**SUPPLEMENTARY FILE**

**Appendix 1.** Regression statistics of the predictive model for stripe rust severity based on five years (2013-2017)

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| --- |
| **Regression Statistics** |
| R2 | 90.67% |
| Adj. R2 | 90.13% |
| Pred. R2 | 89.41% |
| Std. error  | 5.65 |
| Total observations | 74 |

**Appendix 2.** Analysis of variance of the regression model for stripe rust severity based on five years (2013-2017)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Source** | **DF** | **SS** | **MS** | **F-Value** | **P-Value** |
| Regression | 4 | 21753.6 | 5438.40 | 169.97 | 0.000\* |
| Residual Error | 70 | 2239.7 | 32.00 |  |  |
| Total | 74 | 23993.3 |  |  |  |

\*Significant at *P* = 0.05