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

July 2021 - July 2022

| Series Name/ Geographic Area Covered | Statistical Models/Options | Summary Measures |
| :---: | :---: | :---: |
| All Items - PHILS | Multiplicative <br> Model: $(0,1,2)(0,1,1)$ <br> With transformation - none <br> F-value: 4.857 <br> MAVS: $3 \times 5$ MA <br> MAVTC: 9-term MA | Accepted at the level 0.78 . <br> Check: M4, M7, M8, M9, M10, and M11 |
| All Items - NCR | Additive <br> Model: $(0,1,1)(0,1,1)$ <br> With transformation - none <br> F-value: 1.055 <br> MAVS: $3 \times 5$ MA <br> MAVTC: 9-term MA | Conditionally rejected at the level 1.15. 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: 5.180 <br> MAVS: 3x5 MA <br> MAVTC: 9-term MA | Accepted at the level 0.71 . <br> Check: M4, M7, M8, M9, M10, and M11 |
| Food and Nonalcoholic Beverages PHILS | Multiplicative <br> Model: $(2,1,2)(0,1,1)$ <br> With transformation - none <br> F-value: 11.058 <br> MAVS: $3 \times 5$ MA <br> MAVTC: 9-term MA | Accepted at the level 0.65 . <br> Check: M4, M8, M9, M10, and M11 |
| Food and Nonalcoholic Beverages NCR | Multiplicative <br> Model: (0,1,1)(0,1,1) <br> With transformation - none <br> F-value: 10.836 <br> MAVS: $3 \times 5$ MA <br> MAVTC: 9-term MA | Accepted at the level 0.58 . <br> Check: M8, M10, and M11 |


| Series Namel Geographic Area Covered | Statistical Models/Options | Summary Measures |
| :---: | :---: | :---: |
| Food and Nonalcoholic Beverages AONCR | Multiplicative <br> Model: (2,1,2)(0,1,1) <br> With transformation - none <br> F-value: 10.099 <br> MAVS: $3 \times 5$ MA <br> MAVTC: 9-term MA | Accepted at the level 0.64. <br> Check: M8, M9, M10, and M11 |
| Alcoholic Beverages and Tobacco - PHILS | Additive <br> Model: (2,1,2)(0,1,1) <br> With transformation - none <br> F-value: 14.939 <br> MAVS: $3 \times 5$ MA <br> MAVTC: 9-term MA | Accepted at the level 0.47 . <br> Check: M4, M10, and M11 |
| Alcoholic Beverages and Tobacco - NCR | Additive <br> Model: $(0,1,1)(0,1,1)$ <br> With transformation - none <br> F-value: 15.470 <br> MAVS: $3 \times 5$ MA <br> MAVTC: 9-term MA | Accepted at the level 0.52 . <br> Check: M4, M8, M10, and M11 |
| Alcoholic Beverages and Tobacco AONCR | Additive <br> Model: $(2,1,2)(0,1,1)$ <br> With transformation - none <br> F-value: 14.235 <br> MAVS: $3 \times 5$ MA <br> MAVTC: 9-term MA | Accepted at the level 0.45 . <br> Check: M4 |
| Non-Food - PHILS | Multiplicative <br> Model: $(2,1,0)(0,1,1)$ <br> With transformation - none <br> F-Value: 3.526 <br> MAVS: $3 \times 5$ MA <br> MAVTC: 9-term MA | Accepted at the level 0.65 . <br> Check: M7, M8, M10, and M11 |
| Non-Food - NCR | Multiplicative <br> Model: $(0,1,2)(0,1,1)$ <br> With transformation - none <br> F-Value: 3.274 <br> MAVS: $3 \times 9$ MA <br> MAVTC: 9-term MA | Accepted at the level 0.60 . <br> Check: M4 and M7 |

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| Series Namel Geographic Area Covered | Statistical Models/Options | Summary Measures |
| :---: | :---: | :---: |
| Non-Food - AONCR | Multiplicative <br> Model: (0,1,2)(0,1,1) <br> With transformation - none <br> F-Value: 3.103 <br> MAVS: 3x5 MA <br> MAVTC: 9-term MA | Conditionally accepted at the level 0.81. Check: M4, M7, M8, M9, M10, and M11 |
| Clothing and Footwear <br> - PHILS | Additive <br> Model: $(2,1,2)(0,1,1)$ <br> With transformation - none <br> F-value: 3.998 <br> MAVS: 3X5 MA <br> MAVTC: 9-term MA | Accepted at the level 0.75 . <br> Check: M7, M8, M9, M10, and M11 |
| Clothing and Footwear - NCR | Additive <br> Model: none <br> With transformation - none <br> F-value: 2.749 <br> MAVS: 3X5 MA <br> MAVTC: 9-term MA | Accepted at the level 0.78 . <br> Check: M7, M8, M9, M10, and M11 |
| Clothing and Footwear - AONCR | Additive <br> Model: $(0,1,1)(0,1,1)$ <br> With transformation - none <br> F-value: 4.384 <br> MAVS: 3X3 MA <br> MAVTC: 9-term MA | Conditionally accepted at the level 0.78. Check: M7, M8, M9, M10, and M11 |
| Housing, Water, Electricity, Gas and Other Fuels - PHILS | Multiplicative <br> Model: (0,1,2)(0,1,1) <br> With transformation - none <br> F-value: 7.426 <br> MAVS: 3X5 MA <br> MAVTC: 9-term MA | Accepted at the level 0.50 . <br> Check: M8 and M10 |
| Housing, Water, Electricity, Gas and Other Fuels - NCR | Additive <br> Model: $(2,1,0)(0,1,1)$ <br> With transformation - <br> none <br> F-value: 4.989 <br> MAVS: 3X9 MA <br> MAVTC: 13-term MA | Conditionally accepted at the level 0.80 . Check: M1 and M7 |


| Series Namel <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: 6.204 <br> MAVS: 3X5 MA <br> MAVTC: 9-term MA | Accepted at the level <br> 0.64. <br> Check: M4, M8, M10, <br> and M11 |
| Furnishings, <br> Household Equipment <br> and Routine <br> Household <br> Maintenance - PHILS | Additive <br> Model: (0,1,1)(0,1,1) <br> With transformation - <br> none <br> F-value: 9.920 <br> MAVS: 3X5 MA <br> MAVTC: 9-term MA | Accepted at the level <br> 0.43. <br> Check: M8 and M10 |
| Furnishings, <br> Household Equipment <br> and Routine <br> Household <br> Maintenance - NCR | Additive <br> Model: (0,1,1)(0,1,1) <br> With transformation - <br> none <br> F-value: 7.317 <br> MAVS: 3X5 MA <br> MAVTC: 9-term MA | Accepted at the level <br> 0.59. <br> Check: M7, M8, M9, <br> M10, and M11 |
| Furnishings, <br> Household Equipment <br> and Routine <br> Household <br> Maintenance - <br> AONCR | Additive <br> Model: (0,1,1)(0,1,1) <br> With transformation - none <br> F-value: 5.207 <br> MAVS: 3X5 MA <br> MAVTC: 9-term MA | Accepted at the level |
| Check: M7, M8, M10 |  |  |
| and M11 |  |  |


| Series Namel Geographic Area Covered | Statistical Models/Options | Summary Measures |
| :---: | :---: | :---: |
| Health - PHILS | Additive <br> Model: $(2,1,0)(0,1,1)$ <br> With transformation - <br> none <br> F-value: 9.598 <br> MAVS: 3X5 MA <br> MAVTC: 9-term MA | Accepted at the level 0.48 . <br> Check: M8, M10, and M11 |
| Health - NCR | Additive <br> Model: $(0,1,1)(0,1,1)$ <br> With transformation - none <br> F-value: 12.726 <br> MAVS: 3X3 MA <br> MAVTC: 9-term MA | Accepted at the level 0.44 . <br> Check: none |
| Health - AONCR | Additive <br> Model: $(2,1,2)(0,1,1)$ <br> With transformation - none <br> F-value: 5.685 <br> MAVS: 3X5 MA <br> MAVTC: 9-term MA | Accepted at the level 0.66 <br> Check: M7, M8, M9, M10, and M11 |
| Information and Communication NCR | Additive <br> Model: (2,1,2)(0,1,1) <br> With transformation - <br> none <br> F-value: 2.766 <br> MAVS: 3X5 MA <br> MAVTC: 9-term MA | Conditionally accepted at the level 0.92. Check: M4, M7, M8, M9, M10, and M11 |
| Information and Communication AONCR | Multiplicative <br> Model: $(0,1,1)(0,1,1)$ <br> With transformation - <br> none <br> F-value: 3.477 <br> MAVS: 3X5 MA <br> MAVTC: 9-term MA | Accepted at the level 0.69 . <br> Check: M7, M8, M10, and M11 |
| Education Services PHILS | Additive <br> Model: $(2,1,2)(0,1,1)$ <br> With transformation - none <br> F-value: 25.693 <br> MAVS: 3X3 MA | Accepted at the level 0.66 <br> Check: M4, M6, M8, M9, M10, and M11 |


| Series Namel Geographic Area Covered | Statistical Models/Options | Summary Measures |
| :---: | :---: | :---: |
|  | MAVTC: 9-term MA |  |
| Education Services NCR | Additive <br> Model: $(2,1,2)(0,1,1)$ <br> With transformation - none <br> F-value: 30.048 <br> MAVS: 3X3 MA <br> MAVTC: 9-term MA | Accepted at the level 0.63 . <br> Check: M4, M8, M9, M10 and M11 |
| Education Services AONCR | Additive <br> Model: $(2,1,2)(0,1,1)$ <br> With transformation - none <br> F-value: 22.755 <br> MAVS: 3X3 MA <br> MAVTC: 9-term MA | Accepted at the level 0.65 . <br> Check: M4, M6, M8, M9, M10, and M11 |
| Restaurants and Accommodation Services - PHILS | Additive <br> Model: (2,1,0)(0,1,1) <br> With transformation - none <br> F-value: 3.145 <br> MAVS: 3X5 MA <br> MAVTC: 9-term MA | Conditionally accepted at the level 0.86 . Check: M7, M8, M9, M10, and M11 |
| Restaurants and Accommodation Services - NCR | Multiplicative <br> Model: (2,1,0)(0,1,1) <br> With transformation - none <br> F-value: 3.032 <br> MAVS: 3X5 MA <br> MAVTC: 9-term MA | Conditionally rejected at the level 1.11. Check: M7, 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: 3.401 <br> MAVS: 3X5 MA <br> MAVTC: 9-term MA | Accepted at the level 0.77 . <br> Check: M7, M8, M9, M10, and M11 |
| Personal Care and Miscellaneous Goods and Services - PHILS | Additive <br> Model: $(0,1,1)(0,1,1)$ <br> With transformation - none <br> F-value: 5.103 <br> MAVS: 3X5 MA <br> MAVTC: 9-term MA | Accepted at the level 0.59. <br> Check: M7, M8, M9, M10, and M11 |


| Series Namel <br> Geographic Area <br> Covered | Statistical <br> Models/Options | Summary Measures |
| :--- | :--- | :--- |
| 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: 14.128 <br> MAVS: 3X5 MA <br> MAVTC: 9-term MA | Accepted at the level <br> 0.50. <br> Check: M10 and M11 |
| Personal Care and <br> Miscellaneous Goods <br> and Services - | Additive <br> Model: (0,2,2)(0,1,1) <br> With transformation - none <br> F-value: 1.965 <br> MAVS: 3X5 MA | Conditionally accepted <br> at the level 0.81. <br> Check: M7, M8, M9, <br> M10, and M11 |

Source: Philippine Statistics Authority

