Table S2: Selected state-space time series model for each stratum.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Stratum | Selected Model\* | Error | Trend | Damped | Seasonality | AIC\*\* |
| Northeast rural | ANM | Additive | None | No | Multiplicative | 656 |
| Northeast urban non-teaching | AAM | Additive | Additive | No | Multiplicative | 602 |
| Northeast urban teaching | MAM | Multiplicative | Additive | No | Multiplicative | 687 |
| Midwest/North Central rural | AAM | Additive | Additive | No | Multiplicative | 665 |
| Midwest/North Central urban non-teaching | MNM | Multiplicative | None | No | Multiplicative | 702 |
| Midwest/North Central urban teaching | MNM | Multiplicative | None | No | Multiplicative | 729 |
| South rural | MNM | Multiplicative | None | No | Multiplicative | 632 |
| South urban non-teaching | MMM | Multiplicative | Multiplicative | No | Multiplicative | 742 |
| South urban teaching | MNM | Multiplicative | None | No | Multiplicative | 732 |
| West rural | AAM | Additive | Additive | No | Multiplicative | 628 |
| West urban non-teaching | ANM | Additive | None | No | Multiplicative | 739 |
| West urban teaching | AAM | Additive | Additive | No | Multiplicative | 740 |
| \*The best model is selected from 30 different SSM model variations for each stratum. First letter of selected model represents error, second letter represents trend, third letter represents seasonality. Model parameters: error (A=additive, M=multiplicative, N=no trend), trend (A=additive, M=multiplicative, N=no trend), and seasonality (A=additive, M=multiplicative, N=no trend). \*\*AIC stands for Aikaike Information Criterion and is the metric that is utilized to compare each generated model to determine the best model. | | | | | | |