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

(2018=100)

January 2022 – January 2023

| **Series Name/****Geographic Area Covered** | **Statistical Models/Options** | **Summary Measures** |
| --- | --- | --- |
| All Items – PHILS | AdditiveModel: (0,1,1)(0,1,1)With transformation - noneF-value: 4.734MAVS: 3x5 MAMAVTC: 9-term MA | Conditionally accepted at the level 0.82.Check: M4, M7, M8, M9, M10, and M11 |
| All Items – AONCR | MultiplicativeModel: (2,1,2)(0,1,1)With transformation - noneF-value: 5.199MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at the level 0.76.Check: M4, M7, M8, M9, M10, and M11 |
| Food and Non-alcoholic Beverages – PHILS | MultiplicativeModel: (2,1,2)(0,1,1)With transformation - noneF-value: 10.851MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at the level 0.67.Check: M4, M8, M9, M10, and M11 |
| Food and Non-alcoholic Beverages – NCR | MultiplicativeModel: (2,1,2)(0,1,1)With transformation - noneF-value: 13.045MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at the level 0.59.Check: M4, M7, M10, and M11 |
| Food and Non-alcoholic Beverages – AONCR | MultiplicativeModel: (2,1,2)(0,1,1)With transformation - noneF-value: 9.887MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at the level 0.70.Check: M4, M8, M9, M10, and M11 |
| Alcoholic Beverages and Tobacco – PHILS | AdditiveModel: (2,1,0)(0,1,1)With transformation - noneF-value: 12.130MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at the level 0.52.Check: M4, M8, M10, and M11 |
| Alcoholic Beverages and Tobacco – NCR | AdditiveModel: (0,1,1)(0,1,1)With transformation - noneF-value: 12.582MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at the level 0.55.Check: M4, M8, M10, and M11 |
| Alcoholic Beverages and Tobacco – AONCR | AdditiveModel: (2,1,0)(0,1,1)With transformation - noneF-value: 11.582MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at the level 0.50.Check: M4, M8, and M10 |
| Non-Food – PHILS | AdditiveNone of the models were chosen.With transformation - noneF-Value: 3.535MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at the level 0.71.Check: M7, M8, M9, M10, and M11 |
| Non-Food – NCR | MultiplicativeModel: (0,2,2)(0,1,1)With transformation - noneF-Value: 3.135MAVS: 3x9 MAMAVTC: 9-term MA | Accepted at the level 0.56.Check: M7 |
| Non-Food – AONCR | MultiplicativeModel: (2,1,0)(0,1,1)With transformation - noneF-Value: 3.556MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at the level 0.72.Check: M7, M8, M9, M10, and M11 |
|  |
| Clothing and Footwear - PHILS | AdditiveModel: (0,1,2)(0,1,1)With transformation - noneF-value: 4.085MAVS: 3X5 MAMAVTC: 9-term MA | Conditionally accepted at the level 0.67.Check: M7, M8, M9, M10, and M11 |
| Clothing and Footwear - NCR | AdditiveModel: (2,1,0)(0,1,1)With transformation - noneF-value: 2.187MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at the level 0.75.Check: M7, M8, M9, M10, and M11 |
| Clothing and Footwear - AONCR | AdditiveModel: (0,1,2)(0,1,1)With transformation - noneF-value: 3.542MAVS: 3X3 MAMAVTC: 9-term MA | Conditionally accepted at the level 0.84.Check: M7, M8, M9, M10, and M11 |
| Housing, Water, Electricity, Gas and Other Fuels - PHILS | AdditiveModel: (0,2,2)(0,1,1)With transformation - noneF-value: 7.364MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at the level 0.52.Check: M8, M10, and M11 |
| Housing, Water, Electricity, Gas and Other Fuels - NCR | AdditiveModel: (2,1,2)(0,1,1)With transformation - noneF-value: 4.830MAVS: 3X9 MAMAVTC: 13-term MA | Conditionally accepted at the level 0.85.Check: M1 and M7 |
| Housing, Water, Electricity, Gas and Other Fuels - AONCR | MultiplicativeModel: (0,2,2)(0,1,1)With transformation - noneF-value: 6.479MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at the level 0.69.Check: M4, M8, M9, M10, and M11 |
| Furnishings, Household Equipment and Routine Household Maintenance - PHILS | MultiplicativeModel: (0,1,1)(0,1,1)With transformation - noneF-value: 9.119MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at the level 0.53.Check: M7, M8, M9, M10 and M11 |
| Furnishings, Household Equipment and Routine Household Maintenance – NCR | MultiplicativeModel: (0,1,1)(0,1,1)With transformation – noneF-value: 7.496MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at the level 0.58.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: 4.895MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at the level 0.61.Check: M7, M8, M9, M10 and M11 |
| Health – PHILS | AdditiveModel: (2,1,2)(0,1,1)With transformation – noneF-value: 10.892MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at the level 0.44.Check: M8, M10, and M11 |
| Health – NCR | AdditiveModel: (0,1,1)(0,1,1)With transformation - noneF-value: 11.482MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at the level 0.45.Check: M8 |
| Health – AONCR | MultiplicativeModel: (0,2,2)(0,1,1)With transformation - noneF-value: 5.880MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at the level 0.53.Check: M8, M9, M10, and M11 |
| Information and Communication – AONCR | AdditiveModel: (2,1,2)(0,1,1)With transformation - noneF-value: 3.961MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at the level 0.66.Check: M7, M8, M9, M10, and M11 |
| Recreation, Sport and Culture - NCR | MultiplicativeModel: (0,1,1)(0,1,1)With transformation - noneF-value: 4.325MAVS: 3X3 MAMAVTC: 9-term MA | Accepted at the level 0.94.Check: M7, M8, M9, M10, and M11 |
| Education Services – PHILS | AdditiveModel: (0,1,2)(0,1,1)With transformation - noneF-value: 24.388MAVS: 3X3 MAMAVTC: 9-term MA | Accepted at the level 0.52.Check: M4, M8, M10, and M11 |
| Education Services –NCR | AdditiveModel: (0,1,2)(0,1,1)With transformation - noneF-value: 16.189MAVS: 3X3 MAMAVTC: 9-term MA | Accepted at the level 0.61.Check: M4, M10, and M11 |
| Education Services - AONCR | AdditiveModel: (2,1,0)(0,1,1)With transformation - noneF-value: 24.466MAVS: 3X3 MAMAVTC: 9-term MA | Accepted at the level 0.57.Check: M4, M8, M10, and M11 |
| Restaurants and Accommodation Services – AONCR | AdditiveModel: (0,1,2)(0,1,1)With transformation - noneF-value: 4.354MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at the level 0.65.Check: M7, M8, M9, M10, and M11 |
| Personal Care, and Miscellaneous Goods and Services – PHILS | AdditiveModel: (0,1,1)(0,1,1)With transformation - noneF-value: 3.972MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at the level 0.72.Check: M7, M8, M9, M10, and M11 |
| Personal Care, and Miscellaneous Goods and Services – NCR | AdditiveModel: (2,1,2)(0,1,1)With transformation - noneF-value: 12.828MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at the level 0.48.Check: M10 and M11 |

Source: Philippine Statistics Authority