**Rajasthan**

Rajasthan comprises of two Agro Ecological Regions (AER) 2,4 & 5.

**Agro-Eco Region 2:**

AER 2 in Rajasthan comprises of Barmer,Bikaner,Ganganagar,Hanumangarh,Jaiselmer,Churu,Jalor, Jhunjhunun,Nagpur,Pali,Sikar,Sirohi and Jodhpur districts of Western Plain under Agro Ecological Sub Regions (AESR) 2.1 & 2.3.

**AESR 2.1:** The region is hyper arid ESR with shallow and deep sandy desert soils very low AWC and LGP < 60 days in a year.

**Major NRM issues :**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Districts** | ***Land degradation*** | ***Soil health & fertility*** | ***Water related constraints*** | ***Environmental constraints*** |
| Barmer | Exclusively wind erosion | Low in OC |  |  |
| Bikaner | Exclusively wind erosion | Low in OC |  |  |
| Ganganagar | **-** | Low in OC |  |  |
| Hanumangarh | **-** | Low in OC |  |  |
| Jaiselmer | Exclusively wind erosion | Low in OC |  |  |
| Jodhpur | Exclusively wind erosion | Low in OC |  |  |

**Major technological Interventions:**

|  |  |
| --- | --- |
| **Districts** | **Major technological Interventions** |
| Barmer |  |
| Bikaner |  |
| Ganganagar |  |
| Hanumangarh |  |
| Jaiselmer |  |
| Jodhpur |  |

**Relevant Developmental Schemes:**

|  |  |
| --- | --- |
| **Districts** | **Relevant Developmental Schemes** |
| Barmer |  |
| Bikaner |  |
| Ganganagar |  |
| Hanumangarh |  |
| Jaiselmer |  |
| Jodhpur |  |

**Crop Planning/Farming System:**

|  |  |  |
| --- | --- | --- |
| **Districts** | **Existing Cropping/farming system** | **Alternate Cropping/farming system** |
| Barmer |  |  |
| Bikaner |  |  |
| Ganganagar |  |  |
| Hanumangarh |  |  |
| Jaiselmer |  |  |
| Jodhpur |  |  |

**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** |  |
| Barmer |  |
| Bikaner |  |
| Ganganagar |  |
| Hanumangarh |  |
| Jaiselmer |  |
| Jodhpur |  |

**AESR 2.3:** The region is 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*** |
| Churu | Exclusively wind erosion | Low in OC & Soil deficient in P |  |  |
| Jalor | **-** | Low in OC |  |  |
| Hanumangarh | **-** | Low in OC |  |  |
| Jhunjhunun | **-** | Low in OC |  |  |
| Jodhpur | Exclusively wind erosion | Low in OC |  |  |
| Pali | **-** | Low in OC |  |  |
| Sikar | Exclusively wind erosion | Low in OC |  |  |
| Sirohi | Exclusively wind erosion | Low in OC |  |  |
| Nagpur | Exclusively wind erosion | Low in OC & Soil deficient in N |  |  |

**Major technological Interventions:**

|  |  |
| --- | --- |
| **Districts** | **Major technological Interventions** |
| Churu |  |
| Jalor |  |
| Hanumangarh |  |
| Jhunjhunun |  |
| Jodhpur |  |
| Pali |  |
| Sikar |  |
| Sirohi |  |
| Nagpur |  |

**Relevant Developmental Schemes:**

|  |  |
| --- | --- |
| **Districts** | **Relevant Developmental Schemes** |
| Churu |  |
| Jalor |  |
| Hanumangarh |  |
| Jhunjhunun |  |
| Jodhpur |  |
| Pali |  |
| Sikar |  |
| Sirohi |  |
| Nagpur |  |

**Crop Planning/Farming System:**

|  |  |  |
| --- | --- | --- |
| **Districts** | **Existing Cropping/farming system** | **Alternate Cropping/farming system** |
| Churu |  |  |
| Jalor |  |  |
| Hanumangarh |  |  |
| Jhunjhunun |  |  |
| Jodhpur |  |  |
| Pali |  |  |
| Sikar |  |  |
| Sirohi |  |  |
| Nagpur |  |  |

**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** |  |
| Churu |  |
| Jalor |  |
| Hanumangarh |  |
| Jhunjhunun |  |
| Jodhpur |  |
| Pali |  |
| Sikar |  |
| Sirohi |  |
| Nagpur |  |

**Agro-Eco Region 4:**

AER 4 in Rajasthan comprises of Alwar, Bharatpur, Dholpur,Jaipur,Ajmer,Bhilwara, Bundi, Dausa, Dungarpur, Karauli, Rajsmand, Swaimadhopur, Tonk, Udaipur and Chittaurgarh districts of Northern Plain and Central Highlands including Aravallis under Agro Ecological Sub Regions (AESR) 4.1 & 4.2.

**AESR 4.1:** The region is hyper arid ESR with shallow and deep sandy desert soils very low AWC and LGP < 60 days in a year.

**Major NRM issues :**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Districts** | ***Land degradation*** | ***Soil health & fertility*** | ***Water related constraints*** | ***Environmental constraints*** |
| Alwar | **-** | Low in OC |  |  |
| Bharatpur | Exclusively wind erosion | Low in OC |  |  |
| Dholpur | Exclusively wind erosion | Low in OC |  |  |
| Jaipur | **-** | Low in OC & Soil deficient in N |  |  |

**Major technological Interventions:**

|  |  |
| --- | --- |
| **Districts** | **Major technological Interventions** |
| Alwar |  |
| Bharatpur |  |
| Dholpur |  |
| Jaipur |  |

**Relevant Developmental Schemes:**

|  |  |
| --- | --- |
| **Districts** | **Relevant Developmental Schemes** |
| Alwar |  |
| Bharatpur |  |
| Dholpur |  |
| Jaipur |  |

**Crop Planning/Farming System:**

|  |  |  |
| --- | --- | --- |
| **Districts** | **Existing Cropping/farming system** | **Alternate Cropping/farming system** |
| Alwar |  |  |
| Bharatpur |  |  |
| Dholpur |  |  |
| Jaipur |  |  |

**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** |  |
| Alwar |  |
| Bharatpur |  |
| Dholpur |  |
| Jaipur |  |

**AESR 4.2:** The region is hyper hot dry semiarid ESR with deep loamy Gray Brown and 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*** |
| Ajmer | Ravine | Low in OC & Soil deficient in N |  |  |
| Bhilwara | Exclusively water erosion & Ravine | Low in OC |  |  |
| Bundi | Exclusively water erosion & Ravine | Low in OC |  |  |
| Dausa | **-** | Low in OC |  |  |
| Dungarpur | Exclusively water erosion & Ravine | Low in OC |  |  |
| Jaipur | Ravine | Low in OC & Soil deficient in N |  |  |
| Karauli | Exclusively water erosion & Ravine | Low in OC |  |  |
| Rajsmand | Exclusively wind erosion | Low in OC |  |  |
| Swaimadhopur | Exclusively water erosion & Ravine | Low in OC |  |  |
| Tonk | Exclusively water erosion & Ravine | Low in OC |  |  |
| Udaipur | Exclusively wind erosion | Soil deficient in N |  |  |
| Chittaurgarh | Exclusively wind erosion | Low in OC |  |  |

**Major technological Interventions:**

|  |  |
| --- | --- |
| **Districts** | **Major technological Interventions** |
| Ajmer |  |
| Bhilwara |  |
| Bundi |  |
| Dausa |  |
| Dungarpur |  |
| Jaipur |  |
| Karauli |  |
| Rajsmand |  |
| Swaimadhopur |  |
| Tonk |  |
| Udaipur |  |
| Chittaurgarh |  |

**Relevant Developmental Schemes:**

|  |  |
| --- | --- |
| **Districts** | **Relevant Developmental Schemes** |
| Ajmer |  |
| Bhilwara |  |
| Bundi |  |
| Dausa |  |
| Dungarpur |  |
| Jaipur |  |
| Karauli |  |
| Rajsmand |  |
| Swaimadhopur |  |
| Tonk |  |
| Udaipur |  |
| Chittaurgarh |  |

**Crop Planning/Farming System:**

|  |  |  |
| --- | --- | --- |
| **Districts** | **Existing Cropping/farming system** | **Alternate Cropping/farming system** |
| Ajmer |  |  |
| Bhilwara |  |  |
| Bundi |  |  |
| Dausa |  |  |
| Dungarpur |  |  |
| Jaipur |  |  |
| Karauli |  |  |
| Rajsmand |  |  |
| Swaimadhopur |  |  |
| Tonk |  |  |
| Udaipur |  |  |
| Chittaurgarh |  |  |

**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** |  |
| Ajmer |  |
| Bhilwara |  |
| Bundi |  |
| Dausa |  |
| Dungarpur |  |
| Jaipur |  |
| Karauli |  |
| Rajsmand |  |
| Swaimadhopur |  |
| Tonk |  |
| Udaipur |  |
| Chittaurgarh |  |

**Agro-Eco Region 5:**

AER 5 in Rajasthan comprises of Bundi,Banswara,Baran,Chittaurgarh, Jhalawar,Kota and Pratapgarh districts of Central (Malwa) Highlands under Agro Ecological Sub Region (AESR) 5.2.

**AESR 5.2:** The region is hot moist semi-arid ESR with medium and deep, clayey Black soils (shallow black soils as inclusions), 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*** |
| Bundi | Exclusively wind erosion | Low in OC |  |  |
| Banswara | Exclusively wind erosion | Low in OC |  |  |
| Baran | Exclusively wind erosion | **-** |  |  |
| Chittaurgarh | Exclusively wind erosion | Low in OC |  |  |
| Jhalawar | Exclusively wind erosion | Low in OC |  |  |
| Kota | Exclusively wind erosion | **-** |  |  |
| Pratapgarh | Exclusively wind erosion | Low in OC |  |  |

**Major technological Interventions:**

|  |  |
| --- | --- |
| **Districts** | **Major technological Interventions** |
| Bundi |  |
| Banswara |  |
| Baran |  |
| Chittaurgarh |  |
| Jhalawar |  |
| Kota |  |
| Pratapgarh |  |

**Relevant Developmental Schemes:**

|  |  |
| --- | --- |
| **Districts** | **Relevant Developmental Schemes** |
| Bundi |  |
| Banswara |  |
| Baran |  |
| Chittaurgarh |  |
| Jhalawar |  |
| Kota |  |
| Pratapgarh |  |

**Crop Planning/Farming System:**

|  |  |  |
| --- | --- | --- |
| **Districts** | **Existing Cropping/farming system** | **Alternate Cropping/farming system** |
| Bundi |  |  |
| Banswara |  |  |
| Baran |  |  |
| Chittaurgarh |  |  |
| Jhalawar |  |  |
| Kota |  |  |
| Pratapgarh |  |  |

**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** |  |
| Bundi |  |
| Banswara |  |
| Baran |  |
| Chittaurgarh |  |
| Jhalawar |  |
| Kota |  |
| Pratapgarh |  |