with F, NO3 & Fe | **-** |
| Dakshin Kannada | Exclusively water erosion | Soil deficient in N, P, Zn &K | Rainfed (~50%) GW Saline, Contaminated with F& Fe | Moderately prone to Flood, Drought & Cyclone |
| Kodagu | Exclusively water erosion | Soil deficient in P | Mostly Rainfed , GW Saline, Contaminated with F, NO3 & Fe | **-** |
| Shivamogga | Exclusively water erosion | Soil deficient in N & K | GW Saline, Contaminated with F, NO3 & Fe | **-** |
| Udupi | Exclusively water erosion | Soil deficient in N, K, B & S | Mostly Rainfed , GW Saline, Contaminated with F, NO3 & Fe | **-** |
| Uttar Kannada | Exclusively water erosion | Soil deficient in N, P, B & K | Mostly Rainfed , GW Saline, Contaminated with F, NO3 & Fe | **-** |

**AESR 19.3:** The region is hot humid to per humid transitional ESR with deep, clayey to loamy acidic coastal alluvium-derived soils, low AWC and LGP 240-270 days in a year.

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| **Districts** | ***Land degradation*** | ***Soil health & fertility*** | ***Water related constraints*** | ***Environmental constraints*** |
| Dakshin Kannada | Exclusively water erosion | Soil deficient in N,P, K & Zn | Rainfed (~50%) , GW Saline, Contaminated with F& Fe | Moderately prone to drought , flood & cyclone |
| Udupi | Exclusively water erosion | Soil deficient in N, K, B & S | GW Saline, Contaminated with F, NO3 & Fe | **-** |
| Uttar Kannada | Exclusively water erosion | Soil deficient in N, P, B & K | GW Saline, Contaminated with F, NO3 & Fe | **-** |