**Puducherry**

Puducherry comprises of two Agro Ecological Regions (AER) 18 & 19 .

**Agro-Eco Region 18:** AER 18 in Puducherry comprises of Karaikal, Puducherry and Yanam districts of Eastern Coastal Plain under Agro Ecological Sub Regions (AESR) 18.2 & 18.4.

**Agro-Eco Region 19:** AER 19 in Puducherry comprises of Mahe district of Western Ghats & Coastal Plain under Agro Ecological Sub Regions (AESR) 19.3

**AESR 18.2 :** The region is hot moist semi-arid ESR with deep, clayey and cracking Coastal land Deltaic alluvium derived soils, high AWC and LGP 120-150 days in a year.

**Major NRM issues :**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Districts** | ***Land degradation*** | ***Soil health & fertility*** | ***Water related constraints*** | ***Environmental constraints*** |
| Karaikal | **-** | Soil deficient in N | Contaminated with NO3 |  |
| Puducherry | **-** | Soil deficient in N & P | - |  |

**AESR 18.4 :** The region is hot moist subhumid ESR with medium to deep loamy Red and Lateritic soils, medium AWC and LGP 180-210 days in a year.

**Major NRM issues :**

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| --- | --- | --- | --- | --- |
| **Districts** | ***Land degradation*** | ***Soil health & fertility*** | ***Water related constraints*** | ***Environmental constraints*** |
| Yanam | **-** |  |  |  |

**AESR 19.3:** The region is hot humid to per humid transitional ESR with deep, clayey to loamy acidic coastal alluvium-derived soils, low AWC and LGP 240-270 days.

**Major NRM issues :**

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| --- | --- | --- | --- | --- |
| **Districts** | ***Land degradation*** | ***Soil health & fertility*** | ***Water related constraints*** | ***Environmental constraints*** |
| Mahe | Exclusively acid soils | Soil deficient in N & P | - |  |

**Punjab**

Punjab comprises of four Agro Ecological Regions (AER) 2,4.9 & 14 .

**Agro-Eco Region 2:** AER 2 in Punjab comprises of Bathinda, Faridkot, Mansa and Muktsar districts of Western Plain under Agro Ecological Sub Region (AESR) 2.3.

**Agro-Eco Region 4:** AER 4 in Punjab comprises of Faridkot, Barnala, Firozpur, Ludhiana, Moga, Patiala, Sangrur, Tarn Taran, Amritsar and Jalandhar districts of Northern Plain and Central Highlands including Aravallis under Agro Ecological Sub Region (AESR) 4.1.

**Agro-Eco Region 9:** AER 9 in Punjab comprises of Gurdaspur, Ludhiana, Amritsar, Patiala, Hoshiarpur, Fatehgarh Sahib, Jalandhar, Kapurthala, Nawashahr, Rupnagar, SBS Nagar and SAS Nagar districts of Northern Plain under Agro Ecological Sub Region (AESR) 9.1.

**Agro-Eco Region 14:** AER 14 in Punjab comprises of Gurdaspur, Hoshiarpur and Rupnagar districts of Western Himalayas under Agro Ecological Sub Region (AESR) 14.2.

**AESR 2.3:** The region hot typic- arid ESR with deep, loamy desert soils (inclusion of saline phase), low AWC and LGP 60-90 days in a year.

**Major NRM issues :**

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| --- | --- | --- | --- | --- |
| **Districts** | ***Land degradation*** | ***Soil health & fertility*** | ***Water related constraints*** | ***Environmental constraints*** |
| Bathinda | **-** | Low in OC, Soil deficient in N & P | Saline, Contaminated with F, NO3 , Fe & heavy metals |  |
| Faridkot | Waterlogged | Low in OC & Soil deficient in P | Saline, Contaminated with F, NO3 , As & Fe |  |
| Mansa | **-** | Low in OC & Soil deficient in P | Saline, Contaminated with F, NO3 , As, Fe & heavy metals |  |
| Muktsar | Waterlogged | Low in OC, Soil deficient in N & P | Saline, Contaminated with F, NO3 , As, Fe & heavy metals |  |

**AESR 4.1:** The region 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.

**Major NRM issues :**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Districts** | ***Land degradation*** | ***Soil health & fertility*** | ***Water related constraints*** | ***Environmental constraints*** |
| Faridkot | Waterlogged | Low in OC & Soil deficient in P | Saline, Contaminated with F, NO3 , As & Fe |  |
| Barnala | **-** | Low in OC , Soil deficient in N & P | Contaminated with F, NO3 & heavy metals |  |
| Firozpur | **-** | Low in OC , Soil deficient in N & P | Saline, Contaminated with F, NO3 , Fe & heavy metals |  |
| Ludhiana | **-** | Low in OC , Soil deficient in N & P | Saline, Contaminated with F, NO3 & heavy metals |  |
| Moga | **-** | Low in OC & Soil deficient in P | Saline, Contaminated with F & NO3 |  |
| Patiala | **-** | Low in OC , Soil deficient in N & P | Saline, Contaminated with F, NO3  & heavy metals |  |
| Sangrur | **-** | Low in OC , Soil deficient in N & P | Saline, Contaminated with F, NO3, Fe, As & heavy metals |  |
| Tarn Taran | **-** | Low in OC , Soil deficient in N & P | Contaminated with F, NO3, As & heavy metals |  |
| Amritsar | Waterlogged | Low in OC , Soil deficient in N & P | Contaminated with F, NO3, As & heavy metals |  |
| Jalandhar | **-** | Low in OC & Soil deficient in N | Contaminated with F, NO3 & heavy metals |  |

**AESR 9.1:** The region hot dry/moist subhumid transitional ESR with deep, loamy to clayey alluvium-derived (inclusion of saline and sodic phases) soils, medium AWC and LGP 120-150 days in a year.

**Major NRM issues :**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Districts** | ***Land degradation*** | ***Soil health & fertility*** | ***Water related constraints*** | ***Environmental constraints*** |
| Gurdaspur | Waterlogged | Low in OC, Soil deficient in N & P | Saline, Contaminated with F, NO3 , As, Fe & heavy metals |  |
| Ludhiana | **-** | Low in OC & Soil deficient in N | Saline, Contaminated with F & NO3 |  |
| Amritsar | Waterlogged | Low in OC, Soil deficient in N & P | Contaminated with F, NO3 , As & heavy metals |  |
| Patiala | **-** | Low in OC & Soil deficient in N | Saline, Contaminated with F & NO3 |  |
| Hoshiarpur | Waterlogged | Low in OC, Soil deficient in N, P& K | Contaminated with NO3 , As & Fe |  |
| Fatehgarh Sahib | **-** | Low in OC, Soil deficient in N & P | Contaminated with F, NO3 , Fe & heavy metals |  |
| Jalandhar | **-** | Low in OC & Soil deficient in N | Contaminated with F & NO3 |  |
| Kapurthala | Waterlogged | Low in OC | - |  |
| Nawashahr | **-** | Low in OC, Soil deficient in N & P | Contaminated with As & heavy metals |  |
| Rupnagar | **-** | Low in OC, Soil deficient in N & P | Contaminated with NO3 & Fe |  |
| SBS Nagar | **-** | Low in OC | - |  |
| SAS Nagar | **-** | Low in OC | Contaminated with F, NO3 & heavy metals |  |

**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.

**Major NRM issues :**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Districts** | ***Land degradation*** | ***Soil health & fertility*** | ***Water related constraints*** | ***Environmental constraints*** |
| Gurdaspur | Waterlogged | Low in OC, Soil deficient in N & P | Saline, Contaminated with F, NO3 , As, Fe & heavy metals |  |
| Hoshiarpur | Waterlogged | Low in OC, Soil deficient in N , P & K | Contaminated with As & Fe |  |
| Rupnagar | **-** | Low in OC, Soil deficient in N | Contaminated with NO3 & Fe |  |