|  | Mean model | Variance model | Skewness model | Kurtosis model |
| --- | --- | --- | --- | --- |
| (Intercept) | 2.772\*\*\* | 0.026 | 0.133 | -0.789+ |
|  | (0.167) | (0.147) | (0.266) | (0.438) |
| SowingScheduleT2 | -0.301\*\*\* | 0.059+ | -0.029 | 0.211\* |
|  | (0.038) | (0.034) | (0.061) | (0.101) |
| SowingScheduleT3 | -0.640\*\*\* | 0.013 | -0.031 | 0.061 |
|  | (0.040) | (0.035) | (0.063) | (0.104) |
| SowingScheduleT4 | -1.039\*\*\* | 0.128\*\*\* | 0.103 | 0.288\*\* |
|  | (0.041) | (0.036) | (0.066) | (0.109) |
| SowingScheduleT5 | -1.353\*\*\* | 0.189\*\*\* | 0.123+ | 0.487\*\*\* |
|  | (0.044) | (0.038) | (0.069) | (0.115) |
| VarietyClass\_LDV | 0.441\*\*\* | -0.047\* | -0.022 | -0.227\*\*\* |
|  | (0.025) | (0.022) | (0.041) | (0.067) |
| SeedRate | -0.005+ | 0.008\*\* | 0.000 | 0.018\* |
|  | (0.003) | (0.003) | (0.005) | (0.008) |
| CropEstablishmentCT-line | 0.641\*\*\* | 0.003 | -0.513+ | 0.081 |
|  | (0.174) | (0.153) | (0.277) | (0.458) |
| CropEstablishmentZT | 0.663\*\*\* | -0.125+ | -0.396\*\* | -0.060 |
|  | (0.077) | (0.068) | (0.123) | (0.203) |
| IrrigationNumber | 0.493\*\*\* | 0.047\*\* | 0.031 | 0.152\*\* |
|  | (0.018) | (0.016) | (0.029) | (0.048) |
| SoilTypeLow | 0.179\* | -0.186\* | 0.185 | -0.295 |
|  | (0.082) | (0.072) | (0.131) | (0.216) |
| SoilTypeMedium | 0.215\*\*\* | -0.022 | 0.130\* | 0.059 |
|  | (0.038) | (0.033) | (0.060) | (0.099) |
| LandTypeMedium Land | 0.048+ | -0.059\* | 0.065 | -0.163\* |
|  | (0.027) | (0.024) | (0.043) | (0.071) |
| LandTypeUpland | -0.104+ | -0.067 | 0.108 | -0.203 |
|  | (0.055) | (0.049) | (0.088) | (0.146) |
| as.factor(Year)2017-18 | -0.235\*\*\* | -0.153\*\*\* | 0.021 | -0.386\*\*\* |
|  | (0.040) | (0.035) | (0.063) | (0.105) |
| as.factor(Year)2018-19 | -0.192\*\*\* | -0.022 | 0.093 | -0.061 |
|  | (0.037) | (0.033) | (0.059) | (0.098) |
| as.factor(Year)2019-20 | -0.130\*\* | -0.051 | -0.137\* | 0.026 |
|  | (0.040) | (0.035) | (0.064) | (0.105) |
| as.factor(Year)2020-21 | -0.221\*\*\* | -0.109\*\* | 0.090 | -0.262\* |
|  | (0.040) | (0.035) | (0.064) | (0.106) |
| DistrictBegusarai | -0.014 | -0.046 | 0.013 | -0.020 |
|  | (0.055) | (0.049) | (0.088) | (0.146) |
| DistrictBuxar | 0.069 | 0.346\*\*\* | -0.124+ | 0.986\*\*\* |
|  | (0.046) | (0.040) | (0.073) | (0.120) |
| DistrictDeoria | -0.475\*\*\* | 0.018 | -0.088 | 0.014 |
|  | (0.047) | (0.042) | (0.076) | (0.125) |
| DistrictEast Champaran | 0.081+ | -0.070+ | 0.003 | -0.068 |
|  | (0.043) | (0.038) | (0.069) | (0.114) |
| DistrictKushinagar | -0.139\*\* | 0.021 | -0.092 | 0.078 |
|  | (0.050) | (0.044) | (0.080) | (0.132) |
| DistrictLakhisarai | -0.096+ | 0.022 | 0.048 | 0.076 |
|  | (0.053) | (0.047) | (0.085) | (0.140) |
| DistrictMadhepura | -0.635\*\*\* | 0.047 | -0.004 | 0.153 |
|  | (0.046) | (0.041) | (0.074) | (0.122) |
| DistrictMuzaffarpur | -0.022 | 0.215\*\*\* | -0.102 | 0.497\*\*\* |
|  | (0.051) | (0.045) | (0.081) | (0.134) |
| DistrictRohtas | 0.611\*\*\* | 0.016 | 0.002 | 0.160 |
|  | (0.061) | (0.054) | (0.097) | (0.160) |
| Num.Obs. | 3648 | 3648 | 3648 | 3648 |
| R2 | 0.661 | 0.083 | 0.018 | 0.063 |
| R2 Adj. | 0.658 | 0.077 | 0.011 | 0.056 |
| AIC | 6720.2 | 5807.5 | 10120.3 | 13781.0 |
| BIC | 6893.8 | 5981.2 | 10294.0 | 13954.6 |
| Log.Lik. | -3332.089 | -2875.757 | -5032.155 | -6862.493 |
| F | 271.065 | 12.651 | 2.613 | 9.395 |
| RMSE | 0.60 | 0.53 | 0.96 | 1.59 |
| + p < 0.1, \* p < 0.05, \*\* p < 0.01, \*\*\* p < 0.001 | | | | |