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

(2012=100)

January 2012 – May 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: 3.260MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at level 0.96Check: M7, M8, M9, M10, M11 |
| All Items – NCR | AdditiveModel: (2,1,2)(0,1,1)With transformation - noneF-value: 1.302MAVS: 3x5 MAMAVTC: 9-term MA | Rejected at level 1.14Check: M7, M8, M9, M10, M11 |
| All Items – AONCR | MultiplicativeModel: (0,1,1)(0,1,1)With transformation - noneF-value: 3.102MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at level 0.96Check: M4, M7, M8, M9, M10, M11 |
| Food and Non-alcoholic Beverages – PHILS | MultiplicativeModel: (0,1,1)(0,1,1)With transformation - noneF-value: 7.854MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at level 0.71Check: M8, M9, M10, M11 |
| Food and Non-alcoholic Beverages – NCR | MultiplicativeModel: (0,1,1)(0,1,1)With transformation - noneF-value: 8.348MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at level 0.78Check: M4, M8, M9, M10, M11 |
| Food and Non-alcoholic Beverages – AONCR | MultiplicativeModel: (0,1,1)(0,1,1)With transformation - noneF-value: 7.321MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at level 0.73Check: M4, M7, M8, M9, M10, M11 |
| Alcoholic Beverages and Tobacco – PHILS | AdditiveModel: (0,1,2)(0,1,1)With transformation - noneF-value: 13.046MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at level 0.45Check: M4, M10, M11 |
| Alcoholic Beverages and Tobacco – NCR | MultiplicativeModel: (0,1,2)(0,1,1)With transformation - noneF-value: 14.602MAVS: 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: 11.997MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at level 0.48Check: M4, M10, M11 |
| Non-Food – PHILS | AdditiveModel: (2,1,2)(0,1,1)With transformation - noneF-Value: 2.274MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at level 0.77Check: M7, M8, M10, M11 |
| Non-Food – NCR | AdditiveModel: (0,1,2)(0,1,1)With transformation - noneF-Value: 2.311MAVS: 3x9 MAMAVTC: 9-term MA | Accepted at level 0.66Check: M6, M7 |
|  |
| Non-Food – AONCR | AdditiveModel: (2,1,2)(0,1,1)With transformation - noneF-Value: 1.667MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at level 0.83Check: M7, M8, M9, M10, M11 |
| Clothing and Footwear - PHILS | MultiplicativeModel: (0,2,2)(0,1,1)With transformation - noneF-value: 4.629MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.77Check: M7, M8, M9, M10, M11 |
| Clothing and Footwear - NCR | AdditiveModel: NoneWith transformation - noneF-value: 2.485MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.80Check: M7, M8, M9, M10, M11 |
| Clothing and Footwear - AONCR | AdditiveModel: (2,1,0)(0,1,1)With transformation - noneF-value: 3.763MAVS: 3X3 MAMAVTC: 9-term MA | Accepted at level 0.89Check: M7, M8, M9, M10, M11 |
| Housing, Water, Electricity, Gas and Other Fuels - PHILS | AdditiveModel: (2,1,0)(0,1,1)With transformation - noneF-value: 7.657MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.54Check: M8, M10 |
| Housing, Water, Electricity, Gas and Other Fuels - NCR | AdditiveModel: (0,1,2)(0,1,1)With transformation - noneF-value: 5.317MAVS: 3X9 MAMAVTC: 13-term MA | Accepted at level 0.87Check: M1, M7 |
| Housing, Water, Electricity, Gas and Other Fuels - AONCR | AdditiveModel: (2,1,2)(0,1,1)With transformation - noneF-value: 6.901MAVS: 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: (2,1,0)(0,1,1)With transformation - noneF-value: 8.228MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.54Check: 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: 5.038MAVS: 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: 4.926MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.60Check: M7, M8, M9, M10, M11 |
| Health – PHILS | MultiplicativeModel: (0,1,1)(0,1,1)With transformation – noneF-value: 8.474MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.54Check: M8, M9, M10, M11 |
| Health –NCR | MultiplicativeModel: (2,1,0)(0,1,1)With transformation - noneF-value: 13.485MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.56Check: M4, M8, M10, M11 |
| Health – AONCR | AdditiveModel: (0,1,1)(0,1,1)With transformation - noneF-value: 3.990MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.64Check: M7, M8, M9, M10, M11 |
| Transport – NCR | MultiplicativeModel: (0,1,2)(0,1,1)With transformation - noneF-value: 2.635MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.93Check: M4, M7, M8, M10, M11 |
| Recreation and Culture - PHILS | MultiplicativeModel: (0,1,2)(0,1,1)With transformation – noneF-value: 4.136MAVS: 3X3 MAMAVTC: 9-term MA | Accepted at level 0.86Check: M4, M7, M8, M9, M10 |
| Recreation and Culture - NCR | AdditiveModel: (2,1,2)(0,1,1)With transformation – noneF-value: 7.357MAVS: 3X3 MAMAVTC: 9-term MA | Accepted at level 0.75Check: M7, M8, M9, M10, M11 |
| Recreation and Culture - AONCR | AdditiveModel: (0,1,2)(0,1,1)With transformation –noneF-value: 3.693MAVS: 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: 14.838MAVS: 3X3 MAMAVTC: 9-term MA | Accepted at level 0.52Check: M4, M10, M11 |
| Education –NCR | MultiplicativeModel: NoneWith transformation - noneF-value: 57.389MAVS: 3X3 MAMAVTC: 9-term MA | Accepted at level 0.33Check: M4  |
| Education - AONCR | AdditiveModel: (2,1,2)(0,1,1)With transformation - noneF-value: 9.021MAVS: 3X3 MAMAVTC: 9-term MA | Accepted at level 0.65Check: M4, M7, M8, M10, M11 |
| Restaurant and Miscellaneous Goods and Services - PHILS | AdditiveModel: (2,1,2)(0,1,1)With transformation - noneF-value: 2.109MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.72Check: M7, M8, M9, M10, M11 |
| Restaurant and MiscellaneousGoods and Services – NCR | MultiplicativeModel: (2,1,2)(0,1,1)With transformation - noneF-value: 2.854MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.76Check: M4, M7, M8, M10, M11 |
| Restaurant and MiscellaneousGoods and Services – AONCR | AdditiveModel: (0,2,2)(0,1,1)With transformation - noneF-value: 1.811MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.98Check: M7, M8, M9, M10, M11 |

Source: Philippine Statistics Authority