**Major NRM issues :**

**AESR 9.2 :** The region is 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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| **Districs** | ***Land degradation*** | ***Soil health & fertility*** | ***Water related constraints*** | ***Environmental constraints*** |
| Arwal | Water Erosion | Soil deficient in Zn, Fe, Cu, Mn, B & S | - | **-** |
| Aurangabad | Water Erosion | Soil deficient in Zn | GW Contaminated with F, NO3 & Fe | Highly prone to flood & drought |
| Bhabua | Water erosion under open forest | **-** | GW Contaminated with F & NO3 | **-** |
| Bhojpur | Sodic Soils&  Water Erosion | Soil deficient in N, Zn, Fe, Cu, Mn, B & S | GW Contaminated with NO3, As & Fe | **-** |
| Buxar | Water Erosion | Soil deficient in P | GW Contaminated with As & Fe | **-** |
| Gaya | Water Erosion | **-** | GW Contaminated with F | **-** |
| Jahanabad | - | Soil deficient in B & S | GW Contaminated with F | **-** |
| Nalanda | Water Erosion | Soil deficient in Zn, Fe, Cu, Mn, B & S | GW Contaminated with F | **-** |
| Nawada | Water Erosion | Soil deficient in B | GW Contaminated with F & Fe | **-** |
| Patna | Waterlogged | Soil deficient in Zn | GW Contaminated with NO3  & As | Highly prone to flood & drought |
| Rohtas | Water erosion under open forest | **-** | GW Contaminated with F, NO3 & Fe | Highly prone to drought & cyclone |
| Sheikhpura | - | Soil deficient in Zn, B & S | GW Contaminated with F | **-** |

**AESR 13.1 :** The region is hot dry to moist subhumid transitional ESR with deep, loamy alluvium-derived soils, low to medium AWC and LGP 180-210 days in a year.

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| **Districs** | ***Land degradation*** | ***Soil health & fertility*** | ***Water related constraints*** | ***Environmental constraints*** |
| Arariya | **-** | Soil deficient in B | - | Koshi river flood |
| Banka | Water erosion & Waterlogged | Low in OC & Soil is deficient in N, Zn & S | GW Contaminated with F & NO3 | Highly prone to flood & cyclone |
| Begusarai | Water erosion & Waterlogged | Soil is deficient in N | GW Contaminated with As & Fe | Moderately prone to flood, drought & cyclone |
| Bhagalpur | Water erosion | Soil deficient in Zn, Fe, Cu, Mn, B & S | GW Contaminated with F, NO3 & As | Highly prone to flood, drought & cyclone |
| Drabhanga | Water erosion | Soil is deficient in N | GW Contaminated with NO3 & As | - |
| Gopalganj | Water erosion | Low in OC & Soil is deficient in N | Rainfed (~ 50%)GW Contaminated with Fe | Highly prone to flood, drought & cyclone |
| Jamui | Water erosion | **-** | Mostly Rainfed , GW Contaminated with F | - |
| Katihar | Water erosion | Soil is deficient in N | GW Contaminated with As & Fe | Koshi river flood |
| Khagaria | - | **-** | GW Contaminated with As & Fe | Highly prone to flood |
| Kishanganj | Water erosion | Low in OC & Soil is deficient in N | Mostly Rainfed , GW Contaminated with As & Fe | Highly prone to flood |
| Lakhisarai | - | Soil is deficient in K | GW Contaminated with F, As & Fe | - |
| Madhepura | - | Low in OC, Soil is deficient in N, P & K | GW Contaminated with As & Fe | Moderately prone to flood & drought |
| Madubani | - | Soil is deficient in N | **-** | - |
| Munger | - | **-** | GW Contaminated with F, As & Fe | Moderately prone to flood & drought |
| Muzaffarpur | Water erosion | Soil is deficient in N | GW Contaminated with As & Fe | Moderately prone to flood & drought |
| Pachim Champaran | Water erosion | Low in OC, Soil is deficient in N & K | GW Contaminated with As & Fe | - |
| Purnia | Water erosion | Soil is deficient in N | GW Contaminated with As & Fe | Highly prone to flood |
| Saharsa | - | - | GW Contaminated with As | Highly prone to flood & drought |
| Samastipur | Water erosion | Soil is deficient in N | GW Contaminated with As & Fe | Highly prone to flood & drought |
| Saran | Water erosion | Soil is deficient in N | GW Contaminated with As & Fe | Moderately prone to flood & drought |
| Sheohar | **-** | Soil is deficient in K | GW Contaminated with As | Highly prone to flood, drought & cyclone |
| Sitamarhi | **-** | Soil is deficient in K | **-** | Highly prone to flood & drought |
| Siwan | Water erosion | Soil is deficient in N | - | - |
| Supaul | **-** | Low in OC & Soil is deficient in N | GW Contaminated with NO3, As & Fe | Koshi river flood |
| Vaishali | Water erosion | Low in OC & Soil is deficient in N | GW Contaminated with Fe | Highly prone to flood & drought |