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

## October 2022 - October 2023

Series Name/ Geographic Area Covered	Statistical Models/Options	Summary Measures
All Items – PHILS	Additive Model: (0,1,2)(0,1,1) With transformation - none F-value: 5.560 MAVS: 3x5 MA	Accepted at the level 0.80. Check: M4, M7, M8, M9, M10, and M11
All Items – AONCR	MAVTC: 9-term MA  Multiplicative Model: (0,1,1)(0,1,1) With transformation - none F-value: 5.850 MAVS: 3x5 MA MAVTC: 9-term MA	Accepted at the level 0.71. Check: M4, 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: 12.734 MAVS: 3x5 MA MAVTC: 9-term MA	Accepted at the level 0.59. Check: M4, M8, M10, and M11
Food and Non- alcoholic Beverages – NCR	Multiplicative Model: (2,1,2)(0,1,1) With transformation - none F-value: 14.634 MAVS: 3x5 MA MAVTC: 9-term MA	Accepted at the level 0.55. Check: M4, M8, M10, and M11
Food and Non- alcoholic Beverages – AONCR	Multiplicative Model: (2,1,2)(0,1,1) With transformation - none F-value: 11.581 MAVS: 3x5 MA MAVTC: 9-term MA	Accepted at the level 0.60. Check: M4, M8, M10, and M11



Series Name/ Geographic Area Covered	Statistical Models/Options	Summary Measures
Alcoholic Beverages and Tobacco – PHILS	Additive Model: (2,1,0)(0,1,1) With transformation - none F-value: 11.565 MAVS: 3x5 MA MAVTC: 9-term MA	Accepted at the level 0.50. Check: M4, M8, M10, and M11
Alcoholic Beverages and Tobacco – NCR	Additive Model: (0,1,1)(0,1,1) With transformation - none F-value: 11.235 MAVS: 3x5 MA MAVTC: 9-term MA	Accepted at the level 0.60. Check: M4, M8, M10, and M11
Alcoholic Beverages and Tobacco – AONCR	Additive Model: (0,1,1)(0,1,1) With transformation - none F-value: 10.255 MAVS: 3x5 MA MAVTC: 9-term MA	Accepted at the level 0.55. Check: M4, M8, M10, and M11
Non-Food – PHILS	Additive Model: (0,1,2)(0,1,1) With transformation - none F-Value: 2.308 MAVS: 3x5 MA MAVTC: 9-term MA	Conditionally accepted at the level 0.80. Check: M7, M8, M10, and M11
Non-Food – NCR	Multiplicative Model: (0,1,2)(0,1,1) With transformation - none F-Value: 2.924 MAVS: 3x9 MA MAVTC: 9-term MA	Accepted at the level 0.71. Check: M4, M7, M10, and M11
Non-Food – AONCR	Multiplicative Model: (0,1,2)(0,1,1) With transformation - none F-Value: 2.190 MAVS: 3x5 MA MAVTC: 9-term MA	Conditionally accepted at the level 0.85. Check: M7, M8, M9, M10, and M11



Series Name/ Geographic Area Covered	Statistical Models/Options	Summary Measures
Clothing and Footwear - PHILS	Additive Model: (2,1,0)(0,1,1)	Accepted at the level 0.56.
	With transformation - none F-value: 4.674 MAVS: 3X5 MA MAVTC: 9-term MA	Check: M7, M8, M9, and M10
Clothing and	Additive	Accepted at the level
Footwear - NCR	None of the models were	0.71.
	chosen.	Check: M7, M8,
	With transformation - none	M10, and M11
	F-value: 3.076	
	MAVS: 3X5 MA	
Clothing and	MAVTC: 9-term MA Additive	Accepted at the level
Footwear - AONCR	Model: (2,1,0)(0,1,1)	0.81.
1 ootwear 7 torvort	With transformation - none	Check: M7, M8, M9,
	F-value: 3.634	M10, and M11
	MAVS: 3X3 MA	,
	MAVTC: 9-term MA	
Housing, Water,	Additive	Accepted at the level
Electricity, Gas and	Model: (0,1,2)(0,1,1)	0.58.
Other Fuels -	With transformation - none	Check: M8, M10,
PHILS	F-value: 8.212	and M11
	MAVS: 3X5 MA MAVTC: 9-term MA	
Housing, Water,	Additive	Conditionally
Electricity, Gas and	Model: (0,1,1)(0,1,1)	accepted at the level
Other Fuels - NCR	With transformation -	0.79.
	none	Check: M1, M7,
	F-value: 6.160	M10, and M11
	MAVS: 3X9 MA	
	MAVTC: 13-term MA	



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: 7.241 MAVS: 3X5 MA MAVTC: 9-term MA	Accepted at the level 0.65. 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: 9.258 MAVS: 3X5 MA MAVTC: 9-term MA	Accepted at the level 0.54. 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: 8.323 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: (0,1,1)(0,1,1) With transformation - none F-value: 5.392 MAVS: 3X5 MA MAVTC: 9-term MA	Accepted at the level 0.63. Check: M7, M8, M9, M10 and M11
Health – PHILS	Additive Model: (2,1,2)(0,1,1) With transformation – none F-value: 10.482 MAVS: 3X5 MA MAVTC: 9-term MA	Accepted at the level 0.44. Check: M8, M10, and M11

Series Name/	Otatlatlasi	C
Geographic Area	Statistical Models/Options	Summary Measures
Covered Health – NCR	Additive	Accepted at the level
Tieaitii – NOIX	None of the models were	0.46.
	chosen.	Check: M8, M10,
	With transformation - none	and M11
	F-value: 11.915	
	MAVS: 3X5 MA	
	MAVTC: 9-term MA	
Health – AONCR	Multiplicative	Accepted at the level
	Model: (2,1,2)(0,1,1)	0.56.
	With transformation - none F-value: 5.895	Check: M8, M9,
	MAVS: 3X5 MA	M10, and M11
	MAVTC: 9-term MA	
Information and	Additive	Accepted at the level
Communication –	Model: (2,1,2)(0,1,1)	0.72.
AONCR	With transformation -	Check: M7, M8, M9,
	none	M10, and M11
	F-value: 2.948	
	MAVS: 3X5 MA	
Degraption Chart	MAVTC: 9-term MA	Conditionally
Recreation, Sport and Culture - NCR	Multiplicative	Conditionally
and Culture - NCK	Model: (2,1,0)(0,1,1) With transformation -	accepted at the level 0.94.
	none	Check: M7, M8, M9,
	F-value: 4.119	M10, and M11
	MAVS: 3X3 MA	
	MAVTC: 9-term MA	
Education Services	Additive	Accepted at the level
– PHILS	Model: (0,1,2)(0,1,1)	0.65.
	With transformation - none	Check: M4, M8,
	F-value: 19.190	M10, and M11
	MAVS: 3X3 MA	
Education Services	MAVTC: 9-term MA Additive	Accepted at the level
-NCR	Model: (0,1,2)(0,1,1)	0.67.
	With transformation - none	Check: M4, M8,
	F-value: 15.116	M10, and M11
	MAVS: 3X3 MA	
	MAVTC: 9-term MA	

Series Name/ Geographic Area Covered	Statistical Models/Options	Summary Measures
Education Services	Additive	Accepted at the level
- AONCR	Model: (2,1,2)(0,1,1)	0.69.
	With transformation - none	Check: M4, M6, M8,
	F-value: 18.220	M9, M10, and M11
	MAVS: 3X3 MA	
Desta	MAVTC: 9-term MA	A
Restaurants and	Additive	Accepted at the level
Accommodation	Model: (2,1,2)(0,1,1)	0.60.
Services – AONCR	With transformation - none	Check: M7, M8, M9,
	F-value: 5.097 MAVS: 3X5 MA	M10, and M11
	MAVTC: 9-term MA	
Personal Care, and	Additive	Accepted at the level
Miscellaneous	Model: (2,1,0)(0,1,1)	0.76.
Goods and	With transformation - none	Check: M7, M8, M9,
Services – PHILS	F-value: 5.911	M10, and M11
COLVIDOR THIES	MAVS: 3X5 MA	iviro, and iviri
	MAVTC: 9-term MA	
Personal Care, and	Additive	Accepted at the level
Miscellaneous	Model: (0,1,1)(0,1,1)	0.46.
Goods and	With transformation - none	Check: M4 and M10
Services – NCR	F-value: 14.861	
	MAVS: 3X5 MA	
	MAVTC: 9-term MA	

Source: Philippine Statistics Authority

