**Assam**

Assam comprises of two Agro Ecological Regions (AER) namely 15 and 17.

**Agro-Eco Region 15 :** AER 15 in Assam comprises of Baksa, Barpeta, Bongaigaon, Cachar , Chirang, Darrang, Dhubri, Dhemaji, Dibrugarh, Goalpara, Golaghat, Hailakandi, Jorhat , Kamrup Metro, Kamrup Rural, Karimganj, Kokrajhar, Karbi Analog, Lakhimpur, Morigaon , Nagaon , Nalbari , Sibsagar , Sonitpur, Tinsukia and Udalguri districts of Eastern Himalayas under Agro Ecological Sub Regions (AESR) 15.2, 15.3 and 15.4.

**Agro-Eco Region 17 :** AER 17 in Assam comprises of N.C Hills district of North-eastern Hills (Purvachal) basin under Agro Ecological Sub Region (AESR) 17.1.

**Major NRM issues :**

**AESR 15.2 :** The region warm to hot per humid ESR with deep, loamy to clayey Red Loamy soils, low to medium AWC and LGP 300 days in a year.

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| **Districts** | ***Land degradation*** | ***Soil health & fertility*** | ***Water related constraints*** | ***Environmental constraints*** |
| Baksa | Exclusively water erosion | Low in OC, Soil Deficient in B, N, P & K | GW Contaminated with As | **-** |
| Barpeta | Exclusively water erosion & Waterlogged | Low in OC, Soil Deficient in B, N, P & K | GW Contaminated with As | Highly prone to drought & flood |
| Darrang | Exclusively water erosion | Soil Deficient in B, S, P & K | GW Contaminated with As | Highly prone to drought & flood |
| Kamrup Metro | Waterlogged | Soil Deficient in B, P & K | GW Contaminated with F | - |
| Kamrup Rural | Exclusively water erosion | **-** | **-** | **-** |
| Morigaon | **-** | Soil Deficient in B, P & K | GW Contaminated with As, Fe | **-** |
| Nagaon | Exclusively water erosion & Waterlogged | Low in OC, Soil Deficient in B, N, P & K | GW Contaminated with F, As, Fe | Highly prone to flood & cyclone |
| Nalbari | Exclusively water erosion & Waterlogged | Soil Deficient in B, P & K | GW Contaminated with As, Fe | Highly prone to flood & cyclone |
| Sonitpur | Exclusively water erosion | Soil Deficient in P & K | GW Contaminated with As, Fe | Highly prone to flood |
| Udalguri | Exclusively water erosion | Soil Deficient in B, P & K | **-** | **-** |

**AESR 15.3 :** The region warm to hot perhumid ESR with deep, loamy to clayey Red Loamy soils, low to medium AWC and LGP 300 days in a year.

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| **Districts** | ***Land degradation*** | ***Soil health & fertility*** | ***Water related constraints*** | ***Environmental constraints*** |
| Bongaigaon | Exclusively water erosion | Low in OC, Soil Deficient in B, N, P & K | GW Contaminated with F, As | Highly prone to flood |
| Cachar | Waterlogged | Soil Deficient in B & P | GW Contaminated with As, Fe | Highly prone to drought & flood |
| Dhubri | Waterlogged | Soil Deficient in B & P | GW Contaminated with As, Fe | Highly prone to flood |
| Goalpara | Exclusively acid soils | Soil Deficient in B & P | GW Contaminated with F, As, Fe | Highly prone to drought & flood |
| Hailakandi | **-** | Soil Deficient in B & P | GW Contaminated with As, Fe | Highly prone to flood |
| Karimganj | **-** | Soil Deficient in B, P & K | GW Contaminated with F, As, Fe | Highly prone to flood |
| Kokrajhar | Waterlogged | Low in OC, Soil Deficient in B, N, P & K | GW Contaminated with Fe | Highly prone to flood |

**AESR 15.4 :** The region warm to hot perhumid ESR with moderately deep to deep loamy, alluvium-derived soils, medium AWC and LGP 300 days in a year.

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| **Districts** | ***Land degradation*** | ***Soil health & fertility*** | ***Water related constraints*** | ***Environmental constraints*** |
| Chirang | Exclusively water erosion | Low in OC, Soil Deficient in B, N, P & K | - | Moderately prone to flood |
| Dhemaji | Waterlogged | Low in OC, Soil Deficient in B, N, P & K | GW Contaminated with Fe, As | Highly prone to flood |
| Dibrugarh | Acid soils under water erosion & Waterlogged | Low in OC, Soil Deficient in B, N, P & K | **-** | Highly prone to flood |
| Golaghat | Acid soils under water erosion & Waterlogged | Soil Deficient in B & P | GW Contaminated with Fe, As | Highly prone to flood |
| Jorhat | Acid soils under water erosion & Waterlogged | Soil Deficient in B, P & K | GW Contaminated with F | Highly prone to flood |
| Karbi Analog | Exclusively water erosion | Low in OC, Soil Deficient in B, N, P & K | GW Contaminated with F, Fe | - |
| Lakhimpur | Exclusively water erosion | Low in OC, Soil Deficient in B, N, P & K | GW Contaminated with Fe, As | Highly prone to flood |
| Sibsagar | Exclusively acid soils&Waterlogged | Low in OC, Soil Deficient in B, N, P & K | GW Contaminated with F, Fe | - |
| Tinsukia | Acid soils under water erosion | Low in OC, Soil Deficient in N, P & K | **-** | Highly prone to flood |

**AESR 17.1 :** The region warm to hot moist humid to perhumid ESR with medium to deep loamy to clayey Red and Lateritic 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*** |
| N.C Hills | Water erosion under open forest | **-** | - | **-** |