**File S2.** Decomposition of temporal series

 Figs 1 to 27 show temporal series decomposition of each capital analyzed.

**Southeast macro-region**



**Fig 1**. Decomposition of the temporal series in trend, seasonality, and irregularity of the city of Belo Horizonte (state of Minas Gerais).



**Fig 2**. Decomposition of the temporal series in trend, seasonality, and irregularity of the city of Rio de Janeiro (state of Rio de Janeiro)



**Figura 3**. Decomposition of the temporal series in trend, seasonality, and irregularity of the city of São Paulo (state of São Paulo)



**Fig 4**. Decomposition of the temporal series in trend, seasonality, and irregularity of the city of Vitória (State of Espírito Santo)

**South macro-region**

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**Fig 5**. Decomposition of the temporal series in trend, seasonality, and irregularity of the city of Curitiba (State of Paraná)

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**Fig 6**. Decomposition of the temporal series in trend, seasonality, and irregularity of the city of Florianópolis (state of Santa Catarina)



**Fig 7** Decomposition of the temporal series in trend, seasonality, and irregularity of the city of Porto Alegre (state of Rio Grande do Sul).

**Midwest macro-region**



**Fig 8**. Decomposition of the temporal series in trend, seasonality, and irregularity of the city of Brasília (Distrito Federal).



**Fig 9**. Decomposition of the temporal series in trend, seasonality, and irregularity of the city of Campo Grande (state of Mato Grosso do Sul)



**Fig 10**. Decomposition of the temporal series in trend, seasonality, and irregularity of the city of Cuiabá (state of Mato Grosso State)



**Fig 11**. Decomposition of the temporal series in trend, seasonality, and irregularity of the city of Goiânia (state of Goiás).

**North macro-region**



**Fig 12**. Decomposition of the temporal series in trend, seasonality, and irregularity of the city of Palmas (state of Tocantins)



**Fig 13**. Decomposition of the temporal series in trend, seasonality, and irregularity of the city of Belém (state of Pará)



**Fig 14**. Decomposition of the temporal series in trend, seasonality, and irregularity of the city of Boa Vista (state of Roraima).



**Fig 15**. Decomposition of the temporal series in trend, seasonality, and irregularity of the city of Macapá (state of Amapá).



**Fig 16**. Decomposition of the temporal series in trend, seasonality, and irregularity of the city of Manaus (state of Amazonas)



**Fig 17**. Decomposition of the temporal series in trend, seasonality, and irregularity of the city of Porto Velho (state of Rondônia)



**Fig 18**. Decomposition of the temporal series in trend, seasonality, and irregularity of the city of Rio Branco (State of Acre).

**Northeast macro-region**



**Fig 19**. Decomposition of the temporal series in trend, seasonality, and irregularity of the city of Aracaju (state of Sergipe)



**Fig 20**. Decomposition of the temporal series in trend, seasonality, and irregularity of the city of Fortaleza (state of Ceará)



**Fig 21**. Decomposition of the temporal series in trend, seasonality, and irregularity of the city of João Pessoa (state of Paraíba)



**Fig 22**. Decomposition of the temporal series in trend, seasonality, and irregularity of the city of Maceió (state of Alagoas)



**Fig 23**. Decomposition of the temporal series in trend, seasonality, and irregularity of the city of Natal (state of Rio Grande do Norte)



**Fig 24**. Decomposition of the temporal series in trend, seasonality, and irregularity of the city of Recife (state of Pernambuco)



**Fig 25** Decomposition of the temporal series in trend, seasonality, and irregularity of the city of Salvador (state of Bahia)



**Fig 26**. Decomposition of the temporal series in trend, seasonality, and irregularity of the city of São Luís (state of Maranhão)



**Fig 27**. Decomposition of the temporal series in trend, seasonality, and irregularity of the city of Teresina (state of Piauí);