

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

August 2021 – August 2022

Series Name/ Geographic Area Covered	Statistical Models/Options	Summary Measures
All Items – PHILS	Multiplicative Model: (0,1,2)(0,1,1) With transformation - none F-value: 4.705 MAVS: 3x5 MA MAVTC: 9-term MA	Accepted at the level 0.79. Check: M4, M7, M8, M9, M10, and M11
All Items – NCR	Additive Model: (0,1,1)(0,1,1) With transformation - none F-value: 1.346 MAVS: 3x5 MA MAVTC: 9-term MA	Conditionally rejected at the level 1.12. Check: M7, M8, M9, M10, and M11
All Items – AONCR	Multiplicative Model: (0,1,1)(0,1,1) With transformation - none F-value: 4.894 MAVS: 3x5 MA MAVTC: 9-term MA	Accepted at the level 0.71. Check: M7, M8, M9, M10, and M11
Food and Non- alcoholic Beverages – PHILS	Multiplicative Model: (2,1,2)(0,1,1) With transformation - none F-value: 11.153 MAVS: 3x5 MA MAVTC: 9-term MA	Accepted at the level 0.63. Check: M8, M9, M10, and M11
Food and Non- alcoholic Beverages – NCR	Multiplicative Model: (0,1,1)(0,1,1) With transformation - none F-value: 11.036 MAVS: 3x5 MA MAVTC: 9-term MA	Accepted at the level 0.57. Check: M8, M10, and M11

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Food and Non- alcoholic Beverages – AONCR	Multiplicative Model: (2,1,2)(0,1,1) With transformation - none F-value: 9.997 MAVS: 3x5 MA MAVTC: 9-term MA	Accepted at the level 0.64. Check: M8, M9, M10, and M11
Alcoholic Beverages and Tobacco – PHILS	Additive Model: (2,1,2)(0,1,1) With transformation - none F-value: 14.583 MAVS: 3x5 MA MAVTC: 9-term MA	Accepted at the level 0.48. Check: M4 and M11
Alcoholic Beverages and Tobacco – NCR	Additive Model: (0,1,1)(0,1,1) With transformation - none F-value: 15.549 MAVS: 3x5 MA MAVTC: 9-term MA	Accepted at the level 0.50. Check: M4, M8, M10, and M11
Alcoholic Beverages and Tobacco – AONCR	Additive Model: (2,1,2)(0,1,1) With transformation - none F-value: 13.771 MAVS: 3x5 MA MAVTC: 9-term MA	Accepted at the level 0.46. Check: M4
Non-Food – PHILS	Multiplicative Model: (2,1,0)(0,1,1) With transformation - none F-Value: 3.530 MAVS: 3x5 MA MAVTC: 9-term MA	Accepted at the level 0.69. Check: M7, M8, M9, M10, and M11
Non-Food – NCR	Multiplicative Model: (0,1,2)(0,1,1) With transformation - none F-Value: 2.766 MAVS: 3x9 MA MAVTC: 9-term MA	Accepted at the level 0.69. Check: M7

Series Name/ Geographic Area Covered	Statistical Models/Options	Summary Measures
Non-Food – AONCR	Multiplicative Model: (0,1,2)(0,1,1) With transformation - none F-Value: 3.465 MAVS: 3x5 MA MAVTC: 9-term MA	Conditionally accepted at the level 0.77. Check: M7, M8, M9, M10, and M11
Clothing and Footwear - PHILS	Additive Model: (0,1,2)(0,1,1) With transformation - none F-value: 4.213 MAVS: 3X5 MA MAVTC: 9-term MA	Accepted at the level 0.75. Check: M7, M8, M9, M10, and M11
Clothing and Footwear - NCR	Additive Model: (2,1,2)(0,1,1) With transformation - none F-value: 2.620 MAVS: 3X5 MA MAVTC: 9-term MA	Accepted at the level 0.80. Check: M7, M8, M9, M10, and M11
Clothing and Footwear - AONCR	Additive Model: (0,1,1)(0,1,1) With transformation - none F-value: 4.225 MAVS: 3X3 MA MAVTC: 9-term MA	Conditionally accepted at the level 0.81. Check: M7, M8, M9, M10, and M11
Housing, Water, Electricity, Gas and Other Fuels - PHILS	Multiplicative Model: (0,1,2)(0,1,1) With transformation - none F-value: 5.994 MAVS: 3X5 MA MAVTC: 9-term MA	Accepted at the level 0.58. Check: M7, M8, M10, and M11
Housing, Water, Electricity, Gas and Other Fuels - NCR	Additive Model: (2,1,0)(0,1,1) With transformation - none F-value: 4.612 MAVS: 3X9 MA MAVTC: 13-term MA	Conditionally accepted at the level 0.81. Check: M1 and M7

Series Name/ Geographic Area Covered	Statistical Models/Options	Summary Measures
Housing, Water, Electricity, Gas and Other Fuels - AONCR	Additive Model: (0,2,2)(0,1,1) With transformation - none F-value: 5.839 MAVS: 3X5 MA MAVTC: 9-term MA	Accepted at the level 0.68. Check: M4, M8, M9, M10, and M11
Furnishings, Household Equipment and Routine Household Maintenance - PHILS	Additive Model: (0,1,1)(0,1,1) With transformation - none F-value: 10.051 MAVS: 3X5 MA MAVTC: 9-term MA	Accepted at the level 0.45. Check: M8 and M10
Furnishings, Household Equipment and Routine Household Maintenance – NCR	Additive Model: (0,1,1)(0,1,1) With transformation – none F-value: 7.354 MAVS: 3X5 MA MAVTC: 9-term MA	Accepted at the level 0.59. Check: M7, M8, M9, M10, and M11
Furnishings, Household Equipment and Routine Household Maintenance – AONCR	Additive Model: (0,1,1)(0,1,1) With transformation - none F-value: 5.192 MAVS: 3X5 MA MAVTC: 9-term MA	Accepted at the level 0.55. Check: M7, M8, M10 and M11

Series Name/ Geographic Area Covered	Statistical Models/Options	Summary Measures
Health – PHILS	Additive Model: (2,1,0)(0,1,1) With transformation – none F-value: 9.729 MAVS: 3X5 MA MAVTC: 9-term MA	Accepted at the level 0.48. Check: M8, M9, M10, and M11
Health – NCR	Additive Model: (0,1,2)(0,1,1) With transformation - none F-value: 12.760 MAVS: 3X3 MA MAVTC: 9-term MA	Accepted at the level 0.44. Check: none
Health – AONCR	Additive Model: (2,1,0)(0,1,1) With transformation - none F-value: 5.643 MAVS: 3X5 MA MAVTC: 9-term MA	Accepted at the level 0.65. Check: M7, M8, M9, M10, and M11
Information and Communication – NCR	Additive Model: (2,1,2)(0,1,1) With transformation - none F-value: 2.882 MAVS: 3X5 MA MAVTC: 9-term MA	Conditionally accepted at the level 0.85. Check: M4, M7, M8, M10, and M11
Information and Communication – AONCR	Multiplicative Model: (2,1,2)(0,1,1) With transformation - none F-value: 3.297 MAVS: 3X5 MA MAVTC: 9-term MA	Accepted at the level 0.72. Check: M7, M8, M10, and M11
Education Services – PHILS	Additive Model: (2,1,2)(0,1,1) With transformation - none F-value: 21.722 MAVS: 3X3 MA	Accepted at the level 0.61. Check: M4, M6, M8, M10, and M11

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	MAVTC: 9-term MA	
Education Services – NCR	Additive Model: (0,1,1)(0,1,1) With transformation - none F-value: 15.903 MAVS: 3X3 MA MAVTC: 9-term MA	Accepted at the level 0.58. Check: M7, M10, and M11
Education Services - AONCR	Additive Model: (2,1,0)(0,1,1) With transformation - none F-value: 21.306 MAVS: 3X3 MA MAVTC: 9-term MA	Accepted at the level 0.64. Check: M4, M6, M8, M9, M10, and M11
Restaurants and Accommodation Services - PHILS	Additive Model: (2,1,0)(0,1,1) With transformation - none F-value: 2.329 MAVS: 3X5 MA MAVTC: 9-term MA	Conditionally accepted at the level 0.90. Check: M7, M8, M9, M10, and M11
Restaurants and Accommodation Services – NCR	Multiplicative Model: (0,1,1)(0,1,1) With transformation - none F-value: 2.338 MAVS: 3X5 MA MAVTC: 9-term MA	Conditionally rejected at the level 1.08. Check: M7, M8, M9, M10, and M11
Restaurants and Accommodation Services – AONCR	Additive Model: (0,1,1)(0,1,1) With transformation - none F-value: 3.326 MAVS: 3X5 MA MAVTC: 9-term MA	Accepted at the level 0.79. Check: M7, M8, M9, M10, and M11
Personal Care, and Miscellaneous Goods and Services – PHILS	Additive Model: (0,1,1)(0,1,1) With transformation - none F-value: 4.415 MAVS: 3X5 MA MAVTC: 9-term MA	Accepted at the level 0.63. Check: M7, M8, M9, M10, and M11

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Personal Care, and Miscellaneous Goods and Services – NCR	Additive Model: (2,1,0)(0,1,1) With transformation - none F-value: 12.431 MAVS: 3X5 MA MAVTC: 9-term MA	Accepted at the level 0.49. Check: M10 and M11
Personal Care, and Miscellaneous Goods and Services – AONCR	Additive Model: (0,1,1)(0,1,1) With transformation - none F-value: 2.002 MAVS: 3X5 MA MAVTC: 9-term MA	Conditionally accepted at the level 0.80. Check: M7, M8, M9, M10, and M11

Source: Philippine Statistics Authority