

S3 Table. Regression models results for the number of trips analysis for the USA.

pValueAC, p-value autocorrelation (AC) Breusch-Godfrey test up to 5 (pre-pandemic) or 53 weeks (pandemic); Coef, regression coefficient; Temp, temperature; AH, absolute humidity; RH, relative humidity; Yt-1, AC term 1 week; N\_Trips, number of trips. Models used for comparison in grey.

Pre-COVID-19 pandemic (January 2019-2020-March 2020)

| Virus | Model               | AIC    | R <sup>2</sup> | pValueAC | Variable1 | Coef1 | pValue1 | error1 | Variable2 | Coef2 | pValue2 | error2 | Variable3 | Coef3 | pValue3 | error3 | Variable4 | Coef4 | pValue4 | error4 | Variable5 | Coef5 | pValue5 | error5 | Variable6 | Coef6 | pValue6 | error6 |
|-------|---------------------|--------|----------------|----------|-----------|-------|---------|--------|-----------|-------|---------|--------|-----------|-------|---------|--------|-----------|-------|---------|--------|-----------|-------|---------|--------|-----------|-------|---------|--------|
| IVA   | Yt-1                | -688.0 | 0.79           | 0.0      | Intercept | -6.17 | 0.0     | 0.2    | Yt-1      | 1.02  | 0.0     | 0.12   | Precision | 6.65  | 0.0     | 0.38   |           |       |         |        |           |       |         |        |           |       |         |        |
| IVA   | Temp_Yt-1           | -727.1 | 0.89           | 0.01     | Intercept | -6.39 | 0.0     | 0.17   | Temp      | -0.77 | 0.0     | 0.19   | Yt-1      | 0.69  | 0.0     | 0.11   | Precision | 7.46  | 0.0     | 0.37   |           |       |         |        |           |       |         |        |
| IVA   | AH_Yt-1             | -722.9 | 0.88           | 0.0      | Intercept | -6.41 | 0.0     | 0.18   | AH        | -0.79 | 0.0     | 0.23   | Yt-1      | 0.73  | 0.0     | 0.11   | Precision | 7.44  | 0.0     | 0.38   |           |       |         |        |           |       |         |        |
| IVA   | NTrips_Yt-1         | -702.7 | 0.84           | 0.0      | Intercept | -6.25 | 0.0     | 0.19   | N_Trips   | -0.5  | 0.0     | 0.22   | Yt-1      | 0.72  | 0.0     | 0.17   | Precision | 6.96  | 0.0     | 0.37   |           |       |         |        |           |       |         |        |
| IVA   | AH_RH_Yt-1          | -728.6 | 0.9            | 0.0      | Intercept | -6.44 | 0.0     | 0.18   | AH        | -0.82 | 0.0     | 0.22   | RH        | 0.12  | 0.0     | 0.08   | Yt-1      | 0.72  | 0.0     | 0.1    | Precision | 7.58  | 0.0     | 0.38   |           |       |         |        |
| IVA   | Temp_RH_Yt-1        | -725.5 | 0.89           | 0.01     | Intercept | -6.38 | 0.0     | 0.17   | Temp      | -0.76 | 0.0     | 0.2    | RH        | 0.03  | 0.55    | 0.1    | Yt-1      | 0.7   | 0.0     | 0.11   | Precision | 7.46  | 0.0     | 0.37   |           |       |         |        |
| IVA   | Temp_Yt-1_NTrips    | -725.1 | 0.89           | 0.01     | Intercept | -6.39 | 0.0     | 0.17   | Temp      | -0.77 | 0.0     | 0.27   | N_Trips   | 0.0   | 0.97    | 0.23   | Yt-1      | 0.7   | 0.0     | 0.12   | Precision | 7.46  | 0.0     | 0.37   |           |       |         |        |
| IVA   | AH_Yt-1_NTrips      | -725.1 | 0.89           | 0.0      | Intercept | -6.42 | 0.0     | 0.18   | AH        | -0.69 | 0.0     | 0.25   | N_Trips   | -0.19 | 0.04    | 0.18   | Yt-1      | 0.67  | 0.0     | 0.12   | Precision | 7.51  | 0.0     | 0.38   |           |       |         |        |
| IVA   | Temp_RH_Yt-1_NTrips | -723.6 | 0.89           | 0.01     | Intercept | -6.38 | 0.0     | 0.17   | Temp      | -0.8  | 0.0     | 0.27   | RH        | 0.04  | 0.46    | 0.11   | N_Trips   | 0.06  | 0.67    | 0.27   | Yt-1      | 0.71  | 0.0     | 0.13   | Precision | 7.47  | 0.0     | 0.37   |
| IVA   | AH_RH_Yt-1_NTrips   | -726.6 | 0.9            | 0.0      | Intercept | -6.44 | 0.0     | 0.18   | AH        | -0.8  | 0.0     | 0.27   | RH        | 0.11  | 0.05    | 0.11   | N_Trips   | -0.03 | 0.78    | 0.23   | Yt-1      | 0.71  | 0.0     | 0.12   | Precision | 7.58  | 0.0     | 0.38   |
| RSV   | Yt-1                | -436.4 | 0.74           | 0.08     | Intercept | -5.78 | 0.0     | 0.16   | Yt-1      | 0.61  | 0.0     | 0.1    | Precision | 7.13  | 0.0     | 0.44   |           |       |         |        |           |       |         |        |           |       |         |        |
| RSV   | Temp_Yt-1           | -472.9 | 0.9            | 0.42     | Intercept | -5.9  | 0.0     | 0.11   | Temp      | -0.51 | 0.0     | 0.13   | Yt-1      | 0.47  | 0.0     | 0.09   | Precision | 8.12  | 0.0     | 0.43   |           |       |         |        |           |       |         |        |
| RSV   | AH_Yt-1             | -465.9 | 0.88           | 0.83     | Intercept | -5.89 | 0.0     | 0.12   | AH        | -0.49 | 0.0     | 0.16   | Yt-1      | 0.49  | 0.0     | 0.09   | Precision | 7.95  | 0.0     | 0.43   |           |       |         |        |           |       |         |        |
| RSV   | NTrips_Yt-1         | -443.6 | 0.79           | 0.03     | Intercept | -5.82 | 0.0     | 0.14   | N_Trips   | -0.31 | 0.0     | 0.19   | Yt-1      | 0.45  | 0.0     | 0.14   | Precision | 7.38  | 0.0     | 0.44   |           |       |         |        |           |       |         |        |
| RSV   | AH_RH_Yt-1          | -488.8 | 0.93           | 0.47     | Intercept | -5.95 | 0.0     | 0.1    | AH        | -0.61 | 0.0     | 0.13   | RH        | 0.23  | 0.0     | 0.08   | Yt-1      | 0.39  | 0.0     | 0.08   | Precision | 8.58  | 0.0     | 0.43   |           |       |         |        |
| RSV   | Temp_RH_Yt-1        | -478.1 | 0.91           | 0.25     | Intercept | -5.92 | 0.0     | 0.1    | Temp      | -0.51 | 0.0     | 0.12   | RH        | 0.13  | 0.0     | 0.09   | Yt-1      | 0.42  | 0.0     | 0.09   | Precision | 8.3   | 0.0     | 0.43   |           |       |         |        |
| RSV   | Temp_Yt-1_NTrips    | -474.4 | 0.9            | 0.64     | Intercept | -5.91 | 0.0     | 0.11   | Temp      | -0.62 | 0.0     | 0.17   | N_Trips   | 0.16  | 0.05    | 0.16   | Yt-1      | 0.52  | 0.0     | 0.1    | Precision | 8.2   | 0.0     | 0.43   |           |       |         |        |
| RSV   | AH_Yt-1_NTrips      | -464.0 | 0.88           | 0.79     | Intercept | -5.89 | 0.0     | 0.12   | AH        | -0.48 | 0.0     | 0.18   | N_Trips   | -0.02 | 0.82    | 0.17   | Yt-1      | 0.48  | 0.0     | 0.11   | Precision | 7.95  | 0.0     | 0.43   |           |       |         |        |
| RSV   | Temp_RH_Yt-1_NTrips | -484.0 | 0.93           | 0.8      | Intercept | -5.94 | 0.0     | 0.1    | Temp      | -0.66 | 0.0     | 0.14   | RH        | 0.15  | 0.0     | 0.08   | N_Trips   | 0.22  | 0.0     | 0.14   | Yt-1      | 0.48  | 0.0     | 0.09   | Precision | 8.5   | 0.0     | 0.43   |
| RSV   | AH_RH_Yt-1_NTrips   | -492.5 | 0.94           | 0.63     | Intercept | -5.96 | 0.0     | 0.09   | AH        | -0.72 | 0.0     | 0.15   | RH        | 0.27  | 0.0     | 0.08   | N_Trips   | 0.15  | 0.01    | 0.12   | Yt-1      | 0.43  | 0.0     | 0.08   | Precision | 8.72  | 0.0     | 0.43   |
| hCoVs | Yt-1                | -800.2 | 0.83           | 0.01     | Intercept | -7.04 | 0.0     | 0.17   | Yt-1      | 1.04  | 0.0     | 0.11   | Precision | 7.96  | 0.0     | 0.37   |           |       |         |        |           |       |         |        |           |       |         |        |
| hCoVs | Temp_Yt-1           | -837.6 | 0.91           | 0.31     | Intercept | -7.2  | 0.0     | 0.14   | Temp      | -0.7  | 0.0     | 0.18   | Yt-1      | 0.65  | 0.0     | 0.13   | Precision | 8.69  | 0.0     | 0.36   |           |       |         |        |           |       |         |        |
| hCoVs | AH_Yt-1             | -839.3 | 0.91           | 0.43     | Intercept | -7.23 | 0.0     | 0.14   | AH        | -0.73 | 0.0     | 0.19   | Yt-1      | 0.71  | 0.0     | 0.11   | Precision | 8.76  | 0.0     | 0.37   |           |       |         |        |           |       |         |        |
| hCoVs | NTrips_Yt-1         | -803.6 | 0.85           | 0.0      | Intercept | -7.07 | 0.0     | 0.16   | N_Trips   | -0.35 | 0.02    | 0.29   | Yt-1      | 0.75  | 0.0     | 0.26   | Precision | 8.06  | 0.0     | 0.37   |           |       |         |        |           |       |         |        |
| hCoVs | AH_RH_Yt-1          | -846.8 | 0.93           | 0.33     | Intercept | -7.27 | 0.0     | 0.14   | AH        | -0.8  | 0.0     | 0.18   | RH        | 0.12  | 0.0     | 0.07   | Yt-1      | 0.65  | 0.0     | 0.1    | Precision | 8.94  | 0.0     | 0.37   |           |       |         |        |
| hCoVs | Temp_RH_Yt-1        | -837.4 | 0.91           | 0.27     | Intercept | -7.2  | 0.0     | 0.14   | Temp      | -0.7  | 0.0     | 0.17   | RH        | 0.06  | 0.18    | 0.08   | Yt-1      | 0.63  | 0.0     | 0.13   | Precision | 8.72  | 0.0     | 0.36   |           |       |         |        |
| hCoVs | Temp_Yt-1_NTrips    | -838.7 | 0.92           | 0.41     | Intercept | -7.21 | 0.0     | 0.14   | Temp      | -0.82 | 0.0     | 0.22   | N_Trips   | 0.21  | 0.06    | 0.22   | Yt-1      | 0.75  | 0.0     | 0.17   | Precision | 8.75  | 0.0     | 0.36   |           |       |         |        |
| hCoVs | AH_Yt-1_NTrips      | -837.3 | 0.91           | 0.42     | Intercept | -7.23 | 0.0     | 0.14   | AH        | -0.73 | 0.0     | 0.21   | N_Trips   | 0.01  | 0.95    | 0.19   | Yt-1      | 0.72  | 0.0     | 0.16   | Precision | 8.76  | 0.0     | 0.37   |           |       |         |        |
| hCoVs | Temp_RH_Yt-1_NTrips | -842.9 | 0.92           | 0.75     | Intercept | -7.23 | 0.0     | 0.13   | Temp      | -0.92 | 0.0     | 0.21   | RH        | 0.11  | 0.01    | 0.08   | N_Trips   | 0.37  | 0.0     | 0.25   | Yt-1      | 0.79  | 0.0     | 0.16   | Precision | 8.86  | 0.0     | 0.36   |
| hCoVs | AH_RH_Yt-1_NTrips   | -850.1 | 0.93           | 0.52     | Intercept | -7.3  | 0.0     | 0.14   | AH        | -0.95 | 0.0     | 0.21   | RH        | 0.18  | 0.0     | 0.08   | N_Trips   | 0.25  | 0.02    | 0.2    | Yt-1      | 0.77  | 0.0     | 0.14   | Precision | 9.05  | 0.0     | 0.37   |
| hMPV  | Yt-1                | -546.9 | 0.85           | 0.02     | Intercept | -6.57 | 0.0     | 0.08   | Yt-1      | 0.55  | 0.0     | 0.07   | Precision | 9.34  | 0.0     | 0.43   |           |       |         |        |           |       |         |        |           |       |         |        |
| hMPV  | Temp_Yt-1           | -553.6 | 0.88           | 0.23     | Intercept | -6.58 | 0.0     | 0.07   | Temp      | -0.14 | 0.0     | 0.09   | Yt-1      | 0.5   | 0.0     | 0.07   | Precision | 9.55  | 0.0     | 0.43   |           |       |         |        |           |       |         |        |
| hMPV  | AH_Yt-1             | -551.2 | 0.87           | 0.31     | Intercept | -6.58 | 0.0     | 0.07   | AH        | -0.13 | 0.01    | 0.1    | Yt-1      | 0.5   | 0.0     | 0.07   | Precision | 9.49  | 0.0     | 0.43   |           |       |         |        |           |       |         |        |
| hMPV  | NTrips_Yt-1         | -548.8 | 0.87           | 0.08     | Intercept | -6.57 | 0.0     | 0.08   | N_Trips   | -0.09 | 0.04    | 0.09   | Yt-1      | 0.5   | 0.0     | 0.08   | Precision | 9.43  | 0.0     | 0.43   |           |       |         |        |           |       |         |        |
| hMPV  | AH_RH_Yt-1          | -554.7 | 0.89           | 0.17     | Intercept | -6.58 | 0.0     | 0.07   | AH        | -0.12 | 0.01    | 0.1    | RH        | 0.07  | 0.02    | 0.06   | Yt-1      | 0.51  | 0.0     | 0.07   | Precision | 9.62  | 0.0     | 0.43   |           |       |         |        |
| hMPV  | Temp_RH_Yt-1        | -553.7 | 0.89           | 0.13     | Intercept | -6.58 | 0.0     | 0.07   | Temp      | -0.11 | 0.02    | 0.09   | RH        | 0.05  | 0.14    | 0.07   | Yt-1      | 0.51  | 0.0     | 0.07   | Precision | 9.6   | 0.0     | 0.43   |           |       |         |        |
| hMPV  | Temp_Yt-1_NTrips    | -551.8 | 0.88           | 0.28     | Intercept | -6.58 | 0.0     | 0.07   | Temp      | -0.16 | 0.02    | 0.14   | N_Trips   | 0.03  | 0.64    | 0.13   | Yt-1      | 0.5   | 0.0     | 0.07   | Precision | 9.55  | 0.0     | 0.43   |           |       |         |        |
| hMPV  | AH_Yt-1_NTrips      | -549.8 | 0.88           | 0.25     | Intercept | -6.58 | 0.0     | 0.07   | AH        | -0.1  | 0.09    | 0.12   | N_Trips   | -0.04 | 0.46    | 0.1    | Yt-1      | 0.49  | 0.0     | 0.08   | Precision | 9.5   | 0.0     | 0.43   |           |       |         |        |
| hMPV  | Temp_RH_Yt-1_NTrips | -554.1 | 0.89           | 0.19     | Intercept | -6.58 | 0.0     | 0.07   | Temp      | -0.2  | 0.0     | 0.14   | RH        | 0.08  | 0.03    | 0.08   | N_Trips   | 0.12  | 0.11    | 0.14   | Yt-1      | 0.55  | 0.0     | 0.08   | Precision | 9.66  | 0.0     | 0.43   |
| hMPV  | AH_RH_Yt-1_NTrips   | -554.4 | 0.89           | 0.26     | Intercept | -6.58 | 0.0     | 0.07   | AH        | -0.18 | 0.0     | 0.13   | RH        | 0.11  | 0.01    | 0.08   | N_Trips   | 0.09  | 0.18    | 0.13   | Yt-1      | 0.54  | 0.0     | 0.08   | Precision | 9.67  | 0.0     | 0.43   |

Pandemic (March 2020-March 2022)

| Virus | Model               | AIC     | R <sup>2</sup> | pValueAC | Variable1 | Coef1 | pValue1 | error1 | Variable2 | Coef2 | pValue2 | error2 | Variable3 | Coef3 | pValue3 | error3 | Variable4 | Coef4 | pValue4 | error4 | Variable5 | Coef5 | pValue5 | error5 | Variable6 | Coef6 | pValue6 | error6 |
|-------|---------------------|---------|----------------|----------|-----------|-------|---------|--------|-----------|-------|---------|--------|-----------|-------|---------|--------|-----------|-------|---------|--------|-----------|-------|---------|--------|-----------|-------|---------|--------|
| IVA   | Yt-1                | -1771.0 | 0.42           | 0.01     | Intercept | -8.67 | 0.0     | 0.29   | Yt-1      | 0.57  | 0.0     | 0.06   | Precision | 7.77  | 0.0     | 0.37   |           |       |         |        |           |       |         |        |           |       |         |        |
| IVA   | Temp_Yt-1           | -1778.0 | 0.47           | 0.0      | Intercept | -8.73 | 0.0     | 0.28   | Temp      | -0.27 | 0.0     | 0.18   | Yt-1      | 0.55  | 0.0     | 0.06   | Precision | 7.89  | 0.0     | 0.36   |           |       |         |        |           |       |         |        |
| IVA   | AH_Yt-1             | -1776.0 | 0.46           | 0.01     | Intercept | -8.71 | 0.0     | 0.29   | AH        | -0.25 | 0.01    | 0.18   | Yt-1      | 0.55  | 0.0     | 0.06   | Precision | 7.86  | 0.0     | 0.36   |           |       |         |        |           |       |         |        |
| IVA   | NTrips_Yt-1         | -1770.0 | 0.43           | 0.05     | Intercept | -8.68 | 0.0     | 0.29   | N_Trips   | 0.12  | 0.21    | 0.18   | Yt-1      | 0.57  | 0.0     | 0.06   | Precision | 7.79  | 0.0     | 0.36   |           |       |         |        |           |       |         |        |
| IVA   | AH_RH_Yt-1          | -1775.0 | 0.46           | 0.0      | Intercept | -8.72 | 0.0     | 0.29   | AH        | -0.26 | 0.0     | 0.18   | RH        | 0.07  | 0.41    | 0.16   | Yt-1      | 0.55  | 0.0     | 0.06   | Precision | 7.88  | 0.0     | 0.36   |           |       |         |        |
| IVA   | Temp_RH_Yt-1        | -1776.0 | 0.47           | 0.0      | Intercept | -8.73 | 0.0     | 0.28   | Temp      | -0.27 | 0.0     | 0.18   | RH        | 0.01  | 0.92    | 0.16   | Yt-1      | 0.55  | 0.0     | 0.06   | Precision | 7.89  | 0.0     | 0.36   |           |       |         |        |
| IVA   | Temp_Yt-1_NTrips    | -1780.0 | 0.49           | 0.06     | Intercept | -8.77 | 0.0     | 0.28   | Temp      | -0.32 | 0.0     | 0.18   | N_Trips   | 0.2   | 0.04    | 0.19   | Yt-1      | 0.55  | 0.0     | 0.06   | Precision | 7.97  | 0.0     | 0.36   |           |       |         |        |
| IVA   | AH_Yt-1_NTrips      | -1777.0 | 0.47           | 0.09     | Intercept | -8.73 | 0.0     | 0.28   | AH        | -0.28 | 0.0     | 0.19   | N_Trips   | 0.16  | 0.09    | 0.18   | Yt-1      | 0.55  | 0.0     | 0.06   | Precision | 7.91  | 0.0     | 0.36   |           |       |         |        |
| IVA   | Temp_RH_Yt-1_NTrips | -1779.0 | 0.49           | 0.02     | Intercept | -8.79 | 0.0     | 0.29   | Temp      | -0.33 | 0.0     | 0.18   | RH        | 0.08  | 0.33    | 0.17   | N_Trips   | 0.23  | 0.02    | 0.2    | Yt-1      | 0.55  | 0.0     | 0.06   | Precision | 8.0   | 0.0     | 0.37   |
| IVA   | AH_RH_Yt-1_NTrips   | -1778.0 | 0.49           | 0.02     | Intercept | -8.79 | 0.0     | 0.29   | AH        | -0.32 | 0.0     | 0.19   | RH        | 0.15  | 0.08    | 0.17   | N_Trips   | 0.23  | 0.02    | 0.2    | Yt-1      | 0.55  | 0.0     | 0.06   | Precision | 7.99  | 0.0     | 0.37   |
| RSV   | Yt-1                | -1578.0 | 0.77           | 0.03     | Intercept | -7.94 | 0.0     | 0.17   | Yt-1      | 1.07  | 0.0     | 0.09   | Precision | 8.11  | 0.0     | 0.3    |           |       |         |        |           |       |         |        |           |       |         |        |
| RSV   | Temp_Yt-1           | -1579.0 | 0.78           | 0.06     | Intercept | -7.97 | 0.0     | 0.18   | Temp      | -0.11 | 0.07    | 0.12   | Yt-1      | 1.12  | 0.0     | 0.1    | Precision | 8.16  | 0.0     | 0.3    |           |       |         |        |           |       |         |        |
| RSV   | AH_Yt-1             | -1580.0 | 0.78           | 0.07     | Intercept | -7.97 | 0.0     | 0.17   | AH        | -0.12 | 0.05    | 0.12   | Yt-1      | 1.13  | 0.0     | 0.11   | Precision | 8.17  | 0.0     | 0.3    |           |       |         |        |           |       |         |        |
| RSV   | NTrips_Yt-1         | -1628.0 | 0.86           | 0.38     | Intercept | -8.14 | 0.0     | 0.16   | N_Trips   | 0.61  | 0.0     | 0.16   | Yt-1      | 0.93  | 0.0     | 0.08   | Precision | 8.73  | 0.0     | 0.29   |           |       |         |        |           |       |         |        |
| RSV   | AH_RH_Yt-1          | -1578.0 | 0.78           | 0.07     | Intercept | -7.97 | 0.0     | 0.18   | AH        | -0.12 | 0.05    | 0.12   | RH        | -0.02 | 0.72    | 0.14   | Yt-1      | 1.13  | 0.0     | 0.11   | Precision | 8.16  | 0.0     | 0.3    |           |       |         |        |
| RSV   | Temp_RH_Yt-1        | -1578.0 | 0.78           | 0.06     | Intercept | -7.96 | 0.0     | 0.18   | Temp      | -0.12 | 0.06    | 0.13   | RH        | -0.05 | 0.49    | 0.14   | Yt-1      | 1.13  | 0.0     | 0.11   | Precision | 8.16  | 0.0     | 0.3    |           |       |         |        |
| RSV   | Temp_Yt-1_NTrips    | -1626.0 | 0.86           | 0.39     | Intercept | -8.15 | 0.0     | 0.16   | Temp      | -0.04 | 0.43    | 0.11   | N_Trips   | 0.59  | 0.0     | 0.16   | Yt-1      | 0.96  | 0.0     | 0.11   | Precision | 8.75  | 0.0     | 0.3    |           |       |         |        |
| RSV   | AH_Yt-1_NTrips      | -1626.0 | 0.86           | 0.4      | Intercept | -8.15 | 0.0     | 0.16   | AH        | -0.04 | 0.51    | 0.11   | N_Trips   | 0.59  | 0.0     | 0.17   | Yt-1      | 0.96  | 0.0     | 0.11   | Precision | 8.74  | 0.0     | 0.29   |           |       |         |        |
| RSV   | Temp_RH_Yt-1_NTrips | -1628.0 | 0.87           | 0.16     | Intercept | -8.17 | 0.0     | 0.15   | Temp      | -0.02 | 0.72    | 0.11   | RH        | 0.11  | 0.04    | 0.1    | N_Trips   | 0.64  | 0.0     | 0.17   | Yt-1      | 0.91  | 0.0     | 0.12   | Precision | 8.8   | 0.0     | 0.29   |
| RSV   | AH_RH_Yt-1_NTrips   | -1629.0 | 0.87           | 0.18     | Intercept | -8.18 | 0.0     | 0.15   | AH        | -0.04 | 0.53    | 0.11   | RH        | 0.11  | 0.03    | 0.1    | N_Trips   | 0.63  | 0.0     | 0.17   | Yt-1      | 0.92  | 0.0     | 0.12   | Precision | 8.81  | 0.0     | 0.29   |
| hCoVs | Yt-1                | -1558.0 | 0.52           | 0.99     | Intercept | -8.17 | 0.0     | 0.18   | Yt-1      | 0.51  | 0.0     | 0.06   | Precision | 8.28  | 0.0     | 0.3    |           |       |         |        |           |       |         |        |           |       |         |        |
| hCoVs | Temp_Yt-1           | -1558.0 | 0.52           | 0.99     | Intercept | -8.18 | 0.0     | 0.18   | Temp      | -0.1  | 0.2     | 0.15   | Yt-1      | 0.5   | 0.0     | 0.06   | Precision | 8.3   | 0.0     | 0.3    |           |       |         |        |           |       |         |        |
| hCoVs | AH_Yt-1             | -1558.0 | 0.53           | 0.99     | Intercept | -8.18 | 0.0     | 0.18   | AH        | -0.11 | 0.14    | 0.15   | Yt-1      | 0.5   | 0.0     | 0.06   | Precision | 8.31  | 0.0     | 0.3    |           |       |         |        |           |       |         |        |
| hCoVs | NTrips_Yt-1         | -1687.0 | 0.86           | 0.96     | Intercept | -8.53 | 0.0     | 0.11   | N_Trips   | 0.73  | 0.0     | 0.1    | Yt-1      | 0.67  | 0.0     | 0.04   | Precision | 9.72  | 0.0     | 0.28   |           |       |         |        |           |       |         |        |
| hCoVs | AH_RH_Yt-1          | -1562.0 | 0.55           | 1.0      | Intercept | -8.2  | 0.0     | 0.17   | AH        | -0.1  | 0.22    | 0.16   | RH        | -0.18 | 0.02    | 0.15   | Yt-1      | 0.54  | 0.0     | 0.07   | Precision | 8.38  | 0.0     | 0.3    |           |       |         |        |
| hCoVs | Temp_RH_Yt-1        | -1563.0 | 0.55           | 1.0      | Intercept | -8.21 | 0.0     | 0.17   | Temp      | -0.12 | 0.11    | 0.15   | RH        | -0.2  | 0.01    | 0.14   | Yt-1      | 0.54  | 0.0     | 0.07   | Precision | 8.39  | 0.0     | 0.3    |           |       |         |        |
| hCoVs | Temp_Yt-1_NTrips    | -1685.0 | 0.86           | 0.91     | Intercept | -8.53 | 0.0     | 0.11   | Temp      | -0.02 | 0.7     | 0.08   | N_Trips   | 0.72  | 0.0     | 0.1    | Yt-1      | 0.67  | 0.0     | 0.05   | Precision | 9.72  | 0.0     | 0.28   |           |       |         |        |
| hCoVs | AH_Yt-1_NTrips      | -1685.0 | 0.86           | 0.93     | Intercept | -8.52 | 0.0     | 0.12   | AH        | -0.03 | 0.52    | 0.09   | N_Trips   | 0.72  | 0.0     | 0.1    | Yt-1      | 0.67  | 0.0     | 0.05   | Precision | 9.72  | 0.0     | 0.28   |           |       |         |        |
| hCoVs | Temp_RH_Yt-1_NTrips | -1685.0 | 0.86           | 0.97     | Intercept | -8.52 | 0.0     | 0.11   | Temp      | -0.02 | 0.71    | 0.08   | RH        | -0.06 | 0.13    | 0.08   | N_Trips   | 0.71  | 0.0     | 0.1    | Yt-1      | 0.68  | 0.0     | 0.05   | Precision | 9.74  | 0.0     | 0.28   |
| hCoVs | AH_RH_Yt-1_NTrips   | -1685.0 | 0.86           | 0.97     | Intercept | -8.52 | 0.0     | 0.11   | AH        | -0.01 | 0.75    | 0.09   | RH        | -0.06 | 0.16    | 0.08   | N_Trips   | 0.72  | 0.0     | 0.1    | Yt-1      | 0.68  | 0.0     | 0.05   | Precision | 9.74  | 0.0     | 0.28   |
| hMPV  | Yt-1                | -1678.0 | 0.53           | 0.76     | Intercept | -8.23 | 0.0     | 0.25   | Yt-1      | 0.72  | 0.0     | 0.08   | Precision | 7.56  | 0.0     | 0.34   |           |       |         |        |           |       |         |        |           |       |         |        |
| hMPV  | Temp_Yt-1           | -1678.0 | 0.54           | 0.77     | Intercept | -8.27 | 0.0     | 0.26   | Temp      | -0.13 | 0.14    | 0.17   | Yt-1      | 0.71  | 0.0     | 0.08   | Precision | 7.61  | 0.0     | 0.34   |           |       |         |        |           |       |         |        |
| hMPV  | AH_Yt-1             | -1678.0 | 0.53           | 0.75     | Intercept | -8.26 | 0.0     | 0.26   | AH        | -0.12 | 0.2     | 0.18   | Yt-1      | 0.71  | 0.0     | 0.08   | Precision | 7.6   | 0.0     | 0.34   |           |       |         |        |           |       |         |        |
| hMPV  | NTrips_Yt-1         | -1719.0 | 0.68           | 0.97     | Intercept | -8.56 | 0.0     | 0.23   | N_Trips   | 0.51  | 0.0     | 0.14   | Yt-1      | 0.88  | 0.0     | 0.08   | Precision | 8.21  | 0.0     | 0.33   |           |       |         |        |           |       |         |        |
| hMPV  | AH_RH_Yt-1          | -1676.0 | 0.53           | 0.73     | Intercept | -8.26 | 0.0     | 0.26   | AH        | -0.12 | 0.19    | 0.18   | RH        | 0.04  | 0.66    | 0.16   | Yt-1      | 0.7   | 0.0     | 0.09   | Precision | 7.6   | 0.0     | 0.34   |           |       |         |        |
| hMPV  | Temp_RH_Yt-1        | -1676.0 | 0.54           | 0.76     | Intercept | -8.27 | 0.0     | 0.26   | Temp      | -0.13 | 0.14    | 0.17   | RH        | 0.01  | 0.92    | 0.16   | Yt-1      | 0.71  | 0.0     | 0.09   | Precision | 7.61  | 0.0     | 0.34   |           |       |         |        |
| hMPV  | Temp_Yt-1_NTrips    | -1717.0 | 0.68           | 0.99     | Intercept | -8.56 | 0.0     | 0.23   | Temp      | -0.05 | 0.51    | 0.16   | N_Trips   | 0.5   | 0.0     | 0.14   | Yt-1      | 0.86  | 0.0     | 0.09   | Precision | 8.21  | 0.0     | 0.33   |           |       |         |        |
| hMPV  | AH_Yt-1_NTrips      | -1717.0 | 0.68           | 0.98     | Intercept | -8.56 | 0.0     | 0.23   | AH        | -0.05 | 0.56    | 0.16   | N_Trips   | 0.5   | 0.0     | 0.14   | Yt-1      | 0.87  | 0.0     | 0.08   | Precision | 8.21  | 0.0     | 0.33   |           |       |         |        |
| hMPV  | Temp_RH_Yt-1_NTrips | -1716.0 | 0.69           | 0.91     | Intercept | -8.56 | 0.0     | 0.23   | Temp      | -0.06 | 0.48    | 0.15   | RH        | 0.07  | 0.26    | 0.13   | N_Trips   | 0.5   | 0.0     | 0.14   | Yt-1      | 0.84  | 0.0     | 0.1    | Precision | 8.21  | 0.0     | 0.33   |
| hMPV  | AH_RH_Yt-1_NTrips   | -1717.0 | 0.69           | 0.9      | Intercept | -8.56 | 0.0     | 0.23   | AH        | -0.08 | 0.36    | 0.16   | RH        | 0.09  | 0.19    | 0.13   | N_Trips   | 0.5   | 0.0     | 0.14   | Yt-1      | 0.83  | 0.0     | 0.1    | Precision | 8.22  | 0.0     | 0.33   |