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

(2012=100)

January 2012 – June 2021

| **Series Name/****Geographic Area Covered** | **Statistical Models/Options** | **Summary Measures** |
| --- | --- | --- |
| All Items – PHILS | MultiplicativeModel: (2,1,0)(0,1,1)With transformation - noneF-value: 3.183MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at level 0.95Check: M7, M8, M9, M10, M11 |
| All Items – NCR | AdditiveModel: (0,1,2)(0,1,1)With transformation - noneF-value: 1.420MAVS: 3x5 MAMAVTC: 9-term MA | Rejected at level 1.11Check: M7, M8, M9, M10, M11 |
| All Items – AONCR | MultiplicativeModel: (2,1,2)(0,1,1)With transformation - noneF-value: 2.965MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at level 0.96Check: M4, M7, M8, M9, M10, M11 |
| Food and Non-alcoholic Beverages – PHILS | MultiplicativeModel: (2,1,1)(0,1,1)With transformation - noneF-value: 7.832MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at level 0.70Check: M8, M9, M10, M11 |
| Food and Non-alcoholic Beverages – NCR | MultiplicativeModel: (0,1,1)(0,1,1)With transformation - noneF-value: 8.562MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at level 0.79Check: M4, M7, M8, M9, M10, M11 |
| Food and Non-alcoholic Beverages – AONCR | MultiplicativeModel: (0,1,1)(0,1,1)With transformation - noneF-value: 7.276MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at level 0.73Check: M4, M7, M8, M9, M10, M11 |
| Alcoholic Beverages and Tobacco – PHILS | AdditiveModel: (0,2,2)(0,1,1)With transformation - noneF-value: 13.236MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at level 0.46Check: M4, M10, M11 |
| Alcoholic Beverages and Tobacco – NCR | MultiplicativeModel: (2,1,0)(0,1,1)With transformation - noneF-value: 14.230MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at level 0.51Check: M4, M8, M10, M11 |
| Alcoholic Beverages and Tobacco – AONCR | AdditiveModel: (0,1,2)(0,1,1)With transformation - noneF-value: 11.997MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at level 0.48Check: M4, M10, M11 |
| Non-Food – PHILS | AdditiveModel: (0,1,2)(0,1,1)With transformation - noneF-Value: 2.349MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at level 0.75Check: M7, M8, M10, M11 |
| Non-Food – NCR | AdditiveModel: (0,1,2)(0,1,1)With transformation - noneF-Value: 2.323MAVS: 3x9 MAMAVTC: 9-term MA | Accepted at level 0.64Check: M7 |
|  |
| Non-Food – AONCR | AdditiveModel: (0,1,2)(0,1,1)With transformation - noneF-Value: 1.692MAVS: 3x5 MAMAVTC: 9-term MA | Accepted at level 0.85Check: M7, M8, M9, M10, M11 |
| Clothing and Footwear - PHILS | MultiplicativeModel: (2,1,2)(0,1,1)With transformation - noneF-value: 4.409MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.77Check: M7, M8, M9, M10, M11 |
| Clothing and Footwear - NCR | AdditiveModel: NoneWith transformation - noneF-value: 2.484MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.79Check: M7, M8, M9, M10, M11 |
| Clothing and Footwear - AONCR | AdditiveModel: (2,1,0)(0,1,1)With transformation - noneF-value: 3.650MAVS: 3X3 MAMAVTC: 9-term MA | Accepted at level 0.88Check: M7, M8, M9, M10, M11 |
| Housing, Water, Electricity, Gas and Other Fuels - PHILS | AdditiveModel: (2,1,2)(0,1,1)With transformation - noneF-value: 7.282MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.56Check: M8, M10 |
| Housing, Water, Electricity, Gas and Other Fuels - NCR | AdditiveModel: (0,1,1)(0,1,1)With transformation - noneF-value: 4.876MAVS: 3X9 MAMAVTC: 13-term MA | Accepted at level 0.89Check: M1, M7 |
| Housing, Water, Electricity, Gas and Other Fuels - AONCR | AdditiveModel: (2,1,2)(0,1,1)With transformation - noneF-value: 6.725MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.68Check: 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: 8.082MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.56Check: 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: 5.335MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.83Check: 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: 5.063MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.59Check: M7, M8, M9, M10, M11 |
| Health – PHILS | MultiplicativeModel: (2,1,0)(0,1,1)With transformation – noneF-value: 8.891MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.52Check: M8, M9, M10, M11 |
| Health –NCR | MultiplicativeModel: (2,1,0)(0,1,1)With transformation - noneF-value: 13.882MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.55Check: M4, M8, M10, M11 |
| Health – AONCR | AdditiveModel: (2,1,2)(0,1,1)With transformation - noneF-value: 4.121MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.65Check: M7, M8, M9, M10, M11 |
| Transport – NCR | MultiplicativeModel: (0,1,1)(0,1,1)With transformation - noneF-value: 2.677MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.92Check: M4, M7, M8, M10, M11 |
| Recreation and Culture - PHILS | MultiplicativeModel: (2,1,2)(0,1,1)With transformation – noneF-value: 3.716MAVS: 3X3 MAMAVTC: 9-term MA | Accepted at level 0.96Check: M4, M7, M8, M9, M10 |
| Recreation and Culture - NCR | AdditiveModel: (2,1,2)(0,1,1)With transformation – noneF-value: 7.193MAVS: 3X3 MAMAVTC: 9-term MA | Accepted at level 0.75Check: M7, M8, M9, M10, M11 |
| Recreation and Culture - AONCR | AdditiveModel: (2,1,2)(0,1,1)With transformation –noneF-value: 3.264MAVS: 3X3 MAMAVTC: 9-term MA | Accepted at level 0.94Check: M7, M8, M9, M10 |
| Education – PHILS | AdditiveModel: (2,1,2)(0,1,1)With transformation - noneF-value: 14.487MAVS: 3X3 MAMAVTC: 9-term MA | Accepted at level 4.63Check: M4, M8, M9, M10, M11 |
| Education –NCR | MultiplicativeModel: (2,1,2)(0,1,1)With transformation - noneF-value: 34.183MAVS: 3X3 MAMAVTC: 9-term MA | Accepted at level 0.44Check: M4  |
| Education - AONCR | AdditiveModel: (2,1,2)(0,1,1)With transformation - noneF-value: 7.286MAVS: 3X3 MAMAVTC: 9-term MA | Accepted at level 0.65Check: M4, M7, M8, M10, M11 |
| Restaurant and Miscellaneous Goods and Services - PHILS | AdditiveModel: (2,1,2)(0,1,1)With transformation - noneF-value: 2.153MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.72Check: M7, M8, M9, M10, M11 |
| Restaurant and MiscellaneousGoods and Services – NCR | MultiplicativeModel: (2,1,2)(0,1,1)With transformation - noneF-value: 2.774MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.79Check: M4, M7, M8, M9, M10, M11 |
| Restaurant and MiscellaneousGoods and Services – AONCR | AdditiveModel: (2,1,2)(0,1,1)With transformation - noneF-value: 1.990MAVS: 3X5 MAMAVTC: 9-term MA | Accepted at level 0.96Check: M7, M8, M9, M10, M11 |

Source: Philippine Statistics Authority