**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.

**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 |  |  |
| Puducherry | **-** | Soil deficient in N & P |  |  |

**Major technological Interventions:**

|  |  |
| --- | --- |
| **Districts** | **Major technological Interventions** |
| Karaikal |  |
| Puducherry |  |

**Relevant Developmental Schemes:**

|  |  |
| --- | --- |
| **Districts** | **Relevant Developmental Schemes** |
| Karaikal |  |
| Puducherry |  |

**Crop Planning/Farming System:**

|  |  |  |
| --- | --- | --- |
| **Districts** | **Existing Cropping/farming system** | **Alternate Cropping/farming system** |
| Karaikal |  |  |
| Puducherry |  |  |

**Important Links :**

*District Soil nutrient status:*

*District Contingency Plan:*

*District Irrigation Plan:*

*District ground water status:*

*District Vulnerability status:*

***Relevant Research Institutes/SAUs/KVKs/STL for technical backstopping:***

|  |  |
| --- | --- |
| **Districts** |  |
| Karaikal |  |
| Puducherry |  |

**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 :**

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

**Major technological Interventions:**

|  |  |
| --- | --- |
| **Districts** | **Major technological Interventions** |
| Yanam |  |

**Relevant Developmental Schemes:**

|  |  |
| --- | --- |
| **Districts** | **Relevant Developmental Schemes** |
| Yanam |  |

**Crop Planning/Farming System:**

|  |  |  |
| --- | --- | --- |
| **Districts** | **Existing Cropping/farming system** | **Alternate Cropping/farming system** |
| Yanam |  |  |

**Important Links :**

*District Soil nutrient status:*

*District Contingency Plan:*

*District Irrigation Plan:*

*District ground water status:*

*District Vulnerability status:*

***Relevant Research Institutes/SAUs/KVKs/STL for technical backstopping:***

|  |  |
| --- | --- |
| **Districts** |  |
| Yanam |  |

**Agro-Eco Region 19:**

AER 19 in Puducherry comprises of Mahe district of Western Ghats & Coastal Plain under Agro Ecological Sub Regions (AESR) 18.2 & 18.4.

**AESR 18.2 :** 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 in a year.

**Major NRM issues :**

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

**Major technological Interventions:**

|  |  |
| --- | --- |
| **Districts** | **Major technological Interventions** |
| Mahe |  |

**Relevant Developmental Schemes:**

|  |  |
| --- | --- |
| **Districts** | **Relevant Developmental Schemes** |
| Mahe |  |

**Crop Planning/Farming System:**

|  |  |  |
| --- | --- | --- |
| **Districts** | **Existing Cropping/farming system** | **Alternate Cropping/farming system** |
| Mahe |  |  |

**Important Links :**

*District Soil nutrient status:*

*District Contingency Plan:*

*District Irrigation Plan:*

*District ground water status:*

*District Vulnerability status:*

***Relevant Research Institutes/SAUs/KVKs/STL for technical backstopping:***

|  |  |
| --- | --- |
| **Districts** |  |
| Mahe |  |

**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.

**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 :**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Districts** | ***Land degradation*** | ***Soil health & fertility*** | ***Water related constraints*** | ***Environmental constraints*** |
| Bathinda | **-** | Low in OC, Soil deficient in N & P |  |  |
| Faridkot | Waterlogged | Low in OC & Soil deficient in P |  |  |
| Mansa | **-** | Low in OC & Soil deficient in P |  |  |
| Muktsar | Waterlogged | Low in OC, Soil deficient in N & P |  |  |

**Major technological Interventions:**

|  |  |
| --- | --- |
| **Districts** | **Major technological Interventions** |
| Bathinda |  |
| Faridkot |  |
| Mansa |  |
| Muktsar |  |

**Relevant Developmental Schemes:**

|  |  |
| --- | --- |
| **Districts** | **Relevant Developmental Schemes** |
| Bathinda |  |
| Faridkot |  |
| Mansa |  |
| Muktsar |  |

**Crop Planning/Farming System:**

|  |  |  |
| --- | --- | --- |
| **Districts** | **Existing Cropping/farming system** | **Alternate Cropping/farming system** |
| Bathinda |  |  |
| Faridkot |  |  |
| Mansa |  |  |
| Muktsar |  |  |

**Important Links :**

*District Soil nutrient status:*

*District Contingency Plan:*

*District Irrigation Plan:*

*District ground water status:*

*District Vulnerability status:*

***Relevant Research Institutes/SAUs/KVKs/STL for technical backstopping:***

|  |  |
| --- | --- |
| **Districts** |  |
| Bathinda |  |
| Faridkot |  |
| Mansa |  |
| Muktsar |  |

**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.

**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 |  |  |
| Barnala | **-** | Low in OC , Soil deficient in N & P |  |  |
| Firozpur | **-** | Low in OC , Soil deficient in N & P |  |  |
| Ludhiana | **-** | Low in OC , Soil deficient in N & P |  |  |
| Moga | **-** | Low in OC & Soil deficient in P |  |  |
| Patiala | **-** | Low in OC , Soil deficient in N & P |  |  |
| Sangrur | **-** | Low in OC , Soil deficient in N & P |  |  |
| Tarn Taran | **-** | Low in OC , Soil deficient in N & P |  |  |
| Amritsar | Waterlogged | Low in OC , Soil deficient in N & P |  |  |
| Jalandhar | **-** | Low in OC & Soil deficient in N |  |  |

**Major technological Interventions:**

|  |  |
| --- | --- |
| **Districts** | **Major technological Interventions** |
| Faridkot |  |
| Barnala |  |
| Firozpur |  |
| Ludhiana |  |
| Moga |  |
| Patiala |  |
| Sangrur |  |
| Tarn Taran |  |
| Amritsar |  |
| Jalandhar |  |

**Relevant Developmental Schemes:**

|  |  |
| --- | --- |
| **Districts** | **Relevant Developmental Schemes** |
| Faridkot |  |
| Barnala |  |
| Firozpur |  |
| Ludhiana |  |
| Moga |  |
| Patiala |  |
| Sangrur |  |
| Tarn Taran |  |
| Amritsar |  |
| Jalandhar |  |

**Crop Planning/Farming System:**

|  |  |  |
| --- | --- | --- |
| **Districts** | **Existing Cropping/farming system** | **Alternate Cropping/farming system** |
| Faridkot |  |  |
| Barnala |  |  |
| Firozpur |  |  |
| Ludhiana |  |  |
| Moga |  |  |
| Patiala |  |  |
| Sangrur |  |  |
| Tarn Taran |  |  |
| Amritsar |  |  |
| Jalandhar |  |  |

**Important Links :**

*District Soil nutrient status:*

*District Contingency Plan:*

*District Irrigation Plan:*

*District ground water status:*

*District Vulnerability status:*

***Relevant Research Institutes/SAUs/KVKs/STL for technical backstopping:***

|  |  |
| --- | --- |
| **Districts** |  |
| Faridkot |  |
| Barnala |  |
| Firozpur |  |
| Ludhiana |  |
| Moga |  |
| Patiala |  |
| Sangrur |  |
| Tarn Taran |  |
| Amritsar |  |
| Jalandhar |  |

**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.

**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 |  |  |
| Ludhiana | **-** | Low in OC & Soil deficient in N |  |  |
| Amritsar | Waterlogged | Low in OC, Soil deficient in N & P |  |  |
| Patiala | **-** | Low in OC & Soil deficient in N |  |  |
| Hoshiarpur | Waterlogged | Low in OC, Soil deficient in N, P& K |  |  |
| Fatehgarh Sahib | **-** | Low in OC, Soil deficient in N & P |  |  |
| Jalandhar | **-** | Low in OC & Soil deficient in N |  |  |
| Kapurthala | Waterlogged | Low in OC |  |  |
| Nawashahr | **-** | Low in OC, Soil deficient in N & P |  |  |
| Rupnagar | **-** | Low in OC, Soil deficient in N & P |  |  |
| SBS Nagar | **-** | Low in OC |  |  |
| SAS Nagar | **-** | Low in OC |  |  |

**Major technological Interventions:**

|  |  |
| --- | --- |
| **Districts** | **Major technological Interventions** |
| Gurdaspur |  |
| Ludhiana |  |
| Amritsar |  |
| Patiala |  |
| Hoshiarpur |  |
| Fatehgarh Sahib |  |
| Jalandhar |  |
| Kapurthala |  |
| Nawashahr |  |
| Rupnagar |  |
| SBS Nagar |  |
| SAS Nagar |  |

**Relevant Developmental Schemes:**

|  |  |
| --- | --- |
| **Districts** | **Relevant Developmental Schemes** |
| Gurdaspur |  |
| Ludhiana |  |
| Amritsar |  |
| Patiala |  |
| Hoshiarpur |  |
| Fatehgarh Sahib |  |
| Jalandhar |  |
| Kapurthala |  |
| Nawashahr |  |
| Rupnagar |  |
| SBS Nagar |  |
| SAS Nagar |  |

**Crop Planning/Farming System:**

|  |  |  |
| --- | --- | --- |
| **Districts** | **Existing Cropping/farming system** | **Alternate Cropping/farming system** |
| Gurdaspur |  |  |
| Ludhiana |  |  |
| Amritsar |  |  |
| Patiala |  |  |
| Hoshiarpur |  |  |
| Fatehgarh Sahib |  |  |
| Jalandhar |  |  |
| Kapurthala |  |  |
| Nawashahr |  |  |
| Rupnagar |  |  |
| SBS Nagar |  |  |
| SAS Nagar |  |  |

**Important Links :**

*District Soil nutrient status:*

*District Contingency Plan:*

*District Irrigation Plan:*

*District ground water status:*

*District Vulnerability status:*

***Relevant Research Institutes/SAUs/KVKs/STL for technical backstopping:***

|  |  |
| --- | --- |
| **Districts** |  |
| Gurdaspur |  |
| Ludhiana |  |
| Amritsar |  |
| Patiala |  |
| Hoshiarpur |  |
| Fatehgarh Sahib |  |
| Jalandhar |  |
| Kapurthala |  |
| Nawashahr |  |
| Rupnagar |  |
| SBS Nagar |  |
| SAS Nagar |  |

**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 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 |  |  |
| Hoshiarpur | Waterlogged | Low in OC , Soil deficient in N , P & K |  |  |
| Rupnagar | **-** | Low in OC , Soil deficient in N |  |  |

**Major technological Interventions:**

|  |  |
| --- | --- |
| **Districts** | **Major technological Interventions** |
| Gurdaspur |  |
| Hoshiarpur |  |
| Rupnagar |  |

**Relevant Developmental Schemes:**

|  |  |
| --- | --- |
| **Districts** | **Relevant Developmental Schemes** |
| Gurdaspur |  |
| Hoshiarpur |  |
| Rupnagar |  |

**Crop Planning/Farming System:**

|  |  |  |
| --- | --- | --- |
| **Districts** | **Existing Cropping/farming system** | **Alternate Cropping/farming system** |
| Gurdaspur |  |  |
| Hoshiarpur |  |  |
| Rupnagar |  |  |

**Important Links :**

*District Soil nutrient status:*

*District Contingency Plan:*

*District Irrigation Plan:*

*District ground water status:*

*District Vulnerability status:*

***Relevant Research Institutes/SAUs/KVKs/STL for technical backstopping:***

|  |  |
| --- | --- |
| **Districts** |  |
| Gurdaspur |  |
| Hoshiarpur |  |
| Rupnagar |  |