**Major NRM issues :**

**AESR 9.1:** The region is hot semi-arid ESR with deep loamy alluvium-derived soils (occasional saline and sodic phases), medium AWC and LGP 90-120 days in a year.

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| **Districts** | **Land degradation** | **Soil health & fertility** | **Water related constraints** | **Environmental constraints** |
| Haridwar | Exclusively water erosion | Soil deficient in N & B | GW Contaminated with NO3 & Fe | Deforestation & biodiversity loss |

**AESR 9.2:** The region hot dry subhumid ESR with deep loamy alluvium-derived soils, medium to high AWC and LGP 150-180 days in a year.

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| **Districts** | **Land degradation** | **Soil health & fertility** | **Water related constraints** | **Environmental constraints** |
| Udham Singh Nagar | Exclusively water erosion | Low in OC , Soil deficient in N & B | GW Contaminated with NO3 & Fe | Deforestation & biodiversity loss |

**AESR 14.2:** The region is warm moist to dry subhumid transitional ESR with medium to deep loamy to clayey Brown Forest and Podzolic soils, medium AWC and LGP 150-210 days in a year.

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| **Districts** | **Land degradation** | **Soil health & fertility** | **Water related constraints** | **Environmental constraints** |
| Almora | **-** | Soil deficient in N & P | GW Contaminated with NO3 | Deforestation & biodiversity loss |
| Bageshwar | **-** | **-** | - | Deforestation & biodiversity loss |
| Chamoli | Exclusively water erosion | Soil deficient in N & B | - | Deforestation & biodiversity loss |
| Champawat | **-** | Soil deficient in N & S | - | Deforestation & biodiversity loss |
| Dehradun | Exclusively water erosion | Soil deficient in B | GW Contaminated with NO3 & Fe | Deforestation & biodiversity loss |
| Pithoragarh | **-** | Soil deficient in N & B | - | Deforestation & biodiversity loss |
| Rudraprayag | **-** | Soil deficient in N & Mn | - | Deforestation & biodiversity loss |
| Tehri Garwal | Exclusively water erosion & Soil Acidity | Soil deficient in N , B & S | - | Deforestation & biodiversity loss |
| Uttarkashi | Exclusively water erosion & Soil Acidity | Soil deficient in N & S | - | Deforestation & biodiversity loss |

**AESR 14.4:** The region is humid to perhumid transitional ESR with shallow to medium deep loamy Red and Yellow soils, low AWC and LGP 270-300+ days in a year.

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| **Districts** | **Land degradation** | **Soil health & fertility** | **Water related constraints** | **Environmental constraints** |
| Dehradun | Exclusively water erosion | **-** | GW Contaminated with NO3 & Fe | Deforestation & biodiversity loss |
| Uttarkashi | Exclusively water erosion & Soil Acidity | Soil deficient in N | GW Contaminated with Fe | Deforestation & biodiversity loss |

**AESR 14.5:** The region is warm moist subhumid ESR with medium to deep, loamy arai soils, medium AWC and LGP 270-300 days in a year.

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| **Districts** | **Land degradation** | **Soil health & fertility** | **Water related constraints** | **Environmental constraints** |
| Almora | **-** | Soil deficient in N & P | - | Deforestation & biodiversity loss |
| Nanital | Exclusively water erosion | Soil deficient in N & P | - | Deforestation & biodiversity loss |
| Purbi Garhwal | Exclusively water erosion | Soil deficient in N | - | Deforestation & biodiversity loss |