Table 4. Summary of Statistical Models Used in the Generation of Seasonally Adjusted CPI

(2012=100)

January 2012 – June 2020

| **Series Name/****Geographic Area Covered** | **Statistical Models/Options** | **Summary Measures** |
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| All Items – PHILS | MultiplicativeModel: (2,1,2)(0,1,1)With transformation - noneF-value: 3.988MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at level 0.81Check: M7, M8, M9, M10, M11 |
| All Items – AONCR | AdditiveModel: (0,1,1)(0,1,1)With transformation - noneF-value: 4.380MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at level 0.76Check: M7, M8, M9, M10, M11 |
| Food and Non-alcoholic Beverages – PHILS | MultiplicativeModel: (2,1,0)(0,1,1)With transformation - noneF-value: 20.292MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at level 0.39 |
| Food and Non-alcoholic Beverages – NCR | MultiplicativeModel: (2,1,0)(0,1,1)With transformation - noneF-value: 14.786MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at level 0.50Check: M8, M10, M11 |
| Food and Non-alcoholic Beverages – AONCR | AdditiveModel: (2,1,2)(0,1,1)With transformation - noneF-value: 17.264MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at level 0.43 |
| Alcoholic Beverages and Tobacco – PHILS | AdditiveModel: (2,1,0)(0,1,1)With transformation - noneF-value: 12.803MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at level 0.49Check: M4 |
| Alcoholic Beverages and Tobacco – NCR | MultiplicativeModel: (2,1,0)(0,1,1)With transformation - noneF-value: 14.324MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at level 0.44Check: M4 |
| Alcoholic Beverages and Tobacco – AONCR | AdditiveModel: (2,1,0)(0,1,1)With transformation - noneF-value: 11.215MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at level 0.47Check: M4, M10, M11 |
| Non-Food – PHILS | AdditiveModel: (0,1,2)(0,1,1)With transformation - noneF-Value: 2.295MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at level 0.70Check: M7, M8, M10, M11 |
| Non-Food – NCR | AdditiveModel: (0,1,1)(0,1,1)With transformation - noneF-Value: 2.782MAVS: 3x9 MAMAVTC: 9-term MA | Accepted at level 0.58Check: M7 |
| Non-Food – AONCR | AdditiveModel: (0,1,1)(0,1,1)With transformation - noneF-Value: 1.518MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at level 0.88Check: M4, M7, M8, M10, M11 |
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| Clothing and Footwear - PHILS | MultiplicativeModel: (2,1,2)(0,1,1)With transformation - noneF-value: 3.429MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.92Check: M7, M8, M9, M10, M11 |
| Clothing and Footwear - NCR | AdditiveModel: NoneWith transformation - noneF-value: 2.807MAVS: 3X9 MAMAVTC: 9-term MA | Accepted at level 0.67Check: M7, M8, M9, M10, M11 |
| Housing, Water, Electricity, Gas and Other Fuels - PHILS | AdditiveModel: (2,1,2)(0,1,1)With transformation – noneF-value: 6.720MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.53Check: M10, M11 |
| Housing, Water, Electricity, Gas and Other Fuels - AONCR | AdditiveModel: (0,1,2)(0,1,1)With transformation – noneF-value: 5.567MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.72Check: M4, M8, M10, M11 |
| Furnishing, Household Equipment and Routine Maintenance of the House -PHILS | AdditiveModel: (0,2,2)(0,1,1)With transformation – noneF-value: 6.420MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.66Check: M7, M8, M9, M10, M11 |
| Furnishing, Household Equipment and Routine Maintenance of the House -NCR | AdditiveModel: (0,1,1)(0,1,1)With transformation – noneF-value: 4.064MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.92Check: M7, M8, M9, M10, M11 |
| Furnishing, Household Equipment and Routine Maintenance of the House -AONCR | AdditiveModel: (0,2,2)(0,1,1)With transformation - noneF-value: 3.633MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.77Check: M7, M8, M9, M10, M11 |
| Health – PHILS | MultiplicativeModel: (2,1,0)(0,1,1)With transformation – noneF-value: 6.612MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.63Check: M8, M9, M10, M11 |
| Health –NCR | MultiplicativeModel: (2,1,0)(0,1,1)With transformation - noneF-value: 10.654MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.61Check: M4, M8, M9, M10, M11 |
| Health – AONCR | AdditiveModel: (2,1,2)(0,1,1)With transformation - noneF-value: 3.153MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.70Check: M7, M8, M9, M10, M11 |
| Transport – AONCR | MultiplicativeModel: (0,1,1)(0,1,1)With transformation - noneF-value: 0.904MAVS: 3X5 MAMAVTC: 13-term MA | Rejected at level 1.52Check: M1, M4, M7, M8, M9, M10, M11 |
| Recreation and Culture - PHILS | MultiplicativeModel: (2,1,0)(0,1,1)With transformation – noneF-value: 4.534MAVS: 3X3 MAMAVTC: 9-term MA | Accepted at level 0.89Check: M7, M8, M9, M10, M11 |
| Recreation and Culture - NCR | AdditiveModel: (0,1,2)(0,1,1)With transformation – noneF-value: 6.630MAVS: 3X3 MAMAVTC: 9-term MA | Accepted at level 0.82Check: M7, M8, M9, M10, M11 |
| Recreation and Culture - AONCR | AdditiveModel: (2,1,0)(0,1,1)With transformation – noneF-value: 4.380MAVS: 3X3 MAMAVTC: 9-term MA | Accepted at level 0.92Check: M4, M7, M8, M9, M10, M11 |
| Education – PHILS | AdditiveModel: (2,1,2)(0,1,1)With transformation - noneF-value: 12.983MAVS: 3X3 MAMAVTC: 9-term MA | Accepted at the level 0.51Check: M4, M6, M10, M11 |
| Education –NCR | MultiplicativeModel: noneWith transformation - noneF-value: 52.957MAVS: 3X3 MAMAVTC: 9-term MA | Accepted at the level 0.29Check: M4  |
| Restaurant and Miscellaneous Goods and Services - PHILS | AdditiveModel: (2,1,2)(0,1,1)With transformation - noneF-value: 2.268MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at the level 0.75Check: M7, M8, M9, M10, M11 |
| Restaurant and MiscellaneousGoods and Services – NCR | MultiplicativeModel: (0,2,2)(0,1,1)With transformation - noneF-value: 3.711MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at the level 0.68Check: M4, M7, M8, M10, M11 |
| Restaurant and MiscellaneousGoods and Services – AONCR | AdditiveModel: (2,1,2)(0,1,1)With transformation - noneF-value: 0.962MAVS: 3X5 MAMAVTC: 9-term MA | Conditionally Rejected at the level 1.16Check: M7, M8, M9, M10, M11 |

Source: Philippine Statistics Authority