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

(2018=100)

December 2022 – December 2023

| **Series Name/****Geographic Area Covered** | **Statistical Models/Options** | **Summary Measures** |
| --- | --- | --- |
| All Items – PHILS | AdditiveNone of the models were chosen.With transformation - noneF-value: 5.637MAVS: 3x5 MAMAVTC: 9-term MA | Conditionally accepted at the level 0.80.Check: M4, M7, M8, M9, M10, and M11 |
| All Items – AONCR | MultiplicativeModel: (2,1,2)(0,1,1)With transformation - noneF-value: 5.952MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at the level 0.72.Check: M7, M8, M9, M10, and M11 |
| Food and Non-alcoholic Beverages – PHILS | MultiplicativeModel: (2,1,2)(0,1,1)With transformation - noneF-value: 13.020MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at the level 0.60.Check: M4, M8, M10, and M11 |
| Food and Non-alcoholic Beverages – NCR | MultiplicativeModel: (2,1,2)(0,1,1)With transformation - noneF-value: 14.918MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at the level 0.53.Check: M4, M8, M10, and M11 |
| Food and Non-alcoholic Beverages – AONCR | MultiplicativeModel: (2,1,2)(0,1,1)With transformation - noneF-value: 11.721MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at the level 0.63.Check: M4, M8, M9, M10, and M11 |
| Alcoholic Beverages and Tobacco – PHILS | AdditiveModel: (0,1,1)(0,1,1)With transformation - noneF-value: 12.140MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at the level 0.53.Check: M4, M8, M10, and M11 |
| Alcoholic Beverages and Tobacco – NCR | AdditiveModel: (0,1,1)(0,1,1)With transformation - noneF-value: 12.061MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at the level 0.59.Check: M4, M8, M10, and M11 |
| Alcoholic Beverages and Tobacco – AONCR | AdditiveModel: (0,1,1)(0,1,1)With transformation - noneF-value: 11.463MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at the level 0.53.Check: M4, M8, M10, and M11 |
| Non-Food – PHILS | AdditiveModel: (0,1,2)(0,1,1)With transformation - noneF-Value: 2.646MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at the level 0.78.Check: M4, M7, M8, M10, and M11 |
| Non-Food – NCR | MultiplicativeModel: (0,1,1)(0,1,1)With transformation - noneF-Value: 2.966MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at the level 0.77.Check: M7, M8, M10, and M11 |
| Non-Food – AONCR | MultiplicativeModel: (0,1,2)(0,1,1)With transformation - noneF-Value: 2.510MAVS: 3x5 MAMAVTC: 9-term MA | Conditionally accepted at the level 0.81.Check: M7, M8, M9, M10, and M11 |
| Clothing and Footwear - PHILS | AdditiveModel: (2,1,0)(0,1,1)With transformation - noneF-value: 5.241MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at the level 0.54.Check: M7, M8, M10, and M11 |
| Clothing and Footwear - NCR | AdditiveNone of the models were chosen.With transformation - noneF-value: 3.341MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at the level 0.71.Check: M7, M8, M10, and M11 |
| Clothing and Footwear - AONCR | AdditiveModel: (2,1,0)(0,1,1)With transformation - noneF-value: 4.058MAVS: 3X3 MAMAVTC: 9-term MA | Accepted at the level 0.77.Check: M7, M8, M9, M10, and M11 |
| Housing, Water, Electricity, Gas and Other Fuels - PHILS | AdditiveModel: (0,1,2)(0,1,1)With transformation - noneF-value: 7.946MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at the level 0.59.Check: M8, M10, and M11 |
| Housing, Water, Electricity, Gas and Other Fuels - NCR | AdditiveModel: (2,1,2)(0,1,1)With transformation - noneF-value: 5.862MAVS: 3X9 MAMAVTC: 13-term MA | Conditionally accepted at the level 0.81.Check: M1, M7, and M10 |
| Housing, Water, Electricity, Gas and Other Fuels - AONCR | MultiplicativeModel: (2,1,2)(0,1,1)With transformation - noneF-value: 7.148MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at the level 0.67.Check: M4, M8, M10, and M11 |
| Furnishings, Household Equipment and Routine Household Maintenance - PHILS | MultiplicativeModel: (0,1,2)(0,1,1)With transformation - noneF-value: 10.537MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at the level 0.51.Check: M7, M8, M10 and M11 |
| Furnishings, Household Equipment and Routine Household Maintenance – NCR | MultiplicativeModel: (0,1,1)(0,1,1)With transformation – noneF-value: 9.014MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at the level 0.68.Check: M7, M8, M9, M10, and M11 |
| Furnishings, Household Equipment and Routine Household Maintenance – AONCR | AdditiveModel: (0,1,1)(0,1,1)With transformation - noneF-value: 6.099MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at the level 0.56.Check: M7, M8, M9, M10 and M11 |
| Health – PHILS | AdditiveModel: (2,1,2)(0,1,1)With transformation – noneF-value: 10.844MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at the level 0.43.Check: M8, M10, and M11 |
| Health – NCR | AdditiveNone of the models were chosen.With transformation - noneF-value: 11.295MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at the level 0.50.Check: M8, M10, and M11 |
| Health – AONCR | MultiplicativeModel: (2,1,2)(0,1,1)With transformation - noneF-value: 6.441MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at the level 0.54.Check: M8, M9, M10, and M11 |
| Information and Communication – AONCR | AdditiveModel: (2,1,2)(0,1,1)With transformation - noneF-value: 3.158MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at the level 0.68.Check: M7, M8, M9, M10, and M11 |
| Recreation, Sport and Culture - NCR | MultiplicativeModel: (2,1,0)(0,1,1)With transformation - noneF-value: 4.089MAVS: 3X3 MAMAVTC: 9-term MA | Conditionally accepted at the level 0.95.Check: M7, M8, M9, M10, and M11 |
| Education Services – PHILS | AdditiveModel: (0,1,1)(0,1,1)With transformation - noneF-value: 19.683MAVS: 3X3 MAMAVTC: 9-term MA | Accepted at the level 0.66.Check: M4, M8, M10, and M11 |
| Education Services –NCR | AdditiveModel: (0,1,2)(0,1,1)With transformation - noneF-value: 15.363MAVS: 3X3 MAMAVTC: 9-term MA | Accepted at the level 0.66.Check: M4, M8, M10, and M11 |
| Education Services - AONCR | AdditiveModel: (0,1,1)(0,1,1)With transformation - noneF-value: 18.709MAVS: 3X3 MAMAVTC: 9-term MA | Accepted at the level 0.69.Check: M4, M6, M8, M9, M10, and M11 |
| Restaurants and Accommodation Services – AONCR | AdditiveNone of the models were chosen.With transformation - noneF-value: 5.496MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at the level 0.56.Check: M7, M8, M9, M10, and M11 |
| Personal Care, and Miscellaneous Goods and Services – PHILS | AdditiveModel: (0,1,2)(0,1,1)With transformation - noneF-value: 7.158MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at the level 0.70.Check: M7, M8, M9, M10, and M11 |
| Personal Care, and Miscellaneous Goods and Services – NCR | AdditiveModel: (0,1,2)(0,1,1)With transformation - noneF-value: 15.927MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at the level 0.47.Check: M4, M10, and M11 |

Source: Philippine Statistics Authority