# Table 4. Summary of Statistical Models Used in the Generation of Seasonally Adjusted CPI
## (2018=100)

### June 2022 – June 2023

| Series Name/ Geographic Area Covered | Statistical Models/Options | Summary Measures |
|---|---|---|
| All Items – PHILS | Additive<br>Model: (2,1,0)(0,1,1)<br>With transformation - none<br>F-value: 5.954<br>MAVS: 3x5 MA<br>MAVTC: 9-term MA | Conditionally accepted at the level 0.83.<br>Check: M4, M7, M8, M9, M10, and M11 |
| All Items – AONCR | Multiplicative<br>Model: (2,1,0)(0,1,1)<br>With transformation - none<br>F-value: 6.129<br>MAVS: 3x5 MA<br>MAVTC: 9-term MA | Accepted at the level 0.76.<br>Check: M4, M7, M8, M9, M10, and M11 |
| Food and Non-alcoholic Beverages – PHILS | Multiplicative<br>Model: (2,1,0)(0,1,1)<br>With transformation - none<br>F-value: 12.501<br>MAVS: 3x5 MA<br>MAVTC: 9-term MA | Accepted at the level 0.65.<br>Check: M4, M8, M9, M10, and M11 |
| Food and Non-alcoholic Beverages – NCR | Multiplicative<br>Model: (0,1,2)(0,1,1)<br>With transformation - none<br>F-value: 14.470<br>MAVS: 3x5 MA<br>MAVTC: 9-term MA | Accepted at the level 0.59.<br>Check: M4, M8, M10, and M11 |
| Food and Non-alcoholic Beverages – AONCR | Multiplicative<br>Model: (2,1,0)(0,1,1)<br>With transformation - none<br>F-value: 11.468<br>MAVS: 3x5 MA<br>MAVTC: 9-term MA | Accepted at the level 0.68.<br>Check: M4, M8, M9, M10, and M11 |

| Series Name/ Geographic Area Covered | Statistical Models/Options | Summary Measures |
|---|---|---|
| Alcoholic Beverages and Tobacco – PHILS | Additive<br>Model: (2,1,0)(0,1,1)<br>With transformation - none<br>F-value: 10.877<br>MAVS: 3x5 MA<br>MAVTC: 9-term MA | Accepted at the level 0.54.<br>Check: M4, M8, M10, and M11 |
| Alcoholic Beverages and Tobacco – NCR | Additive<br>Model: (2,1,0)(0,1,1)<br>With transformation - none<br>F-value: 13.085<br>MAVS: 3x5 MA<br>MAVTC: 9-term MA | Accepted at the level 0.56.<br>Check: M4, M8, M10, and M11 |
| Alcoholic Beverages and Tobacco – AONCR | Additive<br>Model: (0,1,2)(0,1,1)<br>With transformation - none<br>F-value: 11.446<br>MAVS: 3x5 MA<br>MAVTC: 9-term MA | Accepted at the level 0.49.<br>Check: M4, M8, and M10 |
| Non-Food – PHILS | Additive<br>None of the models were chosen.<br>With transformation - none<br>F-Value: 3.704<br>MAVS: 3x5 MA<br>MAVTC: 9-term MA | Accepted at the level 0.68.<br>Check: M7, M8, M10, and M11 |
| Non-Food – NCR | Multiplicative<br>Model: (2,1,0)(0,1,1)<br>With transformation - none<br>F-Value: 3.073<br>MAVS: 3x9 MA<br>MAVTC: 9-term MA | Accepted at the level 0.61.<br>Check: M7 |
| Non-Food – AONCR | Multiplicative<br>Model: (0,1,2)(0,1,1)<br>With transformation - none<br>F-Value: 2.861<br>MAVS: 3x5 MA<br>MAVTC: 9-term MA | Accepted at the level 0.77.<br>Check: M7, M8, M10, and M11 |

| Series Name/ Geographic Area Covered | Statistical Models/Options | Summary Measures |
|---|---|---|
| Clothing and Footwear - PHILS | Additive<br>Model: (2,1,0)(0,1,1)<br>With transformation - none<br>F-value: 5.172<br>MAVS: 3X5 MA<br>MAVTC: 9-term MA | Accepted at the level 0.53.<br>Check: M7, M8, M10, and M11 |
| Clothing and Footwear - NCR | Additive<br>Model: (2,1,0)(0,1,1)<br>With transformation - none<br>F-value: 2.955<br>MAVS: 3X5 MA<br>MAVTC: 9-term MA | Accepted at the level 0.72.<br>Check: M7, M8, M10, and M11 |
| Clothing and Footwear - AONCR | Additive<br>Model: (2,1,0)(0,1,1)<br>With transformation - none<br>F-value: 4.353<br>MAVS: 3X3 MA<br>MAVTC: 9-term MA | Accepted at the level 0.74.<br>Check: M7, M8, M9, M10, and M11 |
| Housing, Water, Electricity, Gas and Other Fuels - PHILS | Additive<br>Model: (0,1,2)(0,1,1)<br>With transformation - none<br>F-value: 7.657<br>MAVS: 3X5 MA<br>MAVTC: 9-term MA | Accepted at the level 0.55.<br>Check: M8, M10, and M11 |
| Housing, Water, Electricity, Gas and Other Fuels - NCR | Additive<br>Model: (0,1,1)(0,1,1)<br>With transformation - none<br>F-value: 5.662<br>MAVS: 3X9 MA<br>MAVTC: 13-term MA | Accepted at the level 0.77.<br>Check: M1 and M7 |

| Series Name/ Geographic Area Covered | Statistical Models/Options | Summary Measures |
|---|---|---|
| Housing, Water, Electricity, Gas and Other Fuels - AONCR | Multiplicative Model: (2,1,2)(0,1,1) With transformation - none F-value: 6.635 MAVS: 3X5 MA MAVTC: 9-term MA | Accepted at the level 0.66. Check: M4, M8, M10, and M11 |
| Furnishings, Household Equipment and Routine Household Maintenance - PHILS | Multiplicative Model: (0,1,2)(0,1,1) With transformation - none F-value: 9.882 MAVS: 3X5 MA MAVTC: 9-term MA | Accepted at the level 0.47. Check: M7, M8, M10 and M11 |
| Furnishings, Household Equipment and Routine Household Maintenance – NCR | Multiplicative Model: (0,1,1)(0,1,1) With transformation – none F-value: 8.065 MAVS: 3X5 MA MAVTC: 9-term MA | Accepted at the level 0.65. Check: M7, M8, M9, M10, and M11 |
| Furnishings, Household Equipment and Routine Household Maintenance – AONCR | Additive Model: (0,1,2)(0,1,1) With transformation - none F-value: 6.074 MAVS: 3X5 MA MAVTC: 9-term MA | Accepted at the level 0.52. Check: M7, M8, M9, M10 and M11 |
| Health – PHILS | Additive Model: (2,1,0)(0,1,1) With transformation – none F-value: 10.352 MAVS: 3X5 MA MAVTC: 9-term MA | Accepted at the level 0.47. Check: M8, M10, and M11 |

| Series Name/ Geographic Area Covered | Statistical Models/Options | Summary Measures |
|---|---|---|
| Health – NCR | Additive<br>None of the models were chosen.<br>With transformation - none<br>F-value: 12.488<br>MAVS: 3X5 MA<br>MAVTC: 9-term MA | Accepted at the level 0.47.<br>Check: M8 and M10 |
| Health – AONCR | Multiplicative<br>Model: (2,1,0)(0,1,1)<br>With transformation - none<br>F-value: 5.988<br>MAVS: 3X5 MA<br>MAVTC: 9-term MA | Accepted at the level 0.59.<br>Check: M8, M9, M10, and M11 |
| Information and Communication – AONCR | Additive<br>Model: (2,1,0)(0,1,1)<br>With transformation - none<br>F-value: 3.306<br>MAVS: 3X5 MA<br>MAVTC: 9-term MA | Accepted at the level 0.67.<br>Check: M7, M8, M10, and M11 |
| Recreation, Sport and Culture - NCR | Multiplicative<br>Model: (2,1,0)(0,1,1)<br>With transformation - none<br>F-value: 4.225<br>MAVS: 3X3 MA<br>MAVTC: 9-term MA | Conditionally accepted at the level 0.96.<br>Check: M7, M8, M9, M10, and M11 |
| Education Services – PHILS | Additive<br>Model: (2,1,2)(0,1,1)<br>With transformation - none<br>F-value: 21.675<br>MAVS: 3X3 MA<br>MAVTC: 9-term MA | Accepted at the level 0.63.<br>Check: M4, M8, M10, and M11 |
| Education Services – NCR | Additive<br>Model: (0,1,1)(0,1,1)<br>With transformation - none<br>F-value: 15.029<br>MAVS: 3X3 MA<br>MAVTC: 9-term MA | Accepted at the level 0.62.<br>Check: M4, M8, M10, and M11 |

| Series Name/ Geographic Area Covered | Statistical Models/Options | Summary Measures |
|---|---|---|
| Education Services - AONCR | Additive<br>Model: (2,1,0)(0,1,1)<br>With transformation - none<br>F-value: 19.866<br>MAVS: 3X3 MA<br>MAVTC: 9-term MA | Accepted at the level 0.69.<br>Check: M4, M6, M8, M9, M10, and M11 |
| Restaurants and Accommodation Services – AONCR | Additive<br>Model: (2,1,0)(0,1,1)<br>With transformation - none<br>F-value: 5.029<br>MAVS: 3X5 MA<br>MAVTC: 9-term MA | Accepted at the level 0.59.<br>Check: M7, M8, M9, M10, and M11 |
| Personal Care, and Miscellaneous Goods and Services – PHILS | Additive<br>Model: (2,1,0)(0,1,1)<br>With transformation - none<br>F-value: 6.665<br>MAVS: 3X5 MA<br>MAVTC: 9-term MA | Accepted at the level 0.64.<br>Check: M7, M8, M9, M10, and M11 |
| Personal Care, and Miscellaneous Goods and Services – NCR | Additive<br>Model: (0,1,1)(0,1,1)<br>With transformation - none<br>F-value: 14.330<br>MAVS: 3X5 MA<br>MAVTC: 9-term MA | Accepted at the level 0.48.<br>Check: M4, M10, and M11 |

Source: Philippine Statistics Authority