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

(2012=100)

January 2012 – December 2020

| **Series Name/****Geographic Area Covered** | **Statistical Models/Options** | **Summary Measures** |
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| All Items – PHILS | MultiplicativeModel: (0,1,2)(0,1,1)With transformation - noneF-value: 5.114MAVS: 3x5 MAMAVTC: 9-term MA | Rejected at level 1.01Check: M7, M8, M9, M10, M11 |
| All Items – AONCR | AdditiveModel: (0,1,2)(0,1,1)With transformation - noneF-value: 2.130MAVS: 3x5 MAMAVTC: 9-term MA | Rejected at level 1.05Check: M4, M7, M8, M9, M10, M11 |
| Food and Non-alcoholic Beverages – PHILS | MultiplicativeModel: (0,1,1)(0,1,1)With transformation - noneF-value: 8.482MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at level 0.60Check: M8, M9, M10, M11 |
| Food and Non-alcoholic Beverages – NCR | MultiplicativeModel: (0,1,2)(0,1,1)With transformation - noneF-value: 8.245MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at level 0.74Check: M4, M8, M9, M10, M11 |
| Food and Non-alcoholic Beverages – AONCR | AdditiveModel: (0,1,1)(0,1,1)With transformation - noneF-value: 6.638MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at level 0.64Check: M4, M8, M9, M10, M11 |
| Alcoholic Beverages and Tobacco – PHILS | AdditiveModel: (2,1,0)(0,1,1)With transformation - noneF-value: 11.462MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at level 0.47Check: M8, M10, M11 |
| Alcoholic Beverages and Tobacco – NCR | MultiplicativeModel: (2,1,0)(0,1,1)With transformation - noneF-value: 14.127MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at level 0.46Check: M4, M8, M10, M11 |
| Alcoholic Beverages and Tobacco – AONCR | AdditiveModel: (2,1,2)(0,1,1)With transformation - noneF-value: 10.590MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at level 0.49Check: M4, M8, M10, M11 |
| Non-Food – PHILS | AdditiveModel: (0,1,1)(0,1,1)With transformation - noneF-Value: 2.128MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at level 0.76Check: M7, M8, M9, M10, M11 |
| Non-Food – NCR | AdditiveModel: (0,1,2)(0,1,1)With transformation - noneF-Value: 2.911MAVS: 3x9 MAMAVTC: 9-term MA | Accepted at level 0.57Check: M6, M7 |
| Non-Food – AONCR | AdditiveModel: (0,1,2)(0,1,1)With transformation - noneF-Value: 1.423MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at level 0.98Check: M7, M8, M9, M10, M11 |
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| Clothing and Footwear - PHILS | MultiplicativeModel: (2,1,0)(0,1,1)With transformation - noneF-value: 4.466MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.79Check: M7, M8, M9, M10, M11 |
| Clothing and Footwear - NCR | AdditiveModel: NoneWith transformation - noneF-value: 2.639MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.80Check: M7, M8, M9, M10, M11 |
| Housing, Water, Electricity, Gas and Other Fuels - PHILS | AdditiveModel: (2,1,2)(0,1,1)With transformation - noneF-value: 7.261MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.53Check: M10, M11 |
| Housing, Water, Electricity, Gas and Other Fuels - AONCR | AdditiveModel: (2,1,2)(0,1,1)With transformation - noneF-value: 5.943MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.69Check: M4, M8, M10, M11 |
| Furnishing, Household Equipment and Routine Maintenance of the House -PHILS | AdditiveModel: (2,1,0)(0,1,1)With transformation - noneF-value: 8.062MAVS: 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: (2,1,2)(0,1,1)With transformation – noneF-value: 4.842MAVS: 3X3 MAMAVTC: 9-term MA | Rejected at level 1.05Check: 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: 4.646MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.64Check: M7, M8, M9, M10, M11 |
| Health – PHILS | MultiplicativeModel: (2,1,2)(0,1,1)With transformation – noneF-value: 7.657MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.59Check: M8, M9, M10, M11 |
| Health –NCR | MultiplicativeModel: (0,1,2)(0,1,1)With transformation - noneF-value: 12.289MAVS: 3X3 MAMAVTC: 9-term MA | Accepted at level 0.67Check: M4, M8, M9, M10, M11 |
| Health – AONCR | AdditiveModel: (0,1,1)(0,1,1)With transformation - noneF-value: 3.539MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.72Check: M7, M8, M9, M10, M11 |
| Transport – AONCR | MultiplicativeModel: (0,1,2)(0,1,1)With transformation - noneF-value: 1.106MAVS: 3X5 MAMAVTC: 13-term MA | Rejected at level 1.57Check: M1, M4, M7, M8, M9, M10, M11 |
| Recreation and Culture - PHILS | MultiplicativeModel: (2,1,0)(0,1,1)With transformation – noneF-value: 4.403MAVS: 3X3 MAMAVTC: 9-term MA | Accepted at level 0.92Check: M4, M7, M8, M9, M10, M11 |
| Recreation and Culture - NCR | AdditiveModel: (0,1,1)(0,1,1)With transformation – noneF-value: 7.491MAVS: 3X3 MAMAVTC: 9-term MA | Accepted at level 0.73Check: M7, M8, M9, M10, M11 |
| Recreation and Culture - AONCR | AdditiveModel: (0,1,1)(0,1,1)With transformation – noneF-value: 3.722MAVS: 3X3 MAMAVTC: 9-term MA | Accepted at level 0.85Check: M7, M8, M9, M10 |
| Education – PHILS | AdditiveModel: (2,1,2)(0,1,1)With transformation - noneF-value: 13.661MAVS: 3X3 MAMAVTC: 9-term MA | Accepted at level 0.56Check: M4, M10, M11 |
| Education –NCR | MultiplicativeModel: NoneWith transformation - noneF-value: 57.747MAVS: 3X3 MAMAVTC: 9-term MA | Accepted at level 0.32Check: M4  |
| Education - AONCR | AdditiveModel: (2,1,2)(0,1,1)With transformation - noneF-value: 8.289MAVS: 3X3 MAMAVTC: 9-term MA | Accepted at level 0.69Check: M7, M8, M9, M10, M11 |
| Restaurant and Miscellaneous Goods and Services - PHILS | AdditiveModel: (2,1,0)(0,1,1)With transformation - noneF-value: 2.017MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.83Check: M7, M8, M9, M10, M11 |
| Restaurant and MiscellaneousGoods and Services – NCR | MultiplicativeModel: (2,1,2)(0,1,1)With transformation - noneF-value: 3.555MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.70Check: M7, M8, M10, M11 |
| Restaurant and MiscellaneousGoods and Services – AONCR | AdditiveModel: (0,1,2)(0,1,1)With transformation - noneF-value: 1.107MAVS: 3X5 MAMAVTC: 9-term MA | Rejected at level 1.11Check: M7, M8, M9, M10, M11 |

Source: Philippine Statistics Authority