**Major NRM issues :**

**AESR 3 :** The region 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.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Districts** | ***Land degradation*** | ***Soil health & fertility*** | ***Water related constraints*** | ***Environmental constraints*** |
| Ananthapur | Exclusively water erosion | Low in OC, Soil Deficient in N, Fe & B | Rainfed (> 40%), GW Saline, Contaminated with F & NO3 | Moderately prone to drought & Flood |

**AESR 7.1 :** The region hot dry semi-arid ESR with deep loamy to clayey mixed Red and Black soils, medium AWC and LGP 90-120 days in a year.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Districts** | ***Land degradation*** | ***Soil health & fertility*** | ***Water related constraints*** | ***Environmental constraints*** |
| Cuddapah | Exclusively water erosion | Low in OC | Rainfed (> 40%), GW Contaminated with Fe | Highly prone to Flood, Drought & Cyclone |
| Kurnool | Exclusively water erosion | Low in OC, Soil Deficient in Zn & N | Rainfed (> 40%), GW Saline , Contaminated with F, NO3, As & Fe | **-** |

**AESR 7.3 :** The region hot moist semi-arid/dry subhumid ESR with medium to deep, loamy to clayey mixed Red and Black soils, medium AWC and LGP 150-180 days in a year.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Districts** | ***Land degradation*** | ***Soil health & fertility*** | ***Water related constraints*** | ***Environmental constraints*** |
| Guntur | Exclusively water erosion, Coastal Salinity | Low in OC , Soil deficient in Zn & B | Rainfed (> 40%), GW Saline, Contaminated with F, NO3, As & Fe | Highly prone to drought, Flood & cyclone |
| Krishna | Exclusively water erosion ,Waterlogged & Coastal Salinity | Low in OC | Rainfed (> 40%), GW Saline, Contaminated with F, NO3 & Fe | Highly prone to drought, Flood & cyclone |
| Nellore | Exclusively water erosion , Waterlogged & Coastal Salinity | Low in OC, Soil deficient in Zn & Fe | Rainfed (> 40%), GW Saline, Contaminated with F, NO3, As, Fe | Highly prone to drought, Flood & cyclone |
| Prakasam | Exclusively water erosion , Waterlogged & Coastal Salinity | Low in OC , Soil deficient in Zn, Fe & B | Rainfed (> 40%), GW Saline, Contaminated with F, NO3 & Fe | **-** |
| West Godavari | Exclusively water erosion , Waterlogged & Coastal Salinity | Low in OC, Soil deficient in B &S | Rainfed (> 40%), GW Saline, Contaminated with F & NO3 | Highly prone to drought, Flood & cyclone |

**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.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Districts** | ***Land degradation*** | ***Soil health & fertility*** | ***Water related constraints*** | ***Environmental constraints*** |
| Chittoor | Exclusively water erosion , Waterlogged & Coastal Salinity | Soil Deficient in N | Rainfed (> 40%), GW Saline, Contaminated with F, NO3 & Fe | Severe Drought |

**AESR 12.1 :** The region hot moist subhumid ESR with deep loamy Red and Lateritic soils, low to medium AWC and LGP 180-210 days in a year.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Districts** | ***Land degradation*** | ***Soil health & fertility*** | ***Water related constraints*** | ***Environmental constraints*** |
| East Godavari | Exclusively water erosion , Waterlogged & Coastal Salinity | Soil Deficient in N | GW Saline, Contaminated with NO3 | **-** |

**AESR 18.3 :** The region clayey Coastal and Deltaic alluvium-derived soils, low to medium AWC and LGP 150-180 days in a year.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Districts** | ***Land degradation*** | ***Soil health & fertility*** | ***Water related constraints*** | ***Environmental constraints*** |
| Krishna | Exclusively water erosion , Waterlogged & Coastal Salinity | Low in OC & Soil Deficient in N | Rainfed (> 40%), GW Saline, Contaminated with F, NO3 & Fe | Highly prone to drought, Flood & cyclone. |
| Nellore | Exclusively water erosion , Waterlogged & Coastal Salinity | Low in OC, Soil Deficient in Zn & Fe | Rainfed (> 40%), GW Saline, Contaminated with F, NO3, As & Fe | Highly prone to drought, Flood & cyclone. |
| Prakasam | Exclusively water erosion , Waterlogged & Coastal Salinity | Low in OC, Soil Deficient in S , Zn, Fe & N | Rainfed (> 40%), GW Saline, Contaminated with F & NO3 | **-** |
| West Godavari | Exclusively water erosion , Waterlogged & Coastal Salinity | Soil Deficient in S & B | Rainfed (> 40%), GW Saline, Contaminated with F & NO3 | Highly prone to drought, Flood & cyclone. |

**AESR 18.4 :** The region hot dry subhumid ESR with deep, loamy to clayey Coastal and deltaic alluvium derived soils, medium AWC and LGP 180-210 days in a year.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Districts** | ***Land degradation*** | ***Soil health & fertility*** | ***Water related constraints*** | ***Environmental constraints*** |
| East Godavari | Exclusively water erosion , Waterlogged & Coastal Salinity | Soil Deficient in N | Rainfed (> 40%), GW Saline, Contaminated with NO3 | **-** |
| Srikakulam | Exclusively water erosion , Waterlogged & Coastal Salinity | Low in OC, Soil Deficient in Zn & B | Rainfed (> 40%), GW Saline, Contaminated with F, NO3 & Fe | Moderately prone to drought, Flood & cyclone |
| Vishakhapatnam | Exclusively water erosion , Coastal Salinity | Low in OC | Rainfed (> 40%), GW Saline, Contaminated with F & NO3 | Moderately prone to drought, Flood & cyclone |
| Vizianagaram | Exclusively water erosion | Low in OC, Soil Deficient in Zn & B | Rainfed (> 40%), GW Contaminated with F & NO3 | Highly prone to drought & cyclone |