

# Detailed Data Appendix

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## 1 APPENDIX 1: An Annotated Bibliography of Data Sources

### 1.1 England

#### References

- [1] Beveridge, Sir William. *Prices and Wages in England from the Twelfth to the Nineteenth Century*, vol. I. London: Longmans, Green and Co., 1939. (BEV) During the 1930s, Lord Beveridge headed the International Scientific Committee on Price History, which produced two of the key references used in our study (the Beveridge book for England and the Posthumus book for Holland). The Beveridge contains data on a variety of commodity prices for Southeastern England (London and nearby vicinity), covering the early sixteenth century to the late eighteenth century. The data were largely constructed from the purchasing records of various institutions, including colleges and hospitals, and the Royal Navy (“Navy Victualling”). In addition, some prices are based on records kept by “the Lord Steward’s Department” which (under the monarchy) purchased the provisions for the various Royal Palaces around London.
- [2] Board of Trade. *Report of Wholesale and Retail Prices*, London: 1903. (BOT) The Report, published at the request of Parliament, contains commodity prices encompassing the 19th century.

- [3] The Economist. (ECO) During the 19th and early 20th century, The Economist published weekly statistics on wholesale prices of various commodities.
- [4] Jastram, Roy W. *Silver: The Restless Metal*. New York: John Wiley & Sons, 1981. (JAS) The book examines the development of silver in the United Kingdom and the United States. Tables at the end of the book provide a long (1273-1977) time series on the price of silver in England.
- [5] Mingay, G.E. *The Agrarian History of England and Wales: Volume VI: 1750-1850*. Cambridge: Cambridge University Press, 1989. (MIN) Tables at the end of this book contain the prices of various agricultural products in towns in England. The primary source for these data are price quotations from area newspapers.
- [6] Ministry of Agriculture and Fisheries. *Index Numbers of Agricultural Prices*. 1930. (IND) A report providing wholesale prices of agricultural products for the 1920s.
- [7] Journal of the Royal Statistical Society. (JRSS) Over the period 1895-1938, the Journal annually published a table of wholesale commodity prices.
- [8] Mitchell, B.R. and Deane, P. *Abstract of British Historical Statistics*. Cambridge: Cambridge University Press, 1962. (MITI) Both Mitchell and Dean, and Mitchell and Jones (below) contain a wide variety of time series encompassing a wide range of socio-economic issues.
- [9] Mitchell, B.R. *British Historical Statistics*. Cambridge: Cambridge University Press, 1988. (MITII)
- [10] Rogers, J.E. Thorgold. *A History of Agriculture and Prices in England*. vol. I, IV, and V. Oxford: Clarendon Press, 1866. (ROG) Includes annual average tables, constructed by taking the average of all the prices available for a given year. Most of the disaggregated series comes from various institutions, large estates and town markets.
- [11] Statistical Abstract of Great Britain. (SAGB) Statistical Office of the European Communities. *Agricultural Price Statistics*. (APS)

- [12] Stratton, J.M. and Brown, J.H. *Agricultural Records*. London: John Baker Limited, 1978. (AR) This book contains price tables in the appendix, drawn largely from secondary sources, including the Rogers book (above) or various government statistics.

## 1.2 Holland

### References

- [1] Bieleman, Jan, *Boeren Op Het Drentie Zand 1600-1910*. Utrecht: Hes Vitgevers, 1987. (BIE) Contains a table of annual wheat and rye prices.
- [2] Central Bureau of Statistics. *Negentig Jaren In Tydreeksel 1899-1988*. 1989. (NEG) Commodity price tables for the 20th century, based on government sources.
- [3] Knibbe, Merijn. *Agriculture in the Netherlands: 1851-1950*. Amsterdam: NEHA, 1993. (KNI) Contains tables of annual wholesale agricultural prices.
- [4] *Jaarcijfers* (Statistical Abstract of the Netherlands). (JAA)
- [5] Posthumus, N.W. *Inquiry Into the History of Prices in Holland*, vol.1. Leiden: E.J. Brill, 1946. (POSH) The two Posthumus volumes, which grew out of Beveridge's International Scientific Committee on Price History, are the most important source of data for pre-nineteenth century Holland. Volume I contains wholesale prices from the Amsterdam Exchange covering the 17th through 19th centuries. This volume also contains extensive time series on silver prices in Holland and market foreign exchange rates.
- [6] Posthumus, N.W. *Inquiry Into the History of Prices in Holland*, vol. II. Leiden: E.J. Brill, 1964. (POSII) Volume II contains commodity prices from various institutions, such as hospitals and orphanages, in Utrecht, Leyden and Amsterdam. The methodological approach is akin to Beveridge. Overall, the data encompass from the middle 14th century to 1914.
- [7] *Statistiek van Nederland. Marktprijzen van Granen te Arnhem, 1903*. (SVN) A government publication giving annual prices in Arnhem for various grains from the late 16th century to 1901.

- [8] Van Der Wee, Herman. *The Growth of the Antwerp Market and the European Economy Vol. 1*. The Hague: Martinus Nijhoff, 1963. (WEEI) Contains various price tables for commodities in various cities in Flanders and Brabant. (These areas were economically integrated with Holland from the time of the Holy Roman Empire until the late 16th century when Holland gained its independence.) The prices here are from institutional sources, mainly hospitals, cited in the Flemish silver groat; which equalled 1/40 of a Dutch guilder.
- [9] Van Reil, Arthur. *Prices and Economic Development in the Netherlands, 1800-1913*. (University of Utrecht, 1995 forthcoming). (VRI) Contains annual prices on basic commodities drawn from provincial annual reports and archive records of market prices for various cities in Holland, including Amsterdam and Utrecht.

## 2 Data Coverage by Commodity/Year/Country

Below, for each commodity, we list the years covered by each source, including some information on the underlying primary sources.

### 2.1 England

#### Barley

- I) ROG: 1259-60, 1262-64, 1266-1504, 1506-11, 1513-42, 1545-49, 1552-53, 1555-69, 1571-74, 1578, 1580, 1583-95, 1597-1649, 1652-57, 1662-63, 1671, 1681-82, 1685-86, 1696, 1699, 1701.
- II) MIN: Gloucester, 1749-88, 1800-1848; Reading, 1752-56, 1797-1849; Devizes, 1775-90, 1792-1848.
- III) MITII: Average Wholesale Price for United Kingdom, 1771-1797, 1793-1980.
- IV) BOT: Mid-Lothian Scotland Wholesale Price, 1801-1902.
- V) SAGB: Price Received by Producer, 1981-1991.

#### Butter

- I) BEV:
  - A) St. Bartholomew's Hospital (Sandwich), 1573, 1575, 1577-79, 1582, 1586-88, 1596-98, 1601-12, 1614, 1616, 1618-19, 1621-26, 1628, 1630, 1637, 1644-45, 1652-53, 1656, 1658-65, 1667-68, 1670-74, 1676, 1678-80, 1684-1700, 1704-06, 1718-43, 1745-48, 1750-66.
  - B) Lord Steward's Department, 1659-66, 1669-82, 1684-88, 1690-94, 1698-1830.
  - C) Navy Victualling London, 1683-84, 1686, 1688-98, 1700-23, 1725-46, 1749-61, 1763-1826.
  - D) Westminster School (Westminster), 1688-90, 1692-96, 1699, 1708-09, 1713, 1716-22, 1729-36, 1738-84.
  - E) Chelsea Hospital, 1702-12, 1714-95.

II) ROG: 1583-1609, 1611-24, 1626-27, 1629, 1631, 1633-51, 1653-57, 1663, 1671-79, 1681-1701.

III) BOT:

A) Royal Hospital (Greenwich), 1805-68, 1873-1902.

B) Bethlehem Royal Hospital (London) 1815-1902.

IV) JRSS: Wholesale Price, 1895-1938.

V) SAGB: Price Received by Producers, 1920-1956.

VI) APS: Price Received by Producers, 1969-1982.

Cheese

I) BEV:

A) St. Bartholomew's Hospital (Sandwich):

a) Suffolk Cheese, 1572-73, 1575, 1577-79, 1582-83, 1586-87, 1596, 1598, 1602-04, 1606, 1612, 1614, 1618-21, 1624-30, 1633-35, 1637-38, 1641-42, 1644-45, 1652-53, 1656, 1658-65, 1667-68, 1670-74, 1676, 1678-80, 1682, 1685-1700, 1704-06, 1718-27, 1734-46, 1748-51.

b) Cheshire Cheese, 1652-53, 1656-65, 1667-68, 1670-73, 1676, 1678-80, 1684, 1691-92, 1698, 1704-05, 1718-30, 1734-52, 1759, 1761-66.

B) Navy Victualling London:

a) Suffolk Cheese, 1683-84, 1686, 1688-90, 1692-98, 1700-23, 1725-40, 1742-46, 1748, 1750-57.

b) Cheshire Cheese, 1758-61, 1763-1826.

C) Westminster School (Westminster), 1688-90, 1692-96, 1700-03, 1708-09, 1712, 1716-23, 1729-36, 1738-84.

D) Chelsea Hospital, 1702-12, 1714-95.

E) Greenwich Hospital (Greenwich), 1712-1823.

II) BOT: Bethlehem Royal Hospital (London), 1815-1902.

III) ECO: Wholesale Price

- A) Edam Cheese, 1903-1915.
- B) Cheddar Cheese, 1915-1917.

IV) SAGB: Wholesale Price Cheddar Cheese, 1920-1944.

V) IND: Farmhouse Cheese Fairs Price, 1927-1937.

VI) APS: Cheddar Cheese Price Received by Producer, 1969-1980.

Eggs

I) ROG: 1583, 1585, 1587-1600, 1602-03, 1605-09, 1611-24, 1627, 1629, 1631, 1634-36, 1639-45.

II) BEV:

- A) Lord Steward's Department, 1669-82, 1684-88, 1690-95, 1698-1741, 1743-1830.
- B) Westminster School (Westminster), 1688-89, 1693-97, 1699-1702, 1708-09, 1716-18, 1720-23, 1728, 1730-35, 1737-77, 1780, 1783-84.

III) BOT: Retail Price in London, 1858-1872, 1886-1902.

IV) ECO: Wholesale Price, 1860-1871, 1899-1917.

V) SAGB: Price Received by Producer, 1920-1991.

VI) APS: Price Received by Producer, 1950-68, 1972-81.

Oats

I) ROG: 1259-65, 1267-69, 1272-1504, 1506-11, 1514-16, 1518-55, 1557-68, 1570-81, 1583-1702.

II) BEV: Winchester College (Winchester), 1630-1817.

III) MIN: Gloucester, 1749-1788, 1800-1848; Reading, 1753, 1755-56, 1766-1849; Devizes, 1775-1848; Leeds, 1775-76, 1779-1826, 1830-32, 1837; Preston, 1812-13, 1815-1831, 1833-36, 1838-40, 1842-1859.

- IV) MITII: Average Wholesale Price for England and Wales, 1771-1980.
- V) BOT: Mid-Lothian Scotland Wholesale Price, 1801-1902.
- VI) SAGB: Price Received by Producer, 1981-1991.

Peas

- I) ROG: 1263-68, 1270-1463, 1465-69, 1471-76, 1479-87, 1489, 1491, 1495-96, 1498, 1500, 1505-11, 1513-16, 1518-19, 1524-30, 1532-33, 1535, 1541, 1547, 1554-57, 1560, 1563-90, 1592-1678, 1680-84, 1687-89, 1692-94, 1696-97, 1701-02.
- II) BEV:
  - A) Navy Victualling:
    - a) London, 1683-1761, 1763-90, 1792-99, 1801-03, 1805-26.
    - b) Portsmouth, 1683-89, 1691-95, 1698, 1700-09, 1711-23, 1722-35, 1737-39, 1741, 1743-46, 1754-55, 1757-58, 1767, 1775-77, 1780-82, 1786, 1789, 1795, 1804-09, 1811.
    - c) Plymouth, 1683-89, 1692-96, 1698-1709, 1711-13, 1715-16, 1718-19, 1721, 1726, 1729, 1731, 1734-35, 1737, 1739-41, 1744, 1746, 1777, 1780-82, 1787-88, 1790, 1792, 1797, 1806, 1811-12.
  - B) Greenwich Hospital (Greenwich), 1712-1823.

III) BOT:

- A) Market Price, 1810-1859.
  - B) Retail Price (London), 1870-1902.
- IV) ECO: Wholesale Price 1860-1869.
  - V) SAGB: Price Received by Producer, 1927-1956.
  - VI) APS: Price Received by Producer, 1969-1982.

## Silver

### I) JAS:

- A) Mint Price (Official Value) 1273-1730, 1800, 1806, 1808-10.
- B) Market Price 1731-99, 1801-05, 1807, 1810-1991.

## Wheat

### I) ROG: 1259-1504, 1506-1702.

### II) AR: 1585-88, 1594-1789.

### III) MITI:

- A) Exeter College, 1316-37, 1340-1464, 1466-1501, 1503-05, 1507, 1509, 1511-28, 1532-57, 1559-69, 1571-75, 1577, 1581-82, 1584-1601, 1505-11, 1514-15, 1518, 1520-1703, 1705-27, 1731-1820.
- B) Eton College, 1594-1641, 1644-1820.

### IV) BEV:

- A) Winchester College (Winchester), 1630-1817.
- B) Navy Victualling:
  - a) London, 1683-1748, 1751-180
  - b) Portsmouth, 1743-44, 1746-61, 1763-1826.

### V) MIN: Gloucester, 1749-1788, 1800-1848; Reading, 1766-1849; Leeds, 1775-76; 1779-1824; Devizes, 1775-1848; Preston, 1812-1859.

### VI MITII: Average Wholesale Price in Great Britain, 1771-1980.

### VII) BOT: Mid-Lothian Scotland Wholesale Price, 1801-1902.

### VIII) SAGB: Price Received by Farmers, 1981-1991.

## 2.2 Holland

### Barley

I) WEEI: Antwerp Institutional Prices, 1367-71, 1373-74, 1376, 1378, 1380-1580.

II) POSII:

A) St. Bartholomew's Hospital (Utrecht), 1462, 1464-65, 1466-69, 1473-76, 1482-86, 1488-1564, 1566-72, 1575-81, 1589-93.

B) St. Catherine's Hospital (Leyden), 1392, 1394, 1396-98, 1400-02, 1404-05, 1411, 1414-16, 1418-20, 1422-27, 1432, 1434-36, 1438-40, 1445, 1448-50, 1452-54, 1456, 1458-59, 1461, 1466-67, 1470, 1475, 1477, 1480-1588, 1590, 1593, 1595-1660, 1668, 1709-10.

III) SVN: (Arnhem)

A) Barley, 1600-1627, 1795, 1799-1887.

B) Summer Barley, 1628-1709, 1711-1794, 1796-98.

C) Winter Barley, 1628-1709, 1711-1794, 1796-98.

IV) POSI:

A) Winter Barley, 1609, 1624, 1626, 1628, 1630-33, 1635-38, 1640-43, 1645-46, 1648-54, 1665, 1669, 1671-72, 1674, 1676-77, 1679, 1681-82, 1686, 1688-90, 1692, 1701, 1703, 1705-06, 1708-10, 1718, 1722, 1728, 1731-48, 1750-58, 1760-82, 1784-1807, 1810-12, 1818-21, 1824-61, 1863-64.

B) Groningen and Oldmbt Winter Barley, 1681, 1690, 1692, 1701, 1703, 1705, 1706, 1708-09, 1718, 1722, 1728, 1731-48, 1750-58, 1760-82, 1784-85, 1789, 1791-92, 1795-1807, 1810-12.

V) JAA: Average Market Quotation Price

A) Summer Barley, 1875-99, 1901-09, 1913-36.

B) Winter Barley, 1875-1936.

- C) Barley, 1945-1977.
- D) Brewing Barley, 1973, 1976-85.
- E) Fudder Barley, 1973, 1976-85.

VI) VRI: Gronigen, 1817-1910, National average 1800-1913.

### 2.2.1 Butter

I) WEEI: Brussels, 1385-1422, 1423-77, 1479-1580.

II) POSII:

- A) St. Catherine's Hospital (Leyden), 1411, 1414-27, 1432, 1434-36, 1439-41, 1445, 1448-50, 1452-54, 1456, 1458-59, 1461, 1466-67, 1470, 1475, 1477, 1480-94, 1501-02, 1504-09, 1512-29, 1531-70, 1572-74, 1583, 1585-87, 1589, 1591-1677, 1680, 1684, 1690-1731, 1733.
- B) St. Bartholomew's Hospital (Utrecht), 1464-68, 1470-77, 1482-84, 1486, 1488-1564, 1566-83, 1585-1604, 1606-08, 1610-19, 1621-27, 1630, 1632-51, 1653-85, 1687-1770, 1772-96, 1798-1801, 1803-08, 1810-1914.
- C) Municipal Orphanage (Amsterdam), 1585-88, 1596, 1612-13, 1620, 1628, 1634, 1637, 1639, 1641-42, 1644, 1646-57, 1659-60, 1662-68, 1670, 1672-80, 1682-96, 1698, 1701, 1706, 1713-15, 1717-21, 1726-28, 1749, 1779, 1782-1795.

III) POSI: Frisian Butter, 1816-24, 1829-35, 1841-43.

IV) KNI: 1851-1950.

V) JAA:

- A) Merengberg Insane Asylum, 1857-1929.
- B) Average Market Price, 1875-83.
- C) Auction Price, 1887-1930.
- D) Average Market Price (Delft), 1875-1900.
- E) Average Market Price (Leeuwarden), 1875-1900, 1903-17, 1920-39.

F) Average Market Price (Maastricht), 1901-39.

VI) NEG: Consumer Prices, 1935-1988. Converted to wholesale price by dividing by 1.19. This number was the average ratio of this price to the price listed in (VII).

VII) APS: Price Received by Producer 1969-1982.

VIII) VRI: Overijssel, 1800-05,1809,1812-17,1879-1910,1911-2

Drenthe, 1809,1812-1913

Gelderland. 1809-10, 1813,1815,1824-1913

South Holland, 1809, 1811-1913

Friesland, 1816, 1824-27, 1829-68, 1870-79, 1881-1913

#### Cheese

I) WEEI: Antwerp Price at St. Bavo's Fair

A) Flemish Cheese, 1385-1560.

B) Dutch Cheese, 1522-1551.

II) POSII:

A) St. Bartholomew's Hospital (Utrecht), 1532-44, 1546-78, 1575-83, 1585-1608, 1612-15, 1617-19, 1621, 1623-24, 1629-37, 1640-41, 1649, 1651-95, 1697-1770, 1772-73, 1775, 1778-1810, 1812-13, 1815-1914.

B) Municipal Orphanage (Amsterdam)

a) Cheese, 1566, 1586, 1594, 1621-31, 1637-40, 1642-47, 1649-50, 1652-57, 1659, 1661-63, 1665, 1667, 1670-1704, 1706-08, 1711-15, 1717-20, 1722, 1724, 1728, 1731-38, 1741.

b) Leyden Cheese, 1563, 1591-1613, 1615-17, 1620, 1631, 1635, 1637, 1640, 1643, 1645-51, 1653, 1655-56, 1658-59, 1661-72, 1674, 1676, 1680, 1682, 1785-91, 1794.

- c) Edam Cheese, 1649, 1666, 1671-72, 1676-78, 1680-82, 1684-87, 1689, 1691-93, 1697-99, 1702, 1704-09, 1711-12, 1716-17, 1762, 1784-1800.
  - C) St. Catherine's Hospital (Leyden), 1575-86, 1588-93, 1595-97, 1599, 1601, 1603-12, 1615-16, 1618-20, 1651-53, 1655-66, 1669-73, 1677, 1685-88, 1690-1700, 1702-04, 1715, 1719-22, 1727-35, 1737, 1738, 1743, 1746-47, 1749-50, 1755-60, 1763-64, 1767-93.
  - D) Holy Ghost Hospital and Children's Home (Leyden), 1621-74, 1676-77, 1679, 1683-88, 1694, 1710-25, 1728-70, 1773-88, 1790-92, 1794, 1795, 1797.
- III) KNI: Market Quotation, 1851-1950.
- IV) JAA:
- A) Average Market Price
    - a) Friesche Cheese, 1875-1900.
    - b) Edammer Cheese, 1875-1900.
    - c) Goudsche Cheese, 1875-96, 1898-1900.
  - B) Average Market Price
    - a) Bodegraven, 1911-17, 1919-39.
    - b) Utrecht, 1911-16.
    - c) Purmerend, 1911-39.
    - d) Delft, 1911-16.
    - e) Leyden, 1911-39.
  - C) Price Received by Producer, 1978-1987.
- V) NEG: Consumer Prices Belegen Goudse Cheese, 1935-1988. Price converted to wholesale price by dividing by 1.77. This number was the average ratio of this series to (VII).
- VI) APS: Price Received by Producer Goudse Cheese, 1969-1989.
- VII) VRI: South Holland, Leiden Cheese, 1806, 1814-55, 1874-76, 1881-93, 1897-1913

Utrecht: Leiden Cheese, 1814, 1820-22, 1824-25, 1827-29, 1831-40, 1853-65, 1867-71, 1873-88, 1890-1913

Stolkwijk Cheese, 1814, 1816-21, 1824-25, 1827-29, 1831-50, 1853, 1865, 1897-71, 1873-1913

## Eggs

I) WEEI: Brussels, 1390-1406, 1408-22, 1455, 1459-60, 1462, 1464, 1470-99, 1505-13, 1516, 1522, 1526-1600.

II) POSII:

A) Holy Ghost Hospital and Children's Home (Leyden), 1621-23, 1636-46, 1650-56, 1664-65, 1667, 1669, 1672-74, 1680-82, 1685-86, 1688-90, 1721-24, 1726-30, 1734, 1736, 1738-39, 1743-47, 1751, 1753-54, 1756, 1760, 1762-66, 1773-76, 1778-83, 1785-94, 1796-98.

B) Municipal Orphanage (Amsterdam), 1636, 1639-41, 1643-46, 1648-52, 1663.

III) KNI: Market Quotations 1851-1950.

IV) JAA:

A) Average Market Price

a) Assen, 1901-02, 1905-09.

b) Rotterdam, 1901-1910.

c) Maastricht, 1901-15, 1917, 1919-20.

d) Zutphen, 1911-20.

e) Roermond, 1911-39.

f) Eschede, 1920-39.

g) Arnhem, 1920-30.

h) Oostberg, 1920-39.

B) Price Received by Producer, 1955-87.

V) NEG: Price Received by Producer, 1949-80.

VI) VR:

- A) Drenthe, 1813-1908.
- B) Overijssel, 1856-1913.

#### Oats

- I) WEEI: Antwerp, 1366-92, 1394-1423, 1425-1580.
- II) POSII:
  - A) Chapter of Oldminster (Utrecht)
    - a) Price on St. Martin's Day, 1371-73, 1376-98, 1401-11, 1372-74, 1377-99, 1402, 1404-12, 1427, 1429-31, 1434, 1436, 1439, 1441, 1461-63, 1465-66, 1469-70, 1472, 1474, 1476, 1478, 1481-83, 1485-91, 1494-96.
    - b) Price on St. Peter's Day, 1372-74, 1376-98, 1401-11, remaining dates same as on St. Martin's Day (a).
  - B) Cathedral Chapter (Utrecht), 1394, 1401-21, 1423-25, 1427-33, 1435-48, 1450-55, 1457, 1459-1618, 1620-50, 1653-55, 1659-60, 1665.
  - C) St. Catherine's Hospital (Leyden), 1394, 1396-98, 1401-02, 1405-06, 1414-24, 1426-27, 1432, 1434-36, 1439-41, 1445, 1448-50, 1452-59, 1456, 1458-59, 1461, 1466-67, 1470, 1475, 1477, 1480-1563, 1566-67, 1570-91, 1594, 1597-1602, 1604, 1606, 1615, 1623-24.
  - D) St. Bartholomew's Hospital (Utrecht), 1462, 1464, 1466-68, 1471-73, 1476-77, 1482-83, 1485-88, 1490-92, 1495-1506, 1508-14, 1516-64, 1566-72, 1576, 1579, 1581-83, 1586, 1588.
- III) SVN: Arnhem, 1600-1901.
- IV) POSI:
  - A) Brew Oats, 1669, 1671-72, 1674-77, 1679, 1683, 1685-89, 1691, 1694, 1701, 1703, 1705-06, 1708-10, 1718-19, 1722, 1728, 1731-48, 1750-58, 1760-82, 1784-1808, 1810-12.
  - B) Forage Oats, same years as Brew Oats plus 1816-85, 1828-56.
- V) VRI: Groingen, 1817-1910.

VI) JAA:

- A) Average Market Price, 1875-1939.
- B) Price Received by Farmers, 1947-1987.

Peas

- I) WEEI: Malines, 1367-69, 1373-76, 1381-82, 1385, 1400, 1405-08, 1419, 1421-22, 1427-92, 1494-1504, 1506-70, 1572-1580.

II) VRI:

Gelderland. Green Peas, 1800-29, 1850-1913

Utrecht, Green Peas, 1800-12, 1814, 1816-18, 1820-21, 1824-25, 1827-87, 1890, 1892

Friesland, Green Peas, 1809, 1816, 1824-29, 1848-50, 1867-80, 1882, 1884-1907

Zeeland, Green Peas, 1812-13, 1816-1910

Groningen, 1818-50, 1852-1910

III) POSII:

A) St. Catherine's Hospital (Leyden):

- a) Green Peas, 1392, 1401-03, 1419, 1424, 1448-50, 1452-54, 1456-58, 1466-67, 1470, 1480, 1518-29, 1575, 1584, 1599, 1601-02, 1608-09, 1611, 1615-16, 1618, 1620-21, 1623-24, 1626-34, 1636-37, 1639-46, 1648-56, 1658-62, 1664, 1671-72, 1674-75, 1680-81, 1684, 1689, 1697-99, 1705, 1709.

B) St. Bartholomew's Hospital (Utrecht):

- a) Green Peas, 1524-30, 1532-37, 1539-61, 1563-65, 1567-68, 1571-72, 1574-75, 1577, 1579, 1582, 1585-91, 1594-1604, 1610-16, 1618, 1621, 1623-25, 1627-35, 1671-74, 1676, 1684-86, 1688-92, 1695-96, 1698, 1702-03, 1705, 1707-11, 1713, 1717-24, 1726, 1728, 1730-31, 1733-36, 1741, 1743-44, 1746-74, 1778-84, 1786-87, 1789-1801, 1803-09, 1811-21, 1823-41, 1843-49, 1852, 1854-59, 1862-1914.

- C) Holy Ghost Hospital and Children's Home (Leyden):
  - a) Green Peas, 1604-20, 1622-25, 1627-28, 1630-31, 1633, 1637-39, 1641-42, 1644, 1646-47, 1649-51, 1653-54, 1657-58, 1660-63, 1666-68, 1669, 1721, 1723-26, 1728, 1731-33, 1749-53, 1755-56, 1758, 1760-71, 1773-74, 1779-82, 1784, 1786-90, 1792-95, 1797-1800.
- D) Municipal Orphanage (Amsterdam)
  - a) Green Peas, 1562, 1565, 1569, 1585, 1588-91, 1597, 1599, 1602, 1625, 1632-34, 1638-39, 1645, 1648-50, 1652, 1654-56, 1658-59, 1661, 1695-99, 1701, 1703, 1705, 1707, 1709-12, 1714-16, 1719, 1721, 1723.

IV) JAA:

- A) Average Market Price, 1875-1939.
- B) Merengberg Insane Asylum, 1857-1910.
- C) Price for Various Institutions, 1881-1930.
- D) Prices Received by Producers, 1947-1987.

Silver [Dutch prices are quoted in fine silver, and were converted to standard silver prices (to correspond to British series) by multiplying prices by .925. This conversion ratio is taken from JAS.]

- I) WEEI: Silver content of Flemish Groat (40 Groats = 1 Guilder), 1365-1574.
- II) POSI:
  - A) Silver Content of Guilder, 1575-1730.
  - B) Marker (Market) Price of Silver, 1730-1914.
- III) JAS: 1915-1991. Series constructed by assuming law of one price for silver, and using Guilder-Pound Sterling Exchange Rate to convert British pound price to guilders. (JAA)

## Wheat

### I) POSII:

#### A) Cathedral Chapter (Utrecht):

- a) 1394-96, 1400-01, 1403-12, 1414-20, 1422-25, 1427-31, 1435-36, 1438, 1440-48, 1450, 1460-1513, 1515-1655, 1659-60.
- b) First Marketday in September, 1501-04, 1507-08, 1535-1625, 1628.

#### B) St. Catherine's Hospital (Leyden), 1394, 1396-98, 1401-03, 1405-06, 1411, 1414-27, 1432, 1434-36, 1439-41, 1445, 1448-50, 1452-54, 1459, 1458-59, 1461, 1467, 1470, 1475, 1477, 1480-1539, 1545-60, 1562-77, 1579-1615, 1617-21, 1623-66, 1668, 1670, 1672-77, 1680, 1682, 1686-88, 1691-92, 1694, 1696-97, 1701-11, 1714-21, 1723-24, 1726, 1740-41, 1767-87, 1789-90, 1792.

#### C) Market Prices in Utrecht:

- a) Red Wheat, 1402-12, 1414-17, 1760-1814.
- b) White and New Wheat, 1787-1851.

#### D) St. Bartholomew's Hospital (Utrecht), 1462-69, 1471-77, 1482-1572, 1575-83, 1585-1604, 1606, 1608, 1610-16, 1618-19, 1621-27, 1630, 1632-38, 1640-41, 1649, 1664-65, 1668-1770, 1772-1801, 1804-1819, 1821.

#### E) Municipal Orphanage (Amsterdam), 1562, 1565, 1567, 1569, 1587-1632, 1634, 1636, 1638-39, 1647-68, 1670-71, 1673-89, 1691-92, 1694-97, 1699-1702, 1704-11, 1713-23, 1726-32, 1735-40, 1742-43, 1745, 1747-53, 1755, 1757-96, 1798-1800.

#### F) Holy Ghost Hospital and Children's Home Zeeland Wheat (Leyden), 1604-10, 1612-13, 1615, 1618, 1620, 1623-24, 1629, 1631-65, 1668-71, 1685, 1688-89, 1724-25, 1730, 1732-33, 1735-36, 1738-40, 1742-43, 1746-60, 1762-71, 1773-77, 1779-86, 1788-89, 1791-1800.

### II) WEEI: Lier, 1427-69, 1479-95, 1497-1580.

### III) SVN: Arnhem, 1600-1901.

### IV) POSI:

- A) Konigsberg Wheat, 1628, 1630, 1633-34, 1638, 1640-43, 1645-46, 1648-50, 1653-54, 1669, 1671, 1674-75, 1679, 1681-83, 1686, 1688-92, 1694, 1701, 1703, 1705-06, 1708-10, 1713, 1718-19, 1722, 1728, 1731-45, 1747-48, 1750-58, 1760-1808, 1818-21, 1824, 1828-54, 1858.
- B) Polish Wheat, 1671-72, 1674-77, 1679, 1681-83, 1689, 1688-92, 1694, 1701, 1703, 1705-06, 1708-10, 1718-19, 1722, 1728, 1731-58, 1760-1808, 1818-21, 1824-26, 1828-75, 1879-80.
- C) Warder Wheat, 1648-54, 1669, 1671-72, 1679, 1681-83, 1686, 1688-92, 1694, 1701, 1703, 1705-06, 1708-10, 1718-19, 1722, 1728, 1731-45, 1747-58, 1760-1791.
- D) Frisian Wheat, 1722, 1728, 1731-42, 1748, 1750-58, 1760, 1762-63, 1765-81, 1784-86, 1788-95, 1797-1808, 1810-12, 1818-21, 1824-25, 1828-1867.
- E) Zealand Wheat, 1732-58, 1760-82, 1784-1808, 1810-12, 1816-24, 1828-57, 1860, 1872.
- F) For Future Delivery (3-month), 1873-1900.

V) JAA:

- A) Average Market Price, 1875-1931, 1933-39.
- B) Middenprijzen, 1875-1886, 1888-1896.

VI) NEG: Price Received by Producers, 1946-1988.

VII) VRI: National Average, 1800-1913; Gronigen, 1817-1910.

### 3 APPENDIX 2: Plague and War Dummies

See Tables A1 and A2 for definitions and estimates of plague and war dummies.