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

(2012=100)

January 2012 – July 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: 4.045MAVS: 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: 4.463MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at level 0.76Check: M7, M8, M9, M10, M11 |
| Food and Non-alcoholic Beverages – PHILS | MultiplicativeModel: (0,1,1)(0,1,1)With transformation - noneF-value: 19.219MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at level 0.41Check: M4 |
| Food and Non-alcoholic Beverages – NCR | MultiplicativeModel: (2,1,2)(0,1,1)With transformation - noneF-value: 14.216MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at level 0.52Check: M8, M10, M11 |
| Food and Non-alcoholic Beverages – AONCR | AdditiveModel: (0,1,2)(0,1,1)With transformation - noneF-value: 16.613MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at level 0.45Check: M6 |
| Alcoholic Beverages and Tobacco – PHILS | AdditiveModel: (2,1,0)(0,1,1)With transformation - noneF-value: 11.629MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at level 0.47Check: M4, M10, M11 |
| Alcoholic Beverages and Tobacco – NCR | MultiplicativeModel: (2,1,0)(0,1,1)With transformation - noneF-value: 13.892MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at level 0.44 |
| Alcoholic Beverages and Tobacco – AONCR | AdditiveModel: (2,1,0)(0,1,1)With transformation - noneF-value: 10.456MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at level 0.53Check: M4, M10, M11 |
| Non-Food – PHILS | AdditiveModel: (0,1,2)(0,1,1)With transformation - noneF-Value: 1.799MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at level 0.79Check: M7, M8, M9, M10, M11 |
| Non-Food – NCR | AdditiveModel: (2,1,2)(0,1,1)With transformation - noneF-Value: 2.783MAVS: 3x9 MAMAVTC: 9-term MA | Accepted at level 0.61Check: M6, M7 |
| Non-Food – AONCR | AdditiveModel: (2,1,2)(0,1,1)With transformation - noneF-Value: 1.471MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at level 0.86Check: M7, M8, M10, M11 |
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| Clothing and Footwear - PHILS | MultiplicativeModel: (2,1,0)(0,1,1)With transformation - noneF-value: 3.548MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.91Check: M7, M8, M9, M10, M11 |
| Clothing and Footwear - NCR | AdditiveModel: NoneWith transformation - noneF-value: 2.786MAVS: 3X9 MAMAVTC: 9-term MA | Accepted at level 0.68Check: M7, M8, M9, M10, M11 |
| Housing, Water, Electricity, Gas and Other Fuels - PHILS | AdditiveModel: (2,1,2)(0,1,1)With transformation – noneF-value: 6.468MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.54Check: M10, M11 |
| Housing, Water, Electricity, Gas and Other Fuels - AONCR | AdditiveModel: (0,1,1)(0,1,1)With transformation – noneF-value: 4.769MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.73Check: M4, M7, M8, M10, M11 |
| Furnishing, Household Equipment and Routine Maintenance of the House -PHILS | AdditiveModel: (2,1,0)(0,1,1)With transformation – noneF-value: 6.695MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.64Check: M7, M8, M9, M10, M11 |
| Furnishing, Household Equipment and Routine Maintenance of the House -NCR | AdditiveModel: (2,1,2)(0,1,1)With transformation – noneF-value: 4.094MAVS: 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: 3.409MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.78Check: M7, M8, M9, M10, M11 |
| Health – PHILS | MultiplicativeModel: (2,1,0)(0,1,1)With transformation – noneF-value: 6.985MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.63Check: M8, M9, M10, M11 |
| Health –NCR | MultiplicativeModel: (0,1,2)(0,1,1)With transformation - noneF-value: 11.140MAVS: 3X3 MAMAVTC: 9-term MA | Accepted at level 0.71Check: M4, M8, M9, M10, M11 |
| Health – AONCR | AdditiveModel: (2,1,0)(0,1,1)With transformation - noneF-value: 3.343MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.67Check: M7, M8, M9, M10, M11 |
| Transport – AONCR | MultiplicativeModel: (0,1,2)(0,1,1)With transformation - noneF-value: 0.939MAVS: 3X5 MAMAVTC: 13-term MA | Rejected at level 1.56Check: M1, M4, M7, M8, M9, M10, M11 |
| Recreation and Culture - PHILS | MultiplicativeModel: (0,1,2)(0,1,1)With transformation – noneF-value: 4.462MAVS: 3X3 MAMAVTC: 9-term MA | Accepted at level 0.87Check: M7, M8, M9, M10, M11 |
| Recreation and Culture - NCR | AdditiveModel: (2,1,2)(0,1,1)With transformation – noneF-value: 6.365MAVS: 3X3 MAMAVTC: 9-term MA | Accepted at level 0.84Check: M7, M8, M9, M10, M11 |
| Recreation and Culture - AONCR | AdditiveModel: (0,1,2)(0,1,1)With transformation – noneF-value: 4.357MAVS: 3X3 MAMAVTC: 9-term MA | Accepted at level 0.87Check: M7, M8, M9, M10, M11 |
| Education – PHILS | AdditiveModel: (2,1,2)(0,1,1)With transformation - noneF-value: 13.112MAVS: 3X3 MAMAVTC: 9-term MA | Accepted at the level 0.52Check: M4, M10, M11 |
| Education –NCR | MultiplicativeModel: NoneWith transformation - noneF-value: 58.318MAVS: 3X3 MAMAVTC: 9-term MA | Accepted at the level 0.31Check: M4  |
| Education - AONCR | AdditiveModel: (0,1,1)(0,1,1)With transformation - noneF-value: 8.035MAVS: 3X3 MAMAVTC: 9-term MA | Accepted at the level 0.67Check: M4, M6, M7, M8, M9, M10, M11 |
| Restaurant and Miscellaneous Goods and Services - PHILS | AdditiveModel: (2,1,2)(0,1,1)With transformation - noneF-value: 1.785MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at the level 0.85Check: M7, M8, M9, M10, M11 |
| Restaurant and MiscellaneousGoods and Services – NCR | MultiplicativeModel: (0,2,2,2)(0,1,1)With transformation - noneF-value: 3.747MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at the level 0.67Check: M4, M7, M8, M10, M11 |
| Restaurant and MiscellaneousGoods and Services – AONCR | AdditiveModel: (2,1,2)(0,1,1)With transformation - noneF-value: 0.868MAVS: 3X5 MAMAVTC: 9-term MA | Rejected at the level 1.20Check: M7, M8, M9, M10, M11 |

Source: Philippine Statistics Authority