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

January 2012 - March 2021

| Series Name/ Geographic Area Covered | Statistical Models/Options | Summary Measures |
| :---: | :---: | :---: |
| All Items - PHILS | Multiplicative <br> Model: $(2,1,0)(0,1,1)$ <br> With transformation - none <br> F-value: 3.077 <br> MAVS: $3 \times 5$ MA <br> MAVTC: 9-term MA | Accepted at level 0.97 Check: M7, M8, M9, M10, M11 |
| All Items - NCR | Additive <br> Model: $(0,1,2)(0,1,1)$ <br> With transformation - none <br> F-value: 1.269 <br> MAVS: $3 \times 5$ MA <br> MAVTC: 9-term MA | Rejected at level 1.12 Check: M7, M8, M9, M10, M11 |
| All Items - AONCR | Multiplicative <br> Model: ( $0,1,1$ )(0,1,1) <br> With transformation - none <br> F-value: 3.007 <br> MAVS: $3 \times 5$ MA <br> MAVTC: 9-term MA | Accepted at level 0.97 Check: M4, M7, M8, M9, M10, M11 |
| Food and Nonalcoholic Beverages PHILS | Multiplicative <br> Model: ( $0,1,2$ )(0,1,1) <br> With transformation - none <br> F-value: 8.014 <br> MAVS: $3 \times 5$ MA <br> MAVTC: 9-term MA | Accepted at level 0.65 Check: M8, M9, M10, M11 |
| Food and Nonalcoholic Beverages NCR | Multiplicative <br> Model: (0,1,2)(0,1,1) <br> With transformation - none <br> F-value: 8.215 <br> MAVS: $3 \times 5$ MA <br> MAVTC: 9-term MA | Accepted at level 0.76 Check: M7, M8, M9, M10, M11 |


| Series Name/ Geographic Area Covered | Statistical Models/Options | Summary Measures |
| :---: | :---: | :---: |
| Food and Nonalcoholic Beverages AONCR | Multiplicative <br> Model: ( $0,1,2$ )(0,1,1) <br> With transformation - none <br> F-value: 7.272 <br> MAVS: $3 \times 5$ MA <br> MAVTC: 9-term MA | Accepted at level 0.69 Check: M7, M8, M9, M10, M11 |
| Alcoholic Beverages and Tobacco - PHILS | Additive <br> Model: $(2,1,0)(0,1,1)$ <br> With transformation - none <br> F-value: 12.515 <br> MAVS: $3 \times 5$ MA <br> MAVTC: 9-term MA | Accepted at level 0.48 Check: M4, M10, M11 |
| Alcoholic Beverages and Tobacco - NCR | Multiplicative <br> Model: ( $0,1,2$ )(0,1,1) <br> With transformation - none <br> F-value: 14.231 <br> MAVS: $3 \times 5 \mathrm{MA}$ <br> MAVTC: 9-term MA | Accepted at level 0.45 Check: M8, M10, M11 |
| Alcoholic Beverages and Tobacco AONCR | Additive <br> Model: $(0,1,1)(0,1,1)$ <br> With transformation - none <br> F-value: 11.244 <br> MAVS: $3 \times 5 \mathrm{MA}$ <br> MAVTC: 9-term MA | Accepted at level 0.51 Check: M4, M10, M11 |
| Non-Food - PHILS | Additive <br> Model: ( $0,1,2$ )(0,1,1) <br> With transformation - none <br> F-Value: 2.475 <br> MAVS: $3 \times 5$ MA <br> MAVTC: 9-term MA | Accepted at level 0.71 Check: M7, M8, M10, M11 |
| Non-Food - NCR | Additive <br> Model: ( $0,1,2$ )(0,1,1) <br> With transformation - none <br> F-Value: 2.627 <br> MAVS: $3 \times 9$ MA <br> MAVTC: 9-term MA | Accepted at level 0.60 Check: 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: 1.709 <br> MAVS: $3 \times 5$ MA <br> MAVTC: 9-term MA | Accepted at level 0.85 Check: M7, M8, M9, M10, M11 |
| Clothing and Footwear - PHILS | Multiplicative <br> Model: (2,1,0)(0,1,1) <br> With transformation - none <br> F-value: 4.643 <br> MAVS: 3X5 MA <br> MAVTC: 9-term MA | Accepted at level 0.76 Check: M7, M8, M9, M10, M11 |
| Clothing and Footwear - NCR | Additive <br> Model: None <br> With transformation - none <br> F-value: 2.640 <br> MAVS: 3X5 MA <br> MAVTC: 9-term MA | Accepted at level 0.78 Check: 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: 3.658 <br> MAVS: 3X3 MA <br> MAVTC: 9-term MA | Accepted at level 0.90 Check: M7, M8, M9, M10, M11 |
| Housing, Water, Electricity, Gas and Other Fuels - PHILS | Additive <br> Model: $(0,1,1)(0,1,1)$ <br> With transformation - none <br> F-value: 7.798 <br> MAVS: 3X5 MA <br> MAVTC: 9-term MA | Accepted at level 0.52 |
| 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: 5.763 <br> MAVS: 3X9 MA <br> MAVTC: 13-term MA | Accepted at level 0.80 Check: M1, M6, 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: $(0,1,2)(0,1,1)$ <br> With transformation - <br> none <br> F-value: 6.820 <br> MAVS: 3X5 MA <br> MAVTC: 9-term MA | Accepted at level 0.66 <br> Check: M4, M8, M10, <br> 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: 8.168 <br> MAVS: 3X5 MA <br> MAVTC: 9-term MA | Accepted at level 0.58 <br> Check: M7, M8, M9, <br> M10, 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: 5.201 <br> MAVS: 3X5 MA <br> MAVTC: 9-term MA | Accepted at level 0.84 <br> Check: M7, M8, M9, <br> M10, M11 |
| Furnishing, Household <br> Equipment and <br> Routine Maintenance <br> of the House -AONCR | Additive <br> Model: $(2,1,2)(0,1,1)$ <br> With transformation - none <br> F-value: 4.460 <br> MAVS: 3X5 MA <br> MAVTC: 9-term MA | Accepted at level 0.70 <br> Check: M7, M8, M9, <br> M10, M11 |
| Health - PHILS | Multiplicative <br> Model: (2,1,0)(0,1,1) <br> With transformation - <br> none <br> F-value: 7.982 <br> MAVS: 3X5 MA <br> MAVTC: 9-term MA | Accepted at level 0.59 <br> Check: M8, M9, M10, <br> M11 |


| Series Name/ Geographic Area Covered | Statistical Models/Options | Summary Measures |
| :---: | :---: | :---: |
| Health -NCR | Multiplicative <br> Model: ( $0,1,1$ )(0,1,1) <br> With transformation - none <br> F-value: 12.895 <br> MAVS: 3X3 MA <br> MAVTC: 9-term MA | Accepted at level 0.61 Check: M4, M8, M10, M11 |
| Health - AONCR | Additive <br> Model: (2,1,0)(0,1,1) <br> With transformation - none <br> F-value: 3.773 <br> MAVS: 3X5 MA <br> MAVTC: 9-term MA | Accepted at level 0.66 Check: M7, M8, M9, M10, M11 |
| Transport - NCR | Multiplicative <br> Model: (2,1,2)(0,1,1) <br> With transformation - <br> none <br> F-value: 2.563 <br> MAVS: 3X5 MA <br> MAVTC: 9-term MA | Accepted at level 0.96 Check: M4, M7, M8, M10, M11 |
| Recreation and Culture - PHILS | Multiplicative <br> Model: ( $0,1,2$ )( $0,1,1$ ) <br> With transformation none <br> F-value: 4.232 <br> MAVS: 3X3 MA <br> MAVTC: 9-term MA | Accepted at level 0.84 Check: M4, M7, M8, M9, M10 |
| Recreation and Culture - NCR | Additive <br> Model: (2,1,0)(0,1,1) <br> With transformation - <br> none <br> F-value: 7.814 <br> MAVS: 3X3 MA <br> MAVTC: 9-term MA | Accepted at level 0.70 Check: M7, M8, M9, M10, M11 |
| Recreation and Culture - AONCR | Additive <br> Model: (2,1,0)(0,1,1) <br> With transformation -none <br> F-value: 3.762 <br> MAVS: 3X3 MA <br> MAVTC: 9-term MA | Accepted at level 0.82 Check: M7, M8, M9, M10 |


| Series Name/ Geographic Area Covered | Statistical Models/Options | Summary Measures |
| :---: | :---: | :---: |
| Education - PHILS | Additive <br> Model: $(2,1,2)(0,1,1)$ <br> With transformation - none <br> F-value: 14.042 <br> MAVS: 3X3 MA <br> MAVTC: 9-term MA | Accepted at level 0.54 Check: M4, M10, M11 |
| Education -NCR | Multiplicative <br> Model: None <br> With transformation - none <br> F-value: 54.552 <br> MAVS: 3X3 MA <br> MAVTC: 9-term MA | Accepted at level 0.34 Check: M4 |
| Education - AONCR | Additive <br> Model: (2,1,2)(0,1,1) <br> With transformation - none <br> F-value: 8.569 <br> MAVS: 3X3 MA <br> MAVTC: 9-term MA | Accepted at level 0.68 Check: M4, M7, M8, M10, M11 |
| Restaurant and Miscellaneous Goods and Services - PHILS | Additive <br> Model: ( $0,2,2$ )(0,1,1) <br> With transformation - none <br> F-value: 2.276 <br> MAVS: 3X5 MA <br> MAVTC: 9-term MA | Accepted at level 0.74 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: 2.925 <br> MAVS: 3X5 MA <br> MAVTC: 9-term MA | Accepted at level 0.76 Check: M4, M7, M8, 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: 1.866 <br> MAVS: 3X5 MA <br> MAVTC: 9-term MA | Accepted at level 0.99 Check: M7, M8, M9, M10, M11 |

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[^0]:    Source: Philippine Statistics Authority

