

**IDEAS - Institute of Data Engineering, Analytics and Science Foundation**

ISI Kolkata | https://www.ideas-tih.org | +91 6289351800

**Crop wise Yield forecasts**

**COTTON**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| State | 2024-25 ARIMA | ARIMA RMSE | 2024-25 XGBoost | XGBoost RMSE | 2024-25 RF | RF RMSE | 2023-24 MoA&FW | 2022-23 MoA&FW |
|  | (Yield) | (RMSE) | (Yield) | (RMSE) | (Yield) | (RMSE) |  |  |
| Andhra Pradesh | 513.16 |  |  |  | 449.00 |  | 372.00 | 300.00 |
| Assam | 87.29 |  |  |  | 88.00 |  | 87.00 | 84.00 |

**RICE KHARIF**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| State | 2024-25 ARIMA | ARIMA RMSE | 2024-25 XGBoost | XGBoost RMSE | 2024-25 RF | RF RMSE | 2023-24 MoA&FW | 2022-23 MoA&FW |
|  | (Yield) | (RMSE) | (Yield) | (RMSE) | (Yield) | (RMSE) |  |  |
| West Bengal | 514.73 |  |  |  | 502.00 |  | 859.00 |  |

**RICE RABI**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| State | 2024-25 ARIMA | ARIMA RMSE | 2024-25 XGBoost | XGBoost RMSE | 2024-25 RF | RF RMSE | 2023-24 MoA&FW | 2022-23 MoA&FW |
|  | (Yield) | (RMSE) | (Yield) | (RMSE) | (Yield) | (RMSE) |  |  |
| Uttar Pradesh | 4330.00 |  |  |  | 4560.00 |  | 4366.00 |  |
| Uttarakhand | 2570.00 |  |  |  | 2620.00 |  | 2633.00 |  |

**SOYABEAN**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| State | 2024-25 ARIMA | ARIMA RMSE | 2024-25 XGBoost | XGBoost RMSE | 2024-25 RF | RF RMSE | 2023-24 MoA&FW | 2022-23 MoA&FW |
|  | (Yield) | (RMSE) | (Yield) | (RMSE) | (Yield) | (RMSE) |  |  |
| Rajasthan | 1100.00 |  |  |  | 1110.00 |  | 1023.00 |  |

**TUR**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| State | 2024-25 ARIMA | ARIMA RMSE | 2024-25 XGBoost | XGBoost RMSE | 2024-25 RF | RF RMSE | 2023-24 MoA&FW | 2022-23 MoA&FW |
|  | (Yield) | (RMSE) | (Yield) | (RMSE) | (Yield) | (RMSE) |  |  |
| Telangana | 700.00 |  |  |  | 830.00 |  | 701.00 |  |