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Discussion paper

A continuous consumer price index for Norway 1492-2017

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A continuous consumer price index for Norway 1492-2017

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Abstract

This manuscript presents a new combined annual cost of living and consumer price index for Norway covering the period 1492-2017. When previous Norwegian historical consumer price indices partly were constructed on the basis of very limited data, the new historical index is constructed on a significantly richer data material. This is made possible by the compilation of quantitative data from numerous sources, mostly originating from the eighteenth, nineteenth and early twentieth century.

The new index makes it possible to follow annual living costs in Norway for 525 years. When comparing to existing price indices the new series reveals that it is needed to make some major revisions of Norwegian price history.

Keywords: Price index, price history, purchasing power parity, economic history

JEL Classification: E31, N13, N14, N24, N34

Introduction

In 2004 the central bank published a continuous combined cost of living (CLI) and consumer price index (CPI) for Norway covering the period 1516-2003. This price index mainly consisted of prices per decade until 1665, and thereafter-annual series from 1666 onwards. The data coverage before 1830 was quite limited. In consequence, several challenges have been made to the central bank's existing CLI-CPI.¹

In the first place, Professor Jan Tore Klovland at the Norwegian School of Economics, published non-consumer price indices from 1767. These conclude differently from the established historical CLI-CPI on the high inflation period 1807-1817. The considerable difference is basically due to alternative methods of splicing price data recorded in different currency units.² When using the same method, the existing Norwegian Bank CLI-CPI and Klovland's price indices become substantially more reconcilable.

Secondly, international price series reveal that the existing Norwegian CLI-CPI during parts of the eighteenth century departs considerably from the development in similar price indices for neighbouring economies, e.g. the British, Swedish and Danish. Since Norway and Denmark had common currencies during this period it seems difficult to explain this difference.³ Can new price series reduce these discrepancies or enable us to understand them?

Thirdly, parts of the existing Norwegian historical CLI-CPI is to a considerable extent constructed on a statistically weak basis, with few and imprecise registrations of prices.⁴ These series are arguably necessarily neither very valid nor reliable. Thus, one may construct new and better indices on the basis of richer and more representative sources made available during the last years. The present research represents an attempt of doing exactly that by

¹ Grytten, Ola Honningdal 2004a, "A Consumer Price Index for Norway 1516-2003", Eitrheim, Øyvind, Jan Tore Klovland & Jan Fredrik Qvigstad (eds), *Historical Monetary Statistics for Norway*, Norges Bank, Oslo, pp. 47-98.

² Klovland, Jan Tore 2018, "Contribution to a history of prices in Norway: Monthly price indices, 1767-1920", unpublished manuscript, NHH, Bergen.

³ Abildgren, Kim 2010, "Consumer Prices in Denmark 1502-2007", *Scandinavian Economic History Review*, **58**(1), pp. 2-24.

⁴ Grytten 2004a, pp. 47-98.

introducing a new continuous annual CLI-CPI for Norway during a 525-year period, 1492-2017.

Understanding history on its own premises

It is imperative to understand history, including economic history, on its own premises. Thus, one should be careful with applying modern standards, methods and instruments on times and occasions they were not constructed for. Hence, when establishing historical price indices one has to keep in mind that both the concept of the cost of living and the consumer price index as we understand them today are fairly modern.

The first constructed price indices basically reported prices related to foreign trade, production and wholesale. Einar Ruud constructed the oldest Norwegian annual price index. It includes import prices on 39 commodities from 1880 and until 1910. Its documentation was published in the Monthly Bulletin of Social Statistics in 1911.⁵ Later, the Ministry of Social Affairs started to construct the first national cost of living index for Norway in 1914.⁶

However, before the construction of these first indices, price data were collected and reported on a more or less regular and organized basis from the 17th century onwards. The significant majority of the population at the time were basically occupied with producing their own necessities. Thus, retail sales were chiefly limited to commodities consumers didn't produce domestically. This implies that most markets for consumer goods were in urban areas, where non-farmers lived. This was quite common several decades into the nineteenth century.⁷ Still up to the Second World War combinations of several occupations were dominant arrangements in the rural areas.⁸

One may ask how relevant a CLI is for an economy based on self-sufficiency. A CLI is in principle supposed to reflect the costs of living, given a fixed utility level, and can be used as a measure of purchasing power. That

⁵ Ruud, Einar 1911, "Vareprisernes bevægelse 1880-1910", *Månedsskrift for Socialstatistikk*, 1(9-10), Statistics Norway, Kristiania, pp. 136-149.

⁶ NOS X. 178 1949, *Statistical Survey 1948*, Statistics Norway, Oslo, pp. 329-332.

⁷ Hodne, Fritz & Ola Honningdal Grytten 2000, *Norsk økonomi i det 19 århundre*, Fagbokforlaget, Bergen, pp. 59-74.

⁸ Hodne, Fritz & Ola Honningdal Grytten 2002, *Norsk økonomi i det 20 århundre*, Fagbokforlaget, Bergen, pp. 145-164.

implies that working hours in order to maintain a certain utility level would have been a relevant alternative to a CLI, since only a minority of the population's necessities were sold in a market and given proper retail prices.

Nevertheless, as early as 1641 did Norwegian clergy collect prices in order to give measures of the cost of living (and in order to map the ability of paying tithes). Hence, they considered expenses a way of measuring ordinary peoples' common needs and their ability to cover these.⁹ Thus, despite their shortcomings, CLIs and CPIs seem to serve as relevant measures of historical costs of living for common people even 400 and 500 years ago.

The existing historical CLI-CPI

Jon Petter Holter, a former director of statistics at the Norwegian central bank, first constructed a preliminary price index with a Laspeyres approach for Norway 1835-1865.¹⁰ This was spliced with Statistics Norway's combined CLI-CPI from 1865 onwards.¹¹ The latter was constructed as a deflator for private consumption as part of the bureau's historical national accounts publication.¹² Both Holter's and Statistics Norway's figures until 1920 were made on sparse and fragile data. Additionally, the series lacked satisfactory documentation.

Scholars at the Norwegian School of Economics in Bergen took up the challenge from Holter. Thus, a historical price index covering the years 1516-2003 was published for the Norwegian central bank in 2004. This index, also, was constructed by a traditional Laspeyres approach, which still serves as the standard method for establishing both CLIs and CPIs. Thus, representative base years were chosen towards the middle of sub-periods along the time series. The major sources for this index were data compiled by Statistics Norway, merchants and retailers in Bergen, public records on grain and vegetable prices, the

⁹ Grytten 2004a, pp. 47-52.

¹⁰ Holter, Jon Petter 1996, "Konsumprisutviklingen i Norge fra 1835 til 1996, *Penger og kreditt*, 3/1996, Norges Bank, Oslo.

¹¹ NOS C. 188 1995, *Historical Statistics 1994*, Statistics Norway, Oslo-Kongsvinger 1995, pp. 296-297.

¹² NOS XII. 163 1965, *National Accounts 1865-1960*, Statistics Norway, Oslo, pp. 352-355.

Professor Ingvar B. Wedervang's Archives on Historical Wages and Prices and even a set of prices from Denmark.¹³

The combined CLI-CPI published in 2004 was basically constructed as ten different price indices covering different sub-periods of time. They were thereafter spliced into one over-all series. The coverage altered substantially. This can be illustrated by the number of observations, the geographical coverage of the data and the major sources for each sub-index. These parameters are described in table 1.

Table 1. Descriptive statistics Norges Bank's old historical CLI-CPI 1516-2003.

Period	Type	Constructed by	Commodities	Locations	Main sources
1516-1666	CLI-WPI	Grytten	3-6	2+	PR
1666-1709	CLI-WPI	Grytten	7-21	West Norw	ParR
1709-1819	CLI-WPI	Grytten	18	1	MA, PC
1819-1830	CLI-WPI	Grytten	29	13	PC, MA
1830-1871	CLI	Grytten	47	40	PR
1871-1910	CLI	Ramstad	55	1	PR
1901-1916	CLI	Kristiania Statistical Office	57	1	LR
1916-1920	CLI	Ministry of Social Affairs	53	6-16	PR
1920-1960	CLI	Statistics Norway	120-340-700	16-100	SN
1960-2003	CPI	Statistics Norway	app 1000	National	SN

Sources, Grytten 2004a, pp. 47-98, Grytten 2004b, pp. 61-79.

ua* = urban areas

PR = Public records

ParR= Parish records

MA = Merchant archives

PC = Price currents

LR = Local records

SN = Statistics Norway

WA= Wedervang Archive

Existing historical CLI 1516-1920

For the first period 1516-1666, the index was almost entirely constructed on the basis of appraisal prices on imported rye, barley and oats along with other domestic prices on barley, oats and maslin. These data were all collected and

¹³ Grytten 2004a, pp. 47-98, Grytten 2004b, "A Norwegian consumer price index 1819-1913 in a Scandinavian perspective", *European Review of Economic History*, **8**(1), pp. 61-79.

published by one of the 19th centuries most profiled Norwegian economist, Professor Torkel Halvorsen Aschehoug in 1888.¹⁴

For the second period, 1666-1709, most of the 7-21 price series were compiled by the bishop's office in Bergen on the basis of parish reports for Bjørgvin Diocly along the west coast. This was one of the biggest and most important dioceses in Norway. Local vicars along the west coast were responsible for the collection of data, which served as indicators of social welfare and purchasing power in the local parishes.¹⁵

Thereafter, records of trade in Bergen made it possible to construct a third price index for the period 1709-1819. The basic sources were merchant archives from 1709 and price currents from 1777 onwards. Both these sources were basically recorded at Bryggen, the main Norwegian external and domestic trade centre for centuries and the core location for commodity transactions. The records reflect import, export, retail, wholesale and production prices.¹⁶ The merchants traded along the coast from Southern Norway to Northern Norway and with merchants for the United Kingdoms, the Netherlands, Germany, Denmark, France and the rest of the European continent. In consequence, these prices reflect substantially more than the price level in Bergen alone.

As for the years 1819-1830, one was for the first period in question able to construct a price index reflecting prices in 13 different locations, covering vast parts of Southern-Norway. However, a problem was quite limited data samples from most of these locations. Again, price currents and merchant archives from the major city and economic capital at the time, Bergen, came to rescue, enabling one to construct a price index on the basis of 29 different commodities covering this turbulent economic period.¹⁷

The data sample, upon which the existing CLI-CPI rests, improves significantly from 1830 onwards. By a governmental decree public officials were

¹⁴ Aschehoug, Torkel Halvorsen 1888, "Studier over kornprisernes historie i Norge siden Amerikas oppdagelse", *Statsøkonomisk tidsskrift*, 2(1), pp. 81-116.

¹⁵ The State Archive in Bergen, Bergen Domkapitelsprotokoller 1639-1933, Professor Ingvar B. Wedervang's Historical Archive on Prices and Wages, files W051, W155, W210 and W217.

¹⁶ The City Archive in Bergen, Nordfarkladder 1709-1819, A-0581 Rb 0001, Nordfaruttrekk 1712-1819, A-0581 Ra 0001, A-620 Ra 0001, Bergens Pric-Curant for Norlandshandlerne 1739-1818, Coldevin, Axel 1938, *Næringsliv og priser i Nordland 1700-1880*, Hanseatisk museum, Bergen.

¹⁷ Wedervang Archive, files W051, W210, W217, W270 and W397.

to collect market prices on consumer goods every month in 40 towns and cities all over the country. The price observations were thereafter gathered by the Ministry of Domestic Affairs and assessed by them.

A team directed by Professor B Ingvar Wedervang from the University of Oslo compiled these data in the 1930s. When he moved to Bergen to establish the Norwegian School of Economics the data files followed him, and after the war the school established the Professor Ingvar B. Wedervang's Historical Archive on Historical Wages and Prices.¹⁸ The bulk of the price data in the archive contains retail or whole sale prices.¹⁹ In the work with the existing CLI-CPI these data were supplemented with other kinds of retail and institutional prices kept at the Wedervang Archive and other archives and publications.²⁰ Thus, one was able to construct the existing combined CLI-CPI.

Some of these sources come to a halt in 1871. However, one still used a persistent sample until 1920. The data stem from the Norwegian capital, Kristiania (Oslo), and also these are to a large degree kept in the Wedervang Archive.²¹ They made the grounds for Jan Ramstad's, of the Norwegian School of Economics, pathbreaking CLI 1871-1910.²² In addition one utilised retail price notations from 24 urban markets 1830-1913.²³ Another important source was Statistics Norway's publications of prices on key kinds of crops, 1836-1914. They reflect import, production, wholesale and partly retail prices.²⁴

Thereafter, the existing CLI-CPI is a spliced index of several indices, covering different time spans. The first is the Oslo Statistical Offices' CLI for Kristiania (Oslo), covering approximately up to 57 products for the period 1901-1916.²⁵ This was during a ten-year period 1901-1910, gradually linked to Jan Ramstad's price index for Oslo 1850-1910, covering 55 commodities. Thereafter,

¹⁸ Bjørsvik, Elisabeth & Yngve Nilsen 2011, *Norges Handelshøyskole 75 år - en lærestanstalt av høieste rang*, Fagbokforlaget, Bergen.

¹⁹ Wedervang Archive, files W269 and W272

²⁰ Wedervang Archive, files W139, W269, W271 and W383.

²¹ Wedervang Archive, files W051, W128, W139, W206, W220, W275, W276, W383 and W396.

²² Ramstad, Jan 1982, *Kvinnelønn og pengeøkonomi. En studie av kvinners lønn i tekstilindustrien i Kristiania ca 1850-1910*, NHH, Bergen, pp. 158-238.

²³ Wedervang Archive, file W269.

²⁴ NOS VI. 23 1915, *Market Prices on grain and potatoes 1836-1914*, Statistics Norway, Oslo.

²⁵ Statistical Office of Kristiania 1915, *Husholdningsregnskaper ført av en del mindre bemidlede familier i Kristiania, Bergen, Trondhjem, Kristiansand og Hamar aaret 1912/1913*, Specialundersøkelser IV, Oslo, NOS XII 245 1969, *Historical Statistics* 1968, Statistics Norway, Oslo. pp. 352-353.

we link our historical indices to the Ministry of Social Affairs CLI up until 1920. This latter price index rests on prices of up to 53 commodities taken by public decree in 6-16 towns and cities at its time.²⁶

Existing CLI-CPI 1920-2004

From 1920 the existing historical CLI-CPI is entirely based on prices collected and indices constructed by Statistics Norway. This is in accordance with the responsibility they took in 1919. They started up by constructing a new cost of Living index for an increasing number of urban areas. In 1920 they collected data from 16 towns and cities, and in 1952 from a hundred different communities around the country. Almost simultaneously, they increased the number of commodities from 120 to 700.²⁷

When a cost of living index (CLI) reflects consumer expenditures for typical working families, Statistics Norway introduced their first full scale consumer price index (CPI) from 1959 onwards. Their CPI reflected a representative picture of development in most kinds of consumer prices, inclusive all types of households, nation-wide. Statistics Norway collected prices from all over the country on approximately a thousand products. All in all, an impressive number of 40,000 – 45,000 observations were taken manually every month.²⁸

Since all the spliced indices in the combined CLI-CPI 1516-2003 were constructed with a Laspeyres approach, the choice of quantity weights for each product or commodity was very important. Thus, one used available household consumption surveys and research in order to give representative weights of each commodity index and expenditure group index.²⁹ For the years before 1800 one basically had to look into quantitative consumption research in order to do so. From then on, one basically used public consumption surveys and quantitative research on consumer baskets linked to these. These studies were predominantly carried out by scholars at the Norwegian School of Economics

²⁶ NOS XII. 291 1978, *Historical Statistics 1978*, Statistics Norway, Oslo, pp. 518-519.

²⁷ Bye, Torstein & Torbjørn Hægeland 2014b, "KPI 100 år". *Økonomiske analyser*, **33**(5), pp. 1-2, Statistics Norway 1994, p. 292.

²⁸ NOS 1995, pp. 289-292.

²⁹ Grytten 2004a, pp. 63-66.

with Dr Kjell Bjørn Minde, who served as manager for the Wedervang Archive, as the most central pioneer.³⁰

Alternative price indices

In 1965 Statistics Norway published a deflator for private consumption as part of their historical national accounts covering the years 1865-1960. They later labelled it both a deflator of private consumption and a historical CPI. There is hardly any documentation neither on how this series was constructed nor on the use and sources of the data.

However, we know it is identical with Statistics Norway's CLI from 1920 onwards.³¹ In 1982 Jan Ramstad published his cost of living index for Kristiania (Oslo), covering the period 1850-1910. As already mentioned he was able to follow annual prices of 55 consumption commodities. He derived his applied commodity and expenditure weights from Kristiania Statistical Office's detailed consumption survey of 1912/1913.³²

After the central bank published their CLI-CPI in 2004, a series of new or revised price indices were, constructed covering different periods of time. Sverre Ellingsæther constructed a revised CLI for the period 1871-1910 by including more data, and, thus, covering a larger part of household consumption, i.e. basically housing and transport.³³

Jan Tore Klovland's work on Norwegian historical prices is probably the most authoritative and reliable source in its respect. Klovland has constructed monthly production, wholesale, export and import price indices, now covering the period 1767-1920.

He did this chiefly on the basis of price currents from Bergen and other major Norwegian cities. Also Klovland used a Laspeyres approach. Since he reports monthly figures in his indices, he frequently runs into challenges with

³⁰ Minde, Kjell Bjørn 1983, *Fabrikstedet Ytre Arna: Arbeiderkår 1846-1879*, UiB, Bergen, Minde, Kjell Bjørn & Ola Honningdal Grytten 1997, "Consumption and standard of living during the industrialisation of Norway. Changes in purchasing power and private consumption, Söderberg, Johan & Lars Magnusson (eds), *Culture and consumption in the Nordic countries 1750-1950*, FHS, Helsinki, pp. 61-82, Grytten, Ola Honningdal & Kjell Bjørn Minde 1998, "The demand for consumer goods in Norway", *Scandinavian Economic History Review*, 46(1), pp. 42-58.

³¹ NOS 1965, pp. 352-355.

³² Ramstad 1982, pp. 158-238.

³³ Ellingsæther, Sverre 2007, *Konsum og priser i Norge 1871-1910*, NHH, Bergen, pp. 47-66.

gaps in his data set. This is, however, solved by using a form of a repeated sales index, relating both on substitutes and on when the last price notations of the missing commodities were taken. A similar methodology is often successfully applied in property price indices, where relevant price data is reported more infrequently than in most other price indices. Klovland applies a standard chained index when there are no gaps in his price series.³⁴

His series are built on an impressive number of observations. However, some empirical and methodological problems should be addressed. In the first place, for some months the number of observations is not adequate in order to conclude with certainty on the monthly figures. Secondly, registrations of several products are omitted in a substantial part of the price currents. Klovland has solved these problems partly by using observations from other ports and partly by using econometric approaches in order to estimate lacking observations. He also uses the previously mentioned repeated sales method for interpolating valid indices in the years of gaps in the data. All in all, Klovland's work stands as impressively solid.

When Klovland first published his numbers it became clear that the inflation in the early 1800s was significantly higher according to his than to the existing CLI-CPIs figures. This was basically a result of different splicing techniques between different currencies used during the high inflation period during the Napoleonic wars in the early 1800s. If one wants to compare the price series with the public quotes of exchange rates, Klovland's figures would be the right to use, when Grytten's price figures reflect original par values of the currencies.

During the last years new data on prices recorded in several coastal cities and towns have been made available thanks to an on-going project on establishing an infrastructure database on quantitative trade statistics.³⁵ This has made it possible to come up with new and better price data for most of the eighteenth century and the first decades of the nineteenth century. These data have been utilised by Nikita Dhawan and Eivind Langdal in order to construct

³⁴ Klovland 2018, pp. 10-13.

³⁵ www.Lokalhistoriewiki.no: Historiske toll- og skipsanløpslister.

price indices for representative consumer, production and wholesale goods covering five of the most important Norwegian ports 1737-1767.³⁶

This new indices provide us with important data on Norwegian price development during the mid 1700s. However, there are some obvious shortcomings in these series. In the first place, the recorded data series are not always persistent. This is basically due to gaps and changes in reported commodities. Secondly, different products are often reported in different ports. Thus, the index does not sit on homogenous products only. Thirdly, the prices are basically taken from price currents, and are more often export, import and wholesale prices than consumer prices.

Prices from the mining and mountain town of Røros constitute the most persistent price notations for consumption goods in the eighteenth century.³⁷ These are retail prices for employees at the supply office of the Røros copper mine recorded January 1st and July 1st every year 1737-1830. They are reported on a range of different consumer products. A problem with the dataset is that it is recorded *ex ante* and not *ex post*, i.e. the records report price lists rather than actual prices paid by the consumers.³⁸

Eli-Kristin Ølmheim and Kristin Stubhaug have utilised these lists in order to construct an annual CLI for Røros covering the period 1737-1816.³⁹ In order to minimize the problem of *ex ante* instead of *ex post* prices they use three observations for each year. Those are January 1st and July 1st the actual year. and finally January 1st the following year.

The motivation for including the first price registration from the following year is that the lists were primarily set on the basis of past prices and secondly on expected prices. Thus, these prices very much reflect actual prices during the previous half-year. By doing this one arrives at more representative prices for each year. Then by applying weights estimated on the basis of Grytten (2004) Ølmheim and Stubhaug have constructed a CLI by a Laspeyres approach. They

³⁶ Dhawan, Nikita & Eivind Langdal 2018, *Historical Price Indices and Price Shocks: Norway 1736-1766: A Macroeconomic and Historical Approach*, NHH, Bergen.

³⁷ www.Lokalhistoriwiki.no: Historiske Toll- og Skipsanløpslister.

³⁸ Sakrisvold, Ole Martin Lefsaaker 2017, *Reallønn for strevet? En undersøkelse av rørosarbeidernes levestandard 1800-1830*, UiO, Oslo.

³⁹ Ølmheim, Eli Kristin & Kristin Stubhaug 2018, *Fra prisstabilitet til hyperinflasjon: En empirisk studie av norsk historisk prisutvikling og prisintegrasjon i perioden 1737-1816*, NHH, Bergen.

use the same principles as Klovland when dealing with different currencies during the Napoleonic wars in the early 1800s, i.e. splicing price series according to exchange rates at the introduction of new currencies.⁴⁰

New CLI-CPI

On the basis of old and newly available digitalized and non-digitalized sources it is possible to construct a new and revised continuous CLI-CPI for Norway. This can cover the period from Christopher Columbus' new European discovery of America in 1492 until present times. It should make up a considerably better historical time series of Norwegian cost of living or consumer price development than any existing series. Additionally, it covers a longer period of more than five hundred years.

In order to establish such a price index we need to go via the construction of sub-indices in form of commodity and expenditure group series. All in all, these indices will enable us to conclude more correctly and more precisely on price patterns and price developments during this period longer than half a millennium.

Methodology

We use a traditional Laspeyres approach, which is standard for both CLIs and CPIs.⁴¹ Alternatively, one can use a Paasche or a Fischer price index. However, those are neither practical nor common to use in the construction of CLIs and CPIs. The Laspeyres approach implies that we choose different base years, preferably normal years towards the middle of each sub-period. This is done in order to weight the importance of the different commodities, according to how much average households spent on them. These weights are fixed during each sub-period, when the prices run annually.

Historical Laspeyres CLI-CPI indices are typically built up in three tiers or by three orders. The first order contains individual commodities. It is supposed to reflect relative changes in prices of representative commodities. These may be

⁴⁰ Ølmheim 2018, pp. 33-34.

⁴¹ Bye, Torstein & Randi Johannessen 2014a, "Levekostnader over de siste hundre år", *Økonomiske Analyser*, **33**(5), pp. 3-5.

called first order indices. The second order represents price developments for certain expenditure groups. They are constructed as weighted averages of commodity indices included in each expenditure group index. Finally, the third order is the total or the general index, where all the second order indices are weighted according to their share in consumption surveys and then summed up to one series.

Commodity indices (I_i) for each product (or commodity) (i) are constructed by calculating relative price changes from base year (b) to the index year (t) according to equation (1):

$$(1) \quad I_i^t = p_i^t / p_i^b$$

These are the first order indices. Thereafter, we establish second order indices by adding adherent commodity indices into expenditure group indices (I_g) for each product group (g). We give the corresponding commodities different weights (w) according to their relative share in a typical household budget at its time. These weights are calculated on the basis of equation (2):

$$(2) \quad w_i^b = (p_i^b q_i^b) / \sum (p_i^b q_i^b)$$

Hence, the second order indices, representing sub-indices for consumer groups, are calculated as quoted in equation (3):

$$(3) \quad I_g^t = \sum (w_i^b I_i^t)$$

Finally, to reach at a general CLI-CPI (I_L), we sum up the second order indices for the expenditure groups. We give weights to these according to their relative share of total consumption in the base years selected for each period.

$$(4) \quad w_g^b = (p_g^b q_g^b) / \sum (p_g^b q_g^b)$$

P_L then denotes the general Laspeyres price index as the sum of weighted second order price indices. Thus, we apply the third order Laspeyres formula as quoted in equation (5):

$$(5) \quad I_L^t = \sum (w_g^b I_g^t)$$

To sum up, we firstly construct micro indecies for each commodity. Secondly, we sum up these sub-indecies into expenditure group indices. Thirdly, we aggregate all expenditure group sub-indices into a general or over all index for each sub-period.

During the last years it has become common to use geometric micro indices, i.e. prices on similar products are transformed into average prices by calculating geometric means.⁴² This is basically done to adjust for negative substitution bias in the data. However, this requires a large amount of price notations on similar products or substitutes recorded at the same time. These data are not available in the vast bulk of the historical sources available. In consequence, the present work does not include any geometric approach in order to calculate price indices.

Sources

This research draws on a set of different sources to enable the construction of the new CLI-CPI. One important source is appraisal prices, kept at the state archives and city archives, predominantly in Bergen.⁴³ They report prices assumed as normal prices by public servants within regions. They were set on the basis of *ex ante* and *ex post* prices collected by public savants.

Another important source is price currents and price lists recorded in various Norwegian urban areas. A significant part of these are now published electronically and digitalized, thanks to the on-going project on constructing a

⁴² Johannesen, Randi 2001, "Mikroindeksformel i konsumprisindeksen", Notater 2001/64. Statistics Norway, Oslo, pp. 4-10.

⁴³ State Archive of Bergen, Bergen Domkapittelsprotokoller 1639-1833, City Archive of Bergen. Nordfarkladder 1709-1819, A-0581 Rb 0001, Nordfaruttrekk 1712-1819, A-0581 Ra 0001. A-620 Ra 0001, Bergens Pric-Curant for Norlandshandlerne 1739-1818.

database for Norwegian trade and price statistics covering the period from the late 1600s until 1830. The project is led by Dr Ragnhild Hutchison.⁴⁴

In addition we use price currents for key cities published at state archives and the national archive in Oslo. These basically cover the period between 1737 and 1860. They are partly taken from city archives, regional state archives and from the newly established database containing lists of exported and imported goods as well as price notations from urban areas.⁴⁵ Historical price currents were not records of sold goods. They could vary between and within different markets. However, as a rule, they were chiefly listed prices by merchants, commodity bourses, brokers or local trade authorities. They basically included and reported what was believed to be normal prices for different commodities during a period of time, e.g. months, quarters, half years or years. These currents basically reflect market prices of export and imports commodities, product and wholesale prices, and in some cases retail prices.

Another important archival source is the Professor Ingvar B. Wedervang's Historical Archive on Wages and Prices kept at the Norwegian School of Economics. Reporting more than a 1.3 million observations of prices from the 1640s and onwards until 1940. It serves as one of the richest manual archives on historical prices and wages in Europe.⁴⁶ The bulk of the data covers the period 1819-1920, and for this period it is possible to obtain consistent annual price series on a good number of commodities. These were basically retail prices compiled and reported by public servants in order to map the cost of living. The Ministry of Domestic Affairs controlled and recorded these notations until 1876. From then on Statistics Norway replaced them.⁴⁷

From 1910 and onwards, Statistics Norway serves as our most important source for both price and consumer basket data. The office collected price data from both urban and rural areas and published them in several publications,

⁴⁴ www.Lokalhistoriewiki.no: Historiske Toll- og Skipsanløpslister.
<https://databaser.lokalhistoriewiki.no/price/pricelists.jsp>

⁴⁵ www.Lokalhistoriewiki.no: Historiske Toll- og Skipsanløpslister.
<https://databaser.lokalhistoriewiki.no/price/pricelists.jsp>

⁴⁶ Grytten, Ola Honningdal 2007, "Professor Dr Ingvar B. Wedervang's Historical Archive on Historical Wages and Prices", Eitrheim. Øyvind. Jan Tore Klovland & Jan Fredrik Qvigstad (eds). *Historical Monetary Statistics for Norway*, 2, Norges Bank, Oslo, pp. 203-230.

⁴⁷ Grytten 2007, pp. 217-218.

where statistical yearbook is the most prominent.⁴⁸ From 1920 they established their own CLI, and from 1960 a CPI. These are constructed on the basis of hundreds of retail price observations and frequent consumption surveys all over the country. Consequently, we use Statistics Norway's CLI and CPI from 1920 onwards.⁴⁹

In addition, we have traced and compiled relevant and important price information in private archives, in historical and in other research literature. Most of these data report retail and wholesale prices, but also institutional, production and input prices.⁵⁰ For our purpose, we pick retail prices whenever possible, since that is what CLIs and CPIs are supposed to reflect.

For most cases the price series cover several decades. They are basically taken and reported on a monthly, quarterly, half annual or annual basis. Different sources report over-lapping prices. Thus, it is possible to cross check their validity and reliability. They are normally reported both on disaggregated and aggregated levels in respect of time and location in our sources. This is particularly the case for price observations taken from the Wedervang Archive, since it contains series aggregated by the staff of the Archive both in the 1930s and in the 1980s.⁵¹

Most prices are market prices, and consequently, valid for our study. Also, retail prices are obviously valid for our purpose. Institutional, export, import, production or wholesale prices are less valid. Thus, we prefer reliable retail prices of commodities sold to consumers whenever possible. A problem concerning the first years of the new price index is that we compile the data from a limited number of locations and for a limited range of commodities. Hence, we have to use available data, despite they are not basically reporting retail prices.

Our sources are also reliable in the way that most data were collected, cross-checked and published by different private and public bodies. However, in some cases they represent what was assumed or anticipated to be normal prices rather than market observations.

⁴⁸ NOS, *Statistical Yearbook for Norway, 1917-1923*, Statistics Norway, Oslo.

⁴⁹ Bye 2014a, pp. 3-5.

⁵⁰ Coldevin 1938, Grytten 2004a, pp. 54-61.

⁵¹ Grytten 2007, pp. 203-230.

Periodization and base years

In order to construct valid price indices over a period of more than 500 years one has to change base years along with weights for commodities and expenditure groups. The reason is that products and consumption groups change their relative importance over time. Some commodities even cease to exist over time, when others are introduced into the market.

Thus, both commodity and expenditure group weights would not only alter, but also change dramatically over time. Hence, one needs to split up in periods containing different weights both on first and second order indices. The periodization applied here, are basically chosen on the basis on available data. In fact the new CLI-CPI consists of ten different price indices, covering different periods. These are spliced into one over all price index.

For all periods we use consistent base years as reference points for price development. Quantitative weights of each commodity and expenditure group are set equal to their weight in the base year. For the CLI covering 1920-1959 and the CPI, covering 1959-2017, we use several base years, as the actual weights change over time. We apply all these different base years and splice the series together with one reference year, i.e. the price level of one of the base years. Here we have chosen 1913, which holds a wide set of prices and a solid consumption expenditure survey.

Table 2. Periodization, base years and reference years for the new CLI-CPI.

Periodization		Base years	Reference year	
1st year	Last year		Period	Spliced series
1492	1665	1600	1600	1913
1665	1736	1688	1688	1913
1736	1816	1750	1750	1913
1816	1830	1825	1825	1913
1830	1871	1850	1850	1913
1871	1910	1895	1895	1913
1910	1920	1913	1913	1913
1920	1959	1914, 1939, 1949	1939	1913
1959	1979	1959, 1968, 1974, 1979	1968	1913
1979	2017	t-1 calculations	2000	1913

Source, see appendix 1.

We seek to find normal base years towards the middle of each period in order to calculate representative series within each period. We list the major periods in table 2, with their corresponding base and reference years.

Price data

It is of course not possible to follow a fixed number of commodities during the entire period 1492-2017. The sample of products and their coverage varies a lot. For the first 150 years we have prices on a handful commodities of grain only, when Statistics Norway's CPI from 1960 onwards includes more than 1,000 products. Thus, the latter index, refined from 1979, represents a wide spectre of consumption commodities and should be considered a full bread consumer price index.⁵²

The most important difference between the old and the new CLI-CPI presented here is found in newly compiled and digitalized price currents for the eighteenth and parts of the seventeenth and nineteenth century. The increased availability of data enables writers on Norwegian economic history to conduct quantitative studies on a period, which with few exceptions has been neglected hitherto.⁵³

1492-1665

The price data for this first period are very scarce, in as much as they cover grain only. In 1888 the Norwegian economist Torkel Halvorsen Aschehoug published a research paper on historical development of Norwegian prices of grain since Christopher Columbus' rediscovery of America. His data basically include domestically produced grain of oat, barley and maslin (basically mix of barley and oat) and imported rye, oat and barley, i.e. six commodities. Until 1640

⁵² www.ssb.no: publikasjoner konsumprisindeksen, Om statistikken.

⁵³ Hutchison, Ragnhild 2012, *In the Doorway to Development: An Enquiry into Market Oriented Structural Changes in Norway ca. 1750-1830*, Library of Economic History, 3, Brill. Leiden & Boston, 244 pp.

Aschehoug collected more or less random prices from different kinds of public institutions, many of them were indicative prices set by public servants.⁵⁴

His most important sources were the garrisons at Bergen Castle and the Akershus Castle in the capital Christiania, public accounts kept by bishops, and finally, local church parish accounts. Most of his data were compiled from the two major cities Bergen and Christiania (Oslo), and the most populated rural county, i.e. Akershus. From 1641 onwards, Aschehoug basically compiled appraisal prices for his series. Local public servants collected these by decree from the central administration. Again, these were from the Bergen, Oslo and Akershus area. But also included counties in the Oslo-fiord area.⁵⁵

For some years prior to 1641 one finds lacunas in the Norwegian sources. Aschehoug chose to use Danish price records to fill in these gaps, reasonably arguing that the two countries had a common market on imports of grain as well as they belonged to a currency union. The Danish central administration also controlled a grain monopoly in Norway for most of the time. except for the late 1600s and early 1700s.⁵⁶

In the 1930s staff of the Wedervang Archive at the Norwegian School of economics in Bergen included Aschehoug's price data in the records of the archive, along with other notations of prices on different types of crops from 1641 and onwards.⁵⁷

1665-1736

From 1665 and onwards, the number of items we have been able to include in our index gradually increased from 13 to 28 commodities. They are basically reporting grain, fish, vegetables, beverages and colonial goods, manufacturing goods, leather, fure and skin. These were basically reported as merchant prices

⁵⁴ Aschehoug 1888, pp. 81-116.

⁵⁵ Aschehoug 1888, pp. 86-92.

⁵⁶ Falbe-Hansen, Vigand Andreas 1869, *Hvilke Forandringer er der siden Amerikas Opdagelse foregaaet i Priserne paa Danmarks væsentlige Frembringelser, og i Arbejdslønnen, og hvilken Del kan der tilskrives de ædle Metalleres Mængde i disse Forandringer? En statistisk Undersøgelse*, Gad, København, Scharling, William 1869, *Pengenes Værdi ved danske Aktstykker samt ledsaget af en kort Udsigt over den danske Mønthistorie*, Gad, København.

⁵⁷ Wedervang Archive, file W155.

from Bergen or appraisal prices in parishes in western Norway.⁵⁸ The latter were collected by local vicars and reported and to the bishop in Bergen, whom was responsible for systematizing them.

Appraisal records are dominant until 1709. Thereafter, merchant prices make up the bulk of the data.⁵⁹ At this stage we are also able to trace important price materials for Christiania, Christiansand, Arendal, Fredrikstad and Drammen in the newly established database on historical trade and prices. These are in the form of price currents.

Trusted brokers and merchants set these price lists on the basis of their observations of market prices at the time. Usually, they met and negotiated standard prices once a month, quarterly or at some times every half-year in order to find and record the typical market prices at the time.⁶⁰ These data are scarce. However, they serve as supplement for the already established data and contribute to make our series constructed on the basis of more valid data available.

A list of external traded goods in the town of Arendal, located at the south coast, is shown in illustration 1. Along with these lists price currents were compiled in order to record price levels and movements. Price currents could convey export, import, wholesale and retail prices of central and representative commodities. They hardly ever mirrored calculated average *ex post* prices. Rather, they reflected anticipated and indicative normal *ex ante* prices set by central merchants or brokers. Still, they clearly serve as some of the best data sources we have on historical prices during the last decades of the seventeenth century, the full eighteenth century and the first decades of the nineteenth century.⁶¹

⁵⁸ State Archive in Bergen, Bergen Domkapittelsprotokoller 1639-1933, Wedervang Archive, files W051, W155, W210 and W217.

⁵⁹ The City Archive in Bergen, Nordfarkladder 1709-1819, A-0581 Rb 0001, Nordfaruttrekk 1712-1819, A-0581 Ra 0001, A-620 Ra 0001, Bergens Pric-Curant for Norlandshandlerne 1739-1818, Coldevin 1938, Wedervang Archive, files W051, W155, W210 and W217.

⁶⁰ [www.Lokalhistoriewiki.no: Historiske Toll- og Skipsanløpslister, https://databaser.lokalhistoriewiki.no/price/priceLists.jsp](https://databaser.lokalhistoriewiki.no: Historiske Toll- og Skipsanløpslister, https://databaser.lokalhistoriewiki.no/price/priceLists.jsp)

⁶¹ [www.Lokalhistoriewiki.no: Historiske Toll- og Skipsanløpslister, https://databaser.lokalhistoriewiki.no/price/priceLists.jsp](https://databaser.lokalhistoriewiki.no: Historiske Toll- og Skipsanløpslister, https://databaser.lokalhistoriewiki.no/price/priceLists.jsp)

Illustration 1. List over exported and imported goods to Arendal 1686.

The image shows an open historical ledger book with two pages of handwritten entries. The left page is titled 'Arendal' and the right page is titled 'Wigaande Naare'. Both pages have columns for 'Aare', 'Blaa', and 'Gulde'. The entries are organized into sections with various sub-headers and numerical values in different currencies.

Source, www.Lokalhistoriewiki.no: Historiske Toll- og Skipsanløpslister.

A price current from the small town Holmestrand, along the southeastern coast, from January 1720 and one from the second largest city, Bergen, from August 1848 are shown in illustration 2. Contrary to the larger ports the price currents from the smaller ports only contain price observations of a few key products. As for Holmestrand, they reported seven basic food commodities only.⁶² This limited coverage represents the case for most local price currents at the time. Since most of the locations that reported price currents were quite small, mostly with less than 1500 inhabitants.⁶³

However, we find significantly richer data from larger cities like Christiania, Fredrikstad, Arendal. Christiansand and Bergen, and from more market regulated towns like the northeastern mountain and mining town of Røros. This is shown in illustration 3.

⁶² www.Lokalhistoriewiki.no: Historiske Toll- og Skipsanløpslister, <https://databaser.lokalhistoriewiki.no/price/priceLists.jsp>

⁶³ Helle, Knut, Finn-Einar Eliassen, Jan Eivind Myhre & Ola Svein Stugu 2006, *Norsk byhistorie, urbanisering gjennom 1300 år*, Pax, Oslo.

We also use additional price data compiled by Axel Coldevin on the basis of merchant records and price currents from Bergen.⁶⁵ These data have now been included in the Wedervang Archive.

1736-1816

The statistical basis of our new price index improves significantly in 1736 and even more so from 1737 onwards. We have been able to follow annual prices of 60 products for most of the period 1736-1816, representing ten different expenditure groups. These groups are grain; flour and bread; vegetables, fruits and berries; dairy products; meat; fish; beverages and tobacco; colonial goods; clothing and footwear; and finally fuel and lighting.

This significant improvement basically stems from the rich price data recorded in the previously mentioned on-going trade and price statistics database project.⁶⁶ We have been able to use records of consumer prices recorded at the supply office in the mining town of Røros in northeastern Norway along the entire period.⁶⁷ In addition we have compiled data from digitalized price currents recorded at the west coast city Bergen from 1767 onwards. This was by far the biggest Norwegian city with the largest retail markets and capital for business and trade at the time.⁶⁸

Admittedly, we find some gaps and statistically weaker periods in the data. However, we have been able to construct persistent annual series on the basis of price currents from coastal ports and notations of prices on substitute products to the ones missing both for Røros and Bergen.⁶⁹ Thus, we use price currents from coastal ports to fill in lacunas and in other to interpolate. In addition and we also draw on these price notations in times of turbulent price developments, i.e. 1740-1749, 1756-1759 and 1763-1765. In these years products from 6-18 ports and market places all together are weighted equally to

⁶⁵ Coldevin 1938, p. 206-220.

⁶⁶ [www.Lokalhistoriewiki.no: Historiske Toll- og Skipsanløpslister, https://databaser.lokalhistoriewiki.no/price/pricelists.jsp](https://databaser.lokalhistoriewiki.no/price/pricelists.jsp)

⁶⁷ [www.Lokalhistoriewiki.no: Historiske Toll- og Skipsanløpslister, https://databaser.lokalhistoriewiki.no/price/pricelists.jsp](https://databaser.lokalhistoriewiki.no/price/pricelists.jsp)

⁶⁸ The State Archive of Bergen, Bergens Pric-Curant 1767-1818, made available by Ragnhild Hutchison.

⁶⁹ Ølmheim 2018, pp. 24-28 and 85-96.

the Røros prices. Additionally, they serve as sources for establishing a few commodity series, which lack sufficient support in the Røros and Bergen data sources.⁷⁰

The Røros data in principle consist of *ex ante* prices, since they are price lists given at the supply office for the coming six months. They were published the 1st of January and 1st of July almost every year. Normally these notations served as indicative prices, and they were for most years followed closely. However, they could be replaced by deviant short-term prices in times of high inflation or strong deflation. Nevertheless, they were set on the basis of historical prices and contemporary prices at the time of the publication of the price lists.

In order to get a grip on the price developments during the last half-year between July 1st and December 31st we also apply the price list of January 1st the coming year. This was in reality decided during December the previous year. Thus, we in reality more or less take three observations per year into consideration.⁷¹

Additionally, the supply office had retail monopoly in Røros. However, illegal trade was quite common, and in 1801 privileges were given to a handful merchants in order to conduct trade in the mining town. Still, the supply office was the main provider of consumer goods.⁷² The competition and the increase in the inflation rate in the early 1800s, however, must have caused the office to alter the prices relative to the listing prices. This has been taken into consideration by using the list prices of January 1st the following year, set on the basis of the actual prices during the second half of the previous year.

Illustration 3 shows a price list from the supply office of the Røros mining company from December 31st 1760. It was supposed to serve as a more or less fixed or strongly indicative price list for employees and affiliated workers during the first half of the coming year 1761.

The available price currents from Bergen covering the period from 1767 onwards in principle reported export, import, wholesale and production prices. However, they were set in what we can consider close to a spot market, and they

⁷⁰ Dhawan 2018, pp. 66-102.

⁷¹ Ølmheim 2018, pp. 29-32 and 85-96.

⁷² Sakrisvold 2017, pp. 34-43.

contain some price data that should be considered indicative prices for retail sale to consumers.

Illustration 3. Supply office price list for Røros.

The image shows a handwritten price list on aged paper. At the top, it is titled 'Nødvandts Tæst' and 'Per Røros Raaber Høst'. Below the title, there are two columns of handwritten text listing various goods and their prices. The list includes items like flour, oil, and other provisions. At the bottom of the page, there is a signature and a red wax seal.

Source, www.Lokallhistoriewiki.no: Historiske Toll- og Skipsanløpslister

Price lists for a coming period, mostly for the coming month, were established on *ex post* price observations recorded in previous periods, $t-n$, where $t-1$, i.e. the last period was the most important. Thus, these price currents reflect the movements of the actual price level. Prices were typically recorded as average prices estimated by eight to ten trusted brokers in Bergen. These were of different nationalities: German, Dutch, British and Norwegian. They reflect the fare share of the market. From the late 1830s The Bergen Exchange took over the responsibility for collecting data and publishing the price currents. We basically use wholesale prices from the city, which are closest to retail prices. Additionally, a significant part of them could, as mentioned above, be considered retail prices.⁷³

When we have been able to use the Røros supply price lists from 1736 onwards, we also use the Bergen price currents from 1767 onwards. In addition

⁷³ Klovland 2018, pp. 185-211, The State Archive of Bergen, Bergens Pric-Curant 1767-1818, made available by Ragnhild Hutchison.

we use, as mentioned previously, price observations from 9-18 ports and market places to fill in gaps and in turbulent times with less reliable data from Røros.⁷⁴ This means that the new CLI basically consists of prices from the inland town of Røros, supplemented with data from various coastal ports for the period 1737-1767. Thereafter, we chiefly use average prices from both Røros and Bergen. The two are weighted equally. However, for some commodities we have data from one of these locations only. In addition, again we use complementary prices from other ports and market places along the coastline From Trondheim in the middle of the country to Fredrikstad in the south-east in order to close lacunas in the data sets.⁷⁵

1816-1830

The next period, 1816-1830, was, like the early 1800s, a very turbulent period in international, Scandinavian and Norwegian economic history. Prices and currency exchange rates fluctuated widely. Thus, it is quite complicated to construct relevant price indices for this period. However, it is possible to do so on the basis of the listed prices from the Røros supply office, the Bergen price current and complementary sources.⁷⁶

We have been able to follow 44 consumption commodities during this period of time. Thus, they are included in our index covering the 1816-1830 period. The commodities represent ten different expenditure groups, i.e. grain; flour and bread; vegetables fruits and berries; dairy products; meat; fish; colonial goods; beverages and tobacco; clothing and footwear; and finally, fuel and lighting.

The sources of these data are already presented in the elaboration of the data for the 1736-1816 period. However, it should be noted that the Bergen price currents become even more important in the index for this period, when the Røros data cease in coverage. Also, the Røros data here represent a period of more competition within retail trading in this important inland mining town.

⁷⁴ [www.Lokalhistoriewiki.no](https://databaser.lokalhistoriewiki.no/price/pricelists.jsp): Historiske Toll- og Skipsanløpslister.
<https://databaser.lokalhistoriewiki.no/price/pricelists.jsp>

⁷⁵ [www.Lokalhistoriewiki.no](https://databaser.lokalhistoriewiki.no/price/pricelists.jsp): Historiske Toll- og Skipsanløpslister.
<https://databaser.lokalhistoriewiki.no/price/pricelists.jsp>

⁷⁶ The State Archive of Bergen, Bergens Pric-Curant 1767-1818, made available by Ragnhild Hutchison.

Thus, the indicative prices in the lists were probably not as precise as in previous lists.

We also use records from price currents elsewhere to interpolate in order to fill in gaps in the time series. These latter data are still compiled from the trade statistics project carried out by the independent research group on historical infrastructure on trade lists, wages and prices.⁷⁷ Admittedly, also these data cease in magnitude from 1800 onwards. However, still some observations exist, mostly from ports in west and mid-Norway. The two most common providers of data after Bergen and Røros, were the cities of Trondheim (Trondhjem) and Stavanger.

The first of these cities, Trondheim, is located close to the geographical centre of Norway, when Stavanger is located along the southwest coast. They respectively, also served as the third and fourth biggest cities in the country. Today they make up the popular and economic dominant cities in their respective regions. Trondheim even hosted the headquarters of the Norwegian central bank 1816-1897.⁷⁸ We also use historical fish prices recorded by Professor Trygve Solhaug and the inspector of fisheries in the late 1800s, Fredrik Meltzer Wallem.⁷⁹

It should be noted that the series covering this period is weaker in their statistical basis than those for the previous time span 1736-1816. However, also the 1736-1816 series have their weak spells, i.e. basically the period 1800-1816. when the data coverage is more limited than before 1800. Nevertheless, the new CLI covering the years 1816-1830 stands out as considerable better and more valid and reliable than those constructed previously.

⁷⁷ www.Lokalhistoriewiki.no: Historiske Toll- og Skipsanløpslister, <https://databaser.lokalhistoriewiki.no/price/pricelists.jsp>

⁷⁸ Øksendal, Lars Fredrik 2008, "Trondhjem som hovedsete for Norges Bank – noen faktiske og kontrafaktiske betraktninger", *Staff Memo* (8), Norges Bank, Oslo.

⁷⁹ Solhaug, Trygve 1976, *De norske fiskeriers historie 1815-1880*, Universitetsforlaget, Oslo, pp. 713-722, Wallem, Fredrik Meltzer 1888, *Handelen med fersk fisk paa endel større udenlandske Markeder*, Centraltrykkeriet, Kristiania, pp. 181-186, Wallem, Fredrik Meltzer 1893, *Handelen med Tørfisk og Klipfisk*, Fabritius & Sønner, Kristiania, pp. 201-205.

1830-1871

In the existing CPI-CLI constructed for the Norwegian central bank, the indices covering the period 1830-1871, stand out as far better than those constructed for previous years.⁸⁰ This is basically so due to the larger coverage of the data. However, it is still possible to improve the price index for this period due to new research on prices and consumption as well as more data available.

In the new CLI presented here we include 71 commodities, still representing ten expenditure groups, those are grain; flour and bread; vegetables, fruits and berries; dairy products; meat; fish; beverages and tobacco; colonial goods; clothing and footwear; and finally, fuel and lighting. These represent the bulk of actual consumption at the time.

The fair share of the data is taken from reported market prices on consumption items. These were basically retail prices recorded at market places and general prices on consumption items recorded by the local magistrates in up to 40 urban communities around the country.⁸¹ They were taken by public servants and assembled and quality checked by local magistrates at least quarterly. Thereafter, they were reported to the Ministry of Domestic Affairs, which again quality checked and filed the different price observations as tools of social and taxation statistics.

They should be considered valid and reliable for our use, as they represent homogenous commodities collected at the same time by the same means and definitions in markets covering most of the country. Their reliability should be equally good, as they are recorded under strict supervision and have been through a double set of quality checks.

In the 1930s these data were included into the Wedervang Archive kept at the Norwegian School of Economics in Bergen. Because of their uniqueness and availability they have served as the major sources for most research based cost of living indices for nineteenth century Norway.⁸²

Other sources are price currents and similar price quotations on normal prices per month. They are also to a large degree kept in the Wedervang Archive.

⁸⁰ Grytten 2004b, pp. 61-79.

⁸¹ Wedervang Archive, file W272.

⁸² Grytten 2007, pp. 203-230.

These price quotations report prices on wholesale and consumption commodities in important markets of its time, e.g. Christiania, Bergen, Trondheim, Stavanger, Kristiansand, Fredrikstad, Drammen, Kristiansund, Aalesund, Bodø, Tromsø and other key locations⁸³ The data were to a great extent compiled on a monthly basis. The original sources were basically public records compiled by public servants, notations from market brokers, price lists and price currents from retail merchants.⁸⁴

We also draw information on prices on imported grain and flour as these made up a significant part of the household consumption. Such prices were recorded in the most important import ports 1835-1910 and statistically processed and published by Statistics Norway in 1915. Admittedly, these prices are not retail prices. However, we only use them as supplement to the reported retail prices on grain.⁸⁵

Illustration 4 shows a manually recorded file from the Wedervang Archive, containing monthly and quarterly price data on representative retail goods from towns and communities all over the country during the nineteenth century.

As important supplements to these sources we apply listed market prices from Kristiania (Oslo), compiled by public servants and officials connected to the Kristiania Exchange. The statistical office of the city reported these on a monthly basis.

In addition we utilise rich data sets of fish prices compiled by the inspector of fisheries Fredrik Meltzer Wallem and Professor Camilla Brautaset. The latter of these two has more than anybody else done research into Norwegian export prices in the nineteenth century.⁸⁶ We also use Solhaug's data on fish prices as supplement to the data compiled from Wallem and Brutaset.⁸⁷

⁸³ Wedervang Archive, files W051, W131, W269, W271, W383 and W397.

⁸⁴ Wedervang Archive, file W269.

⁸⁵ NOS 1915, pp. 3*-5*.

⁸⁶ NOS 1978, pp. 523-525, Wallem 1888, pp. 181-186, Wallem 1893, pp. 201-205, Brautaset, Camilla 1998, *Norsk eksport av fisk. I perspektiv av historiske nasjonalregnskap*, NHH, Bergen, pp. 132-168.

Brautaset, Camilla 2002, *Norwegian Exports in Perspective of Historical National Accounts*, NHH, Bergen, pp. 63-71 and 97-114 239-241 and 256.

⁸⁷ Solhaug 1976, pp. 713-722.

Illustration 4. Price list on retail commodities from the Wedervang Archive.

Handwritten Description	Kroner	Riksdaler	Koppar	Koppar
25.63 7	23.46	24.70	26.45 8	16155 1
28.29 11	11.59	30.15	32.20 8	22.63 7
27.96 12	14.19	25.76	28.77 8	21.62 9
18.43 11	17.59	17.51	23.59 6	17.01 12
16.75 9	19.19	16.23	19.18 6	14.94 1
13.43 12	19.19	19.84	14.81 1	14.54 12
15.00 12	17.38	15.12	15.59 5	14.88 5
16.29 10	19.02	16.54	17.46 7	16.18 6
19.85 9	24.48	20.31	21.90 1	20.66 3
27.25 5	22.98	26.37	26.42 6	24.19 7
22.73 9	17.19	25.11	24.92 3	24.89 4
19.08 9	18.80	18.82	17.94 5	17.58 6
18.77 12	15.49	20.43	21.03 3	21.57 7
15.83 12	14.81	16.33	17.66 8	17.20 6
15.17 12	14.46	16.14	17.35 7	16.42 7
16.07 11	20.49	16.98	17.60 9	15.95 8
17.55 9	27.47	21.34	21.03 8	20.04 6
24.81 7	20.70	-	22.24 1	24.48 2
20.41 2	17.09	18.45	19.01 7	19.79 7
17.16 9	16.94	18.12	19.24 9	19.87 10
16.77 9	17.32	18.90	19.36 8	19.64 4
16.36 9	22.01	18.15	19.36 7	18.56 6
23.50 9	27.27	23.01	19.71 9	19.02 8
29.13 9	26.38	28.26	22.54 2	24.54 3
31.41 1	29.50	31.20	23.12 9	24.57 3
28.76 1	25.82	29.15	22.54 6	22.28 2
26.54 1	20.41	23.45	22.28 1	22.73 7
-	19.27	20.89	23.96 4	22.73 7
30.16 5	20.81	20.81	20.78 5	21.95 3
24.98 9	23.66	24.21	-	20.75 3
25.88 2	26.22	26.22	-	24.18 6
25.47 2	22.87	24.39	-	28.16 4
-	19.76	20.25	22.45 7	20.72 7
-	19.40	17.84	-	18.71 4
-	17.66	-	-	17.63 5
-	21.74	-	-	-
-	23.83	-	-	-
-	26.87	-	-	-
-	22.20	-	-	-
22.35 6	20.41	-	-	21.27 9
25.36 12	32.43	-	-	-
24.86 11	-	-	-	24.12 4

Source, Wedervang Archive. W269.

The ministry of internal affairs exchange rate adjusted some of the data compiled before 1843.⁸⁸ In order to make this series relevant for a CPI-CLI they have been readjusted back to their current values according to historical exchange rates reported by the Norwegian central bank, Norges Bank.⁸⁹

1871-1910

As for the period 1870-1910, the available price data make it possible to include two more expenditure groups, i.e. transport and communication and housing. In addition we are able to increase the number of representative goods from 71 for the period 1830-1871 to 111 for 1871-1910. When this index include

⁸⁸ Wedervang Archive, files W269 and W271.

⁸⁹ Grytten 2004b, pp. 61-79.

significantly more commodities than those constructed for the previous periods, it lacks the nation wide coverage for some time spells and commodity series.

We use 55 of the commodity price series from notations compiled in Kristiania (Oslo).⁹⁰ These made up all the commodities in Jan Ramstad's price index constructed for Kristiania (Oslo) in 1982.⁹¹ Sverre Ellingsæther has additionally been drawing on price information from 24-40 different locations all over the country in order to construct a price index including 96 representative commodities. We include these data in our new series. Thus, the new index has a better coverage both in respect of numbers and geography compared to Ramstad's index.

Ellingsæther constructed his index by adding new observations to Ramstads index. The present CLI presented here rest on both the Ramstad and the Ellingsæther indices.⁹² Additionally, we include series of another 15 commodities. These data are taken from private archives and the Wedervang Archive. They report prices in major cities like Kristiania, Bergen, Trondheim, Stavanger, Kristiansand, Drammen, Tromsø, Fredrikstad, Kristiansund, Aalesund and Hamar.⁹³

We have also discovered some errors in the previously compiled data sets. These have been corrected in the new index. A wider set of sources has also made it possible for us to make better interpolations than done previously. The interpolations are basically carried out by following the annual trends of substitutional representative goods in the years of gaps in the data.

The bulk of the data compromising our new CLI are notations of monthly and in some cases quarterly market place prices from major cities, but also some medium sized and smaller communities. All the main market places in the four largest cities, Kristiania, Bergen, Trondheim and Stavanger are included. The second most important source is prices recorded by local public servants and Statistics Norway. Other primary sources are public institutions, e.g. hospitals, prisons, schools, social institutions and public ministries. We also derive data

⁹⁰ Wedervang Archive, files W051, W128, W137, W139, W206, W213, W219, W258, W275, W276, W382, W383, W384, W387, W396 and 397.

⁹¹ Ramstad 1982, pp. 158-238.

⁹² Ellingsæther 2007, pp. 47-66.

⁹³ Wedervang Archive, files W272 and W383, Hodne, Fritz & Ola Honningdal Grytten 1997, *Sporveien i Bergen 1897-1997*, Bodoni/Centraltrykkeriet, Bergen, pp. 373-374.

from private companies and archives. These data are all recorded in the Wedervang Arhive and published in the central bank's CLI from 2004 and in Klovland's price indices.⁹⁴

Most of the prices in this new CLI are retail prices, but obviously substantial parts of our data are recorded wholesale and institutional prices.⁹⁵ This makes the validity of the series good, but not perfect. It is by far margin better than any previously constructed CLIs for this period. Surely, the reliability of the data seems to be quite good, as the bulk is reported and controlled by public decree or as private or public institutional accounting information.

In conclusion, we consider the new annual price index, covering 1871-1910, as a valid and reliable CLI. It certainly represents a considerable improvement compared to existing indices for this period. Its representativeness has increased substantially regarding geography, commodities and expenditure groups compared to previously constructed CLIs for these years.

1910-1920

This period constitute a somewhat problematic period for the construction of CLIs for Norway. In the first place, 1914-1920 represents a high inflation period due to the stressed economic situation during the First World War and strong inflationary monetary policy during the war.⁹⁶

Secondly, the period in some sence represents a vacuum in cost og living indexing. The Statistical Office of Kristiania constructed its own CLI for the period 1901-1916, including 57 commodities and six expenditure groups, i.e. food; fuel and lighting; clothing and footwear; rent; and miscelanuous.⁹⁷ Thereafter, the Ministry of Social Affairs produced its own price index, including 53 commodities. In order to map the cost of living during the last years of war

⁹⁴ Wedervang Archive, file W386, Grytten 2004a, pp. 79-93, Klovland 2018, pp. 185-211.

⁹⁵ Klovland 2018, pp. 185-211.

⁹⁶ Eitrheim, Øyvind, Jan Tore Klovland & Lars Fredrik Øksendal 2016, *Monetary history of Norway*, Cambridge University Press, Cambridge, pp. 263-300.

⁹⁷ Statistical Office of Kristiania 1916, *Fortsættelse av specialundersøkelse nr III angaaende prisbevægelsen på livsfornødenheter i Kristiania samt statistiske opgaver angaaende de kommunale funktionærers forsørgelsesbyrde*, Specialundersøkelser V, J. Chr. Gundersens boktrykkeri, Kristiania, pp. 1-19.

and until the budget year 1918/1919. At that point Statistics Norway took over the task.⁹⁸

Both the Ministry of Social Affairs' and the Kristiania Statistical Office's indices were constructed on the basis of a consumption survey for some of the largest regional cities in Norway in 1912 and 1913. These were Kristiania, Bergen, Trondheim, Kristiansand, Drammen and Hamar.⁹⁹ Both the Oslo index and the Ministry of Social Affairs index included continuous price observations on more than 50 commodities. The latter was recorded in 16 large and small communities all over the country.¹⁰⁰

Again, our new price index for this period sits on these data. By combining them and including additional sources we are able to include 125 representative commodities. These represent 13 expenditure groups. Those are grain; flour and bread; vegetables, fruits and berries; meat; fish; dairy products; colonial goods; beverages and tobacco; clothing and footwear; fuel and lighting; housing; transport and communication; and finally medical care and health. This rich coverage makes this index almost fully represent a typical household's consumption in the period.

The most important source for our data is Statistics Norway, which compiled monthly price data from 6-16 key urban areas for this period. These were basically published in the Statistical yearbooks and in the bulletin of social statistics.¹⁰¹ In addition Statistics Norway published branch price data for some main industries, such as agriculture and fisheries in addition to house rents.¹⁰² By reorganising these data it is possible to construct a set of price indices for wholesales, exports, imports, production and consumer prices.

In addition we still draw on price observations reported in the Wedervang Archive, private archives and branch organizations, such as the national association for dairy producers.¹⁰³ Most of these data have been scrutinised by historians before. In consequence, their reliability have been

⁹⁸ Bye 2014b.

⁹⁹ Statistical Office of Kristiania 1915.

¹⁰⁰ Det Statistiske Centralbyrå 1911, "Priser i smaasalg på endel vigtigere forbruksartikler", *Månedsskrift for Socialstatistik*, 1(10-11), Kristiania, Statistics Norway, pp. 166-175.

¹⁰¹ NOS, *Statistical yearbook for Norway, 1910-1923*, Statistics Norway, Oslo.

¹⁰² NOS 1978, pp. 523-536.

¹⁰³ Mork, Rasmus P, 1941. *Melkeomsetning og meieridrift i Norge 1930-1940*, NML, Oslo 1941, pp. 277-278.

checked and approved by experts in the field. When it comes to validity the data set we use is definitely better than those for the previous time periods presented here. Most of the price notations are retail prices on sale to consumers. Thus, they suit the purpose very well. Admittedly, we use some wholesale or market place prices to fill in lacunas or establish some of the less central series.¹⁰⁴ However, the extent of these kinds of operations are limited.

In consequence, we conclude that the new CLI for the period 1910-1920 is far better than previously calculated CLIs for this period. Hence, it probably reflects the development of consumer prices for this period in a satisfactory manner.

Interpolations

In some of the series, in particular those which are stretching way back in time, we find, as already mentioned, gaps in the data. To some extent we fill these by drawing on alternative sources. For the two decades previous to 1800 we use price information given in the travel descriptions and dairies of Mary Wollstonecraft (1795), Thomas Robert Malthus (1799) and Edward Daniel Clarke (1799).¹⁰⁵ These distinguished scholars and writers all visited Norway towards the end of the eighteenth century. As for the first half of the nineteenth century, we find valid data in the books of Anton Martin Schweigaard og Maximilian Braun Tvethe, who both gave quantitative descriptions and estimates of the size of the Norwegian economy for the first half of the nineteenth century.¹⁰⁶

However, we have to do several interpolations on commodity level. This is basically done by finding a weighted average of substitutes, i.e. commodities which are closest to the missing ones regarding use, attributes and price development. As an illustration, we for a shorter period during the 1700s chain

¹⁰⁴ Klovland 2018, pp. 185-211.

¹⁰⁵ Wolstonecraft, Mary 1796, *Letters Written During a Short Residence in Sweden, Norway, and Denmark*, Joseph Johnson, London, James, Patricia (ed) 1968, *Thomas Robert Malthus' Reisedagbok fra Norge 1799*, translated to Norwegian by Thor Bryn, Oslo, Clarke, Edward Daniel 1816, *Travels in various countries of Europe, Asia and Africa: Scandinavia*, **9-11**, Cadell & Davis, London.

¹⁰⁶ Schweigaard, Anton Martin 1840, *Norges Statistik*, Johan Dahl, Christiania, Tvethe, Maximilian Braun 1848, *Norges Statistik*, Chr Tønsbergs Forlag, Christiania.

the movements of North-German rye with Danish rye prices, when Danish observations are missing.

In some cases we also let production or wholesale prices serve as indicators of price movements for missing data in our series. This is possible by drawing on our alternative sources and to a large extent on Klovland's extensive work on historical price indices.¹⁰⁷ And as mentioned previously, up until the early 1700s, we still use some Danish prices in order to interpolate gaps in our data.¹⁰⁸

1920-1959

As for the years from 1920 and later, we do not establish any new price index. This is due to the solid work on price indices by Statistics Norway from that time onwards. For the first more than 40 year-period, 1919-1960, the bureau constructed a CLI. They first compiled prices of 120 representative commodities from 1920. In 1928 the number increased to 180. After The Second World War the commodity sample included in the index passed 340 in 1949. and finally it passed 700 in 1959. Thus, most of the relevant consumption goods and services were represented in the index.¹⁰⁹

As standard procedure, Statistics Norway applied the standard Laspeyres approach to their CLI. However, their emphasis on consumption surveys made it possible to change base year more often than in the historical indices. This of course strengthen their index compared to those prior to 1919/1920. Their general index is an aggregation of a variation of sub-indices for different expenditure groups. Nevertheless, they could easily be summed up in seven sub-indices, representing food; beverages and tobacco; fuel and lighting; gas and electricity; clothing; house rent; and other or miscellaneous commodity expenditure.¹¹⁰

Also, the geographical coverage of the bureau's indices increased significantly over time. In 1919 prices were taken from retail salers in 16

¹⁰⁷ Klovland 2018, pp. 164-211.

¹⁰⁸ Falbe-Hansen 1869, Scharling 1869, Abildgren 2010, pp. 2-24.

¹⁰⁹ NOS 1995, pp. 289-293.

¹¹⁰ NOS 1995, p. 298.

representative urban areas. It increased to 26 urban areas the following year. The town sample reached 31 in 1928, and 53 in 1949. Finally, it included 100 densely populated communities and areas in 1959.¹¹¹

Still, the choice of commodity weights, consumption items and the choice of urban retail prices revealed that the index reflected the cost of living for common working class households. This is also reflected in the title given to this index, i.e. Statistics Norway's Cost of Living Index, which after The Second World War was considered a fairly detailed, valid and reliable CLI of its time compared to similar indices for other western countries.¹¹²

1959-1979

Statistics Norway adopted a consumer price index from 1959. The major difference from the previous cost of living index was that the new index reflected consumption costs not only for working class households, but for all households. In addition they added price data and consumption surveys including both urban and rural areas.¹¹³ They introduced new commodities and expenditure groups, reflecting more of the steadily increasing consumption volume of services and luxurious goods.

The basis for the new index was household consumption surveys, decisive both for which representative commodities to include and their weight in the index. This demanded such surveys to be taken regularly. Consumption expenses were registered by means of detailed accounting and in some cases interviews. The net sample has varied from 1,000 up to 1,500 households.

The index holds a sample of approximately 1,000 representative commodities. Corresponding prices have been collected from a representative sample of retailers and service establishments. In sum, Statistics Norway compiled 40,000 – 45,000 price observations per month. The data was thereafter summed up to a variation of sub-indices dependent on different time periods. However, these were often presented in ten expenditure groups, i.e. food; beverages and tobacco; clothing and footwear; rent with fuel and heating;

¹¹¹ Bye 2014b, pp. 1-2.

¹¹² Grytten 2004a, pp. 71-73.

¹¹³ Johannessen, Randi 2014, "Konsumprisindeksen – en levekostnadsindeks", *Økonomiske analyser*, **33**(5), pp. 13-16.

furniture and household equipment; medical care and health; transportation; recreation and education; and other goods and services, also denoted miscellaneous products.¹¹⁴

1979-2017

Statistics Norway has refined its CPI from 1979 onwards by revising and adding extra expenditure groups and introducing t-1 calculations, i.e. the weights of different commodities and expenditure groups are revised according to estimated consumption per year.¹¹⁵

Additionally, Statistics Norway has modernized their CPI significantly during the last decades. It has in principle been transformed into a chained t-1-index, indicating a form of a chain index with annual splicing of the index values by moderating the weights based on continuously updated consumption data. On the top of that, they apply geometrical indices at the micro level. This is done for several reasons, e.g. to take price motivated substitution effects for consumers more into account. The CPI has also been more standardized according to international standards and applications, which makes it more comparable with other countries series.¹¹⁶

Finally, Statistics Norway also included several versions of this new CPI. Still, the general index serves as the basic parameter for calculated inflation and deflation. This index is made up by several sub-indices according to expenditure groups.¹¹⁷ Before that, by the introduction of inflation targeting as a principal goal for the monetary policy from March 2001, one gained renewed interest in core inflation. Hence, Statistics Norway started the production of price indices adjusted for energy commodity prices and direct taxes on commodities. This index, denoted CPI-JAE, now serves as the indicator for inflation targeting in Norway.

¹¹⁴ Hov, Kjersti Nyborg & Camilla Rochlenge 2014, "Fra nødvendighet til forlystelsesgoder", *Økonomiske analyser*, **33**(5), pp. 17-20.

¹¹⁵ <https://www.ssb.no/statbank/table/03014/>

¹¹⁶ Rønnevik, Pia Skare 2014a, "Etablering av harmonisert konsumprisindeks med konstante avgifter (HKPI-CT)", *Notater*, 2014/24, Statistics Norway, Oslo.

¹¹⁷ Rønnevik, Pia Skare 2014b, "Flere mål på underliggende prisvekst i Norge", *Økonomiske analyser*, **33**(5), pp. 26-33.

Coverage

The new price index has substantially better coverage than previous historical CLIs and CPIs.¹¹⁸ This is illuminated in table 3, which highlights descriptive statistics on the new index for the years 1492-2017. The table sums up sub-periods, type of price index for each period, sources for data compilation and construction, number of commodities, locations and major data sources.

Compared to the old index the new one contains a significantly higher number of representative commodities, and better geographical coverage through more locations. All in all, it represents a far richer and more representative price index than the former.

Table 3. *Descriptive statistics Norges Bank's new historical CLI-CPI 1492-2017.*

Period	Type	Constructed by	Commodities	Locations	Main sources
1492-1665	CLI-WPI	Grytten	6	2-6	PR, WA
1665-1736	CLI-WPI	Grytten	13-28	2-12	PC, ParR, WA
1736-1816	CLI-WPI	Grytten	60	2-18	PO, PC, MA, WA
1816-1830	CLI-WPI	Grytten	44	16	PC, WA, MA, PO
1830-1871	CLI	Grytten	71	40	WA, PR
1871-1910	CLI	Grytten	111	40	WA, PR
1910-1920	CLI	Grytten	125	16	SN, LR
1920-1959	CLI	Statistics Norway	120-340-700	16-100	SN
1959-1979	CPI	Statistics Norway	app 1000	National	SN
1979-2017	CPI	Statistics Norway	app 650	National	SN

Sources, see appendix 7.

PR = Public records

ParR= Parish records

MA = Merchant archives

PC = Price currents

LR = Local records

SN = Statistics Norway

WA = Wedervang Archive

PO = Proviant Office

For the years between 1665 and 1920 it reports between 33 and 205 percent more commodities than the old series, substantially more expenditure groups and it represents a significantly better national coverage.¹¹⁹ In addition, it is more focused on retail prices than the previously constructed CLIs and CPIs.

¹¹⁸ Grytten 2004a, pp. 47-98.

¹¹⁹ Grytten 2004a, pp. 42-98, Grytten 2004b, pp 61-79.

Thus, it represents an obvious improvement compared to previous series concerning both validity and reliability.

Currency units

Working on more than 500 years of price history also means working on more than five centuries of currency history. Like most other countries Norway had many different currencies during this half millennium.

When Aschehoug established his price series back to the turn of the fifteenth century he transformed all prices into Norwegian kroner. He did that by splicing different series in different currencies in the years of change of key currencies. More precisely he calculated prices in a form of running indices and thereafter converted them into kroner.¹²⁰

Table 4. Key currencies for notation of prices.

Period	Key currency	Unit	Speciedaler	Mark	Ort	Skilling	Kroner	Øre
1492-1514	Gullgylden	1				24		
1514-1537	Gylden	1				24		
1537-1582	Riksdaler Species	1		3		48		
1582-1602	Riksdaler Species	1		4		64		
1602-1609	Riksdaler Species	1		4		66		
1609-1610	Riksdaler Species	1		4		68		
1610-1616	Riksdaler Species	1		4		74		
1616-1618	Riksdaler Species	1		4		80		
1618-1624	Riksdaler Species	1				84		
1624-1625	Riksdaler Species	1				100		
1625-1671	Riksdaler Species	1		6		96		
1671-1795	Riksdaler Species	1				96		
1695-1795	Riksdaler Courant	1				96		
1795-1813	Riksdaler Species	1				96		
1795-1813	Riksdaler Courant	1				96		
1813-1816	Riksbankdaler	1				96		
1816-1875	Speciedaler	1			5	120		
1875-1877	Speciedaler	1			5	120	4	400
1875-1877	Kroner	1	0.25		1.2	30		100
From 1877	Kroner	1						100

Source, www.norges-bank.no: Priskalkulator Norges Bank: Pengeeiningar i Noreg fra 1514, Skaare 1995, pp. 34-66.

¹²⁰ Aschehoug 1888, pp. 81-116.

The history of currencies and their values is a very complicated one. But in short we basically compile our price data from the currencies mentioned in table 4. These are found by diving into Kolbjørn Skår's numismatic history of Norway and the central banks overview of historical currencies commonly used in Norway made by Øyvind Eitrheim.¹²¹

This means that we chiefly use gylden for the years 1492-1537, and thereafter the riksdaler species until 1695. This Danish riksdaler more or less constantly had an impressively high silver content of 25.18 grams. It was minted until the late eighteenth century. However, from 1765 notes issued by the government in Copenhagen were quite common. A problem with the riksdaler was that its divisionaries lost value. Hence, the number of skillings in one daler increased almost constantly during the sixteenth and early seventeenth century.

In consequence, a new currency measure was introduced in 1695, i.e. the riksdaler courant, minted and later printed by the central authorities in the Kingdom of Denmark-Norway. This daler was supposed to reflect the real value of divisionary money. Meaning that one riksdaler courant should always equal the value of 96 skillings, against the former par value of 120 skillings per daler.¹²²

This made the riksdaler courant the central Danish-Norwegian currency during the long period 1695-1813. However, we find that some price notations in the archives are made in riksdaler species. This might be a significant error of mistake when working with our sources. The riksdaler courant typically had a value of 81.6 percent of the riksdaler species. The value of a riksdaler courant was set to four fifths of a riksdaler species, i.e. 80 percent in 1795.¹²³ This was basically decided order to easen currency calculations for the public.

During the high inflation epoch during the first one and a half decade of the nineteenth century, the riksdaler courant lost 98 percent of its value. A new currency was introduced in order to try to stop the high inflation. Consequently, the acting government introduced the riksbankdaler in 1813. Its par value was set to half the value of the riksdaler species. However, it lost its value under the

¹²¹ Skaare, Kolbjørn 1995, *Norges mynthistorie*, Universitetsforlaget, Oslo. pp. 34-66,

<https://www.norges-bank.no/Statistikk/Priskalkulator/Pengeeiningar-i-Noreg-fra-1514-/>

¹²² Gullbekk, Svein Harald 1998, *Norsk numismatisk bibliografi*, Universitets Myntkabinett, Oslo,

¹²³ Keilhau, Wilhelm 1952, *Den norske pengehistorie*, Aschehoug, Oslo, pp. 68-83.

hyperinflation and was abandoned in 1816, when parliament made the newly established central bank to introduce the first independent Norwegian currency in centuries, i.e the speciedaler.¹²⁴

The speciedaler formally had the same silver content as the previous Danish-Norwegian riksdaler species, i.e. 25.28 grams silver per daler. However, also the new speciedaler lost value, until the parliament dictated the central bank to conduct deflationary monetary policy in order to reach par value. It gained its par silver value in 1842. In consequence, silver redemption was restored.¹²⁵

In 1873 the Norwegian parliament decided to adopt a gold standard. In consequence, the speciedaler obtained a fixed value in pure gold from January 1st 1874. In 1875 parliament decided to join the Scandinavian Currency Union from October the same year, with the kroner as key currency. Nevertheless, most price notations in public records and archives were still recorded in speciedaler until January 1877, when the krone took over.¹²⁶ The latter had a fixed gold value of 0.04323 grams of pure gold. Meaning it was one of the strongest currencies in Europe at the time. The central bank finally gave up maintaining the kroen's par value to gold in late September 1931.

Currency conversion

When constructing a price index touching seven centuries, it becomes necessary to splice price series with different currency notations. This is not at all a straightforward task. We use exchange rates at the time of conversion from one to another key currency. This is the same method as Klovland used for his construction of his price indices from 1767 onwards.¹²⁷

Again, the conversion rates are set on the basis of Øyvind Eitrheim's (Norges Bank) work on currencies, exchange rates and inflation.¹²⁸ The conversion table, or matrix, can be explained by a couple of examples:

¹²⁴ Eitrheim 2016, pp. 64-72.

¹²⁵ Eitrheim 2016, pp. 83-112.

¹²⁶ Wedervang Archive, files W269, W270, W272 and W383.

¹²⁷ Klovland 2018, pp. 17-21.

¹²⁸ Eitrheim 2016, pp. 50-53.

1. If one wants to convert x riksdaler in the period 1537-1795 into riksbankdaler, one should multiply x with a factor of 0.2042.
2. If one wants to convert the same amount into kroner, one should multiply with a factor of 0.0817.

Table 5. Conversion table for Norwegian currencies.

From\To	Riksdaler 1537-1795	Riksdaler Courant 1695-1795	Riksdaler 1795-1813	Riksdaler Courant 1795-1813	Riksbankdaler 1813-1816	Speciedaler 1816-1874	Kroner f 1874
Riksdaler 1537-1795	1	1.225	-	-	0.2042	0.0204	0.0817
Riksdaler Courant 1695-1795	0.816	1	-	1	0.1667	0.0167	0.0667
Riksdaler 1795-1813	-	-	1	1.25	0.2083	0.0208	0.0833
Riksdaler Courant 1795-1813	-	1	0.8	1	0.1667	0.0167	0.0667
Riksbankdaler 1813-1816	4.896	6	4.8	6	1	0.1	0.4
Speciedaler 1816-1875(77)	48.96	60	48	60	10	1	4
Kroner f 1875(77)	12.24	15	12	15	2.5	0.25	1

Sources, www.norges-Bank.no: Priskalkulator Norges Bank: Pengeeiningar i Noreg fra 1514, Skaare 1995, pp. 34-66.

By converting price notations in different currencies according to the matrix in table 5, we obtain price series as quoted in one currency.¹²⁹ In practise we have done this splicing for each currency in the actual years of conversion, and transfigured the series into chainable index numbers at each of these conversion years.

We also have to take into account, as mentioned previously, that some of the price notations are converted into exchange rates at the time of observation. These have been converted to their value at conversion time.¹³⁰ By doing this, we reach at persistent price series covering more than five and touching seven centuries.

¹²⁹ Eitrheim 2016, pp. 50-53, 64-72 and 80-111.

¹³⁰ Grytten 2004a, pp. 63-66.

Weights

In order to construct indices on three levels, i.e. for commodities, expenditure groups and a general index, we have to go through three steps. Firstly, we calculate commodity price indices for sub-periods by choosing a reference year in the series where the average price for the commodity is set equal to 100. The reference year would normally be one of the most central and representative base years of the sub-period.

Secondly, in order to construct time series comprising more than one commodity, we need to find an average of prices comprising an expenditure group. The Laspeyres index represents a weighted time series. Thus, we give weights to the different commodities. Hence, we are able to construct sub-indices for different expenditure groups within sub-periods.

Thirdly, we add up to a general index by summing up the expenditure group indices. Thus, we also need to give weight to these semi-aggregated time series. When those are given, we are in a position to construct general indices for the different sub-periods of time.

Then, in order to construct series covering the entire five century-period we splice the sub-indices and the general index together into persistent inter-temporary series covering the entire period. Consequently, the weighting process is very important and decisive for the outcome of our calculations and the final indices.

Here, we use a downward approach. At the first place we find weights on the intermediate level, i.e. for expenditure groups. Thereafter, we find weights on the micro level, i.e. commodities within a group. The weights should chiefly reflect the consumption patterns of its time. Thus, we use consumer surveys and different forms of research into consumption patterns at different times in Norwegian history. There is considerable research into consumption patterns during the nineteenth century. This enables us to choose valid weights of both commodities and expenditure groups.¹³¹ Thereafter, we apply a substantial

¹³¹ Coldevin 1938, pp. 206-220, Bjerke. Juul 1966, *Trends in Norwegian Economy 1865-1960*, Statistics Norway, Oslo, p. 76, Minde 1983, pp. 63-81, Minde 1997, pp. 61-82, Grytten 1998, pp. 42-58, Brautaset 2002, pp. 97-114, Grytten 2004a, 63-66.

number of consumption surveys from 1912/1913 onwards, which give us more price information on relevant weights.¹³²

By using these surveys, existing research and drawing on weights applied in former Norwegian price index calculations, we are in a position to arrive at valid, reliable and sensible weights. This accounts also for the pre-nineteenth century index series.

One has to keep in mind that our data samples are limited and that we have compiled prices on representative commodities. In some cases an item of minor importance can represent a large consumption group of commodities. Thus, commodities are given weights, which represent larger, and in some cases even far larger, shares of expenditure or actual consumption than they accounted for in their historical context.

Table 6. Weights of expenditure groups within sub-indices 1492-2017.

	1492-1665	1665-1736	1736-1816	1816-1830	1830-1871	1871-1910	1910-1920	1920-1959	1959-1979	1979-2017
Grain	100	25	12	13	8	4	3			
Flour & bread		20	14	14	13	9	9			
Vegetab, fruits & berries		5	5	7	7	5	4			
Dairy products			7	7	12	12	17			
Meat			13	11	9	8	9			
Fish		20	14	11	9	8	5			
Colonial goods		5	5	5	6	5	6			
Food	100	75	70	68	64	51	48	Alt	Alt	Alt
Beverages & tobacco		5	6	7	6	3	2	Alt	Alt	Alt
Clothing & footwear		20	16	15	20	17	16	Alt	Alt	Alt
Fuel and lighting			8	10	10	7	6	Alt		
Gas and electricity							0	Alt		
Housing						15	17	Alt		
Housing, lighting, fuel						22	23	Alt	Alt	Alt
Furniture & Equipment									Alt	Alt
Medical care						3	3	Alt	Alt	Alt
Travel & transport						4	3	Alt	Alt	Alt
Post and e-services										Alt
Recreation & education									Alt	
Education										Alt
Culture and leisure										Alt
Hotels and restaurants										Alt
Miscellaneous							0	Alt	Alt	Alt
General	100	100	100	100	100	100	100	100	100	100

Alt = Alternating according to consumption surveys
Itinerary = estimated sums

¹³² NOS 1995, p. 295.

Taking these factors into consideration, we finally adopt the expenditure group weights reported in table 6. We have reached at weights for each commodity within the expenditure groups. These are reported in appendix 1 of this report. It is important to note that these items are representative commodities. Again, this implies that in some cases minor products representing significant groups of products may be given a considerable larger weight than they account for. However, this has to be done in order to cover the group of commodity they represent.

New CLI-CPI

By first aggregating commodity indices with representative weights we arrive at expenditure group price indices. Thereafter, we apply the given weights to the expenditure group indices and arrive at general indices for each sub-period. In order to construct a complete annual CLI-CPI 1492-2017, we have to splice the eleven series covering the eleven sub-periods.

Since the range and character of commodities change substantially, we limit ourselves to splice the expenditure group and general indices for the entire period in question. Additionally, we splice our new commodity price indices for the period 1492-1920 and the index by Statistics Norway thereafter.¹³³ Different weights, and variation in expenditure groups implies lack of cross-period additivity between the expenditure group indices and the general index.

At the end years of each sub-period we have overlapping observations. These allow us to calculate running series at three levels by splicing the series at the overlapping years. We now arrive at representative commodity and expenditure group series and a general index.

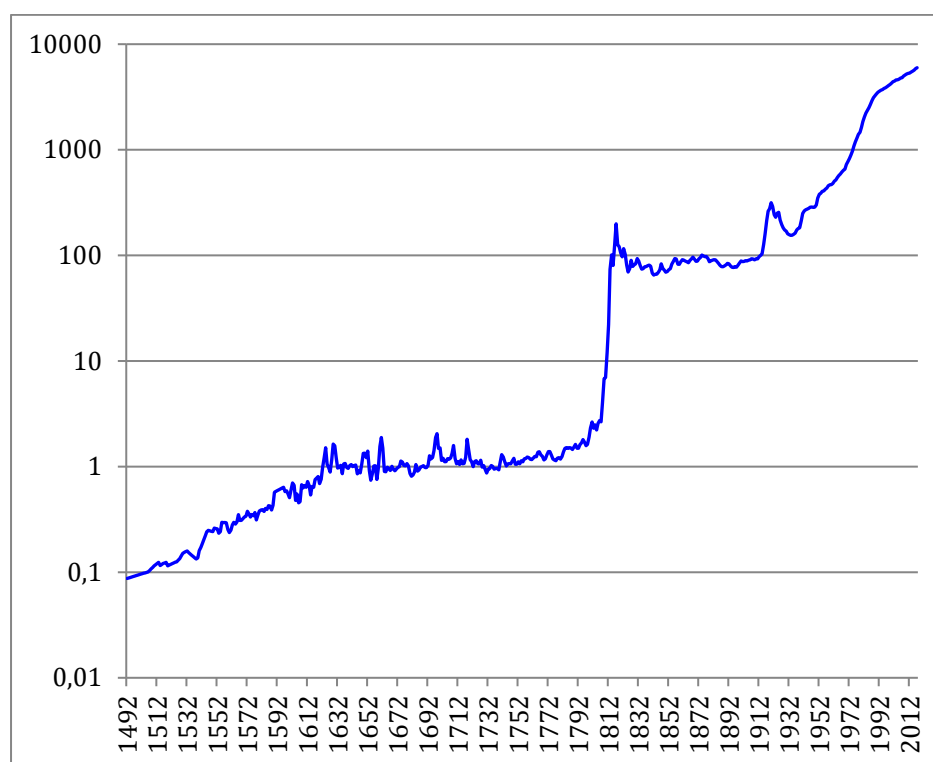
Due to the large consumption survey of 1912/1913 we have an impressive number of price observations and a fairly detailed picture of the consumption pattern at that point. Thus, we choose 1913 as our reference year. Sub-indices, which are not covered annually, are linked to this year by relating recorded prices to their reference year. Again, this can be illustrated by an example:

¹³³ <https://www.ssb.no/kpi>

We do not have any sub-index of postal and electronic services before 1979. However, we are able to find the 1979 index value with the help of prices recorded for postal services in the 1912/1913 survey and similar prices in 1979.¹³⁴ Thus, we conclude with a CLI-CPI for the entire 525-year period 1492-2017. Chart 1 reports this new general series.

According to the new series the annual compound rate of inflation for Norway 1492-2017 was close to 2.14 percent. By using a log-linear regression we arrive at an annual inflation rate of 1.98 percent. In other words, one may conclude that an inflation rate of around two percent has been a long-term normality.

Chart 1. New CLI-CPI for Norway 1492-2017. Semi-logarithmic scale. (1913=100).



Sources, appendix 7.

Chart 1 reveals a period of significant inflation in the sixteenth century, and thereafter substantial short-term variation, but long-term price stability in the

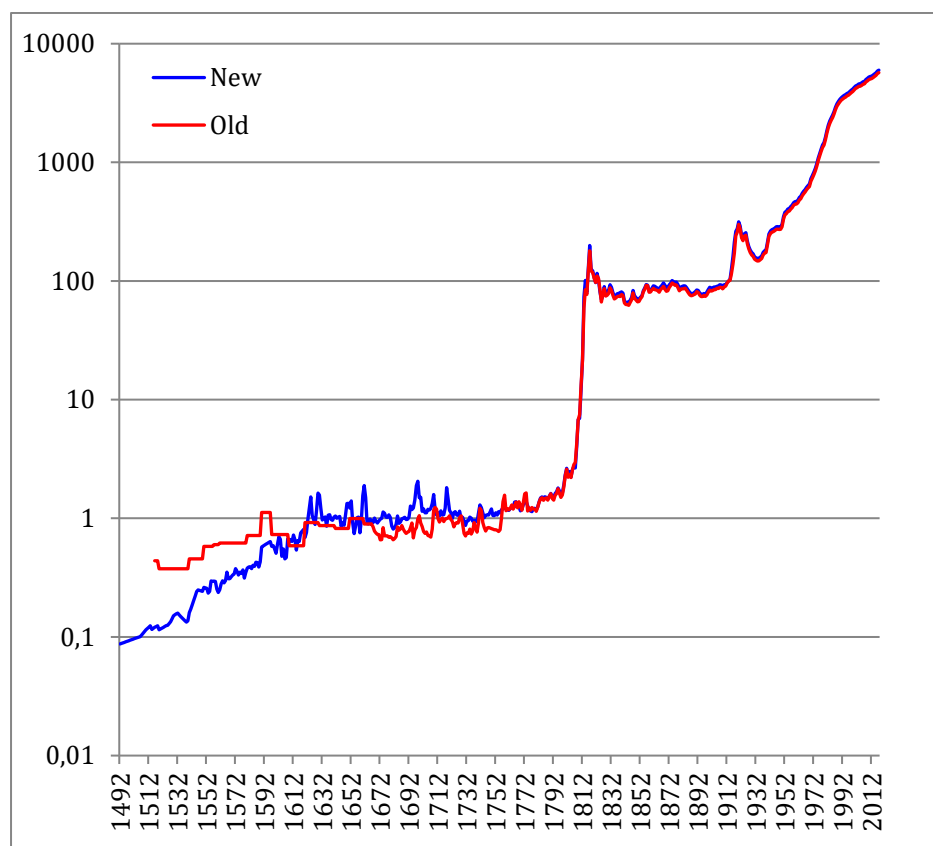
¹³⁴ Statistical Office of Kristiania 1915, pp. 56-61, www.ntnu.no/klv/portotakster.html: Portotakster i Norge.

seventeenth and eighteenth century. This was followed by a period of significant increase in the price level and even hyperinflation during the Danish-Norwegian involvement from 1807 in the Napoleonic Wars and their aftermaths. 1808-1817. In 1813 the uncontrolled annual inflation rate reached its peak at 234.4 percent, according to the new series. From 1797 to 1817 total inflation amounted to astonishing 12,517 percent.

Comparison with previous CLI-CPI

In order to check the validity and reliability of the new series, we compare them with alternative price indices. In the first place, the new CLI-CPI should be compared the previous CLI-CPI published by the central bank in 2004.¹³⁵ This is done in chart 2.

Chart 2. New and old historical CLI-CPI for Norway. Semi-logarithmic scale. (1913=100).



Sources, New: appendix 7, Old: Grytten 2004a, pp. 92-93.

¹³⁵ Grytten 2004a, pp. 79-93.

The new series gives estimates of annual prices for the entire period 1492-2017, when the old reports interval prices from 1516 until 1666, and thereafter-annual prices 1666-2003.

The basic differences between the two series are found for the sixteenth century. For this early period the new series report significantly higher inflation than the old one. This can basically be explained by a richer set of data in the new series. From the 1600s we find that the new series give larger fluctuations in short-term price movements until the late 1700s. Thereafter, the indices report similar price developments until present days. However, there are some deviations, most of them of minor magnitude.

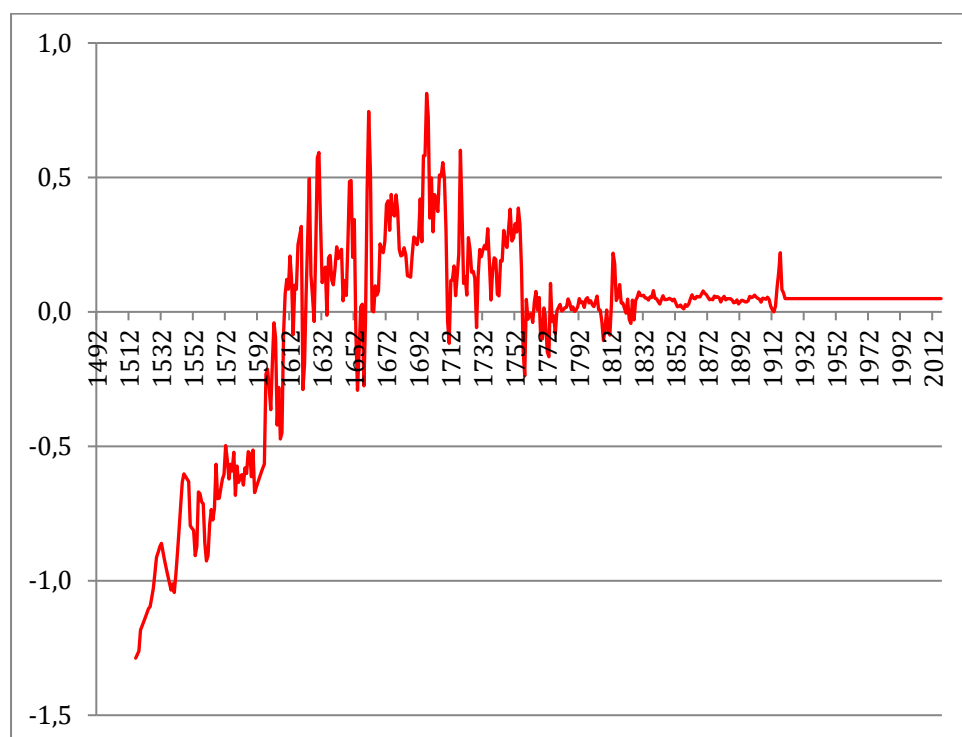
Chart 3 reports deviations between the two price indices in year t calculated by a Laspeyres approach (dI_L^t) expressed as logs of the new index ($\log(I_L^{t_{new}})$) minus logs of the old index ($\log(I_L^{t_{old}})$) with 1913 as reference year:

$$(6) \quad dI_L^t = \log(I_L^{t_{new}}) - \log(I_L^{t_{old}})$$

The new index clearly has lower values than the previous one until the turn of the sixteenth century, indicating lower prices compared to the reference year than according to the previous CLI-CPI. Thereafter, it is basically reports higher index values until the early 1750s. According to the new index inflation was higher until the late 1600s than believed hitherto.

After the mid1700s the deviations between the two series basically are of minor sizes, with the exception of the high inflation epochs during the Napoleonic Wars and the First World War. During these two historical events the new index shows significantly higher inflation than the previous. These periods have always been a challenge due to lack of valid and reliable data.

Chart 3. Annual differences between new and old CLI-CPI measured as log-differences (1913=100).



Sources, appendix 7.

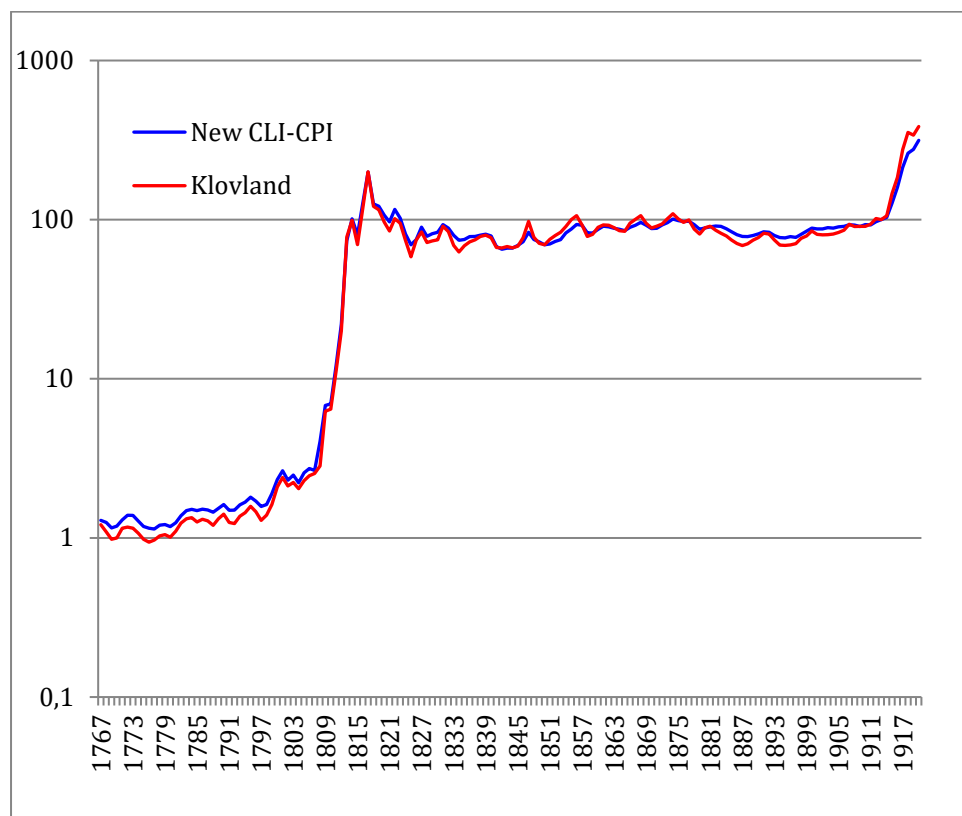
Since the new series is constructed on the basis of higher numbers of commodities and observations, it should reflect a more valid and reliable picture of the price movements during these years than the previous series does.

Comparison with alternative price indices

The new price index should also be compared with other relevant Norwegian historical price indices. First, we compare with Klovland's revised and prolonged wholesale price index (WPI) 1767-1920.¹³⁶ When using the same splicing technique for the turbulent high inflation period 1813-1817, we find that the series show similar, but not identical short-term and long-term movements. It is hardly a surprise that we find somewhat less volatile cost of living prices than wholesale prices. This mirrors that the sale and prices of retail goods is normally more stable than wholesale, at least in the short run.

¹³⁶ Klovland 2018, pp. 185-211.

Chart 4. New CLI-CPI and Klovland's WPI 1767-1920. Semi-logarithmic scale (1913=100).



Sources, New CLI-CPI: appendix 7. Klovland: see Klovland 2018, pp. 185-211.

We also find that the wholesale and cost of living inflation rates during the First World War and its aftermaths 1914-1920 converge when preferring the new to the previous CLI-CPI. This makes it easier to reconcile the price gaps between wholesale and consumer commodities for this period, as the new CLI-CPI shows less divergence with the WPI.

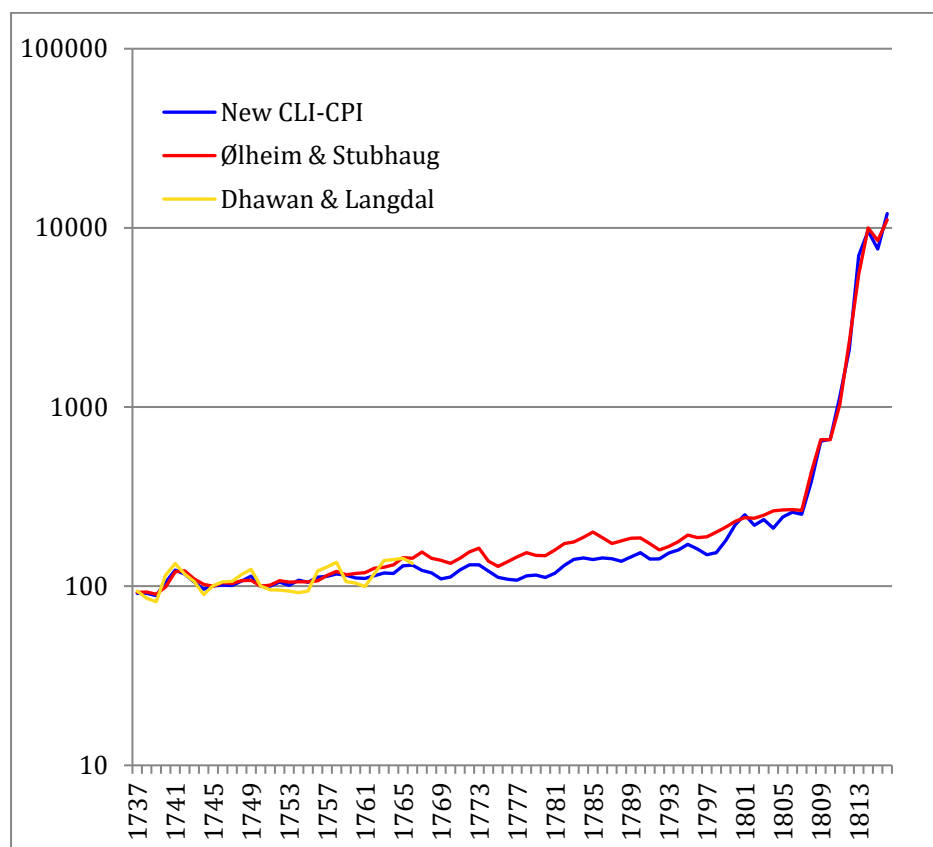
The period from the early 1700s until the 1820s can be characterized as turbulent economy- and inflationary-wise. This was basically due to three major periods of war. The Great Nordic War (1700-1721). The Seven Years War (1756-1763) and the Napoleonic Wars (1803-1815). However, between the wars we find distinct periods of stability and growth in the Norwegian as well as in the international economy.¹³⁷ This economic stability was also mirrored in price stability.

¹³⁷ Hutchison, 2012, Hodne & Grytten 2000, pp.11-20.

Secondly, we can compare the new CLI-CPI with the alternative CLIs constructed by Ølmheim and Stubhaug for 1737-1816 and Dhawan and Langdal for 1737-1767.¹³⁸ Their alternative series make it possible to compare similar types of historical price indices, basically CLIs. Thus, we compare them visually in chart 5.

Again we find satisfactory correspondence in short- and long-term price developments for these three series. The Dhawan and Langdal index represent first-hand market prices, i.e. production and import prices, to a greater extent than the two others. Hence, it does not come as a surprise that their series are somewhat more volatile than our series.

Chart 5. New CLI-CPI and CLIs by Ølmheim & Stubhaug and Dhawan & Langdal 1736-1816. Semi-logarithmic scale. (1750=100).



Sources, New CLI-CPI: appendix 7, Ølmheim & Stubhaug: see Ølmheim 2018, pp. 82-85, Dhawan & Langdal: see Dhawan 2018, pp. 89-91.

¹³⁸ Ølmheim 2018, pp. 82-85, Dhawan 2018, pp. 89-91

From the 1760s until 1780 the Ølmheim and Stubhaug index comes out with somewhat lower inflation rates than the new CLI-CPI. Thereafter, we find a catching-up process until 1800. This can basically be explained by a deliberate policy at the supply office in Røros, which the Ølmheim & Stubhaug index rests on. The supply office managers set prices with low profit as means of social policy and in order to keep wages down in periods of high inflation in order to uphold the standard of living for their employees.¹³⁹

Hence, we find price divergence between Ølmheim's and Stubhaug's index on the one hand and the new index presented here on the other hand. The supply office of the copper mine in Røros gave up this kind of low profit price policy in the period 1780-1800. In result, we find price convergence for the latter period.¹⁴⁰

Comparison with Danish and Swedish CLI-CPIs

Finally, we compare the new price index with similar series made for neighbouring Scandinavian countries. Rodney Edvinsson and Johan Söderberg constructed the Swedish historical cost of living index we use here, when Kim Abildgren constructed the Danish index.¹⁴¹ Since Denmark and Norway basically had the same currency and currency system until 1813, it would be reasonable to assume fairly uniform price development between the two. Admittedly, possible exceptions could occur in years of asymmetric shocks into the economies or due to substantial institutional differences. These could be differences in size and organisational structure of markets and how they were conducted.

As we can see there seems to be evident and striking correlation between the two series. Additionally, the new Norwegian series correspond better with the Danish than the old one. This can partly be explained by our inclusion of some Danish data up until 1665. However, the pattern seems to continue also after that period.

¹³⁹ Sakrisvold 2017, pp. 43-66.

¹⁴⁰ Ølberg & Stubhaug 2018.

¹⁴¹ Edvinsson, Rodney & Johan Söderberg 2011, "A Consumer Price Index for Sweden 1290-2008", *Review of Income and Wealth*, 57(2), 2011, pp. 270-292, Abildgren 2010, pp. 2-24.

One striking difference is that the Danish inflation rate was higher than the Norwegian until the early 1600s. This can partly be explained by a relative fall in prices of grain to Norway and reduced transaction costs on imported commodities to Norway. Hence, the extra cost of shipped goods to Norway was falling. Thus, imported commodities to Norway recorded lower inflation rates than domestic produced grain in Denmark, which was under market protection from imported grains.

Additionally, the increase of foreign trade and fiercer competition over Norwegian foreign trade gave way to a more efficient Norwegian economy with lower inflation than Denmark, which had taken advantage of these factors earlier.¹⁴² Perhaps even more important for the period 1735-1788 was that Danish farmers were given monopoly on exports of grain to Southern Norway. However, they were not able to produce enough grain, but it gave them a privilege that made Danish and Norwegian prices on grain correspond better than before, despite it finally made Norwegian prices on grain increase significantly.¹⁴³

We also find that the hyperinflation period in the early 1800s was stronger and longer in Norway than in Denmark. This is in line with the findings of Klovland and Abildgren.¹⁴⁴ It can be explained by the dismissal of the monetary union between the two nations, which implied that currency ties were broken. Finally, we will remark that the new Norwegian price index is more in line with the Danish during the eighteenth century than the old one. This is reassuring since the two countries had common currencies and common monetary policy at that time.

Due to heavy pressure on the state finances after decades of war, Sweden experienced higher inflation than both Denmark and Norway until the Napoleonic Wars.¹⁴⁵ When long-term price stability prevailed in Denmark and Norway for most of the seventeenth and eighteenth centuries, that was certainly not the case for Sweden.

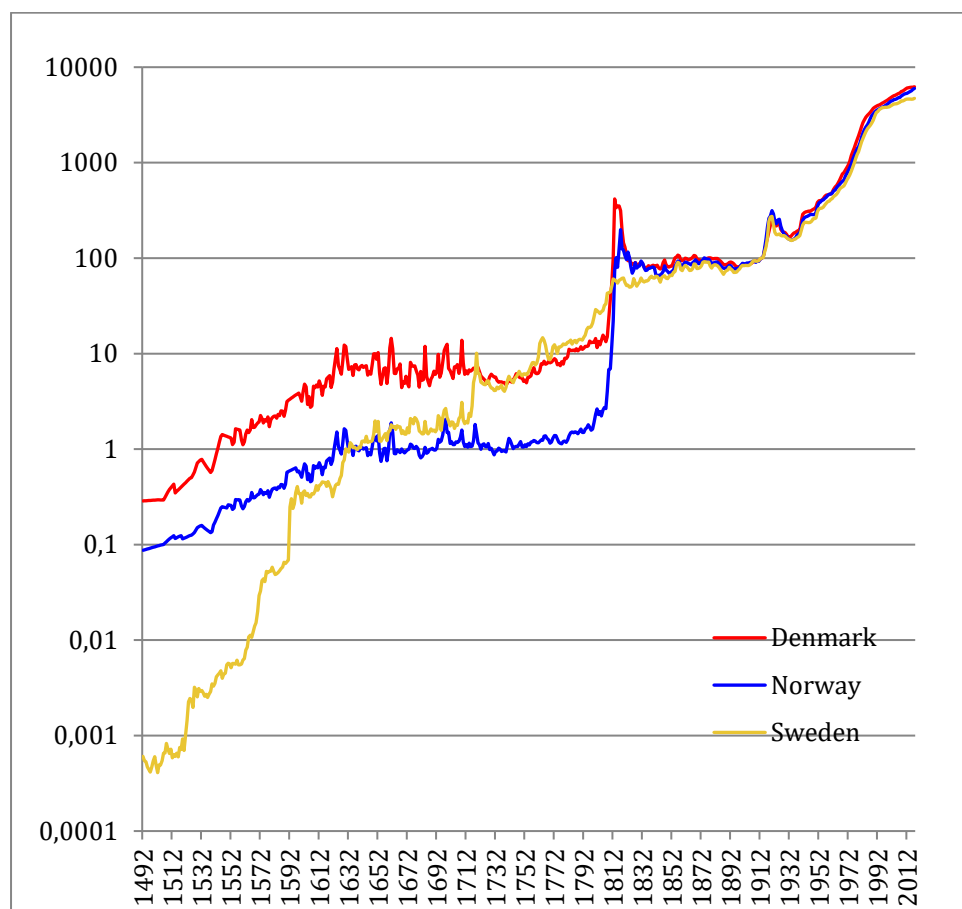
¹⁴² Bjørsvik, Elisabeth & Per Solberg 1996, *Hanseatene og Norden*, Bryggens Museum, Bergen.

¹⁴³ Herstad, John 2000, *I helstatens grep: kornmonopolet 1735-1788*, Tano Aschehoug, Oslo.

¹⁴⁴ Klovland 2018, pp. 185-211, Abildgren 2010, pp. 2-24.

¹⁴⁵ Magnusson, Lars 2000, *An Economic History of Sweden*, Routledge, London & New York, pp. 57-76.

Chart 6. New Norwegian, Danish and Swedish CLI-CPI 1492-2017. Semi-logarithmic scale. (1913=100).



Sources, Norway: appendix 7, Denmark: see Abildgren 2010, pp. 2-24, Sweden: see Edvinsson 2011, pp. 270-292.

Inflation rates

An important purpose for both CLIs and CPIs is to determine the purchasing power of income and money. This implies that they should reflect the inflation rate of consumption items. Hence, it is of importance to calculate and look at inflation rates.

Inflation rates (π) during a certain period of time (t) can be calculated in different ways. Here we adopt two methods for computing annual inflation rates. The first is a standard measure, i.e. annual percentage changes in prices. Over a long period of time this will be equivalent to the annual compound rate of inflation. This simple method of calculation of annual inflation rates is carried out according to equation (7):

$$(7) \quad \pi^t = I_L^t / I_L^{t-1} - 1$$

The second method of computing inflation rates presented here is based on the principle of continuous growth (or decline). Thus, we assume that inflation or deflation rates should be measured instantly and continuously, and not necessarily annually. Continuous inflation rates imply exponential absolute growth of inflation within a period. Consequently, it makes annual inflation rates lower than when calculated according to equation (7) and negative inflation rates (deflation) even more negative.

According to this method, which is perhaps most relevant in high inflation or deflation periods, annual inflation rates are found by equation (8):

$$(8) \quad \pi^t = \log(I_L^t) - \log(I_L^{t-1})$$

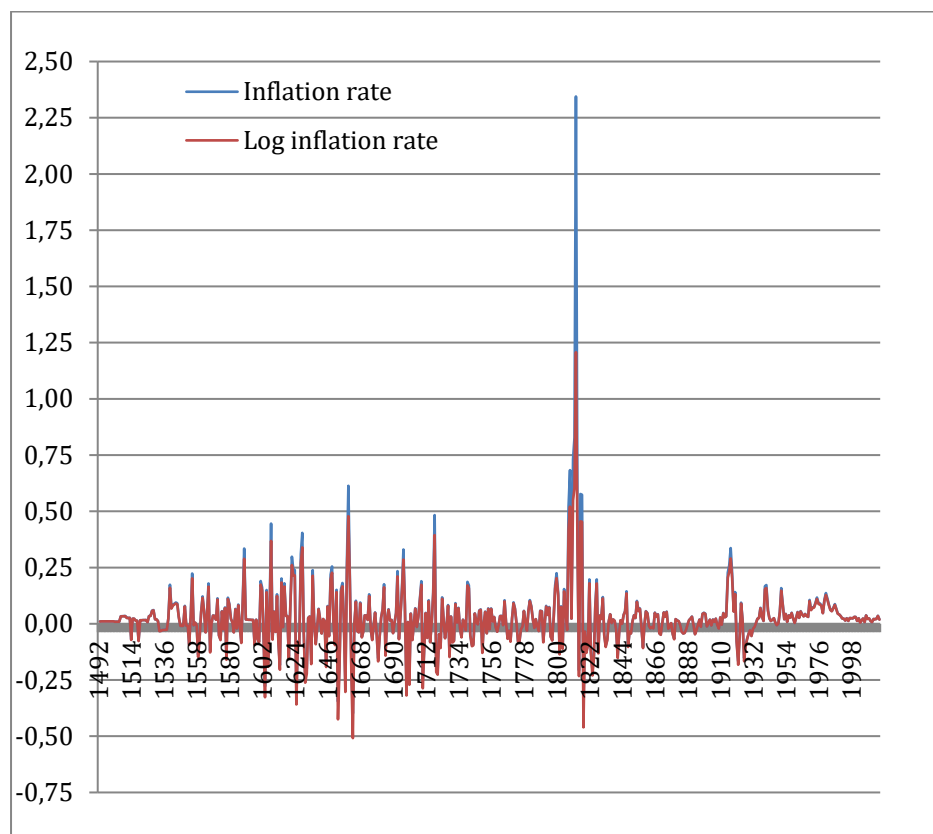
Chart 7 reveals annual inflation rates 1492-2017. In the first place, the graph visualizes significant fluctuations in short-term inflation. In the second place, it maps the high inflation epochs during wars. These are in particular the Napoleonic Wars and their aftermaths 1803-1817 and during the First World War and its aftermath 1914-1920.¹⁴⁶ During these two incidents inflation peaked, as we have already shown, with 234.4 and 33.0 percent in 1813 and 1914 respectively.

Thirdly, we find that annual consumer price fluctuations with few exceptions were larger from the 1500s and into the early nineteenth century, than in later periods. Hence, short-term price stability has increased along with the growth of the public sector and policy tools for maintaining general price stability. Fourthly, we often find years of deflation after high inflation years. This indicates that prices adjusted down toward a more normal level after periods of very high inflation. These factors in sum throw light on the new index as both valid and reliable, since it reflects economic realities both on the supply and the demand side at its time.

¹⁴⁶ Eitrheim 2016, pp. 64-112.

If one applies log-calculations of consumer inflation, one naturally finds significantly lower inflation rates when prices show substantial increase, and more deflation in times of negative price developments.

Chart 7. Annual consumer inflation rates 1492-2017.



Sources, appendix 7.

Conclusions

The present research presents a new combined annual cost of living index (CLI) and consumer price index (CPI) for Norway for the period 1492 until 2017. We construct the combined index according a standard Lapeyres approach. It holds several sub-indices according to time spells. expenditure groups and commodities.

We have been able to trace price data from six to 125 items from 1492 until 1920. Thereafter, we apply a CLIs and a CPI from Statistics Norway for the years 1920-2017. Our data mostly reflect retail prices of consumer commodities. However, we use some appraisal, institution, wholesale, exports, imports and product prices in order to fill in gaps in our sources.

The new price index is significantly better than those calculated previously regarding both validity and reliability. Its coverage is substantially better and the data more precise and abundant. This is very much due to a better utilisation of the Wedervang Archive at the Norwegian School of Economics and a new national database on trade, tariffs and prices, basically covering the eighteenth and parts of the nineteenth century.

The new price index is in better correspondence with a similar Danish CLI-CPI covering basically the same period of time. It is also easier to reconcile the new index with the historical wholesale index constructed by Jan Tore Klovland. According to our new series Norwegian inflation was higher during the sixteenthth century than believed hitherto, and thus, more in line with international trends. The same accounts for the high inflation epoch during the first two decades of the 1800s and finally during the First World War and its aftermath 1914-1920.

On the basis of the new index we calculate the annual compound inflation rate for Norwegian consumer commodities to 2.14 percent during the 525-year period 1492-2017. A log-linear regression approach reports 1.98 percent as annual inflation rate. This corresponds well to the new 2.0 percent inflation target set for the Norwegian central bank.

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Appendixes

Appendix 1.1. Commodity and expenditure group weights 1665-1736.

Commodity	Weights	
Barley	0-34	
Oat	0-34	
Maslin	0-34	
Rye	0-33	
Imported barley	0-33	
Imported oat	0-33	
Grain	100	100
Food		100
General		100

Appendix 1.2. Commodity and expenditure group weights 1665-1736.

Commodity	Weights	
Barley	30-60	
Oat	20-40	
Rye	15-30	
Maslin	15-30	
Imported barley	20-40	
Grain	100	25
Barley flour	45-70	
Oat flour	15-30	
Oat meal	15-30	
Rye flour	25-70	
Flour & bread	100	20
Peas	65-100	
Yellow peas	35-100	
Vegetables, fruits & berries	100	5
Stockfish round	30-60	
Stockfish split	30-60	
Clip fish	20-40	
Others	20-40	
Fish	100	20
Salt	100	
Colonial goods	100	5
Food		75
Beer	70-100	
Tobacco	30-100	
Beverages & tobacco	100	5
Linnen	35-100	
Hemp	25-100	
Wool	40-100	
Cloathing & footwear	100	20
General		100

Appendix 1.3. Commodity and expenditure group weights 1736-1816.

Product	Weights	Product	Weights
Danish barley	3.5	French salt	33
English barley	3.5	Norwegian salt	34
Holstein barley	3.5	Spanish salt	33
Irish & Scottish barley	3.5	Salt	100
Norwegian barley	21	Colonial goods	100 5
Barley	35	Food	70
Danish oat	7	Braunsviger hops	12.5
Holstein oat	7	Dutch hops	12.5
Norwegian oat	21	Beer hops	25
Oat	35	Danish malt	16.25
Rostock & Holstein rye	6	Irish & Scottish malt	8.75
Köningsberg & Riga rye	5	Beer malt	25
Danzig rye	5	Beverages	50
Danish rye	4	Tobacco mats	7.5
Rye	20	Dutch tobacco mats	7.5
Polish buckwheat	5	Trondhjem tobacco mats	10
German buckwheat	5	Tobacco mats	25
Buckwheat	10	Snuff tobacco	7.5
Grain	100 12	Dutch snuff tobacco	7.5
Barley flour	40	Trondhjemske snuff tobacco	10
Oat flour	40	Processed tobacco	25
Rye flour	20	Tobacco	50
Flour & bread	100 14	Beverages & tobacco	100 6
White peas	100	Riga hemp	13.75
Vegetables, fruits & berries	100 5	Unprocessed hemp	11.25
Butter	100	Hemp	25
Dairy products	100 7	Linnen, supreme	20
Pork	20	Linnen, inferior	10
Mutton	40	Wood linnen	20
Beaf	40	Linnen	50
Meat	100 13	Sacking of linnen	15
Cod, round	20	Sacking of hemp	10
Cod, split	20	Sacking	25
Stockfish	40	Clothing & footwear	100 16
Clip fish	11	Tar	15
Salt fish	10	Tallow	15
Ling	7	Wood	65
Coalfish	8	Fish oil	5
Pollock	8	Fuel & lighting	100 8
Flounder	5		
Herring	11		
Fish	100 14	General	100

Appendix 1.4. Commodity and expenditure group weights 1816-1830.

Commodity	Weights	Commodity	Weights
Barley	35	Spirit	30
Oat	35	Malt	30
Rye	10	Beverages	60
Wheat	5	Div tobacco	40
Maslin	10	Tobacco	40
Rice	5	Beverages & tobacco	100
Grain	100		7
Barley flour	30	Hemp	15
Oat flour	20	Linnen	20
Oat meal	20	Sacking	15
Rye flour	20	Buckskin	15
Wheat flour	10	Goatskin	15
Flour & bread	100	Cloathing & footwear	100
			15
Peas	50	Tallow	20
White peas	50	Tar	15
Vegetables, fruits & berries	100	Fish oil	15
		Coal	15
Butter	60	Wood	35
Milk	40	Fuel & lighting	100
Dairy products	100		10
Pork	100		
Meat	100		
Cod, round	18		
Cod, split	18		
Stockfish	36		
Clippfish	10		
Salt fish	8		
Ling	6		
Coalfish	6		
Pollock	6		
Herring	14		
Fish oil	7		
Roe	7		
Fish	100		
Rafinade	30		
Sugar	40		
Salt	30		
Colonial goods	100		
Food	68	General	100

Appendix 1.5. Commodity and expenditure group weights 1830-1871.

Commodity	Weights	Commodity	Weights
Rye	15	Raffinade	20
Wheat	10	Sugar	20
Barley	30	Lump sugar	6
Oat	20	Syrup	6
Maslin	15	Cofee	15
Rice	10	Coffee, grounded	15
Grain	100	Salt	12
	8	Vinegar & olive oil	6
Rye flour	20	Colonial goods	100
Oat flour	20		6
Barley flour	20	Food	64
Wheat flour	20	Spirits	30
Oatmeal	20	Malt	10
Flour & bread	100	Humulus	5
	13	Beer	25
Potatoes	70	Beverages	70
Peas	15	Tobacco, smoke	20
White peas	15	Snuff tobacco	10
Vegetables, fruits & berries	100	Tobacco	30
	7	Beverages & tobacco	100
Butter	25		6
Cream	12	Cotton	15
Cheese	25	Wool	15
Milk	25	Woolen goods	10
Eggs	13	Linnen	10
Dairy products	100	Hemp	10
	12	Sacking	10
Grouse	5	Buckskin	10
Beef	23	Goatskin	10
Veal	10	Calfskin	10
Mutton	21	Clothing & footwear	100
Lamb	7		20
Pork	20	Pinewood	14
Game & poultry	7	Whitewood	14
Goat	7	Birchwood	18
Meat	100	Wood	7
	9	Tallow	13
Herring	10	Tar	8
Stockfish	10	Fish oil	8
Stockfish, round	8	Veg oil	7
Stockfish, split	8	Coal	11
Stockfish, pollock	7	Fuel & lighting	100
Clipfish	15		10
Cod	22		
Coalfish	10		
Fish oil, ligt	2		
Fish oil, dark	2		
Roe	3		
Others	3		
Fish	100	General	100
	9		

Appendix 1.6. Commodity and expenditure group weights 1871-1910.

Commodity	Weights	Commodity	Weights	
Barley	25	Cod	20	
Oat	25	Coalfish	10	
Rye	13	Stockfish, round	5	
Wheat	13	Stockfish, split	5	
Maslin	13	Stockfish	5	
Rice	11	Clippfish	10	
Grain	100	4	Hallibut	3
Barley flour	12	Salmon	4	
Oat flour	13	Mackerel	6	
Wheat flour	9	Herring	12	
Barley meal	6	Sprat	4	
Rye flour	9	Ancovy	2	
Potato flour	3	Lobster	3	
Oatmeal	5	Roe	3	
Sago meal	3	Fish oil, light	2	
White bread	10	Fish oil, medium	3	
Brown bread	20	Fish oil, black	3	
Rye bread	10	Fish	100	
Flour & bread	100	8	Allspice	2
White peas	5	Vinegar	4	
Peas	9	Honney	3	
Potatos	58	Coffee	23	
Raisins	6	Cocoa bean	4	
Plums	8	Rock candy	3	
Berries	14	Cardamom	2	
Vegetables, fruits & berries	100	5	Curry	2
Egg	9	Pepper	5	
Cream	7	Raffinade	8	
Margarine	15	Salt	8	
Whole milk	16	Syrup	2	
Skimmed milk	7	Chokolade	3	
Butter	20	Sugar	15	
Farm butter	5	Tea	8	
Dairy butter	5	Farin, supreme	3	
Ghoat's cheese	8	Farin	3	
Fermented cheese	4	Icing sugar	2	
Soft cheese	4	Colonial goods	100	
Dairy products	100	12		
Pork	23			
Smokedpork	7			
Mutton	20			
Hazel grouse	3			
Veal	10			
Beef	30			
Black grouse	3			
Grouse	4			
Meat	100	8	Food	51

Appendix 1.6. Commodity and expenditure group weights 1871-1910 continued.

Commodity	Weights	Commodity	Weights
Tobaco. smoke	40	Rent	55
Snuff tobacco	20	Misc housing	45
Tobacco	60	Housing	100 15
Beer	25	Train	60
Misc alcohol	15	Tram	40
Beverages	40	Travel & transport	100 4
Beverages & tobacco	100 3	Cleanser	34
Greased leather	15	Soap	43
Canvas	8	Medisintran	19
Linen	15	Natural ice	4
Shoe leather	12	Medical care & health	100 3
Wool	20		
Homespun	15		
Hides	5		
Dried skin	5		
Salted skin	5		
Clothing & footwear	100 17		
Birch wood	18		
Olive oil	5		
Pine wood	18		
Spruce wood	14		
Misc wood	5		
Coal	12		
Misc oil	7		
Paraffine	5		
Tallow	5		
Candles	5		
Fish og lignende	3		
Matches	3		
Fuel & lighting	100 7	General	100

Appendix 1.7. Commodity and expenditure group weights 1910-1920.

Commodity	Weights	Commodity	Weights
Barley	15	Beef, supreme	15
Oat	15	Beef, secondary	15
Maslin	10	Mutton, supreme	8
Rye	15	Mutton, secondary	7
Wheat	15	Salted mutton	8
Rice	30	Veal, supreme	4
Grain	100	Veal, secondary	4
	3	Veal, newborn	4
Wheat flour	15	Pork	8
Rye flour	9	Bacon	8
Oat flour	9	Bacon, American	8
Oat meal	4	Game	3
Oat meal, large	3	Poultry	5
Oatmeal, American	2	Reindeer	3
Barley flour	10	Meat	100
Barley meal	3		8
Potato flour	2	Cod, round	6
Rice meal	5	Cod, fresh	10
Rye bread	10	Cod, misc	5
Malted bread	18	Cod, salted	5
White bread	10	Clippfish	6
Flour & bread	100	Stockfish, round	3
	8	Stockfish, split	3
Peas	10	Stockfish, pollock	3
Peas, yellow	10	Roe	2
Potatos	60	Herring, fresh	8
Carrots and turnips	10	Herring, salted	8
Prunes	3	Halibut	3
Berries and fruits	7	Mackerell, fresh	10
Vegetables, fruits & berries	100	Mackerell, salted	8
	4	Coalfish. fresh	6
Whole milk	12	Coalfish. round	6
Skimmed milk	6	Headock	3
Sour whole milk	3	Misc fish	3
Sour skimmed milk	3	Fish oil. supreme	2
Misc milk	4	Fish	100
Butter, dairy	8		5
Butter, mountain	4	Coffee	10
Butter	10	Coffee, Java	8
Cream	5	Coffe, Guatemala	8
Sour cream	2	Coffee, Santos	10
Margarin, supreme	6	Rafinade	10
Margarin, secondary	6	Sugar, crushed	5
Goats cheese	5	Sugar, farin	5
Brown cheese	5	Sugar	10
White cheese	6	Syrup	5
Fermented cheese	2	Chocolate	5
Eggs	7	Chokolade, dark	5
Veg oil, superior	2	Cocoa bean	5
Veg oil, secondary	2	Salt	7
Cod liver oil	2	Spices	7
Dairy products and eggs	100	Colonial goods	100
	15		5
		Food	48

Appendix 1.7. Commodity and expenditure group weights 1910-1920 continued.

Commodity	Weights		Commodity	Weights	
Beer	55		Rent	65	
Malt	10		Timber	10	
Tobacco	35		Saw timber	10	
Beverages & tobacco	100	3	Maintenance	15	
Hides	4		Housing	100	17
Calf skin	4		Cod liver oil, supreme	15	
Goat skin	4		Soap	39	
Cotton products	20		Cleanser	39	
Wool	15		Natural ice	7	
Woollen products	20		Medical care & health	100	3
Linen	3		Transport, tram	30	
Linen products	10		Transport, train	50	
Textiles	20		Hotel	20	
Clothing & footwear	100	18	Transport and hotel	100	4
Oil, supreme	5				
Oil, secondary	5				
Coal	7				
Coke	13				
Pine wood	15				
Birchwood	20				
Spruce wood	17				
Misc wood	10				
Fish oil	3				
Tallow	5				
Fuel & lighting	100	7	General		100

Appendix 2.1. Commodity indices 1492-1665 (1600=100).

	Grain	Food	General		Grain	Food	General		Grain	Food	General
1492	17.2	17.2	17.2	1550	51.5	51.5	51.5	1608	132.8	132.8	132.8
1493	17.4	17.4	17.4	1551	51.1	51.1	51.1	1609	123.8	123.8	123.8
1494	17.6	17.6	17.6	1552	50.7	50.7	50.7	1610	130.5	130.5	130.5
1495	17.7	17.7	17.7	1553	46.1	46.1	46.1	1611	125.8	125.8	125.8
1496	17.9	17.9	17.9	1554	47.7	47.7	47.7	1612	142.3	142.3	142.3
1497	18.1	18.1	18.1	1555	58.4	58.4	58.4	1613	130.4	130.4	130.4
1498	18.3	18.3	18.3	1556	58.0	58.0	58.0	1614	106.3	106.3	106.3
1499	18.5	18.5	18.5	1557	58.3	58.3	58.3	1615	127.7	127.7	127.7
1500	18.7	18.7	18.7	1558	57.9	57.9	57.9	1616	125.8	125.8	125.8
1501	18.9	18.9	18.9	1559	49.9	49.9	49.9	1617	148.4	148.4	148.4
1502	19.1	19.1	19.1	1560	46.8	46.8	46.8	1618	153.7	153.7	153.7
1503	19.3	19.3	19.3	1561	49.3	49.3	49.3	1619	158.9	158.9	158.9
1504	19.4	19.4	19.4	1562	55.3	55.3	55.3	1620	136.0	136.0	136.0
1505	19.6	19.6	19.6	1563	58.5	58.5	58.5	1621	149.4	149.4	149.4
1506	19.8	19.8	19.8	1564	56.3	56.3	56.3	1622	194.0	194.0	194.0
1507	20.5	20.5	20.5	1565	58.7	58.7	58.7	1623	240.4	240.4	240.4
1508	21.2	21.2	21.2	1566	69.3	69.3	69.3	1624	298.0	298.0	298.0
1509	21.9	21.9	21.9	1567	61.0	61.0	61.0	1625	208.2	208.2	208.2
1510	22.7	22.7	22.7	1568	61.1	61.1	61.1	1626	192.2	192.2	192.2
1511	23.2	23.2	23.2	1569	63.3	63.3	63.3	1627	175.1	175.1	175.1
1512	23.8	23.8	23.8	1570	65.6	65.6	65.6	1628	229.2	229.2	229.2
1513	24.5	24.5	24.5	1571	66.7	66.7	66.7	1629	321.9	321.9	321.9
1514	22.8	22.8	22.8	1572	74.3	74.3	74.3	1630	309.8	309.8	309.8
1515	23.3	23.3	23.3	1573	70.5	70.5	70.5	1631	238.4	238.4	238.4
1516	23.8	23.8	23.8	1574	65.6	65.6	65.6	1632	191.0	191.0	191.0
1517	24.1	24.1	24.1	1575	69.3	69.3	69.3	1633	196.0	196.0	196.0
1518	24.5	24.5	24.5	1576	67.6	67.6	67.6	1634	202.4	202.4	202.4
1519	22.7	22.7	22.7	1577	72.5	72.5	72.5	1635	169.1	169.1	169.1
1520	23.0	23.0	23.0	1578	61.7	61.7	61.7	1636	209.4	209.4	209.4
1521	23.4	23.4	23.4	1579	68.8	68.8	68.8	1637	211.2	211.2	211.2
1522	23.8	23.8	23.8	1580	75.0	75.0	75.0	1638	192.8	192.8	192.8
1523	24.1	24.1	24.1	1581	76.6	76.6	76.6	1639	189.3	189.3	189.3
1524	24.6	24.6	24.6	1582	77.1	77.1	77.1	1640	201.9	201.9	201.9
1525	24.7	24.7	24.7	1583	74.2	74.2	74.2	1641	206.1	206.1	206.1
1526	25.6	25.6	25.6	1584	79.1	79.1	79.1	1642	197.4	197.4	197.4
1527	26.5	26.5	26.5	1585	77.5	77.5	77.5	1643	201.6	201.6	201.6
1528	28.0	28.0	28.0	1586	84.1	84.1	84.1	1644	204.3	204.3	204.3
1529	29.7	29.7	29.7	1587	83.4	83.4	83.4	1645	168.6	168.6	168.6
1530	30.3	30.3	30.3	1588	76.6	76.6	76.6	1646	181.9	181.9	181.9
1531	30.9	30.9	30.9	1589	84.6	84.6	84.6	1647	172.1	172.1	172.1
1532	31.3	31.3	31.3	1590	112.9	112.9	112.9	1648	209.5	209.5	209.5
1533	30.3	30.3	30.3	1591	115.0	115.0	115.0	1649	262.8	262.8	262.8
1534	29.3	29.3	29.3	1592	117.1	117.1	117.1	1650	263.8	263.8	263.8
1535	28.5	28.5	28.5	1593	119.2	119.2	119.2	1651	240.0	240.0	240.0
1536	27.7	27.7	27.7	1594	121.3	121.3	121.3	1652	276.2	276.2	276.2
1537	27.0	27.0	27.0	1595	123.4	123.4	123.4	1653	180.6	180.6	180.6
1538	26.3	26.3	26.3	1596	125.5	125.5	125.5	1654	146.4	146.4	146.4
1539	26.9	26.9	26.9	1597	114.2	114.2	114.2	1655	169.0	169.0	169.0
1540	31.6	31.6	31.6	1598	116.2	116.2	116.2	1656	199.5	199.5	199.5
1541	33.8	33.8	33.8	1599	108.6	108.6	108.6	1657	201.6	201.6	201.6
1542	36.6	36.6	36.6	1600	100.0	100.0	100.0	1658	148.8	148.8	148.8
1543	39.9	39.9	39.9	1601	119.0	119.0	119.0	1659	189.8	189.8	189.8
1544	43.7	43.7	43.7	1602	138.1	138.1	138.1	1660	306.2	306.2	306.2
1545	47.6	47.6	47.6	1603	130.9	130.9	130.9	1661	371.8	371.8	371.8
1546	49.1	49.1	49.1	1604	94.4	94.4	94.4	1662	295.1	295.1	295.1
1547	48.6	48.6	48.6	1605	108.6	108.6	108.6	1663	177.5	177.5	177.5
1548	48.2	48.2	48.2	1606	89.6	89.6	89.6	1664	176.4	176.4	176.4
1549	47.7	47.7	47.7	1607	91.8	91.8	91.8	1665	194.5	194.5	194.5

Appendix 2.2. Commodity indices 1665-1736 (1688=100).

	Grain	Flour & bread	Vegetables, fruits & berries	Fish	Colonial goods	Food	Beverages & tobacco	Clothing & footwear	General
1665	97.4	84.4	92.9	107.0	73.3	94.6	82.0	116.7	98.4
1666	94.9	75.0	87.9	105.8	71.8	90.5	80.8	116.7	95.2
1667	89.9	56.3	78.1	107.4	71.8	83.6	78.3	125.0	91.6
1668	78.1	75.0	89.6	111.2	102.6	88.5	82.0	125.0	100.3
1669	78.8	68.6	75.2	101.9	164.1	87.7	72.7	125.0	94.4
1670	77.7	68.6	74.5	101.3	106.6	83.3	72.2	125.0	91.1
1671	82.9	87.5	84.5	99.8	100.0	89.9	74.8	116.7	94.5
1672	98.9	75.0	90.5	105.7	117.9	95.1	82.8	112.5	97.9
1673	96.6	76.5	89.6	106.6	139.2	96.3	81.6	116.7	99.6
1674	125.9	86.2	112.1	121.3	117.9	112.7	96.3	116.7	112.6
1675	120.6	87.5	109.0	118.6	100.0	109.1	93.6	116.7	109.8
1676	104.3	85.9	97.9	110.5	85.2	99.4	85.5	116.7	102.1
1677	124.2	75.0	106.9	110.0	82.1	103.3	95.4	95.8	101.4
1678	131.0	75.0	111.4	117.6	78.2	107.7	98.8	104.2	106.5
1679	123.2	62.5	102.0	115.8	71.8	100.2	94.9	108.3	101.6
1680	90.9	62.5	81.0	95.5	71.8	82.6	78.8	100.0	85.9
1681	73.2	72.4	72.9	86.6	71.8	76.4	69.9	100.0	80.8
1682	77.5	75.0	76.6	88.7	71.8	79.4	72.1	100.0	83.1
1683	81.7	92.6	85.5	90.8	69.8	86.5	74.2	100.0	88.6
1684	119.9	93.7	110.7	109.9	65.4	106.0	93.3	100.0	104.2
1685	94.8	75.0	87.9	97.4	75.7	88.5	80.7	100.0	90.4
1686	89.4	75.0	84.4	101.0	88.5	88.2	78.0	112.5	92.6
1687	91.2	93.7	92.1	103.9	87.2	95.0	78.9	116.7	98.6
1688	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1689	96.0	93.7	95.2	104.7	130.8	100.0	81.4	113.3	101.7
1690	94.0	68.6	85.1	107.0	133.3	92.7	80.3	120.0	97.5
1691	81.9	87.5	83.9	103.5	123.1	92.0	74.3	125.0	97.7
1692	85.2	87.5	86.0	110.2	128.2	95.4	75.9	135.3	102.4
1693	132.6	112.5	125.5	133.9	112.8	125.8	99.6	135.3	126.4
1694	130.6	125.0	128.6	115.3	117.9	124.1	98.6	100.0	118.0
1695	118.0	131.2	122.6	121.6	117.9	122.8	92.3	125.2	121.7
1696	148.5	177.7	158.7	131.4	123.1	150.7	107.6	114.3	141.3
1697	168.0	255.7	198.7	177.8	119.2	192.8	117.3	187.5	188.0
1698	184.4	300.0	224.9	186.0	123.1	214.3	125.5	187.5	204.5
1699	133.0	173.0	147.0	149.8	102.6	147.1	99.8	166.7	148.6
1700	110.1	216.7	147.4	138.4	123.1	149.4	88.4	166.7	149.8
1701	92.2	137.5	108.0	112.8	102.6	111.5	79.4	133.3	114.3
1702	99.3	142.6	113.3	118.4	102.6	117.1	83.0	137.5	119.5
1703	103.9	119.1	109.2	112.1	102.6	110.4	85.3	120.3	111.1
1704	100.7	152.7	118.9	100.4	102.6	115.8	83.7	100.0	111.1
1705	109.3	139.9	120.0	117.1	92.3	119.1	88.0	125.0	118.7
1706	108.6	133.2	117.2	116.8	92.3	116.8	87.6	125.0	117.0
1707	123.0	129.1	125.1	121.6	92.3	122.4	94.8	120.3	120.6
1708	146.0	125.0	138.7	139.7	92.3	134.7	106.4	133.3	133.0
1709	195.0	125.0	170.5	173.8	82.1	161.5	130.8	152.6	158.2
1710	124.3	111.8	119.9	124.6	92.3	118.6	95.5	125.0	118.7
1711	101.8	114.7	106.3	107.1	86.7	106.0	84.2	112.5	106.2
1712	99.0	114.7	104.5	116.2	86.7	107.3	82.8	133.3	111.3
1713	88.4	114.7	97.6	106.7	86.7	100.8	77.5	125.0	104.5
1714	115.2	114.7	115.0	120.1	86.7	114.5	90.9	125.0	115.4
1715	74.2	114.7	88.4	112.1	86.7	96.9	70.5	150.0	106.2
1716	71.6	114.7	86.7	113.9	86.7	96.4	69.2	156.3	107.0
1717	122.9	101.4	115.4	134.4	86.7	117.3	94.8	145.8	121.9
1718	170.0	140.2	159.6	210.0	86.7	166.5	118.3	250.0	180.8
1719	146.0	120.5	137.1	163.2	86.7	139.2	106.3	180.3	145.8

Appendix 2.2. Commodity indices 1665-1736 (1688=100) continued.

	Grain	Flour & bread	Vegetables, fruits & berries	Fish	Colonial goods	Food	Beverages & tobacco	Clothing & footwear	General
1720	82.8	68.3	77.8	144.2	86.7	95.2	74.7	205.6	116.3
1721	72.9	60.2	68.5	140.2	86.7	88.1	69.8	207.4	111.0
1722	75.0	61.9	70.4	120.2	86.7	84.0	70.8	165.4	99.6
1723	87.2	72.0	81.9	133.8	86.7	95.2	77.0	180.3	111.3
1724	90.9	75.0	85.3	135.6	86.7	97.9	78.8	180.3	113.5
1725	87.0	71.8	81.7	126.2	80.0	92.6	76.8	165.4	106.3
1726	110.8	91.4	104.0	113.7	80.0	103.9	88.7	116.7	105.7
1727	96.7	79.8	90.8	135.1	80.0	100.9	81.7	173.5	114.5
1728	76.3	63.0	71.6	118.0	86.7	84.2	71.5	159.6	98.7
1729	63.8	52.6	59.9	129.3	86.7	79.6	65.2	194.8	101.9
1730	69.2	57.1	65.0	113.2	86.7	78.6	67.9	157.1	93.8
1731	73.6	60.7	69.1	99.4	86.7	77.6	70.1	125.3	86.8
1732	86.5	71.3	81.2	106.6	86.7	87.5	76.6	126.7	94.8
1733	87.3	72.0	81.9	107.0	86.7	88.0	77.0	126.7	95.2
1734	98.8	81.5	92.8	112.8	86.7	96.7	82.8	126.7	102.0
1735	99.5	82.0	93.4	109.7	80.0	95.8	83.1	120.0	100.0
1736	85.5	70.5	80.2	106.1	86.7	86.7	76.1	126.7	94.2

Appendix 2.3. Commodity indices 1736-1816 (1750=100).

	Danish barley	English barley	Hol- stein barley	Irish & Scottish barley	Nor- wegian barley	Barley	Danish oat	Hol- stein oat	Nor- wegian oat	Oat
1736	87.0	82.3	89.4	81.5	85.1	85.3	80.5	86.3	77.0	79.6
1737	86.5	82.0	84.7	80.8	85.2	84.7	67.5	88.6	77.4	77.7
1738	100.0	91.2	94.2	89.0	92.8	93.4	88.3	97.7	85.3	88.4
1739	91.8	83.0	88.8	80.8	90.2	88.9	93.4	88.6	77.4	82.8
1740	125.0	143.0	150.9	111.7	121.7	126.5	137.8	162.7	113.7	128.3
1741	158.9	157.4	167.6	139.2	153.8	155.2	165.1	174.6	138.6	151.1
1742	149.1	141.4	153.3	132.9	145.3	145.4	156.1	157.0	129.1	140.1
1743	122.5	116.7	118.9	112.4	108.3	112.3	118.2	124.5	90.2	102.6
1744	96.2	92.0	93.9	88.8	96.4	95.1	99.2	104.5	82.9	90.5
1745	90.8	90.1	89.3	82.8	89.3	89.0	96.3	102.0	88.7	92.9
1746	87.8	83.8	82.6	77.1	79.9	81.3	94.4	88.7	82.5	86.1
1747	91.8	83.8	90.2	78.4	90.2	88.9	93.7	100.0	88.1	91.6
1748	102.3	95.6	104.4	88.2	98.0	98.3	99.9	118.1	98.1	102.5
1749	129.8	121.1	120.5	122.0	120.8	122.0	129.4	123.7	123.7	124.9
1750	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1751	97.6	89.8	94.7	96.3	94.7	94.8	92.5	91.5	98.9	96.1
1752	102.4	83.8	95.1	107.8	95.0	96.0	98.5	98.4	100.0	99.4
1753	97.1	83.8	90.2	99.8	90.2	91.3	90.0	90.9	91.5	91.1
1754	102.9	90.1	100.0	105.3	100.0	100.0	97.9	99.8	100.6	99.9
1755	96.3	95.0	93.9	97.1	91.7	93.2	88.7	96.9	97.7	95.8
1756	115.5	110.1	108.5	121.1	109.8	111.2	108.7	108.1	107.9	108.1
1757	135.9	135.2	112.9	130.7	123.9	125.4	124.2	123.1	119.8	121.3
1758	152.2	152.0	140.9	144.6	141.3	143.7	135.6	133.3	131.1	132.4
1759	140.4	140.2	130.3	132.5	131.0	132.9	128.7	123.6	124.2	125.0
1760	117.6	110.6	150.0	111.8	109.1	115.4	112.5	101.7	108.5	107.9
1761	111.8	100.0	112.5	111.8	104.9	106.8	120.6	123.7	116.4	118.7
1762	111.8	82.4	113.6	101.2	113.6	109.9	133.0	137.6	129.9	132.1
1763	140.4	130.3	140.2	130.4	130.3	132.7	126.9	140.4	123.2	127.4
1764	136.3	124.6	126.5	140.4	128.0	129.6	132.5	152.5	109.6	122.8
1765	141.6	124.6	134.1	133.1	139.0	137.1	136.9	131.1	138.4	136.6
1766	149.8	129.2	139.0	149.8	139.0	140.4	161.2	145.8	153.1	153.3
1767	133.9	124.6	129.2	133.9	139.0	135.7	161.2	145.8	138.4	144.5
1768	135.1	129.7	130.3	140.4	130.3	131.7	127.5	123.2	123.2	124.0
1769	110.2	103.3	104.6	115.1	106.8	107.4	110.7	100.1	100.1	102.2
1770	110.3	122.7	104.7	109.2	109.3	109.9	106.1	102.4	102.4	103.2
1771	130.3	129.3	122.9	116.7	114.1	118.5	140.8	133.7	109.6	120.7
1772	150.2	140.8	142.4	136.6	134.5	138.0	164.1	158.2	135.6	145.8
1773	154.4	133.2	143.3	155.4	136.0	140.4	157.2	155.6	159.1	158.0
1774	138.4	131.9	129.5	139.5	125.7	129.3	120.6	116.4	127.1	123.7
1775	122.4	123.4	117.4	125.0	118.9	120.0	110.9	102.4	114.1	111.1
1776	119.2	112.6	117.0	112.4	113.6	114.5	108.0	102.7	106.3	105.9
1777	109.4	109.2	111.4	107.8	111.4	110.7	105.6	102.4	104.4	104.2
1778	115.3	111.7	116.3	111.3	115.2	114.7	116.3	114.3	107.1	110.4
1779	115.7	109.7	114.5	115.2	113.2	113.5	108.4	107.1	107.1	107.3
1780	109.6	102.7	106.6	108.6	105.4	106.1	101.5	103.6	101.5	101.9
1781	116.5	107.4	113.0	111.5	112.7	112.7	110.3	109.3	104.5	106.6
1782	137.1	125.4	137.3	135.2	136.3	135.5	132.0	132.7	128.8	130.2
1783	151.0	131.7	146.2	148.4	139.1	141.5	144.0	154.1	144.2	146.1
1784	168.8	145.6	163.4	166.1	157.4	159.2	153.3	148.7	143.4	146.4
1785	164.2	166.2	162.7	169.1	159.8	161.9	163.3	166.8	152.9	157.8
1786	165.8	159.2	162.3	170.8	165.1	164.8	165.0	164.2	172.3	169.2
1787	159.8	147.4	158.6	159.4	154.2	155.2	157.6	141.2	151.3	150.6
1788	137.0	128.0	138.4	138.1	134.7	135.1	134.0	134.0	131.0	132.2
1789	152.1	136.9	147.3	147.7	147.3	147.1	152.0	148.0	148.3	149.0
1790	164.6	150.8	162.3	158.7	156.1	157.7	162.0	155.6	159.7	159.3

Appendix 2.3. Commodity indices 1736-1816 (1750=100) continued.

	Danish barley	Eng- lish barley	Holstein barley	Irish & Scottish barley	Nor- wegian barley	Bar- ley	Danish oat	Holstein oat	Nor- wegian oat	Oat
1791	147.7	135.6	145.9	141.2	140.9	141.9	146.8	140.3	142.1	142.7
1792	143.2	141.6	148.9	143.2	141.3	142.6	136.1	133.8	138.2	136.9
1793	168.9	161.2	174.3	174.3	166.7	168.0	157.1	155.5	152.1	153.8
1794	185.0	176.1	183.4	176.7	174.3	177.0	155.9	171.8	154.4	158.2
1795	202.6	178.3	201.4	194.9	182.6	187.9	176.5	177.6	163.9	169.2
1796	181.7	162.6	182.5	176.5	167.6	171.4	162.7	165.0	153.4	157.6
1797	137.5	126.6	140.5	135.7	131.9	133.5	129.1	132.5	124.6	127.1
1798	144.1	142.1	152.8	154.4	147.0	147.5	133.4	154.5	130.4	135.8
1799	194.3	157.7	194.7	182.9	180.3	182.1	227.5	212.4	205.6	211.4
1800	263.4	231.1	282.4	261.4	242.6	250.5	277.5	269.5	237.8	252.1
1801	319.2	290.8	316.7	316.1	293.2	300.8	300.0	301.7	271.2	283.1
1802	234.1	237.2	246.9	242.6	225.3	231.3	245.9	239.7	239.7	240.9
1803	280.8	235.4	277.3	239.0	237.9	247.6	302.5	288.1	258.8	273.4
1804	212.3	204.1	216.5	225.2	206.3	209.5	253.1	240.0	232.4	238.0
1805	236.7	250.7	250.0	258.8	230.3	237.3	257.5	257.6	232.8	242.7
1806	271.8	268.3	288.6	287.8	263.6	269.9	285.6	272.9	258.2	266.6
1807	273.5	268.3	288.6	284.1	263.6	269.8	277.5	264.4	235.0	249.4
1808	426.2	425.1	457.3	421.1	410.7	420.1	413.9	407.2	403.7	406.4
1809	870.2	787.3	847.0	770.6	807.6	815.2	772.5	743.5	714.1	731.7
1810	808.8	808.6	861.5	795.3	803.0	810.6	692.8	690.0	653.4	668.6
1811	1219.4	1604.3	1233.5	1352.4	1182.1	1240.1	1051.2	1102.1	1026.9	1046.8
1812	2106.1	3312.0	3166.7	2861.6	3048.5	2955.7	3092.5	2678.5	3035.0	2975.2
1813	6317.0	7521.0	7678.7	7172.2	6747.2	6903.3	6811.9	6874.2	6371.0	6559.8
1814	7400.7	8500.8	9503.3	8468.3	8468.3	8467.0	8027.4	8250.7	7722.5	7889.1
1815	5948.7	6698.3	6149.1	6265.4	6224.8	6223.7	6066.8	5995.3	6522.0	6325.6
1816	10037.8	11884.0	10116.5	10679.4	10065.3	10262.8	10453.1	10567.8	9750.0	10054.2

Appendix 2.3. Commodity indices 1736-1816 (1750=100) continued.

	Rostock & Hols- tein rye	Köning- sberg & Riga rye	Danzig rye	Danish rye	Rye	Polish buck- wheat	German buck- wheat	Buck- wheat	Grain
1736	100.0	99.7	91.9	98.7	97.6	85.8	82.5	84.1	85.7
1737	100.0	99.1	90.4	100.0	97.4	91.5	85.9	88.7	85.2
1738	98.3	98.0	91.5	97.8	96.4	81.5	79.2	80.4	90.9
1739	85.1	86.8	79.2	85.4	84.1	75.9	73.5	74.7	84.4
1740	111.0	122.9	103.3	111.8	112.2	124.2	119.5	121.8	123.8
1741	163.3	156.8	151.9	157.3	157.6	148.6	141.2	144.9	153.2
1742	130.9	142.9	128.5	133.4	133.8	121.3	116.3	118.8	138.6
1743	107.7	110.4	107.2	108.4	108.4	104.7	102.3	103.5	107.3
1744	85.5	91.3	91.2	86.8	88.6	89.9	89.9	89.9	91.7
1745	90.6	92.5	91.4	93.5	91.9	98.3	98.2	98.3	91.8
1746	98.0	98.3	98.4	97.8	98.1	103.8	102.3	103.1	88.5
1747	107.4	116.1	110.7	110.2	111.0	107.0	104.6	105.8	96.0
1748	123.1	128.0	121.7	121.0	123.6	122.0	117.3	119.6	106.9
1749	121.7	119.6	120.9	117.8	120.2	135.3	130.1	132.7	123.7
1750	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1751	86.8	89.0	87.7	89.8	88.2	90.5	91.7	91.1	93.6
1752	86.8	91.0	86.1	86.1	87.5	91.7	92.3	92.0	95.1
1753	81.9	83.9	83.2	80.2	82.4	91.1	91.5	91.3	89.4
1754	95.7	94.1	96.0	95.4	95.3	89.8	89.8	89.8	98.0
1755	90.0	91.8	90.9	88.9	90.5	94.2	93.6	93.9	93.6
1756	104.8	108.2	106.4	107.2	106.5	134.7	134.8	134.7	111.5
1757	127.8	129.3	122.4	127.9	126.8	150.2	143.5	146.9	126.4
1758	143.0	155.5	154.1	150.5	150.4	159.5	152.1	155.8	142.3
1759	130.0	139.7	139.2	135.5	135.8	108.1	103.2	105.7	128.0
1760	104.9	106.8	108.3	109.3	107.1	107.0	104.6	105.8	110.1
1761	99.4	99.4	99.2	100.9	99.7	99.1	97.6	98.3	108.7
1762	108.6	108.7	109.9	105.3	108.3	123.7	117.4	120.6	118.4
1763	125.5	123.4	123.7	127.6	124.9	151.1	138.0	144.6	130.5
1764	116.0	114.1	115.2	121.4	116.4	141.7	134.9	138.3	125.4
1765	118.3	116.3	115.2	124.8	118.3	150.1	142.9	146.5	134.1
1766	127.5	125.4	118.7	133.7	126.0	134.1	127.8	130.9	141.1
1767	118.1	118.0	111.7	125.4	117.9	127.0	121.0	124.0	134.0
1768	113.5	114.7	112.1	118.6	114.5	120.9	115.9	118.4	124.2
1769	105.0	107.8	102.1	116.6	107.3	109.7	101.4	105.6	105.4
1770	102.1	102.1	97.2	103.3	101.1	108.9	106.5	107.7	105.6
1771	120.9	122.0	121.8	130.6	123.4	136.0	136.4	136.2	122.0
1772	128.0	125.9	130.8	135.2	129.6	133.1	123.6	128.3	138.1
1773	144.4	142.0	134.4	140.3	140.5	129.2	104.0	116.6	144.2
1774	116.0	117.7	118.4	115.2	116.9	109.5	90.3	99.9	121.9
1775	105.0	108.4	109.9	115.3	109.1	113.3	106.5	109.9	113.7
1776	102.4	106.6	106.6	101.6	104.3	108.5	102.3	105.4	108.6
1777	102.1	103.9	105.6	102.4	103.5	102.9	92.0	97.5	105.7
1778	103.4	105.3	107.4	104.2	105.0	107.2	98.9	103.0	110.1
1779	100.9	106.2	107.4	103.4	104.3	113.2	111.6	112.4	109.4
1780	92.5	98.1	97.1	96.8	95.9	107.7	109.9	108.8	102.9
1781	103.5	107.6	107.0	107.4	106.2	121.0	125.3	123.2	110.3
1782	121.9	124.9	124.4	126.2	124.1	147.5	158.5	153.0	133.1
1783	141.0	147.0	148.7	149.2	146.1	157.9	155.1	156.5	145.6
1784	142.1	145.6	145.1	152.0	145.7	164.9	169.6	167.3	152.9
1785	143.8	151.3	150.4	143.3	147.2	155.1	148.3	151.7	156.5
1786	145.0	151.5	148.8	147.8	148.1	164.1	165.3	164.7	163.0
1787	140.7	144.2	144.9	146.5	143.8	154.5	150.9	152.7	151.1
1788	132.4	140.4	142.2	132.7	136.9	142.6	134.7	138.6	134.8
1789	144.2	154.1	151.0	144.3	148.4	158.3	153.4	155.9	148.9
1790	181.0	184.6	181.4	178.3	181.5	182.9	166.2	174.5	164.7

Appendix 2.3. Commodity indices 1736-1816 (1750=100) continued.

	Rostock & Hols- tein rye	Könings- berg & Riga rye	Danzig rye	Danish rye	Rye	Polish buck- wheat	German buck- wheat	Buck- wheat	Grain
1791	144.4	148.5	149.3	151.1	148.0	141.1	119.3	130.2	142.2
1792	145.9	151.1	152.9	152.5	150.3	141.9	118.5	130.2	140.9
1793	173.3	183.7	186.6	177.7	180.1	174.1	150.0	162.0	164.9
1794	185.4	192.2	196.5	190.4	190.9	183.4	156.8	170.1	172.5
1795	201.6	212.5	207.4	210.4	207.5	214.3	200.3	207.3	187.2
1796	175.0	186.8	182.3	181.4	181.1	187.4	175.6	181.5	169.5
1797	123.9	134.6	134.6	137.8	132.0	138.7	132.1	135.4	131.1
1798	131.8	136.9	136.5	131.3	134.2	146.7	145.7	146.2	140.6
1799	189.7	190.4	180.3	196.9	189.0	201.1	194.3	197.7	195.3
1800	254.8	259.5	258.3	265.2	258.9	278.8	272.7	275.7	255.3
1801	319.8	321.3	320.6	329.4	322.3	335.4	316.2	325.8	301.4
1802	249.9	255.0	249.6	260.5	253.2	263.3	248.0	255.6	241.5
1803	281.4	276.6	261.9	280.0	275.0	283.8	265.1	274.4	264.8
1804	206.3	207.9	196.8	207.4	204.5	225.8	226.7	226.3	220.2
1805	264.2	277.2	272.0	274.6	271.5	288.2	277.8	283.0	250.6
1806	288.3	293.8	301.9	315.8	298.6	307.0	285.5	296.2	277.1
1807	282.5	293.5	301.9	292.3	292.1	307.2	293.2	300.2	270.2
1808	481.9	478.9	464.9	475.8	475.7	474.7	426.1	450.4	429.5
1809	798.9	785.4	743.5	798.8	781.6	785.7	711.6	748.7	772.6
1810	718.1	726.9	717.6	806.6	737.9	753.6	695.5	724.5	737.7
1811	1093.0	1131.4	1082.8	1107.2	1102.9	1216.0	1218.7	1217.4	1142.7
1812	2644.1	2741.4	2663.6	2726.9	2689.9	2693.9	2429.0	2561.4	2869.9
1813	7594.5	8577.5	8633.7	7267.8	8034.7	7973.0	7107.9	7540.5	7073.1
1814	9250.8	10127.3	9161.6	9072.4	9412.0	11321.4	12289.7	11805.6	8787.6
1815	7194.3	7074.3	7790.7	7199.5	7314.5	7564.1	7082.3	7323.2	6587.5
1816	11473.5	11949.3	13702.5	12662.7	12387.5	13277.6	12928.9	13103.2	10898.8

Appendix 2.3. Commodity indices 1736-1816 (1750=100) continued.

	Barley flour	Oat flour	Rye flour	Flour	White peas	Vege- tables	Butter	Dairy prod- ucts	Pork	Mutton
1736	79.2	85.3	110.7	85.1	86.5	86.5	98.5	98.5	75.8	74.9
1737	84.3	86.9	112.7	91.0	82.9	82.9	101.1	101.1	79.2	76.3
1738	91.6	86.9	111.7	93.7	86.3	86.3	101.1	101.1	81.9	79.8
1739	89.2	86.9	106.8	91.8	78.4	78.4	89.9	89.9	87.3	78.0
1740	119.0	125.0	142.1	126.0	112.2	112.2	112.3	112.3	101.4	88.4
1741	141.3	169.7	163.8	157.2	178.9	178.9	129.6	129.6	124.0	93.5
1742	139.2	157.7	149.2	148.6	152.1	152.1	123.5	123.5	118.9	90.2
1743	98.0	125.8	125.7	114.6	111.4	111.4	112.3	112.3	115.9	92.4
1744	84.7	101.3	99.1	94.2	94.2	94.2	100.1	100.1	97.6	83.8
1745	80.3	90.7	106.1	89.6	89.5	89.5	103.6	103.6	97.3	85.0
1746	84.3	88.5	109.6	91.1	89.7	89.7	107.5	107.5	105.0	92.5
1747	91.6	96.7	112.3	97.8	93.2	93.2	107.3	107.3	107.7	93.1
1748	100.3	101.8	124.5	105.8	96.6	96.6	110.8	110.8	112.5	97.7
1749	109.6	119.7	123.0	116.3	114.7	114.7	108.5	108.5	109.2	103.5
1750	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1751	91.6	100.0	118.1	100.2	89.5	89.5	100.0	100.0	97.7	99.4
1752	150.6	98.4	144.6	128.5	93.2	93.2	107.3	107.3	97.7	100.0
1753	85.5	96.7	130.9	99.1	81.8	81.8	120.9	120.9	95.8	97.1
1754	98.8	111.5	150.3	114.2	104.2	104.2	101.7	101.7	94.2	102.9
1755	97.6	104.9	126.4	106.3	100.0	100.0	111.5	111.5	92.7	100.6
1756	113.6	120.7	142.0	122.1	112.6	112.6	118.5	118.5	105.4	110.6
1757	120.5	129.5	147.0	129.4	115.5	115.5	122.3	122.3	105.4	100.6
1758	119.3	118.0	159.8	126.9	143.4	143.4	114.8	114.8	113.1	104.6
1759	114.0	123.7	138.3	122.7	131.0	131.0	109.3	109.3	112.8	104.3
1760	108.4	118.0	123.4	115.3	108.4	108.4	122.3	122.3	118.1	104.0
1761	103.6	124.6	112.0	113.7	111.8	111.8	118.4	118.4	105.4	100.0
1762	103.6	124.6	124.9	116.3	129.2	129.2	118.7	118.7	84.9	131.2
1763	103.6	124.6	135.0	118.3	128.4	128.4	116.2	116.2	109.7	87.9
1764	98.8	129.5	131.0	117.5	136.3	136.3	140.5	140.5	118.1	93.1
1765	134.9	144.3	147.7	141.2	164.2	164.2	136.9	136.9	133.2	115.6
1766	134.9	142.6	167.2	144.5	150.3	150.3	122.3	122.3	133.2	130.6
1767	125.3	147.5	157.0	140.5	118.7	118.7	115.1	115.1	118.1	108.1
1768	130.0	131.1	138.7	132.2	119.4	119.4	108.1	108.1	102.0	109.7
1769	99.7	115.6	122.2	110.5	102.1	102.1	107.9	107.9	109.6	99.4
1770	95.4	114.0	120.1	107.8	104.4	104.4	121.3	121.3	115.2	101.7
1771	111.7	118.9	133.0	118.9	114.9	114.9	134.3	134.3	123.9	111.6
1772	131.1	144.3	158.5	141.8	158.3	158.3	145.9	145.9	133.2	115.6
1773	129.8	162.6	167.4	150.4	162.8	162.8	140.6	140.6	132.0	109.8
1774	115.7	129.5	141.0	126.3	147.5	147.5	111.2	111.2	123.2	104.0
1775	106.0	106.6	122.8	109.6	112.6	112.6	103.6	103.6	113.5	103.2
1776	100.3	101.2	116.4	103.9	106.5	106.5	107.1	107.1	107.8	95.6
1777	97.4	103.9	112.1	102.9	101.4	101.4	114.4	114.4	103.8	92.1
1778	100.7	112.7	117.4	108.8	103.3	103.3	133.2	133.2	122.9	99.1
1779	95.5	106.5	112.6	103.3	113.9	113.9	123.2	123.2	124.1	104.0
1780	96.4	107.7	113.3	104.3	106.8	106.8	108.2	108.2	110.5	91.2
1781	111.7	124.0	130.9	120.5	109.9	109.9	103.6	103.6	118.9	98.8
1782	120.1	131.9	134.8	127.8	128.8	128.8	121.5	121.5	136.5	106.1
1783	130.5	141.0	154.4	139.5	139.0	139.0	158.6	158.6	142.1	106.1
1784	143.8	155.6	156.6	151.1	180.1	180.1	159.9	159.9	151.0	116.3
1785	143.2	154.4	158.2	150.7	160.5	160.5	140.5	140.5	151.3	110.8
1786	148.4	156.8	164.0	154.9	163.2	163.2	142.9	142.9	146.6	126.4
1787	135.9	143.8	162.6	144.4	160.7	160.7	139.4	139.4	153.7	123.8
1788	121.4	146.8	144.7	136.3	140.5	140.5	150.6	150.6	149.3	119.1
1789	130.1	159.3	161.1	148.0	153.5	153.5	157.4	157.4	149.8	122.0
1790	145.3	183.0	186.7	168.6	162.0	162.0	138.0	138.0	139.8	117.9

Appendix 2.3. Commodity indices 1736-1816 (1750=100) continued.

	Barley flour	Oat flour	Rye flour	Flour & bread	White peas	Vege- tables	Butter	Dairy prod- ucts	Pork	Mutton
1791	135.5	165.3	164.9	153.3	146.0	146.0	127.6	127.6	131.4	111.6
1792	133.4	154.3	163.2	147.7	150.3	150.3	136.9	136.9	140.9	112.3
1793	140.2	153.7	205.9	158.7	170.6	170.6	159.1	159.1	155.9	128.2
1794	147.1	160.6	196.4	162.3	172.1	172.1	182.9	182.9	163.3	134.3
1795	154.2	175.4	213.5	174.5	192.4	192.4	192.9	192.9	197.1	161.3
1796	140.2	159.3	186.3	157.0	171.6	171.6	186.1	186.1	185.4	145.8
1797	119.8	135.2	150.9	132.2	145.5	145.5	172.9	172.9	175.5	129.5
1798	126.2	141.0	153.3	137.6	145.3	145.3	165.5	165.5	183.8	139.5
1799	149.4	183.6	216.0	176.4	189.5	189.5	182.1	182.1	165.3	132.9
1800	217.6	252.5	296.0	247.2	325.8	325.8	212.4	212.4	207.7	165.4
1801	289.2	364.8	368.4	335.2	358.4	358.4	210.0	210.0	233.3	151.3
1802	250.1	272.2	289.5	266.8	229.5	229.5	182.1	182.1	202.2	148.0
1803	248.2	301.6	314.4	282.8	288.6	288.6	202.2	202.2	238.9	149.3
1804	216.9	256.7	233.8	236.2	236.6	236.6	180.4	180.4	214.2	153.4
1805	224.1	262.3	294.8	253.5	275.3	275.3	204.5	204.5	271.8	187.3
1806	274.2	272.1	324.2	283.4	283.7	283.7	248.6	248.6	250.2	199.4
1807	214.5	252.5	350.5	256.9	297.9	297.9	299.4	299.4	250.2	198.8
1808	400.8	409.0	543.7	432.6	543.1	543.1	368.9	368.9	385.3	295.5
1809	655.4	741.0	893.5	737.3	983.2	983.2	476.6	476.6	470.2	397.7
1810	565.3	624.4	843.5	644.6	1108.4	1108.4	419.6	419.6	393.3	370.1
1811	919.1	1137.3	1260.7	1074.7	1270.6	1270.6	1478.1	1478.1	1024.0	950.0
1812	2327.7	1941.0	3074.8	2322.4	2402.1	2402.1	2130.2	2130.2	1980.6	1845.1
1813	8691.1	9059.0	9184.4	8936.9	6854.6	6854.6	5940.5	5940.5	8589.4	6719.8
1814	12726.1	13264.8	10758.7	12548.1	8080.8	8080.8	9823.0	9823.0	12589.2	9801.3
1815	8752.7	8074.0	8361.1	8402.9	6702.4	6702.4	5935.3	5935.3	10217.0	8501.7
1816	10230.7	9437.4	12179.6	10303.2	10815.8	10815.8	11489.1	11489.1	14656.1	12138.7

Appendix 2.3. Commodity indices 1736-1816 (1750=100) continued.

	Beaf	Meat	Cod. round	Cod. split	Stock- fish	Clip fish	Salt fish	Ling	Coal- fish	Pol- lock
1736	73.2	74.4	91.1	89.5	90.3	89.2	100.0	84.2	92.8	88.5
1737	74.8	76.3	123.9	84.0	104.0	89.8	100.4	79.0	92.7	83.6
1738	76.9	79.0	91.0	85.1	88.1	85.2	100.4	71.4	89.1	80.0
1739	73.5	78.1	113.4	80.9	97.1	88.9	100.0	84.8	98.2	89.1
1740	84.9	89.6	105.2	96.6	100.9	102.3	123.8	92.9	110.5	106.6
1741	90.5	98.4	94.7	94.9	94.8	89.6	127.4	97.3	105.5	105.5
1742	87.8	95.0	99.3	98.0	98.6	85.3	127.2	93.2	117.3	105.4
1743	87.9	95.3	98.5	98.9	98.7	89.8	107.3	98.1	123.6	130.9
1744	82.7	86.1	92.7	87.1	89.9	81.4	99.2	88.2	101.8	109.1
1745	82.3	86.4	90.3	88.9	89.6	93.6	102.8	94.0	85.9	85.9
1746	90.5	94.2	113.4	116.2	114.8	95.4	100.0	93.3	78.2	78.2
1747	90.5	95.0	126.9	90.4	108.6	103.7	100.0	91.4	81.8	81.8
1748	95.2	99.7	140.3	100.0	120.1	111.1	100.0	89.5	90.9	90.9
1749	103.4	104.6	149.3	106.4	127.8	115.7	112.5	112.3	101.6	104.0
1750	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1751	99.3	99.0	131.3	104.3	117.8	104.6	100.0	92.4	101.8	101.8
1752	100.0	99.5	107.5	90.4	98.9	112.0	97.2	84.8	120.0	120.0
1753	96.6	96.6	132.8	85.1	109.0	107.4	87.9	84.8	114.5	114.5
1754	103.4	101.4	134.3	95.7	115.0	114.8	112.1	93.3	123.6	123.6
1755	100.7	99.0	122.4	97.9	110.1	113.0	107.7	89.5	123.6	120.0
1756	108.2	108.6	114.9	93.6	104.3	113.0	102.4	102.9	140.0	123.6
1757	100.7	101.6	101.5	91.5	96.5	113.0	99.6	91.4	123.6	110.9
1758	104.8	106.4	113.4	93.6	103.5	113.0	102.4	91.4	123.6	96.4
1759	104.5	106.1	123.6	112.2	117.9	105.0	105.0	119.4	128.0	109.3
1760	104.8	107.2	117.9	100.0	109.0	117.6	108.1	115.2	127.3	100.0
1761	101.4	101.6	113.4	114.9	114.2	111.1	110.5	94.3	123.6	100.0
1762	87.8	104.6	131.3	119.1	125.2	117.6	102.4	101.0	123.6	98.2
1763	84.4	90.8	185.1	131.9	158.5	140.7	116.9	106.7	130.9	105.5
1764	91.2	97.3	189.6	135.1	162.3	117.6	112.9	110.5	123.6	98.2
1765	122.4	121.9	213.4	152.1	182.8	137.0	107.3	134.3	150.9	114.5
1766	127.2	129.8	209.0	148.9	178.9	125.9	104.8	136.2	152.7	123.6
1767	109.5	110.7	179.1	127.7	153.4	117.6	104.8	114.3	156.4	123.6
1768	100.0	104.2	191.6	122.7	157.1	106.8	104.3	109.8	145.4	121.7
1769	97.7	100.8	206.7	116.2	161.4	112.3	92.2	124.3	128.2	103.2
1770	104.2	105.4	202.3	121.7	162.0	122.1	99.4	139.2	131.2	108.8
1771	113.6	114.8	205.4	146.4	175.9	138.6	124.9	147.9	145.4	106.5
1772	118.4	120.2	199.9	157.4	178.7	137.0	128.6	144.8	148.5	98.2
1773	112.4	115.3	196.6	149.6	173.1	131.9	123.8	137.4	147.3	98.2
1774	106.5	108.9	198.8	141.7	170.3	123.3	115.6	132.0	151.3	113.5
1775	98.0	103.2	192.8	127.7	160.2	122.8	100.4	135.2	139.1	103.8
1776	95.4	98.0	195.4	119.1	157.3	123.8	95.5	136.7	141.0	102.0
1777	93.3	94.9	155.8	112.3	134.1	120.6	99.4	127.4	128.0	97.6
1778	99.3	103.9	153.1	114.8	134.0	129.9	95.3	119.8	132.1	102.0
1779	102.2	107.3	180.0	115.9	147.9	136.9	98.8	130.8	126.0	90.8
1780	92.4	95.6	207.9	129.7	168.8	139.0	100.1	143.3	132.9	85.1
1781	94.0	100.9	229.2	150.1	189.6	168.3	104.5	153.8	141.1	89.1
1782	103.4	111.1	224.0	176.9	200.4	207.0	136.8	162.6	159.0	95.0
1783	103.5	112.3	220.7	184.0	202.3	197.2	131.3	164.7	156.4	107.1
1784	115.1	122.7	170.1	150.0	160.1	124.1	114.5	153.3	147.3	101.8
1785	113.8	120.1	178.2	134.0	156.1	151.4	106.0	177.3	146.4	87.3
1786	117.6	126.9	173.2	135.4	154.3	168.7	109.3	179.2	145.5	103.6
1787	115.9	126.6	194.7	142.5	168.6	153.1	104.6	176.2	138.2	98.2
1788	113.6	122.9	203.0	146.2	174.6	179.4	103.7	166.7	129.5	98.2
1789	108.2	122.0	202.8	156.1	179.4	190.1	103.3	176.2	133.0	98.2
1790	103.4	116.5	204.2	157.4	180.8	164.8	124.2	184.6	151.4	123.6

Appendix 2.3. Commodity indices 1736-1816 (1750=100) continued.

	Beaf	Meat	Cod. round	Cod. split	Stock- fish	Clip fish	Salt fish	Ling	Coal- fish	Pol- lock
1791	98.0	110.1	180.0	141.7	160.9	149.0	114.1	170.0	149.5	121.1
1792	103.0	114.3	180.6	142.6	161.6	143.1	118.5	177.1	163.6	130.9
1793	117.0	129.2	163.7	139.8	151.8	130.3	123.9	171.5	189.1	149.1
1794	122.4	135.3	170.8	160.0	165.4	144.4	148.4	190.5	198.2	164.5
1795	150.1	164.0	157.6	149.7	153.7	179.6	153.6	202.9	204.6	168.5
1796	142.7	152.5	160.9	139.8	150.4	174.8	150.4	196.7	196.2	148.8
1797	137.1	141.7	165.0	132.9	148.9	182.9	148.9	188.3	176.2	138.2
1798	132.8	145.7	178.5	140.9	159.7	201.0	146.0	194.5	177.3	133.8
1799	148.3	145.5	226.9	174.5	200.7	213.0	160.5	219.0	218.2	178.2
1800	175.4	177.9	222.4	185.1	203.7	209.3	191.1	215.2	243.6	198.2
1801	148.1	166.4	229.9	189.4	209.6	213.0	303.2	219.0	258.2	203.6
1802	153.2	160.9	244.8	217.0	230.9	213.0	179.0	219.0	290.9	225.5
1803	151.6	168.1	284.9	234.2	259.5	230.8	156.5	211.4	276.4	210.9
1804	149.2	163.9	328.7	246.3	287.5	264.6	144.8	195.4	248.7	189.8
1805	183.7	202.7	382.1	280.9	331.5	263.0	175.8	270.5	290.9	236.4
1806	190.5	206.0	337.3	290.4	313.9	259.3	187.1	241.0	363.6	267.3
1807	185.0	203.6	277.6	253.2	265.4	246.3	198.4	240.0	363.6	269.1
1808	293.3	312.6	243.6	304.7	274.2	282.3	324.1	290.4	576.8	279.0
1809	397.3	412.0	322.4	370.2	346.3	344.4	471.0	403.8	589.1	327.3
1810	360.5	370.9	440.8	349.4	395.1	371.1	571.0	362.7	597.2	462.3
1811	936.9	959.6	564.0	620.8	592.4	634.7	756.6	521.7	1082.2	789.1
1812	1741.5	1830.8	1025.4	1225.5	1125.5	994.4	1227.4	1022.9	2192.7	1527.3
1813	5657.6	6668.9	4006.9	5242.7	4624.8	4058.8	5945.6	4656.3	9328.4	6972.3
1814	7698.1	9517.6	5468.9	8254.7	6861.8	6394.1	7867.4	6848.5	11001.8	9227.3
1815	7198.2	8323.4	5145.3	7108.0	6126.7	6256.0	6025.5	6128.1	10272.3	7425.2
1816	12421.2	12755.2	11670.4	11808.5	11739.5	10645.8	8982.6	11628.7	16003.6	12802.9

Appendix 2.3. Commodity indices 1736-1816 (1750=100) continued.

	Floun- der	Herring	Fish	French salt	Norweg- ian salt	Spanish salt	Salt	Col- onial goods	Food
1736	100.0	107.6	93.2	100.0	107.0	101.0	102.7	102.7	87.5
1737	99.2	100.0	97.1	100.4	106.9	100.3	102.6	102.6	89.8
1738	100.0	134.0	92.9	100.4	105.0	96.2	100.6	100.6	91.1
1739	100.8	133.6	99.3	100.0	104.0	87.3	97.1	97.1	88.7
1740	116.0	153.7	110.6	107.7	105.0	100.3	104.3	104.3	111.9
1741	107.5	161.7	107.4	118.5	149.5	106.4	125.1	125.1	132.1
1742	97.4	118.7	103.8	120.5	144.8	117.8	127.9	127.9	124.2
1743	103.3	141.3	108.0	107.3	109.4	122.6	113.1	113.1	107.9
1744	96.6	111.1	94.9	99.2	103.0	114.6	105.6	105.6	93.8
1745	105.0	105.0	93.5	102.8	100.0	108.0	103.6	103.6	92.6
1746	92.5	136.6	105.1	100.0	95.5	96.2	97.2	97.2	96.0
1747	100.8	143.8	105.2	100.0	101.0	95.9	99.0	99.0	99.1
1748	100.8	145.1	112.1	105.0	104.0	100.7	103.2	103.2	105.8
1749	110.3	124.2	118.6	112.5	108.9	114.0	111.8	111.8	114.6
1750	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1751	100.0	120.4	109.6	100.0	101.0	96.8	99.3	99.3	99.9
1752	100.0	144.7	107.7	97.2	99.0	93.9	96.7	96.7	106.3
1753	96.7	149.4	109.7	87.9	89.1	82.2	86.4	86.4	99.1
1754	103.3	124.3	115.0	112.1	99.0	105.7	105.5	105.5	106.6
1755	101.7	133.6	112.8	107.7	102.0	97.8	102.5	102.5	103.9
1756	101.7	116.6	110.6	107.5	104.5	99.7	103.9	103.9	113.1
1757	101.7	128.1	105.3	99.6	100.0	95.9	98.5	98.5	115.0
1758	101.7	119.1	106.3	102.4	99.0	97.8	99.7	99.7	119.6
1759	102.0	113.8	114.2	108.9	103.5	98.1	103.5	103.5	116.7
1760	100.8	102.6	109.9	108.1	101.5	97.5	102.3	102.3	111.1
1761	100.0	91.1	108.4	110.5	99.0	97.5	102.3	102.3	109.1
1762	100.0	152.8	119.9	102.4	99.0	97.5	99.6	99.6	115.2
1763	103.3	151.5	138.8	116.9	105.0	109.6	110.4	110.4	119.3
1764	100.0	105.1	131.2	112.9	99.0	103.8	105.2	105.2	120.6
1765	104.2	145.0	150.7	107.3	99.0	97.5	101.2	101.2	136.7
1766	100.0	153.2	149.4	104.8	99.0	93.6	99.2	99.2	137.1
1767	100.0	152.8	137.0	104.8	99.0	93.6	99.2	99.2	126.1
1768	96.1	118.3	131.9	104.3	97.6	94.2	98.7	98.7	119.9
1769	86.0	103.4	129.0	94.4	98.9	83.8	92.4	92.4	109.4
1770	88.0	119.8	134.7	99.4	118.8	93.0	103.9	103.9	113.2
1771	93.0	214.5	156.9	116.8	134.4	104.6	118.7	118.7	127.5
1772	100.0	147.2	150.5	120.9	134.7	114.6	123.5	123.5	139.2
1773	97.4	139.9	145.6	113.8	139.7	108.9	121.0	121.0	139.7
1774	106.9	142.4	144.7	111.0	127.9	103.2	114.2	114.2	125.1
1775	104.8	108.1	133.7	103.4	115.8	96.4	105.3	105.3	113.2
1776	101.8	116.9	133.0	98.4	120.4	86.4	101.9	101.9	109.8
1777	102.1	128.7	123.1	96.0	108.0	83.4	95.9	95.9	106.5
1778	110.7	133.3	124.7	95.3	115.3	95.6	102.2	102.2	112.9
1779	118.3	130.2	130.9	98.8	111.8	97.2	102.7	102.7	113.3
1780	116.9	129.5	140.4	100.5	105.2	94.1	100.0	100.0	109.9
1781	130.4	143.6	156.3	105.8	112.0	103.6	107.1	107.1	118.9
1782	131.8	131.5	169.4	136.8	139.3	118.0	131.4	131.4	133.6
1783	144.8	155.6	172.7	134.8	141.1	123.1	133.1	133.1	143.5
1784	139.5	166.6	145.1	114.5	130.0	99.0	114.7	114.7	145.3
1785	158.1	173.3	147.8	106.0	125.0	94.6	108.7	108.7	142.1
1786	165.6	179.5	151.7	109.3	130.7	94.3	111.6	111.6	146.7
1787	173.5	189.1	155.4	110.6	134.3	97.3	114.3	114.3	143.0
1788	162.8	178.7	157.6	106.5	121.3	93.5	107.2	107.2	137.5
1789	163.3	182.3	162.1	108.9	124.5	99.1	111.0	111.0	144.8
1790	177.3	177.9	166.2	121.1	130.3	119.2	123.6	123.6	151.0

Appendix 2.3. Commodity indices 1736-1816 (1750=100) continued.

	Floun- der	Herring	Fish	French salt	Norweg- ian salt	Spanish salt	Salt	Col- onial goods	Food
1791	174.3	132.3	149.0	117.2	121.8	110.2	116.5	116.5	136.8
1792	176.3	132.3	151.6	118.5	121.3	97.5	112.5	112.5	137.7
1793	170.7	125.1	148.8	128.7	141.0	109.2	126.5	126.5	150.9
1794	189.5	167.7	167.2	148.4	134.2	132.8	138.4	138.4	161.1
1795	201.8	211.0	173.9	166.9	167.3	138.1	157.5	157.5	176.5
1796	189.3	200.4	167.3	164.8	164.8	133.9	154.6	154.6	164.2
1797	182.8	227.7	167.1	152.2	149.3	124.3	142.0	142.0	146.5
1798	188.8	206.0	171.2	146.0	147.2	117.8	137.1	137.1	149.6
1799	212.6	174.5	196.6	160.5	190.1	130.6	160.7	160.7	178.3
1800	204.7	229.4	209.5	191.1	207.9	155.3	185.0	185.0	225.9
1801	223.5	252.8	228.9	303.2	300.0	273.2	292.2	292.2	262.9
1802	223.5	285.0	232.9	179.0	215.8	183.4	193.0	193.0	219.6
1803	215.8	333.9	246.2	156.5	174.3	157.3	162.8	162.8	234.9
1804	192.1	297.5	249.7	139.5	156.2	133.0	143.0	143.0	210.5
1805	258.3	355.7	292.2	175.8	186.1	172.6	178.3	178.3	242.6
1806	276.7	301.7	287.1	187.1	211.9	198.7	199.4	199.4	259.2
1807	276.7	309.8	268.4	198.4	211.9	189.8	200.1	200.1	254.7
1808	379.0	548.0	341.2	324.1	317.1	303.1	314.8	314.8	384.6
1809	546.7	662.7	425.3	739.4	764.8	645.0	716.9	716.9	610.6
1810	513.0	603.1	458.1	668.0	666.9	586.5	640.7	640.7	582.8
1811	891.1	1072.5	731.2	691.6	692.7	625.2	670.1	670.1	1021.7
1812	1788.0	2251.5	1388.6	1534.3	1726.5	1391.7	1552.6	1552.6	2069.7
1813	7734.4	9089.4	5907.5	5735.0	6367.6	5694.5	5936.7	5936.7	6927.6
1814	10714.4	13358.3	8337.7	9440.9	9196.0	9534.3	9388.5	9388.5	9681.2
1815	7810.1	8494.2	6911.0	7290.6	9009.9	7114.4	7817.0	7817.0	7368.5
1816	13363.2	14359.1	12131.3	11122.5	12563.0	10057.7	11260.9	11260.9	11449.9

Appendix 2.3. Commodity indices 1736-1816 (1750=100) continued.

	Brauns- viger hops	Dutch hops	Beer hops	Danish malt	Irish & Scottish malt	Beer malt	Bever- ages	Tob- acco mats	Dutch tob- acco mats	Trond- hjem tobacco mats
1736	100.0	90.0	95.0	78.0	79.0	78.4	86.7	100.0	101.0	99.0
1737	96.0	80.0	88.0	77.0	77.6	77.2	82.6	100.0	102.0	98.0
1738	96.0	80.0	88.0	86.5	81.7	84.9	86.4	100.0	102.5	97.6
1739	96.3	80.0	88.1	76.6	74.9	76.0	82.1	88.9	91.1	86.7
1740	115.6	83.3	99.4	93.4	95.8	108.4	103.9	83.3	85.4	81.3
1741	127.8	92.0	109.9	129.7	122.3	146.2	128.0	111.1	113.9	108.4
1742	92.6	80.0	86.3	134.8	144.5	138.2	112.2	105.6	108.2	103.0
1743	92.6	80.0	86.3	111.7	100.8	107.9	97.1	72.2	74.0	70.5
1744	88.0	73.3	80.6	86.9	83.3	85.6	83.1	75.6	73.6	70.0
1745	96.3	86.7	91.5	77.0	72.2	75.3	83.4	94.4	96.8	92.1
1746	92.6	100.0	96.3	81.6	79.5	80.8	88.6	94.4	96.8	92.1
1747	92.6	113.3	103.0	93.3	77.2	87.6	95.3	94.4	96.8	92.1
1748	96.3	119.0	107.6	94.5	89.7	92.9	100.3	100.0	102.0	98.0
1749	119.1	113.3	116.2	124.1	123.2	123.8	120.0	105.6	106.9	104.3
1750	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1751	96.3	86.7	91.5	74.5	76.8	75.3	83.4	94.4	95.6	93.3
1752	100.0	100.0	100.0	81.6	82.1	81.8	90.9	94.4	96.3	92.6
1753	92.6	113.3	103.0	80.9	86.7	82.9	92.9	94.4	96.8	92.1
1754	92.6	173.3	133.0	82.3	90.0	85.0	109.0	61.1	62.6	59.6
1755	96.3	113.3	104.8	78.0	88.2	81.6	93.2	94.4	96.8	92.1
1756	133.3	106.7	120.0	81.6	87.5	83.6	101.8	97.8	100.2	95.4
1757	96.3	86.7	91.5	117.7	123.0	119.6	105.5	100.0	102.5	97.6
1758	96.3	66.7	81.5	126.2	130.0	127.6	104.5	94.4	96.8	92.1
1759	96.3	66.7	81.5	124.1	125.0	124.4	103.0	97.0	98.3	96.1
1760	96.3	80.0	88.1	101.1	108.4	103.6	95.9	100.0	100.0	100.0
1761	92.6	80.0	86.3	101.1	113.3	105.3	95.8	100.0	100.0	100.0
1762	96.3	73.3	84.8	91.5	87.1	89.9	87.4	102.1	105.3	100.0
1763	96.3	86.7	91.5	124.1	115.0	120.9	106.2	100.0	100.0	100.0
1764	96.3	73.3	84.8	134.0	123.2	130.2	107.5	100.0	100.0	100.0
1765	96.3	86.7	91.5	115.2	123.6	118.2	104.8	100.0	100.0	100.0
1766	96.3	73.3	84.8	133.7	138.4	135.3	110.1	100.0	100.0	100.0
1767	96.3	100.0	98.1	110.6	123.6	115.2	106.7	100.0	100.0	100.0
1768	120.6	105.4	113.0	110.8	123.8	115.3	114.2	95.0	97.9	93.0
1769	111.1	86.7	98.9	94.9	110.5	100.3	99.6	86.0	86.0	86.0
1770	129.6	86.7	108.1	100.7	113.1	105.0	106.6	88.0	88.0	88.0
1771	96.3	73.3	84.8	113.4	112.5	113.1	99.0	95.0	97.9	93.0
1772	96.3	78.4	87.3	122.0	116.0	119.9	103.6	102.1	105.3	100.0
1773	86.7	79.3	83.0	126.0	104.0	118.3	100.6	97.0	100.0	95.0
1774	83.5	91.5	87.5	117.4	94.4	109.4	98.4	95.2	100.4	91.8
1775	84.3	99.2	91.7	91.7	88.2	90.5	91.1	98.2	102.9	95.0
1776	81.9	85.2	83.5	89.1	92.9	90.4	87.0	92.7	98.4	88.9
1777	81.9	82.1	82.0	88.0	88.7	88.2	85.1	94.1	101.1	89.4
1778	86.7	86.3	86.5	92.9	95.5	93.8	90.1	105.8	126.3	92.1
1779	88.0	78.0	83.0	93.8	97.2	95.0	89.0	102.3	122.1	89.0
1780	84.4	84.0	84.2	94.0	97.2	95.1	89.7	110.0	119.1	97.5
1781	86.7	96.3	91.5	99.0	102.8	100.3	95.9	113.6	121.6	99.8
1782	88.9	115.5	102.2	113.6	117.4	114.9	108.6	118.2	128.1	107.3
1783	96.3	124.7	110.5	130.9	137.9	133.3	121.9	99.0	106.4	94.1
1784	94.0	138.0	116.0	146.0	158.3	150.3	133.2	92.8	99.7	88.2
1785	91.5	113.3	102.4	142.0	158.0	147.6	125.0	80.4	86.4	76.5
1786	102.8	117.2	110.0	147.5	158.2	151.2	130.6	74.3	79.8	70.6
1787	108.1	130.2	119.1	142.3	154.5	146.6	132.9	71.8	75.8	69.2
1788	103.7	136.8	120.3	123.0	135.0	127.2	123.7	75.6	79.1	73.2
1789	100.0	158.7	129.3	130.4	140.9	134.0	131.7	80.5	86.4	76.5
1790	126.8	113.3	120.0	140.4	164.9	149.0	134.5	100.0	100.0	100.0

Appendix 2.3. Commodity indices 1736-1816 (1750=100) continued.

	Braun- sviger hops	Dutch hops	Beer hops	Danish malt	Irish & Scottish malt	Beer malt	Bever- ages	Tob- acco mats	Dutch tob- acco mats	Trond- hjem tobacco mats
1791	138.5	113.3	125.9	124.1	142.6	130.6	128.3	63.7	68.4	60.5
1792	134.5	117.2	125.8	121.8	140.3	128.2	127.0	100.0	100.0	100.0
1793	124.9	126.0	125.4	137.6	158.6	144.9	135.2	106.1	106.1	106.1
1794	133.8	138.6	136.2	142.2	174.1	153.4	144.8	110.9	110.9	110.9
1795	141.8	148.6	145.2	169.9	196.7	179.3	162.2	117.3	117.3	117.3
1796	131.0	134.6	132.8	153.0	159.0	155.1	143.9	119.4	122.5	119.6
1797	96.3	136.7	116.5	130.9	133.1	131.6	124.1	110.8	113.8	110.8
1798	95.0	196.6	145.8	124.8	123.1	124.2	135.0	111.3	128.4	112.1
1799	183.8	279.4	231.6	196.0	199.8	197.3	214.5	166.6	178.9	158.4
1800	192.6	285.8	239.2	230.4	268.9	243.9	241.5	178.9	178.9	178.9
1801	205.0	299.8	252.4	242.6	282.5	256.5	254.5	193.1	193.1	193.1
1802	215.1	276.5	245.8	195.0	237.0	209.7	227.7	208.7	202.1	199.9
1803	192.6	320.0	256.3	204.3	240.3	216.9	236.6	207.7	207.7	205.5
1804	173.3	300.6	236.9	179.4	201.2	187.0	212.0			
1805	251.9	346.7	299.3	198.6	243.3	214.2	256.8			
1806	277.8	346.7	312.2	227.3	258.6	238.2	275.2			
1807	207.4	346.7	277.0	231.9	268.4	244.7	260.9			
1808				357.1	428.6	382.2	408.8			
1809				818.4	734.9	789.2	819.9			
1810				806.5	701.3	769.7	797.1			
1811				1220.1	1507.3	1320.6	1416.8			
1812				2495.7	2342.4	2442.1	2548.1			
1813				6688.2	7457.6	6957.5	7386.2			
1814				8357.4	9323.0	8695.4	9231.5			
1815				6950.7	7780.4	7241.1	7690.3			
1816				10064.5	12226.2	10821.1	11589.1			

Appendix 2.3. Commodity indices 1736-1816 (1750=100) continued.

	Tob- acco	Snuff tob- acco	Dutch snuff tob- acco	Trond- hjem snuff tobacco	Pro- cessed tob- acco	Tob- acco	Bever- ages & tob- acco	Riga hemp	Unpro- cessed hemp
1736	99.9	95.0	91.0	93.0	93.0	96.5	91.6	98.1	97.2
1737	99.8	94.4	90.0	94.4	93.1	96.5	89.5	105.9	93.7
1738	99.8	100.0	95.0	98.9	98.1	98.9	92.7	83.9	88.1
1739	88.7	88.9	85.0	90.0	88.2	88.4	85.3	82.6	86.6
1740	83.1	94.4	90.0	96.1	93.8	88.5	96.2	83.0	89.3
1741	110.9	111.1	105.0	111.1	109.3	110.1	119.0	101.6	97.2
1742	105.3	111.1	105.0	111.1	109.3	107.3	109.8	106.9	111.5
1743	72.1	100.0	95.0	102.8	99.6	85.8	91.5	114.1	121.7
1744	72.7	87.4	85.6	88.6	87.3	80.0	81.6	112.8	118.6
1745	94.2	94.4	90.0	94.4	93.1	93.7	88.5	125.6	130.4
1746	94.2	94.4	90.0	94.4	93.1	93.7	91.1	121.6	128.1
1747	94.2	94.4	90.0	94.4	93.1	93.7	94.5	108.5	120.6
1748	99.8	100.0	100.0	102.8	101.1	100.5	100.4	112.3	124.8
1749	105.4	105.6	105.0	108.3	106.5	106.0	113.0	112.9	126.0
1750	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1751	94.3	94.4	95.0	94.4	94.6	94.5	88.9	107.2	103.6
1752	94.3	94.4	92.5	94.4	93.9	94.1	92.5	108.5	102.4
1753	94.2	94.4	94.0	97.2	95.4	94.8	93.9	103.0	97.6
1754	61.0	94.4	85.0	88.9	89.4	75.2	92.1	101.6	101.2
1755	94.2	94.4	92.0	95.6	94.2	94.2	93.7	98.0	100.4
1756	97.5	97.8	89.3	99.7	98.4	97.9	99.9	98.4	89.3
1757	99.8	100.0	90.0	94.4	94.8	97.3	101.4	94.1	94.9
1758	94.2	94.4	90.0	94.4	93.1	93.7	99.1	100.3	87.0
1759	97.0	97.2	92.5	95.6	95.1	96.1	99.5	100.0	90.0
1760	100.0	98.1	95.0	94.4	95.7	97.9	96.9	100.3	94.9
1761	100.0	100.0	95.0	94.4	96.3	98.1	97.0	98.0	100.8
1762	102.2	102.8	100.0	94.4	98.6	100.4	93.9	107.9	99.6
1763	100.0	100.0	95.0	94.4	96.3	98.1	102.2	101.6	112.3
1764	100.0	100.0	95.0	94.4	96.3	98.1	102.8	99.0	99.6
1765	100.0	100.0	95.0	94.4	96.3	98.1	101.5	104.6	105.1
1766	100.0	102.8	100.0	94.4	98.6	99.3	104.7	108.9	105.1
1767	100.0	100.0	95.0	94.4	96.3	98.1	102.4	108.9	110.7
1768	95.1	95.6	93.0	87.8	91.7	93.4	103.8	110.4	114.0
1769	86.0	86.0	81.7	81.2	82.8	84.4	92.0	108.6	112.9
1770	88.0	88.0	83.6	83.1	84.7	86.4	96.5	103.6	111.0
1771	95.1	95.6	93.0	87.8	91.7	93.4	96.2	108.9	110.7
1772	102.2	102.8	100.0	94.4	98.6	100.4	102.0	104.6	110.7
1773	97.1	100.2	97.5	89.7	95.2	96.2	98.4	95.8	97.8
1774	95.4	96.3	95.4	86.7	92.2	93.8	96.1	101.8	109.3
1775	98.3	99.2	96.3	88.4	94.0	96.1	93.6	95.2	102.1
1776	92.9	100.8	90.8	96.8	96.2	94.6	90.8	92.3	99.8
1777	94.3	96.3	92.0	92.4	93.4	93.9	89.5	91.3	94.5
1778	106.5	117.3	113.1	115.6	115.4	110.9	100.5	99.1	108.5
1779	102.9	124.9	116.3	121.4	120.9	111.9	100.5	99.5	114.8
1780	107.7	127.7	113.7	122.1	121.3	114.5	102.1	101.2	112.5
1781	110.5	137.8	124.0	132.3	131.4	121.0	108.4	101.4	109.6
1782	116.8	149.3	136.2	144.1	143.3	130.0	119.3	112.0	123.3
1783	99.3	144.4	140.3	105.6	127.6	113.4	117.7	121.6	129.8
1784	93.1	130.6	136.3	100.0	120.1	106.6	119.9	133.4	146.0
1785	80.6	125.0	126.9	100.0	115.6	98.1	111.6	125.9	132.8
1786	74.4	111.1	120.0	88.9	104.9	89.7	110.1	119.0	131.2
1787	72.0	108.9	115.1	88.0	102.4	87.2	110.0	125.2	140.7
1788	75.7	105.7	112.0	85.9	99.7	87.7	105.7	122.8	138.7
1789	80.7	108.2	114.0	94.4	104.4	92.5	112.1	143.4	146.6
1790	100.0	126.7	123.5	116.1	121.5	110.7	122.6	155.3	169.3

Appendix 2.3. Commodity indices 1736-1816 (1750=100) continued.

	Tob- acco	Snuff tob- acco	Dutch snuff tob- acco	Trond- hjem snuff tobacco	Pro- cessed tob- acco	Tob- acco	Bever- ages & tob- acco	Riga hemp	Unpro- cessed hemp
1791	63.9	130.0	117.0	124.8	124.0	93.9	111.1	139.6	157.2
1792	100.0	126.4	117.7	122.9	122.4	111.2	119.1	137.4	146.0
1793	106.1	144.4	130.0	138.7	137.8	122.0	128.6	132.5	141.1
1794	110.9	144.4	142.2	143.6	143.4	127.1	136.0	132.0	137.5
1795	117.3	144.4	143.9	144.2	144.2	130.7	146.5	169.7	170.7
1796	120.4	145.0	137.8	146.6	143.5	131.9	137.9	163.2	163.2
1797	111.7	133.6	123.5	129.6	129.0	120.3	122.2	163.3	176.1
1798	116.8	132.9	119.6	127.6	126.8	121.8	128.4	171.1	199.2
1799	167.0	366.7	330.0	352.0	349.8	258.4	236.4	162.0	179.4
1800	178.9	366.7	330.0	352.0	349.8	264.4	253.0	186.9	204.0
1801	193.1	366.7	330.0	352.0	349.8	271.5	263.0	196.7	216.6
1802	203.2	338.9	305.0	325.3	323.3	263.3	245.5	191.9	161.1
1803	206.8	340.0	306.0	326.4	324.4	265.6	251.1	202.8	221.2
1804							212.0	180.2	204.9
1805							256.8	231.5	247.4
1806							275.2	225.6	256.1
1807							260.9	221.6	245.1
1808							408.8	379.7	426.1
1809							819.9	768.5	909.1
1810							797.1	961.9	938.4
1811							1416.8	1747.7	1664.8
1812							2548.1	2604.6	2500.6
1813							7386.2	7906.2	7801.8
1814							9231.5	8704.8	9264.3
1815							7690.3	8406.9	8100.0
1816							11589.1	11813.1	12189.7

Appendix 2.3. Commodity indices 1736-1816 (1750=100) continued.

	Hemp	Linnen, sup-reme	Linnen, inf-erior	Wood linnen	Linn-en	Sacking of linnen	Sacking of hemp	Sacking	Texties & cloth -ing
1736	97.7	96.1	95.1	95.4	95.6	104.2	101.6	103.2	98.0
1737	100.4	95.4	95.0	94.4	94.9	105.8	102.2	104.3	98.6
1738	85.8	97.4	96.3	94.4	96.0	100.0	96.4	98.6	94.1
1739	84.4	92.2	91.5	90.2	91.3	100.0	96.3	98.5	91.4
1740	85.8	84.6	88.2	94.7	89.4	86.1	87.4	86.6	87.8
1741	99.7	104.9	103.1	99.6	102.4	100.0	99.8	99.9	101.1
1742	108.9	96.8	96.5	95.9	96.4	101.7	101.2	101.5	100.8
1743	117.5	104.6	105.0	105.6	105.1	113.3	112.3	112.9	110.2
1744	115.4	120.2	106.6	107.9	112.6	121.4	120.1	120.9	115.4
1745	127.8	149.3	151.1	154.5	151.7	145.7	147.2	146.3	144.4
1746	124.5	142.0	137.6	129.3	136.1	138.7	138.0	138.4	133.8
1747	113.9	115.4	116.0	117.3	116.3	123.1	120.0	121.9	117.1
1748	117.9	114.1	122.1	112.5	121.4	128.0	119.4	128.9	122.4
1749	118.8	110.5	116.6	112.1	117.4	119.3	114.2	123.1	119.2
1750	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1751	105.6	106.7	98.0	102.6	103.3	106.4	106.7	106.5	104.7
1752	105.8	109.6	100.0	102.3	104.7	115.6	111.1	113.8	107.3
1753	100.6	109.9	100.0	98.1	103.2	120.2	117.4	119.1	106.5
1754	101.4	143.2	119.6	106.8	123.9	117.9	123.6	120.2	117.4
1755	99.1	119.4	110.6	107.5	112.9	119.7	120.8	120.1	111.3
1756	94.3	134.5	118.9	102.6	118.6	119.7	120.1	119.8	112.9
1757	94.4	123.2	110.6	110.2	115.5	123.7	106.9	117.0	110.6
1758	94.3	123.2	118.6	115.0	119.0	123.7	120.8	122.6	113.7
1759	95.5	125.5	120.0	117.5	121.2	123.3	118.9	121.5	114.9
1760	97.9	134.5	122.9	119.9	126.4	123.1	116.0	120.3	117.7
1761	99.3	130.7	122.9	124.8	126.8	129.5	129.9	129.6	120.6
1762	104.2	130.7	118.3	119.9	123.9	119.7	120.8	120.1	118.0
1763	106.4	135.7	128.2	126.3	130.4	109.8	123.6	115.3	120.7
1764	99.3	123.2	118.3	119.9	120.9	100.6	102.1	101.2	110.6
1765	104.8	130.7	118.6	119.9	124.0	111.6	120.8	115.3	117.0
1766	107.2	142.0	124.8	127.4	132.7	112.1	108.3	110.6	120.8
1767	109.7	142.0	131.0	124.8	132.9	108.1	102.8	106.0	120.4
1768	112.0	133.2	126.7	135.7	132.9	102.9	115.0	107.7	121.4
1769	110.5	122.1	112.6	109.8	115.3	109.2	111.7	110.2	112.8
1770	106.9	125.0	111.7	109.8	116.3	121.6	118.6	120.4	115.0
1771	109.7	132.1	114.1	116.1	122.1	135.5	120.8	129.6	120.9
1772	107.3	125.8	117.1	122.2	122.6	138.2	120.8	131.2	120.9
1773	96.7	115.0	110.6	112.3	113.1	128.2	110.1	121.0	111.0
1774	105.2	111.1	112.7	112.4	112.0	126.3	112.6	120.8	112.5
1775	98.3	124.8	113.2	115.0	118.6	116.5	103.9	111.5	111.7
1776	95.7	125.9	116.8	113.0	118.9	112.0	101.0	107.6	110.3
1777	92.7	118.5	112.2	121.2	118.3	113.8	107.8	111.4	110.2
1778	103.3	134.3	125.2	124.8	128.7	116.5	107.2	112.8	118.4
1779	106.4	134.9	117.7	118.2	124.8	122.9	109.4	117.5	118.4
1780	106.3	133.2	123.6	120.3	126.1	115.0	103.1	110.3	117.2
1781	105.1	125.7	121.5	133.7	128.0	121.8	114.0	118.7	120.0
1782	117.1	132.1	127.8	152.7	139.5	132.0	121.3	127.7	131.0
1783	125.3	140.1	136.2	165.8	149.6	135.8	146.9	140.2	141.2
1784	139.1	143.6	138.2	162.6	150.1	136.9	147.5	141.2	145.1
1785	129.0	144.4	139.1	173.2	154.8	131.8	140.5	135.3	143.5
1786	124.5	145.9	136.9	175.0	155.8	119.7	136.1	126.2	140.6
1787	132.2	155.9	148.9	181.9	164.9	125.5	134.6	129.2	147.8
1788	129.9	142.9	137.7	166.9	151.5	116.0	128.8	121.1	138.5
1789	144.9	150.1	144.0	175.3	158.9	127.8	141.3	133.2	149.0
1790	161.6	186.3	198.0	185.4	188.3	147.7	160.0	152.6	172.7

Appendix 2.3. Commodity indices 1736-1816 (1750=100) continued.

	Hemp	Linnen, sup- reme	Linnen, in- ferrior	Wood linnen	Linn- en	Sacking of linnen	Sacking of hemp	Sack- ing	Texties & cloth -ing
1791	147.5	184.6	190.7	173.8	181.5	141.6	153.1	146.2	164.2
1792	141.2	187.8	199.7	184.2	188.8	149.8	145.1	148.0	166.7
1793	136.4	193.2	205.4	193.6	195.8	164.2	148.6	157.9	171.5
1794	134.5	186.0	197.7	182.8	187.1	173.8	153.1	165.5	168.5
1795	170.1	169.5	180.2	188.3	179.2	177.2	156.0	168.8	174.3
1796	163.2	165.0	175.0	185.0	175.0	170.4	147.5	161.2	168.6
1797	169.1	163.9	167.7	182.6	172.1	151.4	142.5	147.8	165.3
1798	183.8	173.9	184.9	198.5	186.0	166.3	179.5	171.6	181.8
1799	169.8	189.0	200.9	206.0	198.2	164.2	179.2	170.2	184.1
1800	194.6	211.0	224.3	224.1	218.9	237.6	257.6	245.6	219.5
1801	205.7	191.3	203.4	225.6	207.4	224.3	233.3	227.9	212.1
1802	178.1	230.1	244.7	239.7	236.9	194.5	212.3	201.6	213.4
1803	211.1	254.1	270.1	281.1	268.1	240.1	223.2	233.3	245.1
1804	191.3	229.0	243.5	249.3	240.1	245.6	199.9	227.3	224.7
1805	238.7	258.0	274.2	294.7	275.9	270.5	233.3	255.6	261.5
1806	239.3	272.5	265.0	283.5	275.4	283.2	230.6	262.2	263.1
1807	232.2	264.3	259.5	275.2	267.7	252.0	230.6	243.4	252.8
1808	400.6	430.3	408.1	435.4	427.9	388.1	355.1	374.9	407.8
1809	831.8	739.7	722.3	803.0	761.5	744.5	750.0	746.7	775.4
1810	951.3	935.2			935.2	916.5	925.7	920.2	935.5
1811	1710.4	1616.3			1616.3	1584.0	1599.8	1590.3	1633.3
1812	2557.8	2302.6			2302.6	2256.6	2279.1	2265.6	2357.2
1813	7859.2	7285.0			7285.0	7139.3	7210.6	7167.8	7399.2
1814	8956.6	9437.4			9437.4	9248.6	9572.3	9378.1	9302.4
1815	8268.8	7288.2			7288.2	7288.2	7288.2	7288.2	7533.4
1816	11982.6	13300.9			13300.9	13034.9	13645.8	13279.2	12965.9

Appendix 2.3. Commodity indices 1736-1816 (1750=100) continued.

	Tar	Tallow	Wood	Fish oil	Fuel & lighting	General
1736	96.3	99.0	85.3	84.6	89.0	89.6
1737	96.6	99.2	86.7	88.5	90.2	91.2
1738	87.8	92.0	85.4	84.3	86.7	91.3
1739	81.0	86.4	84.2	90.7	84.3	88.6
1740	84.1	89.0	85.4	102.0	86.6	105.1
1741	97.8	100.2	85.4	98.8	90.2	123.0
1742	87.8	92.0	86.7	95.3	88.1	116.7
1743	84.9	89.6	87.1	99.5	87.7	105.7
1744	85.4	90.0	86.8	86.4	87.1	96.0
1745	97.1	99.6	87.1	85.0	90.3	100.4
1746	94.9	97.8	86.9	96.5	90.2	101.3
1747	93.7	96.8	86.8	96.6	89.8	101.0
1748	97.6	100.0	87.5	103.5	91.7	107.0
1749	99.4	100.0	93.7	110.0	96.3	113.8
1750	100.0	100.0	100.0	100.0	100.0	100.0
1751	97.3	99.8	100.4	101.1	99.9	100.0
1752	98.0	100.4	106.1	99.1	103.7	105.4
1753	97.6	100.0	118.5	101.1	111.7	101.0
1754	95.1	98.0	119.7	106.4	112.1	107.9
1755	99.8	101.8	119.9	104.2	113.4	105.2
1756	102.9	104.4	120.0	102.0	114.2	112.4
1757	106.3	107.2	120.0	96.7	114.9	113.5
1758	100.0	102.0	119.8	97.7	113.0	116.9
1759	105.1	106.2	119.6	105.6	114.7	115.2
1760	89.5	93.4	119.2	101.3	110.0	111.2
1761	100.5	102.4	119.2	99.9	112.9	110.5
1762	106.6	107.4	119.5	111.3	115.3	114.4
1763	112.7	112.4	118.7	130.2	117.4	118.4
1764	107.8	108.4	120.2	122.6	116.7	117.6
1765	109.0	109.4	121.1	142.1	118.6	130.0
1766	104.6	105.8	120.9	140.8	117.2	131.0
1767	96.6	101.6	112.7	131.4	109.5	122.4
1768	102.0	108.4	117.6	145.7	115.3	118.8
1769	108.7	104.2	124.1	137.7	119.5	109.7
1770	112.7	92.8	117.6	133.7	113.9	112.5
1771	115.4	89.8	114.3	122.3	111.2	123.3
1772	112.7	91.2	111.1	125.7	109.1	131.6
1773	122.1	121.4	124.1	174.3	125.9	131.5
1774	116.7	111.0	125.8	176.0	124.7	121.3
1775	122.1	106.8	111.1	185.1	115.8	112.0
1776	163.7	95.4	104.5	196.0	116.6	109.3
1777	244.1	85.6	109.4	184.6	129.8	107.9
1778	237.4	94.1	104.5	177.1	126.5	114.1
1779	205.2	99.0	125.8	189.7	136.9	115.2
1780	201.2	92.8	107.8	197.1	124.0	111.7
1781	179.8	101.6	96.4	234.3	116.5	118.2
1782	191.8	114.6	86.6	225.1	113.5	130.7
1783	155.6	119.5	132.3	183.4	136.4	141.0
1784	146.2	119.5	145.4	187.4	143.7	143.6
1785	157.0	113.9	148.6	208.6	147.7	140.9
1786	127.4	110.0	163.3	173.1	150.4	143.9
1787	128.8	118.5	158.4	163.4	148.2	142.2
1788	152.9	127.6	169.9	165.7	160.8	137.6
1789	147.6	127.3	187.8	160.0	171.3	145.6
1790	152.9	124.7	176.4	153.1	164.0	153.8

Appendix 2.3. Commodity indices 1736-1816 (1750=100) continued.

	Tar	Tallow	Wood	Fishoil	Fuel & lighting	General
1791	138.2	128.6	176.4	140.6	161.7	141.6
1792	142.2	112.6	155.2	141.1	146.1	141.9
1793	148.9	100.3	169.9	136.6	154.6	153.2
1794	162.3	107.8	145.4	134.9	141.7	159.2
1795	198.5	117.5	122.5	160.0	135.0	171.0
1796	187.8	121.1	130.7	187.4	140.6	161.4
1797	169.0	134.8	173.1	199.4	168.1	149.8
1798	148.9	141.9	156.8	203.4	155.7	154.0
1799	167.7	141.9	137.2	210.9	146.2	180.2
1800	190.5	141.9	143.7	212.6	153.9	220.7
1801	277.1	188.3	196.0	282.3	211.3	250.6
1802	267.2	180.9	186.2	270.9	201.8	218.7
1803	264.1	178.6	202.5	267.4	211.4	235.6
1804	243.7	163.4	171.5	244.6	184.8	210.8
1805	227.3	151.2	209.1	226.3	204.0	243.4
1806	209.3	137.8	269.5	206.3	237.6	259.1
1807	208.3	137.0	243.4	205.1	220.2	252.0
1808	203.7	133.6	380.6	200.0	308.0	383.6
1809	336.9	232.8	708.8	348.6	563.6	645.7
1810	508.5	360.7	818.3	540.0	689.3	660.6
1811	623.8	446.6	1288.7	668.6	1031.6	1144.1
1812	900.4	652.7	1737.8	977.1	1411.4	2091.7
1813	2401.5	1771.2	8819.7	2651.4	6491.3	6995.7
1814	6715.9	4984.1	11857.6	7461.1	9835.5	9606.0
1815	9225.2	6857.0	10666.1	10264.9	9858.6	7613.4
1816	14486.6	10776.0	16463.5	16131.4	15297.2	12008.6

Appendix 2.4. Commodity indices 1816-1830 (1825=100).

	Barley	Oat	Rye	Wheat	Maslin	Rice	Grain	Barley flour	Oat flour	Oat meal
1816	209.5	153.0	282.8	327.4	151.7	129.2	193.2	234.5	131.0	153.0
1817	411.4	345.3	487.9	629.0	319.4	225.8	388.3	332.1	270.7	345.3
1818	248.6	227.5	269.6	338.7	202.1	141.5	237.8	265.7	170.7	227.5
1819	222.8	190.3	250.3	268.2	189.2	126.8	208.3	301.2	163.2	190.3
1820	168.8	176.3	213.3	223.8	151.4	112.5	174.1	171.7	137.2	176.3
1821	151.4	160.1	173.7	170.3	99.4	101.8	149.9	116.3	112.0	160.1
1822	175.7	184.1	218.8	203.8	168.6	118.7	180.8	164.7	147.7	184.1
1823	168.2	149.3	198.5	168.0	163.9	123.2	162.0	167.6	152.8	149.3
1824	119.6	122.9	136.2	119.4	105.3	119.6	121.0	111.9	109.4	122.9
1825	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1826	150.7	124.6	144.9	111.6	99.6	97.3	131.2	137.1	99.9	124.6
1827	193.6	170.8	180.2	127.6	173.5	101.8	174.4	179.9	145.4	170.8
1828	144.5	121.3	155.6	154.5	97.3	96.4	130.9	138.2	92.8	121.3
1829	163.9	127.2	172.2	204.4	119.5	103.5	146.5	135.6	97.3	127.2
1830	160.2	121.4	178.0	177.9	112.8	88.1	140.9	148.1	92.8	121.4

Appendix 2.4. Commodity indices 1816-1830 (1825=100) continued.

	Rye flour	Wheat flour	Flour & bread	Peas	White peas	Vege- tables	Butter	Milk	Dairy prod- ucts	Pork
1816	185.7	178.6	182.1	115.9	197.3	156.6	162.4	223.4	186.8	149.6
1817	357.0	339.8	328.2	215.2	366.4	290.8	185.5	264.4	217.1	184.8
1818	217.0	225.8	225.3	150.4	256.0	203.2	122.2	168.2	140.6	121.7
1819	205.1	219.6	224.1	128.6	212.8	170.7	112.5	154.9	129.5	112.1
1820	177.9	184.1	168.2	109.5	196.0	152.8	106.6	144.2	121.6	106.2
1821	147.4	159.4	134.7	81.0	173.2	127.1	111.4	121.7	115.5	111.0
1822	182.8	195.9	171.9	104.8	181.2	143.0	127.6	140.5	132.8	127.1
1823	192.8	204.4	169.7	119.1	188.9	154.0	104.2	105.2	104.6	103.8
1824	119.9	130.4	117.0	104.8	137.6	121.2	92.7	94.8	93.5	92.3
1825	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1826	118.5	122.8	122.0	95.2	145.3	120.3	92.9	99.0	95.3	68.9
1827	151.4	154.8	163.0	114.3	221.8	168.1	109.7	105.0	107.8	72.4
1828	147.1	135.6	127.2	95.2	166.4	130.8	106.0	90.5	99.8	82.2
1829	139.7	133.8	126.9	76.2	151.0	113.6	90.9	75.3	84.7	83.5
1830	147.9	135.6	130.4	80.8	178.9	129.9	106.6	70.2	92.0	86.9

Appendix 2.4. Commodity indices 1816-1830 (1825=100) continued.

	Meat	Cod, round	Cod, solit	Stock- fish	Clip- fish	Salt fish	Ling	Coal- fish	Pollock	Herring
1816	149.6	293.7	156.6	208.5	268.2	216.2	171.1	173.0	177.9	115.4
1817	184.8	387.7	198.0	269.8	473.6	342.2	283.7	273.6	260.7	273.0
1818	121.7	292.6	126.2	189.2	201.0	189.7	161.3	160.4	153.9	113.4
1819	112.1	267.8	129.2	181.7	216.2	191.5	154.7	154.1	148.0	148.2
1820	106.2	263.8	120.5	174.7	227.0	191.8	146.2	144.7	139.1	152.7
1821	111.0	255.3	128.6	176.6	308.1	224.8	145.0	141.5	136.2	103.7
1822	127.1	259.9	138.9	184.7	303.0	227.4	223.6	220.1	210.3	147.2
1823	103.8	223.4	129.4	165.0	253.4	196.8	159.7	159.7	153.4	96.3
1824	92.3	156.1	116.8	131.7	159.8	141.3	118.9	122.6	118.4	145.6
1825	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1826	68.9	144.1	104.5	119.5	155.7	132.9	109.1	112.3	108.6	100.0
1827	72.4	202.5	111.8	146.1	193.2	162.5	117.3	120.4	116.3	131.6
1828	82.2	153.4	94.1	116.6	171.3	137.3	127.0	127.0	122.5	130.6
1829	83.5	146.0	88.2	110.1	155.1	127.4	101.6	106.9	103.6	112.5
1830	86.9	121.8	83.2	97.8	176.4	128.8	91.2	110.1	106.5	132.3

Appendix 2.4. Commodity indices 1816-1830 (1825=100) continued.

	Fish oil	Roe	Fish	Raffin- ade	Sugar	Salt	Colonial goods	Food	Spirit	Malt
1816	247.6	469.5	222.8			138.8	132.1	179.7	124.6	206.3
1817	342.6	1410.6	390.2			186.1	177.1	300.1	236.8	392.3
1818	226.3	338.7	194.6			107.3	102.2	185.9	145.9	241.6
1819	226.1	315.9	194.5	138.9	138.8	105.1	128.7	175.9	143.7	238.0
1820	215.9	218.5	184.8	123.2	123.2	102.5	117.0	151.8	120.2	164.3
1821	186.5	117.2	179.0	111.4	111.4	129.2	116.8	136.9	92.1	135.3
1822	213.0	152.4	205.7	130.0	130.0	179.7	144.9	162.8	115.6	173.8
1823	133.0	160.9	167.0	134.9	134.9	141.8	137.0	146.4	126.5	167.4
1824	106.4	118.5	134.1	129.0	128.9	132.9	130.1	115.5	109.4	120.4
1825	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1826	108.5	98.3	119.2	98.6	98.6	93.3	97.0	110.0	95.3	134.8
1827	142.3	133.5	147.9	102.7	102.7	84.0	97.1	138.1	115.6	181.0
1828	159.6	96.1	131.4	110.3	110.3	90.1	104.3	117.2	96.8	140.7
1829	266.7	160.1	132.2	117.3	117.2	93.9	110.2	117.5	87.4	147.5
1830	219.5	170.0	129.1	117.9	121.0	99.5	113.6	119.9	93.7	144.3

Appendix 2.4. Commodity indices 1816-1830 (1825=100) continued.

	Beve- rages	Misc tob- acco	Tob- acco	Beve- rages & tob- acco	Hemp	Linnen	Sacking	Buck- skin	Goat- skin	Calf- skin
1816	165.4	196.0	196.0	177.7	144.4	152.9	142.7		158.7	
1817	314.6	365.0	365.0	334.7	158.8	185.2	172.3		210.3	
1818	193.7	241.0	241.0	212.6	103.9	118.9	187.7		148.8	
1819	190.8	166.9	166.9	181.3	126.8	136.0	200.0	135.5	137.4	249.3
1820	142.2	158.8	158.8	148.9	137.4	133.0	180.0	126.6	130.4	243.1
1821	113.7	157.3	157.3	131.2	138.7	130.9	188.9	113.2	112.2	200.9
1822	144.7	171.8	171.8	155.5	173.0	178.3	266.4	125.0	130.2	211.2
1823	147.0	143.8	143.8	145.7	157.6	163.5	150.9	112.5	120.2	166.3
1824	114.9	123.7	123.7	118.4	122.7	111.9	91.5	100.0	95.2	132.8
1825	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1826	115.1	111.3	111.3	113.6	109.0	94.4	103.6	78.1	82.6	95.8
1827	148.3	123.2	123.2	138.2	128.2	95.0	92.2	75.0	90.1	100.0
1828	118.8	104.8	104.8	113.2	135.1	97.2	95.9	75.0	90.1	100.0
1829	117.5	99.4	99.4	110.3	126.8	94.1	107.3	75.0	90.1	141.1
1830	119.0	96.3	96.3	110.0	129.4	92.8	105.3	78.1	90.1	149.3

Appendix 2.4. Commodity indices 1816-1830 (1825=100) continued.

	Cloathing & footwear	Tallow	Tar	Fish oil	Coal	Wood	Fuel & lighting	General
1816	173.5	141.8	188.0	247.6	139.0	282.4	213.4	182.0
1817	212.6	198.9	254.1	342.6	186.4	322.4	270.1	286.4
1818	159.4	129.0	165.6	226.3	107.5	154.9	154.9	180.7
1819	170.2	130.6	146.4	226.1	105.2	200.8	168.1	174.7
1820	163.7	128.5	200.5	215.9	102.7	139.8	152.5	153.5
1821	152.2	115.3	213.0	186.5	129.4	112.0	141.6	139.2
1822	186.5	127.3	207.9	213.0	179.4	159.1	171.2	166.7
1823	146.5	118.3	169.6	133.0	141.7	177.0	152.2	147.0
1824	109.3	109.1	121.1	106.4	132.7	170.9	135.7	116.8
1825	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1826	94.5	81.8	113.0	108.5	93.4	130.3	109.2	107.8
1827	96.7	81.8	146.6	142.3	84.4	107.0	109.8	129.0
1828	98.8	86.5	170.8	159.6	90.4	75.6	106.9	113.1
1829	107.6	136.5	176.8	266.7	94.1	77.0	134.9	117.3
1830	109.5	141.0	188.4	219.5	99.7	105.0	141.1	119.8

Appendix 2.5. Commodity indices 1830-1871 (1850=100).

	Rye	Wheat	Barley	Oat	Maslin	Rice	Grain	Rye flour	Oat flour	Barley flour
1830	133.2	125.8	217.6	168.4	127.2	164.5	167.0	122.8	114.9	122.2
1831	168.1	143.5	280.9	229.0	159.0	201.4	213.6	140.4	132.6	150.9
1832	168.2	152.4	154.8	138.6	156.3	166.7	154.7	152.0	141.4	110.0
1833	133.1	122.9	111.7	107.2	121.5	114.3	116.9	133.7	119.7	90.0
1834	117.2	98.3	92.9	90.2	99.8	99.8	98.3	113.9	94.2	80.0
1835	116.9	94.7	103.8	100.7	98.8	125.0	105.6	112.0	103.2	99.3
1836	114.2	90.8	115.1	113.7	108.3	124.0	112.1	99.0	115.0	110.6
1837	114.2	99.8	117.2	125.5	123.4	129.4	118.8	107.8	132.0	120.0
1838	131.8	118.2	133.1	139.9	133.8	136.1	133.2	119.3	139.0	133.7
1839	131.4	144.0	135.6	137.9	135.4	147.7	137.5	121.8	140.2	134.9
1840	119.3	137.4	121.3	129.4	120.2	149.2	126.8	109.6	112.9	110.0
1841	114.5	110.7	100.0	96.1	98.8	114.3	103.7	95.2	84.6	85.0
1842	119.3	120.1	104.6	92.2	95.4	118.7	105.9	111.1	87.0	87.0
1843	117.9	101.1	107.1	97.4	98.8	109.3	105.1	102.2	100.0	96.2
1844	104.1	95.1	111.3	100.0	104.0	116.1	105.7	85.8	97.8	94.1
1845	111.5	91.5	104.6	90.2	97.2	118.1	101.7	86.3	86.8	83.5
1846	150.0	125.9	126.8	111.8	111.6	132.4	125.5	121.6	105.3	101.2
1847	175.0	155.8	172.8	158.2	150.7	182.4	166.2	163.7	139.4	134.1
1848	117.6	112.6	124.7	116.3	121.1	129.0	120.6	109.9	107.2	109.6
1849	98.0	104.3	107.1	98.7	104.1	112.7	103.9	101.8	106.7	107.1
1850	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1851	112.2	103.4	105.4	115.7	106.7	100.0	107.9	93.6	113.8	120.0
1852	132.8	105.3	125.9	119.0	113.7	95.0	118.6	98.2	119.5	125.0
1853	146.3	122.4	138.9	126.8	117.8	95.0	128.4	133.3	109.5	97.4
1854	168.9	150.2	149.8	143.8	127.6	105.0	143.7	126.3	109.1	123.0
1855	174.7	156.0	159.4	150.3	127.8	113.3	150.2	133.3	143.9	152.5
1856	189.2	168.6	184.9	166.0	151.5	121.7	168.8	142.7	162.0	147.4
1857	148.6	143.4	165.7	149.0	148.7	101.7	148.6	117.0	107.3	132.5
1858	126.4	117.1	139.3	130.1	129.8	110.0	128.9	99.4	112.2	102.0
1859	122.6	111.3	133.9	137.9	125.9	111.7	127.3	102.3	118.8	102.2
1860	136.1	128.6	151.9	158.8	134.5	111.7	141.9	122.8	130.0	97.4
1861	148.0	140.6	160.7	160.1	140.7	108.3	148.4	135.3	140.9	132.8
1862	156.4	140.4	149.0	141.8	138.3	106.7	142.0	141.8	130.6	131.0
1863	139.5	118.8	133.1	130.7	127.8	86.7	126.7	126.7	101.3	113.0
1864	124.3	108.5	127.6	126.8	121.0	81.7	119.4	107.1	100.1	108.0
1865	119.9	102.8	162.8	122.9	114.3	75.0	126.3	112.6	95.9	100.2
1866	137.5	116.7	149.0	142.5	124.6	80.0	132.2	126.6	116.8	120.1
1867	167.2	144.0	166.9	145.8	135.0	78.3	146.8	164.6	123.4	132.5
1868	195.9	154.5	189.5	171.9	150.3	78.3	166.4	178.6	161.3	127.4
1869	155.1	129.5	172.8	160.1	145.9	78.3	149.8	142.9	155.2	118.0
1870	136.1	115.2	141.4	136.6	133.6	75.0	129.2	128.8	117.9	94.0
1871	135.1	120.3	140.2	135.9	128.0	76.7	128.4	128.7	134.0	97.4

Appendix 2.5. Commodity indices 1830-1871 (1850=100) continued.

	Wheat flour	Oat- meal	Flour & bread	Potat- oes	Peas	White peas	Vege- tables	Butter	Cream	Cheese
1830	134.4	157.9	130.4	84.0	116.9	107.1	92.4	110.5	90.9	143.5
1831	156.3	201.4	156.3	90.3	133.0	132.3	103.0	120.2	97.0	154.1
1832	153.1	166.7	144.6	89.1	145.5	124.7	102.9	110.5	90.9	147.3
1833	134.4	114.3	118.4	79.8	126.2	113.4	91.8	102.6	87.9	146.5
1834	115.6	99.8	100.7	66.4	119.0	102.9	79.8	92.1	83.3	148.1
1835	112.5	125.0	110.4	79.8	110.5	100.2	87.5	116.7	97.0	131.6
1836	100.0	124.0	109.7	84.9	110.5	104.9	91.7	121.9	100.0	142.7
1837	109.4	129.4	119.7	89.1	112.4	110.7	95.8	115.8	95.5	144.3
1838	118.8	136.1	129.4	95.0	115.2	117.0	101.3	101.8	87.9	201.6
1839	118.8	147.7	132.7	74.8	115.7	126.4	88.7	124.6	103.0	108.1
1840	109.4	149.2	118.2	74.8	114.3	113.2	86.5	122.8	98.5	100.0
1841	90.6	114.3	93.9	72.3	105.5	102.7	81.8	98.2	89.4	80.8
1842	109.4	118.7	102.6	79.0	106.9	102.4	86.7	89.9	83.3	71.4
1843	93.8	109.3	100.3	79.0	98.3	98.4	84.8	103.5	97.0	71.1
1844	81.3	116.1	95.0	69.7	94.5	97.5	77.6	101.8	93.9	98.9
1845	84.4	118.1	91.8	73.9	100.0	100.6	81.8	107.9	98.5	91.9
1846	118.8	132.4	115.9	89.1	119.3	114.3	97.4	109.2	98.5	87.6
1847	159.4	182.4	155.8	116.0	150.7	144.3	125.4	122.8	104.5	104.9
1848	115.6	129.0	114.3	92.4	116.3	117.6	99.8	114.0	103.0	103.5
1849	106.3	112.7	106.9	88.2	107.2	99.3	92.7	109.6	101.5	101.6
1850	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1851	109.4	100.5	107.5	88.2	95.6	102.2	91.4	111.4	101.5	104.1
1852	118.8	123.4	117.0	106.7	111.6	113.7	108.5	114.0	101.5	104.9
1853	139.1	136.6	123.2	100.8	122.9	113.8	106.1	116.7	103.0	104.9
1854	165.6	148.2	134.4	85.7	149.3	131.4	102.1	129.8	104.5	104.9
1855	190.6	157.7	155.6	121.8	146.0	140.7	128.3	133.8	103.0	83.5
1856	212.5	177.3	168.4	133.6	165.0	157.9	142.0	153.5	106.1	89.2
1857	159.4	162.9	135.8	125.2	152.9	146.0	132.5	159.6	104.5	83.8
1858	106.3	144.1	112.8	105.9	149.6	134.3	116.7	138.6	86.4	83.5
1859	109.4	124.5	111.4	105.0	141.3	134.0	114.8	149.1	87.9	86.8
1860	121.9	143.7	123.2	120.2	144.1	136.7	126.3	143.0	92.4	88.9
1861	137.5	166.6	142.6	138.7	154.3	148.9	142.6	138.2	110.6	96.8
1862	143.8	141.9	137.8	120.2	148.2	139.8	127.3	128.1	104.5	113.0
1863	137.5	121.9	120.1	115.1	138.8	135.7	121.7	122.4	101.5	107.0
1864	103.1	122.5	108.2	110.9	131.7	129.2	116.8	132.9	103.0	98.9
1865	96.9	123.6	105.8	105.9	132.2	122.5	112.3	133.8	103.0	108.9
1866	118.8	145.5	125.6	116.8	141.9	135.2	123.3	143.9	104.5	119.2
1867	118.8	161.5	140.2	137.0	155.4	147.4	141.3	135.5	101.5	145.7
1868	156.3	182.9	161.3	158.0	174.4	164.2	161.4	138.2	101.5	134.1
1869	115.6	141.5	134.6	121.8	157.6	156.0	132.3	139.0	101.5	142.7
1870	106.3	135.0	116.4	116.8	144.1	140.8	124.5	139.5	98.5	146.8
1871	121.9	136.1	123.6	100.0	134.7	140.3	111.3	137.7	92.4	129.7

Appendix 2.5. Commodity indices 1830-1871 (1850=100) continued.

	Milk	Eggs	Dairy products	Grouse	Beef	Veal	Mutton	Lamb	Pork	Game & poultry
1830	92.3	92.3	109.5	78.3	105.9	116.3	88.4	91.5	101.9	108.3
1831	100.0	95.4	117.6	91.7	111.8	122.0	97.7	100.6	113.0	111.1
1832	92.3	91.5	110.3	88.3	114.7	123.4	102.3	104.2	109.3	102.7
1833	92.3	91.5	107.8	85.0	108.8	120.6	93.0	95.7	103.7	92.0
1834	84.6	90.8	103.0	133.3	105.9	119.1	90.7	93.2	100.0	108.3
1835	100.0	94.6	111.0	80.0	97.1	100.7	88.4	90.1	96.3	102.8
1836	100.0	94.6	115.4	70.0	150.0	107.8	120.9	123.2	114.8	99.5
1837	100.0	94.6	113.8	83.3	141.2	107.1	100.0	105.1	109.3	92.5
1838	92.3	93.8	121.7	85.0	120.6	90.1	81.4	87.2	100.0	89.4
1839	107.7	97.7	110.2	58.3	147.1	110.6	114.0	117.4	114.8	83.2
1840	100.0	96.9	105.1	58.3	141.2	117.0	111.6	114.5	111.1	73.6
1841	92.3	96.2	91.1	63.3	105.9	97.2	86.0	88.7	92.6	82.9
1842	84.6	95.4	83.9	65.0	85.3	92.2	74.4	76.4	83.3	76.7
1843	100.0	98.5	93.1	46.7	83.8	84.4	67.4	70.3	79.6	59.4
1844	92.3	97.7	97.2	66.7	100.0	86.5	74.4	78.2	87.0	67.7
1845	100.0	100.0	99.8	95.0	102.9	95.7	100.0	100.3	100.0	88.9
1846	100.0	100.0	99.0	91.7	100.0	85.8	81.4	84.0	88.9	91.2
1847	115.4	101.5	111.5	108.3	111.8	96.5	102.3	103.4	103.7	101.6
1848	107.7	100.8	106.8	91.7	129.4	96.5	114.0	115.6	114.8	84.5
1849	107.7	100.8	105.0	105.0	105.9	93.6	90.7	93.5	103.7	102.3
1850	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1851	107.7	100.8	106.1	70.0	105.9	92.2	95.3	97.4	105.6	80.1
1852	107.7	100.8	106.9	105.0	117.6	133.3	104.7	107.4	118.5	79.8
1853	107.7	100.8	107.8	65.0	120.6	93.6	97.7	103.6	133.3	66.9
1854	115.4	103.1	113.5	88.3	147.1	101.4	127.9	131.3	142.6	76.7
1855	115.4	102.3	108.8	59.2	152.9	106.4	127.9	131.7	140.7	71.3
1856	123.1	103.1	117.6	91.7	161.8	114.2	144.2	146.2	146.3	86.8
1857	130.8	103.8	119.6	106.7	170.6	107.8	158.1	159.1	155.6	104.1
1858	115.4	102.3	108.0	115.0	158.8	111.3	144.2	144.8	135.2	107.0
1859	123.1	93.8	112.5	101.7	155.9	112.1	132.6	135.0	133.3	102.3
1860	123.1	90.8	111.6	83.3	150.0	102.8	93.0	102.2	127.8	97.9
1861	115.4	90.0	112.6	100.0	157.4	117.7	89.5	102.9	155.6	131.0
1862	107.7	80.8	110.2	79.2	158.8	127.0	110.5	119.8	155.6	107.5
1863	100.0	87.7	105.9	70.8	161.8	83.7	125.6	129.1	124.1	102.3
1864	107.7	78.5	107.4	83.3	145.6	128.4	118.6	121.5	120.4	115.8
1865	107.7	83.8	110.9	75.8	132.4	80.9	111.6	113.8	113.0	108.5
1866	115.4	70.0	116.3	75.8	154.4	92.2	120.9	126.2	140.7	120.2
1867	107.7	77.7	119.5	93.3	157.4	90.8	117.4	123.7	140.7	126.9
1868	107.7	76.9	117.2	109.2	167.6	103.5	134.9	139.7	150.0	124.8
1869	107.7	79.2	119.8	84.2	164.7	102.8	140.7	144.8	157.4	102.6
1870	115.4	73.8	121.8	100.0	161.8	104.3	130.2	136.1	157.4	114.7
1871	107.7	79.2	115.2	92.5	157.4	102.1	133.7	137.1	144.4	99.2

Appendix 2.5. Commodity indices 1830-1871 (1850=100) continued.

	Goat	Meat	Herring	Stock- fish	Stock- fish round	Stock- fish. split	Stock- fish. pollock	Clipfish	Cod	Coal- fish
1830	94.6	99.5	105.0	86.2	100.0	99.0	64.3	153.8	98.8	72.3
1831	103.6	107.7	110.8	85.5	114.5	101.2	58.5	202.8	122.7	54.7
1832	106.2	108.4	102.6	86.1	128.6	109.7	61.2	194.2	126.4	59.7
1833	98.3	101.6	109.3	97.7	128.2	112.1	56.1	197.8	125.6	54.4
1834	95.6	102.8	107.9	107.0	115.2	124.9	70.3	166.8	123.1	73.8
1835	91.7	94.2	100.9	92.7	106.3	126.1	85.8	149.2	119.9	83.5
1836	125.5	121.5	104.4	92.9	85.5	108.9	95.6	162.9	93.1	96.2
1837	110.1	111.7	95.6	85.7	64.2	97.1	86.3	134.4	59.0	88.5
1838	93.0	97.0	102.6	90.9	107.4	92.5	104.2	152.1	102.5	102.8
1839	120.8	117.2	105.8	87.2	133.8	93.0	104.9	168.5	129.4	97.1
1840	117.4	114.1	107.0	104.2	151.5	116.7	93.3	230.3	149.3	80.4
1841	91.3	92.2	104.1	98.4	130.4	114.0	76.5	168.8	144.7	71.4
1842	78.4	80.6	110.5	92.3	121.7	102.2	75.4	158.9	118.4	79.3
1843	73.1	74.3	106.1	100.0	139.6	97.6	72.5	167.3	129.1	76.6
1844	82.0	84.0	92.4	110.6	130.4	108.5	78.5	170.9	119.2	76.6
1845	100.6	99.3	89.8	121.2	132.2	118.8	72.7	165.5	148.5	66.7
1846	86.6	89.4	111.4	96.5	96.6	100.7	76.3	132.7	96.8	73.3
1847	104.5	104.7	106.1	89.1	88.1	97.6	86.9	149.1	77.3	79.9
1848	117.2	113.1	111.1	100.0	94.0	106.8	99.3	141.8	74.1	96.7
1849	96.3	99.2	105.8	110.6	128.4	110.9	122.0	149.8	106.4	120.1
1850	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1851	99.5	97.6	91.5	91.6	87.2	85.5	86.3	87.3	72.7	78.1
1852	110.0	112.1	95.9	86.2	83.7	82.9	86.3	105.5	81.1	66.1
1853	109.4	107.1	107.6	82.5	78.5	89.1	81.2	96.7	62.2	48.0
1854	134.7	127.8	116.3	86.2	108.1	110.4	89.8	93.5	81.1	63.1
1855	135.5	127.5	118.1	107.6	101.6	125.6	118.4	146.0	64.8	48.0
1856	148.1	139.4	123.0	118.6	103.1	119.8	140.1	129.8	90.7	69.1
1857	160.1	149.3	136.7	129.3	123.0	110.9	148.8	129.8	116.9	90.1
1858	145.3	138.5	118.1	120.3	123.7	93.2	99.1	162.2	124.6	96.1
1859	137.4	132.9	119.2	94.1	138.7	98.8	95.1	151.3	121.5	93.7
1860	111.4	115.8	115.5	106.1	142.7	116.2	92.7	210.9	134.5	108.1
1861	116.3	127.4	121.3	130.4	147.9	139.4	121.5	162.2	130.3	102.1
1862	129.2	132.5	108.5	138.4	150.8	145.2	139.2	170.9	141.2	114.1
1863	132.5	125.8	107.9	157.0	167.3	137.0	145.9	177.5	155.5	123.1
1864	124.4	124.8	114.9	157.7	173.2	117.6	115.1	186.2	155.6	122.5
1865	116.0	112.1	115.5	133.4	174.9	117.1	104.7	157.8	158.6	126.1
1866	131.6	128.5	123.9	119.6	130.0	143.7	110.2	129.8	120.8	91.9
1867	130.1	129.4	128.3	128.6	114.5	168.1	112.6	129.8	119.7	90.1
1868	144.5	141.3	122.4	120.3	119.0	153.1	111.8	113.5	112.4	84.1
1869	148.8	141.1	112.8	123.9	174.0	127.1	99.3	174.5	165.0	132.1
1870	142.0	139.0	110.5	133.9	171.4	127.1	104.2	194.5	160.9	126.1
1871	140.6	134.4	122.7	178.1	176.7	142.3	124.8	189.1	162.2	132.1

Appendix 2.5. Commodity indices 1830-1871 (1850=100) continued.

	Fish oil, light	Fish oil, dark	Roe	Others	Fish	Raffi- nade	Sugar	Lump sugar	Syrup	Cofee
1830	127.1	129.8	109.1	104.1	103.1	176.3	176.6	170.5	116.6	123.8
1831	142.6	146.9	159.5	118.2	118.0	163.9	164.2	165.9	144.7	149.9
1832	136.2	139.8	181.5	120.6	119.7	158.8	159.0	166.6	165.4	184.5
1833	106.4	107.0	74.9	106.3	116.3	148.5	148.7	156.9	131.2	178.7
1834	82.7	81.0	81.5	103.1	113.9	135.1	135.3	140.7	119.7	155.5
1835	87.0	85.7	59.0	99.6	109.3	132.0	132.2	135.2	115.5	144.1
1836	107.5	108.3	52.6	100.7	105.4	145.4	145.6	158.9	123.4	138.0
1837	106.6	107.3	54.0	89.0	87.6	142.3	142.5	149.7	116.6	125.5
1838	110.7	111.8	108.8	107.8	109.2	126.8	127.0	133.0	106.8	114.5
1839	96.5	96.2	82.1	108.6	117.8	121.6	121.9	127.5	127.6	119.2
1840	87.4	86.1	140.2	122.4	135.9	117.5	117.7	125.9	118.9	114.0
1841	76.8	74.5	97.5	105.2	118.6	109.3	109.5	112.8	107.8	94.4
1842	80.6	78.7	85.7	100.3	110.0	96.9	97.1	101.9	106.8	84.5
1843	92.2	91.4	107.4	107.3	115.9	94.8	95.0	95.0	98.7	75.9
1844	98.8	98.7	103.0	108.0	114.7	95.9	96.0	97.2	96.6	75.7
1845	96.1	95.7	123.1	111.9	121.3	110.3	110.5	114.9	160.4	77.2
1846	78.5	76.4	103.0	94.7	99.5	106.2	106.4	110.3	107.6	77.7
1847	74.6	72.1	60.1	89.2	95.2	108.2	108.4	108.7	125.4	80.7
1848	68.4	65.2	70.0	93.4	98.9	106.2	106.4	107.3	130.0	80.7
1849	79.5	77.5	89.0	109.1	116.3	103.1	103.3	102.6	112.1	90.9
1850	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1851	104.3	104.7	94.8	89.5	84.8	99.0	100.0	101.7	94.0	89.4
1852	104.0	104.4	71.9	88.0	86.8	96.9	90.2	103.6	92.7	85.6
1853	102.6	102.9	74.4	84.1	80.0	102.1	103.3	114.0	98.7	92.6
1854	101.7	101.9	159.0	101.0	94.1	108.2	106.6	117.4	100.6	96.9
1855	116.6	118.3	89.8	105.0	100.5	113.4	123.0	122.2	107.1	101.3
1856	126.0	128.6	95.3	113.1	109.5	127.8	150.8	134.1	110.4	97.0
1857	134.1	137.5	206.9	133.1	125.6	143.3	175.4	141.1	116.7	107.3
1858	101.2	101.3	152.1	117.4	121.6	129.9	149.2	132.5	107.6	118.2
1859	94.4	93.8	154.0	114.1	117.6	120.6	144.3	128.5	105.6	125.1
1860	95.4	94.9	154.5	124.7	133.6	122.7	144.3	126.6	104.8	130.2
1861	93.3	92.6	182.9	129.4	133.0	121.6	150.8	124.3	106.5	142.3
1862	108.1	108.9	225.1	140.9	141.5	124.7	150.8	124.4	99.6	157.0
1863	132.2	135.4	204.1	149.4	150.1	120.6	142.6	122.9	88.8	155.9
1864	136.1	139.7	20.4	130.8	143.0	118.6	147.5	135.9	87.3	148.1
1865	114.4	115.8	238.3	141.5	142.8	118.6	139.3	136.4	91.6	144.8
1866	101.4	101.5	272.2	131.4	125.4	112.4	139.3	131.2	102.2	133.4
1867	104.6	105.1	289.5	135.5	127.9	111.3	136.1	125.8	97.8	124.1
1868	102.5	102.8	210.2	122.9	118.1	110.3	137.7	125.7	99.8	124.1
1869	96.5	96.2	281.8	143.9	147.0	114.4	144.3	130.1	101.1	123.8
1870	89.7	88.7	221.5	138.9	147.2	118.6	150.8	136.2	100.2	130.6
1871	99.8	99.8	202.8	148.2	156.1	123.7	149.2	141.2	99.7	156.5

Appendix 2.5. Commodity indices 1830-1871 (1850=100) continued.

	Coffee, groun- ded	Salt	Vine- gar & olive oil	Colon- ial goods	Food	Spirits	Malt	Hum- ulus	Beer	Beve- rages
1830	128.2	150.4	125.1	151.2	120.7	100.0	118.6	112.4	103.0	104.6
1831	170.9	161.6	137.7	160.0	138.5	126.7	148.8	142.6	133.3	133.4
1832	190.9	165.1	132.8	167.6	128.5	120.0	139.6	134.7	127.3	126.5
1833	185.5	162.7	125.7	158.4	114.4	100.0	105.9	101.1	93.9	98.7
1834	147.3	146.8	113.1	139.5	104.3	86.7	88.6	83.5	75.8	82.8
1835	146.4	134.1	113.1	134.3	107.2	80.0	98.8	93.2	84.8	85.3
1836	138.2	134.1	125.7	140.2	113.0	80.0	106.7	102.8	97.0	91.5
1837	124.5	138.9	125.1	134.6	111.6	120.0	100.2	96.5	90.9	105.1
1838	112.7	138.1	110.9	122.5	117.3	93.3	119.9	111.9	100.0	100.8
1839	116.4	138.9	108.7	122.5	119.0	86.7	132.5	126.8	118.2	107.4
1840	110.9	119.8	104.9	116.1	115.1	73.3	118.6	113.6	106.1	94.4
1841	100.9	112.7	102.7	106.0	97.6	66.7	109.5	104.5	97.0	86.3
1842	81.8	105.6	91.1	94.4	94.9	66.7	99.0	94.6	87.9	80.9
1843	76.4	101.6	89.2	90.0	95.4	73.3	106.2	101.3	93.9	87.4
1844	74.5	99.2	90.1	89.8	95.6	60.0	104.9	100.5	93.9	81.4
1845	76.4	96.8	103.7	101.6	99.6	66.7	104.2	100.1	93.9	84.2
1846	76.4	111.1	99.8	98.0	104.2	80.0	137.7	129.9	118.2	105.5
1847	80.0	112.7	101.8	101.1	124.6	93.3	168.2	156.7	139.4	125.0
1848	80.0	109.5	99.8	100.0	108.4	86.7	126.6	122.0	115.2	105.1
1849	86.4	100.0	96.9	98.6	104.1	93.3	106.1	106.1	106.1	100.6
1850	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1851	99.1	97.6	100.0	97.5	100.0	100.0	107.2	106.8	106.1	103.7
1852	89.1	95.2	100.0	92.8	107.2	100.0	126.3	121.9	115.2	110.7
1853	101.8	105.6	100.0	101.7	108.7	100.0	135.9	131.2	124.2	116.0
1854	110.9	113.5	100.0	106.8	118.9	100.0	159.0	147.5	130.3	122.6
1855	110.9	99.2	98.4	110.7	127.3	120.0	164.6	159.4	151.5	140.4
1856	108.2	100.8	96.2	119.0	139.0	133.3	180.2	172.4	160.6	152.5
1857	117.3	100.0	96.7	130.7	134.0	140.0	172.0	182.0	197.0	167.9
1858	117.3	97.6	97.3	123.1	120.2	133.3	179.1	188.7	203.0	168.7
1859	122.7	88.1	91.8	120.3	118.7	133.3	173.2	185.1	203.0	167.6
1860	141.8	89.7	88.0	124.1	124.2	133.3	194.5	199.1	206.1	172.7
1861	127.3	93.7	85.2	125.1	132.6	146.7	223.4	232.2	245.5	199.1
1862	139.1	92.9	90.2	129.5	131.0	133.3	223.4	225.0	227.3	186.3
1863	154.5	89.7	94.5	128.3	124.2	133.3	225.3	221.3	215.2	182.0
1864	152.7	90.5	99.5	128.6	119.5	126.7	234.9	230.6	224.2	184.4
1865	145.5	88.9	95.6	125.2	117.9	126.7	247.6	243.1	236.4	191.5
1866	141.8	86.5	97.3	121.8	124.4	127.7	247.6	244.1	236.4	192.0
1867	131.8	88.9	101.1	118.0	131.9	126.7	250.7	246.2	239.4	193.2
1868	121.8	91.3	102.7	117.1	140.7	140.0	282.5	277.4	269.7	216.5
1869	121.8	88.1	104.9	119.3	134.7	133.3	285.6	280.4	272.7	215.4
1870	120.0	86.5	101.1	122.1	127.9	126.7	215.8	211.9	206.1	173.9
1871	124.5	86.5	101.1	127.6	127.7	133.3	228.5	224.4	218.2	183.7

Appendix 2.5. Commodity indices 1830-1871 (1850=100) continued.

	Tob- acco mats	Snuff tob- acco	Tob- acco	Bever- ages & tobacco	Cotton	Wool	Wool- en goods	Linn- en	Hemp	Sack- ing
1830	108.3	107.5	108.0	105.6	139.8	124.5	108.9	155.0	143.7	110.0
1831	108.3	107.5	108.0	125.8	145.7	129.6	113.4	161.7	152.2	117.7
1832	108.3	107.5	108.0	120.9	139.2	123.6	108.2	154.8	147.3	127.0
1833	107.5	106.8	107.3	101.3	129.9	120.3	105.3	139.4	131.3	113.7
1834	132.5	129.3	131.4	97.4	127.0	122.3	107.0	131.6	122.5	107.6
1835	120.0	118.0	119.3	95.5	130.3	119.1	104.2	141.4	117.9	120.6
1836	127.5	124.8	126.6	102.0	128.7	117.2	102.6	140.1	112.3	117.5
1837	117.5	115.8	116.9	108.6	129.6	126.9	98.9	132.3	113.1	102.1
1838	125.0	122.5	124.2	107.8	124.5	129.6	104.7	119.4	105.5	93.2
1839	125.0	122.5	124.2	112.4	123.4	126.2	116.3	120.6	113.5	102.3
1840	100.0	100.0	100.0	96.1	128.2	132.1	122.9	124.2	119.4	106.1
1841	92.5	93.3	92.8	88.3	101.3	86.0	127.1	116.5	115.9	101.8
1842	82.5	84.3	83.1	81.5	98.8	88.7	104.7	108.9	111.2	99.2
1843	82.5	84.3	83.1	86.1	104.3	102.3	98.9	106.3	106.9	95.9
1844	82.5	84.3	83.1	81.9	101.2	105.8	98.9	96.6	95.4	92.2
1845	92.5	93.3	92.8	86.7	99.1	102.3	101.8	95.8	96.8	96.3
1846	92.5	93.3	92.8	101.6	105.5	110.9	98.9	100.1	99.9	98.4
1847	92.5	93.3	92.8	115.3	106.6	105.0	96.4	108.1	99.5	114.1
1848	105.0	104.5	104.8	105.0	105.0	101.7	91.1	108.2	105.8	109.9
1849	100.0	100.0	100.0	100.4	103.0	103.2	106.2	102.7	110.4	103.8
1850	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1851	130.0	127.0	129.0	111.3	97.7	107.7	108.8	97.4	99.5	100.3
1852	100.0	100.0	100.0	107.5	89.5	98.3	97.4	108.8	98.7	98.6
1853	100.0	100.0	100.0	111.2	79.1	102.3	105.5	106.5	99.0	97.2
1854	105.0	104.5	104.8	117.3	95.3	114.5	107.2	120.6	126.5	105.6
1855	112.5	111.3	112.1	131.9	83.7	118.4	117.5	133.6	151.4	119.6
1856	120.0	118.0	119.3	142.6	83.7	117.2	111.8	130.1	128.4	109.5
1857	175.0	167.5	172.5	169.3	81.9	125.4	108.2	122.2	120.3	103.2
1858	175.0	167.5	172.5	169.8	65.5	120.7	96.3	117.2	111.3	100.3
1859	182.5	174.3	179.8	171.2	65.1	119.0	103.0	116.8	103.8	104.2
1860	182.5	174.3	179.8	174.8	81.4	123.0	107.1	124.4	106.2	108.6
1861	175.0	167.5	172.5	191.1	65.1	124.2	104.3	125.1	107.5	109.0
1862	187.5	178.8	184.6	185.8	93.0	124.8	115.3	115.4	107.1	111.6
1863	192.5	183.3	189.4	184.2	102.4	127.9	127.8	127.5	116.4	121.6
1864	187.5	178.8	184.6	184.5	111.6	139.5	130.9	136.6	116.2	132.9
1865	175.0	167.5	172.5	185.8	97.7	131.1	138.2	131.3	115.5	136.3
1866	175.0	169.0	173.0	186.3	100.8	144.3	130.1	133.8	112.4	132.2
1867	147.5	143.8	146.3	179.1	98.6	138.7	121.8	131.1	115.2	121.9
1868	142.5	140.3	141.8	194.1	88.2	139.0	114.6	130.3	117.7	121.3
1869	130.0	130.0	130.0	189.7	76.9	130.4	102.2	127.5	118.5	117.8
1870	145.0	144.5	144.8	165.2	75.4	126.9	100.6	127.6	121.6	120.6
1871	152.5	152.3	152.4	174.3	76.7	128.8	99.2	124.4	104.9	128.2

Appendix 2.5. Commodity indices 1830-1871 (1850=100) continued.

	Buck- skin	Goat- skin	Calf- skin	Cloth- ing & foot- wear	Pine- wood	White- wood	Birch- wood	Wood, misc	Tallow	Tar
1830	83.3	121.1	66.9	120.1	92.7	101.4	101.8	57.4	142.7	155.6
1831	83.3	110.4	70.8	123.9	100.0	106.5	120.0	60.6	157.3	126.8
1832	83.3	125.0	73.8	122.9	98.8	105.1	120.0	58.5	161.5	120.3
1833	91.7	125.0	72.8	116.9	92.7	101.4	115.0	57.6	155.2	115.3
1834	100.0	128.6	70.8	115.7	90.2	95.2	113.1	57.7	149.0	112.1
1835	100.0	128.6	60.0	116.2	86.8	90.1	119.3	49.0	124.0	110.7
1836	100.0	125.0	59.0	114.0	98.8	102.3	121.3	59.1	122.9	119.2
1837	100.0	126.5	61.0	114.7	113.5	122.9	134.4	63.1	115.6	124.3
1838	100.0	115.8	60.7	110.5	97.0	114.2	124.9	64.0	110.4	118.8
1839	100.0	114.3	70.2	112.1	95.4	95.2	114.6	60.3	132.3	121.5
1840	108.3	114.3	78.7	117.3	94.8	97.4	106.0	59.1	130.2	120.3
1841	108.3	114.3	78.7	100.2	78.9	91.2	99.2	50.5	115.6	122.6
1842	75.0	89.3	66.9	92.0	89.3	86.8	106.6	63.9	101.6	113.4
1843	83.3	100.0	80.7	98.5	77.4	85.2	89.6	109.0	89.1	110.3
1844	83.3	100.0	84.3	96.8	87.0	103.8	100.5	109.2	84.4	107.1
1845	83.3	110.7	89.8	97.7	98.8	124.6	108.9	104.6	99.0	106.1
1846	91.7	113.4	98.0	103.7	98.2	118.8	107.5	103.5	108.3	109.8
1847	91.7	125.0	98.4	105.9	121.7	131.2	126.7	114.1	115.6	108.6
1848	102.5	121.4	108.2	106.8	99.4	126.5	106.6	114.5	126.0	106.9
1849	107.5	119.6	108.2	106.5	106.7	99.3	108.3	110.6	109.4	103.3
1850	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1851	100.0	114.3	109.2	103.6	102.4	102.9	108.0	100.6	87.5	100.6
1852	100.0	89.3	98.4	97.4	111.3	112.3	118.2	95.1	101.0	101.3
1853	108.3	107.1	119.0	101.1	120.1	121.6	128.5	93.1	102.1	108.0
1854	108.3	121.4	129.8	114.1	134.6	143.3	140.7	142.1	126.0	132.8
1855	108.3	100.0	149.5	118.4	128.5	139.7	128.7	134.0	127.1	164.6
1856	108.3	107.1	154.1	115.6	152.3	157.5	148.7	134.6	122.9	152.9
1857	116.7	142.9	130.5	117.2	148.5	153.5	152.8	126.5	125.0	141.4
1858	91.7	107.1	102.3	103.0	130.6	128.4	125.5	119.1	106.3	129.5
1859	91.7	107.1	118.0	103.7	123.3	125.8	125.5	105.7	120.8	132.6
1860	100.0	133.9	152.5	115.5	119.6	149.9	132.6	122.2	119.8	134.1
1861	102.5	133.9	157.4	114.4	114.3	144.5	125.1	117.5	115.1	147.7
1862	105.0	134.8	159.3	118.5	107.6	112.8	117.8	122.1	108.3	154.4
1863	112.5	138.4	167.2	125.7	112.4	107.7	128.2	115.5	103.6	161.9
1864	125.0	143.8	172.1	134.3	111.5	105.7	128.2	109.0	84.9	128.2
1865	115.0	140.2	167.2	128.0	106.3	107.7	124.5	106.1	84.4	115.1
1866	130.0	146.4	174.3	134.1	118.8	127.4	129.7	110.6	100.0	110.3
1867	125.0	142.9	168.0	129.9	140.5	121.2	146.3	106.0	98.4	105.0
1868	125.0	144.6	173.2	129.2	117.7	120.1	140.7	110.0	78.6	103.6
1869	115.0	139.3	171.4	123.1	112.6	117.2	119.3	104.1	80.7	116.1
1870	112.5	138.4	170.4	122.2	109.9	111.3	117.7	101.5	83.3	121.1
1871	112.5	133.0	167.2	120.7	118.8	127.4	129.3	98.6	77.6	119.5

Appendix 2.5. Commodity indices 1830-1871 (1850=100) continued.

	Fish oil	Veg oil	Coal	Fuel & lighting	General
1830	127.1	150.0	195.9	122.7	119.9
1831	142.6	156.3	215.5	131.4	134.1
1832	136.2	148.8	238.8	132.4	127.3
1833	106.4	129.4	205.5	121.5	114.8
1834	82.7	120.8	156.0	110.9	106.9
1835	87.0	116.2	131.1	104.2	108.0
1836	107.5	110.7	158.2	113.4	112.6
1837	106.6	112.5	157.0	120.4	112.9
1838	110.7	103.1	167.2	114.9	115.1
1839	96.5	112.5	166.7	112.4	116.6
1840	87.4	117.7	143.5	107.7	113.7
1841	76.8	114.3	123.5	97.8	97.6
1842	80.6	109.6	123.1	98.3	93.9
1843	92.2	105.4	115.0	94.3	95.4
1844	98.8	94.0	114.2	99.0	95.4
1845	96.1	93.8	117.0	106.7	99.1
1846	78.5	98.5	169.1	111.6	104.7
1847	74.6	98.1	151.2	119.4	119.8
1848	68.4	101.9	126.1	110.2	108.1
1849	79.5	105.0	114.0	104.8	104.4
1850	100.0	100.0	100.0	100.0	100.0
1851	104.3	57.5	104.1	98.5	101.3
1852	104.0	73.1	109.6	106.0	105.1
1853	102.6	89.4	123.9	113.5	107.8
1854	101.7	83.1	121.3	128.5	118.8
1855	116.6	83.8	107.6	126.8	125.7
1856	126.0	81.3	117.0	136.4	134.3
1857	134.1	78.1	100.8	133.5	132.7
1858	101.2	75.0	81.9	113.7	119.1
1859	94.4	78.8	92.2	114.4	118.4
1860	95.4	83.1	92.0	120.0	125.1
1861	93.3	81.3	95.2	117.4	130.9
1862	108.1	76.9	85.6	110.5	129.7
1863	132.2	76.9	81.4	113.3	127.0
1864	136.1	79.4	81.4	107.8	125.2
1865	114.4	73.8	92.8	104.5	122.7
1866	101.4	75.0	96.4	111.3	128.8
1867	104.6	90.0	96.3	116.8	132.8
1868	102.5	91.9	92.7	109.7	138.5
1869	96.5	93.1	90.3	104.9	132.7
1870	89.7	75.0	85.6	101.6	126.4
1871	99.8	66.9	85.7	106.4	127.0

Appendix 2.6. Commodity indices 1871-1910 (1895=100).

	Barley	Oat	Rye	Wheat	Maslin	Rice	Grain	Barley flour	Oat flour	Wheat flour
1871	152.0	117.2	144.9	144.9	131.6	149.2	138.5	166.7	88.5	215.0
1872	148.3	113.9	141.2	140.9	130.3	152.4	135.9	155.6	92.3	205.2
1873	158.7	118.7	145.3	145.8	133.1	146.0	140.5	161.1	100.0	209.8
1874	176.8	126.4	162.4	152.5	147.3	142.9	151.6	183.3	107.7	205.8
1875	174.2	129.4	148.9	144.0	145.5	138.1	148.1	177.8	111.5	177.5
1876	163.9	123.4	146.5	143.5	144.5	136.5	143.3	177.8	100.0	172.3
1877	164.6	132.2	151.0	151.7	147.6	133.3	147.4	183.3	115.4	186.7
1878	161.9	127.7	140.2	151.4	145.3	134.9	144.0	183.3	96.2	183.8
1879	145.1	106.7	126.6	134.1	130.6	134.9	128.6	172.2	96.2	180.3
1880	159.0	117.4	149.5	145.1	138.0	131.7	139.8	172.2	84.6	182.1
1881	165.8	128.9	168.6	148.2	145.3	133.3	148.4	166.7	88.5	167.6
1882	156.3	120.1	153.3	142.8	137.6	123.8	139.1	172.2	103.8	155.5
1883	144.6	113.2	136.2	134.9	133.4	120.6	130.3	161.1	100.0	150.9
1884	141.7	109.2	132.3	128.3	124.7	123.8	126.4	155.6	103.8	154.9
1885	136.2	108.7	126.0	116.7	117.4	114.3	120.6	144.4	96.2	130.6
1886	129.1	102.2	117.3	115.8	107.2	107.9	113.9	138.9	88.5	121.4
1887	118.1	94.8	108.3	107.6	102.6	106.3	106.3	127.8	88.5	128.3
1888	112.3	94.4	103.1	106.1	101.8	106.3	103.8	122.2	96.2	129.5
1889	119.9	104.7	110.9	108.8	108.0	107.9	110.6	122.2	103.8	124.9
1890	123.3	116.5	116.9	115.3	115.6	112.7	117.6	127.8	146.2	123.7
1891	136.2	115.4	131.9	122.4	121.8	111.1	124.0	144.4	115.4	131.8
1892	143.8	128.2	149.7	124.5	132.9	109.5	133.0	150.0	130.8	130.1
1893	122.0	115.9	118.9	110.0	120.5	104.8	116.4	116.7	111.5	120.8
1894	105.8	107.6	102.6	103.2	113.2	106.3	106.5	100.0	103.8	106.4
1895	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1896	104.9	100.3	96.9	99.5	101.2	98.4	100.8	94.4	97.7	100.0
1897	106.0	107.5	100.0	105.1	103.8	96.8	104.2	94.4	96.2	109.2
1898	112.0	117.9	110.7	115.0	111.7	100.0	112.3	105.6	92.3	118.5
1899	115.9	120.6	113.3	112.6	112.6	100.0	114.1	116.7	96.2	107.5
1900	121.2	124.0	114.8	106.6	114.9	100.0	116.0	116.7	146.2	100.0
1901	118.3	122.0	108.5	98.0	116.5	98.4	112.9	111.1	192.3	100.0
1902	118.1	125.7	106.7	96.6	119.2	96.8	113.5	111.1	173.1	152.0
1903	121.0	130.7	107.1	98.8	123.4	95.2	116.2	105.6	196.2	146.8
1904	115.5	127.7	104.4	99.9	119.6	100.0	113.9	105.6	161.5	144.5
1905	117.6	131.4	108.2	104.9	121.8	98.4	116.6	105.6	123.1	145.1
1906	117.2	129.6	113.7	104.0	120.5	98.4	116.5	111.1	123.1	93.1
1907	127.0	141.0	124.0	109.1	133.1	96.8	125.3	127.8	126.9	94.8
1908	140.7	150.8	136.5	122.6	138.2	96.8	135.2	144.4	153.8	102.3
1909	131.9	141.4	128.7	117.3	129.8	93.7	127.5	122.2	115.4	107.5
1910	129.2	140.3	122.9	121.4	128.9	95.2	126.4	111.1	115.4	115.6

Appendix 2.6. Commodity indices 1871-1910 (1895=100) continued.

	Barley meal	Rye flour	Potato flour	Oat- meal	Sago meal	White bread	Brown bread	Rye bread	Flour & bread
1871	147.4	138.0	147.8	146.7	140.0	99.4	134.2	127.8	137.7
1872	163.2	150.7	173.9	146.7	136.0	91.5	126.0	115.5	135.0
1873	184.2	157.7	200.0	166.7	132.0	98.2	182.2	162.9	157.3
1874	194.7	160.6	165.2	170.0	140.0	105.5	156.6	183.5	158.5
1875	189.5	163.4	169.6	160.0	132.0	106.7	142.9	176.3	151.8
1876	173.7	152.1	182.6	163.3	136.0	95.2	139.7	154.6	144.6
1877	184.2	156.3	169.6	160.0	136.0	100.6	153.0	158.8	152.6
1878	184.2	150.7	173.9	173.3	132.0	98.8	145.7	149.5	147.5
1879	173.7	136.6	169.6	170.0	132.0	93.3	142.9	133.0	140.9
1880	173.7	159.2	160.9	166.7	132.0	107.9	163.0	154.6	148.8
1881	163.2	176.1	152.2	150.0	132.0	110.9	164.4	179.4	150.2
1882	163.2	159.2	165.2	136.7	132.0	101.2	158.4	179.4	147.8
1883	157.9	149.3	152.2	156.7	128.0	90.3	151.1	167.0	141.0
1884	157.9	136.6	143.5	160.0	132.0	90.3	135.6	151.5	135.4
1885	157.9	135.2	134.8	153.3	124.0	83.6	115.5	148.5	125.0
1886	147.4	128.2	126.1	146.7	116.0	79.4	110.5	143.3	118.4
1887	142.1	118.3	121.7	140.0	108.0	74.5	109.6	124.7	113.3
1888	126.3	113.1	117.4	133.3	100.0	70.9	108.7	111.3	109.7
1889	131.6	123.9	130.4	133.3	108.0	76.4	113.7	103.1	113.0
1890	126.3	131.0	117.4	140.0	112.0	78.8	115.1	110.3	120.7
1891	152.6	157.7	125.2	136.7	112.0	86.1	138.4	124.7	130.3
1892	147.4	159.2	134.8	130.0	104.0	97.6	156.2	147.4	139.3
1893	121.1	125.4	108.7	120.0	100.0	106.7	114.6	136.1	117.4
1894	105.3	104.2	104.3	103.3	100.0	131.5	111.0	106.2	108.0
1895	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1896	105.3	101.4	104.3	100.0	92.0	102.4	98.2	100.0	99.2
1897	100.0	107.0	104.3	96.7	88.0	100.6	97.3	96.9	99.1
1898	105.3	121.1	117.4	103.3	92.0	120.6	117.4	105.2	110.1
1899	110.5	123.9	121.7	100.0	92.0	107.3	122.4	112.4	111.8
1900	121.1	123.9	121.7	106.7	92.0	85.5	128.8	103.1	116.8
1901	115.8	104.2	117.4	103.3	100.0	115.8	126.0	107.2	122.8
1902	110.5	115.5	117.4	100.0	100.0	117.0	121.9	107.2	124.9
1903	105.3	111.3	117.4	96.7	104.0	106.1	142.9	102.1	128.6
1904	100.0	116.9	121.7	96.7	104.0	126.1	142.9	102.1	126.2
1905	100.0	118.3	130.4	100.0	104.0	127.3	142.9	103.1	122.0
1906	105.3	126.8	126.1	96.7	104.0	107.9	121.0	105.2	112.7
1907	121.1	133.8	126.1	103.3	108.0	106.1	122.4	114.4	118.4
1908	126.3	160.6	139.1	113.3	116.0	112.1	126.9	129.9	131.5
1909	115.8	139.4	126.1	106.7	120.0	107.3	120.1	134.0	119.7
1910	105.3	126.8	130.4	100.0	120.0	72.7	114.2	123.7	111.5

Appendix 2.6. Commodity indices 1871-1910 (1895=100) continued.

	White peas	Peas	Potatos	Raisins	Plums	Berries	Vegetab- les, fruits & berries	Egg	Cream	Margar- ine
1871	101.2	125.3	104.7	250.0	167.2	26.7	109.2	95.5	115.6	144.9
1872	102.3	123.8	119.5	226.7	167.2	23.3	115.8	100.0	109.1	154.0
1873	102.3	127.5	125.8	246.7	167.2	26.7	121.5	111.4	135.1	155.7
1874	109.3	131.1	151.4	250.0	167.2	33.3	138.1	111.4	123.4	183.5
1875	111.6	140.5	161.8	263.3	167.2	36.7	146.4	111.4	154.5	177.8
1876	111.6	131.3	125.6	230.0	167.2	46.7	124.0	118.2	148.1	169.9
1877	108.1	100.8	141.9	246.7	167.2	50.0	132.0	109.1	146.8	186.9
1878	110.5	132.2	123.8	216.7	167.2	46.7	122.1	106.8	133.8	157.4
1879	109.3	123.8	100.0	196.7	159.4	46.7	105.7	109.1	118.2	141.5
1880	111.6	127.2	131.1	270.0	159.4	46.7	128.6	90.9	118.2	161.9
1881	103.5	134.7	130.9	253.3	153.1	46.7	127.2	104.5	120.8	148.3
1882	118.6	128.5	116.7	250.0	171.9	56.7	121.9	97.7	119.5	146.6
1883	118.6	122.4	124.8	210.0	156.3	80.0	125.6	102.3	118.2	140.3
1884	120.9	121.5	109.6	186.7	143.8	60.0	111.7	104.5	118.2	141.5
1885	115.1	115.0	114.6	186.7	125.0	66.7	113.1	90.9	118.2	133.5
1886	108.1	116.6	87.6	156.7	120.3	66.7	95.1	93.2	124.7	121.0
1887	103.5	110.7	80.5	143.3	115.6	66.7	89.0	81.8	127.3	113.1
1888	105.8	107.0	103.5	150.0	115.6	66.7	102.5	86.4	124.7	110.8
1889	104.7	111.6	92.7	150.0	112.5	66.7	96.4	106.8	124.7	105.7
1890	107.0	115.2	92.7	150.0	159.4	73.3	101.5	88.6	133.8	112.5
1891	107.0	116.9	140.7	143.3	132.8	73.3	127.0	93.2	133.8	110.2
1892	110.5	120.5	153.0	126.7	145.3	73.3	134.6	120.5	120.8	113.1
1893	108.1	114.9	103.1	113.3	120.3	73.3	102.2	109.1	118.2	113.1
1894	103.5	105.2	103.7	100.0	100.0	100.0	102.8	104.5	119.5	109.1
1895	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1896	97.7	93.2	111.6	106.7	112.5	100.0	107.4	109.1	100.0	86.4
1897	91.9	94.8	102.2	116.7	123.4	100.0	103.3	111.4	133.8	80.7
1898	95.3	98.0	124.2	103.3	104.7	100.0	114.2	115.9	92.2	83.0
1899	95.3	102.7	127.6	120.0	107.8	100.0	117.8	115.9	129.9	86.9
1900	98.8	108.8	130.9	150.0	109.4	100.0	122.4	118.2	116.9	97.2
1901	102.3	104.2	129.5	130.0	107.8	100.0	120.0	111.4	106.5	98.3
1902	101.2	105.6	137.2	150.0	115.6	83.3	124.0	131.8	106.5	108.0
1903	98.8	107.7	131.1	150.0	115.6	83.3	120.6	120.5	123.4	106.8
1904	93.0	104.2	138.2	146.7	115.6	83.3	123.9	122.7	98.7	97.2
1905	91.9	105.3	128.7	120.0	115.6	100.0	119.2	125.0	107.8	101.7
1906	100.0	109.3	107.9	160.0	115.6	93.3	109.3	131.8	105.2	106.3
1907	101.2	117.3	141.5	146.7	128.1	100.0	130.7	145.5	105.2	106.3
1908	102.3	126.4	152.4	140.0	135.9	100.0	138.2	143.2	105.2	98.9
1909	112.8	130.6	147.2	130.0	145.3	100.0	136.2	145.5	114.3	105.1
1910	116.3	129.3	147.6	166.7	156.3	100.0	139.6	136.4	116.9	113.6

Appendix 2.6. Commodity indices 1871-1910 (1895=100) continued.

	Whole milk	Skimmed milk	Butter	Farm butter	Dairy butter	Goat's cheese	Fermented cheese	Soft cheese	Dairy products
1871	102.5	138.6	106.2	114.9	106.1	99.4	82.8	126.3	113.1
1872	100.6	136.8	113.1	116.7	108.3	101.5	86.6	122.5	115.8
1873	89.4	136.8	114.1	126.9	121.5	108.6	94.0	117.5	119.1
1874	104.3	150.9	134.8	136.7	125.9	114.2	107.3	125.0	132.0
1875	109.9	164.9	130.8	145.4	139.1	126.5	110.3	122.5	136.5
1876	113.7	154.4	124.9	139.0	133.1	129.0	108.1	127.5	133.8
1877	121.1	177.2	137.0	146.7	138.4	137.0	109.4	130.0	142.1
1878	107.5	170.2	115.4	127.3	121.5	132.4	122.4	122.5	127.6
1879	108.1	147.4	103.6	113.6	108.1	107.4	99.3	110.0	115.7
1880	83.2	145.6	116.4	122.3	114.4	104.6	102.6	116.3	116.5
1881	91.9	147.4	118.0	124.3	116.4	118.7	114.9	122.5	119.8
1882	110.6	156.1	117.7	123.7	115.6	129.3	115.3	117.5	122.9
1883	101.9	133.3	114.4	123.1	114.3	126.5	119.8	102.5	117.9
1884	98.1	128.1	117.4	122.4	119.3	125.9	110.4	107.5	117.9
1885	106.2	122.8	111.1	111.9	114.3	120.6	111.9	107.5	114.0
1886	95.7	115.8	104.9	95.8	97.5	118.7	115.7	107.5	107.8
1887	88.2	103.5	102.3	102.1	105.6	109.0	102.6	95.0	102.1
1888	95.7	103.5	108.2	112.6	117.4	102.8	103.7	95.0	105.0
1889	100.0	121.1	111.1	116.1	117.4	104.0	111.2	102.5	109.4
1890	105.0	117.5	103.6	111.2	107.5	109.3	111.2	102.5	108.2
1891	96.9	112.3	106.2	113.3	113.0	114.2	114.3	102.5	108.0
1892	100.0	110.5	108.5	101.4	108.7	120.4	114.2	100.0	110.4
1893	98.8	107.0	104.6	104.2	108.4	120.1	115.7	102.5	108.2
1894	100.0	103.5	103.6	107.0	108.1	109.5	105.2	101.7	105.9
1895	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1896	99.4	98.2	101.0	102.8	104.3	110.5	108.2	100.0	100.3
1897	98.8	100.0	100.7	98.6	101.9	112.3	108.2	100.0	101.8
1898	101.9	100.0	105.2	105.6	107.5	110.8	106.0	100.0	101.4
1899	105.0	110.5	107.9	111.2	109.9	120.7	113.4	100.0	107.9
1900	109.3	115.8	106.6	113.0	109.0	119.8	125.4	100.0	110.0
1901	124.2	149.1	108.9	110.8	105.0	122.5	132.1	100.0	114.2
1902	123.6	145.6	103.9	107.4	102.6	114.2	129.1	100.0	115.1
1903	124.8	140.4	110.5	117.9	114.0	117.9	132.2	100.0	117.7
1904	124.2	138.6	104.9	105.3	99.3	127.2	130.8	106.7	113.0
1905	120.5	117.5	110.8	112.5	106.6	128.4	120.9	105.0	114.0
1906	123.6	86.0	118.4	116.6	109.0	131.2	115.7	102.5	115.2
1907	120.5	117.5	120.0	117.7	109.8	138.6	123.1	107.5	119.6
1908	111.2	93.0	119.3	117.2	109.4	141.0	132.1	107.5	115.4
1909	121.1	86.0	122.0	122.3	115.2	139.2	125.4	110.0	119.1
1910	124.2	87.7	131.1	129.3	120.9	136.7	132.1	105.0	122.7

Appendix 2.6. Commodity indices 1871-1910 (1895=100) continued.

	Pork	Smokedpork	Mutton	Hazel grouse	Veal	Beef	Black grouse	Grouse	Meat
1871	139.2	82.5	85.3	107.4	105.2	104.7	85.7	103.6	106.7
1872	121.0	97.5	94.6	107.4	107.2	106.9	88.6	85.7	105.7
1873	131.3	97.5	107.8	122.2	113.4	115.7	97.1	89.3	114.8
1874	144.3	96.8	111.6	140.7	152.6	118.3	148.6	125.0	126.7
1875	155.1	96.8	123.3	144.4	164.9	119.7	88.6	125.0	131.5
1876	158.5	96.8	127.9	107.4	157.7	118.3	128.6	128.6	132.3
1877	134.1	88.2	124.8	107.4	130.9	129.9	131.4	128.6	126.4
1878	111.9	81.1	116.3	125.9	122.7	122.7	114.3	132.1	116.2
1879	111.9	82.9	96.1	111.1	89.7	113.7	105.7	132.1	105.6
1880	124.4	110.0	103.9	100.0	107.2	106.7	100.0	100.0	109.8
1881	132.4	112.9	116.3	107.4	105.2	109.9	82.9	107.1	115.1
1882	165.3	121.4	110.9	111.1	113.4	112.5	97.1	157.1	126.3
1883	146.6	121.4	107.0	100.0	114.4	116.7	105.7	125.0	121.2
1884	125.6	114.3	103.1	111.1	106.2	114.1	97.1	92.9	112.3
1885	105.7	114.3	105.4	107.4	104.1	109.5	94.3	125.0	107.7
1886	100.6	114.3	96.1	107.4	100.0	104.7	100.0	114.3	102.6
1887	105.1	107.1	94.6	103.7	122.7	97.8	97.1	117.9	103.0
1888	114.8	114.3	90.7	100.0	72.2	100.5	97.1	117.9	100.5
1889	102.8	114.3	100.8	107.4	78.4	100.9	94.3	114.3	100.5
1890	100.6	114.3	121.7	100.0	85.6	108.5	100.0	114.3	107.2
1891	109.1	114.3	91.5	92.6	85.6	106.0	100.0	100.0	101.5
1892	110.2	114.3	110.1	96.3	80.4	105.1	11.4	96.4	102.0
1893	135.2	114.3	107.8	111.1	79.4	108.3	117.1	121.4	112.8
1894	113.1	107.1	107.8	107.4	101.0	106.2	108.6	100.0	107.5
1895	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1896	83.0	89.3	101.6	92.6	103.1	94.5	97.1	107.1	94.3
1897	93.8	94.6	98.4	133.3	125.8	97.5	91.4	135.7	101.9
1898	115.9	96.4	105.4	107.4	142.2	120.9	100.0	125.0	116.2
1899	117.6	96.4	114.7	114.8	169.0	126.1	88.6	117.9	122.3
1900	131.8	117.9	120.9	148.1	158.8	130.3	102.9	139.3	130.8
1901	145.5	125.0	133.3	133.3	177.4	136.7	97.1	132.1	139.8
1902	153.4	132.1	127.1	107.4	156.8	128.9	100.0	117.9	135.2
1903	144.3	125.0	129.5	122.2	162.8	134.1	100.0	153.6	137.2
1904	133.0	117.9	127.1	129.6	148.4	127.7	100.0	139.3	129.9
1905	142.6	121.4	127.9	118.5	162.8	130.3	100.0	146.4	134.7
1906	160.2	121.4	132.6	111.1	169.0	137.1	85.7	110.7	140.2
1907	153.4	121.4	132.6	96.3	169.0	138.7	74.3	103.6	138.1
1908	142.0	121.4	131.8	111.1	162.8	132.3	88.6	114.3	134.1
1909	144.9	121.4	130.2	114.8	152.6	126.1	91.4	121.4	132.0
1910	176.1	121.4	111.1	111.1	165.0	132.7	85.7	107.1	137.7

Appendix 2.6. Commodity indices 1871-1910 (1895=100) continued.

	Cod	Coal- fish	Stockfish, round	Stockfish, split	Stockfish	Clipfish	Hallibut	Salmon	Mackerel
1871	91.4	98.3	117.9	126.3	125.0	105.6	136.4	123.7	105.3
1872	90.9	103.4	117.9	136.8	133.3	92.6	141.2	123.0	89.5
1873	94.3	106.9	128.6	131.6	150.0	105.6	143.6	127.4	94.7
1874	96.0	108.6	121.4	136.8	150.0	111.1	134.7	106.7	105.3
1875	90.3	101.7	128.6	110.5	141.7	98.1	146.4	103.7	110.5
1876	103.4	105.2	96.4	131.6	141.7	129.6	144.8	103.7	121.1
1877	94.3	112.1	135.7	136.8	150.0	96.3	128.7	111.1	126.3
1878	90.3	93.1	110.7	131.6	125.0	109.3	102.9	118.5	110.5
1879	74.3	72.4	89.3	115.8	100.0	87.0	117.5	118.5	110.5
1880	77.7	89.7	67.9	105.3	108.3	72.2	110.0	118.5	105.3
1881	89.1	96.6	135.7	152.6	125.0	120.4	86.7	111.1	105.3
1882	137.7	106.9	135.7	147.4	150.0	135.2	113.3	118.5	121.1
1883	158.9	117.2	203.6	173.7	166.7	157.4	166.7	96.3	105.3
1884	124.6	106.9	175.0	173.7	150.0	111.1	166.7	103.7	110.5
1885	85.1	110.3	110.7	173.7	150.0	100.0	166.7	92.6	110.5
1886	94.9	106.9	103.6	121.1	150.0	81.5	133.3	96.3	105.3
1887	97.1	87.9	81.1	100.0	125.0	96.3	133.3	96.3	105.3
1888	93.7	70.7	107.1	115.8	100.0	107.4	133.3	96.3	63.2
1889	101.7	62.1	110.7	136.8	83.3	107.4	116.7	107.4	78.9
1890	104.0	75.9	103.6	152.6	100.0	100.0	116.7	111.1	94.7
1891	133.7	94.8	142.9	194.7	125.0	129.6	116.7	100.0	94.7
1892	83.4	84.5	71.4	142.1	108.3	103.7	116.7	103.7	94.7
1893	82.3	82.8	67.9	110.5	116.7	96.3	100.0	107.4	84.2
1894	89.1	89.7	78.6	100.0	100.0	87.0	100.0	107.4	84.2
1895	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1896	122.3	122.4	125.0	105.3	116.7	109.3	100.0	103.7	105.3
1897	100.6	101.7	103.6	121.1	133.3	83.3	100.0	103.7	105.3
1898	101.1	101.7	85.7	115.8	133.3	101.9	100.0	107.4	110.5
1899	137.1	137.9	92.9	152.6	158.3	138.9	100.0	111.1	110.5
1900	163.4	163.8	182.1	189.5	183.3	129.6	100.0	111.1	110.5
1901	129.1	129.3	142.9	163.2	200.0	124.1	100.0	118.5	121.1
1902	139.4	139.7	150.0	163.2	191.7	131.5	100.0	111.1	105.3
1903	182.9	184.5	214.3	168.4	175.0	146.3	133.3	111.1	157.9
1904	180.6	181.0	235.7	200.0	158.3	151.9	150.0	118.5	131.6
1905	193.1	194.8	250.0	263.3	300.0	155.6	166.7	111.1	105.3
1906	198.9	200.0	246.4	263.3	333.3	157.4	116.7	118.5	78.9
1907	198.3	200.0	253.6	231.6	291.7	155.6	206.7	125.9	73.7
1908	177.1	177.6	235.7	210.5	275.0	131.5	160.0	129.6	105.3
1909	144.6	144.8	153.6	152.6	275.0	116.7	183.3	118.5	105.3
1910	171.4	172.4	142.9	210.5	333.3	148.1	200.0	148.1	78.9

Appendix 2.6. Commodity indices 1871-1910 (1895=100) continued.

	Herring	Sprat	Ancovy	Lobster	Roe	Fish oil, light	Fish oil, medium	Fish oil, black	Fish
1871	85.3	76.4	716.2	36.4	138.0	186.1	191.3	141.4	119.0
1872	70.5	61.1	634.6	40.9	150.0	186.1	187.0	141.4	114.6
1873	88.0	91.8	656.9	45.5	210.4	186.1	165.2	137.9	123.6
1874	94.9	80.2	588.5	57.6	243.1	173.9	152.2	148.3	124.1
1875	89.9	95.6	592.2	57.6	182.8	173.9	139.1	150.0	118.1
1876	104.1	76.6	651.5	57.6	191.0	173.9	152.2	151.7	127.0
1877	110.1	76.6	521.2	53.0	114.2	170.4	139.1	137.9	120.1
1878	99.5	68.8	445.0	60.6	118.6	149.6	130.4	120.7	110.6
1879	97.7	76.6	521.2	60.6	109.5	147.8	100.0	117.2	100.7
1880	110.6	76.6	544.3	60.6	100.0	139.1	100.0	89.7	100.7
1881	98.6	66.7	430.7	60.6	102.5	139.1	126.1	134.5	112.2
1882	97.7	62.2	366.7	60.6	92.5	139.1	152.2	137.9	126.4
1883	112.9	64.4	305.7	68.2	220.0	139.1	187.0	172.4	146.1
1884	112.0	55.6	246.4	71.2	190.0	99.1	156.5	155.2	127.2
1885	102.8	55.6	260.9	72.7	97.5	87.0	117.4	141.4	109.5
1886	88.5	57.8	237.2	68.2	90.0	87.0	91.3	131.0	101.6
1887	88.9	48.9	174.3	75.8	105.0	88.7	100.0	131.0	97.6
1888	82.5	66.7	296.1	90.9	95.0	87.0	82.6	69.0	94.7
1889	88.0	77.8	245.4	90.9	77.5	87.0	78.3	86.2	96.7
1890	90.8	72.2	173.4	98.5	60.0	139.1	73.9	82.8	99.3
1891	94.9	83.3	183.4	101.5	91.5	121.7	78.3	103.4	117.6
1892	85.3	111.1	228.1	95.5	96.5	104.3	78.3	69.0	96.4
1893	76.5	88.9	171.5	90.9	102.5	104.3	78.3	75.9	90.2
1894	90.3	102.8	97.1	97.0	138.0	104.3	82.6	86.2	92.9
1895	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1896	89.9	86.7	140.4	113.6	147.5	95.7	108.6	117.2	112.0
1897	99.1	83.3	108.1	113.6	110.0	100.0	85.5	75.9	100.9
1898	99.1	86.7	11.6	128.8	100.0	104.3	103.8	103.4	102.0
1899	113.4	100.0	118.6	136.4	91.3	108.7	101.4	96.6	124.3
1900	130.4	161.1	263.7	136.4	186.3	115.5	108.2	103.4	149.5
1901	124.9	155.6	253.6	136.4	200.0	112.2	104.9	100.0	136.2
1902	121.7	136.1	192.5	128.8	275.0	122.6	115.2	110.3	139.2
1903	117.1	103.9	188.7	128.8	241.3	133.1	125.7	120.7	158.6
1904	103.7	102.8	175.5	128.8	285.0	129.3	122.0	117.2	158.5
1905	138.2	183.3	260.8	159.1	297.5	108.7	101.4	96.6	181.0
1906	131.8	183.3	259.7	151.5	167.5	119.5	112.2	107.4	177.5
1907	118.4	200.0	287.1	151.5	132.5	121.7	114.4	109.6	175.3
1908	97.2	111.1	296.9	151.5	135.0	112.2	104.9	100.1	157.7
1909	78.3	166.7	257.1	151.5	240.0	128.5	116.8	109.0	143.0
1910	101.4	127.8	308.1	174.2	240.0	109.1	101.8	96.9	161.3

Appendix 2.6. Commodity indices 1871-1910 (1895=100) continued.

	All-spice	Vine-gar	Hon-ney	Coffee	Cocoa bean	Rock candy	Carda-mom	Curry	Pepper	Raffinade
1871	76.0	109.5	78.6	72.7	95.5	220.7	138.9	122.2	105.6	222.0
1872	76.0	123.8	100.0	82.2	95.5	224.1	138.9	122.2	105.6	217.6
1873	92.0	123.8	100.0	91.6	95.5	220.7	138.9	122.2	105.6	214.3
1874	92.0	138.1	100.0	100.6	95.5	220.7	138.9	122.2	105.6	212.6
1875	92.0	123.8	100.0	96.1	95.5	210.3	138.9	122.2	105.6	206.0
1876	92.0	128.6	100.0	96.5	95.5	213.8	144.4	122.2	105.6	207.7
1877	92.0	123.8	114.3	96.5	95.5	241.4	144.4	122.2	105.6	218.1
1878	92.0	133.3	100.0	94.9	86.4	220.7	144.4	122.2	105.6	212.1
1879	100.0	138.1	100.0	89.1	77.3	213.8	155.6	127.8	111.1	214.3
1880	108.0	138.1	100.0	87.1	77.3	165.5	155.6	138.9	122.2	213.2
1881	108.0	128.6	100.0	79.9	77.3	220.7	155.6	138.9	122.2	211.0
1882	108.0	142.9	107.1	72.7	81.8	210.3	155.6	138.9	122.2	200.0
1883	116.0	147.6	107.1	68.0	127.3	220.7	216.7	161.1	127.8	198.4
1884	96.0	133.3	121.4	70.5	145.5	206.9	216.7	111.1	188.9	183.0
1885	96.0	119.0	107.1	67.6	145.5	196.6	155.6	83.3	200.0	165.4
1886	96.0	119.0	107.1	66.6	127.3	193.1	116.7	83.3	200.0	164.3
1887	96.0	119.0	107.1	87.7	127.3	172.4	100.0	77.8	211.1	157.1
1888	96.0	114.3	92.9	91.0	118.2	131.0	94.4	100.0	211.1	153.8
1889	100.0	133.3	92.9	97.3	118.2	165.5	100.0	88.9	200.0	161.5
1890	104.0	109.5	100.0	98.4	109.1	144.8	105.6	100.0	161.1	148.9
1891	100.0	133.3	100.0	99.4	109.1	134.5	105.6	100.0	133.3	140.1
1892	100.0	104.8	107.1	93.0	104.5	124.1	105.6	100.0	122.2	127.5
1893	100.0	114.3	107.1	96.9	113.6	106.9	105.6	100.0	111.1	115.4
1894	100.0	109.5	92.9	100.4	100.0	106.9	100.0	100.0	100.0	111.0
1895	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1896	96.0	104.8	121.4	98.2	100.0	93.1	133.3	100.0	100.0	98.9
1897	88.0	95.2	121.4	87.1	100.0	86.2	144.4	111.1	105.6	94.0
1898	112.0	95.2	121.4	73.4	113.6	86.2	144.4	11.1	111.1	89.0
1899	108.0	123.8	121.4	65.2	113.6	86.2	138.9	116.7	133.3	90.1
1900	100.0	100.0	121.4	67.6	122.7	89.7	138.9	122.2	144.4	91.2
1901	96.0	100.0	121.4	68.6	104.5	89.7	138.9	122.2	144.4	90.1
1902	92.0	95.2	121.4	68.0	104.5	89.7	127.8	122.2	144.4	85.2
1903	96.0	81.0	121.4	65.0	104.5	86.2	116.7	122.2	155.6	83.5
1904	96.0	114.3	121.4	65.6	100.0	89.7	111.1	122.2	150.0	88.5
1905	84.0	114.3	121.4	65.8	104.5	96.6	100.0	111.1	150.0	102.2
1906	92.0	90.5	121.4	66.4	127.3	100.0	94.4	111.1	138.9	102.2
1907	92.0	85.7	135.7	66.4	159.1	106.9	100.0	111.1	127.8	103.8
1908	76.0	81.0	135.7	66.8	109.1	110.3	105.6	111.1	105.6	105.5
1909	76.0	95.2	142.9	66.4	90.9	96.6	105.6	111.1	100.0	92.9
1910	80.0	95.2	142.9	69.7	90.9	103.4	111.1	111.1	111.1	98.9

Appendix 2.6. Commodity indices 1871-1910 (1895=100) continued.

	Salt	Syrup	Chokolate	Sugar	Tea	Farin, supreme	Farin	Icing sugar	Colonial goods	Food
1871	129.0	200.0	100.0	201.1	110.5	272.2	250.6	221.7	140.1	121.6
1872	132.2	194.1	100.0	202.2	110.5	271.6	247.8	221.7	143.5	121.7
1873	138.7	194.1	93.5	203.8	110.5	267.8	247.8	220.0	146.0	130.4
1874	148.4	194.1	93.5	203.3	110.5	256.4	249.2	200.0	148.5	138.4
1875	141.9	194.1	93.5	191.2	105.3	252.6	243.5	221.7	143.5	138.1
1876	138.7	200.0	93.5	197.3	105.3	246.9	246.3	221.7	144.8	135.3
1877	132.3	205.9	93.5	197.8	105.3	220.6	217.0	210.8	144.5	137.7
1878	129.0	200.0	93.5	194.5	110.5	220.6	213.4	200.0	141.8	128.8
1879	129.0	188.2	93.5	191.2	105.3	211.0	209.8	200.0	139.5	118.6
1880	125.8	188.2	93.5	190.1	105.3	215.8	213.4	200.0	138.3	123.8
1881	125.8	176.5	93.5	192.9	110.5	193.5	213.4	210.8	137.9	128.0
1882	112.9	170.6	100.0	187.4	115.8	189.1	209.8	221.7	134.6	130.7
1883	125.8	188.2	100.0	184.6	110.5	195.7	206.1	218.3	138.4	130.7
1884	119.4	170.6	100.0	177.5	110.5	173.9	198.9	194.2	136.3	123.4
1885	116.1	164.7	100.0	165.9	100.0	160.9	188.1	186.7	127.8	116.0
1886	112.9	164.7	100.0	161.5	100.0	163.0	180.8	181.7	124.7	108.8
1887	103.2	152.9	100.0	155.5	94.7	150.0	166.4	175.0	125.2	104.8
1888	106.5	158.8	100.0	159.3	105.3	163.0	150.8	168.3	125.4	105.2
1889	119.4	141.2	100.0	167.6	105.3	167.4	157.4	171.7	131.0	107.6
1890	116.1	129.4	100.0	154.9	100.0	154.3	149.2	158.3	123.3	110.4
1891	112.9	117.6	100.0	141.8	105.3	147.8	145.9	145.0	119.4	116.6
1892	109.7	117.6	100.0	120.3	100.0	119.6	131.1	141.7	109.6	116.1
1893	103.2	117.6	100.0	116.5	105.3	126.1	119.7	120.0	108.0	107.8
1894	100.0	105.9	100.0	109.3	105.3	110.9	113.1	105.0	104.1	104.0
1895	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1896	93.5	94.1	100.0	98.9	100.0	102.2	95.1	95.0	99.7	101.7
1897	96.8	94.1	89.1	93.4	94.7	93.5	93.4	93.3	95.1	100.9
1898	93.5	88.2	89.1	93.4	100.0	95.7	90.2	90.0	90.8	106.4
1899	87.1	88.2	89.1	96.2	89.5	100.0	88.5	93.3	92.4	113.4
1900	96.8	94.1	89.1	96.2	84.2	97.8	90.2	93.3	93.5	120.7
1901	96.8	88.2	89.1	93.4	89.5	95.7	88.5	91.7	92.6	121.5
1902	93.5	88.2	89.1	85.7	89.5	84.8	86.9	96.7	89.9	122.0
1903	90.3	88.2	84.8	88.5	84.2	89.1	82.0	96.7	88.4	126.4
1904	100.0	94.1	89.1	93.4	89.5	93.5	85.2	96.7	92.2	124.2
1905	96.8	100.0	93.5	109.3	94.7	110.9	98.4	103.3	96.9	128.2
1906	90.3	82.4	95.7	109.9	84.2	115.2	98.4	116.7	95.4	126.0
1907	100.0	82.4	106.5	112.6	84.2	119.6	98.4	119.0	98.5	130.5
1908	103.2	94.1	91.3	115.4	100.0	117.4	103.3	120.8	97.1	129.8
1909	96.8	100.0	87.0	95.1	100.0	95.7	90.2	100.0	90.4	124.5
1910	96.8	117.6	87.0	109.9	105.3	115.2	96.7	110.0	96.5	128.5

Appendix 2.6. Commodity indices 1871-1910 (1895=100) continued.

	Tobacco, smoke	Snuff tobacco	Tob- acco	Beer	Misc alcohol	Bever- ages	Beverages & tobacco	Greased leather	Canvas	Linen
1871	73.2	75.5	74.0	68.1	71.3	69.3	72.1	122.3	117.6	160.9
1872	69.9	71.9	70.6	69.4	72.5	70.5	70.6	133.2	119.6	201.1
1873	68.7	70.6	69.3	77.3	79.6	78.2	72.9	150.5	113.7	164.1
1874	72.7	75.0	73.5	77.8	80.0	78.6	75.5	164.9	113.7	160.9
1875	80.2	83.2	81.2	78.7	80.8	79.5	80.5	154.0	107.8	164.1
1876	80.9	84.0	81.9	78.7	80.8	79.5	81.0	128.2	102.0	210.9
1877	79.5	82.5	80.5	81.9	83.7	82.6	81.3	120.3	111.8	150.0
1878	79.9	82.9	80.9	79.2	81.3	80.0	80.5	128.2	105.9	133.7
1879	80.5	83.6	81.5	69.0	72.1	70.2	77.0	122.8	107.8	133.7
1880	78.9	81.8	79.9	79.2	81.3	80.0	79.9	126.2	103.9	133.7
1881	76.9	79.6	77.8	80.1	82.1	80.8	79.0	115.8	109.8	127.2
1882	83.3	86.6	84.4	91.2	92.1	91.5	87.3	114.9	111.8	110.9
1883	81.7	84.9	82.8	86.6	87.9	87.1	84.5	115.3	105.9	117.4
1884	81.5	84.7	82.6	82.9	84.6	83.5	82.9	115.8	105.9	150.0
1885	86.4	90.0	87.6	85.2	86.7	85.8	86.9	114.4	103.9	150.0
1886	88.5	92.4	89.8	81.9	83.7	82.6	86.9	115.3	105.9	150.0
1887	87.4	91.1	88.6	81.5	83.4	82.2	86.1	112.9	86.3	133.7
1888	99.2	104.1	100.8	80.1	82.1	80.8	92.8	112.4	100.0	133.7
1889	102.0	107.2	103.7	77.8	80.0	78.6	93.7	114.9	98.0	133.7
1890	97.1	101.8	98.7	80.1	82.1	80.8	91.5	104.0	103.9	142.4
1891	99.5	104.5	101.2	80.6	82.5	81.3	93.2	99.5	103.9	142.4
1892	99.5	104.5	101.2	79.2	81.3	80.0	92.7	99.5	103.9	125.0
1893	101.1	106.2	102.8	79.2	81.3	80.0	93.7	98.5	98.0	108.7
1894	96.9	101.6	98.5	82.9	84.6	83.5	92.5	99.5	98.0	110.9
1895	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1896	98.9	103.8	100.5	110.2	109.2	109.8	104.2	105.0	105.9	105.4
1897	97.1	101.8	98.7	107.9	107.1	107.6	102.2	100.5	84.3	105.4
1898	98.4	103.2	100.0	108.8	107.9	108.5	103.4	99.0	98.0	95.7
1899	96.1	100.7	97.6	108.9	108.0	108.6	102.0	101.0	96.1	95.7
1900	96.2	100.8	97.7	107.9	107.1	107.6	101.7	99.0	123.5	150.0
1901	98.0	102.8	99.6	106.5	105.9	106.3	102.3	97.5	100.0	133.7
1902	111.5	117.7	113.6	106.5	105.9	106.3	110.6	93.1	92.2	121.7
1903	108.3	114.1	110.2	109.7	108.7	109.3	109.9	98.5	84.3	127.2
1904	106.4	112.0	108.3	112.5	111.3	112.0	109.8	103.5	86.3	133.7
1905	106.4	112.0	108.3	112.5	111.3	112.0	109.8	114.9	109.8	130.4
1906	106.1	111.7	108.0	112.5	111.3	112.0	109.6	112.9	88.2	143.5
1907	110.0	116.0	112.0	112.5	111.3	112.0	112.0	111.9	86.3	127.2
1908	119.0	125.9	121.3	112.5	111.3	112.0	117.6	122.8	90.2	118.5
1909	119.1	126.0	121.4	113.0	111.7	112.5	117.8	115.3	92.2	121.7
1910	122.7	130.0	125.1	115.7	114.1	115.1	121.1	113.9	98.0	130.4

Appendix 2.6. Commodity indices 1871-1910 (1895=100) continued.

	Shoe leather	Wool	Home- spun	Hides	Dried skin	Salted skin	Cloth- ing & footw	Birch wood	Olive oil	Pine wood
1871	128.0	107.0	89.7	166.7	90.3	171.6	123.5	88.8	171.4	85.4
1872	149.4	135.7	105.6	166.7	124.9	172.5	143.8	159.8	164.3	108.5
1873	150.6	135.7	108.9	166.7	116.2	147.3	139.3	122.9	157.1	121.2
1874	151.2	127.5	113.6	166.7	107.6	122.1	138.5	145.3	142.9	153.8
1875	155.5	115.8	129.1	166.7	105.4	115.8	136.9	138.3	142.9	128.3
1876	132.3	115.2	114.1	183.3	90.3	71.6	132.3	121.5	150.0	122.2
1877	125.0	119.9	121.6	183.3	85.9	59.0	123.1	132.2	157.1	125.9
1878	117.7	116.4	113.1	183.3	85.9	59.0	118.5	118.2	157.1	108.0
1879	111.0	110.5	108.9	183.3	90.3	71.6	116.1	90.7	142.9	83.0
1880	124.4	125.1	106.1	116.7	103.2	109.5	119.6	97.2	135.7	89.2
1881	121.3	109.9	104.7	91.7	101.1	103.2	112.3	107.9	121.4	108.5
1882	126.8	111.7	100.0	86.7	101.1	103.2	109.9	111.2	128.6	113.7
1883	131.7	110.5	100.5	91.7	105.4	115.8	112.0	99.5	128.6	100.9
1884	129.3	104.7	100.5	91.7	103.2	109.5	115.1	105.6	121.4	119.8
1885	123.2	83.6	102.8	100.0	101.1	103.2	110.1	105.1	114.3	111.8
1886	123.8	91.8	104.2	100.0	96.8	90.5	111.5	101.9	107.1	107.5
1887	120.1	95.9	104.2	91.7	94.6	84.2	106.6	101.9	107.1	99.5
1888	116.5	100.0	102.8	91.7	96.8	90.5	108.3	96.7	114.3	100.5
1889	111.6	104.7	103.3	91.7	97.8	93.7	109.1	105.6	121.4	105.2
1890	112.8	104.7	105.2	86.7	97.8	93.7	109.4	111.7	121.4	108.0
1891	114.6	95.9	102.3	76.7	100.0	100.0	106.7	110.7	121.4	110.4
1892	117.7	95.9	103.3	73.3	95.7	87.4	103.6	112.6	114.3	116.5
1893	99.4	87.7	100.0	73.3	97.8	93.7	96.6	107.5	114.3	126.4
1894	87.2	83.6	100.5	73.3	93.5	81.1	94.1	108.4	107.1	103.8
1895	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1896	102.4	95.9	99.5	100.0	96.8	90.5	100.8	102.3	107.1	103.8
1897	100.0	75.4	100.5	100.0	96.8	90.5	94.1	106.1	107.1	106.6
1898	100.0	79.5	94.8	108.3	98.9	96.8	94.4	113.1	107.1	112.3
1899	95.1	100.0	96.2	116.7	96.8	90.5	98.2	130.4	114.3	130.7
1900	100.6	91.8	102.8	116.7	101.1	103.2	109.1	129.0	114.3	126.9
1901	95.7	83.6	112.7	108.3	103.2	109.5	103.8	117.3	107.1	117.0
1902	95.1	91.8	101.4	116.7	105.4	115.8	101.5	115.9	107.1	122.6
1903	97.6	95.9	101.4	116.7	101.1	103.2	102.8	115.9	121.4	120.3
1904	100.0	104.7	100.5	133.3	101.1	103.2	107.4	111.2	164.3	117.9
1905	101.8	108.8	103.8	146.7	107.6	122.1	113.9	114.5	171.4	118.4
1906	107.3	117.0	107.0	163.3	114.1	141.0	118.8	109.3	171.4	123.1
1907	113.4	112.9	125.8	155.0	105.4	115.8	116.6	134.1	164.3	135.4
1908	107.9	91.8	117.4	141.7	64.9	104.1	107.9	150.0	142.9	146.7
1909	108.5	125.1	93.9	166.7	73.6	104.1	112.3	128.0	192.9	148.1
1910	122.0	117.0	93.9	170.0	74.7	94.6	113.6	126.2	214.3	141.5

Appendix 2.6. Commodity indices 1871-1910 (1895=100) continued.

	Spruce wood	Misc wood	Coal	Misc oil	Paraffine	Tallow	Candles	Fish oil	Mat- ches	Fuel & lighting
1871	78.8	84.3	108.2	167.6	336.4	157.1	147.0	171.2	277.8	125.4
1872	102.8	123.7	121.3	165.9	352.3	142.9	147.0	169.8	277.8	148.8
1873	119.6	121.2	155.7	155.9	263.6	164.3	144.8	161.4	277.8	146.0
1874	141.9	147.0	152.5	152.5	365.9	157.1	144.8	156.6	277.8	163.6
1875	131.3	132.6	137.7	148.0	304.5	142.9	155.7	152.8	277.8	150.1
1876	117.9	120.5	118.0	153.8	350.0	142.9	147.0	157.7	277.8	143.9
1877	125.7	127.9	113.1	142.6	404.5	150.0	149.2	147.6	277.8	149.8
1878	104.5	110.2	104.9	128.3	284.1	150.0	144.8	132.2	277.8	131.5
1879	88.8	87.5	98.4	114.6	245.5	128.6	116.4	120.5	277.8	111.5
1880	93.3	93.2	103.3	102.0	254.5	121.4	110.9	108.5	277.8	113.5
1881	101.7	106.0	104.9	129.9	240.9	121.4	108.7	131.9	277.8	122.1
1882	110.1	111.7	108.2	141.6	209.1	128.6	116.4	141.6	138.9	121.9
1883	98.9	99.8	104.9	168.8	215.9	121.4	136.1	164.5	138.9	118.5
1884	101.7	109.0	104.9	142.2	209.1	121.4	127.3	135.6	138.9	120.0
1885	100.6	105.8	98.4	119.0	204.5	114.3	116.4	114.1	133.3	113.5
1886	96.6	102.0	98.4	104.6	202.3	107.1	105.5	102.1	116.7	108.1
1887	94.4	98.6	93.4	108.4	184.1	85.7	105.5	105.5	105.6	103.6
1888	92.2	96.5	88.5	76.8	197.7	92.9	105.5	78.7	105.6	100.3
1889	98.3	103.0	93.4	81.9	200.0	100.0	94.5	83.0	105.6	105.2
1890	102.2	107.3	104.9	89.1	190.9	114.3	100.0	97.6	105.6	110.5
1891	109.5	110.2	108.2	95.5	163.6	114.3	105.5	100.1	111.1	111.9
1892	111.2	113.4	103.3	78.5	122.7	107.1	100.0	83.0	116.7	108.6
1893	112.8	115.6	100.0	81.2	97.7	114.3	100.0	85.3	105.6	108.4
1894	103.4	105.2	106.6	87.0	88.6	107.1	100.0	90.1	105.6	102.8
1895	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1896	104.5	103.5	86.9	107.7	100.0	85.7	94.5	106.1	102.8	100.5
1897	106.1	106.3	86.9	83.2	95.5	85.7	89.1	86.3	102.8	99.2
1898	111.7	112.4	95.1	102.1	95.5	85.7	94.5	102.8	102.8	105.7
1899	131.8	131.0	114.8	99.3	113.6	85.7	100.0	101.2	102.8	119.5
1900	131.3	129.1	142.6	106.0	120.5	85.7	100.0	108.0	102.8	122.8
1901	128.5	120.9	131.1	102.7	113.6	92.9	100.0	104.6	102.8	116.0
1902	129.6	122.7	116.4	112.9	111.4	107.1	100.0	114.9	102.8	116.9
1903	120.1	118.8	111.5	123.2	111.5	114.3	94.5	125.2	105.6	116.3
1904	117.3	115.5	113.1	119.6	109.1	107.1	92.3	121.6	105.6	115.8
1905	116.2	116.4	104.9	99.3	109.1	114.3	89.1	101.2	105.6	113.9
1906	124.0	118.8	111.5	110.0	113.6	121.4	94.5	111.9	105.6	117.8
1907	134.6	134.7	123.0	112.1	122.7	128.6	103.8	114.1	108.3	129.3
1908	172.6	156.4	126.2	102.8	143.2	142.9	103.8	104.7	108.3	140.8
1909	149.2	141.8	108.2	114.1	120.5	142.9	103.8	116.9	105.6	133.3
1910	145.3	137.7	114.8	99.7	113.6	142.9	98.4	101.6	105.6	130.8

Appendix 2.6. Commodity indices 1871-1910 (1895=100) continued.

	Rent	Misc housing	Housing	Train	Tram	Travel & transport	Cleanser	Soap	Cod liver oil
1871	57.0	64.2	60.2	193.2	107.5	158.9	194.1	171.1	182.4
1872	62.0	69.5	65.4	197.4	108.5	161.8	194.1	164.7	181.8
1873	64.4	71.8	67.7	194.9	108.0	160.1	190.5	160.5	178.1
1874	71.9	79.8	75.5	212.2	110.0	171.3	188.2	155.4	168.1
1875	74.3	82.1	77.8	136.8	100.0	122.1	185.4	170.0	166.3
1876	79.3	87.1	82.8	146.9	100.0	128.1	179.1	164.0	168.4
1877	79.7	87.2	83.1	164.2	100.0	138.5	170.6	163.7	162.5
1878	83.8	91.2	87.1	181.2	100.0	148.7	167.0	156.3	143.8
1879	78.3	84.8	81.2	187.4	100.0	152.4	165.1	147.4	137.6
1880	76.1	82.0	78.8	162.7	100.0	137.6	154.5	145.3	128.3
1881	77.9	83.6	80.5	161.0	100.0	136.6	150.7	154.7	136.7
1882	79.2	84.5	81.6	151.6	100.0	131.0	147.8	134.4	140.9
1883	78.1	82.9	80.3	151.6	100.0	131.0	142.3	129.5	149.6
1884	74.6	78.8	76.5	148.6	100.0	129.2	138.1	124.7	113.3
1885	79.6	83.7	81.4	140.7	100.0	124.4	128.3	117.0	97.0
1886	76.2	79.7	77.8	143.9	100.0	126.3	123.3	119.6	92.0
1887	79.0	82.2	80.5	145.4	100.0	127.2	122.4	112.1	94.6
1888	78.2	81.0	79.5	143.9	100.0	126.3	110.4	92.6	84.5
1889	78.4	80.8	79.5	136.0	100.0	121.6	112.1	98.9	85.6
1890	82.3	84.4	83.3	132.8	100.0	119.7	110.6	89.8	123.7
1891	87.0	88.7	87.8	131.3	100.0	118.8	111.2	88.4	113.4
1892	90.0	91.3	90.6	120.5	100.0	112.3	106.1	105.3	96.9
1893	96.8	97.7	97.2	101.7	100.0	101.0	105.7	88.4	97.6
1894	95.6	96.0	95.8	100.0	100.0	100.0	103.4	95.1	99.2
1895	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1896	104.9	104.4	104.7	101.7	100.0	101.0	97.9	98.6	99.8
1897	106.9	105.9	106.4	100.0	114.0	105.6	93.7	97.9	95.4
1898	113.2	111.5	112.4	103.2	101.0	102.3	91.1	93.0	104.1
1899	115.5	113.2	114.5	103.2	101.0	102.3	86.7	97.2	106.4
1900	107.9	105.3	106.7	106.4	103.1	105.1	96.4	102.6	113.2
1901	105.8	102.6	104.4	103.2	103.1	103.2	97.5	102.6	109.9
1902	106.8	103.2	105.2	101.7	95.0	99.0	97.0	103.2	120.3
1903	105.7	101.6	103.8	98.5	96.9	97.9	89.9	104.2	130.7
1904	101.2	96.7	99.2	103.2	100.0	101.9	89.0	102.1	127.0
1905	97.3	92.6	95.2	101.7	96.9	99.8	81.0	102.6	106.4
1906	102.9	97.4	100.4	103.2	98.1	101.2	77.6	110.2	117.2
1907	101.0	95.1	98.4	109.4	99.0	105.2	89.0	108.8	119.4
1908	102.9	96.4	100.0	111.1	91.9	103.4	89.0	115.8	109.9
1909	104.1	97.1	100.9	111.1	94.1	104.3	80.1	105.3	124.8
1910	110.3	102.3	106.7	112.6	95.0	105.6	84.6	105.3	106.8

Appendix 2.6. Commodity indices 1871-1910 (1895=100) continued.

	Natural ice	Medical care & health	General
1871	149.5	180.2	114.8
1872	168.7	178.1	120.7
1873	270.7	178.5	124.5
1874	337.5	176.2	131.3
1875	200.7	175.8	128.4
1876	196.8	171.3	126.7
1877	140.6	164.9	127.0
1878	168.7	158.1	121.2
1879	140.6	151.3	113.2
1880	140.6	145.0	115.5
1881	123.0	148.6	117.3
1882	446.5	152.7	118.6
1883	158.3	138.8	118.0
1884	253.2	132.2	114.0
1885	123.0	117.3	109.2
1886	94.9	114.6	104.7
1887	119.4	112.6	102.0
1888	84.5	96.8	101.7
1889	105.5	101.1	103.4
1890	140.6	105.3	105.8
1891	91.3	101.0	109.2
1892	70.3	102.6	108.3
1893	169.4	99.3	103.4
1894	116.1	99.5	100.4
1895	100.0	100.0	100.0
1896	126.1	99.7	101.9
1897	88.9	95.6	100.5
1898	461.7	109.2	105.1
1899	192.9	99.2	110.2
1900	132.5	103.7	115.1
1901	110.8	102.6	113.7
1902	102.3	104.3	113.9
1903	95.1	104.0	116.0
1904	102.8	102.4	115.0
1905	133.6	97.2	117.2
1906	171.9	102.9	118.2
1907	108.0	104.0	120.9
1908	190.6	108.6	120.3
1909	114.5	100.8	117.8
1910	374.7	109.3	121.1

Appendix 2.7. Commodity indices 1910-1920 (1913=100).

	Barley	Oat	Maslin	Rye	Wheat	Rice	Grain	Wheat flour	Rye flour	Oat flour
1910	84.3	98.8	92.3	88.1	92.5	87.0	89.9	107.3	83.7	100.3
1911	93.5	114.5	105.1	92.6	96.8	89.1	96.9	103.0	90.5	116.8
1912	115.3	130.5	123.7	110.5	105.6	97.8	111.0	103.0	100.0	134.2
1913	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1914	110.1	133.5	123.0	115.5	125.6	108.7	117.6	103.0	119.0	136.5
1915	167.6	222.1	197.6	175.4	190.1	130.4	172.2	133.3	185.7	224.4
1916	171.8	205.3	190.2	164.0	206.3	143.5	174.2	145.5	200.0	201.3
1917	326.5	407.1	370.8	187.8	406.3	215.2	300.8	236.4	338.1	380.4
1918	396.8	420.0	409.6	342.3	470.6	219.6	351.3	275.8	419.0	413.9
1919	332.4	378.5	357.8	338.2	420.6	202.2	316.9	230.3	352.4	372.3
1920	385.8	426.6	408.2	269.0	432.0	352.2	373.5	330.3	400.0	419.2

Appendix 2.7. Commodity indices 1910-1920 (1913=100) continued.

	Oat meal	Oat meal, large	Oatmeal, American	Barley flour	Barley meal	Potato flour	Rice meal	Rye bread	Malted bread	White bread	Flour & bread
1910	85.3	83.8	87.1	83.9	82.0	94.7	85.4	84.5	84.6	98.0	90.8
1911	97.1	94.6	100.0	94.5	92.3	97.9	87.5	90.9	87.5	95.9	95.8
1912	100.0	97.3	103.2	100.9	100.0	104.3	95.8	95.5	95.8	100.0	102.3
1913	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1914	114.7	110.8	119.4	116.5	115.4	104.3	104.2	118.2	112.5	104.1	113.6
1915	150.0	140.5	154.8	159.6	161.5	134.0	122.9	159.1	150.0	112.2	154.0
1916	150.0	148.6	154.8	176.1	184.6	183.0	135.4	177.3	166.7	116.3	164.4
1917	244.1	251.4	248.4	304.6	326.9	263.8	206.3	295.5	279.2	208.2	278.9
1918	305.9	278.4	306.5	398.2	434.6	268.1	237.5	363.6	185.4	283.7	311.2
1919	250.0	224.3	267.7	323.9	346.2	368.1	218.8	336.4	187.5	232.7	273.6
1920	302.9	281.1	332.3	375.2	392.3	285.1	356.3	372.7	258.3	249.0	331.9

Appendix 2.7. Commodity indices 1910-1920 (1913=100) continued.

	Peas	Peas, yellow	Potatos	Carrots & turnips	Prunes	Berries & fruits	Vegetab- les, fruits & berries	Whole milk	Skimmed milk	Sour whole milk
1910	86.2	83.7	113.8	116.5	93.1	93.0	106.2	94.7	101.3	95.4
1911	94.1	91.4	118.5	122.3	95.0	100.0	111.7	94.1	100.0	94.7
1912	101.5	100.0	114.8	117.8	98.0	104.7	111.1	100.0	100.0	99.7
1913	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1914	114.0	114.3	111.1	113.4	99.0	112.1	111.6	100.0	100.0	99.7
1915	221.0	228.6	151.9	162.3	128.7	170.4	168.1	111.8	112.5	111.5
1916	256.6	265.7	174.1	189.1	154.5	229.6	196.3	141.2	137.5	140.2
1917	343.4	357.1	218.5	242.5	259.4	300.8	254.2	176.5	175.0	175.7
1918	419.9	437.1	263.0	296.0	339.6	359.1	308.4	258.8	237.5	254.8
1919	410.3	428.6	244.4	273.7	321.8	340.7	291.4	311.8	262.5	303.5
1920	412.5	431.4	240.7	269.2	326.7	334.0	288.9	329.4	262.5	318.5

Appendix 2.7. Commodity indices 1910-1920 (1913=100) continued.

	Sour skimmed milk	Misc milk	Butter. dairy	Butter. mountain	Butter	Cream	Sour cream	Margarin. supreme	Margarin. secondary	Goats cheese
1910	96.7	96.5	93.4	91.5	91.5	92.2	92.8	94.7	94.7	95.8
1911	96.0	95.7	92.1	90.6	90.5	91.1	91.8	93.8	93.8	94.9
1912	100.1	100.0	98.3	96.9	97.5	97.6	98.0	96.5	96.5	94.9
1913	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1914	100.1	100.0	101.2	102.2	102.0	101.8	101.5	100.9	100.9	105.8
1915	112.1	112.0	121.2	119.2	123.5	121.2	119.6	111.5	111.5	116.7
1916	140.3	140.2	137.3	136.2	139.0	137.4	138.0	128.3	128.3	175.0
1917	176.3	176.1	191.3	193.3	180.0	188.6	186.5	197.3	197.3	223.1
1918	253.0	253.0	270.5	280.4	255.0	269.2	266.9	324.8	324.8	281.4
1919	297.9	298.3	312.0	327.7	300.0	313.7	312.1	270.8	270.8	407.7
1920	310.5	311.1	326.6	345.1	314.0	329.0	327.4	307.1	307.1	425.6

Appendix 2.7. Commodity indices 1910-1920 (1913=100) continued.

	Brown cheese	White cheese	Ferment-ed cheese	Eggs	Veg oil, superior	Veg oil, secondary	Cod liver oil	Dairy products & eggs	Beef, supreme	Beef, secondary
1910	96.1	79.7	91.2	96.1	79.6	74.5	92.3	93.0	75.0	71.9
1911	95.2	78.9	90.3	92.2	79.6	74.5	97.0	92.1	77.9	75.2
1912	98.4	91.1	94.5	97.8	87.6	84.3	86.3	96.9	89.0	87.6
1913	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1914	96.8	95.6	101.0	102.8	94.7	97.1	94.2	100.4	99.3	97.5
1915	124.2	116.7	118.2	125.7	99.1	100.0	179.0	117.8	108.1	106.6
1916	200.0	201.1	187.7	173.7	131.0	136.3	362.9	153.9	193.4	194.2
1917	245.2	273.3	242.2	236.3	159.3	168.6	409.6	203.1	226.5	223.1
1918	285.5	312.2	291.2	279.3	201.8	214.7	392.7	275.4	372.8	376.0
1919	480.6	395.6	418.8	373.7	174.3	189.2	358.2	322.8	422.1	407.4
1920	474.2	464.4	446.8	385.5	226.5	245.1	405.7	344.1	367.6	352.9

Appendix 2.7. Commodity indices 1910-1920 (1913=100) continued.

	Mutton. supreme	Mutton. secondary	Salted mutton	Veal, supreme	Veal, secondary	Veal, newborn	Pork	Bacon	Bacon. American	Game
1910	87.9	82.2	82.0	84.0	82.8	82.4	108.0	104.1	102.7	92.3
1911	84.8	79.8	80.2	81.9	79.7	80.0	92.0	91.2	91.2	92.3
1912	91.7	86.0	86.5	88.2	86.7	88.2	89.1	88.4	89.9	97.8
1913	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1914	104.5	100.0	100.0	97.2	99.2	103.5	104.4	102.7	104.1	103.1
1915	115.9	112.4	116.2	110.4	121.1	114.1	127.7	122.4	118.2	118.2
1916	195.5	189.9	196.4	190.3	194.5	192.9	197.1	183.7	148.0	171.2
1917	248.5	241.9	254.1	231.9	239.1	235.3	262.8	247.6	220.9	254.8
1918	385.6	367.4	345.9	357.6	360.9	350.6	375.9	368.7	251.4	340.8
1919	395.5	381.4	421.6	361.8	367.2	367.1	397.8	377.6	252.0	376.4
1920	387.9	373.6	355.9	368.8	370.3	376.5	360.6	343.5	277.7	334.3

Appendix 2.7. Commodity indices 1910-1920 (1913=100) continued.

	Poultry	Reindeer	Meat	Cod. round	Cod. fresh	Cod. misc	Cod. salted	Clipfish	Stockfish, round	Stockfish, split
1910	91.2	82.4	86.3	80.2	80.4	87.0	95.0	104.2	98.5	128.0
1911	91.1	81.7	83.1	85.4	86.4	91.3	87.5	95.8	104.9	115.8
1912	96.2	84.0	88.9	93.8	93.8	91.3	92.5	95.8	81.1	91.5
1913	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1914	102.2	95.4	100.8	102.1	102.5	115.2	105.0	122.5	115.1	133.9
1915	118.3	119.1	115.0	116.7	118.5	147.8	125.0	138.0	143.8	193.0
1916	170.6	165.6	186.8	166.7	169.1	182.6	162.5	154.9	267.0	307.9
1917	255.0	256.5	239.4	202.1	204.9	334.8	187.5	152.1	283.9	307.4
1918	347.5	398.5	358.6	214.6	219.8	421.7	177.5	133.8	216.3	330.8
1919	388.5	480.9	387.7	185.4	191.4	495.7	192.5	143.7	324.5	471.7
1920	340.7	389.3	355.6	179.2	186.4	406.5	257.5	249.3	283.9	389.5

Appendix 2.7. Commodity indices 1910-1920 (1913=100) continued.

	Stockfish, pollock	Roe	Herring, fresh	Herring, salted	Halibut	Macke- rell, fresh	Macke- rell, salted	Coalfish, fresh	Coalfish, round	Headock
1910	121.7	108.0	62.0	62.0	99.1	62.7	62.0	121.6	121.7	99.2
1911	99.1	65.6	66.8	66.8	94.6	67.5	66.8	99.0	99.1	92.2
1912	96.4	45.6	82.8	82.8	100.0	83.7	82.8	96.3	96.4	95.0
1913	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1914	107.6	68.2	87.8	87.8	100.9	88.9	88.5	107.5	107.6	104.8
1915	144.7	92.2	180.4	180.3	107.2	116.1	126.0	137.3	144.7	128.5
1916	257.1	221.4	344.1	343.9	151.4	189.4	208.1	196.5	218.5	185.8
1917	283.4	121.4	243.4	243.3	190.1	141.7	164.5	198.5	233.8	208.7
1918	314.5	116.7	241.6	241.5	270.3	140.7	163.4	201.1	251.6	220.8
1919	462.7	350.1	288.6	288.5	320.7	153.5	174.2	217.5	276.2	214.3
1920	370.0	291.7	235.7	400.0	320.7	153.5	193.9	227.5	265.4	212.3

Appendix 2.7. Commodity indices 1910-1920 (1913=100) continued.

	Misc fish	Fish oil, supreme	Fish	Coffee	Coffee, Java	Coffe, Guate- mala	Coffee, Santos	Rafinade	Sugar, crushed	Sugar, farin
1910	93.8	92.0	87.1	80.5	79.6	76.8	76.3	106.2	106.4	104.7
1911	87.2	96.9	84.2	92.3	93.4	90.1	89.5	106.8	106.9	105.5
1912	86.5	85.7	88.9	101.9	100.3	100.4	100.0	113.6	112.1	112.7
1913	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1914	102.1	93.9	100.8	97.7	97.9	96.6	95.0	105.1	101.7	103.6
1915	136.7	182.6	139.4	100.8	101.7	101.1	96.7	118.6	117.2	114.5
1916	224.4	374.9	222.7	105.7	106.6	104.6	99.6	164.4	169.0	161.8
1917	216.8	423.9	215.7	137.9	135.3	137.0	129.3	230.5	222.4	200.0
1918	226.7	406.2	223.6	155.2	167.5	163.4	133.9	257.6	250.0	220.0
1919	294.8	370.1	255.4	171.3	177.2	178.6	159.8	262.7	313.8	223.6
1920	275.0	419.8	258.6	195.8	192.0	196.6	189.5	339.0	324.1	340.0

Appendix 2.7. Commodity indices 1910-1920 (1913=100) continued.

	Sugar	Syrup	Choco- late	Choko- late, dark	Cocoa bean	Salt	Spices	Colon- ial goods	Food	Beer
1910	105.6	100.0	96.7	96.4	96.6	86.7	84.2	91.4	91.7	96.4
1911	106.2	98.1	97.3	97.0	97.2	83.9	80.8	95.8	92.7	97.9
1912	112.4	100.0	98.9	98.8	98.9	98.7	98.5	103.7	98.4	99.4
1913	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1914	102.7	100.0	103.8	104.1	106.1	95.8	95.0	99.9	104.7	100.0
1915	115.9	161.8	116.8	118.4	122.3	155.6	166.2	119.5	133.4	104.1
1916	165.5	172.2	127.7	130.2	136.7	227.3	251.5	148.8	172.6	124.7
1917	211.5	212.0	159.8	165.2	175.5	428.8	476.2	212.8	234.5	126.6
1918	235.4	233.0	225.0	236.2	253.8	496.0	523.8	247.0	294.4	128.8
1919	269.9	237.0	209.8	230.2	246.6	360.4	410.0	241.8	307.0	173.9
1920	331.9	360.0	205.4	236.1	251.9	491.1	470.4	289.9	326.7	253.4

Appendix 2.7. Commodity indices 1910-1920 (1913=100) continued.

	Malt	Tobacco	Bever- ages & tobacco	Hides	Calf skin	Goat skin	Cotton prod- ucts	Wool	Woollen prod- ucts	Linen
1910	88.8	97.9	96.2	84.5	77.8	92.7	100.0	91.8	96.2	74.8
1911	101.3	98.7	98.5	87.6	82.7	90.5	100.0	91.8	95.1	81.1
1912	108.6	99.3	100.3	95.7	91.5	89.7	100.0	98.4	99.1	90.6
1913	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1914	114.7	100.0	101.5	113.2	89.4	95.8	101.3	101.7	100.2	114.2
1915	140.2	105.3	108.1	175.5	101.4	114.3	110.4	157.4	120.0	147.2
1916	217.2	113.6	130.1	175.1	142.9	153.8	145.5	196.8	129.5	200.7
1917	304.8	148.3	152.0	266.6	158.2	187.2	205.0	209.9	251.7	254.2
1918	342.9	141.4	154.6	276.8	157.7	205.1	306.1	327.9	253.9	296.9
1919	304.8	168.1	185.0	250.4	189.6	270.5	312.2	360.6	303.9	247.9
1920	342.9	220.8	250.9	246.9	243.3	408.5	406.3	327.6	378.5	295.2

Appendix 2.7. Commodity indices 1910-1920 (1913=100) continued.

	Linen prod- ucts	Textiles	Cloth- ing & footwear	Oil, sup- reme	Oil, second- ary	Coal	Coke	Pine wood	Birch wood	Spruce wood
1910	72.4	97.1	92.1	89.1	82.3	186.4	183.3	99.0	92.2	84.4
1911	79.3	96.7	92.9	77.7	71.7	74.7	74.4	99.4	98.7	84.6
1912	89.7	96.9	96.7	86.4	82.6	92.9	95.0	100.0	99.3	93.0
1913	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1914	115.5	99.5	102.4	94.2	96.7	92.5	100.0	100.7	107.9	110.9
1915	151.7	119.6	128.8	99.0	100.0	180.8	142.2	109.4	116.2	110.9
1916	210.3	147.1	159.9	134.0	140.2	242.2	213.9	117.8	129.1	123.2
1917	268.9	222.4	226.3	165.0	176.1	547.1	490.6	152.1	163.9	143.1
1918	315.7	284.5	284.1	211.7	227.2	615.3	592.8	228.0	238.2	214.6
1919	262.0	317.6	302.9	181.6	198.9	435.7	395.6	287.3	324.1	270.5
1920	313.8	376.0	357.5	238.8	260.9	645.8	700.0	301.0	344.5	283.3

Appendix 2.7. Commodity indices 1910-1920 (1913=100) continued.

	Misc wood	Fish oil	Tallow	Fuel & lighting	Rent	Timber	Saw timber	Maintenance	Housing	Cod liver oil, supreme
1910	95.3	100.4	102.9	110.7	88.9	101.1	81.2	94.7	90.2	91.1
1911	97.2	117.7	100.6	89.7	90.7	97.4	95.6	95.8	92.6	96.6
1912	97.7	83.8	102.3	95.4	96.4	93.2	99.4	94.7	96.1	84.2
1913	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1914	105.5	91.2	93.9	102.6	101.0	105.2	115.4	107.9	103.9	93.3
1915	114.6	280.2	131.0	126.0	105.2	139.6	126.2	134.2	115.1	191.0
1916	123.3	662.0	184.0	164.3	111.5	161.7	161.7	161.7	129.1	402.8
1917	157.9	735.9	254.6	249.6	114.7	215.5	222.5	218.7	151.2	456.7
1918	233.3	650.0	304.4	318.4	115.7	227.8	260.2	240.4	160.1	437.2
1919	304.9	600.0	293.3	318.0	123.1	281.7	306.2	284.2	181.5	397.5
1920	321.7	650.0	324.5	391.3	154.7	404.1	337.5	387.7	232.9	452.2

Appendix 2.7. Commodity indices 1910-1920 (1913=100) continued.

	Soap	Cleanser	Natural ice	Medical care & health	Transport, tram	Transport, train	Hotel	Transport & hotel	General
1910	71.8	77.7	212.1	86.8	102.0	98.4	96.8	99.1	93.1
1911	74.9	81.4	88.6	81.6	104.5	101.8	95.0	101.3	92.7
1912	84.6	84.5	85.1	84.5	101.0	99.7	94.3	99.0	97.2
1913	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1914	95.4	94.7	77.7	93.6	93.6	98.5	103.7	98.1	103.3
1915	99.5	127.2	77.7	122.5	95.3	106.6	127.4	107.4	126.8
1916	136.9	217.4	117.6	206.8	95.1	112.6	143.9	113.6	159.7
1917	170.3	256.9	117.6	243.3	98.1	129.1	179.8	129.9	213.5
1918	219.0	285.0	188.2	275.3	154.9	163.0	213.9	170.8	261.7
1919	189.7	252.6	282.4	251.9	179.1	204.2	242.7	204.4	276.2
1920	249.2	310.7	541.2	324.1	197.3	242.3	310.5	242.5	315.1

Appendix 3.1. Expenditure group indices 1492-1665 (1600=100).

	Grain	Food	General		Grain	Food	General		Grain	Food	General
1492	17.2	17.2	17.2	1550	51.5	51.5	51.5	1608	132.8	132.8	132.8
1493	17.4	17.4	17.4	1551	51.1	51.1	51.1	1609	123.8	123.8	123.8
1494	17.6	17.6	17.6	1552	50.7	50.7	50.7	1610	130.5	130.5	130.5
1495	17.7	17.7	17.7	1553	46.1	46.1	46.1	1611	125.8	125.8	125.8
1496	17.9	17.9	17.9	1554	47.7	47.7	47.7	1612	142.3	142.3	142.3
1497	18.1	18.1	18.1	1555	58.4	58.4	58.4	1613	130.4	130.4	130.4
1498	18.3	18.3	18.3	1556	58.0	58.0	58.0	1614	106.3	106.3	106.3
1499	18.5	18.5	18.5	1557	58.3	58.3	58.3	1615	127.7	127.7	127.7
1500	18.7	18.7	18.7	1558	57.9	57.9	57.9	1616	125.8	125.8	125.8
1501	18.9	18.9	18.9	1559	49.9	49.9	49.9	1617	148.4	148.4	148.4
1502	19.1	19.1	19.1	1560	46.8	46.8	46.8	1618	153.7	153.7	153.7
1503	19.3	19.3	19.3	1561	49.3	49.3	49.3	1619	158.9	158.9	158.9
1504	19.4	19.4	19.4	1562	55.3	55.3	55.3	1620	136.0	136.0	136.0
1505	19.6	19.6	19.6	1563	58.5	58.5	58.5	1621	149.4	149.4	149.4
1506	19.8	19.8	19.8	1564	56.3	56.3	56.3	1622	194.0	194.0	194.0
1507	20.5	20.5	20.5	1565	58.7	58.7	58.7	1623	240.4	240.4	240.4
1508	21.2	21.2	21.2	1566	69.3	69.3	69.3	1624	298.0	298.0	298.0
1509	21.9	21.9	21.9	1567	61.0	61.0	61.0	1625	208.2	208.2	208.2
1510	22.7	22.7	22.7	1568	61.1	61.1	61.1	1626	192.2	192.2	192.2
1511	23.2	23.2	23.2	1569	63.3	63.3	63.3	1627	175.1	175.1	175.1
1512	23.8	23.8	23.8	1570	65.6	65.6	65.6	1628	229.2	229.2	229.2
1513	24.5	24.5	24.5	1571	66.7	66.7	66.7	1629	321.9	321.9	321.9
1514	22.8	22.8	22.8	1572	74.3	74.3	74.3	1630	309.8	309.8	309.8
1515	23.3	23.3	23.3	1573	70.5	70.5	70.5	1631	238.4	238.4	238.4
1516	23.8	23.8	23.8	1574	65.6	65.6	65.6	1632	191.0	191.0	191.0
1517	24.1	24.1	24.1	1575	69.3	69.3	69.3	1633	196.0	196.0	196.0
1518	24.5	24.5	24.5	1576	67.6	67.6	67.6	1634	202.4	202.4	202.4
1519	22.7	22.7	22.7	1577	72.5	72.5	72.5	1635	169.1	169.1	169.1
1520	23.0	23.0	23.0	1578	61.7	61.7	61.7	1636	209.4	209.4	209.4
1521	23.4	23.4	23.4	1579	68.8	68.8	68.8	1637	211.2	211.2	211.2
1522	23.8	23.8	23.8	1580	75.0	75.0	75.0	1638	192.8	192.8	192.8
1523	24.1	24.1	24.1	1581	76.6	76.6	76.6	1639	189.3	189.3	189.3
1524	24.6	24.6	24.6	1582	77.1	77.1	77.1	1640	201.9	201.9	201.9
1525	24.7	24.7	24.7	1583	74.2	74.2	74.2	1641	206.1	206.1	206.1
1526	25.6	25.6	25.6	1584	79.1	79.1	79.1	1642	197.4	197.4	197.4
1527	26.5	26.5	26.5	1585	77.5	77.5	77.5	1643	201.6	201.6	201.6
1528	28.0	28.0	28.0	1586	84.1	84.1	84.1	1644	204.3	204.3	204.3
1529	29.7	29.7	29.7	1587	83.4	83.4	83.4	1645	168.6	168.6	168.6
1530	30.3	30.3	30.3	1588	76.6	76.6	76.6	1646	181.9	181.9	181.9
1531	30.9	30.9	30.9	1589	84.6	84.6	84.6	1647	172.1	172.1	172.1
1532	31.3	31.3	31.3	1590	112.9	112.9	112.9	1648	209.5	209.5	209.5
1533	30.3	30.3	30.3	1591	115.0	115.0	115.0	1649	262.8	262.8	262.8
1534	29.3	29.3	29.3	1592	117.1	117.1	117.1	1650	263.8	263.8	263.8
1535	28.5	28.5	28.5	1593	119.2	119.2	119.2	1651	240.0	240.0	240.0
1536	27.7	27.7	27.7	1594	121.3	121.3	121.3	1652	276.2	276.2	276.2
1537	27.0	27.0	27.0	1595	123.4	123.4	123.4	1653	180.6	180.6	180.6
1538	26.3	26.3	26.3	1596	125.5	125.5	125.5	1654	146.4	146.4	146.4
1539	26.9	26.9	26.9	1597	114.2	114.2	114.2	1655	169.0	169.0	169.0
1540	31.6	31.6	31.6	1598	116.2	116.2	116.2	1656	199.5	199.5	199.5
1541	33.8	33.8	33.8	1599	108.6	108.6	108.6	1657	201.6	201.6	201.6
1542	36.6	36.6	36.6	1600	100.0	100.0	100.0	1658	148.8	148.8	148.8
1543	39.9	39.9	39.9	1601	119.0	119.0	119.0	1659	189.8	189.8	189.8
1544	43.7	43.7	43.7	1602	138.1	138.1	138.1	1660	306.2	306.2	306.2
1545	47.6	47.6	47.6	1603	130.9	130.9	130.9	1661	371.8	371.8	371.8
1546	49.1	49.1	49.1	1604	94.4	94.4	94.4	1662	295.1	295.1	295.1
1547	48.6	48.6	48.6	1605	108.6	108.6	108.6	1663	177.5	177.5	177.5
1548	48.2	48.2	48.2	1606	89.6	89.6	89.6	1664	176.4	176.4	176.4
1549	47.7	47.7	47.7	1607	91.8	91.8	91.8	1665	194.5	194.5	194.5

Appendix 3.2. Expenditure group indices 1665-1736 (1688=100).

	Grain	Flour & bread	Vegetables, fruits & berries	Fish	Colonial goods	Food	Beverages & tobacco	Clothing & footwear	General
1665	97.4	84.4	92.9	107.0	73.3	94.6	82.0	116.7	98.4
1666	94.9	75.0	87.9	105.8	71.8	90.5	80.8	116.7	95.2
1667	89.9	56.3	78.1	107.4	71.8	83.6	78.3	125.0	91.6
1668	78.1	75.0	89.6	111.2	102.6	88.5	82.0	125.0	100.3
1669	78.8	68.6	75.2	101.9	164.1	87.7	72.7	125.0	94.4
1670	77.7	68.6	74.5	101.3	106.6	83.3	72.2	125.0	91.1
1671	82.9	87.5	84.5	99.8	100.0	89.9	74.8	116.7	94.5
1672	98.9	75.0	90.5	105.7	117.9	95.1	82.8	112.5	97.9
1673	96.6	76.5	89.6	106.6	139.2	96.3	81.6	116.7	99.6
1674	125.9	86.2	112.1	121.3	117.9	112.7	96.3	116.7	112.6
1675	120.6	87.5	109.0	118.6	100.0	109.1	93.6	116.7	109.8
1676	104.3	85.9	97.9	110.5	85.2	99.4	85.5	116.7	102.1
1677	124.2	75.0	106.9	110.0	82.1	103.3	95.4	95.8	101.4
1678	131.0	75.0	111.4	117.6	78.2	107.7	98.8	104.2	106.5
1679	123.2	62.5	102.0	115.8	71.8	100.2	94.9	108.3	101.6
1680	90.9	62.5	81.0	95.5	71.8	82.6	78.8	100.0	85.9
1681	73.2	72.4	72.9	86.6	71.8	76.4	69.9	100.0	80.8
1682	77.5	75.0	76.6	88.7	71.8	79.4	72.1	100.0	83.1
1683	81.7	92.6	85.5	90.8	69.8	86.5	74.2	100.0	88.6
1684	119.9	93.7	110.7	109.9	65.4	106.0	93.3	100.0	104.2
1685	94.8	75.0	87.9	97.4	75.7	88.5	80.7	100.0	90.4
1686	89.4	75.0	84.4	101.0	88.5	88.2	78.0	112.5	92.6
1687	91.2	93.7	92.1	103.9	87.2	95.0	78.9	116.7	98.6
1688	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1689	96.0	93.7	95.2	104.7	130.8	100.0	81.4	113.3	101.7
1690	94.0	68.6	85.1	107.0	133.3	92.7	80.3	120.0	97.5
1691	81.9	87.5	83.9	103.5	123.1	92.0	74.3	125.0	97.7
1692	85.2	87.5	86.0	110.2	128.2	95.4	75.9	135.3	102.4
1693	132.6	112.5	125.5	133.9	112.8	125.8	99.6	135.3	126.4
1694	130.6	125.0	128.6	115.3	117.9	124.1	98.6	100.0	118.0
1695	118.0	131.2	122.6	121.6	117.9	122.8	92.3	125.2	121.7
1696	148.5	177.7	158.7	131.4	123.1	150.7	107.6	114.3	141.3
1697	168.0	255.7	198.7	177.8	119.2	192.8	117.3	187.5	188.0
1698	184.4	300.0	224.9	186.0	123.1	214.3	125.5	187.5	204.5
1699	133.0	173.0	147.0	149.8	102.6	147.1	99.8	166.7	148.6
1700	110.1	216.7	147.4	138.4	123.1	149.4	88.4	166.7	149.8
1701	92.2	137.5	108.0	112.8	102.6	111.5	79.4	133.3	114.3
1702	99.3	142.6	113.3	118.4	102.6	117.1	83.0	137.5	119.5
1703	103.9	119.1	109.2	112.1	102.6	110.4	85.3	120.3	111.1
1704	100.7	152.7	118.9	100.4	102.6	115.8	83.7	100.0	111.1
1705	109.3	139.9	120.0	117.1	92.3	119.1	88.0	125.0	118.7
1706	108.6	133.2	117.2	116.8	92.3	116.8	87.6	125.0	117.0
1707	123.0	129.1	125.1	121.6	92.3	122.4	94.8	120.3	120.6
1708	146.0	125.0	138.7	139.7	92.3	134.7	106.4	133.3	133.0
1709	195.0	125.0	170.5	173.8	82.1	161.5	130.8	152.6	158.2
1710	124.3	111.8	119.9	124.6	92.3	118.6	95.5	125.0	118.7
1711	101.8	114.7	106.3	107.1	86.7	106.0	84.2	112.5	106.2
1712	99.0	114.7	104.5	116.2	86.7	107.3	82.8	133.3	111.3
1713	88.4	114.7	97.6	106.7	86.7	100.8	77.5	125.0	104.5
1714	115.2	114.7	115.0	120.1	86.7	114.5	90.9	125.0	115.4
1715	74.2	114.7	88.4	112.1	86.7	96.9	70.5	150.0	106.2
1716	71.6	114.7	86.7	113.9	86.7	96.4	69.2	156.3	107.0
1717	122.9	101.4	115.4	134.4	86.7	117.3	94.8	145.8	121.9
1718	170.0	140.2	159.6	210.0	86.7	166.5	118.3	250.0	180.8
1719	146.0	120.5	137.1	163.2	86.7	139.2	106.3	180.3	145.8

Appendix 3.2. Expenditure group indices 1665-1736 (1688=100) continued.

	Grain	Flour & bread	Vegetables, fruits & berries	Fish	Colonial goods	Food	Beverages & tobacco	Clothing & footwear	General
1720	82.8	68.3	77.8	144.2	86.7	95.2	74.7	205.6	116.3
1721	72.9	60.2	68.5	140.2	86.7	88.1	69.8	207.4	111.0
1722	75.0	61.9	70.4	120.2	86.7	84.0	70.8	165.4	99.6
1723	87.2	72.0	81.9	133.8	86.7	95.2	77.0	180.3	111.3
1724	90.9	75.0	85.3	135.6	86.7	97.9	78.8	180.3	113.5
1725	87.0	71.8	81.7	126.2	80.0	92.6	76.8	165.4	106.3
1726	110.8	91.4	104.0	113.7	80.0	103.9	88.7	116.7	105.7
1727	96.7	79.8	90.8	135.1	80.0	100.9	81.7	173.5	114.5
1728	76.3	63.0	71.6	118.0	86.7	84.2	71.5	159.6	98.7
1729	63.8	52.6	59.9	129.3	86.7	79.6	65.2	194.8	101.9
1730	69.2	57.1	65.0	113.2	86.7	78.6	67.9	157.1	93.8
1731	73.6	60.7	69.1	99.4	86.7	77.6	70.1	125.3	86.8
1732	86.5	71.3	81.2	106.6	86.7	87.5	76.6	126.7	94.8
1733	87.3	72.0	81.9	107.0	86.7	88.0	77.0	126.7	95.2
1734	98.8	81.5	92.8	112.8	86.7	96.7	82.8	126.7	102.0
1735	99.5	82.0	93.4	109.7	80.0	95.8	83.1	120.0	100.0
1736	85.5	70.5	80.2	106.1	86.7	86.7	76.1	126.7	94.2

Appendix 3.3. Expenditure group indices 1736-1816 (1750=100).

	Grain	Flour & bread	Vegetables, fruits & berries	Dairy products	Meat	Fish	Colonial goods	Food
1736	85.7	85.1	86.5	98.5	74.4	93.2	102.7	87.5
1737	85.2	91.0	82.9	101.1	76.3	97.1	102.6	89.8
1738	90.9	93.7	86.3	101.1	79.0	92.9	100.6	91.1
1739	84.4	91.8	78.4	89.9	78.1	99.3	97.1	88.7
1740	123.8	126.0	112.2	112.3	89.6	110.6	104.3	111.9
1741	153.2	157.2	178.9	129.6	98.4	107.4	125.1	132.1
1742	138.6	148.6	152.1	123.5	95.0	103.8	127.9	124.2
1743	107.3	114.6	111.4	112.3	95.3	108.0	113.1	107.9
1744	91.7	94.2	94.2	100.1	86.1	94.9	105.6	93.8
1745	91.8	89.6	89.5	103.6	86.4	93.5	103.6	92.6
1746	88.5	91.1	89.7	107.5	94.2	105.1	97.2	96.0
1747	96.0	97.8	93.2	107.3	95.0	105.2	99.0	99.1
1748	106.9	105.8	96.6	110.8	99.7	112.1	103.2	105.8
1749	123.7	116.3	114.7	108.5	104.6	118.6	111.8	114.6
1750	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1751	93.6	100.2	89.5	100.0	99.0	109.6	99.3	99.9
1752	95.1	128.5	93.2	107.3	99.5	107.7	96.7	106.3
1753	89.4	99.1	81.8	120.9	96.6	109.7	86.4	99.1
1754	98.0	114.2	104.2	101.7	101.4	115.0	105.5	106.6
1755	93.6	106.3	100.0	111.5	99.0	112.8	102.5	103.9
1756	111.5	122.1	112.6	118.5	108.6	110.6	103.9	113.1
1757	126.4	129.4	115.5	122.3	101.6	105.3	98.5	115.0
1758	142.3	126.9	143.4	114.8	106.4	106.3	99.7	119.6
1759	128.0	122.7	131.0	109.3	106.1	114.2	103.5	116.7
1760	110.1	115.3	108.4	122.3	107.2	109.9	102.3	111.1
1761	108.7	113.7	111.8	118.4	101.6	108.4	102.3	109.1
1762	118.4	116.3	129.2	118.7	104.6	119.9	99.6	115.2
1763	130.5	118.3	128.4	116.2	90.8	138.8	110.4	119.3
1764	125.4	117.5	136.3	140.5	97.3	131.2	105.2	120.6
1765	134.1	141.2	164.2	136.9	121.9	150.7	101.2	136.7
1766	141.1	144.5	150.3	122.3	129.8	149.4	99.2	137.1
1767	134.0	140.5	118.7	115.1	110.7	137.0	99.2	126.1
1768	124.2	132.2	119.4	108.1	104.2	131.9	98.7	119.9
1769	105.4	110.5	102.1	107.9	100.8	129.0	92.4	109.4
1770	105.6	107.8	104.4	121.3	105.4	134.7	103.9	113.2
1771	122.0	118.9	114.9	134.3	114.8	156.9	118.7	127.5
1772	138.1	141.8	158.3	145.9	120.2	150.5	123.5	139.2
1773	144.2	150.4	162.8	140.6	115.3	145.6	121.0	139.7
1774	121.9	126.3	147.5	111.2	108.9	144.7	114.2	125.1
1775	113.7	109.6	112.6	103.6	103.2	133.7	105.3	113.2
1776	108.6	103.9	106.5	107.1	98.0	133.0	101.9	109.8
1777	105.7	102.9	101.4	114.4	94.9	123.1	95.9	106.5
1778	110.1	108.8	103.3	133.2	103.9	124.7	102.2	112.9
1779	109.4	103.3	113.9	123.2	107.3	130.9	102.7	113.3
1780	102.9	104.3	106.8	108.2	95.6	140.4	100.0	109.9
1781	110.3	120.5	109.9	103.6	100.9	156.3	107.1	118.9
1782	133.1	127.8	128.8	121.5	111.1	169.4	131.4	133.6
1783	145.6	139.5	139.0	158.6	112.3	172.7	133.1	143.5
1784	152.9	151.1	180.1	159.9	122.7	145.1	114.7	145.3
1785	156.5	150.7	160.5	140.5	120.1	147.8	108.7	142.1
1786	163.0	154.9	163.2	142.9	126.9	151.7	111.6	146.7
1787	151.1	144.4	160.7	139.4	126.6	155.4	114.3	143.0
1788	134.8	136.3	140.5	150.6	122.9	157.6	107.2	137.5
1789	148.9	148.0	153.5	157.4	122.0	162.1	111.0	144.8
1790	164.7	168.6	162.0	138.0	116.5	166.2	123.6	151.0

Appendix 3.3. Expenditure group indices 1736-1816 (1750=100) continued.

	Beverages & tobacco	Clothing & footwear	Fuel & lighting	General
1736	91.6	98.0	89.0	89.6
1737	89.5	98.6	90.2	91.2
1738	92.7	94.1	86.7	91.3
1739	85.3	91.4	84.3	88.6
1740	96.2	87.8	86.6	105.1
1741	119.0	101.1	90.2	123.0
1742	109.8	100.8	88.1	116.7
1743	91.5	110.2	87.7	105.7
1744	81.6	115.4	87.1	96.0
1745	88.5	144.4	90.3	100.4
1746	91.1	133.8	90.2	101.3
1747	94.5	117.1	89.8	101.0
1748	100.4	122.4	91.7	107.0
1749	113.0	119.2	96.3	113.8
1750	100.0	100.0	100.0	100.0
1751	88.9	104.7	99.9	100.0
1752	92.5	107.3	103.7	105.4
1753	93.9	106.5	111.7	101.0
1754	92.1	117.4	112.1	107.9
1755	93.7	111.3	113.4	105.2
1756	99.9	112.9	114.2	112.4
1757	101.4	110.6	114.9	113.5
1758	99.1	113.7	113.0	116.9
1759	99.5	114.9	114.7	115.2
1760	96.9	117.7	110.0	111.2
1761	97.0	120.6	112.9	110.5
1762	93.9	118.0	115.3	114.4
1763	102.2	120.7	117.4	118.4
1764	102.8	110.6	116.7	117.6
1765	101.5	117.0	118.6	130.0
1766	104.7	120.8	117.2	131.0
1767	102.4	120.4	109.5	122.4
1768	103.8	121.4	115.3	118.8
1769	92.0	112.8	119.5	109.7
1770	96.5	115.0	113.9	112.5
1771	96.2	120.9	111.2	123.3
1772	102.0	120.9	109.1	131.6
1773	98.4	111.0	125.9	131.5
1774	96.1	112.5	124.7	121.3
1775	93.6	111.7	115.8	112.0
1776	90.8	110.3	116.6	109.3
1777	89.5	110.2	129.8	107.9
1778	100.5	118.4	126.5	114.1
1779	100.5	118.4	136.9	115.2
1780	102.1	117.2	124.0	111.7
1781	108.4	120.0	116.5	118.2
1782	119.3	131.0	113.5	130.7
1783	117.7	141.2	136.4	141.0
1784	119.9	145.1	143.7	143.6
1785	111.6	143.5	147.7	140.9
1786	110.1	140.6	150.4	143.9
1787	110.0	147.8	148.2	142.2
1788	105.7	138.5	160.8	137.6
1789	112.1	149.0	171.3	145.6
1790	122.6	172.7	164.0	153.8

Appendix 3.3. Expenditure group indices 1736-1816 (1750=100) continued.

	Grain	Flour & bread	Vegetables, fruits & berries	Dairy products	Meat	Fish	Colonial goods	Food
1791	142.2	153.3	146.0	127.6	110.1	149.0	116.5	136.8
1792	140.9	147.7	150.3	136.9	114.3	151.6	112.5	137.7
1793	164.9	158.7	170.6	159.1	129.2	148.8	126.5	150.9
1794	172.5	162.3	172.1	182.9	135.3	167.2	138.4	161.1
1795	187.2	174.5	192.4	192.9	164.0	173.9	157.5	176.5
1796	169.5	157.0	171.6	186.1	152.5	167.3	154.6	164.2
1797	131.1	132.2	145.5	172.9	141.7	167.1	142.0	146.5
1798	140.6	137.6	145.3	165.5	145.7	171.2	137.1	149.6
1799	195.3	176.4	189.5	182.1	145.5	196.6	160.7	178.3
1800	255.3	247.2	325.8	212.4	177.9	209.5	185.0	225.9
1801	301.4	335.2	358.4	210.0	166.4	228.9	292.2	262.9
1802	241.5	266.8	229.5	182.1	160.9	232.9	193.0	219.6
1803	264.8	282.8	288.6	202.2	168.1	246.2	162.8	234.9
1804	220.2	236.2	236.6	180.4	163.9	249.7	143.0	210.5
1805	250.6	253.5	275.3	204.5	202.7	292.2	178.3	242.6
1806	277.1	283.4	283.7	248.6	206.0	287.1	199.4	259.2
1807	270.2	256.9	297.9	299.4	203.6	268.4	200.1	254.7
1808	429.5	432.6	543.1	368.9	312.6	341.2	314.8	384.6
1809	772.6	737.3	983.2	476.6	412.0	425.3	716.9	610.6
1810	737.7	644.6	1108.4	419.6	370.9	458.1	640.7	582.8
1811	1142.7	1074.7	1270.6	1478.1	959.6	731.2	670.1	1021.7
1812	2869.9	2322.4	2402.1	2130.2	1830.8	1388.6	1552.6	2069.7
1813	7073.1	8936.9	6854.6	5940.5	6668.9	5907.5	5936.7	6927.6
1814	8787.6	12548.1	8080.8	9823.0	9517.6	8337.7	9388.5	9681.2
1815	6587.5	8402.9	6702.4	5935.3	8323.4	6911.0	7817.0	7368.5
1816	10898.8	10303.2	10815.8	11489.1	12755.2	12131.3	11260.9	11449.9

Appendix 3.3. Expenditure group indices 1736-1816 (1750=100) continued.

	Beverages & tobacco	Clothing & footwear	Fuel & lighting	General
1791	111.1	164.2	161.7	141.6
1792	119.1	166.7	146.1	141.9
1793	128.6	171.5	154.6	153.2
1794	136.0	168.5	141.7	159.2
1795	146.5	174.3	135.0	171.0
1796	137.9	168.6	140.6	161.4
1797	122.2	165.3	168.1	149.8
1798	128.4	181.8	155.7	154.0
1799	236.4	184.1	146.2	180.2
1800	253.0	219.5	153.9	220.7
1801	263.0	212.1	211.3	250.6
1802	245.5	213.4	201.8	218.7
1803	251.1	245.1	211.4	235.6
1804	212.0	224.7	184.8	210.8
1805	256.8	261.5	204.0	243.4
1806	275.2	263.1	237.6	259.1
1807	260.9	252.8	220.2	252.0
1808	408.8	407.8	308.0	383.6
1809	819.9	775.4	563.6	645.7
1810	797.1	935.5	689.3	660.6
1811	1416.8	1633.3	1031.6	1144.1
1812	2548.1	2357.2	1411.4	2091.7
1813	7386.2	7399.2	6491.3	6995.7
1814	9231.5	9302.4	9835.5	9606.0
1815	7690.3	7533.4	9858.6	7613.4
1816	11589.1	12965.9	15297.2	12008.6

Appendix 3.4. Expenditure group indices 1816-1830 (1825=100).

	Grain	Flour & bread	Vegetables, fruits & berries	Dairy products	Meat	Fish	Colonial goods	Food
1816	193.2	182.1	156.6	186.8	149.6	222.8	132.1	179.7
1817	388.3	328.2	290.8	217.1	184.8	390.2	177.1	300.1
1818	237.8	225.3	203.2	140.6	121.7	194.6	102.2	185.9
1819	208.3	224.1	170.7	129.5	112.1	194.5	128.7	175.9
1820	174.1	168.2	152.8	121.6	106.2	184.8	117.0	151.8
1821	149.9	134.7	127.1	115.5	111.0	179.0	116.8	136.9
1822	180.8	171.9	143.0	132.8	127.1	205.7	144.9	162.8
1823	162.0	169.7	154.0	104.6	103.8	167.0	137.0	146.4
1824	121.0	117.0	121.2	93.5	92.3	134.1	130.1	115.5
1825	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1826	131.2	122.0	120.3	95.3	68.9	119.2	97.0	110.0
1827	174.4	163.0	168.1	107.8	72.4	147.9	97.1	138.1
1828	130.9	127.2	130.8	99.8	82.2	131.4	104.3	117.2
1829	146.5	126.9	113.6	84.7	83.5	132.2	110.2	117.5
1830	140.9	130.4	129.9	92.0	86.9	129.1	113.6	119.9

Appendix 3.4. Expenditure group indices 1816-1830 (1825=100) continued.

	Beverages & tobacco	Clothing & footwear	Fuel & lighting	General
1816	177.7	173.5	213.4	182.0
1817	334.7	212.6	270.1	286.4
1818	212.6	159.4	154.9	180.7
1819	181.3	170.2	168.1	174.7
1820	148.9	163.7	152.5	153.5
1821	131.2	152.2	141.6	139.2
1822	155.5	186.5	171.2	166.7
1823	145.7	146.5	152.2	147.0
1824	118.4	109.3	135.7	116.8
1825	100.0	100.0	100.0	100.0
1826	113.6	94.5	109.2	107.8
1827	138.2	96.7	109.8	129.0
1828	113.2	98.8	106.9	113.1
1829	110.3	107.6	134.9	117.3
1830	110.0	109.5	141.1	119.8

Appendix 3.5. Expenditure group indices 1830-1871 (1850=100).

	Grain	Flour & bread	Vegetabl, fruits & berries	Dairy products	Meat	Fish	Colonial goods	Food
1830	167.0	130.4	92.4	109.5	99.5	103.1	151.2	120.7
1831	213.6	156.3	103.0	117.6	107.7	118.0	160.0	138.5
1832	154.7	144.6	102.9	110.3	108.4	119.7	167.6	128.5
1833	116.9	118.4	91.8	107.8	101.6	116.3	158.4	114.4
1834	98.3	100.7	79.8	103.0	102.8	113.9	139.5	104.3
1835	105.6	110.4	87.5	111.0	94.2	109.3	134.3	107.2
1836	112.1	109.7	91.7	115.4	121.5	105.4	140.2	113.0
1837	118.8	119.7	95.8	113.8	111.7	87.6	134.6	111.6
1838	133.2	129.4	101.3	121.7	97.0	109.2	122.5	117.3
1839	137.5	132.7	88.7	110.2	117.2	117.8	122.5	119.0
1840	126.8	118.2	86.5	105.1	114.1	135.9	116.1	115.1
1841	103.7	93.9	81.8	91.1	92.2	118.6	106.0	97.6
1842	105.9	102.6	86.7	83.9	80.6	110.0	94.4	94.9
1843	105.1	100.3	84.8	93.1	74.3	115.9	90.0	95.4
1844	105.7	95.0	77.6	97.2	84.0	114.7	89.8	95.6
1845	101.7	91.8	81.8	99.8	99.3	121.3	101.6	99.6
1846	125.5	115.9	97.4	99.0	89.4	99.5	98.0	104.2
1847	166.2	155.8	125.4	111.5	104.7	95.2	101.1	124.6
1848	120.6	114.3	99.8	106.8	113.1	98.9	100.0	108.4
1849	103.9	106.9	92.7	105.0	99.2	116.3	98.6	104.1
1850	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1851	107.9	107.5	91.4	106.1	97.6	84.8	97.5	100.0
1852	118.6	117.0	108.5	106.9	112.1	86.8	92.8	107.2
1853	128.4	123.2	106.1	107.8	107.1	80.0	101.7	108.7
1854	143.7	134.4	102.1	113.5	127.8	94.1	106.8	118.9
1855	150.2	155.6	128.3	108.8	127.5	100.5	110.7	127.3
1856	168.8	168.4	142.0	117.6	139.4	109.5	119.0	139.0
1857	148.6	135.8	132.5	119.6	149.3	125.6	130.7	134.0
1858	128.9	112.8	116.7	108.0	138.5	121.6	123.1	120.2
1859	127.3	111.4	114.8	112.5	132.9	117.6	120.3	118.7
1860	141.9	123.2	126.3	111.6	115.8	133.6	124.1	124.2
1861	148.4	142.6	142.6	112.6	127.4	133.0	125.1	132.6
1862	142.0	137.8	127.3	110.2	132.5	141.5	129.5	131.0
1863	126.7	120.1	121.7	105.9	125.8	150.1	128.3	124.2
1864	119.4	108.2	116.8	107.4	124.8	143.0	128.6	119.5
1865	126.3	105.8	112.3	110.9	112.1	142.8	125.2	117.9
1866	132.2	125.6	123.3	116.3	128.5	125.4	121.8	124.4
1867	146.8	140.2	141.3	119.5	129.4	127.9	118.0	131.9
1868	166.4	161.3	161.4	117.2	141.3	118.1	117.1	140.7
1869	149.8	134.6	132.3	119.8	141.1	147.0	119.3	134.7
1870	129.2	116.4	124.5	121.8	139.0	147.2	122.1	127.9
1871	128.4	123.6	111.3	115.2	134.4	156.1	127.6	127.7

Appendix 3.5. Expenditure group indices 1830-1871 (1850=100) continued.

	Beverages & tobacco	Clothing & footwear	Fuel & lighting	General
1830	105.6	120.1	122.7	119.9
1831	125.8	123.9	131.4	134.1
1832	120.9	122.9	132.4	127.3
1833	101.3	116.9	121.5	114.8
1834	97.4	115.7	110.9	106.9
1835	95.5	116.2	104.2	108.0
1836	102.0	114.0	113.4	112.6
1837	108.6	114.7	120.4	112.9
1838	107.8	110.5	114.9	115.1
1839	112.4	112.1	112.4	116.6
1840	96.1	117.3	107.7	113.7
1841	88.3	100.2	97.8	97.6
1842	81.5	92.0	98.3	93.9
1843	86.1	98.5	94.3	95.4
1844	81.9	96.8	99.0	95.4
1845	86.7	97.7	106.7	99.1
1846	101.6	103.7	111.6	104.7
1847	115.3	105.9	119.4	119.8
1848	105.0	106.8	110.2	108.1
1849	100.4	106.5	104.8	104.4
1850	100.0	100.0	100.0	100.0
1851	111.3	103.6	98.5	101.3
1852	107.5	97.4	106.0	105.1
1853	111.2	101.1	113.5	107.8
1854	117.3	114.1	128.5	118.8
1855	131.9	118.4	126.8	125.7
1856	142.6	115.6	136.4	134.3
1857	169.3	117.2	133.5	132.7
1858	169.8	103.0	113.7	119.1
1859	171.2	103.7	114.4	118.4
1860	174.8	115.5	120.0	125.1
1861	191.1	114.4	117.4	130.9
1862	185.8	118.5	110.5	129.7
1863	184.2	125.7	113.3	127.0
1864	184.5	134.3	107.8	125.2
1865	185.8	128.0	104.5	122.7
1866	186.3	134.1	111.3	128.8
1867	179.1	129.9	116.8	132.8
1868	194.1	129.2	109.7	138.5
1869	189.7	123.1	104.9	132.7
1870	165.2	122.2	101.6	126.4
1871	174.3	120.7	106.4	127.0

Appendix 3.6. Expenditure group indices 1871-1910 (1895=100).

	Grain	Flour & bread	Vegetables, fruits & berries	Dairy products	Meat	Fish	Colonial goods	Food
1871	138.5	137.7	109.2	113.1	106.7	119.0	140.1	121.6
1872	135.9	135.0	115.8	115.8	105.7	114.6	143.5	121.7
1873	140.5	157.3	121.5	119.1	114.8	123.6	146.0	130.4
1874	151.6	158.5	138.1	132.0	126.7	124.1	148.5	138.4
1875	148.1	151.8	146.4	136.5	131.5	118.1	143.5	138.1
1876	143.3	144.6	124.0	133.8	132.3	127.0	144.8	135.3
1877	147.4	152.6	132.0	142.1	126.4	120.1	144.5	137.7
1878	144.0	147.5	122.1	127.6	116.2	110.6	141.8	128.8
1879	128.6	140.9	105.7	115.7	105.6	100.7	139.5	118.6
1880	139.8	148.8	128.6	116.5	109.8	100.7	138.3	123.8
1881	148.4	150.2	127.2	119.8	115.1	112.2	137.9	128.0
1882	139.1	147.8	121.9	122.9	126.3	126.4	134.6	130.7
1883	130.3	141.0	125.6	117.9	121.2	146.1	138.4	130.7
1884	126.4	135.4	111.7	117.9	112.3	127.2	136.3	123.4
1885	120.6	125.0	113.1	114.0	107.7	109.5	127.8	116.0
1886	113.9	118.4	95.1	107.8	102.6	101.6	124.7	108.8
1887	106.3	113.3	89.0	102.1	103.0	97.6	125.2	104.8
1888	103.8	109.7	102.5	105.0	100.5	94.7	125.4	105.2
1889	110.6	113.0	96.4	109.4	100.5	96.7	131.0	107.6
1890	117.6	120.7	101.5	108.2	107.2	99.3	123.3	110.4
1891	124.0	130.3	127.0	108.0	101.5	117.6	119.4	116.6
1892	133.0	139.3	134.6	110.4	102.0	96.4	109.6	116.1
1893	116.4	117.4	102.2	108.2	112.8	90.2	108.0	107.8
1894	106.5	108.0	102.8	105.9	107.5	92.9	104.1	104.0
1895	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1896	100.8	99.2	107.4	100.3	94.3	112.0	99.7	101.7
1897	104.2	99.1	103.3	101.8	101.9	100.9	95.1	100.9
1898	112.3	110.1	114.2	101.4	116.2	102.0	90.8	106.4
1899	114.1	111.8	117.8	107.9	122.3	124.3	92.4	113.4
1900	116.0	116.8	122.4	110.0	130.8	149.5	93.5	120.7
1901	112.9	122.8	120.0	114.2	139.8	136.2	92.6	121.5
1902	113.5	124.9	124.0	115.1	135.2	139.2	89.9	122.0
1903	116.2	128.6	120.6	117.7	137.2	158.6	88.4	126.4
1904	113.9	126.2	123.9	113.0	129.9	158.5	92.2	124.2
1905	116.6	122.0	119.2	114.0	134.7	181.0	96.9	128.2
1906	116.5	112.7	109.3	115.2	140.2	177.5	95.4	126.0
1907	125.3	118.4	130.7	119.6	138.1	175.3	98.5	130.5
1908	135.2	131.5	138.2	115.4	134.1	157.7	97.1	129.8
1909	127.5	119.7	136.2	119.1	132.0	143.0	90.4	124.5
1910	126.4	111.5	139.6	122.7	137.7	161.3	96.5	128.5

Appendix 3.6. Expenditure group indices 1871-1910 (1895=100) continued.

	Beverages & tobacco	Clothing & footwear	Fuel & lighting	Housing	Medical care & health	Travel & transport	General
1871	72.1	123.5	125.4	60.2	180.2	158.9	114.8
1872	70.6	143.8	148.8	65.4	178.1	161.8	120.7
1873	72.9	139.3	146.0	67.7	178.5	160.1	124.5
1874	75.5	138.5	163.6	75.5	176.2	171.3	131.3
1875	80.5	136.9	150.1	77.8	175.8	122.1	128.4
1876	81.0	132.3	143.9	82.8	171.3	128.1	126.7
1877	81.3	123.1	149.8	83.1	164.9	138.5	127.0
1878	80.5	118.5	131.5	87.1	158.1	148.7	121.2
1879	77.0	116.1	111.5	81.2	151.3	152.4	113.2
1880	79.9	119.6	113.5	78.8	145.0	137.6	115.5
1881	79.0	112.3	122.1	80.5	148.6	136.6	117.3
1882	87.3	109.9	121.9	81.6	152.7	131.0	118.6
1883	84.5	112.0	118.5	80.3	138.8	131.0	118.0
1884	82.9	115.1	120.0	76.5	132.2	129.2	114.0
1885	86.9	110.1	113.5	81.4	117.3	124.4	109.2
1886	86.9	111.5	108.1	77.8	114.6	126.3	104.7
1887	86.1	106.6	103.6	80.5	112.6	127.2	102.0
1888	92.8	108.3	100.3	79.5	96.8	126.3	101.7
1889	93.7	109.1	105.2	79.5	101.1	121.6	103.4
1890	91.5	109.4	110.5	83.3	105.3	119.7	105.8
1891	93.2	106.7	111.9	87.8	101.0	118.8	109.2
1892	92.7	103.6	108.6	90.6	102.6	112.3	108.3
1893	93.7	96.6	108.4	97.2	99.3	101.0	103.4
1894	92.5	94.1	102.8	95.8	99.5	100.0	100.4
1895	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1896	104.2	100.8	100.5	104.7	99.7	101.0	101.9
1897	102.2	94.1	99.2	106.4	95.6	105.6	100.5
1898	103.4	94.4	105.7	112.4	109.2	102.3	105.1
1899	102.0	98.2	119.5	114.5	99.2	102.3	110.2
1900	101.7	109.1	122.8	106.7	103.7	105.1	115.1
1901	102.3	103.8	116.0	104.4	102.6	103.2	113.7
1902	110.6	101.5	116.9	105.2	104.3	99.0	113.9
1903	109.9	102.8	116.3	103.8	104.0	97.9	116.0
1904	109.8	107.4	115.8	99.2	102.4	101.9	115.0
1905	109.8	113.9	113.9	95.2	97.2	99.8	117.2
1906	109.6	118.8	117.8	100.4	102.9	101.2	118.2
1907	112.0	116.6	129.3	98.4	104.0	105.2	120.9
1908	117.6	107.9	140.8	100.0	108.6	103.4	120.3
1909	117.8	112.3	133.3	100.9	100.8	104.3	117.8
1910	121.1	113.6	130.8	106.7	109.3	105.6	121.1

Appendix 3.7. Expenditure group indices 1910-1920 (1913=100).

	Grain	Flour & bread	Vegetables, fruits & berries	Dairy products	Meat	Fish	Colonial goods	Food
1910	89.9	90.8	106.2	93.0	86.3	87.1	91.4	91.7
1911	96.9	95.8	111.7	92.1	83.1	84.2	95.8	92.7
1912	111.0	102.3	111.1	96.9	88.9	88.9	103.7	98.4
1913	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1914	117.6	113.6	111.6	100.4	100.8	100.8	99.9	104.7
1915	172.2	154.0	168.1	117.8	115.0	139.4	119.5	133.4
1916	174.2	164.4	196.3	153.9	186.8	222.7	148.8	172.6
1917	300.8	278.9	254.2	203.1	239.4	215.7	212.8	234.5
1918	351.3	311.2	308.4	275.4	358.6	223.6	247.0	294.4
1919	316.9	273.6	291.4	322.8	387.7	255.4	241.8	307.0
1920	373.5	331.9	288.9	344.1	355.6	258.6	289.9	326.7

Appendix 3.7. Expenditure group indices 1910-1920 (1913=100) continued.

	Beverages & tobacco	Clothing & food	Fuel & lighting	Household	Medical care & health	Travel & transport	General
1910	96.2	92.1	110.7	90.2	86.8	99.1	93.1
1911	98.5	92.9	89.7	92.6	81.6	101.3	92.7
1912	100.3	96.7	95.4	96.1	84.5	99.0	97.2
1913	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1914	101.5	102.4	102.6	103.9	93.6	98.1	103.3
1915	108.1	128.8	126.0	115.1	122.5	107.4	126.8
1916	130.1	159.9	164.3	129.1	206.8	113.6	159.7
1917	152.0	226.3	249.6	151.2	243.3	129.9	213.5
1918	154.6	284.1	318.4	160.1	275.3	170.8	261.7
1919	185.0	302.9	318.0	181.5	251.9	204.4	276.2
1920	250.9	357.5	391.3	232.9	324.1	242.5	315.1

Appendix 3.8. Expenditure group indices 1920-1959 (1939=100).

	Food	Beverages & tobacco	Fuel	Gas & electri- city	Clothing	Rent	Misc	General
1920	191.4	148.0	397.2	146.5	200.4	83.6	120.2	167.4
1921	177.0	143.2	263.1	154.7	179.5	90.3	124.6	154.6
1922	138.6	119.4	150.2	133.2	150.9	94.2	112.8	128.9
1923	130.2	112.9	139.2	120.6	137.8	96.5	107.6	121.7
1924	150.0	123.6	156.1	117.4	143.8	98.1	110.2	133.4
1925	152.9	126.4	133.8	115.8	150.0	100.0	113.2	135.7
1926	117.6	107.5	119.8	113.3	125.0	100.0	108.7	115.0
1927	102.9	97.7	103.1	113.3	104.2	100.9	102.6	103.8
1928	100.0	95.5	89.2	109.1	100.0	100.0	96.6	100.0
1929	94.1	90.9	86.5	107.1	97.9	98.1	96.6	95.6
1930	91.2	90.9	83.8	105.1	93.6	97.2	94.9	92.9
1931	83.8	90.9	78.4	104.0	87.2	96.3	93.2	87.9
1932	79.4	93.2	78.4	103.0	87.2	95.4	91.5	86.1
1933	77.9	93.2	73.0	102.0	87.2	93.5	91.5	85.0
1934	79.4	95.5	73.0	102.0	87.2	92.6	91.5	85.1
1935	82.4	95.5	75.7	101.0	87.2	93.5	91.5	87.0
1936	85.3	95.5	81.1	101.0	89.4	96.3	93.2	89.2
1937	94.1	97.7	97.3	101.0	95.7	98.1	96.6	95.6
1938	98.5	100.0	102.7	100.0	97.9	100.0	100.0	98.7
1939	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1940	120.6	115.9	175.7	100.0	121.3	100.0	108.5	116.6
1941	144.1	127.3	240.5	102.0	157.4	93.5	122.0	136.7
1942	150.0	129.5	281.1	102.0	178.7	92.6	132.2	145.0
1943	151.5	131.8	302.7	102.0	187.2	92.6	137.3	148.4
1944	151.5	134.1	313.5	102.0	191.5	92.6	142.4	150.3
1945	152.9	163.6	316.2	102.0	195.7	92.6	145.8	153.0
1946	154.4	202.3	302.7	102.0	204.3	92.6	154.2	156.9
1947	152.9	218.2	286.5	101.0	206.4	92.6	162.7	157.7
1948	148.5	225.0	264.9	101.0	210.6	92.6	166.1	156.6
1949	147.1	227.3	270.3	101.0	212.8	92.6	169.5	156.7
1950	160.3	238.6	270.3	101.0	221.3	92.6	174.6	165.0
1951	189.7	268.2	324.3	102.0	283.0	94.4	193.2	191.1
1952	214.7	279.5	386.5	106.1	293.6	97.2	210.2	208.3
1953	217.6	281.8	397.3	106.1	293.6	100.0	218.6	212.5
1954	235.3	279.5	397.3	110.1	295.7	105.6	223.7	221.9
1955	233.8	277.3	432.4	116.2	293.6	111.1	227.1	223.8
1956	245.6	302.3	510.8	117.2	293.6	113.9	233.9	232.3
1957	245.6	311.4	535.1	126.3	306.4	120.4	244.1	238.6
1958	264.7	313.6	510.8	128.3	312.8	126.9	252.5	250.3
1959	272.1	313.6	497.3	129.3	312.8	131.5	261.0	255.8

Appendix 3.9. Expenditure group indices 1959-1979 (1974=100).

	Food	Bever- ages & tob- acco	Cloth- ing & foot- wear	Rent. fuel & power	Furni- ture & house- hold eq- uipment	Medi- cal care & health	Travel & trans- port	Recreation & education	Misc	General
1959	47.3	49.7	52.0	48.0	52.0	43.0	47.0	50.0	44.2	48.0
1960	46.9	50.2	51.5	48.5	52.5	43.0	47.5	49.3	44.7	48.1
1961	47.8	51.7	53.0	50.0	54.0	46.0	50.0	51.0	46.4	49.3
1962	51.6	54.1	55.0	52.0	55.0	48.0	52.0	54.0	48.2	52.0
1963	52.1	57.4	56.0	54.0	56.0	52.0	53.0	56.0	49.5	53.3
1964	56.8	59.1	58.0	55.8	57.0	54.0	54.0	58.0	51.3	56.3
1965	58.7	61.7	61.3	57.8	60.0	57.0	57.0	61.0	55.1	58.7
1966	60.0	64.4	63.3	59.7	62.0	63.0	58.0	64.0	57.7	60.6
1967	62.6	66.4	65.3	62.3	65.0	67.0	61.0	65.0	60.9	63.3
1968	64.5	67.1	66.7	64.9	67.0	68.0	65.0	68.0	64.1	65.5
1969	67.1	69.1	68.0	66.9	68.0	71.0	66.0	71.0	66.7	67.5
1970	75.5	75.2	73.3	74.7	75.0	74.0	72.0	77.0	75.6	74.7
1971	80.6	83.2	77.3	79.2	78.0	81.0	78.0	82.0	79.5	79.3
1972	85.8	86.6	83.3	83.8	83.0	88.0	84.0	88.0	85.3	85.1
1973	92.3	94.6	90.7	89.6	89.0	94.0	91.0	94.0	91.0	91.4
1974	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1975	115.0	114.0	107.0	110.0	113.0	115.0	109.0	109.0	116.0	111.7
1976	125.7	125.1	116.3	121.0	122.8	127.8	119.4	117.7	124.7	122.0
1977	136.4	136.2	127.9	129.3	132.7	138.0	132.4	126.4	139.2	133.1
1978	144.4	150.1	139.6	145.8	140.0	148.2	147.9	135.2	150.8	143.9
1979	149.8	150.1	146.5	154.0	147.4	153.3	155.7	139.5	156.6	150.6

Appendix 3.10. Expenditure group indices 1979-2017 (2015=100).

	Food	Beverages & tobacco	Clothing & footwear	Housing, fuel & lighting	Furniture & household equipment	Medical care & health	Travel & transport
1979	27.5	12.3	85.8	19.8	37.2	18.4	21.9
1980	29.9	12.7	94.4	22.2	42.2	20.7	24.9
1981	34.9	16.2	105.7	25.2	47.7	22.6	28.1
1982	39.8	19.1	113.6	28.3	52.3	25.6	30.6
1983	42.9	21.3	119.5	31.1	56.5	27.3	33.4
1984	45.9	22.4	126.3	33.4	59.3	28.7	35.6
1985	48.8	23.3	135.4	35.5	62.0	30.5	37.1
1986	53.3	25.4	147.6	37.2	66.7	32.7	38.9
1987	57.4	28.3	160.9	39.9	72.6	34.6	43.3
1988	61.0	30.2	170.6	43.2	76.6	35.8	46.5
1989	62.8	31.8	175.7	45.9	78.7	37.3	48.9
1990	64.9	34.0	179.4	48.8	80.1	40.5	51.0
1991	66.1	36.6	182.8	51.0	81.7	43.3	54.0
1992	67.2	40.2	185.9	52.2	82.2	45.9	55.8
1993	66.5	41.5	190.9	53.7	83.6	47.9	58.6
1994	67.5	43.5	193.6	54.2	84.3	49.0	59.9
1995	68.5	45.6	195.2	55.7	85.0	51.2	62.4
1996	69.6	47.0	189.1	57.0	85.6	52.9	62.6
1997	71.9	50.6	188.8	58.6	86.0	54.6	64.9
1998	75.4	55.5	185.2	58.8	86.5	58.8	66.2
1999	77.5	57.2	183.7	60.1	87.6	61.6	68.1
2000	79.0	61.2	175.9	62.9	88.1	63.7	71.8
2001	77.5	63.3	174.5	67.6	88.8	65.6	73.9
2002	76.2	62.8	164.9	70.1	89.1	68.4	74.7
2003	78.7	63.6	147.3	76.2	88.3	71.0	75.5
2004	80.1	68.6	137.2	76.4	86.9	74.2	76.7
2005	81.4	70.3	130.9	77.7	86.4	76.3	80.0
2006	82.6	71.6	126.3	82.4	85.2	79.0	82.7
2007	84.8	72.7	119.8	81.7	86.8	80.9	84.2
2008	88.4	75.4	114.9	87.2	89.5	83.6	87.6
2009	92.1	79.2	111.2	88.8	92.5	86.4	88.9
2010	92.2	82.0	106.7	93.4	92.2	88.6	90.7
2011	92.2	87.2	103.6	94.3	91.6	90.6	92.9
2012	93.3	90.0	102.3	92.6	91.8	93.4	95.2
2013	94.3	93.9	100.3	97.5	92.1	95.9	96.5
2014	97.2	97.1	99.6	98.7	95.0	98.3	98.7
2015	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2016	102.6	103.3	104.9	104.5	105.3	102.0	102.5
2017	102.6	105.4	104.3	107.6	104.0	104.0	105.1

Appendix 3.10. Expenditure group indices 1979-2017 (2015=100) continued.

	Post & e- services	Culture & leisure	Education	Hotel & restaurant	Misc	General
1979	166.2	32.1	14.8	17.2	20.8	25.9
1980	176.8	35.1	15.5	18.5	24.1	28.7
1981	200.9	38.4	17.5	22.5	25.8	32.6
1982	241.2	42.4	19.2	27.1	27.8	36.3
1983	259.0	45.1	21.5	30.1	31.0	39.4
1984	267.1	47.6	23.9	31.8	32.8	41.9
1985	263.5	50.7	25.2	33.5	34.9	44.2
1986	263.8	54.5	26.3	36.4	39.2	47.4
1987	270.6	58.7	28.2	39.8	44.5	51.6
1988	272.6	62.2	31.7	42.3	48.0	55.0
1989	280.7	65.0	35.0	44.2	50.9	57.5
1990	260.2	67.8	36.8	45.8	52.8	59.9
1991	215.6	70.6	37.9	47.9	53.8	61.9
1992	204.8	72.7	39.1	49.6	53.9	63.4
1993	187.6	74.9	40.1	51.6	54.9	64.8
1994	173.4	75.9	41.7	52.1	56.5	65.7
1995	163.0	77.6	42.6	53.0	58.5	67.3
1996	160.9	78.5	44.7	54.1	59.9	68.2
1997	157.2	79.7	46.9	55.5	61.3	69.9
1998	152.2	81.1	49.5	58.0	64.6	71.5
1999	141.9	82.9	51.9	59.9	67.0	73.2
2000	136.9	84.1	54.6	61.9	68.9	75.5
2001	132.4	84.9	58.3	64.6	72.0	77.7
2002	135.1	85.8	63.2	67.3	74.1	78.7
2003	131.2	85.6	66.8	69.3	76.7	80.7
2004	126.0	85.7	70.1	70.9	77.4	81.0
2005	125.1	86.3	71.0	72.1	78.8	82.3
2006	126.7	86.8	72.6	74.4	78.0	84.2
2007	124.2	87.6	74.0	77.5	79.6	84.8
2008	118.2	88.9	75.9	81.5	82.4	88.0
2009	112.6	91.8	79.1	84.5	85.7	89.9
2010	110.2	93.9	81.4	87.1	88.4	92.1
2011	108.2	93.7	83.7	89.7	90.9	93.3
2012	101.8	94.0	88.2	92.5	94.0	93.9
2013	99.8	94.8	94.8	95.2	95.7	95.9
2014	98.9	96.7	97.9	97.6	98.1	97.9
2015	100.0	100.0	100.0	100.0	100.0	100.0
2016	104.1	104.5	103.4	103.3	101.9	103.6
2017	105.2	107.4	108.5	107.0	104.1	105.5

Appendix 4. CLI-CPI by expenditure group 1492-2017 (1913=100).

	Grain	Food	General		Grain	Fod	General		Grain	Food	General
1492	0.139	0.091	0.087	1550	0.417	0.271	0.261	1608	1.285	0.837	0.673
1493	0.141	0.092	0.088	1551	0.413	0.269	0.259	1609	1.100	0.716	0.627
1494	0.142	0.093	0.089	1552	0.410	0.267	0.257	1610	1.209	0.787	0.662
1495	0.144	0.093	0.090	1553	0.373	0.243	0.234	1611	1.569	1.022	0.638
1496	0.145	0.094	0.091	1554	0.386	0.252	0.242	1612	1.945	1.266	0.722
1497	0.147	0.095	0.092	1555	0.473	0.308	0.296	1613	2.410	1.570	0.661
1498	0.148	0.096	0.093	1556	0.469	0.306	0.294	1614	1.684	1.097	0.539
1499	0.150	0.097	0.094	1557	0.472	0.307	0.296	1615	1.554	1.012	0.648
1500	0.151	0.098	0.095	1558	0.468	0.305	0.294	1616	1.416	0.922	0.638
1501	0.153	0.099	0.096	1559	0.404	0.263	0.253	1617	1.854	1.207	0.753
1502	0.154	0.101	0.097	1560	0.378	0.246	0.237	1618	2.604	1.696	0.779
1503	0.156	0.101	0.098	1561	0.399	0.260	0.250	1619	2.506	1.632	0.806
1504	0.157	0.102	0.099	1562	0.448	0.291	0.281	1620	1.929	1.256	0.690
1505	0.159	0.103	0.100	1563	0.474	0.308	0.297	1621	1.545	1.006	0.758
1506	0.160	0.104	0.100	1564	0.456	0.297	0.286	1622	1.585	1.032	0.983
1507	0.166	0.108	0.104	1565	0.475	0.309	0.298	1623	1.637	1.066	1.219
1508	0.171	0.111	0.107	1566	0.560	0.365	0.351	1624	1.368	0.891	1.511
1509	0.177	0.115	0.111	1567	0.493	0.321	0.309	1625	1.694	1.103	1.056
1510	0.183	0.119	0.115	1568	0.494	0.322	0.310	1626	1.709	1.113	0.974
1511	0.188	0.122	0.118	1569	0.512	0.334	0.321	1627	1.560	1.016	0.888
1512	0.193	0.126	0.121	1570	0.531	0.345	0.333	1628	1.532	0.997	1.162
1513	0.198	0.129	0.124	1571	0.540	0.352	0.338	1629	1.634	1.064	1.632
1514	0.184	0.120	0.115	1572	0.601	0.391	0.377	1630	1.668	1.086	1.571
1515	0.188	0.123	0.118	1573	0.571	0.372	0.358	1631	1.597	1.040	1.209
1516	0.193	0.125	0.121	1574	0.531	0.345	0.333	1632	1.631	1.062	0.968
1517	0.195	0.127	0.122	1575	0.561	0.365	0.351	1633	1.653	1.076	0.994
1518	0.198	0.129	0.124	1576	0.547	0.356	0.343	1634	1.364	0.888	1.026
1519	0.183	0.119	0.115	1577	0.586	0.382	0.367	1635	1.471	0.958	0.857
1520	0.186	0.121	0.117	1578	0.499	0.325	0.313	1636	1.392	0.906	1.062
1521	0.189	0.123	0.119	1579	0.557	0.363	0.349	1637	1.695	1.103	1.071
1522	0.192	0.125	0.120	1580	0.606	0.395	0.380	1638	2.126	1.384	0.978
1523	0.195	0.127	0.122	1581	0.620	0.404	0.388	1639	2.134	1.390	0.960
1524	0.199	0.129	0.124	1582	0.624	0.406	0.391	1640	1.941	1.264	1.024
1525	0.200	0.130	0.125	1583	0.600	0.391	0.376	1641	2.234	1.455	1.045
1526	0.207	0.135	0.130	1584	0.640	0.417	0.401	1642	1.461	0.951	1.001
1527	0.214	0.139	0.134	1585	0.627	0.408	0.393	1643	1.184	0.771	1.022
1528	0.227	0.148	0.142	1586	0.680	0.443	0.426	1644	1.367	0.890	1.036
1529	0.240	0.157	0.151	1587	0.675	0.439	0.423	1645	1.614	1.051	0.855
1530	0.245	0.160	0.154	1588	0.619	0.403	0.388	1646	1.631	1.062	0.922
1531	0.250	0.163	0.157	1589	0.684	0.445	0.429	1647	1.204	0.784	0.872
1532	0.253	0.165	0.159	1590	0.913	0.594	0.572	1648	1.535	1.000	1.062
1533	0.245	0.160	0.154	1591	0.930	0.606	0.583	1649	2.477	1.613	1.332
1534	0.237	0.154	0.149	1592	0.947	0.617	0.594	1650	3.008	1.959	1.338
1535	0.231	0.150	0.145	1593	0.965	0.628	0.605	1651	2.387	1.554	1.217
1536	0.224	0.146	0.141	1594	0.982	0.639	0.615	1652	1.436	0.935	1.400
1537	0.218	0.142	0.137	1595	0.998	0.650	0.626	1653	1.427	0.929	0.916
1538	0.213	0.139	0.133	1596	1.015	0.661	0.636	1654	1.573	1.024	0.742
1539	0.218	0.142	0.137	1597	0.924	0.601	0.579	1655	1.532	0.980	0.857
1540	0.256	0.166	0.160	1598	0.940	0.612	0.589	1656	1.452	0.905	1.012
1541	0.273	0.178	0.171	1599	0.879	0.572	0.551	1657	1.262	0.958	1.022
1542	0.296	0.193	0.186	1600	0.809	0.527	0.507	1658	1.272	0.950	0.754
1543	0.323	0.210	0.202	1601	0.963	0.627	0.603	1659	1.254	0.902	0.962
1544	0.353	0.230	0.221	1602	1.117	0.728	0.700	1660	1.339	0.973	1.552
1545	0.385	0.251	0.241	1603	1.059	0.689	0.663	1661	1.597	1.029	1.885
1546	0.397	0.259	0.249	1604	0.764	0.497	0.479	1662	1.559	1.042	1.496
1547	0.393	0.256	0.247	1605	0.879	0.572	0.551	1663	2.034	1.220	0.900
1548	0.390	0.254	0.244	1606	0.725	0.472	0.455	1664	1.947	1.181	0.895
1549	0.386	0.251	0.242	1607	0.743	0.484	0.466	1665	1.685	1.076	0.986

Appendix 4. CLI-CPI by expenditure group 1492-2017 (1913=100) continued.

	Grain	Flour & bread	Veg. fr & berries	Fish	Colonial goods	Food	Bev & tobacco	Clothing & footw	General
1665	1.573	1.634	0.770	0.568	1.410	1.024	0.478	1.100	0.986
1666	1.532	1.452	0.729	0.561	1.380	0.980	0.470	1.100	0.954
1667	1.452	1.089	0.648	0.570	1.380	0.905	0.456	1.178	0.918
1668	1.262	1.452	0.743	0.590	1.972	0.958	0.478	1.178	1.005
1669	1.272	1.329	0.624	0.541	3.155	0.950	0.424	1.178	0.946
1670	1.254	1.329	0.618	0.538	2.048	0.902	0.420	1.178	0.913
1671	1.339	1.694	0.701	0.530	1.922	0.973	0.435	1.100	0.947
1672	1.597	1.452	0.751	0.561	2.267	1.029	0.482	1.061	0.981
1673	1.559	1.481	0.743	0.566	2.676	1.042	0.475	1.100	0.998
1674	2.034	1.670	0.929	0.644	2.267	1.220	0.561	1.100	1.129
1675	1.947	1.694	0.904	0.630	1.922	1.181	0.545	1.100	1.101
1676	1.685	1.663	0.812	0.587	1.637	1.076	0.498	1.100	1.023
1677	2.005	1.452	0.887	0.584	1.577	1.119	0.556	0.903	1.016
1678	2.115	1.452	0.924	0.624	1.502	1.166	0.575	0.982	1.067
1679	1.990	1.210	0.846	0.615	1.380	1.085	0.553	1.021	1.018
1680	1.468	1.210	0.672	0.507	1.380	0.895	0.459	0.943	0.861
1681	1.181	1.401	0.604	0.460	1.381	0.827	0.407	0.943	0.810
1682	1.251	1.452	0.636	0.471	1.380	0.860	0.420	0.943	0.833
1683	1.319	1.793	0.709	0.482	1.343	0.937	0.432	0.943	0.888
1684	1.935	1.815	0.918	0.584	1.257	1.148	0.543	0.943	1.044
1685	1.530	1.452	0.729	0.517	1.455	0.958	0.470	0.943	0.906
1686	1.444	1.452	0.700	0.536	1.700	0.956	0.454	1.061	0.928
1687	1.472	1.815	0.764	0.552	1.676	1.029	0.460	1.100	0.988
1688	1.615	1.936	0.829	0.531	1.922	1.083	0.582	0.943	1.002
1689	1.551	1.815	0.790	0.556	2.514	1.083	0.474	1.068	1.019
1690	1.517	1.329	0.706	0.568	2.563	1.004	0.468	1.131	0.978
1691	1.323	1.694	0.696	0.549	2.366	0.996	0.433	1.178	0.979
1692	1.376	1.694	0.713	0.585	2.464	1.033	0.442	1.275	1.026
1693	2.141	2.178	1.041	0.711	2.169	1.362	0.580	1.275	1.267
1694	2.109	2.420	1.067	0.612	2.267	1.343	0.574	0.943	1.182
1695	1.905	2.541	1.017	0.645	2.267	1.329	0.538	1.180	1.220
1696	2.397	3.441	1.316	0.698	2.366	1.632	0.626	1.078	1.416
1697	2.713	4.952	1.648	0.944	2.292	2.088	0.683	1.768	1.884
1698	2.978	5.808	1.865	0.987	2.366	2.320	0.731	1.768	2.049
1699	2.148	3.349	1.219	0.795	1.972	1.592	0.581	1.571	1.489
1700	1.777	4.197	1.223	0.735	2.366	1.618	0.515	1.571	1.501
1701	1.488	2.662	0.896	0.599	1.972	1.207	0.462	1.257	1.145
1702	1.603	2.761	0.940	0.629	1.972	1.268	0.483	1.296	1.197
1703	1.677	2.306	0.906	0.595	1.972	1.195	0.497	1.134	1.114
1704	1.626	2.957	0.986	0.533	1.972	1.254	0.487	0.943	1.113
1705	1.764	2.708	0.995	0.622	1.774	1.290	0.512	1.178	1.190
1706	1.753	2.580	0.972	0.620	1.774	1.265	0.510	1.178	1.173
1707	1.986	2.500	1.038	0.646	1.774	1.325	0.552	1.134	1.208
1708	2.358	2.420	1.150	0.742	1.774	1.458	0.619	1.257	1.333
1709	3.148	2.420	1.414	0.922	1.577	1.749	0.762	1.438	1.585
1710	2.006	2.164	0.994	0.662	1.774	1.284	0.556	1.178	1.190
1711	1.643	2.222	0.882	0.569	1.666	1.147	0.490	1.061	1.064
1712	1.599	2.222	0.867	0.617	1.666	1.162	0.482	1.257	1.115
1713	1.427	2.222	0.810	0.566	1.666	1.092	0.451	1.178	1.047
1714	1.859	2.222	0.954	0.637	1.666	1.239	0.529	1.178	1.156
1715	1.199	2.222	0.733	0.595	1.666	1.049	0.410	1.414	1.064
1716	1.157	2.222	0.719	0.605	1.666	1.044	0.403	1.473	1.073
1717	1.985	1.963	0.957	0.713	1.666	1.270	0.552	1.375	1.222
1718	2.744	2.715	1.323	1.115	1.666	1.802	0.689	2.357	1.812
1719	2.358	2.332	1.137	0.866	1.666	1.508	0.619	1.700	1.461
1720	1.337	1.323	0.645	0.766	1.666	1.031	0.435	1.938	1.165
1721	1.177	1.165	0.568	0.744	1.666	0.954	0.406	1.955	1.113
1722	1.211	1.198	0.584	0.638	1.666	0.910	0.412	1.559	0.999

Appendix 4. CLI-CPI by expenditure group 1492-2017 (1913=100) continued.

	Grain	Flour & br	Veg. fruit & berries	Dairy products	Meat	Fish	Colonial goods	Food	Bever- ages & tobacco	Clothing & foot- wear	Fuel & lighting	Gene- ral
1723	1.409	1.393	0.679			0.710	1.666	1.031	0.448	1.700		1.115
1724	1.468	1.452	0.708			0.720	1.666	1.061	0.459	1.700		1.137
1725	1.405	1.390	0.677			0.670	1.538	1.002	0.447	1.559		1.066
1726	1.788	1.769	0.862			0.604	1.538	1.125	0.517	1.100		1.059
1727	1.561	1.544	0.753			0.717	1.538	1.093	0.476	1.636		1.147
1728	1.232	1.219	0.594			0.626	1.666	0.912	0.416	1.505		0.989
1729	1.030	1.019	0.497			0.686	1.666	0.861	0.380	1.836		1.021
1730	1.118	1.106	0.539			0.601	1.666	0.851	0.396	1.481		0.940
1731	1.189	1.176	0.573			0.528	1.666	0.841	0.408	1.181		0.870
1732	1.396	1.381	0.673			0.566	1.666	0.947	0.446	1.194		0.950
1733	1.409	1.394	0.679			0.568	1.666	0.953	0.448	1.194		0.954
1734	1.596	1.579	0.770			0.599	1.666	1.047	0.482	1.194		1.022
1735	1.606	1.589	0.774			0.582	1.538	1.038	0.484	1.131		1.003
1736	1.380	1.365	0.666	1.419	0.497	0.563	1.666	0.939	0.443	1.194	1.077	0.944
1737	1.372	1.461	0.637	1.456	0.510	0.587	1.664	0.963	0.433	1.202	1.092	0.961
1738	1.465	1.504	0.664	1.456	0.528	0.562	1.631	0.977	0.448	1.146	1.050	0.962
1739	1.360	1.473	0.603	1.296	0.522	0.600	1.576	0.952	0.412	1.113	1.021	0.933
1740	1.995	2.022	0.863	1.617	0.599	0.668	1.692	1.200	0.465	1.070	1.048	1.107
1741	2.469	2.522	1.376	1.867	0.658	0.649	2.028	1.417	0.576	1.232	1.092	1.296
1742	2.233	2.384	1.170	1.778	0.634	0.627	2.074	1.333	0.531	1.228	1.067	1.230
1743	1.728	1.839	0.857	1.617	0.637	0.653	1.834	1.157	0.442	1.342	1.062	1.113
1744	1.477	1.512	0.725	1.442	0.575	0.574	1.713	1.006	0.395	1.405	1.054	1.011
1745	1.480	1.438	0.688	1.493	0.577	0.565	1.680	0.993	0.428	1.759	1.094	1.058
1746	1.426	1.461	0.690	1.549	0.629	0.635	1.577	1.030	0.441	1.630	1.092	1.067
1747	1.546	1.569	0.716	1.545	0.634	0.636	1.605	1.063	0.457	1.426	1.088	1.064
1748	1.723	1.697	0.743	1.595	0.666	0.677	1.674	1.135	0.486	1.491	1.110	1.127
1749	1.993	1.867	0.882	1.563	0.699	0.717	1.813	1.230	0.547	1.452	1.166	1.199
1750	1.611	1.605	0.769	1.440	0.668	0.604	1.622	1.073	0.484	1.218	1.211	1.054
1751	1.508	1.609	0.688	1.440	0.662	0.663	1.610	1.072	0.430	1.275	1.209	1.054
1752	1.532	2.062	0.716	1.545	0.665	0.651	1.569	1.140	0.447	1.307	1.255	1.111
1753	1.441	1.590	0.629	1.742	0.646	0.663	1.402	1.064	0.454	1.298	1.353	1.064
1754	1.579	1.832	0.801	1.464	0.677	0.695	1.712	1.144	0.445	1.430	1.357	1.137
1755	1.509	1.706	0.769	1.605	0.662	0.682	1.662	1.114	0.453	1.355	1.373	1.108
1756	1.797	1.959	0.866	1.707	0.726	0.668	1.686	1.214	0.483	1.375	1.383	1.184
1757	2.037	2.076	0.888	1.762	0.679	0.636	1.598	1.234	0.491	1.347	1.391	1.196
1758	2.293	2.036	1.103	1.654	0.711	0.642	1.618	1.283	0.479	1.385	1.368	1.232
1759	2.062	1.969	1.007	1.575	0.709	0.690	1.678	1.252	0.481	1.399	1.389	1.214
1760	1.775	1.849	0.834	1.762	0.716	0.664	1.660	1.192	0.469	1.434	1.332	1.172
1761	1.752	1.824	0.860	1.706	0.679	0.655	1.659	1.170	0.469	1.470	1.367	1.164
1762	1.908	1.865	0.994	1.710	0.699	0.725	1.616	1.235	0.454	1.438	1.396	1.205
1763	2.102	1.898	0.988	1.674	0.607	0.839	1.791	1.280	0.494	1.470	1.421	1.247
1764	2.021	1.886	1.048	2.024	0.650	0.793	1.706	1.294	0.498	1.347	1.412	1.239
1765	2.161	2.266	1.263	1.971	0.814	0.911	1.642	1.466	0.491	1.426	1.436	1.369
1766	2.273	2.318	1.156	1.762	0.867	0.903	1.608	1.471	0.506	1.472	1.419	1.380
1767	2.160	2.255	0.913	1.658	0.739	0.828	1.608	1.353	0.495	1.466	1.326	1.290
1768	2.002	2.121	0.918	1.557	0.697	0.797	1.600	1.286	0.502	1.478	1.396	1.251
1769	1.698	1.774	0.785	1.554	0.673	0.780	1.499	1.173	0.445	1.375	1.447	1.156
1770	1.701	1.729	0.803	1.747	0.704	0.814	1.685	1.214	0.467	1.400	1.379	1.186
1771	1.966	1.907	0.884	1.934	0.767	0.948	1.926	1.368	0.465	1.472	1.346	1.299
1772	2.225	2.276	1.218	2.102	0.803	0.909	2.003	1.493	0.494	1.473	1.320	1.387
1773	2.324	2.414	1.252	2.026	0.771	0.880	1.963	1.498	0.476	1.352	1.525	1.386
1774	1.964	2.026	1.134	1.601	0.727	0.874	1.852	1.342	0.465	1.370	1.510	1.278
1775	1.832	1.759	0.866	1.493	0.689	0.808	1.708	1.215	0.453	1.361	1.402	1.180
1776	1.749	1.667	0.819	1.542	0.654	0.804	1.653	1.178	0.439	1.343	1.412	1.151
1777	1.703	1.652	0.780	1.648	0.634	0.744	1.555	1.142	0.433	1.342	1.572	1.137
1778	1.774	1.746	0.794	1.918	0.695	0.754	1.658	1.211	0.486	1.442	1.532	1.202
1779	1.763	1.658	0.876	1.774	0.717	0.791	1.665	1.216	0.486	1.442	1.657	1.214
1780	1.657	1.674	0.821	1.558	0.638	0.848	1.622	1.179	0.494	1.428	1.502	1.177

Appendix 4. CLI-CPI by expenditure group 1492-2017 (1913=100) continued.

	Grain	Flour & bread	Veg. fruit & berries	Dairy products	Meat	Fish	Colonial goods	Food	Bever- ages & tobacco	Clothing & foot- wear	Fuel & lighting	Gene- ral
1781	1.78	1.93	0.85	1.49	0.67	0.94	1.74	1.28	0.52	1.46	1.41	1.25
1782	2.15	2.05	0.99	1.75	0.74	1.02	2.13	1.43	0.58	1.60	1.37	1.38
1783	2.35	2.24	1.07	2.28	0.75	1.04	2.16	1.54	0.57	1.72	1.65	1.49
1784	2.46	2.42	1.38	2.30	0.82	0.88	1.86	1.56	0.58	1.77	1.74	1.51
1785	2.52	2.42	1.23	2.02	0.80	0.89	1.76	1.52	0.54	1.75	1.79	1.49
1786	2.63	2.48	1.25	2.06	0.85	0.92	1.81	1.57	0.53	1.71	1.82	1.52
1787	2.43	2.32	1.24	2.01	0.85	0.94	1.85	1.53	0.53	1.80	1.79	1.50
1788	2.17	2.19	1.08	2.17	0.82	0.95	1.74	1.47	0.51	1.69	1.95	1.45
1789	2.40	2.37	1.18	2.27	0.82	0.98	1.80	1.55	0.54	1.81	2.07	1.53
1790	2.65	2.71	1.25	1.99	0.78	1.00	2.01	1.62	0.59	2.10	1.98	1.62
1791	2.29	2.46	1.12	1.84	0.74	0.90	1.89	1.47	0.54	2.00	1.96	1.49
1792	2.27	2.37	1.16	1.97	0.76	0.92	1.83	1.48	0.58	2.03	1.77	1.50
1793	2.66	2.55	1.31	2.29	0.86	0.90	2.05	1.62	0.62	2.09	1.87	1.61
1794	2.78	2.60	1.32	2.63	0.90	1.01	2.25	1.73	0.66	2.05	1.72	1.68
1795	3.02	2.80	1.48	2.78	1.10	1.05	2.55	1.89	0.71	2.12	1.63	1.80
1796	2.73	2.52	1.32	2.68	1.02	1.01	2.51	1.76	0.67	2.05	1.70	1.70
1797	2.11	2.12	1.12	2.49	0.95	1.01	2.30	1.57	0.59	2.01	2.03	1.58
1798	2.27	2.21	1.12	2.38	0.97	1.03	2.22	1.61	0.62	2.21	1.89	1.62
1799	3.15	2.83	1.46	2.62	0.97	1.19	2.61	1.91	1.14	2.24	1.77	1.90
1800	4.11	3.97	2.51	3.06	1.19	1.27	3.00	2.42	1.22	2.67	1.86	2.33
1801	4.86	5.38	2.76	3.02	1.11	1.38	4.74	2.82	1.27	2.58	2.56	2.64
1802	3.89	4.28	1.77	2.62	1.07	1.41	3.13	2.36	1.19	2.60	2.44	2.30
1803	4.27	4.54	2.22	2.91	1.12	1.49	2.64	2.52	1.21	2.99	2.56	2.48
1804	3.55	3.79	1.82	2.60	1.09	1.51	2.32	2.26	1.03	2.74	2.24	2.22
1805	4.04	4.07	2.12	2.95	1.35	1.77	2.89	2.60	1.24	3.19	2.47	2.56
1806	4.47	4.55	2.18	3.58	1.38	1.74	3.23	2.78	1.33	3.20	2.88	2.73
1807	4.35	4.12	2.29	4.31	1.36	1.62	3.25	2.73	1.26	3.08	2.67	2.66
1808	6.92	6.94	4.18	5.31	2.09	2.06	5.11	4.13	1.98	4.97	3.73	4.04
1809	12.45	11.83	7.56	6.86	2.75	2.57	11.63	6.55	3.97	9.45	6.82	6.80
1810	11.89	10.34	8.52	6.04	2.48	2.77	10.39	6.25	3.86	11.40	8.34	6.96
1811	18.41	17.24	9.77	21.29	6.41	4.42	10.87	10.96	6.85	19.90	12.49	12.05
1812	46.24	37.27	18.47	30.68	12.23	8.39	25.18	22.20	12.33	28.72	17.09	22.04
1813	114.0	143.4	52.7	85.6	44.6	35.7	96.3	74.3	35.7	90.1	78.6	73.7
1814	141.6	201.3	62.1	141.5	63.6	50.4	152.3	103.9	44.7	113.3	119.1	101.2
1815	106.1	134.8	51.5	85.5	55.6	41.8	126.8	79.0	37.2	91.8	119.4	80.2
1816	175.6	165.3	83.2	165.5	85.2	73.3	182.7	122.8	56.1	158.0	185.2	126.5
1817	353.1	297.9	154.5	192.3	105.3	128.4	244.9	205.1	105.6	193.5	234.4	199.1
1818	216.2	204.5	107.9	124.6	69.3	64.0	141.2	127.1	67.1	145.1	134.5	125.6
1819	189.4	203.4	90.7	114.7	63.9	64.0	178.0	120.2	57.2	154.9	145.9	121.4
1820	158.3	152.6	81.1	107.8	60.5	60.8	161.7	103.7	47.0	149.0	132.3	106.7
1821	136.3	122.3	67.5	102.3	63.2	58.9	161.4	93.5	41.4	138.5	122.9	96.8
1822	164.4	156.0	75.9	117.6	72.4	67.7	200.4	111.3	49.1	169.7	148.6	115.9
1823	147.3	154.0	81.8	92.7	59.2	54.9	189.4	100.1	46.0	133.3	132.1	102.2
1824	110.0	106.2	64.4	82.9	52.6	44.1	179.9	78.9	37.4	99.5	117.7	81.2
1825	90.9	90.8	53.1	88.6	57.0	32.9	138.3	68.3	31.6	91.0	86.8	69.5
1826	119.3	110.8	63.9	84.5	39.2	39.2	134.1	75.1	35.8	86.0	94.8	74.9
1827	158.6	147.9	89.3	95.5	41.2	48.6	134.3	94.3	43.6	88.0	95.3	89.7
1828	119.0	115.5	69.5	88.4	46.9	43.2	144.2	80.1	35.7	89.9	92.8	78.6
1829	133.2	115.2	60.3	75.0	47.6	43.5	152.4	80.3	34.8	97.9	117.1	81.5
1830	128.1	118.3	69.0	81.5	49.5	42.5	157.1	81.9	34.7	99.7	122.5	83.3
1831	163.9	141.8	76.9	87.6	53.6	48.6	166.3	94.1	41.3	102.8	131.1	93.2
1832	118.7	131.2	76.8	82.2	53.9	49.3	174.1	87.2	39.7	102.0	132.2	88.4
1833	89.6	107.4	68.5	80.3	50.6	47.9	164.6	77.7	33.3	97.0	121.2	79.8
1834	75.4	91.4	59.5	76.7	51.1	46.9	145.0	70.9	32.0	96.0	110.7	74.2
1835	81.0	100.2	65.3	82.7	46.9	45.0	139.6	72.8	31.4	96.4	103.9	75.0
1836	86.0	99.5	68.5	86.0	60.5	43.4	145.7	76.8	33.5	94.6	113.2	78.2
1837	91.1	108.6	71.5	84.7	55.6	36.1	139.9	75.8	35.7	95.2	120.1	78.5
1838	102.2	117.4	75.6	90.6	48.3	45.0	127.3	79.7	35.4	91.7	114.6	80.0

Appendix 4. CLI-CPI by expenditure group 1492-2017 (1913=100) continued.

	Grain	Flour & bread	Vegetables, fruits & berries	Dairy products	Meat	Fish	Colonial goods	Food
1839	105.4	120.4	66.2	82.0	58.3	48.5	127.3	80.8
1840	97.3	107.3	64.6	78.3	56.8	56.0	120.7	78.2
1841	79.6	85.2	61.1	67.8	45.9	48.8	110.1	66.3
1842	81.2	93.1	64.7	62.5	40.1	45.3	98.1	64.5
1843	80.7	91.0	63.3	69.3	37.0	47.7	93.5	64.8
1844	81.1	86.2	57.9	72.4	41.8	47.2	93.4	64.9
1845	78.0	83.3	61.1	74.3	49.4	50.0	105.5	67.6
1846	96.3	105.1	72.7	73.7	44.5	41.0	101.9	70.8
1847	127.5	141.4	93.6	83.0	52.1	39.2	105.1	84.6
1848	92.5	103.7	74.5	79.5	56.3	40.8	103.9	73.6
1849	79.7	97.0	69.2	78.2	49.4	47.9	102.4	70.7
1850	76.7	90.7	74.6	74.5	49.8	41.2	103.9	67.9
1851	82.8	97.5	68.2	79.0	48.6	34.9	101.3	67.9
1852	91.0	106.1	81.0	79.6	55.8	35.8	96.5	72.8
1853	98.5	111.8	79.2	80.3	53.3	32.9	105.7	73.8
1854	110.2	122.0	76.2	84.5	63.6	38.7	111.0	80.8
1855	115.2	141.2	95.7	81.1	63.4	41.4	115.0	86.4
1856	129.5	152.8	106.0	87.6	69.4	45.1	123.7	94.4
1857	114.0	123.2	98.9	89.1	74.3	51.7	135.8	91.0
1858	98.9	102.3	87.1	80.5	68.9	50.1	127.9	81.6
1859	97.7	101.1	85.7	83.8	66.1	48.4	125.0	80.6
1860	108.9	111.7	94.2	83.2	57.6	55.0	129.0	84.4
1861	113.9	129.4	106.4	83.8	63.4	54.8	130.0	90.0
1862	108.9	125.0	95.0	82.1	65.9	58.3	134.6	89.0
1863	97.2	108.9	90.9	78.9	62.6	61.8	133.4	84.4
1864	91.6	98.1	87.2	80.0	62.1	58.9	133.6	81.2
1865	96.9	96.0	83.8	82.6	55.8	58.8	130.1	80.1
1866	101.4	113.9	92.1	86.6	64.0	51.6	126.6	84.5
1867	112.6	127.2	105.5	89.0	64.4	52.7	122.6	89.6
1868	127.7	146.3	120.5	87.3	70.3	48.7	121.7	95.5
1869	114.9	122.2	98.8	89.2	70.2	60.6	124.0	91.5
1870	99.1	105.6	92.9	90.7	69.2	60.6	126.9	86.9
1871	98.5	112.2	83.1	85.8	66.9	64.3	132.6	86.8
1872	96.7	110.0	88.1	87.8	66.2	61.9	135.8	86.8
1873	100.0	128.2	92.4	90.3	71.9	66.7	138.2	93.0
1874	107.8	129.2	105.1	100.1	79.4	67.0	140.5	98.7
1875	105.3	123.7	111.4	103.5	82.4	63.8	135.8	98.5
1876	101.9	117.8	94.3	101.5	82.9	68.6	137.0	96.5
1877	104.8	124.4	100.4	107.8	79.2	64.9	136.7	98.2
1878	102.4	120.2	92.9	96.8	72.9	59.8	134.2	91.9
1879	91.5	114.8	80.4	87.7	66.2	54.4	132.0	84.6
1880	99.4	121.2	97.8	88.3	68.8	54.4	130.8	88.3
1881	105.5	122.4	96.8	90.8	72.1	60.6	130.5	91.3
1882	98.9	120.4	92.7	93.2	79.2	68.3	127.4	93.2
1883	92.7	114.9	95.6	89.4	76.0	78.9	131.0	93.2
1884	89.9	110.4	85.0	89.4	70.4	68.7	129.0	88.0
1885	85.8	101.8	86.1	86.5	67.5	59.1	121.0	82.8
1886	81.0	96.5	72.3	81.7	64.3	54.9	118.0	77.6
1887	75.6	92.3	67.7	77.4	64.5	52.7	118.5	74.8
1888	73.8	89.4	78.0	79.6	63.0	51.2	118.7	75.0
1889	78.7	92.0	73.3	83.0	63.0	52.2	124.0	76.7
1890	83.6	98.3	77.2	82.0	67.2	53.6	116.6	78.7
1891	88.2	106.1	96.6	81.9	63.6	63.5	113.0	83.2
1892	94.6	113.5	102.4	83.7	63.9	52.1	103.8	82.8
1893	82.8	95.6	77.8	82.1	70.7	48.7	102.2	76.9
1894	75.8	88.0	78.2	80.3	67.4	50.2	98.5	74.2
1895	71.1	81.5	76.1	75.8	62.7	54.0	94.6	71.3
1896	71.7	80.9	81.7	76.1	59.1	60.5	94.4	72.5

Appendix 4. CLI-CPI by expenditure group 1492-2017 (1913=100) continued.

	Beverages & tobacco	Clothing & footwear	Fuel & lighting	Housing	Medical care & health	Travel & transport	General
1839	36.9	93.1	112.1				81.0
1840	31.5	97.4	107.5				79.0
1841	29.0	83.2	97.6				67.8
1842	26.8	76.4	98.1				65.2
1843	28.3	81.8	94.1				66.3
1844	26.9	80.3	98.8				66.2
1845	28.5	81.1	106.5				68.9
1846	33.4	86.1	111.4				72.7
1847	37.9	87.9	119.1				83.2
1848	34.5	88.6	110.0				75.1
1849	33.0	88.3	104.6				72.5
1850	32.8	83.0	99.8				69.5
1851	36.6	86.0	98.3				70.3
1852	35.3	80.8	105.7				73.0
1853	36.5	83.9	113.3				74.9
1854	38.5	94.7	128.2				82.5
1855	43.3	98.3	126.6				87.3
1856	46.8	95.9	136.1				93.3
1857	55.6	97.3	133.2				92.2
1858	55.8	85.5	113.5				82.7
1859	56.2	86.0	114.1				82.3
1860	57.4	95.9	119.8				86.9
1861	62.8	94.9	117.1				90.9
1862	61.0	98.3	110.2				90.1
1863	60.5	104.3	113.1				88.2
1864	60.6	111.4	107.6				87.0
1865	61.0	106.2	104.3				85.2
1866	61.2	111.3	111.1				89.5
1867	58.8	107.8	116.6				92.3
1868	63.7	107.2	109.4				96.2
1869	62.3	102.1	104.7				92.2
1870	54.2	101.4	101.4				87.8
1871	57.2	100.2	106.0	50.9	143.1	149.3	88.2
1872	56.0	116.6	125.8	55.3	141.4	152.0	92.7
1873	57.8	113.0	123.5	57.3	141.7	150.4	95.7
1874	60.0	112.3	138.4	63.8	139.9	160.9	100.9
1875	63.9	111.0	126.9	65.8	139.6	114.7	98.7
1876	64.3	107.3	121.7	70.0	136.0	120.3	97.4
1877	64.6	99.9	126.7	70.2	130.9	130.1	97.6
1878	63.9	96.1	111.2	73.6	125.5	139.7	93.2
1879	61.1	94.2	94.3	68.7	120.1	143.2	87.0
1880	63.4	97.0	96.0	66.6	115.1	129.2	88.8
1881	62.7	91.1	103.3	68.0	118.0	128.3	90.1
1882	69.3	89.1	103.1	69.0	121.2	123.0	91.1
1883	67.1	90.8	100.2	67.8	110.2	123.0	90.7
1884	65.9	93.3	101.5	64.6	105.0	121.3	87.6
1885	69.0	89.3	96.0	68.8	93.1	116.9	83.9
1886	69.0	90.4	91.4	65.7	91.0	118.7	80.5
1887	68.3	86.5	87.7	68.0	89.4	119.5	78.4
1888	73.7	87.8	84.8	67.2	76.9	118.7	78.2
1889	74.4	88.5	89.0	67.2	80.3	114.2	79.5
1890	72.7	88.8	93.4	70.4	83.6	112.4	81.3
1891	74.0	86.5	94.6	74.2	80.2	111.6	83.9
1892	73.6	84.0	91.8	76.6	81.4	105.5	83.3
1893	74.4	78.4	91.7	82.2	78.8	94.9	79.5
1894	73.4	76.3	87.0	81.0	79.0	93.9	77.2
1895	79.4	81.1	84.6	84.5	79.4	93.9	76.9
1896	82.8	81.7	85.0	88.5	79.2	94.9	78.3

Appendix 4. CLI-CPI by expenditure group 1492-2017 (1913=100) continued.

	Grain	Flour & bread	Vegetables, fruits & berries	Dairy products	Meat	Fish	Colonial goods	Food
1897	74.1	80.8	78.6	77.2	63.9	54.5	90.0	71.9
1898	79.9	89.7	86.9	76.9	72.8	55.1	85.9	75.9
1899	81.2	91.1	89.7	81.8	76.7	67.1	87.4	80.9
1900	82.5	95.2	93.1	83.4	82.0	80.8	88.5	86.1
1901	80.3	100.1	91.3	86.6	87.6	73.6	87.6	86.7
1902	80.7	101.7	94.4	87.3	84.8	75.2	85.0	87.0
1903	82.6	104.8	91.8	89.3	86.0	85.7	83.6	90.1
1904	81.0	102.8	94.3	85.7	81.4	85.6	87.2	88.6
1905	82.9	99.4	90.7	86.4	84.4	97.8	91.7	91.4
1906	82.8	91.8	83.2	87.3	87.9	95.9	90.3	89.9
1907	89.1	96.5	99.5	90.7	86.6	94.7	93.2	93.1
1908	96.1	107.1	105.1	87.6	84.0	85.2	91.9	92.6
1909	90.7	97.5	103.6	90.3	82.7	77.2	85.5	88.8
1910	89.9	90.8	106.2	93.0	86.3	87.1	91.4	91.7
1911	96.9	95.8	111.7	92.1	83.1	84.2	95.8	92.7
1912	111.0	102.3	111.1	96.9	88.9	88.9	103.7	98.4
1913	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1914	117.6	113.6	111.6	100.4	100.8	100.8	99.9	104.7
1915	172.2	154.0	168.1	117.8	115.0	139.4	119.5	133.4
1916	174.2	164.4	196.3	153.9	186.8	222.7	148.8	172.6
1917	300.8	278.9	254.2	203.1	239.4	215.7	212.8	234.5
1918	351.3	311.2	308.4	275.4	358.6	223.6	247.0	294.4
1919	316.9	273.6	291.4	322.8	387.7	255.4	241.8	307.0
1920	373.5	331.9	288.9	344.1	355.6	258.6	289.9	326.7
1921								302.1
1922								236.6
1923								222.2
1924								256.0
1925								261.0
1926								200.8
1927								175.7
1928								170.7
1929								160.6
1930								155.6
1931								143.1
1932								135.5
1933								133.0
1934								135.5
1935								140.6
1936								145.6
1937								160.6
1938								168.2
1939								170.7
1940								205.8
1941								246.0
1942								256.0
1943								258.5
1944								258.5
1945								261.0
1946								263.6
1947								261.0
1948								253.5
1949								251.0
1950								273.6
1951								323.8
1952								366.5
1953								371.5
1954								401.6

Appendix 4. CLI-CPI by expenditure group 1492-2017 (1913=100) continued.

	Bever- ages & tobacco	Clothing & foot- wear	Fuel & lighting	Gas & elect- ricity	Housing	Housing, lighting & fuel	Medical care & health	Travel & transport	Misc	General
1897	81.2	76.4	83.9		90.0		75.9	99.2		77.3
1898	82.1	76.5	89.4		95.0		86.7	96.1		80.7
1899	81.0	79.7	101.1		96.8		78.8	96.1		84.7
1900	80.7	88.5	103.8		90.2		82.3	98.7		88.5
1901	81.2	84.2	98.1		88.2		81.4	96.9		87.4
1902	87.8	82.3	98.9		88.9		82.8	93.0		87.5
1903	87.2	83.3	98.3		87.8		82.6	91.9		89.1
1904	87.2	87.1	98.0		83.8		81.3	95.7		88.4
1905	87.2	92.4	96.4		80.4		77.2	93.7		90.1
1906	87.0	96.3	99.6		84.9		81.7	95.0		90.8
1907	88.9	94.6	109.4		83.1		82.6	98.8		92.9
1908	93.4	87.5	119.0		84.5		86.2	97.1		92.5
1909	93.6	91.1	112.8		85.3		80.0	98.0		90.5
1910	96.2	92.1	110.7		90.2		86.8	99.1		93.1
1911	98.5	92.9	89.7		92.6		81.6	101.3		92.7
1912	100.3	96.7	95.4		96.1		84.5	99.0		97.2
1913	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1914	101.5	102.4	102.6	106.0	103.9	103.3	93.6	98.1	100.0	103.3
1915	108.1	128.8	126.0	113.1	115.1	107.7	122.5	107.4	114.0	126.8
1916	130.1	159.9	164.3	128.9	129.1	120.8	206.8	113.6	136.0	159.7
1917	152.0	226.3	249.6	146.4	151.2	134.4	243.3	129.9	168.0	213.5
1918	154.6	284.1	318.4	219.4	160.1	188.3	275.3	170.8	228.0	261.7
1919	185.0	302.9	318.0	212.9	181.5	164.6	251.9	204.4	258.0	276.2
1920	250.9	357.5	391.3	252.5	232.9	230.1	324.1	242.5	276.0	315.1
1921	242.9	320.2	259.2	266.7	251.5	211.2	303.1	203.3	286.0	291.1
1922	202.5	269.2	148.0	229.7	262.4	186.8	269.9	153.2	259.0	242.5
1923	191.5	245.8	137.2	207.9	268.6	184.6	259.3	142.7	247.0	229.3
1924	209.5	256.4	153.8	202.4	273.2	189.8	276.3	150.8	253.0	250.8
1925	214.3	267.6	131.8	199.6	278.4	187.0	282.2	145.4	259.9	255.4
1926	182.3	223.0	118.1	195.3	278.4	183.3	259.8	133.3	249.5	216.3
1927	165.6	185.8	101.6	195.3	281.0	180.9	245.1	123.3	235.7	195.6
1928	161.8	178.4	87.9	188.1	278.4	175.7	236.5	115.2	221.8	182.3
1929	154.1	174.6	85.2	184.6	273.2	172.2	232.6	112.5	221.8	174.3
1930	154.1	167.0	82.5	181.1	270.7	169.9	229.1	109.9	217.9	169.4
1931	154.1	155.6	77.2	179.4	268.1	167.3	223.3	106.1	214.0	160.4
1932	158.0	155.6	77.2	177.6	265.5	165.9	220.5	104.7	210.1	157.0
1933	158.0	155.6	71.9	175.9	260.3	162.0	219.6	102.5	210.1	154.7
1934	161.8	155.6	71.9	175.9	257.8	160.8	219.3	102.6	210.1	155.1
1935	161.8	155.6	74.6	174.2	260.3	162.4	221.6	103.6	210.1	158.5
1936	161.8	159.4	79.9	174.2	268.1	167.2	226.8	106.3	214.0	162.6
1937	165.7	170.8	95.9	174.2	273.2	173.2	237.3	113.9	221.8	174.2
1938	169.5	174.6	101.2	172.4	278.4	176.7	244.7	117.1	229.6	180.0
1939	169.5	178.4	98.5	172.4	278.4	176.1	245.9	116.7	229.6	182.3
1940	196.5	216.3	173.1	172.4	278.4	192.7	270.6	146.1	249.0	212.7
1941	215.8	280.8	237.0	175.9	260.3	198.9	300.5	175.4	280.2	249.3
1942	219.6	318.8	276.9	175.9	257.8	206.6	318.2	192.6	303.5	264.2
1943	223.5	334.0	298.2	175.9	257.8	211.3	326.6	201.4	315.2	270.7
1944	227.3	341.6	308.9	175.9	257.8	213.7	333.4	206.6	326.9	274.0
1945	277.4	349.2	311.5	175.9	257.8	214.3	339.4	209.1	334.7	279.0
1946	342.9	364.3	298.2	175.9	257.8	211.3	351.6	208.8	354.1	286.0
1947	369.9	368.1	282.3	174.2	257.8	207.5	360.7	206.5	373.6	287.4
1948	381.5	375.7	260.9	174.2	257.8	202.8	362.9	200.9	381.4	285.4
1949	385.3	379.5	266.3	174.2	257.8	204.0	366.4	203.5	389.1	285.8
1950	404.6	394.7	266.3	174.2	257.8	204.0	379.6	207.4	400.8	300.7
1951	454.7	504.8	319.5	175.9	262.9	218.5	424.4	236.5	443.6	348.4
1952	473.9	523.7	380.8	182.9	270.7	236.8	459.4	265.8	482.5	379.8
1953	477.8	523.7	391.4	182.9	278.4	242.8	473.3	272.6	502.0	387.4
1954	473.9	527.5	391.4	189.8	293.9	251.0	490.3	278.0	513.7	404.6

Appendix 4. CLI-CPI by expenditure group 1492-2017 (1913=100) continued.

	Food	Beverages & tobacco	Clothing & footwear	Fuel & lighting	Gas & electricity	Housing	Housing, lighting & fuel	Furniture & equipment	Medical care & health
1955	399.1	470.1	523.7	426.0	200.3	309.3	267.4		498.2
1956	419.2	512.5	523.7	503.3	202.0	317.1	288.6		514.5
1957	419.2	527.9	546.5	527.2	217.7	335.1	304.5		533.9
1958	451.8	531.7	557.9	503.3	221.2	353.1	308.1		557.0
1959	464.4	531.7	557.9	489.9	222.9	366.0	311.5	505.2	573.0
1960	453.3	544.3	552.5				314.7	510.0	573.0
1961	462.5	560.5	568.6				324.5	524.6	613.0
1962	499.1	587.4	590.1				337.5	534.3	639.6
1963	503.7	622.5	600.8				350.4	544.0	692.9
1964	549.2	640.9	622.3				362.4	553.7	719.6
1965	568.0	670.0	658.0				375.1	582.9	759.6
1966	580.4	699.2	679.5				387.7	602.3	839.5
1967	605.4	721.0	700.9				404.6	631.5	892.8
1968	624.1	728.3	715.2				421.4	650.9	906.1
1969	649.1	750.1	729.5				434.1	660.6	946.1
1970	730.2	815.7	786.8				484.6	728.6	986.1
1971	780.2	903.1	829.7				514.1	757.8	1079.4
1972	830.1	939.5	894.0				543.6	806.3	1172.7
1973	892.5	1026.9	972.7				581.5	864.6	1252.6
1974	967.4	1085.2	1072.9				649.0	971.5	1332.6
1975	1112.5	1237.1	1148.0				713.9	1097.8	1532.4
1976	1216.0	1357.8	1247.8				785.3	1193.2	1702.7
1977	1319.5	1478.5	1372.6				838.8	1288.7	1838.9
1978	1397.1	1629.3	1497.3				945.9	1360.3	1975.1
1979	1448.9	1629.3	1572.2				999.4	1431.9	2043.3
1980	1575.3	1682.3	1729.8				1120.6	1624.3	2298.7
1981	1838.7	2145.9	1936.8				1272.0	1836.1	2509.7
1982	2096.9	2530.1	2081.6				1428.5	2013.1	2842.8
1983	2260.2	2821.5	2189.7				1569.8	2174.8	3031.6
1984	2418.3	2967.2	2314.3				1685.9	2282.6	3187.0
1985	2571.1	3086.4	2481.1				1791.9	2386.5	3386.9
1986	2808.1	3364.6	2704.6				1877.7	2567.4	3631.2
1987	3024.1	3748.7	2948.3				2014.0	2794.5	3842.2
1988	3213.8	4000.4	3126.1				2180.5	2948.5	3975.5
1989	3308.7	4212.4	3219.5				2316.8	3029.3	4142.0
1990	3419.3	4503.8	3287.3				2463.2	3083.2	4497.4
1991	3482.5	4848.2	3349.6				2574.2	3144.8	4808.3
1992	3540.5	5325.1	3406.4				2634.8	3164.0	5097.0
1993	3503.6	5497.3	3498.1				2710.5	3217.9	5319.1
1994	3556.3	5762.2	3547.5				2735.8	3244.8	5441.3
1995	3609.0	6040.4	3576.8				2811.5	3271.8	5685.6
1996	3666.9	6225.8	3465.1				2877.1	3294.9	5874.4
1997	3788.1	6702.7	3459.6				2957.9	3310.3	6063.1
1998	3972.5	7351.8	3393.6				2968.0	3329.5	6529.5
1999	4083.1	7577.0	3366.1				3033.6	3371.9	6840.5
2000	4162.2	8106.8	3223.2				3174.9	3391.1	7073.7
2001	4083.1	8385.0	3197.5				3412.1	3418.1	7284.7
2002	4014.6	8318.8	3021.6				3538.3	3429.6	7595.6
2003	4146.4	8424.7	2699.1				3846.2	3398.8	7884.3
2004	4220.1	9087.1	2514.1				3856.3	3344.9	8239.7
2005	4288.6	9312.3	2398.6				3921.9	3325.7	8472.8
2006	4351.8	9484.5	2314.3				4159.2	3279.5	8772.7
2007	4467.7	9630.2	2195.2				4123.8	3341.1	8983.7
2008	4657.4	9987.8	2105.4				4401.5	3445.0	9283.5
2009	4852.3	10491.2	2037.6				4482.2	3560.5	9594.4
2010	4857.6	10862.1	1955.2				4714.4	3548.9	9838.7
2011	4857.6	11550.9	1898.4				4759.8	3525.8	10060.8
2012	4915.6	11921.8	1874.5				4674.0	3533.5	10371.7

Appendix 4. CLI-CPI by expenditure group 1492-2017 (1913=100) continued.

	Travel & transport	Post & e- services	Recre- ation & education	Education	Culture & leisure	Hotel & restaurant	Misc	General
1955	291.6						521.4	408.1
1956	319.2						537.0	423.4
1957	333.7						560.4	435.1
1958	333.1						579.8	456.3
1959	333.5		485.7				599.3	466.3
1960	337.1		478.5				669.2	467.8
1961	354.8		495.5				695.7	479.8
1962	369.0		524.6				722.2	505.0
1963	376.1		544.0				742.1	518.2
1964	383.2		563.5				768.3	547.4
1965	404.5		592.6				825.9	570.7
1966	411.6		621.8				864.3	589.6
1967	432.9		631.5				912.4	615.4
1968	461.3		660.6				960.4	637.2
1969	468.4		689.8				998.8	656.8
1970	511.0		748.0				1133.2	726.3
1971	553.5		796.6				1190.9	771.6
1972	596.1		854.9				1277.3	827.3
1973	645.8		913.2				1363.7	888.9
1974	709.7		971.5				1498.2	972.6
1975	773.5		1058.9				1737.9	1086.3
1976	847.2		1143.6				1868.2	1185.9
1977	939.3		1228.4				2085.5	1293.4
1978	1049.8		1313.1				2259.3	1398.9
1979	1105.0	1626.7	1355.4	1355.4	1311.6	1230.2	2346.1	1465.6
1980	1256.4	1730.4		1419.5	1434.2	1323.2	2718.4	1625.3
1981	1417.9	1966.3		1602.7	1569.0	1609.3	2910.1	1847.5
1982	1544.0	2360.7		1758.4	1732.5	1938.3	3135.7	2057.0
1983	1685.3	2534.9		1969.0	1842.8	2152.9	3496.7	2230.0
1984	1796.3	2614.2		2188.8	1944.9	2274.5	3699.7	2370.1
1985	1872.0	2579.0		2307.9	2071.6	2396.1	3936.6	2504.3
1986	1962.8	2581.9		2408.6	2226.9	2603.5	4421.6	2684.3
1987	2184.8	2648.5		2582.6	2398.5	2846.7	5019.4	2918.6
1988	2346.3	2668.0		2903.2	2541.5	3025.5	5414.2	3114.1
1989	2467.4	2747.3		3205.4	2655.9	3161.4	5741.3	3255.9
1990	2573.4	2546.7		3370.2	2770.3	3275.8	5955.6	3389.8
1991	2724.7	2110.2		3471.0	2884.7	3426.0	6068.4	3505.8
1992	2815.6	2004.5		3580.9	2970.5	3547.6	6079.7	3587.9
1993	2956.9	1836.1		3672.5	3060.4	3690.7	6192.5	3669.4
1994	3022.4	1697.1		3819.0	3101.3	3726.4	6372.9	3720.7
1995	3148.6	1595.3		3901.4	3170.7	3790.8	6598.5	3812.1
1996	3158.7	1574.8		4093.7	3207.5	3869.5	6756.5	3860.1
1997	3274.7	1538.6		4295.2	3256.5	3969.6	6914.4	3959.7
1998	3340.3	1489.6		4533.3	3313.7	4148.4	7286.6	4058.2
1999	3436.2	1388.8		4753.1	3387.3	4284.3	7557.3	4152.9
2000	3622.9	1339.9		5000.4	3436.3	4427.4	7771.6	4281.1
2001	3728.9	1295.9		5339.3	3469.0	4620.5	8121.3	4410.3
2002	3769.2	1322.3		5788.0	3505.8	4813.6	8358.1	4467.1
2003	3809.6	1284.1		6117.7	3497.6	4956.7	8651.4	4577.6
2004	3870.1	1233.2		6419.9	3501.7	5071.1	8730.4	4598.9
2005	4036.7	1224.4		6502.4	3526.2	5156.9	8888.3	4668.9
2006	4172.9	1240.1		6648.9	3546.6	5321.5	8798.1	4777.8
2007	4248.6	1215.6		6777.1	3579.3	5543.2	8978.5	4812.7
2008	4420.1	1156.9		6951.1	3632.4	5829.3	9294.4	4993.9
2009	4485.7	1102.1		7244.2	3750.9	6043.9	9666.6	5102.1
2010	4576.6	1078.6		7454.8	3836.7	6229.8	9971.1	5224.5
2011	4687.6	1059.0		7665.5	3828.6	6415.8	10253.1	5292.5
2012	4803.6	996.4		8077.6	3840.8	6616.1	10602.8	5330.0

Appendix 4. CLI-CPI by expenditure group 1492-2017 (1913=100) continued.

	Food	Beverages & tobacco	Clothing & footwear	Housing, lighting & fuel	Furniture & equipment	Medical care & health	Travel & transport
2013	4968.2	12438.4	1837.9	4921.3	3545.1	10649.4	4869.2
2014	5121.0	12862.3	1825.1	4981.9	3656.7	10915.9	4980.2
2015	5268.6	13246.5	1832.4	5047.5	3849.2	11104.7	5045.8
2016	5405.5	13683.6	1922.2	5274.7	4053.2	11326.7	5172.0
2017	5405.5	13961.8	1911.2	5431.1	4003.1	11548.8	5303.2

Appendix 4. CLI-CPI by expenditure group 1492-2017 (1913=100) continued.

	Post & e-services	Education	Culture & leisure	Hotel & restaurant	Misc	General
2013	976.8	8682.0	3873.5	6809.2	10794.5	5443.7
2014	968.0	8965.9	3951.2	6980.8	11065.2	5553.9
2015	978.7	9158.2	4086.0	7152.5	11279.6	5674.6
2016	1018.9	9469.6	4269.9	7388.5	11493.9	5875.8
2017	1029.6	9936.7	4388.4	7653.2	11742.0	5986.3

Appendix 5. General CLI-CPI 1492-2017 (1913=100).

	General		General		General		General		General
1492	0.087	1550	0.261	1608	0.673	1666	0.954	1724	1.137
1493	0.088	1551	0.259	1609	0.627	1667	0.918	1725	1.066
1494	0.089	1552	0.257	1610	0.662	1668	1.005	1726	1.059
1495	0.090	1553	0.234	1611	0.638	1669	0.946	1727	1.147
1496	0.091	1554	0.242	1612	0.722	1670	0.913	1728	0.989
1497	0.092	1555	0.296	1613	0.661	1671	0.947	1729	1.021
1498	0.093	1556	0.294	1614	0.539	1672	0.981	1730	0.940
1499	0.094	1557	0.296	1615	0.648	1673	0.998	1731	0.870
1500	0.095	1558	0.294	1616	0.638	1674	1.129	1732	0.950
1501	0.096	1559	0.253	1617	0.753	1675	1.101	1733	0.954
1502	0.097	1560	0.237	1618	0.779	1676	1.023	1734	1.022
1503	0.098	1561	0.250	1619	0.806	1677	1.016	1735	1.003
1504	0.099	1562	0.281	1620	0.690	1678	1.067	1736	0.944
1505	0.100	1563	0.297	1621	0.758	1679	1.018	1737	0.961
1506	0.100	1564	0.286	1622	0.983	1680	0.861	1738	0.962
1507	0.104	1565	0.298	1623	1.219	1681	0.810	1739	0.933
1508	0.107	1566	0.351	1624	1.511	1682	0.833	1740	1.107
1509	0.111	1567	0.309	1625	1.056	1683	0.888	1741	1.296
1510	0.115	1568	0.310	1626	0.974	1684	1.044	1742	1.230
1511	0.118	1569	0.321	1627	0.888	1685	0.906	1743	1.113
1512	0.121	1570	0.333	1628	1.162	1686	0.928	1744	1.011
1513	0.124	1571	0.338	1629	1.632	1687	0.988	1745	1.058
1514	0.115	1572	0.377	1630	1.571	1688	1.002	1746	1.067
1515	0.118	1573	0.358	1631	1.209	1689	1.019	1747	1.064
1516	0.121	1574	0.333	1632	0.968	1690	0.978	1748	1.127
1517	0.122	1575	0.351	1633	0.994	1691	0.979	1749	1.199
1518	0.124	1576	0.343	1634	1.026	1692	1.026	1750	1.054
1519	0.115	1577	0.367	1635	0.857	1693	1.267	1751	1.054
1520	0.117	1578	0.313	1636	1.062	1694	1.182	1752	1.111
1521	0.119	1579	0.349	1637	1.071	1695	1.220	1753	1.064
1522	0.120	1580	0.380	1638	0.978	1696	1.416	1754	1.137
1523	0.122	1581	0.388	1639	0.960	1697	1.884	1755	1.108
1524	0.124	1582	0.391	1640	1.024	1698	2.049	1756	1.184
1525	0.125	1583	0.376	1641	1.045	1699	1.489	1757	1.196
1526	0.130	1584	0.401	1642	1.001	1700	1.501	1758	1.232
1527	0.134	1585	0.393	1643	1.022	1701	1.145	1759	1.214
1528	0.142	1586	0.426	1644	1.036	1702	1.197	1760	1.172
1529	0.151	1587	0.423	1645	0.855	1703	1.114	1761	1.164
1530	0.154	1588	0.388	1646	0.922	1704	1.113	1762	1.205
1531	0.157	1589	0.429	1647	0.872	1705	1.190	1763	1.247
1532	0.159	1590	0.572	1648	1.062	1706	1.173	1764	1.239
1533	0.154	1591	0.583	1649	1.332	1707	1.208	1765	1.369
1534	0.149	1592	0.594	1650	1.338	1708	1.333	1766	1.380
1535	0.145	1593	0.605	1651	1.217	1709	1.585	1767	1.290
1536	0.141	1594	0.615	1652	1.400	1710	1.190	1768	1.251
1537	0.137	1595	0.626	1653	0.916	1711	1.064	1769	1.156
1538	0.133	1596	0.636	1654	0.742	1712	1.115	1770	1.186
1539	0.137	1597	0.579	1655	0.857	1713	1.047	1771	1.299
1540	0.160	1598	0.589	1656	1.012	1714	1.156	1772	1.387
1541	0.171	1599	0.551	1657	1.022	1715	1.064	1773	1.386
1542	0.186	1600	0.507	1658	0.754	1716	1.073	1774	1.278
1543	0.202	1601	0.603	1659	0.962	1717	1.222	1775	1.180
1544	0.221	1602	0.700	1660	1.552	1718	1.812	1776	1.151
1545	0.241	1603	0.663	1661	1.885	1719	1.461	1777	1.137
1546	0.249	1604	0.479	1662	1.496	1720	1.165	1778	1.202
1547	0.247	1605	0.551	1663	0.900	1721	1.113	1779	1.214
1548	0.244	1606	0.455	1664	0.895	1722	0.999	1780	1.177
1549	0.242	1607	0.466	1665	0.986	1723	1.115	1781	1.246

Appendix 5. General CLI-CPI 1492-2017 (1913=100) continued.

	General		General		General		General		General
1782	1.377	1840	79.0	1898	80.7	1956	423.4	2014	5553.9
1783	1.486	1841	67.8	1899	84.7	1957	435.1	2015	5674.6
1784	1.513	1842	65.2	1900	88.5	1958	456.3	2016	5875.8
1785	1.485	1843	66.3	1901	87.4	1959	466.3	2017	5986.3
1786	1.516	1844	66.2	1902	87.5	1960	467.8		
1787	1.498	1845	68.9	1903	89.1	1961	479.8		
1788	1.450	1846	72.7	1904	88.4	1962	505.0		
1789	1.535	1847	83.2	1905	90.1	1963	518.2		
1790	1.621	1848	75.1	1906	90.8	1964	547.4		
1791	1.492	1849	72.5	1907	92.9	1965	570.7		
1792	1.495	1850	69.5	1908	92.5	1966	589.6		
1793	1.614	1851	70.3	1909	90.5	1967	615.4		
1794	1.678	1852	73.0	1910	93.1	1968	637.2		
1795	1.802	1853	74.9	1911	92.7	1969	656.8		
1796	1.701	1854	82.5	1912	97.2	1970	726.3		
1797	1.578	1855	87.3	1913	100.0	1971	771.6		
1798	1.623	1856	93.3	1914	103.3	1972	827.3		
1799	1.898	1857	92.2	1915	126.8	1973	888.9		
1800	2.326	1858	82.7	1916	159.7	1974	972.6		
1801	2.641	1859	82.3	1917	213.5	1975	1086.3		
1802	2.305	1860	86.9	1918	261.7	1976	1185.9		
1803	2.483	1861	90.9	1919	276.2	1977	1293.4		
1804	2.221	1862	90.1	1920	315.1	1978	1398.9		
1805	2.565	1863	88.2	1921	291.1	1979	1465.6		
1806	2.730	1864	87.0	1922	242.5	1980	1625.3		
1807	2.655	1865	85.2	1923	229.3	1981	1847.5		
1808	4.042	1866	89.5	1924	250.8	1982	2057.0		
1809	6.804	1867	92.3	1925	255.4	1983	2230.0		
1810	6.960	1868	96.2	1926	216.3	1984	2370.1		
1811	12.05	1869	92.2	1927	195.6	1985	2504.3		
1812	22.04	1870	87.8	1928	182.3	1986	2684.3		
1813	73.71	1871	88.2	1929	174.3	1987	2918.6		
1814	101.2	1872	92.7	1930	169.4	1988	3114.1		
1815	80.2	1873	95.7	1931	160.4	1989	3255.9		
1816	126.5	1874	100.9	1932	157.0	1990	3389.8		
1817	199.1	1875	98.7	1933	154.7	1991	3505.8		
1818	125.6	1876	97.4	1934	155.1	1992	3587.9		
1819	121.4	1877	97.6	1935	158.5	1993	3669.4		
1820	106.7	1878	93.2	1936	162.6	1994	3720.7		
1821	96.8	1879	87.0	1937	174.2	1995	3812.1		
1822	115.9	1880	88.8	1938	180.0	1996	3860.1		
1823	102.2	1881	90.1	1939	182.3	1997	3959.7		
1824	81.2	1882	91.1	1940	212.7	1998	4058.2		
1825	69.5	1883	90.7	1941	249.3	1999	4152.9		
1826	74.9	1884	87.6	1942	264.2	2000	4281.1		
1827	89.7	1885	83.9	1943	270.7	2001	4410.3		
1828	78.6	1886	80.5	1944	274.0	2002	4467.1		
1829	81.5	1887	78.4	1945	279.0	2003	4577.6		
1830	83.3	1888	78.2	1946	286.0	2004	4598.9		
1831	93.2	1889	79.5	1947	287.4	2005	4668.9		
1832	88.4	1890	81.3	1948	285.4	2006	4777.8		
1833	79.8	1891	83.9	1949	285.8	2007	4812.7		
1834	74.2	1892	83.3	1950	300.7	2008	4993.9		
1835	75.0	1893	79.5	1951	348.4	2009	5102.1		
1836	78.2	1894	77.2	1952	379.8	2010	5224.5		
1837	78.5	1895	76.9	1953	387.4	2011	5292.5		
1838	80.0	1896	78.3	1954	404.6	2012	5330.0		
1839	81.0	1897	77.3	1955	408.1	2013	5443.7		

Appendix 6. Annual inflation rates as $I_1=(P_t/P_{t-1})100$ and $I_2=(\log P_t-\log P_{t-1})100$.

	I_1	I_2		I_1	I_2		I_1	I_2
1492			1550	7.98	7.67	1608	44.55	36.85
1493	1.03	1.02	1551	-0.85	-0.85	1609	-6.78	-7.02
1494	1.03	1.03	1552	-0.85	-0.85	1610	5.45	5.31
1495	1.03	1.03	1553	-8.97	-9.40	1611	-3.60	-3.67
1496	1.04	1.03	1554	3.54	3.48	1612	13.12	12.32
1497	1.04	1.04	1555	22.36	20.18	1613	-8.39	-8.76
1498	1.04	1.04	1556	-0.71	-0.71	1614	-18.45	-20.40
1499	1.05	1.05	1557	0.48	0.48	1615	20.16	18.36
1500	1.05	1.05	1558	-0.69	-0.70	1616	-1.53	-1.54
1501	1.06	1.05	1559	-13.73	-14.77	1617	18.01	16.56
1502	1.06	1.06	1560	-6.33	-6.54	1618	3.55	3.49
1503	0.93	0.93	1561	5.43	5.29	1619	3.38	3.33
1504	0.94	0.94	1562	12.19	11.50	1620	-14.41	-15.56
1505	0.94	0.94	1563	5.79	5.63	1621	9.87	9.41
1506	0.95	0.95	1564	-3.79	-3.86	1622	29.80	26.08
1507	3.31	3.26	1565	4.29	4.20	1623	23.95	21.47
1508	3.37	3.31	1566	17.95	16.51	1624	23.93	21.45
1509	3.43	3.37	1567	-11.99	-12.77	1625	-30.13	-35.85
1510	3.49	3.43	1568	0.17	0.17	1626	-7.70	-8.02
1511	2.60	2.56	1569	3.71	3.65	1627	-8.88	-9.30
1512	2.61	2.58	1570	3.53	3.46	1628	30.92	26.94
1513	2.63	2.60	1571	1.78	1.76	1629	40.43	33.95
1514	-6.93	-7.18	1572	11.31	10.72	1630	-3.77	-3.84
1515	2.27	2.24	1573	-5.07	-5.21	1631	-23.04	-26.19
1516	2.28	2.25	1574	-7.01	-7.26	1632	-19.89	-22.18
1517	1.33	1.32	1575	5.64	5.49	1633	2.60	2.57
1518	1.36	1.35	1576	-2.49	-2.52	1634	3.26	3.21
1519	-7.38	-7.66	1577	7.24	6.99	1635	-16.44	-17.96
1520	1.55	1.54	1578	-14.83	-16.05	1636	23.82	21.36
1521	1.58	1.57	1579	11.56	10.94	1637	0.89	0.89
1522	1.61	1.60	1580	8.88	8.51	1638	-8.72	-9.13
1523	1.65	1.63	1581	2.22	2.20	1639	-1.80	-1.82
1524	1.68	1.66	1582	0.68	0.68	1640	6.66	6.45
1525	0.69	0.68	1583	-3.78	-3.86	1641	2.08	2.06
1526	3.40	3.34	1584	6.63	6.42	1642	-4.25	-4.34
1527	3.52	3.46	1585	-2.11	-2.14	1643	2.13	2.11
1528	5.84	5.67	1586	8.50	8.16	1644	1.34	1.34
1529	6.14	5.96	1587	-0.76	-0.76	1645	-17.48	-19.21
1530	1.99	1.97	1588	-8.22	-8.58	1646	7.89	7.60
1531	2.01	1.99	1589	10.45	9.94	1647	-5.40	-5.56
1532	1.19	1.18	1590	33.46	28.86	1648	21.74	19.67
1533	-3.23	-3.28	1591	1.90	1.88	1649	25.45	22.68
1534	-3.16	-3.21	1592	1.85	1.83	1650	0.40	0.39
1535	-2.78	-2.82	1593	1.80	1.79	1651	-9.05	-9.49
1536	-2.72	-2.75	1594	1.76	1.75	1652	15.11	14.07
1537	-2.66	-2.69	1595	1.72	1.71	1653	-34.61	-42.48
1538	-2.59	-2.63	1596	1.69	1.67	1654	-18.96	-21.03
1539	2.37	2.35	1597	-9.03	-9.47	1655	15.44	14.36
1540	17.32	15.98	1598	1.81	1.79	1656	18.11	16.64
1541	6.98	6.75	1599	-6.56	-6.78	1657	1.01	1.01
1542	8.36	8.03	1600	-7.93	-8.26	1658	-26.18	-30.35
1543	8.91	8.54	1601	19.03	17.42	1659	27.55	24.33
1544	9.45	9.03	1602	16.05	14.88	1660	61.31	47.82
1545	9.07	8.68	1603	-5.27	-5.41	1661	21.45	19.43
1546	3.12	3.07	1604	-27.85	-32.64	1662	-20.64	-23.12
1547	-0.94	-0.95	1605	15.03	14.00	1663	-39.86	-50.85
1548	-0.94	-0.95	1606	-17.45	-19.18	1664	-0.58	-0.58
1549	-0.94	-0.94	1607	2.45	2.42	1665	10.22	9.73

Appendix 6. Annual inflation rates continued.

	<i>l</i> ₁	<i>l</i> ₂		<i>l</i> ₁	<i>l</i> ₂		<i>l</i> ₁	<i>l</i> ₂
1666	-3.22	-3.27	1724	1.94	1.92	1782	10.56	10.04
1667	-3.78	-3.85	1725	-6.27	-6.48	1783	7.89	7.60
1668	9.48	9.06	1726	-0.63	-0.64	1784	1.82	1.80
1669	-5.88	-6.06	1727	8.32	7.99	1785	-1.85	-1.87
1670	-3.53	-3.59	1728	-13.79	-14.84	1786	2.07	2.05
1671	3.74	3.67	1729	3.25	3.20	1787	-1.17	-1.18
1672	3.65	3.59	1730	-7.98	-8.31	1788	-3.22	-3.27
1673	1.73	1.71	1731	-7.43	-7.72	1789	5.85	5.69
1674	13.08	12.29	1732	9.17	8.78	1790	5.62	5.47
1675	-2.50	-2.53	1733	0.49	0.49	1791	-7.93	-8.27
1676	-7.02	-7.28	1734	7.14	6.89	1792	0.18	0.18
1677	-0.71	-0.71	1735	-1.93	-1.95	1793	7.94	7.64
1678	5.05	4.92	1736	-5.87	-6.04	1794	3.96	3.88
1679	-4.65	-4.76	1737	1.82	1.80	1795	7.43	7.17
1680	-15.43	-16.75	1738	0.10	0.10	1796	-5.63	-5.80
1681	-5.93	-6.11	1739	-2.97	-3.01	1797	-7.22	-7.49
1682	2.89	2.85	1740	18.61	17.07	1798	2.83	2.79
1683	6.54	6.34	1741	17.09	15.78	1799	17.00	15.70
1684	17.59	16.20	1742	-5.12	-5.26	1800	22.51	20.30
1685	-13.23	-14.19	1743	-9.48	-9.96	1801	13.55	12.71
1686	2.44	2.41	1744	-9.15	-9.59	1802	-12.72	-13.61
1687	6.46	6.26	1745	4.64	4.54	1803	7.72	7.43
1688	1.46	1.45	1746	0.85	0.85	1804	-10.53	-11.12
1689	1.73	1.71	1747	-0.31	-0.31	1805	15.46	14.37
1690	-4.11	-4.20	1748	5.94	5.77	1806	6.44	6.24
1691	0.19	0.19	1749	6.38	6.18	1807	-2.73	-2.76
1692	4.79	4.68	1750	-12.13	-12.93	1808	52.24	42.03
1693	23.40	21.03	1751	0.00	0.00	1809	68.32	52.07
1694	-6.65	-6.88	1752	5.43	5.29	1810	2.30	2.27
1695	3.18	3.13	1753	-4.18	-4.27	1811	73.19	54.92
1696	16.06	14.90	1754	6.81	6.59	1812	82.83	60.34
1697	33.04	28.55	1755	-2.50	-2.53	1813	234.45	120.73
1698	8.78	8.42	1756	6.84	6.61	1814	37.31	31.71
1699	-27.31	-31.90	1757	0.96	0.96	1815	-20.74	-23.25
1700	0.81	0.80	1758	3.04	3.00	1816	57.73	45.57
1701	-23.73	-27.10	1759	-1.46	-1.47	1817	57.35	45.33
1702	4.56	4.46	1760	-3.47	-3.54	1818	-36.90	-46.05
1703	-6.99	-7.25	1761	-0.64	-0.64	1819	-3.36	-3.42
1704	-0.05	-0.05	1762	3.49	3.43	1820	-12.13	-12.93
1705	6.90	6.67	1763	3.49	3.43	1821	-9.26	-9.72
1706	-1.45	-1.46	1764	-0.61	-0.61	1822	19.72	18.00
1707	3.04	3.00	1765	10.48	9.97	1823	-11.85	-12.61
1708	10.30	9.80	1766	0.77	0.77	1824	-20.52	-22.96
1709	18.94	17.35	1767	-6.51	-6.73	1825	-14.39	-15.54
1710	-24.94	-28.69	1768	-3.00	-3.05	1826	7.82	7.53
1711	-10.57	-11.17	1769	-7.64	-7.94	1827	19.67	17.96
1712	4.83	4.72	1770	2.58	2.54	1828	-12.33	-13.16
1713	-6.13	-6.33	1771	9.55	9.12	1829	3.67	3.61
1714	10.44	9.93	1772	6.79	6.57	1830	2.13	2.11
1715	-7.95	-8.29	1773	-0.09	-0.09	1831	11.89	11.23
1716	0.77	0.77	1774	-7.75	-8.07	1832	-5.08	-5.22
1717	13.89	13.01	1775	-7.66	-7.97	1833	-9.78	-10.29
1718	48.29	39.40	1776	-2.47	-2.50	1834	-6.95	-7.20
1719	-19.34	-21.49	1777	-1.23	-1.24	1835	1.07	1.06
1720	-20.24	-22.62	1778	5.75	5.59	1836	4.27	4.18
1721	-4.53	-4.64	1779	0.98	0.98	1837	0.30	0.30
1722	-10.26	-10.82	1780	-3.04	-3.09	1838	1.94	1.93
1723	11.72	11.08	1781	5.82	5.66	1839	1.26	1.25

Appendix 6. Annual inflation rates continued.

	I ₁	I ₂		I ₁	I ₂		I ₁	I ₂		I ₁	I ₂
1840	-2.51	-2.54	1898	4.51	4.41	1956	3.77	3.70	2014	2.03	2.00
1841	-14.11	-15.22	1899	4.88	4.77	1957	2.75	2.72	2015	2.17	2.15
1842	-3.81	-3.89	1900	4.46	4.36	1958	4.88	4.76	2016	3.55	3.48
1843	1.59	1.57	1901	-1.22	-1.23	1959	2.19	2.17	2017	1.88	1.86
1844	-0.02	-0.02	1902	0.14	0.14	1960	0.32	0.32			
1845	3.95	3.88	1903	1.86	1.84	1961	2.58	2.54			
1846	5.60	5.44	1904	-0.81	-0.82	1962	5.24	5.11			
1847	14.45	13.50	1905	1.89	1.87	1963	2.62	2.59			
1848	-9.80	-10.32	1906	0.85	0.84	1964	5.63	5.48			
1849	-3.38	-3.44	1907	2.27	2.24	1965	4.25	4.16			
1850	-4.22	-4.32	1908	-0.47	-0.47	1966	3.30	3.25			
1851	1.25	1.24	1909	-2.10	-2.12	1967	4.39	4.30			
1852	3.82	3.75	1910	2.86	2.82	1968	3.53	3.47			
1853	2.58	2.55	1911	-0.44	-0.44	1969	3.07	3.03			
1854	10.19	9.71	1912	4.81	4.70	1970	10.59	10.07			
1855	5.80	5.64	1913	2.91	2.87	1971	6.24	6.05			
1856	6.83	6.61	1914	3.30	3.24	1972	7.22	6.97			
1857	-1.20	-1.20	1915	22.76	20.51	1973	7.45	7.18			
1858	-10.27	-10.83	1916	25.95	23.07	1974	9.42	9.00			
1859	-0.55	-0.55	1917	33.68	29.03	1975	11.68	11.05			
1860	5.64	5.49	1918	22.56	20.34	1976	9.17	8.77			
1861	4.65	4.55	1919	5.57	5.42	1977	9.06	8.68			
1862	-0.90	-0.90	1920	14.06	13.16	1978	8.15	7.84			
1863	-2.08	-2.10	1921	-7.61	-7.92	1979	4.77	4.66			
1864	-1.44	-1.45	1922	-16.68	-18.25	1980	10.90	10.34			
1865	-2.03	-2.05	1923	-5.47	-5.63	1981	13.67	12.81			
1866	4.97	4.86	1924	9.40	8.98	1982	11.34	10.74			
1867	3.16	3.11	1925	1.84	1.82	1983	8.41	8.08			
1868	4.23	4.15	1926	-15.32	-16.63	1984	6.28	6.09			
1869	-4.16	-4.25	1927	-9.55	-10.04	1985	5.67	5.51			
1870	-4.77	-4.89	1928	-6.80	-7.04	1986	7.19	6.94			
1871	0.48	0.48	1929	-4.43	-4.53	1987	8.73	8.37			
1872	5.14	5.02	1930	-2.78	-2.82	1988	6.70	6.48			
1873	3.20	3.15	1931	-5.34	-5.49	1989	4.56	4.45			
1874	5.42	5.28	1932	-2.11	-2.14	1990	4.11	4.03			
1875	-2.16	-2.18	1933	-1.44	-1.45	1991	3.42	3.36			
1876	-1.38	-1.39	1934	0.24	0.24	1992	2.34	2.32			
1877	0.28	0.28	1935	2.20	2.18	1993	2.27	2.25			
1878	-4.57	-4.68	1936	2.60	2.57	1994	1.40	1.39			
1879	-6.66	-6.89	1937	7.12	6.88	1995	2.46	2.43			
1880	2.07	2.04	1938	3.31	3.25	1996	1.26	1.25			
1881	1.52	1.51	1939	1.27	1.26	1997	2.58	2.55			
1882	1.11	1.10	1940	16.69	15.43	1998	2.49	2.46			
1883	-0.51	-0.51	1941	17.21	15.88	1999	2.33	2.31			
1884	-3.34	-3.40	1942	6.00	5.83	2000	3.09	3.04			
1885	-4.26	-4.36	1943	2.45	2.42	2001	3.02	2.97			
1886	-4.03	-4.12	1944	1.23	1.22	2002	1.29	1.28			
1887	-2.67	-2.71	1945	1.81	1.79	2003	2.48	2.45			
1888	-0.22	-0.22	1946	2.49	2.46	2004	0.47	0.46			
1889	1.66	1.64	1947	0.50	0.50	2005	1.52	1.51			
1890	2.33	2.30	1948	-0.68	-0.68	2006	2.33	2.31			
1891	3.20	3.15	1949	0.12	0.12	2007	0.73	0.73			
1892	-0.79	-0.79	1950	5.24	5.10	2008	3.77	3.70			
1893	-4.58	-4.68	1951	15.84	14.71	2009	2.17	2.14			
1894	-2.90	-2.95	1952	9.00	8.62	2010	2.40	2.37			
1895	-0.39	-0.39	1953	2.02	2.00	2011	1.30	1.29			
1896	1.90	1.88	1954	4.43	4.34	2012	0.71	0.71			
1897	-1.34	-1.35	1955	0.85	0.85	2013	2.13	2.11			

Appendix 7. Sources for appendix tables.

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Commodity and expenditure group weights 1665-1736.

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Appendix 1.2.

Commodity and expenditure group weights 1665-1736.

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Commodity and expenditure group weights 1910-1920.

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Commodity indices 1492-1666 (1600=100).

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Commodity indices 1816-1830 (1825=100).

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Commodity indices 1830-1871 (1850=100).

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- *Grytten, Ola Honningdal 2004a, "A Consumer Price Index for Norway 1516-2003", Eitrheim, Øyvind, Jan Tore Klovland & Jan Fredrik Qvigstad (eds), *Historical Monetary Statistics for Norway 1819-2003*, Norges Bank, Oslo, pp. 47-98.
- *Grytten, Ola Honningdal 2004b, "A Norwegian consumer price index 1819-1913 in a Scandinavian perspective", *European Review of Economic History*, **8**(1). pp. 61-79.
- *Klovland, Jan Tore 2018, "Contribution to a history of prices in Norway: Monthly price indices. 1767-1920", unpublished manuscript, NHH, Bergen, pp. 185-211.
- *NOS VI. 23 1915, *Market Prices on grain and potatoes 1836-1914*, Statistics Norway, Oslo, pp 3*-5*.
- *NOS XII. 245 1969, *Historical Statistics 1968*, Statistics Norway, Oslo, pp. 530-531.
- *NOS XII. 291 1978, *Historical Statistics 1978*, Statistics Norway, Oslo, pp. 523-525 and 530.
- *Professor Ingvar B. Wedervang's Historical Archive on Prices and Wages, files W051, W128, W131, 137, W139, W155, W206, W210, W213, W269, W271, W272, W383 and W397, NHH, Bergen.
- *Ramstad, Jan 1982, *Kvinnelønn og pengeøkonomi: En studie av kvinners lønn i tekstilindustrien i Kristiania ca 1850-1910*, NHH, Bergen, pp. 158-238.
- *Solhaug, Trygve 1976, *De norske fiskeriers historie 1815-1880*, Universitetsforlaget, Oslo, pp. 713-722.
- *Wallem, Fredrik Meltzer 1888, *Handelen med fersk fisk paa endel større udenlandske Markeder*, Centraltrykkeriet, Kristiania, pp. 181-186.
- *Wallem, Fredrik Meltzer 1893, *Handelen med Tørfisk og Klipfisk*, Fabritius & Sønner, Kristiania, pp. 201-205.

Appendix 2.6.

Commodity indices 1871-1910 (1895=100).

- *Ellingsæther, Sverre 2007, *Konsum og priser i Norge 1871-1910*, NHH, Bergen, pp. 47-66.
- *Grytten, Ola Honningdal 2004a, "A Consumer Price Index for Norway 1516-2003", Eitrheim, Øyvind, Jan Tore Klovland & Jan Fredrik Qvigstad (eds), *Historical Monetary Statistics for Norway 1819-2003*, Norges Bank, Oslo, pp. 79-93.
- *Grytten, Ola Honningdal 2004b, "A Norwegian consumer price index 1819-1913 in a Scandinavian perspective", *European Review of Economic History*, **8**(1). pp. 61-79.
- *Hodne, Fritz & Ola Honningdal Grytten 1997, *Sporveien i Bergen 1897-1997*, Bodoni/Centraltrykkeriet, Bergen, pp. 373-374.
- *Klovland, Jan Tore 2018, "Contribution to a history of prices in Norway: Monthly price indices. 1767-1920", unpublished manuscript, NHH, Bergen, pp. 185-211.
- *NOS VI. 23 1915, *Market Prices on grain and potatoes 1836-1914*, Statistics Norway, Oslo, pp 3*-5*.
- *NOS XII. 245 1969, *Historical Statistics 1968*, Statistics Norway, Oslo, pp. 530-531.
- *NOS XII. 291 1978, *Historical Statistics 1978*, Statistics Norway, Oslo, pp. 523-525 and 530.
- *Professor Ingvar B. Wedervang's Historical Archive on Prices and Wages, files W128, W137, W139, W206, W213, W219, W258, W269, W271, W275, W276, W382, W383, W384, W387, W396 and 397, NHH, Bergen.
- *Ramstad, Jan 1982, *Kvinnelønn og pengeøkonomi: En studie av kvinners lønn i tekstilindustrien i Kristiania ca 1850-1910*, NHH, Bergen, pp. 158-238.
- *Ruud, Einar 1911, "Vareprisernes bevægelse 1880-1910", *Månedsskrift for Socialstatistikk*. **1**(9-10), Statistics Norway, Kristiania, pp. 136-149.

Appendix 2.7.

Commodity indices 1910-1920 (1913=100).

- *Det Statistiske Centralbyrå 1911, "Priser i smaasalg på endel viktigere forbruksartikler", *Månedsskrift for Socialstatistikk*, **1**(10-11), Kristiania, Statistcs Norway, pp. 166-175.
- *Grytten, Ola Honningdal 2004a, "A Consumer Price Index for Norway 1516-2003", Eitrheim, Øyvind, Jan Tore Klovland & Jan Fredrik Qvigstad (eds), *Historical Monetary Statistics for Norway 1819-2003*, Norges Bank, Oslo, pp. 79-93.
- *Hodne, Fritz & Ola Honningdal Grytten 1997, *Sporveien i Bergen 1897-1997*, Bodoni/Centraltrykkeriet, Bergen, pp. 373-374.
- *Klovland, Jan Tore 2018, "Contribution to a history of prices in Norway: Monthly price indices. 1767-1920", unpublished manuscript, NHH, Bergen, pp. 185-211.
- *Mork, Rasmus P. 1941, *Melkeomsetning og meieridrift i Norge 1930-1940*, NML, Oslo, pp. 277-278.
- *NOS, *Statistical yearbook for Norway, 1910-1923*, Statistics Norway, Oslo.
- *NOS XII. 245 1969, *Historical Statistics 1968*, Statistics Norway, Oslo, pp. 530-533.
- *NOS XII. 291 1978, *Historical Statistics 1978*, Statistics Norway, Oslo, pp. 523-536.

- *Ruud, Einar 1911, "Vareprisernes bevægelse 1880-1910", *Månedsskrift for Socialstatistikk*. 1(9-10), Statistics Norway, Kristiania, pp. 136-149.
- *Statistical Office of Kristiania 1915, *Husholdningsregnskaper ført av en del mindre bemidlede familier i Kristiania, Bergen, Trondhjem, Drammen, Kristiansand og Hamar aaret 1912/1913*, Specialundersøkelser IV, Kristiania, pp. 144-149.
- *Statistical Office of Kristiania 1916, *Fortsættelse av specialundersøkelse nr III angaaende prisbevægelsen på livsfornødenheter i Kristiania samt statistiske opgaver angaaende de kommunale funktionærers forsørgelsesbyrde*, Specialundersøkelser V, J. Chr. Gundersens boktrykkeri, Kristiania, pp. 1-19.
- *www.ntnu.no/klv/portotakster.html: Portotakster i Norge.

Appendix 3.1.

Expenditure group indices 1492-1665 (1600=100).

- *Abildgren, Kim 2010, "Consumer Prices in Denmark 1502-2007", *Scandinavian Economic History Review*, 58(1), pp. 2-24.
- *Aschehoug, Torkel Halvorsen 1888, "Studier over kornprisernes historie i Norge siden Amerikas oppdagelse", *Statsøkonomisk tidskrift*, 2(1), pp. 81-116.
- *Falbe-Hansen, Vigand Andreas 1869, *Hvilke Forandringer er der siden Amerikas Opdagelse foregaaet i Priserne paa Danmarks væsentlige Frembringelser og i Arbeidslønnen her i Landet, og hvilken Del kan der tilskrives de ædle Metaller Mængde i disse Forandringer? En statistisk Undersøgelse*, Gad, København.
- *Professor Ingvar B. Wedervang's Historical Archive on Prices and Wages, file W155, NHH, Bergen.
- *Scharling, William 1869, *Pengenes Værdi ved danske Aktstykker samt ledsaget af en kort Udsigt over den danske Mønthistorie*, Gad, København.
- *State Archive of Bergen, Bergen Domkapittelsprotokoller 1639-1833.

Appendix 3.2.

Expenditure group indices 1665-1736 (1688=100).

- *Aschehoug, Torkel Halvorsen 1888, "Studier over kornprisernes historie i Norge siden Amerikas oppdagelse", *Statsøkonomisk tidskrift*, 2(1), pp. 81-116.
- *Coldevin, Axel 1938, *Næringsliv og priser i Nordland 1700-1880*, Hanseatisk museum, Bergen.
- *City Archive of Bergen, Nordfarkladder 1709-1819, A-0581 Ra 0001.
- *City Archive of Bergen, Nordfarkladder 1709-1819, A-0581 Rb 0001.
- *City Archive of Bergen, Nordfaruttrekk 1712-1819, A-0597 Ra 0001.
- *City Archive of Bergen, Nordfaruttrekk 1712-1819, A-0620 Ra 0001.
- *<https://databaser.lokalhistoriewiki.no/price/priceLists.jsp>
- *Professor Ingvar B. Wedervang's Historical Archive on Prices and Wages, file W155, NHH, Bergen.
- *State Archive of Bergen, Bergen Domkapittelsprotokoller 1639-1833.
- *www.Lokalhistoriewiki.no: Historiske toll- og skipsanløpslister

Appendix 3.3.

Expenditure group indices 1736-1816 (1750=100).

- *Coldevin, Axel 1938, *Næringsliv og priser i Nordland 1700-1880*, Hanseatisk museum, Bergen.
- *City Archive of Bergen, Nordfarkladder 1709-1819, A-0581 Ra 0001.
- *City Archive of Bergen, Nordfarkladder 1709-1819, A-0581 Rb 0001.
- *City Archive of Bergen, Nordfaruttrekk 1712-1819, A-0597 Ra 0001.
- *City Archive of Bergen, Nordfaruttrekk 1712-1819, A-0620 Ra 0001.
- *Dhawan, Nikita & Eivind Langdal 2018, *Historical Price Indices and Price Shocks: Norway 1736-1766: A Macroeconomic and Historical Approach*, NHH, Bergen, pp. 66-102.
- *Grytten, Ola Honningdal 2004a, "A Consumer Price Index for Norway 1516-2003", Eitrheim, Øyvind. Jan Tore Klovland & Jan Fredrik Qvigstad (eds), *Historical Monetary Statistics for Norway 1819-2003*, Norges Bank, Oslo, pp. 47-98.
- *<https://databaser.lokalhistoriewiki.no/price/priceLists.jsp>
- *Klovland, Jan Tore 2018, "Contribution to a history of prices in Norway: Monthly price indices, 1767-1920", unpublished manuscript, NHH, Bergen, pp. 185-211.
- *Professor Ingvar B. Wedervang's Historical Archive on Prices and Wages, files, W051, W128, W137, W139, W155, NHH, Bergen.
- *Sakrisvold, Ole Martin Lefsaaker 2017, *Reallønn for strevet? En undersøkelse av rørsarbeidernes levestandard 1800-1830*, UiO, Oslo, pp. 34-43.
- *State Archive of Bergen, Bergens Pric-Curant 1767-1818.
- *www.Lokalhistoriewiki.no: Historiske Toll- og Skipsanløpslister
- *Ølmheim, Eli Kristin & Kristin Stubhaug 2018, *Fra prisstabilitet til hyperinflasjon: En empirisk studie av norsk historisk prisutvikling og prisintegrasjon i perioden 1737-1816*, NHH, Bergen, pp. 86-95.

Appendix 3.4.

Expenditure group indices 1816-1830 (1825=100).

- *Coldevin, Axel 1938, *Næringsliv og priser i Nordland 1700-1880*, Hanseatisk museum, Bergen.

- * City Archive of Bergen, Nordfarkladder 1709-1819, A-0581 Ra 0001.
- * City Archive of Bergen, Nordfarkladder 1709-1819, A-0581 Rb 0001.
- * City Archive of Bergen, Nordfaruttrekk 1712-1819, A-0597 Ra 0001.
- * City Archive of Bergen, Nordfaruttrekk 1712-1819, A-0620 Ra 0001.
- * [City Archive of Bergen: priskurant: www.bergenbyarkiv.no/oppslagsverket/2003/10/24/priskuranter](http://www.bergenbyarkiv.no/oppslagsverket/2003/10/24/priskuranter)
- * Dhawan, Nikita & Eivind Langdal 2018, *Historical Price Indices and Price Shocks: Norway 1736-1766: A Macroeconomic and Historical Approach*, NHH, Bergen, pp. 66-102.
- * Grytten, Ola Honningdal 2004a, "A Consumer Price Index for Norway 1516-2003", Eitrheim, Øyvind, Jan Tore Klovland & Jan Fredrik Qvigstad (eds), *Historical Monetary Statistics for Norway 1819-2003*, Norges Bank, Oslo, pp. 47-98.
- * Grytten, Ola Honningdal 2004b, "A Norwegian consumer price index 1819-1913 in a Scandinavian perspective", *European Review of Economic History*, 8(1), pp. 61-79.
- * <https://databaser.lokalhistoriewiki.no/price/priceLists.jsp>
- * Klovland, Jan Tore 2018, "Contribution to a history of prices in Norway: Monthly price indices, 1767-1920", unpublished manuscript, NHH, Bergen, pp. 185-211.
- * Professor Ingvar B. Wedervang's Historical Archive on Prices and Wages, files W051, W128, W137, W155, W213, W217, W219 and W220, NHH, Bergen.
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- * Solhaug, Trygve 1976, *De norske fiskeriers historie 1815-1880*, Universitetsforlaget, Oslo, pp. 713-722.
- * State Archive of Bergen, Bergens Pric-Curant 1767-1818.
- * www.lokalhistoriewiki.no: Historiske Toll- og Skipsanløpslister
- * Ølmheim, Eli Kristin & Kristin Stubhaug 2018, *Fra prisstabilitet til hyperinflasjon: En empirisk studie av norsk historisk prisutvikling og prisintegrasjon i perioden 1737-1816*, NHH, Bergen, pp. 86-95.

Appendix 3.5.

Expenditure group indices 1830-1871 (1850=100).

- * [Bergen byarkiv: priskurant: www.bergenbyarkiv.no/oppslagsverket/2003/10/24/priskuranter](http://www.bergenbyarkiv.no/oppslagsverket/2003/10/24/priskuranter)
- * Brautaset, Camilla 1998, *Norsk eksport av fisk. I perspektiv av historiske nasjonalregnskap*, NHH, Bergen, pp. 132-168.
- * Brautaset, Camilla 2002, *Norwegian Exports in Perspective of Historical National Accounts*, NHH, Bergen, pp. 63-71, 97-114, 239-241 and 256.
- * Grytten, Ola Honningdal 2004a, "A Consumer Price Index for Norway 1516-2003", Eitrheim, Øyvind, Jan Tore Klovland & Jan Fredrik Qvigstad (eds), *Historical Monetary Statistics for Norway 1819-2003*, Norges Bank, Oslo, pp. 47-98.
- * Grytten, Ola Honningdal 2004b, "A Norwegian consumer price index 1819-1913 in a Scandinavian perspective", *European Review of Economic History*, 8(1), pp. 61-79.
- * Klovland, Jan Tore 2018, "Contribution to a history of prices in Norway: Monthly price indices, 1767-1920", unpublished manuscript, NHH, Bergen, pp. 185-211.
- * NOS VI. 23 1915, *Market Prices on grain and potatoes 1836-1914*, Statistics Norway, Oslo, pp 3*-5*.
- * NOS XII. 245 1969, *Historical Statistics 1968*, Statistics Norway, Oslo, pp. 530-531.
- * NOS XII. 291 1978, *Historical Statistics 1978*, Statistics Norway, Oslo, pp. 523-525 and 530.
- * Professor Ingvar B. Wedervang's Historical Archive on Prices and Wages, files W051, W128, W131, 137, W139, W155, W206, W210, W213, W269, W271, W272, W383 and W397, NHH, Bergen.
- * Ramstad, Jan 1982, *Kvinnelønn og pengeøkonomi: En studie av kvinners lønn i tekstilindustrien i Kristiania ca 1850-1910*, NHH, Bergen, pp. 158-238.
- * Solhaug, Trygve 1976, *De norske fiskeriers historie 1815-1880*, Universitetsforlaget, Oslo, pp. 713-722.
- * Wallem, Fredrik Meltzer 1888, *Handelen med fersk fisk paa endel større udenlandske Markeder*, Centraltrykkeriet, Kristiania, pp. 181-186.
- * Wallem, Fredrik Meltzer 1893, *Handelen med Tørfisk og Klipfisk*, Fabritius & Sønner, Kristiania, pp. 201-205.

Appendix 3.6.

Expenditure group indices 1871-1910 (1895=100).

- * Ellingsæther, Sverre 2007, *Konsum og priser i Norge 1871-1910*, NHH, Bergen, pp. 47-66.
- * Grytten, Ola Honningdal 2004a, "A Consumer Price Index for Norway 1516-2003", Eitrheim, Øyvind, Jan Tore Klovland & Jan Fredrik Qvigstad (eds), *Historical Monetary Statistics for Norway 1819-2003*, Norges Bank, Oslo, pp. 79-93.
- * Grytten, Ola Honningdal 2004b, "A Norwegian consumer price index 1819-1913 in a Scandinavian perspective", *European Review of Economic History*, 8(1), pp. 61-79.
- * Hodne, Fritz & Ola Honningdal Grytten 1997, *Sporveien i Bergen 1897-1997*, Bodoni/Centraltrykkeriet, Bergen, pp. 373-374.
- * Klovland, Jan Tore 2018, "Contribution to a history of prices in Norway: Monthly price indices, 1767-1920", unpublished manuscript, NHH, Bergen, pp. 185-211.
- * NOS VI. 23 1915, *Market Prices on grain and potatoes 1836-1914*, Statistics Norway, Oslo, pp 3*-5*.
- * NOS XII. 245 1969, *Historical Statistics 1968*, Statistics Norway, Oslo, pp. 530-531.
- * NOS XII. 291 1978, *Historical Statistics 1978*, Statistics Norway, Oslo, pp. 523-525 and 530.
- * Professor Ingvar B. Wedervang's Historical Archive on Prices and Wages, file W128, W137, W139, W206, W213, W219, W258, W269, W271, W275, W276, W382, W383, W384, W387, W396 and 397, NHH, Bergen.
- * Ramstad, Jan 1982, *Kvinnelønn og pengeøkonomi: En studie av kvinners lønn i tekstilindustrien i Kristiania ca 1850-1910*, NHH, Bergen, pp. 158-238.

*Ruud, Einar 1911, "Vareprisernes bevægelse 1880-1910", *Månedsskrift for Socialstatistikk*, 1(9-10), Statistics Norway, Kristiania, pp. 136-149.

Appendix 3.7.

Expenditure group indices 1910-1920 (1913=100).

*Det Statistiske Centralbyrå 1911, "Priser i smaasalg på endel viktigere forbruksartikler", *Månedsskrift for Socialstatistik*, 1(10-11), Kristiania, Statistcs Norway, pp. 166-175.

*Grytten, Ola Honningdal 2004a, "A Consumer Price Index for Norway 1516-2003", Eitrheim, Øyvind, Jan Tore Klovland & Jan Fredrik Qvigstad (eds), *Historical Monetary Statistics for Norway 1819-2003*, Norges Bank, Oslo, pp. 79-93.

*Hodne, Fritz & Ola Honningdal Grytten 1997, *Sporveien i Bergen 1897-1997*, Bodoni/Centraltrykkeriet, Bergen, pp. 373-374.

*Klovland, Jan Tore 2018, "Contribution to a history of prices in Norway: Monthly price indices, 1767-1920", unpublished manuscript, NHH, Bergen, pp. 185-211.

*Mork, Rasmus P. 1941, *Melkeomsetning og meieridrift i Norge 1930-1940*, NML, Oslo, pp. 277-278.

*NOS, *Statistical yearbook for Norway, 1910-1923*, Statistics Norway, Oslo.

*NOS XII. 245 1969, *Historical Statistics 1968*, Statistics Norway, Oslo, pp. 530-533.

*NOS XII. 291 1978, *Historical Statistics 1978*, Statistics Norway, Oslo, pp. 523-536.

*Ruud, Einar 1911, "Vareprisernes bevægelse 1880-1910", *Månedsskrift for Socialstatistikk*, 1(9-10), Statistics Norway, Kristiania, pp. 136-149.

*Statistical Office of Kristiania 1915, *Husholdningsregnskaper ført av en del mindre bemidlede familier i Kristiania, Bergen, Trondhjem, Drammen, Kristiansand og Hamar aaret 1912/1913*, Specialundersøkelser IV, Kristiania, pp. 144-149.

*Statistical Office of Kristiania 1916, *Fortsættelse av specialundersøkelse nr III angaaende prisbevægelsen på livsfornödenheter i Kristiania samt statistiske opgaver angaaende de kommunale funktionærers forsørgelsesbyrde*, Specialundersøkelser V, J. Chr. Gundersens boktrykkeri, Kristiania, pp. 1-19.

*www.ntnu.no/klv/portotakster.html: Portotakster i Norge.

Appendix 3.8.

Expenditure group indices 1920-1959 (1939=100).

NOS X. 178 1949, *Statistical Survey 1948*, Statistics Norway, Oslo, pp. 352-359.

NOS XII. 245 1969, *Historical Statistics 1968*, Statistics Norway, Oslo, pp. 530-533.

NOS XII. 291 1978, *Historical Statistics 1978*, Statistics Norway, Oslo, pp. 523-536.

NOS C. 188 1995, *Historical Statistics 1994*, Statistics Norway, Oslo-Kongsvinger 1995, pp. 294-302.

<https://www.ssb.no/kpi>

Appendix 3.9.

Expenditure group indices 1959-1979 (1974=100).

NOS XII. 245 1969, *Historical Statistics 1968*, Statistics Norway, Oslo, pp. 530-533.

NOS XII. 291 1978, *Historical Statistics 1978*, Statistics Norway, Oslo, pp. 523-536.

NOS C. 188 1995, *Historical Statistics 1994*, Statistics Norway, Oslo-Kongsvinger 1995, pp. 294-302.

<https://www.ssb.no/kpi>

Appendix 3.10.

Expenditure group indices 1979-2017 (2015=100).

NOS C. 188 1995, *Historical Statistics 1994*, Statistics Norway, Oslo-Kongsvinger 1995, pp. 294-302.

<https://www.ssb.no/kpi>

<https://www.ssb.no/statbank/table/03014/>

Appendix 4.

CLI-CPI by expenditure group 1492-2017 (1913=100)

*Abildgren, Kim 2010, "Consumer Prices in Denmark 1502-2007", *Scandinavian Economic History Review*, 58(1), pp. 2-24.

*Aschehoug, Torkel Halvorsen 1888, "Studier over kornprisernes historie i Norge siden Amerikas oppdagelse", *Statsøkonomisk tidsskrift*, 2(1), pp. 81-116.

*[Bergen byarkiv: priskurant: www.bergenbyarkiv.no/oppslagsverket/2003/10/24/priskuranter](http://Bergen.byarkiv.no/priskurant)

*Brautaset, Camilla 1998, *Norsk eksport av fisk. I perspektiv av historiske nasjonalregnskap*, NHH, Bergen, pp. 132-168.

*Brautaset, Camilla 2002, *Norwegian Exports in Perspective of Historical National Accounts*, NHH, Bergen, pp. 63-71, 97-114, 239-241 and 256.

*City Archive of Bergen, Bergens Pric-Curant for Norlandshandlerne 1739-1818.

*City Archive of Bergen, Nordfarkladder 1709-1819, A-0581 Ra 0001.

*City Archive of Bergen, Nordfarkladder 1709-1819, A-0581 Rb 0001.

*City Archive of Bergen, Nordfaruttrekk 1712-1819, A-0597 Ra 0001.

- *City Archive of Bergen, Nordfaruttrekk 1712-1819, A-0620 Ra 0001.
- *[City Archive of Bergen: priskurant: www.bergenbyarkiv.no/oppslagsverket/2003/10/24/priskuranter](http://www.bergenbyarkiv.no/oppslagsverket/2003/10/24/priskuranter)
- *Clarke, Edward Daniel 1816, *Travels in various countries of Europe, Asia and Africa: Scandinavia, 9-11*, Cadell & Davis, London.
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- *Falbe-Hansen, Vigand Andreas 1869, *Hvilke Forandringer er der siden Amerikas Opdagelse foregaaet i Priserne paa Danmarks væsentlige Frembringelser og i Arbeidslønnen her i Landet, og hvilken Del kan der tilskrives de ædle Metalleres Mængde i disse Forandringer? En statistisk Undersøgelse*, Gad, København.
- *Grytten, Ola Honningdal & Kjell Bjørn Minde 1998, "The demand for consumer goods in Norway", *Scandinavian Economic History Review*, **46**(1), pp. 42-58.
- *Grytten, Ola Honningdal 2004a, "A Consumer Price Index for Norway 1516-2003", Eitrheim, Øyvind, Jan Tore Klovland & Jan Fredrik Qvigstad (eds), *Historical Monetary Statistics for Norway 1819-2003*, Norges Bank, Oslo, pp. 47-98.
- *Grytten, Ola Honningdal 2004b, "A Norwegian consumer price index 1819-1913 in a Scandinavian perspective", *European Review of Economic History*, **8**(1), pp. 61-79.
- *Hodne, Fritz & Ola Honningdal Grytten 1997, *Sporveien i Bergen 1897-1997*, Bodoni/Centraltrykkeriet, Bergen, pp. 373-374.
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- *Minde, Kjell Bjørn 1983, *Fabrikkstedet Ytre Arna: Arbeiderkår 1846-1879*, UiB, Bergen.
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- *NOS, *Statistical yearbook for Norway*, 1910-1923, Statistics Norway, Oslo.
- *NOS VI. 23 1915, *Market Prices on grain and potatos 1836-1914*, Statistics Norway, Oslo, pp 3*-5*.
- *NOS X. 178 1949, *Statistical Survey 1948*, Statistics Norway, Oslo, pp. 352-359.
- *NOS XII. 245 1969, *Historical Statistics 1968*, Statistics Norway, Oslo, pp. 530-533.
- *NOS XII. 291 1978, *Historical Statistics 1978*, Statistics Norway, Oslo, pp. 523-536 and 576.
- *NOS C. 188 1995, *Historical Statistics 1994*, Statistics Norway, Oslo-Kongsvinger 1995, pp. 294-302.
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Appendix 5.

General CLI-CPI 1492-2017 (1913=100)

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Appendix 6.

Annual inflation rates as $I_1=(P_t/P_{t-1})100$ and $I_2=(\log P_t - \log P_{t-1})100$.

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