# Appendix

# TABLE A1

# Content of a survival basket of food in Montevideo, 1760-1810

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | 1. Survival basket in   Moraes and Thul (2018) | | 1. Survival basket in this article | |
|  | kl/lt. | Kcal | kl/lt. | kcal |
| bread | 0.498 | 1,220 | 0.204 | 500 |
| beef | 0.180 | 450 | 0.493 | 1,232 |
| pulses | 0.050 | 56.3 | 0.025 | 80 |
| wine | 0.252 | 214.2 | 0.150 | 128 |
| salt | 0.0 | 0.0 | 0.03 | 0.0 |
| sugar | 0.0 | 0.0 | 0.0 | 0.0 |
| *yerba mate* | 0.0 | 0.0 | 0.035 | 2 |
| total |  | 1,941 |  | 1,942 |

Sources: (1) Moraes, M. I., and Thul, F. (2018). (2) Basket 2 in Table 1 (main text).

# TABLE A2

# Prices of main staples, Montevideo 1760-1810. in *reales*

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|  | Bread | Beef | Pulses | Wine | Chilli | Salt | Yerba mate |
|  | 10  ounces | 1 carcass | 1  pound | 1  jar | 1  pound | 1  "cuartilla" | 1  pound |
| 1760 |  | 13.7 |  |  | 2.0 | 14.0 | 1.3 |
| 1761 | 0.28 | 9.1 |  | 9.0 | 2.2 | 12.0 | 1.5 |
| 1762 |  |  |  | 10.0 |  | 15.0 | 1.5 |
| 1763 |  |  |  | 9.0 | 2.0 |  | 1.5 |
| 1764 |  | 18.0 |  | 8.0 | 2.5 | 14.0 | 1.5 |
| 1765 | 0.42 | 18.0 |  |  |  | 18.0 |  |
| 1766 |  | 9.0 |  |  |  | 16.0 |  |
| 1767 |  | 6.4 |  | 8.0 | 1.5 | 16.0 | 1.5 |
| 1768 | 0.28 |  |  | 8.0 | 2.0 | 16.0 | 1.5 |
| 1769 | 0.36 |  |  |  | 2.0 | 16.0 | 1.5 |
| 1770 | 0.28 |  |  | 7 | 3 | 12 | 1 |
| 1771 | 0.31 |  |  |  |  | 16 |  |
| 1772 |  | 6 |  | 7 | 2 | 16 | 1.5 |
| 1773 | 0.31 |  |  | 6 | 2 | 12 | 1.5 |
| 1774 | 0.31 | 8 |  | 6 | 1.5 | 12 | 1 |
| 1775 | 0.24 | 8 |  | 5 | 1.5 | 12 | 1 |
| 1776 | 0.24 |  |  | 7.5 | 1.5 | 14 | 1 |
| 1777 | 0.24 | 8 |  | 6 | 1.5 | 12.0 | 1.0 |
| 1778 | 0.31 |  |  | 6 | 1.7 | 8.5 | 1.0 |
| 1779 | 0.33 | 13 |  | 6.5 | 1.7 | 10.0 | 1.0 |
| 1780 | 0.33 | 16 |  | 7.5 | 1.5 | 9.5 | 1.0 |
| 1781 | 0.32 | 16 | 1.5 | 6.5 | 1.3 | 12.0 | 1.5 |
| 1782 | 0.33 | 14 | 1.75 | 5.50 | 2.0 | 13.3 | 1.5 |
| 1783 |  | 16 | 1.5 | 4.75 | 2.5 | 12.0 | 1.5 |
| 1784 | 0.21 | 16 | 1.5 | 4.17 | 2.3 | 16.0 | 1.8 |
| 1785 | 0.25 | 14 | 1.5 | 5 | 2.5 |  | 1.5 |
| 1786 | 0.3 | 14.0 | 1.5 | 5.0 | 2.5 | 17.4 | 1.5 |
| 1787 | 0.3 | 8.0 | 1.5 | 5.0 | 1.5 | 17.0 | 1.5 |
| 1788 | 0.2 | 8.3 | 1.0 | 5.0 | 1.7 | 13.3 | 1.5 |
| 1789 | 0.2 | 9.0 | 1.3 | 5.0 | 1.5 | 11.3 | 1.5 |
| 1790 | 0.2 | 8.0 | 1.0 | 5.0 | 1.5 | 10.0 | 1.5 |
| 1791 | 0.2 | 10.0 | 1.3 | 4.8 | 2.0 | 4.0 | 1.5 |
| 1792 | 0.2 | 10.0 | 1.3 | 5.0 | 1.5 | 7.0 | 1.0 |
| 1793 | 0.2 | 12.0 | 1.0 | 5.0 | 1.5 | 4.7 | 1.0 |
| 1794 | 0.3 | 12.0 | 1.0 | 4.0 | 1.5 | 4.0 | 1.0 |
| 1795 | 0.2 | 9.3 | 1.0 | 4.0 | 1.5 | 3.5 | 1.3 |
| 1796 | 0.26 | 7.5 |  |  | 1.5 | 5.75 | 1.16 |
| 1797 | 0.4 | 10.0 | 1.16 | 6 |  | 8.7 | 1.08 |
| 1798 | 0.6 | 8.5 | 1.41 | 6.7 |  | 15.3 | 1.33 |
| 1799 | 0.5 | 9.0 | 2 | 5.8 |  | 10.7 | 1.08 |
| 1800 | 0.6 | 9.8 | 1.66 | 6.0 |  | 18.7 | 1.16 |
| 1801 | 0.6 | 7.5 | 1.33 | 8.5 |  | 7.3 | 1.08 |
| 1802 | 0.8 | 9.0 | 1.16 | 4.3 | 2.25 | 6.7 | 1.25 |
| 1803 | 0.3 |  | 1.5 | 4.8 | 3 | 10 | 1 |
| 1804 | 0.4 |  | 2 | 6.7 | 2 | 16 | 1.5 |
| 1805 | 0.6 |  | 1.75 | 7.5 | 2.5 | 17 | 1.4 |
| 1806 | 0.8 | 10.5 | 2.3 | 8.5 | 2.5 | 16 | 1.5 |
| 1807 | 0.4 | 9.0 | 2 | 10.0 | 2.5 | 16 | 2 |
| 1808 | 0.6 | 8.5 | 2 | 9.3 | 2.5 | 16 | 1.75 |
| 1809 | 0.5 | 9.0 | 1.5 | 7.3 | 2 | 10 | 1.08 |
| 1810 | 0.6 |  |  | 6.5 | 2 | 6 | 1.12 |

Notes and sources:

Columns 1, 3, 4, 5, 6 and 7: Archivo General de la Nación - Uruguay. Acuerdos del extinguido Cabildo de Montevideo, in *Revista del Archivo General Administrativo*, Volumes II, III, V, VI, VII, VIII, X and XVI.

Column 2:

1775-1799: Archivo General de Indias, Buenos Aires 445: *Relación Jurada del Oficial Real de Montevideo* (1775-1784), Buenos Aires 446: *Relación Jurada del Oficial Real de Montevideo* (1785-1788) and Buenos Aires 448: *Relación Jurada del Oficial Real de Montevideo* (1789-1799).

1800. 1803. and 1808: Sala, L., Rodríguez, J., & de la Torre, N. (1967a). *Estructura económica de la Banda Oriental*. Montevideo: Ediciones Pueblos Unidos, p. 49-50.

For 1760-1774 and 1800-1808 prices estimated as:

,

where *,* from Moraes (2018), and

# TABLE A3

# Montevideo food price indexes, 1760-1810

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Index 1** | **Index 2** |  | | **Index 1** | **Index 2** |
|  | 100= 1760-1810 (average) | | | 100= 1760-1810 (average) | | | |
| **1760** | 98.1 | 100.95 | **1785** | | 99.9 | 101.45 |
| **1761** | 104.6 | 108.25 | **1786** | | 89.2 | 90.99 |
| **1762** | 110.1 | 108.94 | **1787** | | 69.6 | 74.71 |
| **1763** | 112.4 | 113.12 | **1788** | | 65.9 | 68.92 |
| **1764** | 115.1 | 116.38 | **1789** | | 63.7 | 66.80 |
| **1765** | 107.7 | 111.49 | **1790** | | 69.0 | 70.31 |
| **1766** | 102.1 | 107.17 | **1791** | | 71.8 | 72.88 |
| **1767** | 93.4 | 96.18 | **1792** | | 61.7 | 60.33 |
| **1768** | 103.1 | 104.02 | **1793** | | 71.0 | 68.37 |
| **1769** | 92.9 | 94.74 | **1794** | | 64.8 | 63.49 |
| **1770** | 91.7 | 88.91 | **1795** | | 77.7 | 76.46 |
| **1771** | 88.0 | 84.38 | **1796** | | 97.0 | 92.39 |
| **1772** | 88.0 | 89.01 | **1797** | | 129.0 | 125.48 |
| **1773** | 92.5 | 93.02 | **1798** | | 122.6 | 121.30 |
| **1774** | 79.6 | 76.98 | **1799** | | 123.0 | 122.28 |
| **1775** | 74.9 | 73.06 | **1800** | | 138.9 | 138.02 |
| **1776** | 84.0 | 83.72 | **1801** | | 171.6 | 170.85 |
| **1777** | 90.4 | 87.95 | **1802** | | 89.4 | 87.05 |
| **1778** | 94.0 | 89.00 | **1803** | | 103.1 | 96.80 |
| **1779** | 85.5 | 82.25 | **1804** | | 121.4 | 121.81 |
| **1780** | 109.2 | 103.42 | **1805** | | 162.8 | 159.41 |
| **1781** | 113.8 | 111.65 | **1806** | | 122.8 | 124.46 |
| **1782** | 99.1 | 100.12 | **1807** | | 150.0 | 155.43 |
| **1783** | 75.5 | 77.58 | **1808** | | 140.6 | 145.08 |
| **1784** | 84.9 | 88.40 | **1809** | | 118.3 | 119.45 |
|  |  |  | **1810** | | 114.3 | 114.78 |

Notes and sources:

Laspeyres indexes calculated with prices in *reales* from Table 1 (this appendix) converted to modern units and quantities from baskets 1 and 2.

Conversion to kilos and liters: 1 oz = 0.0283 kg, 1 lb. = 0.454 kg, 1 carcass =207 kg.(\*), 1 “cuartilla” = 12.7 kg.(\*\*), 1 jar = 8 lt.(\*\*\*)

(\*) According to Escardó (1878: 94) and Garavaglia (1999: 243).

(\*\*) Ferrater, E. y Ferigle, P. (1841): *Recopilación extractada, ordenada y metódica de las leyes y reales disposiciones promulgadas en los años de 1833 a 1841 incluyendo las de la anterior época que han sido revalidadas*. Imprenta de Ramón Martín Indar, Barcelona, p. 236

(\*\*\*) According to Barba, F. E. (1999). *Aproximación al estudio de los precios y salarios en Buenos Aires desde fines del siglo XVIII hasta 1860: series y problemas en torno al tratamiento de los mismos*. Editorial de la Universidad Nacional de La Plata.

# TABLE A4

# Johansen’s test: outputs of the contrasts

1. With the vector of endogenous variables:Index 1. Buenos Aires, Santa Fe

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | | |  |  |
| Sample (adjusted): 1778 1810 | | |  |  |
| Included observations: 33 after adjustments | | | |  |
| Trend assumption: No deterministic trend | | | |  |
| Series: INDEX\_1 BUENOS\_AIRES SF | | |  |  |
| Exogenous series: FE=1810 | | |  |  |
| Warning: Critical values assume no exogenous series | | | | |
| Lags interval (in first differences): 1 to 1 | | | |  |
|  |  |  |  |  |
| Unrestricted Cointegration Rank Test (Trace) | | | |  |
|  |  |  |  |  |
|  |  |  |  |  |
| Hypothesized |  | Trace | 0.05 |  |
| No. of CE(s) | Eigenvalue | Statistic | Critical Value | Prob.\*\* |
|  |  |  |  |  |
|  |  |  |  |  |
| None \* | 0.463029 | 27.62454 | 24.27596 | 0.0182 |
| At most 1 | 0.189217 | 7.104752 | 12.32090 | 0.3148 |
| At most 2 | 0.005525 | 0.182840 | 4.129906 | 0.7231 |
|  |  |  |  |  |
|  |  |  |  |  |
| Trace test indicates one cointegrating equation(s) at the 0.05 level | | | | |
| \* denotes rejection of the hypothesis at the 0.05 level | | | | |
| \*\*MacKinnon-Haug-Michelis (1999) p-values | | | |  |
|  |  |  |  |  |
| Unrestricted Cointegration Rank Test (Maximum Eigenvalue) | | | | |
|  |  |  |  |  |
|  |  |  |  |  |
| Hypothesized |  | Max-Eigen | 0.05 |  |
| No. of CE(s) | Eigenvalue | Statistic | Critical Value | Prob.\*\* |
|  |  |  |  |  |
|  |  |  |  |  |
| None \* | 0.463029 | 20.51979 | 17.79730 | 0.0190 |
| At most 1 | 0.189217 | 6.921912 | 11.22480 | 0.2563 |
| At most 2 | 0.005525 | 0.182840 | 4.129906 | 0.7231 |
|  |  |  |  |  |
|  |  |  |  |  |
| Max-eigenvalue test indicates 1 cointegrating equation(s) at the 0.05 level | | | | |
| \* denotes rejection of the hypothesis at the 0.05 level | | | | |
| \*\*MacKinnon-Haug-Michelis (1999) p-values | | | |  |

2. 1. With the vector of endogenous variables:Index 2. Buenos Aires, Santa Fe

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | | |  |  |
| Sample (adjusted): 1778 1810 | | |  |  |
| Included observations: 33 after adjustments | | | |  |
| Trend assumption: No deterministic trend (restricted constant) | | | | |
| Series: INDEX\_2 BUENOS\_AIRES SF | | |  |  |
| Exogenous series: FE=1810 | | |  |  |
| Warning: Critical values assume no exogenous series | | | | |
| Lags interval (in first differences): 1 to 1 | | | |  |
|  |  |  |  |  |
| Unrestricted Cointegration Rank Test (Trace) | | | |  |
|  |  |  |  |  |
|  |  |  |  |  |
| Hypothesized |  | Trace | 0.05 |  |
| No. of CE(s) | Eigenvalue | Statistic | Critical Value | Prob.\*\* |
|  |  |  |  |  |
|  |  |  |  |  |
| None \* | 0.741835 | 55.67083 | 35.19275 | 0.0001 |
| At most 1 | 0.247962 | 10.98365 | 20.26184 | 0.5437 |
| At most 2 | 0.046742 | 1.579703 | 9.164546 | 0.8589 |
|  |  |  |  |  |
|  |  |  |  |  |
| Trace test indicates one cointegrating equation(s) at the 0.05 level | | | | |
| \* denotes rejection of the hypothesis at the 0.05 level | | | | |
| \*\*MacKinnon-Haug-Michelis (1999) p-values | | | |  |
|  |  |  |  |  |
| Unrestricted Cointegration Rank Test (Maximum Eigenvalue) | | | | |
|  |  |  |  |  |
|  |  |  |  |  |
| Hypothesized |  | Max-Eigen | 0.05 |  |
| No. of CE(s) | Eigenvalue | Statistic | Critical Value | Prob.\*\* |
|  |  |  |  |  |
|  |  |  |  |  |
| None \* | 0.741835 | 44.68718 | 22.29962 | 0.0000 |
| At most 1 | 0.247962 | 9.403949 | 15.89210 | 0.3917 |
| At most 2 | 0.046742 | 1.579703 | 9.164546 | 0.8589 |
|  |  |  |  |  |
|  |  |  |  |  |
| Max-eigenvalue test indicates 1 cointegrating equation(s) at the 0.05 level | | | | |
| \* denotes rejection of the hypothesis at the 0.05 level | | | | |
| \*\*MacKinnon-Haug-Michelis (1999) p-values | | | |  |
|  |  |  |  |  |