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

(2012=100)

January 2012 – September 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: 3.456MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at level 0.84Check: M7, M8, M9, M10, M11 |
| All Items – AONCR | AdditiveModel: (0,1,1)(0,1,1)With transformation - noneF-value: 3.619MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at level 0.81Check: M7, M8, M9, M10, M11 |
| Food and Non-alcoholic Beverages – PHILS | MultiplicativeModel: (0,1,1)(0,1,1)With transformation - noneF-value: 15.950MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at level 0.45Check: M10, M11 |
| Food and Non-alcoholic Beverages – NCR | MultiplicativeModel: (2,1,2)(0,1,1)With transformation - noneF-value: 12.764MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at level 0.53Check: M8, M9, M10, M11 |
| Food and Non-alcoholic Beverages – AONCR | AdditiveModel: (0,1,1)(0,1,1)With transformation - noneF-value: 12.915MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at level 0.49Check: M10, M11 |
| Alcoholic Beverages and Tobacco – PHILS | AdditiveModel: (2,1,0)(0,1,1)With transformation - noneF-value: 13.647MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at level 0.44Check: M4 |
| Alcoholic Beverages and Tobacco – NCR | MultiplicativeModel: (2,1,0)(0,1,1)With transformation - noneF-value: 14.618MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at level 0.45Check: M4 |
| Alcoholic Beverages and Tobacco – AONCR | AdditiveModel: (2,1,0)(0,1,1)With transformation - noneF-value: 12.270MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at level 0.41 |
| Non-Food – PHILS | AdditiveModel: (0,1,2)(0,1,1)With transformation - noneF-Value: 1.979MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at level 0.77Check: M7, M8, M10, M11 |
| Non-Food – NCR | AdditiveModel: (0,1,2)(0,1,1)With transformation - noneF-Value: 2.888MAVS: 3x9 MAMAVTC: 9-term MA | Accepted at level 0.56Check: M6, M7 |
| Non-Food – AONCR | AdditiveModel: (0,1,1)(0,1,1)With transformation - noneF-Value: 1.231MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at level 0.99Check: M7, M8, M9, M10, M11 |
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| Clothing and Footwear - PHILS | MultiplicativeModel: (2,1,0)(0,1,1)With transformation - noneF-value: 4.253MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.81Check: M7, M8, M9, M10, M11 |
| Clothing and Footwear - NCR | AdditiveModel: NoneWith transformation - noneF-value: 2.848MAVS: 3X9 MAMAVTC: 9-term MA | Accepted at level 0.66Check: M7, M8, M9, M10, M11 |
| Housing, Water, Electricity, Gas and Other Fuels - PHILS | AdditiveModel: (0,1,1)(0,1,1)With transformation - noneF-value: 6.832MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.52Check: M10, M11 |
| Housing, Water, Electricity, Gas and Other Fuels - AONCR | AdditiveModel: (2,1,0)(0,1,1)With transformation - noneF-value: 5.497MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.70Check: M4, M8, M10, M11 |
| Furnishing, Household Equipment and Routine Maintenance of the House -PHILS | AdditiveModel: (0,1,1)(0,1,1)With transformation - noneF-value: 6.329MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.63Check: 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: 4.080MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.94Check: M7, M8, M9, M10, M11 |
| Furnishing, Household Equipment and Routine Maintenance of the House -AONCR | AdditiveModel: (2,1,2)(0,1,1)With transformation - noneF-value: 4.005MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.72Check: M7, M8, M9, M10, M11 |
| Health – PHILS | MultiplicativeModel: (2,1,0)(0,1,1)With transformation – noneF-value: 7.041MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.64Check: M8, M9, M10, M11 |
| Health –NCR | MultiplicativeModel: (0,1,1)(0,1,1)With transformation - noneF-value: 11.679MAVS: 3X3 MAMAVTC: 9-term MA | Accepted at level 0.70Check: M4, M8, M9, M10, M11 |
| Health – AONCR | AdditiveModel: (2,1,0)(0,1,1)With transformation - noneF-value: 3.354MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.71Check: M7, M8, M9, M10, M11 |
| Transport – AONCR | MultiplicativeModel: (0,1,2)(0,1,1)With transformation - noneF-value: 1.003MAVS: 3X5 MAMAVTC: 13-term MA | Rejected at level 1.54Check: M1, M4, M7, M8, M9, M10, M11 |
| Recreation and Culture - PHILS | MultiplicativeModel: (0,1,2)(0,1,1)With transformation – noneF-value: 4.339MAVS: 3X3 MAMAVTC: 9-term MA | Accepted at level 0.91Check: M4, M7, M8, M9, M10, M11 |
| Recreation and Culture - NCR | AdditiveModel: (2,1,2)(0,1,1)With transformation – noneF-value: 7.073MAVS: 3X3 MAMAVTC: 9-term MA | Accepted at level 0.77Check: M7, M8, M9, M10, M11 |
| Recreation and Culture - AONCR | AdditiveModel: (0,1,1)(0,1,1)With transformation – noneF-value: 3.715MAVS: 3X3 MAMAVTC: 9-term MA | Accepted at level 0.82Check: M7, M8, M9, M10, M11 |
| Education – PHILS | AdditiveModel: (2,1,0)(0,1,1)With transformation - noneF-value: 13.287MAVS: 3X3 MAMAVTC: 9-term MA | Accepted at level 0.53Check: M4, M10, M11 |
| Education –NCR | MultiplicativeModel: NoneWith transformation - noneF-value: 58.814MAVS: 3X3 MAMAVTC: 9-term MA | Accepted at level 0.31Check: M4  |
| Education - AONCR | AdditiveModel: (0,1,1)(0,1,1)With transformation - noneF-value: 8.108MAVS: 3X3 MAMAVTC: 9-term MA | Accepted at level 0.66Check: M4, M7, M8, M10, M11 |
| Restaurant and Miscellaneous Goods and Services - PHILS | AdditiveModel: (2,1,2)(0,1,1)With transformation - noneF-value: 2.093MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.82Check: M7, M8, M9, M10, M11 |
| Restaurant and MiscellaneousGoods and Services – NCR | MultiplicativeModel: (2,1,2)(0,1,1)With transformation - noneF-value: 4.002MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.66Check: M4, M7, M8, M10, M11 |
| Restaurant and MiscellaneousGoods and Services – AONCR | AdditiveModel: (2,1,0)(0,1,1)With transformation - noneF-value: 0.997MAVS: 3X5 MAMAVTC: 9-term MA | Rejected at level 1.18Check: M7, M8, M9, M10, M11 |

Source: Philippine Statistics Authority