**Bihar**

Bihar comprises of two Agro Ecological Regions (AER) namely 9 and 13.

**Agro-Eco Region 13 :**

AER 13 in Bihar comprises of Arariya, Banka, Begusarai, Bhagalpur, Drabhanga, Gopalganj,Jamui, Katihar, Khagaria, KishanganJ,Lakhisarai,Madhepura,Madubani,Munger,Muzaffarpur,Pachim Champaran,Purba champaran, Purnia,Saharsa,Samastipur,Saran,Sheohar,Sitamarhi,Siwan, Supaul and Vaishali districts of Eastern Plain under Agro Ecological Sub Regions (AESR) 13.1.

**AESR 13.1 :** The region warm to hot dry to moist subhumid transitional ESR with deep, loamy alluvium-derived soils, low to medium AWC and LGP 180-210 days in a year.

**Major NRM issues :**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Districs** | ***Land degradation*** | ***Soil health & fertility*** | ***Water related constraints*** | ***Environmental constraints*** |
| Arariya | **-** |  |  |  |
| Banka | Waterlogged |  |  |  |
| Begusarai | Waterlogged |  |  |  |
| Bhagalpur | - |  |  |  |
| Drabhanga | Waterlogged |  |  |  |
| Gopalganj | Waterlogged |  |  |  |
| Jamui | - |  |  |  |
| Katihar | Waterlogged |  |  |  |
| Khagaria | Waterlogged |  |  |  |
| Kishanganj | - |  |  |  |
| Lakhisarai | - |  |  |  |
| Madhepura | Waterlogged |  |  |  |
| Madubani | Waterlogged |  |  |  |
| Munger | Waterlogged |  |  |  |
| Muzaffarpur | Waterlogged |  |  |  |
| Pachim Champaran | - |  |  |  |
| Purnia | Waterlogged |  |  |  |
| Saharsa | Waterlogged |  |  |  |
| Samastipur | Waterlogged |  |  |  |
| Saran | Waterlogged |  |  |  |
| Sheohar | **-** |  |  |  |
| Sitamarhi | **-** |  |  |  |
| Siwan | Waterlogged |  |  |  |
| Supaul | **-** |  |  |  |
| Vaishali | Waterlogged |  |  |  |

**Major technological Interventions:**

|  |  |
| --- | --- |
| **Districs** | **Major technological Interventions** |
| Arariya |  |
| Banka |  |
| Begusarai |  |
| Bhagalpur |  |
| Drabhanga |  |
| Gopalganj |  |
| Jamui |  |
| Katihar |  |
| Khagaria |  |
| Kishanganj |  |
| Lakhisarai |  |
| Madhepura |  |
| Madubani |  |
| Munger |  |
| Muzaffarpur |  |
| Pachim Champaran |  |
| Purnia |  |
| Saharsa |  |
| Samastipur |  |
| Saran |  |
| Sheohar |  |
| Sitamarhi |  |
| Siwan |  |
| Supaul |  |
| Vaishali |  |

**Relevant Developmental Schemes:**

|  |  |
| --- | --- |
| **Districs** | **Relevant Developmental Schemes** |
| Arariya |  |
| Banka |  |
| Begusarai |  |
| Bhagalpur |  |
| Drabhanga |  |
| Gopalganj |  |
| Jamui |  |
| Katihar |  |
| Khagaria |  |
| Kishanganj |  |
| Lakhisarai |  |
| Madhepura |  |
| Madubani |  |
| Munger |  |
| Muzaffarpur |  |
| Pachim Champaran |  |
| Purnia |  |
| Saharsa |  |
| Samastipur |  |
| Saran |  |
| Sheohar |  |
| Sitamarhi |  |
| Siwan |  |
| Supaul |  |
| Vaishali |  |

**Crop Planning/Farming System:**

|  |  |  |
| --- | --- | --- |
| **Districs** | **Existing Cropping/farming system** | **Alternate Cropping/farming system** |
| Arariya |  |  |
| Banka |  |  |
| Begusarai |  |  |
| Bhagalpur |  |  |
| Drabhanga |  |  |
| Gopalganj |  |  |
| Jamui |  |  |
| Katihar |  |  |
| Khagaria |  |  |
| Kishanganj |  |  |
| Lakhisarai |  |  |
| Madhepura |  |  |
| Madubani |  |  |
| Munger |  |  |
| Muzaffarpur |  |  |
| Pachim Champaran |  |  |
| Purnia |  |  |
| Saharsa |  |  |
| Samastipur |  |  |
| Saran |  |  |
| Sheohar |  |  |
| Sitamarhi |  |  |
| Siwan |  |  |
| Supaul |  |  |
| Vaishali |  |  |

**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:***

|  |  |
| --- | --- |
| **Districs** |  |
|  |  |
|  |  |

**Agro-Eco Region 9 :**

AER 9 Bihar comprises of Arwal, Aurangabad, Bhabua, Bhojpur, Buxar, Gaya, Jahanabad, Nalanda, Nawada, Patna, Rohtas and Sheikhpura districts of Northern Plain under Agro Ecological Sub Regions (AESR) 9.2.

**AESR 9.2 :** The region warm to hot moist humid to perhumid ESR with medium to deep loamy to clayey Red and Lateritic soils, medium AWC and LGP 270-300+ days in a year.

**Major NRM issues :**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Districs** | ***Land degradation*** | ***Soil health & fertility*** | ***Water related constraints*** | ***Environmental constraints*** |
| Arwal | **-** |  |  |  |
| Aurangabad | Waterlogged |  |  |  |
| Bhabua | Water erosion under open forest |  |  |  |
| Bhojpur | **-** |  |  |  |
| Buxar | Waterlogged |  |  |  |
| Gaya | **-** |  |  |  |
| Jahanabad | **-** |  |  |  |
| Nalanda | **-** |  |  |  |
| Nawada | **-** |  |  |  |
| Patna | Waterlogged |  |  |  |
| Rohtas | **-** |  |  |  |
| Sheikhpura | **-** |  |  |  |

**Major technological Interventions:**

|  |  |
| --- | --- |
| **Districs** | **Major technological Interventions** |
| Arwal |  |
| Aurangabad |  |
| Bhabua |  |
| Bhojpur |  |
| Buxar |  |
| Gaya |  |
| Jahanabad |  |
| Nalanda |  |
| Nawada |  |
| Patna |  |
| Rohtas |  |
| Sheikhpura |  |

**Relevant Developmental Schemes:**

|  |  |
| --- | --- |
| **Districs** | **Relevant Developmental Schemes** |
| Arwal |  |
| Aurangabad |  |
| Bhabua |  |
| Bhojpur |  |
| Buxar |  |
| Gaya |  |
| Jahanabad |  |
| Nalanda |  |
| Nawada |  |
| Patna |  |
| Rohtas |  |
| Sheikhpura |  |

**Crop Planning/Farming System:**

|  |  |  |
| --- | --- | --- |
| **Districs** | **Existing Cropping/farming system** | **Alternate Cropping/farming system** |
| Arwal |  |  |
| Aurangabad |  |  |
| Bhabua |  |  |
| Bhojpur |  |  |
| Buxar |  |  |
| Gaya |  |  |
| Jahanabad |  |  |
| Nalanda |  |  |
| Nawada |  |  |
| Patna |  |  |
| Rohtas |  |  |
| Sheikhpura |  |  |

**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:***

|  |  |
| --- | --- |
| **Districs** |  |
| Arwal |  |
| Aurangabad |  |
| Bhabua |  |
| Bhojpur |  |
| Buxar |  |
| Gaya |  |
| Jahanabad |  |
| Nalanda |  |
| Nawada |  |
| Patna |  |
| Rohtas |  |
| Sheikhpura |  |