Table 4. Summary of Statistical Models Used in the Generation of Seasonally Adjusted CPI
(2012=100)
January 2012 - August 2021

| Series Name/ Geographic Area Covered | Statistical Models/Options | Summary Measures |
| :---: | :---: | :---: |
| All Items - PHILS | Multiplicative <br> Model: ( $0,1,1$ ) ( $0,1,1$ ) <br> With transformation - none <br> F-value: 3.598 <br> MAVS: $3 \times 5$ MA <br> MAVTC: 9-term MA | Accepted at level 0.94 Check: M4, M7, M8, M9, M10, M11 |
| All Items - NCR | Additive <br> Model: $(0,1,1)(0,1,1)$ <br> With transformation - none <br> F-value: 1.230 <br> MAVS: $3 \times 5$ MA <br> MAVTC: 9-term MA | Rejected at level 1.34 Check: M1, M4, M7, M8, M9, M10, M11 |
| All Items - AONCR | Multiplicative <br> Model: ( $0,1,1$ ) ( $0,1,1$ ) <br> With transformation - none <br> F-value: 2.161 <br> MAVS: $3 \times 5$ MA <br> MAVTC: 9-term MA | Conditionally rejected at level 1.18 Check: M4, M7, M8, M9, M10, M11 |
| Food and Nonalcoholic Beverages PHILS | Multiplicative <br> Model: (2,1,2)(0,1,1)) <br> With transformation - none <br> F-value: 8.735 <br> MAVS: $3 \times 5$ MA <br> MAVTC: 9-term MA | Accepted at level 0.70 Check: M8, M9, M10, M11 |
| Food and Nonalcoholic Beverages NCR | Multiplicative <br> Model: $(2,1,2)(0,1,1)$ <br> With transformation - none <br> F-value: 6.913 <br> MAVS: $3 \times 5$ MA <br> MAVTC: 9 -term MA | Accepted at level 0.88 Check: M4, M7, M8, M9, M10, M11 |

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| Series Name/ 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: 5.499 <br> MAVS: $3 \times 5$ MA <br> MAVTC: 9-term MA | Conditionally accepted at level 0.82 Check: M1, M7, M8, M9, M10, M11 |
| Alcoholic Beverages and Tobacco - PHILS | Additive <br> Model: $(0,2,2)(0,1,1)$ <br> With transformation - none <br> F-value: 14.081 <br> MAVS: $3 \times 5$ MA <br> MAVTC: 9-term MA | Accepted at level 0.45 Check: M4, M10, M11 |
| Alcoholic Beverages and Tobacco - NCR | Multiplicative <br> Model: $(2,1,2)(0,1,1)$ <br> With transformation - none <br> F-value: 10.862 <br> MAVS: $3 \times 5$ MA <br> MAVTC: 9-term MA | Accepted at level 0.64 Check: M4, M9, M10, M11 |
| Alcoholic Beverages and Tobacco AONCR | Additive <br> Model: $(0,1,2)(0,1,1)$ <br> With transformation - none <br> F-value: 9.156 <br> MAVS: $3 \times 5$ MA <br> MAVTC: 9-term MA | Accepted at level 0.56 Check: M4, M8, M10, M11 |
| Non-Food - PHILS | Additive <br> Model: $(0,1,1)(0,1,1)$ <br> With transformation - none <br> F-Value: 2.143 <br> MAVS: $3 \times 5$ MA <br> MAVTC: 9-term MA | Accepted at level 0.81 Check: M7, M8, M9, M10, M11 |
| Non-Food - NCR | Additive <br> Model: $(0,1,1)(0,1,1)$ <br> With transformation - none <br> F-Value: 1.944 <br> MAVS: 3x9 MA <br> MAVTC: 9-term MA | Accepted at level 0.84 Check: M1, M4, M6, M7 |


| Series Name/ Geographic Area Covered | Statistical Models/Options | Summary Measures |
| :---: | :---: | :---: |
| Non-Food - AONCR | Additive <br> Model: $(0,1,1)(0,1,1)$ <br> With transformation - none <br> F-Value: 1.135 <br> MAVS: $3 \times 5$ MA <br> MAVTC: 9-term MA | Conditionally accepted at level 1.07 <br> Check: M4, M7, M8, M9, M10, M11 |
| Clothing and Footwear - PHILS | Multiplicative <br> Model: (0,1,2)(0,1,1) <br> With transformation - none <br> F-value: 4.363 <br> MAVS: 3X5 MA <br> MAVTC: 9-term MA | Accepted at level 0.79 Check: M7, M8, M9, M10, M11 |
| Clothing and Footwear - NCR | Additive <br> Model: None <br> With transformation - none <br> F-value: 1.737 <br> MAVS: 3X5 MA <br> MAVTC: 9-term MA | Accepted at level 0.97 Check: M4, M7, M8, M9, M10, M11 |
| Clothing and Footwear - AONCR | Additive <br> Model: $(0,1,2)(0,1,1)$ <br> With transformation - none <br> F-value: 2.873 <br> MAVS: 3X3 MA <br> MAVTC: 9-term MA | Conditionally accepted at level 0.97 <br> Check: M7, M8, M9, M10, M11 |
| Housing, Water, Electricity, Gas and Other Fuels - PHILS | Additive <br> Model: $(0,1,2)(0,1,1)$ <br> With transformation - none <br> F-value: 4.832 <br> MAVS: 3X5 MA <br> MAVTC: 9-term MA | Accepted at level 0.81 Check: M1, M4, M7 |
| Housing, Water, Electricity, Gas and Other Fuels - NCR | Additive <br> Model: $(0,1,1)(0,1,1)$ <br> With transformation - <br> none <br> F-value: 4.719 <br> MAVS: 3X9 MA <br> MAVTC: 13-term MA | Accepted at level 0.99 Check: M1, M4, M6, M7 |


| Series Name/ Geographic Area Covered | Statistical Models/Options | Summary Measures |
| :---: | :---: | :---: |
| Housing, Water, Electricity, Gas and Other Fuels - AONCR | Additive <br> Model: $(0,1,2)(0,1,1)$ <br> With transformation - <br> none <br> F-value: 3.906 <br> MAVS: 3X5 MA <br> MAVTC: 9-term MA | Conditionally accepted at level 0.88 <br> Check: M1, M4, M7, M10, M11 |
| Furnishing, Household Equipment and Routine Maintenance of the House -PHILS | Additive <br> Model: $(2,1,2)(0,1,1)$ <br> With transformation - <br> none <br> F-value: 6.040 <br> MAVS: 3X5 MA <br> MAVTC: 9-term MA | Accepted at level 0.56 Check: M7, M8, M10, M11 |
| Furnishing, Household Equipment and Routine Maintenance of the House -NCR | Additive <br> Model: $(0,1,1)(0,1,1)$ <br> With transformation - <br> none <br> F-value: 3.347 <br> MAVS: 3X5 MA <br> MAVTC: 9-term MA | Conditionally rejected at level 1.01 <br> Check: M4, M7, M8, M9, M10, M11 |
| Furnishing, Household Equipment and Routine Maintenance of the House -AONCR | Additive <br> Model: $(0,2,2)(0,1,1)$ <br> With transformation - none <br> F-value: 2.952 <br> MAVS: 3X5 MA <br> MAVTC: 9-term MA | Accepted at level 0.70 Check: M7, M8, M10, M11 |
| Health - PHILS | Multiplicative <br> Model: (2,1,0)(0,1,1) <br> With transformation - <br> none <br> F-value: 7.165 <br> MAVS: 3X5 MA <br> MAVTC: 9-term MA | Accepted at level 0.59 Check: M8, M9, M10, M11 |


| Series Name/ Geographic Area Covered | Statistical Models/Options | Summary Measures |
| :---: | :---: | :---: |
| Health -NCR | Multiplicative <br> Model: (0,1,2)(0,1,1) <br> With transformation - none <br> F-value: 12.684 <br> MAVS: 3X3 MA <br> MAVTC: 9-term MA | Accepted at level 0.53 Check: M8, M10, M11 |
| Health - AONCR | Additive <br> Model: $(2,1,0)(0,1,1)$ <br> With transformation - none <br> F-value: 3.301 <br> MAVS: 3X5 MA <br> MAVTC: 9-term MA | Accepted at level 0.72 Check: M7, M8, M9, M10, M11 |
| Transport - NCR | Multiplicative <br> Model: $(2,1,0)(0,1,1)$ <br> With transformation - <br> none <br> F-value: 2.191 <br> MAVS: 3X5 MA <br> MAVTC: 9-term MA | Accepted at level 0.92 Check: M1, M4, M6, M7 |
| Recreation and Culture - PHILS | Multiplicative <br> Model: (2,1,2)(0,1,1) <br> With transformation none <br> F-value: 3.168 <br> MAVS: 3X3 MA <br> MAVTC: 9-term MA | Conditionally rejected at level 1.11 <br> Check: M4, M7, M8, M9, M10 |
| Recreation and Culture - NCR | Additive <br> Model: $(2,1,2)(0,1,1)$ <br> With transformation none <br> F-value: 6.049 <br> MAVS: 3X3 MA <br> MAVTC: 9-term MA | Accepted at level 0.78 Check: M4, M7, M8, M9, M10, M11 |
| Recreation and Culture - AONCR | Additive <br> Model: (2,1,2)(0,1,1) <br> With transformation -none <br> F-value: 2.743 <br> MAVS: 3X3 MA <br> MAVTC: 9-term MA | Conditionally accepted at level 0.99 <br> Check: M4, M7, M8, M9, M10, M11 |


| Series Name/ Geographic Area Covered | Statistical Models/Options | Summary Measures |
| :---: | :---: | :---: |
| Education - PHILS | Additive <br> Model: $(2,1,0)(0,1,1)$ <br> With transformation - none <br> F-value: 9.994 <br> MAVS: 3X3 MA <br> MAVTC: 9-term MA | Accepted at level 0.72 Check: M4, M8, M9, M10, M11 |
| Education -NCR | Multiplicative <br> Model: $(2,1,0)(0,1,1)$ <br> With transformation - none <br> F-value: 29.338 <br> MAVS: 3X3 MA <br> MAVTC: 9-term MA | Accepted at level 0.59 Check: M4 |
| Education - AONCR | Additive <br> Model: $(0,1,2)(0,1,1)$ <br> With transformation - none <br> F-value: 6.335 <br> MAVS: 3X3 MA <br> MAVTC: 9-term MA | Conditionally accepted at level 0.81 Check: M4, M7, M8, M9, M10, M11 |
| Restaurant and Miscellaneous Goods and Services - PHILS | Additive <br> Model: $(2,1,0)(0,1,1)$ <br> With transformation - none <br> F-value: 1.924 <br> MAVS: 3X5 MA <br> MAVTC: 9 -term MA | Accepted at level 0.73 Check: M7, M8, M9, M10, M11 |
| Restaurant and Miscellaneous Goods and Services NCR | Multiplicative <br> Model: $(2,1,2)(0,1,1)$ <br> With transformation - none <br> F-value: 2.597 <br> MAVS: 3X5 MA <br> MAVTC: 9-term MA | Accepted at level 0.89 Check: M1, M7, M8, M9, M10, M11 |
| Restaurant and Miscellaneous Goods and Services AONCR | Additive <br> Model: $(2,1,2)(0,1,1)$ <br> With transformation - none <br> F-value: 1.396 <br> MAVS: 3X5 MA <br> MAVTC: 9-term MA | Conditionally accepted at level 0.98 Check: M7, M8, M9, M10, M11 |

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[^0]:    Source: Philippine Statistics Authority

