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

(2012=100)

January 2012 – April 2021

| **Series Name/****Geographic Area Covered** | **Statistical Models/Options** | **Summary Measures** |
| --- | --- | --- |
| All Items – PHILS | MultiplicativeModel: (0,1,1)(0,1,1)With transformation - noneF-value: 3.806MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at level 0.97Check: M7, M8, M9, M10, M11 |
| All Items – NCR | AdditiveModel: (2,1,2)(0,1,1)With transformation - noneF-value: 1.122MAVS: 3x5 MAMAVTC: 9-term MA | Rejected at level 1.17Check: M7, M8, M9, M10, M11 |
| All Items – AONCR | MultiplicativeModel: (0,1,1)(0,1,1)With transformation - noneF-value: 2.999MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at level 0.97Check: M4, M7, M8, M9, M10, M11 |
| Food and Non-alcoholic Beverages – PHILS | MultiplicativeModel: (0,1,1)(0,1,1)With transformation - noneF-value: 8.060MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at level 0.66Check: M8, M9, M10, M11 |
| Food and Non-alcoholic Beverages – NCR | MultiplicativeModel: (2,1,2)(0,1,1)With transformation - noneF-value: 8.740MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at level 0.72Check: M8, M9, M10, M11 |
| Food and Non-alcoholic Beverages – AONCR | MultiplicativeModel: (0,1,2)(0,1,1)With transformation - noneF-value: 7.404MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at level 0.70Check: M8, M9, M10, M11 |
| Alcoholic Beverages and Tobacco – PHILS | AdditiveModel: (2,1,0)(0,1,1)With transformation - noneF-value: 12.813MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at level 0.46Check: M4, M10, M11 |
| Alcoholic Beverages and Tobacco – NCR | MultiplicativeModel: (0,1,1)(0,1,1)With transformation - noneF-value: 14.343MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at level 0.47Check: M4, M8, M10, M11 |
| Alcoholic Beverages and Tobacco – AONCR | AdditiveModel: (0,1,1)(0,1,1)With transformation - noneF-value: 11.589MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at level 0.47Check: M4, M10, M11 |
| Non-Food – PHILS | AdditiveModel: (2,1,2)(0,1,1)With transformation - noneF-Value: 2.230MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at level 0.75Check: M7, M8, M10, M11 |
| Non-Food – NCR | AdditiveModel: (2,1,2)(0,1,1)With transformation - noneF-Value: 2.474MAVS: 3x9 MAMAVTC: 9-term MA | Accepted at level 0.65Check: M6, M7 |
|  |
| Non-Food – AONCR | AdditiveModel: (2,1,2)(0,1,1)With transformation - noneF-Value: 1.604MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at level 0.87Check: M7, M8, M9, M10, M11 |
| Clothing and Footwear - PHILS | MultiplicativeModel: (2,1,0)(0,1,1)With transformation - noneF-value: 4.538MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.78Check: M7, M8, M9, M10, M11 |
| Clothing and Footwear - NCR | AdditiveModel: NoneWith transformation - noneF-value: 2.618MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.79Check: M7, M8, M9, M10, M11 |
| Clothing and Footwear - AONCR | AdditiveModel: (2,1,2)(0,1,1)With transformation - noneF-value: 3.576MAVS: 3X3 MAMAVTC: 9-term MA | Accepted at level 0.90Check: M7, M8, M9, M10, M11 |
| Housing, Water, Electricity, Gas and Other Fuels - PHILS | AdditiveModel: (2,1,0)(0,1,1)With transformation - noneF-value: 7.799MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.51Check: M10 |
| Housing, Water, Electricity, Gas and Other Fuels - NCR | AdditiveModel: (0,1,2)(0,1,1)With transformation - noneF-value: 5.717MAVS: 3X9 MAMAVTC: 13-term MA | Accepted at level 0.83Check: M1, M7 |
| Housing, Water, Electricity, Gas and Other Fuels - AONCR | AdditiveModel: (2,1,2)(0,1,1)With transformation - noneF-value: 7.006MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.66Check: M4, M8, M10, M11 |
| Furnishing, Household Equipment and Routine Maintenance of the House -PHILS | AdditiveModel: (0,1,1)(0,1,1)With transformation - noneF-value: 8.684MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.56Check: M7, M8, M9, M10, M11 |
| Furnishing, Household Equipment and Routine Maintenance of the House -NCR | AdditiveModel: (0,1,2)(0,1,1)With transformation – noneF-value: 5.410MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.82Check: M7, M8, M9, M10, M11 |
| Furnishing, Household Equipment and Routine Maintenance of the House -AONCR | AdditiveModel: (0,2,2)(0,1,1)With transformation - noneF-value: 5.049MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.63Check: M7, M8, M9, M10, M11 |
| Health – PHILS | MultiplicativeModel: (2,1,0)(0,1,1)With transformation – noneF-value: 8.145MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.56Check: M8, M9, M10, M11 |
| Health –NCR | MultiplicativeModel: (2,1,0)(0,1,1)With transformation - noneF-value: 13.048MAVS: 3X3 MAMAVTC: 9-term MA | Accepted at level 0.59Check: M8, M10, M11 |
| Health – AONCR | AdditiveModel: (2,1,0)(0,1,1)With transformation - noneF-value: 3.847MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.66Check: M7, M8, M9, M10, M11 |
| Transport – NCR | MultiplicativeModel: (2,1,2)(0,1,1)With transformation - noneF-value: 2.674MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.95Check: M4, M7, M8, M10, M11 |
| Recreation and Culture - PHILS | MultiplicativeModel: (0,1,2)(0,1,1)With transformation – noneF-value: 4.193MAVS: 3X3 MAMAVTC: 9-term MA | Accepted at level 0.85Check: M4, M7, M8, M9, M10 |
| Recreation and Culture - NCR | AdditiveModel: (2,1,2)(0,1,1)With transformation – noneF-value: 7.527MAVS: 3X3 MAMAVTC: 9-term MA | Accepted at level 0.72Check: M7, M8, M9, M10, M11 |
| Recreation and Culture - AONCR | AdditiveModel: (2,1,2)(0,1,1)With transformation –noneF-value: 3.717MAVS: 3X3 MAMAVTC: 9-term MA | Accepted at level 0.83Check: M7, M8, M9, M10 |
| Education – PHILS | AdditiveModel: (0,1,2)(0,1,1)With transformation - noneF-value: 14.364MAVS: 3X3 MAMAVTC: 9-term MA | Accepted at level 0.54Check: M4, M10, M11 |
| Education –NCR | MultiplicativeModel: NoneWith transformation - noneF-value: 55.196MAVS: 3X3 MAMAVTC: 9-term MA | Accepted at level 0.34Check: M4  |
| Education - AONCR | AdditiveModel: (2,1,2)(0,1,1)With transformation - noneF-value: 8.736MAVS: 3X3 MAMAVTC: 9-term MA | Accepted at level 0.66Check: M4, M7, M8, M10, M11 |
| Restaurant and Miscellaneous Goods and Services - PHILS | AdditiveModel: (0,2,2)(0,1,1)With transformation - noneF-value: 2.329MAVS: 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: 3.180MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.71Check: M4, M7, M8, M10, M11 |
| Restaurant and MiscellaneousGoods and Services – AONCR | AdditiveModel: (0,2,2)(0,1,1)With transformation - noneF-value: 1.758MAVS: 3X5 MAMAVTC: 9-term MA | Rejected at level 1.00Check: M7, M8, M9, M10, M11 |

Source: Philippine Statistics Authority