**Uttar Pradesh**

Uttar Pradesh comprises of four Agro Ecological Regions (AER) 4,9,11 & 13.

**Agro-Eco Region 4:**

AER 4 in Uttar Pradesh comprises of Agra,Aligarh,Baghpat,Bulandsahar, Firozabad,Gautambudhnagar ,Ghaziabad, JyotibaphuleNagar,Mahamayanagar,Mainpuri,Mathura,Meerut,Muzafarnagar,Kanshiramnagar,Etah,Moradabad, Allahabad,Auraiya,Badaun,Etawah,Farrukhabad,Fatehpur,Hardoi,Jalaun,Jaunpur,Kannauj,Kanpur,KanpurDehat ,Kaushambi,Pratapgarh,Santravidasnagar,Shahjahanpur,Unnao,Varanasi,Amethi,Raibeareli,Lucknow,Banda,Chitrakoot, Mahoba , Hamirpur, Jhansi and Lalitpur districts of Eastern Ghats under Agro Ecological Sub Regions (AESR) 4.1, 4.3 & 4.4.

**AESR 4.1:** The region is 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*** |
| Agra | Exclusively water erosion | Low in OC, Soil deficient in N & P |  |  |
| Aligarh | Exclusively water erosion & Waterlogged | Low in OC, Soil deficient in N & P |  |  |
| Baghpat | **-** | Low in OC, Soil deficient in N & P |  |  |
| Bulandsahar | **-** | Low in OC, Soil deficient in N & P |  |  |
| Firozabad | Exclusively water erosion | Low in OC, Soil deficient in N & P |  |  |
| Gautambudhnagar | **-** | Low in OC, Soil deficient in N & P |  |  |
| Ghaziabad | **-** | Low in OC, Soil deficient in N & P |  |  |
| Jyotibaphule Nagar | **-** | **-** |  |  |
| Mahamayanagar | Exclusively water erosion | Low in OC, Soil deficient in N & P |  |  |
| Mainpuri | Exclusively water erosion | Low in OC, Soil deficient in N & P |  |  |
| Mathura | Exclusively water erosion & Waterlogged | Low in OC, Soil deficient in N & P |  |  |
| Meerut | **-** | Low in OC, Soil deficient in N & P |  |  |
| Muzafarnagar | Exclusively water erosion | Low in OC, Soil deficient in N & P |  |  |
| Kanshiramnagar | **-** | **-** |  |  |
| Etah | Exclusively water erosion | Low in OC, Soil deficient in N & P |  |  |
| Moradabad | **-** | Low in OC, Soil deficient in N & P |  |  |

**Major technological Interventions:**

|  |  |
| --- | --- |
| **Districts** | **Major technological Interventions** |
| Agra |  |
| Aligarh |  |
| Baghpat |  |
| Bulandsahar |  |
| Firozabad |  |
| Gautambudhnagar |  |
| Ghaziabad |  |
| JyotibaphuleNagar |  |
| Mahamayanagar |  |
| Mainpuri |  |
| Mathura |  |
| Meerut |  |
| Muzafarnagar |  |
| Kanshiramnagar |  |
| Etah |  |
| Moradabad |  |

**Relevant Developmental Schemes:**

|  |  |
| --- | --- |
| **Districts** | **Relevant Developmental Schemes** |
| Agra |  |
| Aligarh |  |
| Baghpat |  |
| Bulandsahar |  |
| Firozabad |  |
| Gautambudhnagar |  |
| Ghaziabad |  |
| JyotibaphuleNagar |  |
| Mahamayanagar |  |
| Mainpuri |  |
| Mathura |  |
| Meerut |  |
| Muzafarnagar |  |
| Kanshiramnagar |  |
| Etah |  |
| Moradabad |  |

**Crop Planning/Farming System:**

|  |  |  |
| --- | --- | --- |
| **Districts** | **Existing Cropping/farming system** | **Alternate Cropping/farming system** |
| Agra |  |  |
| Aligarh |  |  |
| Baghpat |  |  |
| Bulandsahar |  |  |
| Firozabad |  |  |
| Gautambudhnagar |  |  |
| Ghaziabad |  |  |
| JyotibaphuleNagar |  |  |
| Mahamayanagar |  |  |
| Mainpuri |  |  |
| Mathura |  |  |
| Meerut |  |  |
| Muzafarnagar |  |  |
| Kanshiramnagar |  |  |
| Etah |  |  |
| Moradabad |  |  |

**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** |  |
| Agra |  |
| Aligarh |  |
| Baghpat |  |
| Bulandsahar |  |
| Firozabad |  |
| Gautambudhnagar |  |
| Ghaziabad |  |
| JyotibaphuleNagar |  |
| Mahamayanagar |  |
| Mainpuri |  |
| Mathura |  |
| Meerut |  |
| Muzafarnagar |  |
| Kanshiramnagar |  |
| Etah |  |
| Moradabad |  |

**AESR 4.3:** The region is 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*** |
| Allahabad | Exclusively water erosion & Waterlogged | Low in OC, Soil deficient in N & P |  |  |
| Auraiya | **-** | Low in OC, Soil deficient in N & P |  |  |
| Etawah | Exclusively water erosion | Low in OC, Soil deficient in N & P |  |  |
| Farrukhabad | Exclusively water erosion | Low in OC, Soil deficient in N & P |  |  |
| Fatehpur | Exclusively water erosion | Low in OC, Soil deficient in N & P |  |  |
| Hardoi | Waterlogged | Low in OC, Soil deficient in N & P |  |  |
| Jalaun | **-** | Low in OC, Soil deficient in N & P |  |  |
| Jaunpur | Exclusively water erosion & Waterlogged | Low in OC, Soil deficient in N & P |  |  |
| Kannauj | Exclusively water erosion | Low in OC, Soil deficient in N & P |  |  |
| Kanpur | **-** | Low in OC, Soil deficient in N & P |  |  |
| KanpurDehat | **-** | Low in OC, Soil deficient in N & P |  |  |
| Kaushambi | Exclusively water erosion | Low in OC, Soil deficient in N & P |  |  |
| Pratapgarh | Exclusively water erosion & Waterlogged | Low in OC, Soil deficient in N & P |  |  |
| Santravidasnagar | Exclusively water erosion | Low in OC, Soil deficient in N & P |  |  |
| Shahjahanpur | Exclusively water erosion & Waterlogged | Low in OC, Soil deficient in N , P & K |  |  |
| Unnao | **-** | Low in OC, Soil deficient in N & P |  |  |
| Varanasi | Exclusively water erosion & Waterlogged | Low in OC, Soil deficient in N & P |  |  |
| Amethi | **-** | Low in OC, Soil deficient in N & P |  |  |
| Raibeareli | Exclusively water erosion | Low in OC, Soil deficient in N & P |  |  |
| Lucknow | **-** | Low in OC, Soil deficient in N & P |  |  |
| Badaun | **-** | Low in OC, Soil deficient in N & P |  |  |

**Major technological Interventions:**

|  |  |
| --- | --- |
| **Districts** | **Major technological Interventions** |
| Allahabad |  |
| Auraiya |  |
| Etawah |  |
| Farrukhabad |  |
| Fatehpur |  |
| Hardoi |  |
| Jalaun |  |
| Jaunpur |  |
| Kannauj |  |
| Kanpur |  |
| KanpurDehat |  |
| Kaushambi |  |
| Pratapgarh |  |
| Santravidasnagar |  |
| Shahjahanpur |  |
| Unnao |  |
| Varanasi |  |
| Amethi |  |
| Raibeareli |  |
| Lucknow |  |
| Badaun |  |

**Relevant Developmental Schemes:**

|  |  |
| --- | --- |
| **Districts** | **Relevant Developmental Schemes** |
| Allahabad |  |
| Auraiya |  |
| Etawah |  |
| Farrukhabad |  |
| Fatehpur |  |
| Hardoi |  |
| Jalaun |  |
| Jaunpur |  |
| Kannauj |  |
| Kanpur |  |
| KanpurDehat |  |
| Kaushambi |  |
| Pratapgarh |  |
| Santravidasnagar |  |
| Shahjahanpur |  |
| Unnao |  |
| Varanasi |  |
| Amethi |  |
| Raibeareli |  |
| Lucknow |  |
| Badaun |  |

**Crop Planning/Farming System:**

|  |  |  |
| --- | --- | --- |
| **Districts** | **Existing Cropping/farming system** | **Alternate Cropping/farming system** |
| Allahabad |  |  |
| Auraiya |  |  |
| Etawah |  |  |
| Farrukhabad |  |  |
| Fatehpur |  |  |
| Hardoi |  |  |
| Jalaun |  |  |
| Jaunpur |  |  |
| Kannauj |  |  |
| Kanpur |  |  |
| KanpurDehat |  |  |
| Kaushambi |  |  |
| Pratapgarh |  |  |
| Santravidasnagar |  |  |
| Shahjahanpur |  |  |
| Unnao |  |  |
| Varanasi |  |  |
| Amethi |  |  |
| Raibeareli |  |  |
| Lucknow |  |  |
| Badaun |  |  |

**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** |  |
| Allahabad |  |
| Auraiya |  |
| Etawah |  |
| Farrukhabad |  |
| Fatehpur |  |
| Hardoi |  |
| Jalaun |  |
| Jaunpur |  |
| Kannauj |  |
| Kanpur |  |
| KanpurDehat |  |
| Kaushambi |  |
| Pratapgarh |  |
| Santravidasnagar |  |
| Shahjahanpur |  |
| Unnao |  |
| Varanasi |  |
| Amethi |  |
| Raibeareli |  |
| Lucknow |  |
| Badaun |  |

**AESR 4.4:** The region is hot moist semi-arid ESR with deep, loamy alluvium-derived soils (sodic phase 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*** |
| Banda | Exclusively water erosion & Waterlogged | Low in OC, Soil deficient in N & P |  |  |
| Chitrakoot | Exclusively water erosion | Low in OC, Soil deficient in N & P |  |  |
| Mahoba | Exclusively water erosion | Low in OC, Soil deficient in N & P |  |  |
| Hamirpur | **-** | Low in OC, Soil deficient in N & P |  |  |
| Jhansi | Exclusively water erosion | Low in OC, Soil deficient in N & P |  |  |
| Lalitpur | Exclusively water erosion | Low in OC, Soil deficient in N & P |  |  |

**Major technological Interventions:**

|  |  |
| --- | --- |
| **Districts** | **Major technological Interventions** |
| Banda |  |
| Chitrakoot |  |
| Mahoba |  |
| Hamirpur |  |
| Jhansi |  |
| Lalitpur |  |

**Relevant Developmental Schemes:**

|  |  |
| --- | --- |
| **Districts** | **Relevant Developmental Schemes** |
| Banda |  |
| Chitrakoot |  |
| Mahoba |  |
| Hamirpur |  |
| Jhansi |  |
| Lalitpur |  |

**Crop Planning/Farming System:**

|  |  |  |
| --- | --- | --- |
| **Districts** | **Existing Cropping/farming system** | **Alternate Cropping/farming system** |
| Banda |  |  |
| Chitrakoot |  |  |
| Mahoba |  |  |
| Hamirpur |  |  |
| Jhansi |  |  |
| Lalitpur |  |  |

**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** |  |
| Banda |  |
| Chitrakoot |  |
| Mahoba |  |
| Hamirpur |  |
| Jhansi |  |
| Lalitpur |  |

**Agro-Eco Region 9:**

AER 9 in Uttar Pradesh comprises of Jyotibaphule Nagar,Muzafarnagar,Bijnor,Moradabad,Sharanpur,Hardoi,Jaunpur, Shahjahanpur,Varanasi,Amethi,Ambedkarnagar,Azamgarh,Ballia,Barabanki,Bareilly,Chandauli,Faizabad,Gazipur,Kheri, Lucknow,Mau,Pilhibhit,Rampur,Sultanpur and Sitapur districts of Northern Plain under Agro Ecological Sub Regions (AESR) 9.1 & 9.2.

**AESR 9.1:** The region is 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*** |
| Jyotibaphule Nagar | **-** |  |  |  |
| Muzafarnagar | Exclusively water erosion | Low in OC, Soil deficient in N, P & K |  |  |
| Bijnor | Exclusively water erosion | Low in OC, Soil deficient in N & P |  |  |
| Moradabad | **-** | Low in OC, Soil deficient in N & P |  |  |
| Sharanpur | Exclusively water erosion | Low in OC, Soil deficient in N, P & K |  |  |

**Major technological Interventions:**

|  |  |
| --- | --- |
| **Districts** | **Major technological Interventions** |
| Jyotibaphule Nagar |  |
| Muzafarnagar |  |
| Bijnor |  |
| Moradabad |  |
| Sharanpur |  |

**Relevant Developmental Schemes:**

|  |  |
| --- | --- |
| **Districts** | **Relevant Developmental Schemes** |
| Jyotibaphule Nagar |  |
| Muzafarnagar |  |
| Bijnor |  |
| Moradabad |  |
| Sharanpur |  |

**Crop Planning/Farming System:**

|  |  |  |
| --- | --- | --- |
| **Districts** | **Existing Cropping/farming system** | **Alternate Cropping/farming system** |
| Jyotibaphule Nagar |  |  |
| Muzafarnagar |  |  |
| Bijnor |  |  |
| Moradabad |  |  |
| Sharanpur |  |  |

**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** |  |
| Jyotibaphule Nagar |  |
| Muzafarnagar |  |
| Bijnor |  |
| Moradabad |  |
| Sharanpur |  |

**AESR 9.2:** The region is hot dry subhumid ESR with deep loamy alluvium-derived soils, medium to high AWC and LGP 150-180 days in a year.

**Major NRM issues :**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Districts** | ***Land degradation*** | ***Soil health & fertility*** | ***Water related constraints*** | ***Environmental constraints*** |
| Hardoi | Waterlogged | Low in OC, Soil deficient in N & P |  |  |
| Jaunpur | Exclusively water erosion & Waterlogged | Low in OC, Soil deficient in N & P |  |  |
| Shahjahanpur | Exclusively water erosion & Waterlogged | Low in OC, Soil deficient in N & P |  |  |
| Varanasi | Exclusively water erosion & Waterlogged | Low in OC, Soil deficient in N & P |  |  |
| Amethi | **-** | Low in OC, Soil deficient in N & P |  |  |
| Ambedkarnagar | Exclusively water erosion & Waterlogged | Low in OC, Soil deficient in N & P |  |  |
| Azamgarh | Exclusively water erosion & Waterlogged | Low in OC, Soil deficient in N & P |  |  |
| Ballia | Exclusively water erosion & Waterlogged | Low in OC, Soil deficient in N & P |  |  |
| Barabanki | Waterlogged | Low in OC, Soil deficient in N , P & K |  |  |
| Bareilly | **-** | Low in OC, Soil deficient in N & P |  |  |
| Chandauli | Exclusively water erosion | Low in OC, Soil deficient in N & P |  |  |
| Faizabad | Exclusively water erosion | Low in OC, Soil deficient in N & P |  |  |
| Gazipur | Exclusively water erosion & Waterlogged | Low in OC, Soil deficient in N & P |  |  |
| Kheri | Exclusively water erosion | Low in OC, Soil deficient in N & P |  |  |
| Lucknow | **-** | Low in OC, Soil deficient in N & P |  |  |
| Mau | Exclusively water erosion & Waterlogged | Low in OC, Soil deficient in N & P |  |  |
| Pilhibhit | Exclusively water erosion | Low in OC, Soil deficient in N , P & K |  |  |
| Rampur | **-** | Low in OC, Soil deficient in N & P |  |  |
| Sultanpur | Exclusively water erosion & Waterlogged | Low in OC, Soil deficient in N & P |  |  |
| Sitapur | Waterlogged | Low in OC, Soil deficient in N & P |  |  |

**Major technological Interventions:**

|  |  |
| --- | --- |
| **Districts** | **Major technological Interventions** |
| Hardoi |  |
| Jaunpur |  |
| Shahjahanpur |  |
| Varanasi |  |
| Amethi |  |
| Ambedkarnagar |  |
| Azamgarh |  |
| Ballia |  |
| Barabanki |  |
| Bareilly |  |
| Chandauli |  |
| Faizabad |  |
| Gazipur |  |
| Kheri |  |
| Lucknow |  |
| Mau |  |
| Pilhibhit |  |
| Rampur |  |
| Sultanpur |  |
| Sitapur |  |

**Relevant Developmental Schemes:**

|  |  |
| --- | --- |
| **Districts** | **Relevant Developmental Schemes** |
| Hardoi |  |
| Jaunpur |  |
| Shahjahanpur |  |
| Varanasi |  |
| Amethi |  |
| Ambedkarnagar |  |
| Azamgarh |  |
| Ballia |  |
| Barabanki |  |
| Bareilly |  |
| Chandauli |  |
| Faizabad |  |
| Gazipur |  |
| Kheri |  |
| Lucknow |  |
| Mau |  |
| Pilhibhit |  |
| Rampur |  |
| Sultanpur |  |
| Sitapur |  |

**Crop Planning/Farming System:**

|  |  |  |
| --- | --- | --- |
| **Districts** | **Existing Cropping/farming system** | **Alternate Cropping/farming system** |
| Hardoi |  |  |
| Jaunpur |  |  |
| Shahjahanpur |  |  |
| Varanasi |  |  |
| Amethi |  |  |
| Ambedkarnagar |  |  |
| Azamgarh |  |  |
| Ballia |  |  |
| Barabanki |  |  |
| Bareilly |  |  |
| Chandauli |  |  |
| Faizabad |  |  |
| Gazipur |  |  |
| Kheri |  |  |
| Lucknow |  |  |
| Mau |  |  |
| Pilhibhit |  |  |
| Rampur |  |  |
| Sultanpur |  |  |
| Sitapur |  |  |

**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** |  |
| Hardoi |  |
| Jaunpur |  |
| Shahjahanpur |  |
| Varanasi |  |
| Amethi |  |
| Ambedkarnagar |  |
| Azamgarh |  |
| Ballia |  |
| Barabanki |  |
| Bareilly |  |
| Chandauli |  |
| Faizabad |  |
| Gazipur |  |
| Kheri |  |
| Lucknow |  |
| Mau |  |
| Pilhibhit |  |
| Rampur |  |
| Sultanpur |  |
| Sitapur |  |

**Agro-Eco Region 11:**

AER 11 in Uttar Pradesh comprises of Mirzapur,Sonbhadra and Varanasi districts of Eastern Plateau (Chhattisgarh) under Agro Ecological Sub Regions (AESR) 11.

**AESR 11:** The region is hot moist/dry subhumid transitional ESR with deep loamy lto clayey Red and Yellow soils, medium AWC and LGP 150-180 days in a year.

**Major NRM issues :**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Districts** | ***Land degradation*** | ***Soil health & fertility*** | ***Water related constraints*** | ***Environmental constraints*** |
| Mirzapur | Exclusively water erosion | Low in OC, Soil deficient in N & P |  |  |
| Sonbhadra | Exclusively water erosion | Low in OC, Soil deficient in N & P |  |  |
| Varanasi | Exclusively water erosion & Waterlogged | Low in OC, Soil deficient in N & P |  |  |

**Major technological Interventions:**

|  |  |
| --- | --- |
| **Districts** | **Major technological Interventions** |
| Mirzapur |  |
| Sonbhadra |  |
| Varanasi |  |

**Relevant Developmental Schemes:**

|  |  |
| --- | --- |
| **Districts** | **Relevant Developmental Schemes** |
| Mirzapur |  |
| Sonbhadra |  |
| Varanasi |  |

**Crop Planning/Farming System:**

|  |  |  |
| --- | --- | --- |
| **Districts** | **Existing Cropping/farming system** | **Alternate Cropping/farming system** |
| Mirzapur |  |  |
| Sonbhadra |  |  |
| Varanasi |  |  |

**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** |  |
| Mirzapur |  |
| Sonbhadra |  |
| Varanasi |  |

**Agro-Eco Region 13:**

AER 13 in Uttar Pradesh comprises of Bahraich,Balrampur,Basti,Deoria,Gonda,Gorakhpur,Kushinagar,Maharajganj, Santkabirnagar,Shrawasti,Siddharthnagar, Kheri and Ambedkarnagar districts of Eastern Plateau (Chhattisgarh) under Agro Ecological Sub Regions (AESR) 13.1 & 13.2.

**AESR 13.1:** The region is hot moist/dry subhumid transitional ESR with deep loamy lto clayey Red and Yellow soils, medium AWC and LGP 150-180 days in a year.

**Major NRM issues :**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Districts** | ***Land degradation*** | ***Soil health & fertility*** | ***Water related constraints*** | ***Environmental constraints*** |
| Bahraich | Exclusively water erosion & Waterlogged | Low in OC, Soil deficient in N , P & K |  |  |
| Balrampur | Waterlogged | Low in OC, Soil deficient in N & P |  |  |
| Basti | Exclusively water erosion & Waterlogged | Low in OC, Soil deficient in N & P |  |  |
| Deoria | Exclusively water erosion | Low in OC, Soil deficient in N & P |  |  |
| Gonda | Exclusively water erosion | Low in OC, Soil deficient in N , P & K |  |  |
| Gorakhpur | Exclusively water erosion | Low in OC, Soil deficient in N & P |  |  |
| Kushinagar | Exclusively water erosion | Low in OC, Soil deficient in N & P |  |  |
| Maharajganj | Exclusively water erosion | Low in OC, Soil deficient in N & P |  |  |
| Santkabirnagar | Exclusively water erosion | Low in OC & Soil deficient in N |  |  |
| Shrawasti | Exclusively water erosion | Low in OC, Soil deficient in N & P |  |  |
| Siddharthnagar | Exclusively water erosion | Low in OC, Soil deficient in N & P |  |  |
| Ambedkarnagar | Exclusively water erosion & Waterlogged |  |  |  |

**Major technological Interventions:**

|  |  |
| --- | --- |
| **Districts** | **Major technological Interventions** |
| Bahraich |  |
| Balrampur |  |
| Basti |  |
| Deoria |  |
| Gonda |  |
| Gorakhpur |  |
| Kushinagar |  |
| Maharajganj |  |
| Santkabirnagar |  |
| Shrawasti |  |
| Siddharthnagar |  |
| Ambedkarnagar |  |

**Relevant Developmental Schemes:**

|  |  |
| --- | --- |
| **Districts** | **Relevant Developmental Schemes** |
| Bahraich |  |
| Balrampur |  |
| Basti |  |
| Deoria |  |
| Gonda |  |
| Gorakhpur |  |
| Kushinagar |  |
| Maharajganj |  |
| Santkabirnagar |  |
| Shrawasti |  |
| Siddharthnagar |  |
| Ambedkarnagar |  |

**Crop Planning/Farming System:**

|  |  |  |
| --- | --- | --- |
| **Districts** | **Existing Cropping/farming system** | **Alternate Cropping/farming system** |
| Bahraich |  |  |
| Balrampur |  |  |
| Basti |  |  |
| Deoria |  |  |
| Gonda |  |  |
| Gorakhpur |  |  |
| Kushinagar |  |  |
| Maharajganj |  |  |
| Santkabirnagar |  |  |
| Shrawasti |  |  |
| Siddharthnagar |  |  |
| Ambedkarnagar |  |  |

**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** |  |
| Bahraich |  |
| Balrampur |  |
| Basti |  |
| Deoria |  |
| Gonda |  |
| Gorakhpur |  |
| Kushinagar |  |
| Maharajganj |  |
| Santkabirnagar |  |
| Shrawasti |  |
| Siddharthnagar |  |
| Ambedkarnagar |  |

**AESR 13.2:** The region is warm to hot moist subhumid ESR with deep loamy to clayey Tarai soils, high AWC and LGP 180-210 days in a year.

**Major NRM issues :**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Districts** | ***Land degradation*** | ***Soil health & fertility*** | ***Water related constraints*** | ***Environmental constraints*** |
| Bahraich | Exclusively water erosion & Waterlogged | Low in OC, Soil deficient in N ,P & K |  |  |
| Balrampur | Waterlogged | Low in OC, Soil deficient in N & P |  |  |
| Maharajganj | Exclusively water erosion | Low in OC, Soil deficient in N & P |  |  |
| Shrawasti | Exclusively water erosion | Low in OC, Soil deficient in N & P |  |  |
| Siddharthnagar | Exclusively water erosion | Low in OC, Soil deficient in N & P |  |  |
| Kheri | Exclusively water erosion | Low in OC, Soil deficient in N & P |  |  |

**Major technological Interventions:**

|  |  |
| --- | --- |
| **Districts** | **Major technological Interventions** |
| Bahraich |  |
| Balrampur |  |
| Maharajganj |  |
| Shrawasti |  |
| Siddharthnagar |  |
| Kheri |  |

**Relevant Developmental Schemes:**

|  |  |
| --- | --- |
| **Districts** | **Relevant Developmental Schemes** |
| Bahraich |  |
| Balrampur |  |
| Maharajganj |  |
| Shrawasti |  |
| Siddharthnagar |  |
| Kheri |  |

**Crop Planning/Farming System:**

|  |  |  |
| --- | --- | --- |
| **Districts** | **Existing Cropping/farming system** | **Alternate Cropping/farming system** |
| Bahraich |  |  |
| Balrampur |  |  |
| Maharajganj |  |  |
| Shrawasti |  |  |
| Siddharthnagar |  |  |
| Kheri |  |  |

**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** |  |
| Bahraich |  |
| Balrampur |  |
| Maharajganj |  |
| Shrawasti |  |
| Siddharthnagar |  |
| Kheri |  |

**Uttarakhand**

Uttarakhand comprises of two Agro Ecological Regions (AER) 9 & 14.

**Agro-Eco Region 9:**

AER 9 in Uttarakhand comprises of Haridwar and Udham Singh Nagar districts of Eastern Ghats under Agro Ecological Sub Regions (AESR) 9.1 & 9.2.

**AESR 9.1:** The region is 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*** |
| Haridwar | Exclusively water erosion | Soil deficient in N |  |  |

**Major technological Interventions:**

|  |  |
| --- | --- |
| **Districts** | **Major technological Interventions** |
| Haridwar |  |

**Relevant Developmental Schemes:**

|  |  |
| --- | --- |
| **Districts** | **Relevant Developmental Schemes** |
| Haridwar |  |

**Crop Planning/Farming System:**

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

**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** |  |
| Haridwar |  |

**AESR 9.2:** The region hot dry subhumid ESR with deep loamy alluvium-derived soils, medium to high AWC and LGP 150-180 days in a year.

**Major NRM issues :**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Districts** | ***Land degradation*** | ***Soil health & fertility*** | ***Water related constraints*** | ***Environmental constraints*** |
| Udham Singh Nagar | Exclusively water erosion & Waterlogged | Low in OC & Soil deficient in N |  |  |

**Major technological Interventions:**

|  |  |
| --- | --- |
| **Districts** | **Major technological Interventions** |
| Udham Singh Nagar |  |

**Relevant Developmental Schemes:**

|  |  |
| --- | --- |
| **Districts** | **Relevant Developmental Schemes** |
| Udham Singh Nagar |  |

**Crop Planning/Farming System:**

|  |  |  |
| --- | --- | --- |
| **Districts** | **Existing Cropping/farming system** | **Alternate Cropping/farming system** |
| Udham Singh 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** |  |
| Udham Singh Nagar |  |

**Agro-Eco Region 14:**

AER 14 in Uttarakhand comprises of Almora, Bageshwar,Chamoli,Champawat,Dehradun,Pithoragarh,

Rudraprayag,Tehri Garwal, Uttarkashi, Nanital and Purbi Garhwal districts of Western Himalayas under Agro Ecological Sub Regions (AESR) 14.2,14.4 & 14.5.

**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*** |
| Almora | **-** | Soil deficient in N & P |  |  |
| Bageshwar | **-** | **-** |  |  |
| Chamoli | **Waterlogged** | Soil deficient in N |  |  |
| Champawat | **-** | Soil deficient in N |  |  |
| Dehradun | Exclusively water erosion | **-** |  |  |
| Pithoragarh | **-** | Soil deficient in N |  |  |
| Rudraprayag | **-** | Soil deficient in N |  |  |
| Tehri Garwal | **-** | Soil deficient in N |  |  |
| Uttarkashi | **-** | Soil deficient in N |  |  |

**Major technological Interventions:**

|  |  |
| --- | --- |
| **Districts** | **Major technological Interventions** |
| Almora |  |
| Bageshwar |  |
| Chamoli |  |
| Champawat |  |
| Dehradun |  |
| Pithoragarh |  |
| Rudraprayag |  |
| Tehri Garwal |  |
| Uttarkashi |  |

**Relevant Developmental Schemes:**

|  |  |
| --- | --- |
| **Districts** | **Relevant Developmental Schemes** |
| Almora |  |
| Bageshwar |  |
| Chamoli |  |
| Champawat |  |
| Dehradun |  |
| Pithoragarh |  |
| Rudraprayag |  |
| Tehri Garwal |  |
| Uttarkashi |  |

**Crop Planning/Farming System:**

|  |  |  |
| --- | --- | --- |
| **Districts** | **Existing Cropping/farming system** | **Alternate Cropping/farming system** |
| Almora |  |  |
| Bageshwar |  |  |
| Chamoli |  |  |
| Champawat |  |  |
| Dehradun |  |  |
| Pithoragarh |  |  |
| Rudraprayag |  |  |
| Tehri Garwal |  |  |
| Uttarkashi |  |  |

**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** |  |
| Almora |  |
| Bageshwar |  |
| Chamoli |  |
| Champawat |  |
| Dehradun |  |
| Pithoragarh |  |
| Rudraprayag |  |
| Tehri Garwal |  |
| Uttarkashi |  |

**AESR 14.4:** The region is humid to perhumid transitional ESR with shallow to medium deep loamy Red and Yellow soils, low AWC and LGP 270-300+ days in a year.

**Major NRM issues :**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Districts** | ***Land degradation*** | ***Soil health & fertility*** | ***Water related constraints*** | ***Environmental constraints*** |
| Dehradun | Exclusively water erosion | **-** |  |  |
| Uttarkashi | **-** | Soil deficient in N |  |  |

**Major technological Interventions:**

|  |  |
| --- | --- |
| **Districts** | **Major technological Interventions** |
| Dehradun |  |
| Uttarkashi |  |

**Relevant Developmental Schemes:**

|  |  |
| --- | --- |
| **Districts** | **Relevant Developmental Schemes** |
| Dehradun |  |
| Uttarkashi |  |

**Crop Planning/Farming System:**

|  |  |  |
| --- | --- | --- |
| **Districts** | **Existing Cropping/farming system** | **Alternate Cropping/farming system** |
| Dehradun |  |  |
| Uttarkashi |  |  |

**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** |  |
| Dehradun |  |
| Uttarkashi |  |

**AESR 14.5:** The region is warm moist subhumid ESR with medium to deep, loamy arai soils, medium AWC and LGP 270-300 days in a year.

**Major NRM issues :**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Districts** | ***Land degradation*** | ***Soil health & fertility*** | ***Water related constraints*** | ***Environmental constraints*** |
| Almora | **-** | Soil deficient in N & P |  |  |
| Purbi Garhwal | - | Soil deficient in N |  |  |
| Nanital | Waterlogged | Soil deficient in N & P |  |  |

**Major technological Interventions:**

|  |  |
| --- | --- |
| **Districts** | **Major technological Interventions** |
| Almora |  |
| Purbi Garhwal |  |
| Nanital |  |

**Relevant Developmental Schemes:**

|  |  |
| --- | --- |
| **Districts** | **Relevant Developmental Schemes** |
| Almora |  |
| Purbi Garhwal |  |
| Nanital |  |

**Crop Planning/Farming System:**

|  |  |  |
| --- | --- | --- |
| **Districts** | **Existing Cropping/farming system** | **Alternate Cropping/farming system** |
| Almora |  |  |
| Purbi Garhwal |  |  |
| Nanital |  |  |

**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** |  |
| Almora |  |
| Purbi Garhwal |  |
| Nanital |  |