**Tamil Nadu**

Tamil Nadu comprises of three Agro Ecological Regions (AER) 8, 18 & 19.

**Agro-Eco Region 8:** AER 8 in Tamil Nadu comprises of Ramanathapuram, Coimbatore, Dindigul, Kanyakumari, Madurai, Teni, Tirunelveli, Tiruppur, Tuticorin, Virudhunagar, Krishnagiri, Ariyalur, Cuddalore, Dharampuri, Erode, Kanchipuram, Karur, Krishnagiri , Namakkal, Perambalur , Pudukkottai, Salem, Sivaganga, Thanjavur, Tiruchirappalli, Tiruvallur, Tiruvannamalai, Vellore and Villupuram districts of Eastern Ghats under Agro Ecological Sub Regions (AESR) 8.1, 8.2 & 8.3.

**Agro-Eco Region 18:** AER18 in Tamil Nadu comprises of Chennai, Nagapattinam, Ramanathapuram, Thiruvarur, Cuddalore, Kanchipuram and Tiruvallur districts of Eastern Coastal Plain under Agro Ecological Sub Regions (AESR)18.1 &18.2 .

**Agro-Eco Region 19:** AER19 in Tamil Nadu comprises of Coimbatore, Nilgiri and Kanyakumari districts of Western Ghats & Coastal Plain under Agro Ecological Sub Regions (AESR)19.2 & 19.3.

**AESR 8.1:** The region is hot dry semi-arid ESR with moderately deep to deep, loamy to clayey, mixed Red and Black soils, medium AWC and LGP 90-120 days in a year.

**Major NRM issues :**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Districts** | ***Land degradation*** | ***Soil health & fertility*** | ***Water related constraints*** | ***Environmental constraints*** |
| Ramanathapuram | Waterlogged & Coastal Salinity | Low in OC, Soil Deficient in N | Saline, GW Contaminated with F, NO3, As& Fe |  |
| Coimbatore | Exclusively water erosion | Low in OC, Soil Deficient in N & P | Saline, GW Contaminated with F & NO3 |  |
| Dindigul | **-** | Low in OC & Soil Deficient in N | Saline, GW Contaminated with F, NO3 & heavy metals |  |
| Kanyakumari | **-** | Low in OC & Soil Deficient in N | GW Contaminated with NO3 |  |
| Madurai | **-** | Low in OC & Soil Deficient in N | GW Contaminated with NO3 |  |
| Teni | Exclusively water erosion | Low in OC, Soil Deficient in N & P | Saline, GW Contaminated with F, NO3 & heavy metals |  |
| Tirunelveli | Coastal Salinity | Low in OC & Soil Deficient in N | Saline, GW Contaminated with F, NO3 & As |  |
| Tiruppur | Exclusively water erosion | Low in OC, Soil Deficient in N & P | Saline, GW Contaminated with F & NO3 |  |
| Tuticorin | **-** | Low in OC, Soil Deficient in N & P | Saline, GW Contaminated with F, NO3 & As |  |
| Virudhunagar | **-** | Low in OC, Soil Deficient in N & P | Saline, GW Contaminated with F & NO3 |  |

**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 :**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Districts** | ***Land degradation*** | ***Soil health & fertility*** | ***Water related constraints*** | ***Environmental constraints*** |
| Krishnagiri | **-** | Low in OC, Soil Deficient in N & P | Saline & GW Contaminated with F |  |

**AESR 8.3:** The region is hot moist semi-arid ESR with deep red loamy soils, low AWC and LGP 120-150 days in a year.

**Major NRM issues :**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Districts** | ***Land degradation*** | ***Soil health & fertility*** | ***Water related constraints*** | ***Environmental constraints*** |
| Ariyalur | - | Low in OC & Soil Deficient in N | GW Contaminated with As |  |
| Cuddalore | Waterlogged & Coastal Salinity | Low in OC & Soil Deficient in N | Saline, GW Contaminated with NO3, As & heavy metals |  |
| Dharampuri | - | Low in OC, Soil Deficient in N & P | Saline, GW Contaminated with F & NO3 |  |
| Erode | - | Low in OC, Soil Deficient in N & P | Saline, GW Contaminated with F , NO3 & heavy metals |  |
| Kanchipuram | Coastal Salinity - | Low in OC & Soil Deficient in N | Saline, GW Contaminated with F , NO3 & heavy metals |  |
| Karur | - | Low in OC & Soil Deficient in N | Saline, GW Contaminated with F & NO3 |  |
| Krishnagiri | - | Low in OC, Soil Deficient in N & P | Saline & GW Contaminated with F |  |
| Namakkal | - | Low in OC, Soil Deficient in N & P | Saline, GW Contaminated with F , NO3 & Fe |  |
| Perambalur | Exclusively water erosion | Low in OC, Soil Deficient in N & P | Saline, GW Contaminated with F & NO3 |  |
| Pudukkottai | Coastal Salinity | Low in OC & Soil Deficient in N | Saline & GW Contaminated with F , NO3 |  |
| Salem | Waterlogged | Low in OC, Soil Deficient in N & P | Saline & GW Contaminated with F , NO3 |  |
| Sivaganga | - | Low in OC & Soil Deficient in N | Saline & GW Contaminated with F , NO3 |  |
| Thanjavur | Waterlogged | Low in OC & Soil Deficient in N | Saline & GW Contaminated with F , NO3 |  |
| Tiruchirappalli | - | Low in OC & Soil Deficient in N | Saline & GW Contaminated with As |  |
| Tiruvallur | - | Low in OC & Soil Deficient in N | Saline, GW Contaminated with F , NO3 , As & heavy metals |  |
| Tiruvannamalai | - | Low in OC & Soil Deficient in N | Saline, GW Contaminated with F & NO3 |  |
| Tuticorin | - | Low in OC, Soil Deficient in N & P | Saline, GW Contaminated with F , NO3 & As |  |
| Vellore | - | Low in OC, Soil Deficient in N & P | Saline , GW Contaminated with F & As |  |
| Villupuram | - | Low in OC & Soil Deficient in N | Saline, GW Contaminated with F & NO3 |  |

**AESR 18.1:** The region hot dry semi-arid ESR with deep, loamy to clayey, alkaline Coastal and deltaic alluvium-derived soils, medium AWC and LGP 90-120 days in a year.

**Major NRM issues :**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Districts** | ***Land degradation*** | ***Soil health & fertility*** | ***Water related constraints*** | ***Environmental constraints*** |
| Ramanathapuram | Waterlogged & Coastal Salinity | Low in OC, Soil Deficient in N | Saline, GW Contaminated with F , NO3 & As |  |

**AESR 18.2:** The region hot dry semi-arid ESR with deep, loamy to clayey, alkaline Coastal and deltaic alluvium-derived soils, medium AWC and LGP 90-120 days in a year.

**Major NRM issues :**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Districts** | ***Land degradation*** | ***Soil health & fertility*** | ***Water related constraints*** | ***Environmental constraints*** |
| Chennai | **-** |  | Saline & GW Contaminated with NO3 |  |
| Nagapattinam | Waterlogged |  | Saline , GW Contaminated with NO3 & As |  |
| Thiruvarur | **-** | Low in OC & Soil Deficient in N | Saline, GW Contaminated with F & As |  |

**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.

**Major NRM issues :**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Districts** | ***Land degradation*** | ***Soil health & fertility*** | ***Water related constraints*** | ***Environmental constraints*** |
| Coimbatore | Exclusively water erosion | Low in OC, Soil Deficient in N & P | Saline, GW Contaminated with F & NO3 |  |
| Nilgiri | **-** |  | - |  |
| Kanyakumari | **-** | Low in OC & Soil Deficient in N | GW Contaminated with NO3 |  |

**Telangana**

Telangana comprises of two Agro Ecological Regions (AER) 6 & 7.

**Agro-Eco Region 6:** AER 6 in Telangana comprises of Adilabad and Nizamabad districts of Deccan Plateau under Agro Ecological Sub Region (AESR) 6.2.

**Agro-Eco Region 7:** AER 7 in Telangana comprises of Hyderabad, Nalgonda, Mahabubnagar, Karimnagar, Ranga Reddy, Warangal, Medak and Khammam districts of Deccan (Telangana) Plateau and Eastern Ghats under Agro Ecological Sub Regions (AESR) 7.2.

**AESR 6.2:** The region 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.

**Major NRM issues :**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Districts** | ***Land degradation*** | ***Soil health & fertility*** | ***Water related constraints*** | ***Environmental constraints*** |
| Adilabad | **-** | Low in OC, Soil Deficient in N & P | Saline, GW Contaminated with F, NO3 & Fe |  |
| Nizamabad | **-** | Low in OC & Soil Deficient in N | Saline, GW Contaminated with F, NO3 & Fe |  |

**AESR 7.2:** The region is hot moist semi-arid ESR with deep loamy and clayey mixed Red and Black soils, medium to very high AWC and LGP 120-150 days in a year.

**Major NRM issues :**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Districts** | ***Land degradation*** | ***Soil health & fertility*** | ***Water related constraints*** | ***Environmental constraints*** |
| Hyderabad | **-** | Low in OC, Soil Deficient in N,P & K | GW Contaminated with F, NO3 & Fe |  |
| Nalgonda | **-** | Low in OC & Soil Deficient in N | Saline, GW Contaminated with F, NO3, As Fe & heavy metals |  |
| Mahabubnagar | **-** | Low in OC & Soil Deficient in N | Saline, GW Contaminated with F, NO3 & Fe |  |
| Karimnagar | **-** | Low in OC & Soil Deficient in N | Saline, GW Contaminated with F, NO3 & Fe |  |
| Ranga Reddy | **-** | Low in OC & Soil Deficient in N | GW Contaminated with F, NO3 Fe & heavy metals |  |
| Warangal | **-** | Low in OC & Soil Deficient in N | Saline, GW Contaminated with F & NO3 |  |
| Medak | **-** | Soil Deficient in N | Saline, GW Contaminated with F, NO3 & Fe |  |
| Khammam | **-** | Low in OC & Soil Deficient in N | Saline, GW Contaminated with F & NO3 |  |

**Tripura**

Tripura comprises of one Agro Ecological Region (AER) 17.

**Agro-Eco Region 17:** AER 17 in Tripura comprises of Dhalai, North Tripura, South Tripura and West Tripura districts of North-eastern Hills (Purvachal) under Agro Ecological Sub Region (AESR) 17.2.

**AESR 17.2:** The region is warm to hot perhumid ESR with medium to deep loamy Red and Yellow soils, low to medium AWC and LGP 300 days in a year.

**Major NRM issues :**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Districts** | ***Land degradation*** | ***Soil health & fertility*** | ***Water related constraints*** | ***Environmental constraints*** |
| Dhalai | Acid soils under open forest | Soil deficient in N | GW Contaminated with Fe |  |
| North Tripura | Acid soils under open forest | Soil Deficient in N & K | GW Contaminated with Fe |  |
| South Tripura | Acid soils under open forest | Soil Deficient in N & K | GW Contaminated with Fe |  |
| West Tripura | Acid soils under open forest | Soil Deficient in N & K | GW Contaminated with Fe |  |