Table 4. Summary of Statistical Models Used in the Generation of Seasonally Adjusted CPI

(2012=100)

January 2012 – February 2021

| **Series Name/****Geographic Area Covered** | **Statistical Models/Options** | **Summary Measures** |
| --- | --- | --- |
| All Items – PHILS | MultiplicativeModel: (0,1,2)(0,1,1)With transformation - noneF-value: 3.035MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at level 0.96Check: M7, M8, M9, M10, M11 |
| All Items – NCR | AdditiveModel: (0,1,2)(0,1,1)With transformation - noneF-value: 1.086MAVS: 3x5 MAMAVTC: 9-term MA | Rejected at level 1.19Check: M7, M8, M9, M10, M11 |
| All Items – AONCR | MultiplicativeModel: (0,1,2)(0,1,1)With transformation - noneF-value: 2.976MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at level 0.94Check: M4, M7, M8, M9, M10, M11 |
| Food and Non-alcoholic Beverages – PHILS | MultiplicativeModel: (0,1,2)(0,1,1)With transformation - noneF-value: 8.035MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at level 0.67Check: M8, M9, M10, M11 |
| Food and Non-alcoholic Beverages – NCR | MultiplicativeModel: (0,1,2)(0,1,1)With transformation - noneF-value: 8.326MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at level 0.74Check: M8, M9, M10, M11 |
| Food and Non-alcoholic Beverages – AONCR | MultiplicativeModel: (0,2,2)(0,1,1)With transformation - noneF-value: 7.929MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at level 0.63Check: M8, M9, M10, M11 |
| Alcoholic Beverages and Tobacco – PHILS | AdditiveModel: (0,1,2)(0,1,1)With transformation - noneF-value: 12.046MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at level 0.46Check: M8, M10, M11 |
| Alcoholic Beverages and Tobacco – NCR | MultiplicativeModel: (0,1,2)(0,1,1)With transformation - noneF-value: 14.211MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at level 0.46Check: M4, M8, M10, M11 |
| Alcoholic Beverages and Tobacco – AONCR | AdditiveModel: (0,1,2)(0,1,1)With transformation - noneF-value: 10.890MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at level 0.51Check: M4, M8, M10, M11 |
| Non-Food – PHILS | AdditiveModel: (0,1,2)(0,1,1)With transformation - noneF-Value: 2.089MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at level 0.73Check: M7, M8, M10, M11 |
| Non-Food – NCR | AdditiveModel: (2,1,2)(0,1,1)With transformation - noneF-Value: 2.871MAVS: 3x9 MAMAVTC: 9-term MA | Accepted at level 0.60Check: M4, M6, M7 |
|  |
| Non-Food – AONCR | AdditiveModel: (0,1,2)(0,1,1)With transformation - noneF-Value: 1.468MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at level 0.93Check: M7, M8, M9, M10, M11 |
| Clothing and Footwear - PHILS | MultiplicativeModel: (2,1,0)(0,1,1)With transformation - noneF-value: 4.290MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.79Check: M7, M8, M9, M10, M11 |
| Clothing and Footwear - NCR | AdditiveModel: NoneWith transformation - noneF-value: 2.685MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.78Check: M7, M8, M9, M10, M11 |
| Clothing and Footwear - AONCR | AdditiveModel: (0,1,2)(0,1,1)With transformation - noneF-value: 3.466MAVS: 3X3 MAMAVTC: 9-term MA | Accepted at level 0.91Check: M7, M8, M9, M10, M11 |
| Housing, Water, Electricity, Gas and Other Fuels - PHILS | AdditiveModel: (0,1,1)(0,1,1)With transformation - noneF-value: 7.921MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.51 |
| Housing, Water, Electricity, Gas and Other Fuels - NCR | AdditiveModel: (0,1,1)(0,1,1)With transformation - noneF-value: 6.019MAVS: 3X9 MAMAVTC: 13-term MA | Accepted at level 0.80Check: M1, M6, M7 |
| Housing, Water, Electricity, Gas and Other Fuels - AONCR | AdditiveModel: (2,1,2)(0,1,1)With transformation - noneF-value: 6.804MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.65Check: M4, M8, M10, M11 |
| Furnishing, Household Equipment and Routine Maintenance of the House -PHILS | AdditiveModel: (2,1,0)(0,1,1)With transformation - noneF-value: 7.895MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.60Check: M7, M8, M9, M10, M11 |
| Furnishing, Household Equipment and Routine Maintenance of the House -NCR | AdditiveModel: (2,1,0)(0,1,1)With transformation – noneF-value: 5.074MAVS: 3X3 MAMAVTC: 9-term MA | Accepted at level 0.97Check: M7, M8, M9, M10, M11 |
| Furnishing, Household Equipment and Routine Maintenance of the House -AONCR | AdditiveModel: (2,1,0)(0,1,1)With transformation - noneF-value: 4.343MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.73Check: M7, M8, M9, M10, M11 |
| Health – PHILS | MultiplicativeModel: (2,1,0)(0,1,1)With transformation – noneF-value: 7.892MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.59Check: M8, M9, M10, M11 |
| Health –NCR | MultiplicativeModel: (0,1,2)(0,1,1)With transformation - noneF-value: 12.776MAVS: 3X3 MAMAVTC: 9-term MA | Accepted at level 0.62Check: M4, M8, M10, M11 |
| Health – AONCR | AdditiveModel: (2,1,0)(0,1,1)With transformation - noneF-value: 3.708MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.68Check: M7, M8, M9, M10, M11 |
| Transport – NCR | MultiplicativeModel: (0,1,1)(0,1,1)With transformation - noneF-value: 2.492MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.95Check: M4, M7, M8, M10, M11 |
| Recreation and Culture - PHILS | MultiplicativeModel: (0,1,1)(0,1,1)With transformation – noneF-value: 4.225MAVS: 3X3 MAMAVTC: 9-term MA | Accepted at level 0.86Check: M4, M7, M8, M9, M10 |
| Recreation and Culture - NCR | AdditiveModel: (0,1,2)(0,1,1)With transformation – noneF-value: 7.830MAVS: 3X3 MAMAVTC: 9-term MA | Accepted at level 0.70Check: M7, M8, M9, M10, M11 |
| Recreation and Culture - AONCR | AdditiveModel: (0,1,1)(0,1,1)With transformation –noneF-value: 3.764MAVS: 3X3 MAMAVTC: 9-term MA | Accepted at level 0.84Check: M7, M8, M9, M10 |
| Education – PHILS | AdditiveModel: (2,1,2)(0,1,1)With transformation - noneF-value: 13.845MAVS: 3X3 MAMAVTC: 9-term MA | Accepted at level 0.56Check: M4, M10, M11 |
| Education –NCR | MultiplicativeModel: NoneWith transformation - noneF-value: 54.124MAVS: 3X3 MAMAVTC: 9-term MA | Accepted at level 0.35Check: M4  |
| Education - AONCR | AdditiveModel: (2,1,2)(0,1,1)With transformation - noneF-value: 8.442MAVS: 3X3 MAMAVTC: 9-term MA | Accepted at level 0.68Check: M4, M7, M8, M10, M11 |
| Restaurant and Miscellaneous Goods and Services - PHILS | AdditiveModel: (2,1,2)(0,1,1)With transformation - noneF-value: 2.847MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.70Check: M7, M8, M9, M10, M11 |
| Restaurant and MiscellaneousGoods and Services – NCR | MultiplicativeModel: (2,1,2)(0,1,1)With transformation - noneF-value: 3.496MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.71Check: M4, M7, M8, M10, M11 |
| Restaurant and MiscellaneousGoods and Services – AONCR | AdditiveModel: (2,1,2)(0,1,1)With transformation - noneF-value: 1.855MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.99Check: M7, M8, M9, M10, M11 |

Source: Philippine Statistics Authority