Table 4. Summary of Statistical Models Used in the Generation of Seasonally Adjusted CPI: 2024
(2018=100)

Series Name/ Geographic Area Covered	Statistical Models/Options	Summary Measures
All Items – PHILS	Additive Model: (0,1,1)(0,1,1) With transformation - none F-value: 5.591 MAVS: 3x5 MA MAVTC: 9-term MA	Accepted at the level 0.50. Check: M4 and M7
All Items – NCR	Multiplicative Model: (2,1,0)(0,1,1) With transformation - none F-value: 4.151 MAVS: 3x5 MA MAVTC: 9-term MA	Accepted at the level 0.60. Check: M4 and M7
All Items – AONCR	Multiplicative Model: (0,1,2)(0,1,1) With transformation - none F-value: 5.856 MAVS: 3x5 MA MAVTC: 9-term MA	Accepted at the level 0.45. Check: M7
Food and Non-alcoholic Beverages – PHILS	Multiplicative Model: (2,1,2)(0,1,1) With transformation - none F-value: 9.753 MAVS: 3x5 MA MAVTC: 9-term MA	Accepted at the level 0.49. Check: M4
Food and Non-alcoholic Beverages – NCR	Multiplicative Model: (2,1,0)(0,1,1) With transformation - none F-value: 9.255 MAVS: 3x5 MA MAVTC: 9-term MA	Accepted at the level 0.52. Check: M4

Series Name/ Geographic Area Covered	Statistical Models/Options	Summary Measures
Food and Non-alcoholic Beverages – AONCR	Multiplicative Model: (0,1,1)(0,1,1) With transformation - none F-value: 9.308 MAVS: 3x5 MA MAVTC: 9-term MA	Accepted at the level 0.46.
Clothing and Footwear - PHILS	Multiplicative Model: (2,1,0)(0,1,1) With transformation - none F-value: 4.751 MAVS: 3X5 MA MAVTC: 9-term MA	Accepted at the level 0.58. Check: M7, M8, M9, M10, and M11
Clothing and Footwear - AONCR	Multiplicative Model: (2,1,0)(0,1,1) With transformation - none F-value: 4.018 MAVS: 3X5 MA MAVTC: 9-term MA	Accepted at the level 0.59. Check: M7, M8, M9, M10, and M11
Housing, Water, Electricity, Gas and Other Fuels - PHILS	Multiplicative Model: (0,1,1)(0,1,1) With transformation - none F-value: 6.158 MAVS: 3X5 MA MAVTC: 9-term MA	Accepted at the level 0.63. Check: M4, M7, M8, M10, and M11
Housing, Water, Electricity, Gas and Other Fuels - NCR	Additive Model: (2,1,2)(0,1,1) With transformation - none F-value: 3.848 MAVS: 3X5 MA MAVTC: 9-term MA	Accepted at the level 0.62. Check: M7, M8, M9, M10, and M11
Housing, Water, Electricity, Gas and Other Fuels - AONCR	Multiplicative Model: (0,1,1)(0,1,1) With transformation - none F-value: 5.607 MAVS: 3X5 MA MAVTC: 9-term MA	Accepted at the level 0.67. Check: M4, M7, M8, M9, M10, and M11

Series Name/ Geographic Area Covered	Statistical Models/Options	Summary Measures
Furnishings, Household Equipment and Routine Household Maintenance - PHILS	Multiplicative Model: (0,1,1)(0,1,1) With transformation - none F-value: 9.489 MAVS: 3X5 MA MAVTC: 9-term MA	Accepted at the level 0.46. Check: M8, M9, M10 and M11
Furnishings, Household Equipment and Routine Household Maintenance – NCR	Multiplicative Model: (0,1,1)(0,1,1) With transformation – none F-value: 17.445 MAVS: 3X5 MA MAVTC: 9-term MA	Accepted at the level 0.32.
Furnishings, Household Equipment and Routine Household Maintenance – AONCR	Additive Model: (0,1,2)(0,1,1) With transformation - none F-value: 5.216 MAVS: 3X5 MA MAVTC: 9-term MA	Accepted at the level 0.69. Check: M7, M8, M9, M10, and M11
Health – PHILS	Additive Model: (2,1,2)(0,1,1) With transformation – none F-value: 7.083 MAVS: 3X3 MA MAVTC: 9-term MA	Accepted at the level 0.72. Check: M8, M9, M10, and M11
Health – NCR	Multiplicative Model: (0,1,2)(0,1,1) With transformation - none F-value: 4.262 MAVS: 3X5 MA MAVTC: 9-term MA	Accepted at the level 0.77. Check: M7, M8, M9, M10, and M11

Series Name/ Geographic Area Covered	Statistical Models/Options	Summary Measures
Health – AONCR	Additive Model: (0,1,1)(0,1,1) With transformation - none F-value: 6.146 MAVS: 3X3 MA MAVTC: 9-term MA	Accepted at the level 0.78. Check: M8, M9, M10, and M11
Transport – Philippines	Additive Model: (2,1,0)(0,1,1) With transformation - none F-value: 4.297 MAVS: 3X5 MA MAVTC: 9-term MA	Accepted at the level 0.64. Check: M6 and M7
Transport – AONCR	Additive Model: (2,1,0)(0,1,1) With transformation - none F-value: 3.911 MAVS: 3X5 MA MAVTC: 9-term MA	Accepted at the level 0.65. Check: M7, M8, M10, and M11
Education Services - AONCR	Multiplicative Model: (2,1,2)(0,1,1) With transformation - none F-value: 6.551 MAVS: 3X3 MA MAVTC: 9-term MA	Conditionally accepted at the level 0.83. Check: M4, M7, M8, M9, M10, and M11
Personal Care, and Miscellaneous Goods and Services – PHILS	Multiplicative Model: (2,1,0)(0,1,1) With transformation - none F-value: 10.633 MAVS: 3X5 MA MAVTC: 9-term MA	Accepted at the level 0.44. Check: M8, M9, M10, and M11
Personal Care, and Miscellaneous Goods and Services – NCR	Additive Model: (2,1,2)(0,1,1) With transformation - none F-value: 13.808 MAVS: 3X5 MA MAVTC: 9-term MA	Accepted at the level 0.40. Check: M8, M9, M10, and M11

Source: Philippine Statistics Authority