

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

February 2021 – February 2022

| <b>Series Name/<br/>Geographic Area<br/>Covered</b> | <b>Statistical<br/>Models/Options</b>   | <b>Summary Measures</b>   |
|---|---|---|
| All Items – PHILS                                   | Multiplicative<br>Model: (2,1,2)(0,1,1)<br>With transformation - none<br>F-value: 4.371<br>MAVS: 3x5 MA<br>MAVTC: 9-term MA | Conditionally<br>accepted at the level<br>0.90.<br>Check: M4, M7, M8,<br>M9, M10, and M11 |
| All Items – NCR                                     | Additive<br>Model: (0,1,2)(0,1,1)<br>With transformation - none<br>F-value: 1.661<br>MAVS: 3x5 MA<br>MAVTC: 9-term MA       | Conditionally rejected<br>at the level 1.15.<br>Check: M7, M8, M9,<br>M10, and M11        |
| All Items – AONCR                                   | Multiplicative<br>Model: (2,1,0)(0,1,1)<br>With transformation - none<br>F-value: 4.436<br>MAVS: 3x5 MA<br>MAVTC: 9-term MA | Conditionally<br>accepted at the level<br>0.86.<br>Check: M4, M7, M8,<br>M9, M10, and M11 |
| Food and Non-<br>alcoholic Beverages –<br>PHILS     | Multiplicative<br>Model: (0,1,1)(0,1,1)<br>With transformation - none<br>F-value: 9.168<br>MAVS: 3x5 MA<br>MAVTC: 9-term MA | Accepted at the level<br>0.73.<br>Check: M7, M8, M9,<br>M10, and M11                      |
| Food and Non-<br>alcoholic Beverages –<br>NCR       | Multiplicative<br>Model: (0,1,2)(0,1,1)<br>With transformation - none<br>F-value: 9.535<br>MAVS: 3x5 MA<br>MAVTC: 9-term MA | Accepted at the level<br>0.74.<br>Check: M4, M8, M9,<br>M10, and M11                      |

| Series Name/<br>Geographic Area<br>Covered      | Statistical<br>Models/Options   | Summary Measures  |
|---|---|---|
| Food and Non-<br>alcoholic Beverages –<br>AONCR | Multiplicative<br>Model: (0,1,1)(0,1,1)<br>With transformation - none<br>F-value: 8.511<br>MAVS: 3x5 MA<br>MAVTC: 9-term MA | Accepted at the level<br>0.75.<br>Check: M4, M7, M8,<br>M9, M10, and M11              |
| Alcoholic Beverages<br>and Tobacco – PHILS      | Additive<br>Model: (2,1,2)(0,1,1)<br>With transformation - none<br>F-value: 13.785<br>MAVS: 3x5 MA<br>MAVTC: 9-term MA      | Accepted at the level<br>0.47.<br>Check: M4, M10, and<br>M11                          |
| Alcoholic Beverages<br>and Tobacco – NCR        | Additive<br>Model: (0,1,1)(0,1,1)<br>With transformation - none<br>F-value: 14.150<br>MAVS: 3x5 MA<br>MAVTC: 9-term MA      | Accepted at the level<br>0.50.<br>Check: M4, M8, M10,<br>and M11                      |
| Alcoholic Beverages<br>and Tobacco –<br>AONCR   | Additive<br>Model: (2,1,2)(0,1,1)<br>With transformation - none<br>F-value: 12.611<br>MAVS: 3x5 MA<br>MAVTC: 9-term MA      | Accepted at the level<br>0.48.<br>Check: M4, M10 and<br>M11                           |
| Non-Food – PHILS                                | Multiplicative<br>Model: (2,1,2)(0,1,1)<br>With transformation - none<br>F-Value: 2.014<br>MAVS: 3x5 MA<br>MAVTC: 9-term MA | Conditionally<br>accepted at the level<br>0.79.<br>Check: M7, M8, M9,<br>M10, and M11 |
| Non-Food – NCR                                  | Multiplicative<br>Model: (2,1,2)(0,1,1)<br>With transformation - none<br>F-Value: 2.922<br>MAVS: 3x9 MA<br>MAVTC: 9-term MA | Accepted at the level<br>0.63.<br>Check: M4 and M7                                    |

| Series Name/<br>Geographic Area<br>Covered                     | Statistical<br>Models/Options   | Summary Measures   |
|--|---|--|
| Non-Food – AONCR   | Multiplicative<br>Model: (2,1,0)(0,1,1)<br>With transformation - none<br>F-Value: 1.600<br>MAVS: 3x5 MA<br>MAVTC: 9-term MA | Conditionally accepted<br>at the level 0.97.<br>Check: M7, M8, M9,<br>M10, and M11 |
| Clothing and Footwear<br>- PHILS                               | Additive<br>Model: (2,1,2)(0,1,1)<br>With transformation - none<br>F-value: 4.210<br>MAVS: 3X5 MA<br>MAVTC: 9-term MA       | Accepted at the level<br>0.69.<br>Check: M7, M8, M9,<br>M10, and M11               |
| Clothing and Footwear<br>- NCR                                 | Additive<br>Model: none<br>With transformation - none<br>F-value: 2.521<br>MAVS: 3X5 MA<br>MAVTC: 9-term MA                 | Accepted at the level<br>0.79.<br>Check: M7, M8, M9,<br>M10, and M11               |
| Clothing and Footwear<br>- AONCR                               | Additive<br>Model: (0,1,1)(0,1,1)<br>With transformation - none<br>F-value: 3.636<br>MAVS: 3X3 MA<br>MAVTC: 9-term MA       | Conditionally accepted<br>at the level 0.87.<br>Check: M7, M8, M9,<br>M10, and M11 |
| Housing, Water,<br>Electricity, Gas and<br>Other Fuels - PHILS | Multiplicative<br>Model: (2,1,0)(0,1,1)<br>With transformation - none<br>F-value: 6.946<br>MAVS: 3X5 MA<br>MAVTC: 9-term MA | Accepted at the level<br>0.58<br>Check: M4, M8, M10,<br>and M11                    |
| Housing, Water,<br>Electricity, Gas and<br>Other Fuels - NCR   | Additive<br>Model: (0,1,1)(0,1,1)<br>With transformation -<br>none<br>F-value: 4.783<br>MAVS: 3X9 MA<br>MAVTC: 13-term MA   | Conditionally accepted<br>at the level 0.85.<br>Check: M1 and M7                   |

| Series Name/<br>Geographic Area<br>Covered  | Statistical<br>Models/Options   | Summary Measures   |
|---|---|--|
| Housing, Water,<br>Electricity, Gas and<br>Other Fuels - AONCR                        | Additive<br>Model: (2,1,2)(0,1,1)<br>With transformation -<br>none<br>F-value: 6.269<br>MAVS: 3X5 MA<br>MAVTC: 9-term MA  | Accepted at the level<br>0.63.<br>Check: M4, M8, M10,<br>and M11     |
| Furnishing, Household<br>Equipment and<br>Routine Maintenance<br>of the House - PHILS | Additive<br>Model: (0,1,1)(0,1,1)<br>With transformation -<br>none<br>F-value: 10.077<br>MAVS: 3X5 MA<br>MAVTC: 9-term MA | Accepted at the level<br>0.48<br>Check: M8, M10, and<br>M11          |
| Furnishing, Household<br>Equipment and<br>Routine Maintenance<br>of the House -NCR    | Additive<br>Model: (0,1,1)(0,1,1)<br>With transformation –<br>none<br>F-value: 6.401<br>MAVS: 3X5 MA<br>MAVTC: 9-term MA  | Accepted at the level<br>0.62.<br>Check: M7, M8, M9,<br>M10, and M11 |
| Furnishing, Household<br>Equipment and<br>Routine Maintenance<br>of the House -AONCR  | Additive<br>Model: (0,1,1)(0,1,1)<br>With transformation - none<br>F-value: 5.270<br>MAVS: 3X5 MA<br>MAVTC: 9-term MA     | Accepted at the level<br>0.49.<br>Check: M7, M8, M10,<br>and M11     |
| Health – PHILS  | Additive<br>Model: (0,2,2)(0,1,1)<br>With transformation –<br>none<br>F-value: 9.032<br>MAVS: 3X5 MA<br>MAVTC: 9-term MA  | Accepted at the level<br>0.52<br>Check: M8, M9, M10,<br>and M11      |

| <b>Series Name/<br/>Geographic Area<br/>Covered</b> | <b>Statistical<br/>Models/Options</b>  | <b>Summary Measures</b>  |
|---|--|--|
| Health –NCR   | Additive<br>Model: (0,1,1)(0,1,1)<br>With transformation - none<br>F-value: 13.678<br>MAVS: 3X3 MA<br>MAVTC: 9-term MA         | Accepted at the level<br>0.45.<br>Check: M8  |
| Health – AONCR                                      | Additive<br>Model: (0,2,2)(0,1,1)<br>With transformation - none<br>F-value: 4.961<br>MAVS: 3X5 MA<br>MAVTC: 9-term MA          | Accepted at the level<br>0.76.<br>Check: M7, M8, M9,<br>M10, and M11                   |
| Information and<br>Communication –<br>NCR           | Additive<br>Model: (0,1,1)(0,1,1)<br>With transformation -<br>none<br>F-value: 4.279<br>MAVS: 3X5 MA<br>MAVTC: 9-term MA       | Conditionally accepted<br>at the level 0.84.<br>Check: M4, M7, M8,<br>M9, M10, and M11 |
| Information and<br>Communication –<br>AONCR         | Multiplicative<br>Model: (2,1,0)(0,1,1)<br>With transformation -<br>none<br>F-value: 3.407<br>MAVS: 3X5 MA<br>MAVTC: 9-term MA | Accepted at the level<br>0.72.<br>Check: M7, M8, M9,<br>M10, and M11                   |
| Education Services –<br>PHILS                       | Additive<br>Model: (0,1,1)(0,1,1)<br>With transformation - none<br>F-value: 34.780<br>MAVS: 3X3 MA<br>MAVTC: 9-term MA         | Accepted at the level<br>0.54.<br>Check: M4, M8, M10                                   |
| Education Services –<br>NCR                         | Additive<br>Model: (2,1,2)(0,1,1)<br>With transformation - none<br>F-value: 42.821<br>MAVS: 3X3 MA<br>MAVTC: 9-term MA         | Accepted at the level<br>0.46.<br>Check: M4  |

| <b>Series Name/<br/>Geographic Area<br/>Covered</b>               | <b>Statistical<br/>Models/Options</b>  | <b>Summary Measures</b>  |
|---|--|--|
| Education Services -<br>AONCR                                     | Additive<br>Model: (2,1,2)(0,1,1)<br>With transformation - none<br>F-value: 29.628<br>MAVS: 3X3 MA<br>MAVTC: 9-term MA | Accepted at the level<br>0.50.<br>Check: M4  |
| Restaurants and<br>Accommodation<br>Services - PHILS              | Additive<br>Model: (2,1,0)(0,1,1)<br>With transformation - none<br>F-value: 3.753<br>MAVS: 3X5 MA<br>MAVTC: 9-term MA  | Accepted at the level<br>0.71.<br>Check: M7, M8, M9,<br>M10, and M11               |
| Restaurants and<br>Accommodation<br>Services – NCR                | Multiplicative<br>Model: none<br>With transformation - none<br>F-value: 2.629<br>MAVS: 3X5 MA<br>MAVTC: 9-term MA      | Conditionally accepted<br>at the level 0.97.<br>Check: M7, M8, M9,<br>M10, and M11 |
| Restaurants and<br>Accommodation<br>Services – AONCR              | Additive<br>Model: (0,1,2)(0,1,1)<br>With transformation - none<br>F-value: 3.828<br>MAVS: 3X5 MA<br>MAVTC: 9-term MA  | Accepted at the level<br>0.73.<br>Check: M7, M8, M9,<br>M10, and M11               |
| Personal Care, and<br>Miscellaneous Goods<br>and Services – PHILS | Additive<br>Model: (2,1,2)(0,1,1)<br>With transformation - none<br>F-value: 4.337<br>MAVS: 3X5 MA<br>MAVTC: 9-term MA  | Accepted at the level<br>0.69.<br>Check: M7, M8, M9,<br>M10, and M11               |
| Personal Care, and<br>Miscellaneous Goods<br>and Services – NCR   | Additive<br>Model: (2,1,0)(0,1,1)<br>With transformation - none<br>F-value: 12.534<br>MAVS: 3X5 MA<br>MAVTC: 9-term MA | Accepted at the level<br>0.51.<br>Check: M4, M8, M10,<br>and M11                   |

| <b>Series Name/<br/>Geographic Area<br/>Covered</b>                  | <b>Statistical<br/>Models/Options</b>   | <b>Summary Measures</b>  |
|--|---|--|
| Personal Care, and<br>Miscellaneous Goods<br>and Services –<br>AONCR | Additive<br>Model: (0,1,1)(0,1,1)<br>With transformation - none<br>F-value: 1.528<br>MAVS: 3X5 MA<br>MAVTC: 9-term MA | Conditionally accepted<br>at the level 0.98.<br>Check: M7, M8, M9,<br>M10, and M11 |

Source: Philippine Statistics Authority