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POUL THESTRUP

The Standard of Living  
in  
Copenhagen 1730-1800

*Some methods of measurement*

KØBENHAVN 1971

Københavns Universitet  
INSTITUT FOR ØKONOMISK HISTORIE  
Publikation nr. 5

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The Standard of Living  
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G. E. C. GADS FORLAG

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# Preface

This work is identical in its principal features with a paper on one of the Copenhagen University prize-subjects of 1968, for which the author was awarded the University's gold medal. Certain revisions and amendments have been incorporated prior to publication in the present form.

Most of the hitherto unpublished price- and wage-data embodied in this study are culled from the collection of documents bearing upon Danish price history in the safe-keeping of the Institute of Economic History, University of Copenhagen. Without access to this material it would have been impossible to accomplish a study of this kind within a measurable period of time. The material and human resources of the Institute were placed at my disposal while this work was in preparation, and the Institute has now undertaken its publication as one of its series of monographs. For all this, warm thanks are due to Professor Kristof Glamann, Ph. D., Director of the Institute at the time of my researches, and to Professor Svend Aage Hansen, Ph. D., the Institute's present Director.

The demographic section (Chap 10) was compiled with the aid of a card-series embracing all burials in the parish of Helligånd, Copenhagen, from 1730 to 1800, and in the parish of Holmen, Copenhagen, from 1785 to 1787, a total of 10,000 cards transcribed by my father, A. S. Thestrup, from the church registers.

The decision to publish the work in English was influenced by its following so closely (especially in Chapters 7–9) the pattern of Friis and Glamann: *A History of Prices and Wages in Denmark 1660–1800*, vol. I, 1958. The English translation is by Geoffrey French, B. Sc. (Econ.).

Printing costs have been defrayed by *Statens Humanistiske Forskningsråd* (the Danish National Research Council for the Humanities) and by Krista and Viggo Petersens Foundation. The translating costs

have been met by *Rask-Ørsted Fondet* (the Rask-Ørsted Foundation). Sincere thanks are due to these bodies.

The work in no sense purports to offer a definitive solution to the problem of living standards in Copenhagen in 1730–1800. I do hope, however, that its appearance may stimulate discussion of the issues I have raised and the methods I have employed.

*Poul Thestrup*

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# Frame of study

In confining this study of living standards in Copenhagen to the period 1730–1800, no attempt is being made to characterise these seventy years as an era distinct from those preceding and succeeding it. The time boundaries were determined by the purely practical consideration that most of the historical price-data at the Institute of Economic History, University of Copenhagen, lie within this period. Had it been possible to choose the boundaries more freely, it would have been more natural to take the period extending from the close of the Great Northern War in 1721 to either Denmark's involvement in the Napoleonic Wars in 1807, or to the so-called bankruptcy of the state in 1813. This is not to assert, however, that those years would have formed the best boundaries, but only that the selection of the period 1730–1800 is in no way based upon historical events but upon the availability of material.

Thus, for instance, when it is stated later on that a factor is growing from 1730 until such and such a point in time, this does not mean that the growth began in 1730 but that it has been studied from 1730. Again, it may be that enlargement of the enquiry to cover a longer span of time would have caused some of the phenomena to reveal themselves in a different perspective. For example, rates of growth can only be evaluated by reference to the rates of growth at other points in time or of other phenomena.

Geographically the enquiry is limited to Copenhagen. It constitutes a decidedly narrow view of the 18th century to concern oneself only with living standards in the towns and, within this category, to restrict oneself to Copenhagen, but it would be difficult to employ an index of real wages as a descriptive device for other than urban artisans and workmen. Thus it is not to be thought that in the 18th century there were no rural labourers remunerated in cash, for of course there were. It is simply that it is rather difficult to determine the extent to which a



rural labourer received remuneration in kind, e. g., food or grain, over and above his money-wages. It is also possible that some degree of tolerance was accorded to rural labourers unofficially appropriating for themselves a certain amount of payment in kind. The question whether an urban artisan or labourer received his keep as well as money-wages is a difficult one in regard to certain occupations, while in other cases it is possible to say with a fair degree of certainty that journeymen or day-labourers normally did not receive their keep from their employers. It is therefore natural to concentrate upon such occupations in studying the levels of real wages.

Of the towns, Copenhagen has been selected because it was by far the biggest. It had about the same number of inhabitants as all the other towns of Denmark put together <sup>1)</sup>. A very large part of the above-mentioned collection of price-material relates to Copenhagen, and since great importance is attached in this study to the food import figures in the consumption tax ledgers (*konsumtionsregnskaber*), <sup>2)</sup> it was essential to select a city where food production within its walls was small in relation to the quantity of food imported.

The rather narrow geographical and time boundaries of this study were chosen as offering the compensatory possibility of using a variety of methods for depicting the standard of living of the same population, thus enabling the methods to be evaluated by mutual comparison. Again, stress is laid on assessing the margin of error in the various computations so as to determine whether the changes revealed are significant, i. e. whether the change is larger than the margin of error.

1. In 1769: RA Rtk 352.28. In 1787 and 1801: Danmarks Statistik, Folketællingen 1787 (manuscript) and Folketællingen 1801 (manuscript).
2. *Konsumtion*, or consumption tax, was a form of commodity tax similar to excise duty.

# 1. The standard of living.

## Criteria and methods of description

In studying the standard of living of a society, a variety of factors can be objectively described, e. g., the consumption of some particular commodity. It is a far more difficult task, however, to determine whether a change in one or more of these factors is to be construed as an improvement or a deterioration in the standard of living. There can be no doubt that a change in prices or wages enabling some social class to consume more with its pattern of consumption unaltered signifies a rise in the standard of life, but a change of consumption representing a reduction of the living standard from a modern standpoint was not necessarily so regarded from the standpoint prevailing in the 18th century. The naval victualling scales of 1697 and 1752 reckoned 1 lb of pork as equivalent to 2 lbs of beef<sup>1)</sup>, and in the Copenhagen Magistrates' official meat prices, 1 lb of pork was normally priced considerably higher than 1 lb of beef<sup>2)</sup>. This appears to imply that the value of the meat was judged by its calorific value, whereas today one would be more inclined to judge it by the protein content. In the present study, modern criteria are applied. In any case these coincide at many points with those of the 18th century: for example, contemporaries too regarded it as a crisis in 1772 when a fairly substantial proportion of the consumption had to be switched from animal to vegetable foodstuffs<sup>3)</sup>. Nevertheless the possibility that contemporaries may have viewed changes differently from ourselves must be kept in mind when assessing their impact.

It is appropriate in these introductory remarks to discuss not only

1. H. G. Garde: *Efterretninger om den danske og norske sømagt* I. 1832, p. 254, and III, 1833, p. 379.
2. Friis and Glamann: *A History of Prices and Wages in Denmark, 1660–1800*, vol. 1, 1958, pp. 187–191.
3. Cf. p. 58 ff.

criteria of evaluation but also what is actually to be understood by the term living standard, or standard of life, when used in this study.

In 1953 the United Nations Organisation set up an expert committee with members nominated by the UN, the ILO, the UNESCO, the FAO and the WHO. The Committee was given the task of devising international definitions of living standards and methods of measuring them. In the Committee's report of 1954 it was suggested that the standard of life should be internationally defined as comprising the following factors:

1. Health, including demographic conditions
2. Food and nutrition
3. Education, including literacy and skills
4. Conditions of work
5. Employment situation
6. Aggregate consumption and savings
7. Transportation
8. Housing, including household facilities
9. Clothing
10. Recreation and entertainment
11. Social security
12. Human freedoms

In placing the twelve factors in this order of priority, what the Committee had in mind was not the degrees of relative importance to the standard of life but the ease of obtaining quantitative data to elucidate the individual factors <sup>4</sup>).

This group of factors is selected by reference more to international comparability at a given point in time than to the evaluation of developments within a limited field over a period of time. Further, it is questionable whether items 7–12 are capable of being measured in such form as to enable comparisons to be made.

While not adopting any dogmatic stance in relation to the list of factors set forth above, the concept of the standard of life will be illustrated in the present work by reference to the following:

1. Nutrition
2. Real wages
3. Health
4. Report on International Definition and Measurement of Standards and Levels of Living. UN sales number 1954, IV. 5., p. 26 ff.

This is not to be construed as an assertion that these three factors collectively constitute the standard of life, but they do represent a vital part of it nonetheless.

The adoption of three different methods of illustrating the standard of living is predicated upon the view that the evolution of the latter over a period of time is not to be satisfactorily depicted by a single figure-series, since the standard of living for the same social class can be rising in certain respects while falling in others simultaneously. For example, it is easy to imagine a situation in which nutrition is deteriorating to some degree yet at the same time health is improving because of better hygiene and greater medical knowledge. On the other hand it is impossible to conceive of a fundamental worsening of nutritional standards not having an impact on health. In other words, the three factors may be uncorrelated where changes are minor but must be correlated where they are of a fundamental nature. However, health may deteriorate drastically without any accompanying decline in nutrition on the outbreak of an epidemic against which the populace has no antidote.

Computation of the three components of the standard of living is so effected as to avoid as far as possible using the same material in more than one of the three components, so as to prevent any correlation arising from the duplication of an identical error.

In computing each of the three individual components, an effort is made to assess the percentage margin of error, partly to obtain an idea of how big a change a component must exhibit in order to be significant—it must be bigger than the margin of error—partly to see which of the three methods of computation entails the smallest margin of error relative to the volume of evidence, and partly to be able to judge whether the results of the three methods of computation are incompatible.

## 2. Size and structure of the population of Copenhagen 1730–1800

In certain later chapters, computations will be made involving the size of Copenhagen's population, its social structure and the size of its families. These features will therefore be dealt with now.

### Size of population

The population of the capital was counted in 1728 after the fire of Copenhagen and again at the general Danish censuses of 1769, 1787 and 1801. In addition, from 1784 onwards the City Magistrates conducted annual censuses, although not in 1787. The various censuses are of rather uneven value.

The census of 14 December 1728 of the inhabitants of the parts of Copenhagen spared by the fire was reckoned at the time to total 54,392 persons, while a recount gave a figure of 54,363. The difference is of course without significance. The census is difficult to use for determining the size of Copenhagen's population in the 1720s and 1730s, since it was taken at a moment when, it must be assumed, the city had been temporarily abandoned by a proportion of its inhabitants, since about a third of the city's dwellings had been destroyed in the fire. The editor of the census calculates that before the fire the city had about 70,000 inhabitants<sup>1</sup>). This is a rough estimate, however, to which no independent value can be ascribed.

Aksel Lassen has advanced the hypothesis that the census of 1728 indicates the number of inhabitants of Copenhagen at the time of the fire, not after it, i. e. that the census reflects a normal state of affairs, not one in which a proportion of the city's populace had temporarily

1. G. L. Grove: *Kjøbenhavns Huse og Indvaanere efter Branden 1728*, 1906, p. 33\*.

fled from it<sup>2)</sup>). It is difficult to perceive how the census has led Aksel Lassen to this conclusion. The fire of Copenhagen took place on 20–23 October 1728<sup>3)</sup>). The census was carried out over a number of days subsequent to 6 November 1728<sup>4)</sup>). The summary drawn up by the municipal authorities is annotated: “With most humble duty, a census and count of the families and unattached persons present at this time in this royal seat of Copenhagen in the quarters of the city spared from the conflagration”<sup>5)</sup>). It is known that 436 destitute families were sent away from the city to neighbouring country towns and that 484 paupers who originated from the provinces were sent home by ship before the census was carried out<sup>6)</sup>). In addition, a number of people may be supposed to have left the city of their own accord, and it must be presumed that some of the poor will have stayed on the sites of their fire-ravaged dwellings, since they had no chance of finding shelter in the undamaged part of the city. Such persons are not included in the census<sup>7)</sup>).

At the census of 1769, the lower ranks of the military were excluded, but their wives and children were counted<sup>8)</sup>). The population counted was distributed as follows<sup>9)</sup>):

|  | Males | Females |
|--|-------|---------|
| 1. Persons of rank and crown functionaries with wives and children living at home                                | 2,417 | 2,471   |
| 2. Clergy, church officials, teachers and students with wives and children living at home                        | 1,081 | 406     |
| 3. Seafarers and fishermen, including those on authorised voyages, and their wives                               | 866   | 2,639   |
| 4. Seafarers' and fishermen's children living at home  | 856   | 1,386   |
| 5. Manufacturers and artisans, their journeymen and apprentices, together with wives and children living at home | 9,437 | 7,046   |
| 6. Other citizens and inhabitants not included   |       |         |

2. Aksel Lassen: *Fald og fremgang. Træk af befolkningsudviklingen i Danmark 1645–1960*, 1965, p. 66 and 274 f.

3. G. L. Grove: *Kjøbenhavns Huse og Indvaanere efter Branden 1728*, 1906, p. 9\*.

4. *Op. cit.* p. 14\*.

5. *Op. cit.* p. 109.

6. *Op. cit.* p. 25\*.

7. *Op. cit.* p. 109 ff.

8. Cf. Appendix 1.01.

9. RA Rtk 352.28.

|   |        |        |
|---|--------|--------|
| in any of the above-mentioned groups,<br>together with wives and children living<br>at home                 | 10,319 | 15,798 |
| 7. Servants and day-labourers   | 4,043  | 8,252  |
| 8. Persons resident in the city but travelling<br>abroad with passport excluding seafarers<br>and fishermen | 103    | 39     |
| 9. Inmates of almshouses, chronic sick<br>and mentally deranged   | 897    | 2,458  |
| <hr/> <i>Total</i>  | 30,019 | 40,495 |

The surplus of females in groups 3 and 6 is probably attributable to the families of non-reckonable soldiers and sailors being counted here.

In the censuses of 1787 and 1801, no groups were accorded prior exemption. In 1787, 46,132 males and 43,900 females were counted <sup>10</sup>), while in 1801 the figures were 51,642 males and 49,333 females <sup>11</sup>). These two censuses are probably accurate in their broad outlines. At any rate there is no reason to believe the census of 1787 to be any less reliable than that of 1801, which is normally accepted without correction. The argument that population censuses automatically become better the more censuses have been held has no foundation in fact. This can be seen, for example, from the censuses conducted by the Copenhagen Magistrates from 1784 onwards in connection with the city's supply of corn and other foodstuffs.

The Magistrates' figures for 1784 are not implausible, but that there then took place a decline to 81,000 in 1795, and that the population at the end of the century numbered 10,000 fewer than the figure emerging from the census of 1801, is exceedingly unlikely. Even if the two censuses of 1801 were carried out at different times of the year, this is not sufficient to explain the discrepancy; and in that case it is far more probable that the Magistrates counted too few than that the general census counted too many.

The ratio between the numbers of males and females counted in Copenhagen in 1769 was 0.74, while in both 1787 and 1801 it was

10. Danmarks Statistik, Folketællingen 1787 (manuscript).

11. Danmarks Statistik, Folketællingen 1801 (manuscript).

| Magistrates' census <sup>12)</sup> | General census of population |
|------------------------------------|------------------------------|
| 1784                               | 93,719                       |
| 1785                               | 87,023                       |
| 1786                               | 87,801                       |
| 1787                               | 90,032                       |
| 1788                               | 86,827                       |
| 1789                               | 85,470                       |
| 1790                               | 85,965                       |
| 1791                               | 84,509                       |
| 1792                               | 86,462                       |
| 1793                               | 85,771                       |
| 1794                               | 86,133                       |
| 1795                               | 81,132                       |
| 1796                               | 83,604                       |
| 1797                               | 84,671                       |
| 1798                               | 84,554                       |
| 1799                               | 85,214                       |
| 1800                               | 87,391                       |
| 1801                               | 91,681                       |
| 1802                               | 92,886                       |
| 1803                               | 95,533                       |
| 1804                               | 97,219                       |
| 1805                               | 97,230                       |
| 1806                               | 97,438                       |

1.05. A correction for uncounted males in 1769 can therefore be made by assuming all females to have been counted in 1769, and the ratio between males and females in 1769 to have been 1.05, just as in 1787 and 1801. This produces a population figure for Copenhagen in 1769 of 83,015 in place of the 70,514 counted<sup>13)</sup>.

In order to obtain population figures for Copenhagen in the period between the censuses and back to 1730, interpolation has been effected on the basis of the number of baptisms. This method was employed as early as 1881 by Marcus Rubin when attempting to estimate the population of Copenhagen in 1630–1730<sup>14)</sup>. The method builds on the fact that while the death rate might fluctuate widely from year to year, the birth rate depended only to a minor degree upon external circumstances.

12. Source 1784–1795: Frederik Thaarup: *Journal og Haandbog for Kjøbenhavnere I*, 1797, p. 159.

Source 1796–1806: Henrich Callisen: *Physisk-medizinske Betragtninger over Kjøbenhavn I*, 1807, p. 78–79.

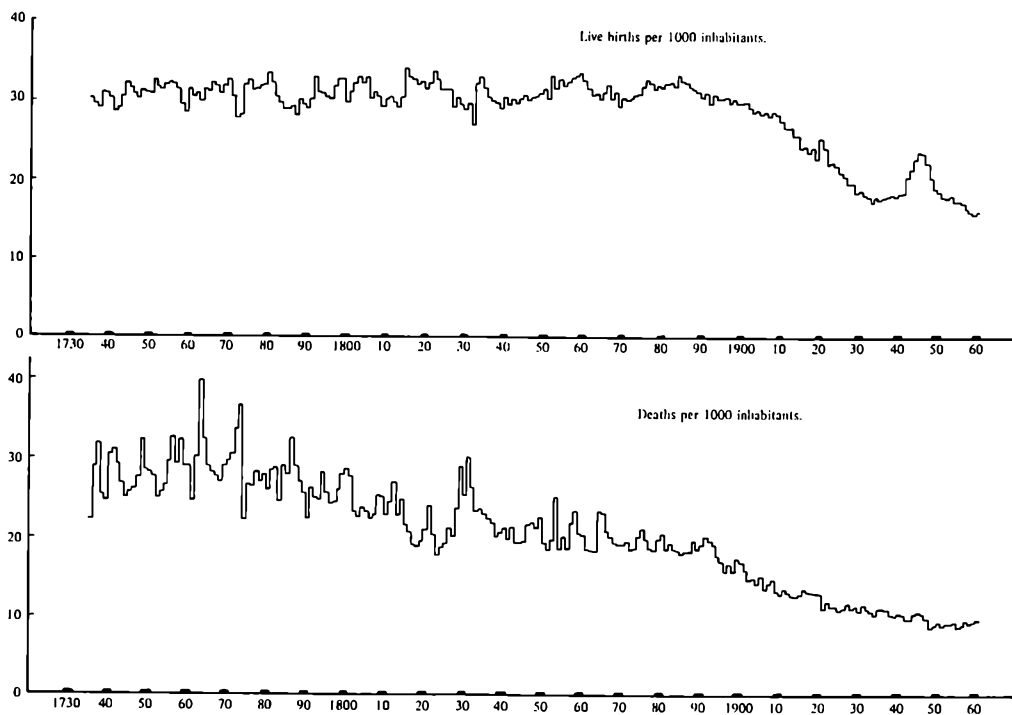
13. This method of correcting the census of 1769 is employed by Aksel Lassen: *Fald og fremgang. Træk af befolkningsudviklingen i Danmark 1645–1960*, 1965, p. 199.

14. Marcus Rubin: *Bidrag til Kjøbenhavns Befolkningsstatistik i Hundredåret 1630–1730*. (Dansk) *Historisk Tidsskrift*, ser. 5, vol. 3, 1881–82, p. 487–549.



**Fig. 1**

Birth and death rates for Denmark as a whole<sup>1)</sup>, 1735-1960



<sup>1)</sup> I. e., the Kingdom of Denmark as modified by territorial changes.

Sources: 1735-99: Adolph Jensen: *Befolkningsforhold i de nordiske Lande i det 18. Aarhundrede*, *Nationaløkonomisk Tidsskrift* vol. 73, 1935, p. 14.  
1800-1960: *Statistiske Undersøgelser* nr. 19, pp. 16-17 and 55.

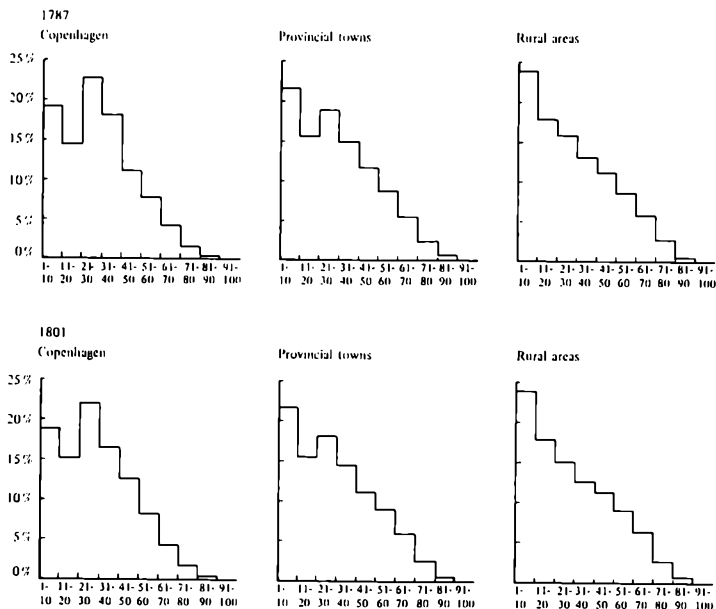
Fig. 1 shows the birth and death rates for Denmark in 1735–1960. The figures for the period 1800–1960 are taken from the official statistics, while the 1735–1799 part of the curve shows Adolph Jensen's estimated figures<sup>15)</sup>. The latter are derived from an estimate of population numbers for every year from 1735 to 1799 arrived at with the aid of the censuses and the episcopal reports of births and deaths, i. e. baptisms and burials<sup>16)</sup>. Adolph Jensen's population estimate for Denmark puts the

15. Adolph Jensen: *Befolkningsforhold i de nordiske Lande i det 18. Aarhundrede*, *Nationaløkonomisk Tidsskrift*, 1935, p. 1–63.

16. On the reports of births and deaths cf. p. 106.

**Fig. 2**

Percentage distribution of population in the Kingdom of Denmark in 10-year groupings at the population censuses of 1787 and 1801.



Persons aged 51 and over constituted:

|          | In Copenhagen | In the provincial towns | In rural areas | The difference between the percentage figures in the 11-20 and 21-30 groupings in Copenhagen fell between 1787 and 1801 from 8.1 to 6.8 and in the provincial towns from 3.4 to 2.5. |
|----------|---------------|-------------------------|----------------|--|
| 1787     | 14.0%         | 17.2%                   | 17.7%          |  |
| 1801     | 14.9%         | 18.1%                   | 18.9%          |  |
| Increase | 0.9%          | 0.9%                    | 1.2%           | Migration to the towns thus appears to have declined   |

Source: Danmarks Statistiks Bibliotek: Folketællingen 1787 (Folkehyliden 59b) and Folketællingen 1801 (Folkehyliden 102).

sum of immigration and emigration at nil. No similar estimate can be made of the Copenhagen population figures, since there was probably a certain level of net immigration into the city, indicated by the age-distribution at 1787 and 1801, cf. fig. 2. It is evident from fig. 1 that the birth rate for Denmark as a whole did not change significantly from 1735 to 1890, while the death rate was much less stable. Something of the same sort will certainly have applied to Copenhagen in 1730–1800.

The lists of births in Copenhagen published in the 18th century in fact show the numbers of baptisms, not the numbers of births, as is

revealed by a comparison with the surviving church registers<sup>17</sup>). The population figures before 1769 and for the years between the censuses are therefore computed by assuming that the average of the baptism rates<sup>18</sup>) that can be established for 1769, 1787 and 1801 were valid for the whole period. In order to avoid excessive significance being attached to fortuitous oscillations in the numbers of baptisms in particular years, in calculating the rates of baptism not only the numbers of baptisms for the three years have been used but also the averages for the three seven-year periods 1766–72 (for the census of 1769), 1784–90 (for the census of 1787) and 1798–1804 (for the census of 1801). The population of Copenhagen in 1730–1800 has then been computed by dividing a seven-year moving average of the numbers of baptisms for Copenhagen by the average rate of baptism, calculated from the three censuses.

The baptism figures for Copenhagen published in the 18th century were not free from error, however. In 1757, Josias Lorck asserted that the figures of births and baptisms at the maternity hospital were missing from the officially published figures<sup>19</sup>). The maternity hospital was founded in 1750 and moved to Frederiks Hospital in 1757<sup>20</sup>). The numbers of baptisms at the maternity hospital first appear in the contemporaneously published figures from 1767 onwards, where they are recorded under Frederiks Hospital<sup>21</sup>). Before being used to work out the size of population, the figures of baptisms for Copenhagen in 1730–1800 were corrected to allow for the missing numbers from the maternity hospital: this was effected partly with the aid of surviving church registers and partly with figures from the cited work of Josias Lorck<sup>22</sup>). The estimated population figures for Copenhagen in 1730–1800 are to be found in Appendix 1.02.

An idea of the margin of error contained in these estimated population figures can be formed in the following manner:

The population of Denmark as a whole can be estimated with a fair

17. A random sample comparison has been made between the church registers (LA Kbh) and the printed lists. For the archives in which the lists are held, cf. Appendix 1.02.

18. I. e., the number of baptisms per thousand inhabitants.

19. Josias Lorck: *Beyträge zu der neuesten Kirchengeschichte*, 1757, p. 655.

20. A. Stafeldt: *Kjøbenhavns Fødselsstiftelse, Indbydelsesskrift til Kjøbenhavns Universitets Aarsfest til Erindring om Kirkens Reformation*, 1887.

21. For the archives where the original printed lists are held, cf. Appendix 1.02.

22. On the correction, cf. Appendix 1.02.

degree of certainty back as far as 1735. The two scholars Adolph Jensen and Aksel Lassen both constructed their estimates with the aid of the population censuses and the episcopal reports of baptisms and burials<sup>23</sup>). Where there is a divergence between their respective estimates, this arises because of disagreement regarding the number of stillbirths counted among the burials and not among the baptisms. The widest gap between the two scholars' population figures, however, is 8 %<sup>24</sup>).

An estimate of the population of the whole of Denmark calculated in exactly the same way as the one above for Copenhagen produces figures whose widest divergences from the population estimates of Adolph Jensen and Aksel Lassen are 5 % and 9.4 % respectively<sup>25</sup>). If therefore the rate of baptism in Copenhagen evolved along the same lines as in Denmark as a whole, there is reason to believe the margin of error of the estimated annual population figures to be under 10 %.

## The social structure of Copenhagen

Even though the census after the fire of 1728 was conducted in conditions where it is to be assumed that part of the population of Copenhagen had temporarily fled, the census is still the best known source of the city's social and occupational structure in the first half of the 18th century. If any group is under-represented to a substantial degree it is probably the lower class (cf. p. 15).

When the census was published, the following summary was presented (cf. p. 22)<sup>26</sup>):

As is normally the case with statistics dealing with the occupational distribution of population, the non-actively employed proportion of the population is assigned to the occupation of the breadwinner; again, servants are assigned to the same occupational categories as their employers. In the table, the figures for the army and navy do not include

23. Adolph Jensen: *Befolkningsforhold i de nordiske Lande i det 18. Aarhundrede*. Nationaløkonomisk Tidsskrift 1935, p. 12.

Aksel Lassen: *Fald og Fremgang. Træk af befolkningsudviklingen i Danmark 1645–1960*, 1965, p. 530.

24. Calculated with the aid of Adolph Jensen: *Op. cit.* p. 12–15 and Aksel Lassen: *Op. cit.* p. 530.

25. As note 24.

26. G. L. Grove: *Kjøbenhavns Huse og Indvaanere efter Branden i 1728*, 1906, p. 49\*.

|                                | Members<br>of families | Servants    | Total        |
|--------------------------------|------------------------|-------------|--------------|
| Professional activities        | 4176                   | 1943        | 6119         |
| Agriculture                    | 26                     | 1           | 27           |
| Handicrafts and industries     | 14981                  | 1258        | 16239        |
| Commerce                       | 4423                   | 852         | 5275         |
| Navigation and fishing         | 2848                   | 193         | 3041         |
| Other transport services       | 513                    | 66          | 579          |
| Other and unstated occupations | 6019                   | 897         | 6916         |
| Pensioners and rentiers        | 865                    | 256         | 1121         |
| Paupers                        | 396                    | 20          | 416          |
| Jews                           | 282                    | 59          | 341          |
| Army and navy                  | 13516                  | 773         | 14289        |
| <b>Total</b>                   | <b>48045</b>           | <b>6318</b> | <b>54363</b> |

either military pensioners or servicemen disclosed by the census as simultaneously following another occupation. If these two groups are included, the number of servicemen becomes not 14,289 but 16,629, of whom 8,814 were in the navy and 7,815 in the army. Both aggregate figures, 14,289 and 16,629, include naval artificers <sup>27</sup>).

In some of the groups in handicraft and industrial occupations, a distinction was made between employed and self-employed categories when the census was published (see Appendix 1.03).

This shows that among carpenters and masons there were numerous journeymen to every master, and that most of the men did not reside in their master's dwelling. Journeymen-joiners, on the other hand, were much more likely to reside with their masters. It is absurd for the publisher of the census Grove to count mortar-men as independent; they can best be regarded, like the hodmen, as bricklayer's assistants, although they did receive higher wages than the latter <sup>28</sup>). Journeymen-smiths tended to reside with their masters, although there were eighteen smithies with more than five workers. Bakeries were quite large enterprises. Butchers and brewers had a certain amount of hired help, while distilling was almost entirely a one-man occupation, as were alehouse-keeping and huckstering. Shoemakers and tailors were numerous, and most of the journeymen lived with their masters.

The census of 1769 offers practically no information regarding the

27. *Op. cit.*, p. 39\*.

28. P: Københavns kærmerregnskaber and P: Københavnske kirkeregnskaber. Wages of mortar-men appear in invoices submitted by master-masons.

social structure of Copenhagen. This is the fault of the census form itself: it would have been no help to us even if the primary material had been preserved, since no more information could have been extracted from it than was done at the time (cf. Appendix 1.01). It is a further inconvenience that the lower ranks of the military, as already stated, were excluded from the census.

No category was accorded prior exemption from the censuses of 1787 and 1801, and considerably more information about those counted was collected than in 1769. Thus, in processing the census results it is possible to classify those counted as either in business on their own account or non-independent. The results for Copenhagen are set out in Appendix 1.04 and 1.05.

In processing the censuses of 1787 and 1801 no occupational subdivision was made of the artisan class, but there are in existence lists showing the numbers of masters, journeymen and apprentices in the various crafts at different times during the century<sup>29</sup>). These show that the ratio between the numbers of independent and non-independent workers in the various crafts remained largely as in 1728. There was a certain amount of change, however, in the proportions to which the various occupations were represented in the city. This arose from changes in technology, e. g., there gradually came to be more masons than carpenters, while in the first half of the century it had been the other way round.

In any study of wages it is essential that the remuneration in the occupation under review should not contain non-comparable elements such as board and lodging. It is with this in mind that the handicraft occupations selected for wages study are those of the mason and the carpenter. Unskilled labourers are also studied, since it appears from the censuses of 1787 and 1801<sup>30</sup>) that a very large proportion of these had their own families and therefore did not, presumably, reside with any employer.

It is difficult to arrive at any real social classification of the city's inhabitants using the censuses of 1787 and 1801, since a number of the groups contain people with rather different incomes. If the lower class is defined as: soldiers, sailors, merchants' and manufacturers' labourers and apprentices, craftsmen's journeymen and apprentices, shipmasters,

29. RA Danske Kancelli, D 124, and Frederik Thaarup: Udførlig Vejledning til det danske Monarkis Statistik II, 1812.

30. See Appendices 1.04 and 1.05.

fishermen and seafarers <sup>31)</sup>, farmers, innkeepers <sup>32)</sup>, servants, day-labourers, pensioners <sup>33)</sup> and paupers, this suggests a lower class comprising 72.4 % of the population in 1787 and 73.4 % in 1801. If from the lower class thus defined are deducted craftsmen's journeymen and apprentices, fishermen, shipmasters and seafarers, farmers and innkeepers, then those remaining constituted 53.5 % of the population in 1787 and 50.2 % in 1801. The former of the two definitions clearly includes persons who cannot be regarded as lower class; but on the other hand some of the categories not comprised in either of the two definitions must include people who were rather poorly remunerated. For example, the category of civil servants (*civile embedsmænd*, termed *borgerlige embedsmænd* in 1801) is so large that it must also include lower grades than would be termed *embedsmænd* today.

## Size of families

About a third of the population counted in 1728 consisted of children. The age-limit of this category is not stated, however <sup>34)</sup>. When the census was published, a careful study was made of the sizes of families in the various classes.

The editor Grove writes: "Nearly half of the journeymen residing independently were heads of families. In general these were small households with an average of 3<sup>1</sup>/<sub>2</sub> members each, while the married male masters had over 4 per household, and 3<sup>3</sup>/<sub>4</sub> even with the female servants deducted. Quite naturally the households of widows were even smaller than those of the journeymen, with an average of less than 3 members each. A large proportion of the seamstresses, spinsters and washerwomen either were single women or had insignificant households, so to each of these there was an average of only 2/3 of a dependant" <sup>35)</sup>.

Thus, Grove's calculations point to families being rather small, and one receives the same impression from calculations based on the censuses of 1787 and 1801. Appendices 1.06 and 1.07 show these calculations. Column I is the number of married men of 20 years and over per 1,000

31. Shipmasters, fishermen and seafarers are counted as a single group in processing the censuses, making it necessary to include shipmasters here.

32. In 1801: farmers and innkeepers, in 1787: other occupations.

33. Two-thirds of this group consists of females.

34. G. L. Grove: *Kjøbenhavns Huse og Indvaanere efter Branden i 1728*, 1906 p. 37\*.

35. G. L. Grove: *Op. cit.*, p. 44\*.

men of 20 years and over. It is apparent that many more of the independent classes of person were married than the non-independent. In 1787, for example, 813 out of 1,000 master craftsmen were married, but only 249 out of 1,000 journeymen. Sailors (probably including naval artificers) were married more than soldiers. The number of married soldiers declined from 1787 to 1801, but the military population of Copenhagen in 1801 does not allow of immediate comparison with the military population in 1787 because of the changed foreign policy situation. But the number of married journeymen-craftsmen rose from 1787 to 1801. At both censuses, a much larger proportion of day-labourers were married than journeymen. Artists' and manufacturers' labourers and apprentices (1787) and manufacturers' labourers and apprentices (1801)—i. e. industrial workers—were also married more commonly than journeymen-craftsmen, but less than day-labourers.

Column II shows the number of children aged 0–9 years in relation to the number of married women aged 0–49. The figures thus produced are naturally higher than those of the average number of children of 0–9 years in wedlock, since the children of widows, widowers and single women are also distributed among the married couples. But if the number of children were to be distributed among the total of married women, widows and widowers, the figure produced would be too low for the married couples and too high for the widows and widowers. However, the method of column II is quite misleading in those cases where a class contains a high proportion of widows with children, e. g. the pensioner class, or of widows and unmarried women, e. g. the pauper class. Otherwise it is apparent from column II that independent persons had on average more children than non-independent.

Since only ten-year age-groups have been employed in processing the two censuses, it is impossible to form any estimate of the number of children aged 10 years and over living at home. If the number of children and unmarried young people of 10–19 years is divided by the number of married women aged 0–59 years (column III), then for a number of classes the resultant figure is much too high. For example, in the category of craft journeymen and apprentices, the number of apprentices under 20 years of age is divided by the number of journeymen-marriages, and the result is therefore quite misleading. Since the unmarried women under 20 years of age in most occupational groups are assigned to them only by virtue of being maintained as dependants, the figure of unmarried women of 10–19 years in relation to that of married



women of 0–59 years is recorded in column IV twice over. Thus for example it can be seen that in the case of craft journeymen and apprentices there emerges in this way a figure quite different from that in column III, while the figure produced for day-labourers is not very much different from that in column III. Neither the method of computation in column III nor that in column IV permits of being applied to servants, since unmarried female servants under 20 years of age are here assigned to the class without being maintained as dependants. There were probably male servants under 20 years of age as well, since the result in note 1 to Appendix 1.06 is otherwise difficult to explain.

In broad terms these computations from the censuses of 1787 and 1801 reveal no essential divergence, and the conclusion to be drawn from them must be that, generally speaking, families were rather small. A married journeyman-craftsman or day-labourer on average had 1–2 children at home. This is in excellent accord with Grove's calculation from the 1728 census that a journeyman-craftsman's household consisted on average of  $3\frac{1}{2}$  persons. Since these figures may seem rather low, it should be noted that they reflect not how many children the household produced but how many it contained.

Generally speaking Copenhagen and the provincial towns had fewer children in relation to the number of adults than did rural areas. This is because of the immigration into the cities of persons of about 20–30 years of age, cf. fig. 2, (page 19). As shown in the diagram, the distribution of population in 1801 suggests a lower level of immigration in the years preceding than does that of 1787, which is in close agreement with the estimated population figure for Copenhagen (cf. Appendix 1.02).

### 3. The pattern of consumption

The average member of the population generally leaves behind him no written traces other than those arising from his contacts with public authorities. Any study of consumption in the 18th century must, therefore, be undertaken by indirect methods, for one cannot expect to find household accounts or similar data for the families of journeymen or labourers. In this study, two methods are used to elucidate the problem of food consumption. The first comprises an enquiry into what people received when they were fed at their places of work or in some institution where they were residing more or less voluntarily; the second invokes the aid of the consumption tax ledgers (*konsumtionsregnskaberne*) in investigating what foodstuffs were consumed by the inhabitants of Copenhagen as a body. The first method suffers from the defect that we do not know to what extent the combination of foods comprised in the ration scales corresponded to what people would have bought had they been able to decide the pattern of their food consumption for themselves. The second method has the disadvantage that to view the aggregate consumption of an entire city involves taking an average of very different types of consumption.

The consumption of food, however, is only a part of a family's consumption. If the present study is one-sided in concentrating upon the consumption of foodstuffs, this is due not only to the fact that the calculations show this item to have accounted for a very substantial proportion of the earnings of the lower classes, but also to the purely practical consideration that from a systematic scrutiny of the consumption tax ledgers it was possible to derive a quantitative statement of changes in the consumption of foodstuffs year by year as prices and supplies varied.

Of course, a more correct result would be obtained by constructing a complete budget and calculating a price index with its aid rather than by the method of the present study, whereby the price index is based upon a budget comprising foodstuffs and fuel only. However, the decision

to allow so much weight to food consumption was influenced by the fact that price movements in 18th century Denmark were of an entirely different order from those occurring in a modern society.

While the prices of handicraft and industrial products rose steadily throughout the period, those of foodstuffs oscillated violently as a result of changes in the volume of production dictated by natural conditions. In a modern society consumption changes relatively slowly under the influences of supply, prices and rising incomes, but in the 18th century, the same food budget could become 20 or 30 % dearer within a twelve-month, without any rise in wages; then, a year or two later, prices could fall to their original level again.

In such a situation a price index is an extremely theoretical concept. When the price index shows the budget to have become 20 or 30 % dearer, this is of course correct, but the budget itself has lost relevance because such violent price rises must necessarily entail changes in consumption; put more precisely, prices rose until sufficient people modified their consumption, for higher prices could increase the supply to only a limited extent.

Of course, the problem of a changed pattern of consumption following upon changes in prices is encountered when computing price indices in the Denmark of today as well, but it was of far greater importance in 18th century Copenhagen, when short-term price fluctuations were very much wider. That is why such stress is laid upon the study of the consumption tax ledgers so as to measure the changes in consumption.

By dealing only in terms of food (and to some extent fuel), one important problem is left unresolved. Where did a journeyman or day-labourer and his family live, and how large was his outlay on housing? While it was possible in years of high food prices to delay in some degree the procurement of clothing and footwear, this was not the case, naturally, with housing costs. The problem of the level of rents is absolutely crucial, and since it may be assumed at once that the two great fires of 1728 and 1795 brought higher rents in the years following, there is no reason to believe that the proportion of wages taken by rent was constant throughout the epoch.

In support of the assertion that prices of handicraft and industrial products moved relatively sedately, a series of appendices has been constructed showing the price movements of clothing, footwear, soap and lighting.

In any study of price history a vital problem is whether the prices

recorded at different points in time refer to the same grade of article. This problem is very intractable in the case of textiles, since here the concept of quality embraces not only the width of the material, the thickness of the thread used and the closeness of the weave, but also the colour and pattern. The price data on textiles found in the Copenhagen probate records are useless, since the qualities are incapable of being compared <sup>1</sup>). Instead, a selection has been made of the purchasing transactions of the Royal Danish Navy. These have the advantage that the same commodity is bought for the same purpose over a number of years and in fairly uniform quantities year by year; furthermore, notes as to quality (e. g., width of material) are made on receipt of the goods.

Appendix 1.11 shows the price movement of white or bleached linen shirts purchased in 1728–1800 for prisoners at Christiansø or for seamen. It appears that no fall in prices occurred between 1730 and 1800 apart from the years 1743, and 1794–97, but that prices did go up at intervals. When such a price trend is characterised in the foregoing as “rising steadily” despite the fact that between 1763 and 1764, for example, prices went up from 80 to 88 *skilling* per piece, thereafter remaining constant until 1781, this must be understood in the context of the pricing system of those days. In the appendix the prices are shown in *skilling*, it being most convenient to use *skilling* exclusively for computation purposes, but *skilling* were employed to only a very limited extent as the pricing unit in the 18th century. When a price of the order of magnitude of those in Appendix 1.11 varied, it was by a half or a whole *mark*, i. e. 8 or 16 *skilling*.

Appendix 1.12 shows the prices for Flensburg or Russian sailcloth, which was used as working clothes for naval seamen and artificers. The price shown is for one roll of sailcloth measuring 24 inches by 52 ells. It took  $8\frac{1}{3}$  ells to make one uniform <sup>2</sup>). In those cases where the material did not maintain the desired width, prices were reduced in proportion to the deficiency, as for example on 23 august 1729:

31 rolls of 24 inches at 4 rix-dollars 48 *sk.* per roll  
 8 rolls of  $23\frac{3}{4}$  inches at 4 rix-dollars  $43\frac{1}{2}$  *sk.* per roll  
 11 rolls of  $23\frac{1}{2}$  inches at 4 rix-dollars 39 *sk.* per roll<sup>3</sup>)

1. P. Københavnske skrifter.

2. RA Søetaten. Kommissariatskontoret. Indkøb og udlevering. Indtægtsbog på adskillige materialer 1745–49: 30/2 1747.

3. RA Søetaten. Kommissariatskontoret. Indkøb og udlevering. Indtægtsbog på adskillige materialer 1728–31.

If the material was wider than 24 inches, the price was increased in proportion to the surplus <sup>4</sup>). Between 1730 and 1775 only two prices occur, 442 *sk.* per roll in 1730–45 and 480 *sk.* per roll in 1746–75. Even though large consignments are involved here, so that the supplier may therefore have been willing to absorb minor price increases himself in order to retain the contracts, nevertheless this demonstrates an extremely stable price level.

The same body of data contains prices of uniform cloth delivered to the Royal Navy, but this was supplied for preference by the state draperies, and one therefore cannot be certain that market prices were applied.

Appendix 1.13 shows the price movement of shoes bought by the Royal Navy for seamen or for the Christiansø prisoners. At the beginning of the epoch one grade was bought for prisoners and another for seamen. This practice ceased between 1741 and 1746, and from then on there was only one grade. Whether the latter corresponds to one of the grades bought in 1729–41 is impossible to say. The prices are unaltered for a long period of time, then they are changed in multiples of  $1/4$  *mark*. It may be remarked as a postscript to this price series that boy's shoes bought by the Royal Orphanage (*Vajsenhuset*) in 1777 cost 68 *sk.* per pair (irrespective of size), in 1792 76 *sk.* per pair and in 1798 80 *sk.* per pair <sup>5</sup>).

Appendix 1.14 shows the price movement of boots bought by the Royal Navy. These boots carry such varying descriptions as: waterproof boots, ice-boots, boots for dredger hands, or simply seamen's boots. However, the prices are quite uniform irrespective of the description. In 1729–87 a pair of boots cost 384 *sk.* less  $1\frac{1}{3}$  % discount, except during 1745–51, when they only cost 320 *sk.* less  $1\frac{1}{3}$  % discount.

Appendices 1.15–1.17 shows the price movement of lighting materials. The price of certain of these articles oscillates like those of foodstuffs, since the articles are similarly of organic origin.

Appendix 1.15 shows the price of fish-oil for lighting bought by the Royal Navy. The scale of these purchases is quite small. The gross price is the same throughout the period, but because the discounts fluctuate the net price changes. However, this can be interpreted only partially

4. RA Sjøetaten. Kommissariatskontoret. Indkøb og udlevering. Indtægtsbog på adskillige materialer 1761–1765: 25/6 1761.

5. RA Vajsenhuset, a bundle with diverse appendices containing accounts before the year 1800.

as constituting variations in the price of fish-oil, since a whole range of articles—e. g., paper, ink, white soap, pencils, turpentine, oil and fish-oil—are bought from the same dealer and the discount is allowed in the consolidated annual account for all these goods.

Appendix 1.16 shows the price movement of tallow candles according to the Copenhagen municipal Treasury ledgers (*københavnske kærnerregnskaber*). This price series shows prices fluctuating as for foodstuffs, since the price of tallow is dependent upon natural variations in the volume of production. Moulding costs constituted only a limited proportion of the selling price of tallow candles: in 1735, for example, the Royal Navy purchased tallow for candle-moulding at 188 *sk.* per *pund* less  $1\frac{1}{3}$  % discount, while the cost of moulding was only 17 *sk.* per *pund* less  $1\frac{1}{3}$  % discount <sup>6</sup>).

Appendix 1.17 shows the price movement of wax candles according to the Copenhagen municipal Treasury ledgers. Although one might expect price fluctuations similar to those for tallow candles, these only occur after 1769, while between 1731 and 1769 the price only changes from 1740 to 1741.

Appendix 1.18 shows the price movement of green soap from 1729 to 1800. Even though the appendix in fact only contain one price series, the latter embraces the three types of price data normally dealt with in price history, since the series comprises purchase prices culled from a ledger, market prices according to price-currents, and official prices fixed by a public authority. The first column shows the Royal Navy's buying prices and the second the Copenhagen market prices. In the years 1770–'79, the Royal Navy's buying price is half a *mark* above the market price, but in the years 1748–69 and 1780–92 the prices coincide. This is because both the price series follow the official rate. In the Royal Navy's Receipts Journal (*Søetatens Indtægtsbog*) for sundry materials there is a note relating to the purchase of 1744: "payment to be effected in accordance with the Magistrates' rate as usual"; and in respect of the purchases of 1782 and 1785–89 notes are made of the decrees fixing the official prices. The market price reported, too, followed the decrees. Apparently no official price was fixed in 1795–96, since in those years the market price fluctuated from month to month <sup>7</sup>).

The archives of the Royal Orphanage (*Vajsenhuset*) contain accounts

6. RA Søetaten. Kommissariatskontoret. Indkøb og udlevering. Indtægtsbog på adskillige materialer 1735–37: 4/10 and 25/10 1735.

7. Cf. Appendix 1.18.

for green soap purchased in 1792 and for two more purchases in 1798. One of the purchases of 1798 was effected at the reported market price while the purchase of 1792 took place at 18 *sk.* below and the second 1798 purchase at 12 *sk.* above the reported market price<sup>8)</sup>. There is nothing remarkable in the fact that the officially reported market price followed the officially controlled price, but it is worthy of note that the Royal Navy was able to buy at the official price while the prices in the three surviving accounts from the Royal Orphanage exhibit the spread described above.

8. RA Vajsenhuset, a bundle with diverse appendices containing accounts before the year 1800.

## 4. Institutional fare

The fare provided for inmates of institutions cannot be assumed to be identical with the food consumed by corresponding social groups outside those institutions. However, the diets inside and outside institutions must have certain basic features in common, determined by prices, the supply factor and elementary human needs. It is true that persons outside the institutions did have a free choice of diet to some degree, but for those on the lower rungs of the social ladder this choice was limited by the fact that the necessities of life had to be furnished from a rather modest sum, just as the institutions had to feed large groups as cheaply as possible.

### The Victualling of the Navy

In peacetime the fleet was manned by the recruitment of volunteers, which means that the transition to institutional feeding took place voluntarily. When the fleet was at sea, the crews were victualled according to the “victualling scale afloat” (*søspisetakst*); ashore they were supplied with food according to the “victualling scale ashore” (*landspisetakst*). Ashore, also, the seamen were able to use their pay to supplement or vary to some extent the fare comprised in the *landspisetakst*, and they might, too, share the rations they received with their wives and children. But the *søspisetakst* may be regarded as an index of what was thought a suitable diet for a male adult engaged in manual labour and whom it was desired, for military reasons, to maintain at full working efficiency.

Appendix 1.21 shows the Navy’s victualling scales afloat for 1680, 1736, 1752 and 1794, and the interim scale for 1802. In terms of calories, the 1736 scale provided about 5640 kcal. per man per day, that of 1752 about 5500 kcal., and the 1796 and 1802 scales about 5000



kcal.<sup>1)</sup>). Although these values thus were falling, nevertheless even in 1796 and 1802 the calorie intake assigned to a seaman was considerable. A reasonable calorie intake for a male adult manual worker may be regarded as about 3200 kcal. per day<sup>2)</sup>). It may be noted by way of comparison that the victualling scale of the English Navy provided 5500 kcal. per man per day in 1745 but only 2900 in 1811<sup>3)</sup>). The proportions of the calorie intake of the victualling scales afloat derived from animal products were:—

|        |        |        |        |
|--------|--------|--------|--------|
| 1736   | 1752   | 1794   | 1802   |
| 38.5 % | 40.0 % | 39.5 % | 36.5 % |

Since in the 18th century, too, calories derived from animal foodstuffs were several times more expensive than calories from vegetable foodstuffs, these percentages may be thought of as representing in some measure the quality of food-rations, measured by value, regarded from the standpoint prevailing in the 18th century. It may be observed, however, that in addition to animal products the scale of 1802 also contained relatively expensive vegetable products such as treacle and prunes. *Brændevin* (Scandinavian gin) is classed as a vegetable product, although its production process entailed such a heavy loss of calories that it corresponded more closely to animal products, which also were produced from vegetable products with a large loss of calories<sup>4)</sup>).

The modern physiological approach is to compare calorific values with protein content and vitamin and mineral intakes. Bearing in mind the limited knowledge we have of the quality of comestibles in the 18th

1. Kcal. = kilo-calorie = 1000 gramme-calories. The gramme-calorie is a unit used in physics. Kilo-calories are used in physiology, often being loosely referred to simply as calories.

In these as in all subsequent calorie-computations it is assumed that the beef and pork were of very fatty quality. Regarding the conversion factors generally, see Appendix 2.96. However, in respect of the victualling scales afloat, a special calculation is made of the calorific value of *hartbrød* ("hard bread": a kind of bread-biscuit) which was a specially dry variety and therefore had a high calorie-content per unit of weight. The calculation of the calorific value of one *pund* of *hartbrød* is based on the amount of corn used in baking it: cf. Københavns Stadsarkiv: Bagerlauget, Protokol ang. kgl. Majs commis og hartbrødsbagning 1709–26, 41, 55; see esp. 24/6–5/9 1741.

2. FAO Nutritional Studies No. 5: Calorie Requirement, Washington, USA 1950, p. 39. For the age-group 16–19, however, the figure is about 3800 kcal.
3. J. C. Drummond and Anne Wilbraham: *The Englishman's Food*, sec. ed., London 1958, p. 467.
4. On the technology of *brændevin*-distilling, cf. Lars Rumar: *Jordbrug og brændevinsbrænding*, *Erhvervshistorisk Årbog* 1966, p. 12 ff.

century, any attempt to estimate the precise vitamin and mineral contents of the food would be beset with far too many imponderables, although it is self-evident that the diet afforded by the victualling scales afloat, consisting of smoked pork, salt beef and no vegetables but a large amount of cereal products, was extremely deficient in vitamins <sup>5</sup>). A computation of the protein content of the diet indicates between 100 and 150 grammes per man per day; which is more than sufficient for a male adult. Of this protein intake, 40–60 grammes consisted of animal protein <sup>6</sup>).

The variations in the proportions of the victualling scales afloat represented by the different groups of commodities are, as Appendix 1.21 indicates, broadly identical with the variations in the consumption of Copenhagen as a whole, which are revealed by the consumption tax ledgers <sup>7</sup>). The cardinal feature is that throughout the period, bread supplies a very large proportion of the calories. Ale provided a high proportion too, but its share was declining. It should be remarked, however, that the quantity of ale in the victualling scales afloat up to 1752 inclusive does not allow of immediate comparison with the quantities for 1794 and 1802, for two distinct grades of ale are involved inasmuch as the ale is described as ship's ale (*skibsøl*) until 1752 and as 4-dollar ale (*4 dalersøl*) in 1794 and 1802. The fact that two grades are involved is evident from the victualling scale of 1794, in which it is stated that if ship's ale is issued in place of 4-dollar ale, the quantity issued is to be doubled <sup>8</sup>). In 1794, if 4-dollar ale is replaced by ship's ale, the issue is 17 *potter* of ship's ale weekly per man, compared with 17.25 *potter* in 1752 and 20 *potter* in 1680 <sup>9</sup>). It should be noticed in regard to the reduction of the ale allowance that while the victualling scale afloat of 1680 did not include *brændevin*, those of 1736 and 1752 included 0.250 *pot* and those of 1794 and 1802 0.437 *pot*.

In the scales of 1736, 1752, 1794 and 1802 the quantities of beef and pork remain constant. The scale of 1680 contained less pork and

5. The victualling scales afloat do not state directly that the pork was smoked and the beef salted, but this is apparent from the ships' fitting-out journals; cf. RA, Søetaten: 3. departement, Udgiftsbog for landkosten (sic!) 1784–94, e. g., 5/5 and 14/5 1784.
6. Cf. Rich. Ege: Fødevarer- og ernæringstabeller, 1963, skema A (USA Nutrition Board 1958).
7. Cf. chap. 5.
8. Cf. Appendix 1.21, note 6.
9. The quantity of ship's ale was reduced to 17.25 *potter* as early as 1711, when the victualling scale afloat was revised: cf. Kristof Glamann: Bryggeriets historie i Danmark, 1962, p. 11.

beef but considerably more Bergen fish (*Bergensfisk*). It may be noted, finally, that prunes and treacle first appear in the victualling scales in 1802.

Although the quantities of victuals taken on during a vessel's fitting-out might comply with the requirements of the victualling scale afloat, as the voyage proceeded they could deteriorate in quality to the point where the diet became less satisfying—if indeed they were not already at this point when supplied. The crew had only limited opportunities to make complaint, however. For example, in the naval articles of war of the year 1700: “No one, whether an officer or common seaman, shall, for the purpose of reforming or disparaging the conditions and regulations in force, proclaim in what manner a vessel's discipline, feeding and working may be elsewhere conducted”, on pain of being put in irons for eight days, lashing on the body, or death <sup>10</sup>). However, some bounds were set on what might be fed to the seamen; according to the naval articles of war of 1752 bread was inedible “when the pieces are so small that they cannot be bitten, but are crumbs” <sup>11</sup>).

### The diet in hospitals and orphanages

The foundation in 1757 of the Frederik hospital gave Copenhagen its first hospital in the modern meaning of the word. Even though the hospital's first victualling scale is not drawn up with sufficient precision to enable a calorie computation to be made from it, it does show what was regarded as a sound diet from a medical standpoint (cf. Appendix 1.22). The diet contained 125 grammes daily of beef without bone in soup with a variety of vegetables, and in addition one *pund* of bread, as well as butter and three *potter* of ale at 8 *mark* per *tønde*. The latter was the middle of the three grades of ale <sup>12</sup>).

In the military orphanage and rest home known as *Frederiks plejehus*, too, much reliance was placed on vegetables shortly after its foundation. For the year 1766 there is a summary of the aggregate expenditure on comestibles classified by commodities, cf. Appendix 1.23. At that time the institution only took the orphan children of soldiers, but later on it

10. *Sjõe-Artikler og Krigs-Rets Instruction, hvorefter Wi Friderick den Fjerde etc.*, 1700, § 32.

11. *Kong Friedrich den Femtes Sjøe-Krigs-Artikels-Brev*, 1752, § 319.

12. Cf. Kristof Glamann: *Bryggeriets historie i Danmark*, 1962, bilag B.

also accepted aged ex-soldiers and their wives<sup>13</sup>). In 1766, 35 % of expenditure was accounted for by animal products: meat, fish, butter, fat, cheese, eggs and milk; 31 % by bread; 21½% by meal, ale and other cereal products; 7 % by turnips, cabbage and other vegetables. The remaining 4½% went on treacle, sugar, salt, tea and spices.

In 1773, the feeding arrangements at this institution (now re-named *Christians plejehus*) are described in the following terms: “Meals are served here three times a day at long tables in two large halls. In the morning tea with milk is given and a piece of bread therewith; at midday a good meal of soup with meat and bread; in the evening bread and butter or bread and dripping with ale. The food left over from midday is usually warmed up and given to the children in the evening. It is found most convenient not to have the meals fixed for every day in the week but rather to vary the diet each day according to the time of year, viz. to have in summer many greenstuffs and garden herbs, peas with pork, cabbage with meat, potatoes, broths, porridge, gruel etc.”<sup>14</sup>). This is a glossy picture painted by the institution’s board of management, but the distribution of purchases in 1766 as between the different commodity-groups does nevertheless indicate quite a judicious variety of fare, even if one cannot tell what amounts people received.

13. Underretning om det til gamle Soldaters, Soldaterenkers, samt Fader- og Moderløse Soldaterbørns Pleye og Opdragelse allernaadigst oprettede Christians Pleyehus i Kiøbenhavn, 1773, p. 16.

14. Op. cit. p. 32 f.

## 5. The consumption tax ledgers as a source of the level of consumption in Copenhagen 1730–1800

The customs duty and consumption tax were among the most important revenues of the Danish state in the 18th century, and for this reason comprehensive ledgers were maintained at the customs and consumption tax offices<sup>1</sup>). Only a few of the ledgers have survived, and while the importance of the customs and consumption tax ledgers in forming an idea of the condition of the public finances in the 18th century cannot be doubted, it is an open question to what extent they are usable for assessing the volume of consumption.

In Copenhagen, consumption tax was paid at the city gates on imported foodstuffs and certain raw materials, at the custom house on such merchandise when imported by sea, and in the form of the milling dues in the city itself when grain was milled or ground<sup>2</sup>).

1. There is a statement of the proceeds of the Copenhagen customs tolls and consumption taxes in each year of the records discussed in note 2. Further, the records for 1780 contain a statement covering the years 1721–57. The years 1754–80 are covered by a statement in RA Mallingiana: Told og konsumption København. On the importance of the customs and consumption tax revenues to the public finances, see Hans Chr. Johansen: Dansk økonomisk politik i årene efter 1784, vol. 1, 1968, p. 87 ff.
2. On the consumption tax levy generally see Helge Nilsen and Victor Thalbitzer: Skatter og skatteforvaltning i ældre tider, 1948, p. 13 ff, and L. V. Birck: Told og Accise, 1920, p. 128 ff.

The Copenhagen consumption tax ledgers are with the customs ledgers in the series: RA GenToldkamm: Reviderede regnskaber; København; Antegnelser, ekstrakter m. v. These ledgers have been scrutinised for the period 1730–1800. A year is usually covered by a single bundle, but there may be several bundles and volumes in years, where the customs and consumption tax books themselves are preserved. In the subsequent text dealing with the Copenhagen consumption tax ledgers and in the appendices with the initial digits 2.1–2.7, all the information is culled from this series of records, and within the series from the year to which the information relates. Notes are only made if, for example, information about 1782 is found under the year 1783 etc., or if information from sources other than the above-mentioned series of records is included.

At each of Copenhagen's four gates there was a consumption tax office. Here a consumption tax book was maintained in which an entry was made for each individual passing through the gate with taxable articles, recording the quantities of the various commodities and the amount paid in consumption tax. Since goods were recorded not by categories but in succession as they passed the gate, there were no running totals of the quantities of the various commodities passing the gate in a given period of time, but at the end of the year an abstract was worked out and entered in the last volume of the consumption tax books for the relevant year. The abstract comprised an alphabetical list of the different commodities with details of the quantities imported and the corresponding sums of consumption tax, and a summary showing the total of these sums.

Goods in transit through the city passed free of charge, but checks were made to ensure that they really did go through. If upon entry goods were not declared for re-export, consumption tax had to be paid on the import, but the tax could be refunded upon re-export, though only if the quantities involved exceeded certain minimum levels. Irrespective of whether the merchandise was re-exported by sea or by land, repayment of consumption tax was effected at the custom house against certification that it had actually been removed. The quantities of goods recorded in the gate abstracts agree with the sums paid in to the exchequer. The quantities of goods in the gate abstracts are thus gross imports. This system was changed from 1 January 1796 onwards. After that time the refund of consumption tax in the case of overland re-exports was effected at the gate through which the goods were re-exported, and from 1797 onwards abstracts for re-exports through the North Gate have survived in addition to the normal import abstracts. It is evident from these that re-exports distributed themselves among the commodity-groups in roughly the same manner as for imports. Reckoned according to the sums paid in consumption tax, re-exports through the gates represented the following percentages of imports through the gates <sup>3)</sup>:

|      |        |
|------|--------|
| 1796 | 4.55 % |
| 1797 | 5.20 % |
| 1798 | 5.51 % |

3. Cf. the records mentioned in note 2 p. 38 and Ordinances of 31/12 1700, 26/11 1768, 15/10 1778 and 1/2 1797, and RA GenToldkamm. VA II, p. 271, Københavns Told- og konsumtionskontor, kopibøger 1795, nr. 1719.

|      |        |
|------|--------|
| 1799 | 6.27 % |
| 1800 | 6.17 % |

If foodstuffs were imported into the city by sea, they were liable to consumption taxes at the custom house, where, as well as the customs ledgers, consumption tax ledgers were kept as at the gates. In the abstracts of imported goods liable to consumption tax drawn up at the custom house at the end of the year, there is no record of the amount of consumption tax paid on the goods. Therefore there is no immediate indication as to whether the quantities of goods recorded in the abstracts are the net or the gross import. An estimate has therefore been made of how much the consumption tax would amount to on those quantities of goods recorded in the custom house abstract for the year 1769. That year was selected because in the previous year a new consumption tax ordinance was promulgated with a complete tariff <sup>4</sup>). The calculation produced a sum very close to the consumption tax on imported goods before deduction of refunded consumption tax on re-exports, which means that the abstract from the custom house consumption tax ledgers for 1769 shows the gross imports for that year. The same is probably true of the other years in the period 1730–69 where the custom house abstracts have survived, since in those cases the same practice will have been followed at the custom house as at the gates. As has been said, consumption tax refunded on overland re-exports before 1796 was paid out at the custom house. In the period 1730–69 the aggregate consumption tax refunded annually on re-exports by land and sea was 2–4 % of the aggregate consumption tax paid upon imports by land and sea.

In the case of unmilled rye, wheat and barley no consumption tax was paid on imports via the gates or by the sea. To offset this it was compulsory for all milling to take place at the public mills, and a fee had to be paid that was dependent upon the purpose for which the grain was being milled. It was cheaper to have grain milled for use as bread than for distilling, and therefore there were regulations to the effect that bakers could not simultaneously be distillers, and so on <sup>5</sup>). Before grain was milled, consumption tax notes had to be obtained from the milling-consumption tax office (*Maleværket*). A double set of consumption tax ledgers was kept at the milling consumption tax office, and from each

4. Ordinance of 26/11 1768.

5. Ordinances of 31/12 1700, 17/5 1762, 26/11 1768, 15/10 1778 and 1/2 1797.

set an abstract was drawn up at the end of the year showing the quantities of the different sorts of grain milled for the various purposes. If milled grain was imported through the gates or by the sea, the same amount was paid in import consumption tax as would otherwise have been paid in milling consumption tax.

Only a very few of the consumption tax books from the gate offices, the custom house and the milling consumption tax office have survived, but when the consumption tax books themselves were destroyed the back pages containing the abstracts were very often torn out and preserved. A series can be constructed for imports via the four gates, viz. the Christianshavn Gate and the West, North and East Gates, covering the period 1730–1800, since only a very few abstracts are lacking. The West Gate abstracts have the most gaps, but only in one case are the abstracts for two successive years missing. Of the custom house abstracts for 1730–69, only 1730 is missing, but there are no complete abstracts from the period 1770–1800<sup>6)</sup>. Nevertheless certain means exist for forming an idea of the imports via the custom house in the latter period, since information about imports of the most important commodity-groups during some of the years is available in a number of places. The following are the sources used:

|                      |   |
|----------------------|---|
| 1774                 | Imports and exports of grain and peas <sup>7)</sup>                 |
| 1779, 1782 and 1783  | Imports and exports of the most important food-stuffs <sup>8)</sup> |
| 1787–89              | Imports of grain <sup>9)</sup>                                      |
| 1792–1802            | Imports of grain <sup>10)</sup>                                     |
| 1795                 | Imports and exports of grain <sup>11)</sup>                         |
| Sept. 1801–July 1804 | Monthly statements of grain imports and exports <sup>12)</sup>      |

6. However, for some years in the period 1788–1800 the milling consumption tax figures have had to be taken from an account of corn-milling found in RA GenToldkamm (VA II, p. 278), »Beregninger over de i København formalede samt ind- og udførte kornvarer«. In those years where milling figures exist both in this account and in the surviving milling consumption tax office summaries, they are in close agreement.

7. GA GenToldkamm: rev. regnsk; København; antegnelser, ekstrakter m. v. 1775.

8. RA GenToldkamm: rev. regnsk; København; antegnelser, ekstrakter m. v. 1782–83.

9. RA GenToldkamm: rev. regnsk.: København; antegnelser, ekstrakter m. v. 1789.

10. RA Mallingiana, Handel 1.

11. RA Mallingiana, Handel IV E.

12. RA GenToldkamm (VA II, p. 278), Beregninger over de i København formalede samt ind- og udførte kornvarer.



|      |   |
|------|---|
| 1805 | Monthly statements of grain imports and exports <sup>13)</sup>  |
| 1805 | Incomplete series of weekly statements of imports and exports of animal products via the Copenhagen custom house <sup>13)</sup> |

Using these sources, an estimate has been made of food imports by the sea in 1770–1800. That it has been possible to do this with a fair degree of reliability is primarily because it is only the net imports of animal products and milled grain passing through the custom house that need to be looked at. Unmilled grain, as already stated, was free of consumption tax upon import, but became liable on being milled. The sources listed tend to suggest that imports by the sea held a fairly constant level, while imports through the gates were rising. The estimated value of imports by the sea, expressed in calories, represented about 25 % of the aggregate tax-liable and tax-exempt consumption registered in Copenhagen <sup>14)</sup> in 1770, but fell to about 21 % in the 1790s. If the margin of error of the estimated imports via the custom house is put at 40 %, this makes a margin of error for aggregate consumption according to the consumption tax ledgers of between 10.0 % and 8.4 % in the period 1770–1800.

The appendices with initial digits 2.1 to 2.7 have been constructed using the abstracts of the gate ledgers for 1730–1800 and the custom house abstracts for 1730–1769. For the period 1730–69, aggregate imports, both by land and by sea, have been totalled up. For the period 1770–1800, the totals embrace only imports by land, since the estimates of imports via the custom house are not included in these appendices. In all cases the import figures are gross, as was stated on p. 40. For years where the abstracts are missing, figures are derived by linear interpolation. Interpolated figures are indicated by square brackets. Square brackets are also used where more than 10 % of the totals are derived from interpolated figures.

After establishing series for the consumption registered in the consumption tax ledgers, the principal problem is what sort of proportion the consumption of foodstuffs on which consumption tax was paid bore to total consumption of foodstuffs. The consumption tax ledgers were established chiefly for the purpose of preventing consumption tax of-

13. RA GenToldkamm (VA II, p. 276), Fortegnelse over de ind- og udførte korn- og fedevarer fra Københavns og Bornholms toldsteder 1805.

14. On tax-free consumption in Copenhagen cf. p. 43.

officials from defrauding the state, and the commodity abstracts are a by-product of these ledgers. It is possible that the construction of commodity abstracts too was required primarily for control purposes and only secondarily in order to obtain figures of the movement of goods. When the proceeds of consumption tax fluctuated, the Customs Department (*Generaltoldkammeret*) was able to see with the aid of the commodity abstracts what changes in imports of merchandise had caused the changes in the consumption tax yield and to judge whether they were likely ones or whether the changed yield was attributable to fraud on the part of the consumption tax officials.

The precision of the link between the commodity abstracts and the consumption tax ledgers means that certain of the figures in the abstracts are rather misleading as import figures, since there were occasions when no consumption tax was payable on an imported commodity; for example, the quantity of imported wood-fuel according to the custom house consumption tax abstracts does not represent the total imports by sea but only that portion arriving from inland sources, since foreign wood-fuel was exempt from consumption tax. The custom house abstracts record only the import of so-and-so much wood-fuel, and there is no indication that this figure refers only to the proportion of imports liable to consumption tax <sup>15</sup>). In the following cases it has been established that the commodities were not liable to consumption tax and therefore went unrecorded in the normal abstracts <sup>16</sup>).

1. The following categories were exempt from consumption tax upon milling:

- 1.1 Milling of grain destined for export by companies privileged by charter, e. g. The Iceland Company.
- 1.2 Milling of rye for the army garrison's bread.
- 1.3 Milling of grain for victualling the fleet and for supply to naval seamen and artificers as shore rations.

2. The following were exempt from consumption tax on import:

15. That the custom house summaries only cover imports of wood-fuel from inland may be confirmed by comparing them with a list in RA *Gentoldkamm: rev. regnsk.*; København; *antegnelser, ekstrakter m. v. 1769 A*. This list was compiled by the Customs Department in 1770 and shows the total imports of wood-fuel, distinguishing between supplies from abroad and supplies from inland. The list was constructed from both the consumption tax books and the port books.
16. The basis for this consists of the sources cited in appendices 2.81–2.82 and the ordinances of 31/12 1700, 17/5 1762, 26/11 1768, 15/10 1778 and 1/2 1797.

- 2.1 Foodstuffs imported for victualling purposes or for export by chartered companies.
- 2.2 Commodities from Iceland, Finnmark, Greenland and the Faroe islands.
- 2.3 Peas for the navy.

Since the object of this study is to enquire into consumption in Copenhagen, it is an advantage that commodities imported or milled for the purpose of being exported by the chartered companies are not included in the abstracts and therefore do not figure in the computations of the city's aggregate consumption undertaken in this work. It has been possible to determine the annual quantities of tax-free milled rye for the Copenhagen garrison, cf. Appendix 2.81. On the other hand no attempt has been made to ascertain any figures for free-milled grain supplied to naval vessels, since such grain was not consumed in Copenhagen, although figures have been worked out, with the aid of the naval ledgers, for free-milled rye and malt supplied to naval seamen and artificers as shore rations, cf. Appendix 2.82. Butter, pork and beef consumed by the navy as shore rations and as victuals for its ships appear not to have been tax-free since no free-import orders for these commodities for the navy are to be found in the books in which the Treasury, (*Rentekammeret*), and after 1760 the Customs Department, (*Generaltoldkammeret*) registered such orders. In these books there are free-import orders for the chartered companies and free-milling orders for milled rye for the city garrison and for the victualling of naval vessels<sup>17</sup>). Further, the navy's contracts with purveyors of butter, pork and beef do not indicate any exemption from consumption tax to have been conferred upon the import of these commodities<sup>18</sup>). Thus it is probable that butter, pork and beef for the victualling of naval vessels and as shore rations for naval seamen and artificers are contained within the ordinary consumption tax ledgers and therefore in the abstracts on which appendices 2.1–2.7 are based. However, the proportion of the navy's consumption of beef, pork and butter used for victualling ships and not as shore rations was relatively small, since on average seamen were only actually afloat for about a tenth of the year<sup>19</sup>). The navy's consumption of tax-free imported peas is shown in Appendix 2.82.

17. See the archives referred to in Appendix 2.81 column 3.

18. RA Sjøetaten Kommissariatskontoret, Kontraktkopibøger. E. g., 27/12 1792.

19. This is evident from the malt-ledgers and (later) malt-money ledgers. Seamen

Commodities imported by the chartered companies from Iceland, Finnmark, Greenland and the Faroes in 1730–50 are specially recorded in the abstracts of the custom house consumption tax ledgers. No consumption tax being paid on the import of these commodities, it follows that there was no tax refund on re-export; therefore re-export of these commodities is not registered in the consumption tax ledgers at all. All the commodity abstracts of the custom house customs ledgers for the year 1750 are extant. These show that there was quite an extensive re-export of dried fish, while Icelandic mutton more usually remained in Copenhagen. Even though the meat situation in 1750 was still rather tight such a comparatively short time after the cattle plague outbreak of 1746 (cf. e. g. Appendix 2.311), and the consumption of Icelandic mutton may therefore have been larger than normal, the difference between gross imports and re-exports in 1750 has been used as a basis for calculating the calorific value of imports of consumption tax-free mutton and dried fish for the whole period, since no better information is to be found <sup>20</sup>).

Food produced inside the city walls was not recorded in the consumption tax ledgers either. Probably its most important feature consisted of the large number of distillery cows. To some extent the numbers were known, since under the municipal cleansing system owners had to declare to the cleansing department how many cows they had and were then required to cart away a certain quantity of dung per cow each year, being checked by the cleansing department as having done so <sup>21</sup>). The figures for the following years are all that survive in the cleansing department's archives:

|      |      |          |
|------|------|----------|
| 1766 | 30/3 | 922 cows |
|      | 27/4 | 896 cows |
|      | 25/5 | 875 cows |
|      | 22/6 | 874 cows |

received malt or malt-money only when they were ashore, since at sea they were supplied with ale instead. There is only a small decline in the amount of malt or malt-money distributed in the periods when ships were being sent out. Source: 1730–37: RA Søetaten, 2. divisions mønsterskriver, mønsterskriverens konsumptionsbog (containing tax-exemption notes issued for the free-milling of malt). 1739–1800: RA Søetaten, bogholderkontoret, søetatens hovedbøger (showing amounts of malt-money in the monthly victualling accounts).

20. RA GenToldkamm: rev. regnsk.; København; antegnelser, ekstrakter m. v. 1750.  
 21. Henrich Callisen: *Physisk-medizinske Betragtninger over Kiøbenhavn*, I, 1807, p. 231. This makes reference to edict A § 2 of 8/5 1788.

|      |      |                         |
|------|------|-------------------------|
| 1779 | 1/9  | 795 cows                |
|      | 1/10 | 796 cows                |
|      | 1/11 | 797 cows <sup>22)</sup> |

In 1803, Begtrup wrote that the numbers of cows in Copenhagen had been:

|      |            |
|------|------------|
| 1798 | 1,738 cows |
| 1799 | 1,795 cows |
| 1801 | 1,710 cows |

Some of the cows were owned by brewers, bakers or millers, but many of them belonged to distillers. A cow fed on distillery waste could yield 12–24 *potter* of milk a day. The cows were not raised in the city but were brought in shortly before calving <sup>23)</sup>.

The declaration of a cow to the cleansing department brought upon its owner a liability to cart away a wagon-load of cow-dung every third week <sup>24)</sup>, control being exercised by a “cleansing note” drawn from the cleansing department and given up at the Gate through which the dung was driven away <sup>25)</sup>. It is to be assumed that some owners will have omitted to declare their cows, since the fine involved was only 2 *mark* <sup>26)</sup>. The fine was forfeited to the informer <sup>27)</sup>. Thus, for example, taking a figure of 1,000 cows in Copenhagen in the 1760s and 1770s and applying the average of Begtrup’s figures for the milk yield of a distillery cow, the annual milk production in the city comes out at about  $6.57 \times 10^6$  *potter* or 48,300 barrels (*tønder*). This must be viewed in context with imports of milk into the city in the 1760s and 1770s amounting to between 13,000 and 25,000 barrels <sup>28)</sup>. Taking a figure of about 2,000 cows in Copenhagen at the close of the century, and applying Begtrup’s figure of milk yield, annual production would be about 96,600 barrels, while annual imports of milk in the 1790s were between 38,000 and 47,000 barrels <sup>29)</sup>. The nutritive value of

22. Københavns Stadsarkiv: Renovationskontoret, an unsorted, unregistered bundle.

23. Gr. Begtrup: Beskrivelse af Agerdyrkingens Tilstand i Sjælland og Møen, II, 1803, p. 400.

24. Henrich Callisen: Physisk-medizinske Betragtninger over Kiøbenhavn, I, 1807, p. 232. Reference to edict of 14/2 1765.

25. Op. cit., p. 231. Reference to edict of 19/3 1788.

26. Op. cit., p. 231. Reference to edict A § 4 of 8/5 1788.

27. Op. cit., p. 226. Reference to edict of 7/5 1777, § 33.

28. Cf. Appendix 2.36. Imports of milk by sea in the 1770s were probably insignificant, cf. the figures for the 1760s. The figure of 13,000 *td* is for the cattle-plague year of 1763.

29. Cf. Appendix 2.36. It is assumed that imports of milk by sea were negligible.

milk in the 18th century is a topic on which it is very difficult to pronounce. Henrich Callisen, a physician, declared in 1807 that milk both from the city and from the country was diluted with water when it was sold <sup>30</sup>). If the calorie content of milk in the 18th century is assumed to have been equal to that of modern Danish standard milk, then imports of milk in the 1760s and 1770s according to the consumption tax ledgers constituted between 1.8 % and 2.8 % of the quantity of calories consumed according to the consumption tax ledgers, while in the 1790s it constituted between 4.2 % and 4.3 %. Since the city's milk production as estimated above was about twice as large as imports both in the 1760s, 1770s and 1790s, it follows that to the aggregate amount of calories according to the consumption tax ledgers must be added 4–6 % in the 1760s and 1770s and about 8–9 % in the 1790s to represent milk produced within the city. Since the number of cows probably grew more or less in proportion to distilling, it is unlikely that there were any more cows in the city before the 1760s <sup>31</sup>). Since cows were not raised in the city but were imported shortly before calving <sup>32</sup>), the cows themselves are thus recorded in the consumption tax ledgers.

Regarding other domestic animals, Callisen cites three edicts to the effect that: Pigs were not to run loose in yards or be kept in sties in Copenhagen <sup>33</sup>); pigs were not to run loose in the streets, even in the Copenhagen suburbs <sup>34</sup>); and butchers could only keep pigs in their yards for one night <sup>35</sup>). It is doubtful whether it can be concluded from this that pigs were not kept in the city. Sheep and goats were kept in any case <sup>36</sup>), and poultry were also permitted <sup>37</sup>). Fishing from the city must also be counted in its internal production, since fresh fish imported from the sea was exempt from consumption tax. This did not apply to fresh herring, however <sup>38</sup>). These quantities of foodstuffs thus do not figure in the consumption tax ledgers, and it has been impossible to formulate any quantitative expression for them. On the other hand

30. Henrich Callisen: *Physisk–medizinske Betragtninger over Kiøbenhavn*, I, 1807, p. 405.

31. Cf. appendices 2.14.

32. Cf. p. 46.

33. *Op. cit.*, p. 234. Reference to edict of 26/11 1709.

34. *Op. cit.*, p. 234. Reference to edict of 18/11 1778.

35. *Op. cit.*, p. 234. Reference to edict of 3/8 1787.

36. *Op. cit.*, p. 229. Reference to edict of 22/8 1791.

37. *Op. cit.*, p. 229. Reference to edicts of 23/6 1766 and 7/5 1777.

38. Ordinances of 31/12 1700, 29/2 1732, 17/5 1762, 26/11 1768, 15/10 1778: from 1/2 1797 fresh herring was also free of consumption tax.

Copenhagen's internal production of foodstuffs was certainly the lowest of any Danish city in relation to its imports, since the area within the walls was already quite densely built up in the 18th century.

Over and above the quantities of goods recorded in the consumption tax ledgers, of course, smuggling took place whenever it was possible and profitable. In the "general confiscation ledgers" relating to customs tolls and consumption taxes on "contraband articles" exceeding four rix-dollars in value, textiles, spirits and tobacco predominate<sup>39</sup>); but doubtless foodstuffs were smuggled as well. The many wagon-loads of hay and wood-fuel probably also contained one or two hams or a side of pork now and then. Much of the imports registred, however, were in the form of animals on the hoof, and to smuggle a whole cow at least must have required the connivance of the consumption tax officials. However, it is very difficult to form any real idea of the scope of smuggling. Probably the best conclusion to be drawn about consumption from import figures in the consumption tax ledgers is that when re-exports, tax-free imports and production inside the city have been allowed for, the figures show the minimum quantities consumed.

Scrutiny of the consumption tax ledgers discloses no clear cases of fraud on the part of the consumption tax officials, but it does reveal irregularities in the construction of the abstracts. At the West Gate in 1763-66 and the Christianshavn Gate in 1795-97, the year-to-year fluctuations of the import figures for a range of commodities are remarkably small. To construct the abstracts, all the commodities had to be reckoned up from several hundred pages in the consumption books. It was a formidable task, and in the years above-mentioned it appears to have been dodged by the simple device of taking a copy of the commodity abstract for the previous year altering the figures a little. This is not the case with the import figures for cows and oxen. This seems to be because in the case of cows and oxen a daily record of the number imported had to be entered in a list in the back of the consumption tax book, which made it easy to tot up these lists at the close of the year and enter the total in the abstract. In drawing up the probably falsified abstracts the tax officials also varied some of the import figures somewhat in relation to the preceding year in order to get the total sum of money represented by the consumption tax amounts in the commodity

39. RA GenToldkamm: rev. regnsk.; København; Antegnelser, ekstrakter m. v., Almindelige konfiskationsregnskaber e. g. 1760.

abstract to agree with the total sums handed over to the Exchequer during the course of the year.

The problem now is whether these probably faked commodity abstracts were concocted only in order to evade the tedious job of drawing up correct ones or whether they represented an attempt to cover up fraud. The revenue at the two gates in the above-mentioned and surrounding years show the following fluctuations:

| West Gate <sup>40)</sup> |  | Christianshavn Gate <sup>41)</sup> |           |
|--------------------------|--|------------------------------------|-----------|
|                          | Rd. : sk.                              |                                    | Rd. : sk. |
| 1758                     | 42225 : 42 <sup>1</sup> / <sub>2</sub> | 1789                               | 5589 : 58 |
| 1759                     | 42280 : 25                             | 1790                               | 5415 : 74 |
| 1760                     | 41131 : 32                             | 1791                               | 5334 : 49 |
| 1761                     | 46031 : 07                             | 1792                               | 5278 : 33 |
| 1762                     | 46716 : 12 <sup>1</sup> / <sub>2</sub> | 1793                               | 5602 : 08 |
| 1763                     | 35695 : 38 <sup>1</sup> / <sub>2</sub> | 1794                               | 5188 : 53 |
| 1764                     | 33222 : 32 <sup>1</sup> / <sub>2</sub> | 1795                               | 5894 : 81 |
| 1765                     | 36915 : 78                             | 1796                               | 5528 : 18 |
| 1766                     | 37505 : 39                             | 1797                               | 6068 : 81 |
| 1767                     | 38731 : 92                             | 1798                               | 6110 : 67 |
| 1768                     | 34691 : 39                             | 1799                               | 5575 : 68 |
| 1769                     | 32839 : 50 <sup>1</sup> / <sub>2</sub> | 1800                               | 5026 : 54 |
| 1770                     | 34107 : 02 <sup>1</sup> / <sub>2</sub> | 1801                               | 4552 : 81 |
| 1771                     | 29216 : 36                             | 1802                               | 5089 : 65 |

At the Christianshavn Gate, the revenue for 1795–97 is no lower than for the surrounding years; there is therefore no reason to believe that the apparently falsified commodity abstracts conceal any fraud. At the West Gate, the revenue for 1763–66 was lower than in the preceding years and also lower than in 1767, but on average higher than in 1768–70. Revenue was low in 1771 as well, but in this case crop failure and the outbreak of cattle plague must be taken into account. However, the fall from 1762 to 1763 can be coupled with the outbreak of cattle plague in 1762; for example, Appendix 2.36 shows that not only were milk imports via the West Gate down in 1763 compared with 1761 and 1762, but that this was also the case with milk imports through the Christianshavn and North Gates, where there is no ground for believing that the abstracts for these years are falsified.

In the light of these considerations it is impossible to say for certain whether the probably falsified commodity abstracts for the West Gate

40. RA GenToldkamm: rev. regnsk.; København; Antegnelser, ekstrakter m. v. 1779.

41. Do. 1802 B.



do conceal fraud, since the variations in revenue can be well explained without considering fraud as a factor. Since, as already stated, the important figures for imported cows and oxen are quite likely correct, it has been felt most convenient to use the figures from the abstracts for these years as well, since there would be no advantage in replacing them with an interpolation.

In the years 1783–91, there are errors in the annual statements of the milling consumption tax office, since there are inconsistencies between the amounts of consumption tax handed over to the Exchequer by that office and the amounts indicated by the quantities of grain recorded as having been milled <sup>42</sup>). It is the milling totals that seem to be wrong, while the amounts of tax handed over appear to agree with the amounts levied, since in five out of six erroneous accounts discovered, larger sums are handed over to the Exchequer by the consumption tax office than the quantities of grain milled would indicate. The sums handed over to the Exchequer by the consumption tax office in these years, moreover, appear reasonable in relation to the sums handed over in the preceding and succeeding years, while in at least one instance the quantities stated to have been milled are manifestly absurd (cf. below).

In 1783, about 7,500 rix-dollars more was handed over than the quantities of milled grain recorded would indicate; the disparity can be attributed to the quantity of rye recorded for milling being too low <sup>43</sup>).

In 1784 about 64,000 rix-dollars less was handed over than the recorded quantities of milled grain recorded would indicate; the disparity probably arises from over-recording of wheat for distilling <sup>44</sup>).

In 1785 about 20,000 rix-dollars more was handed over than the recorded quantities of milled grain would indicate; the disparity seems to be ascribable at least in part to under-recording of the quantity of rye milled <sup>45</sup>). A volume of milled rye as small as 21,296 barrels would have signalled a catastrophe for the lower orders of the Copenhagen population, and there was no such situation in 1785 <sup>46</sup>).

The ledgers of the milling consumption tax office for 1786, 1788 and 1789 are only partially preserved, and it is impossible to determine

42. This can be seen from a comparison of the ledgers with the rates of consumption tax according to the ordinance of 15/10 1778.

43. Cf. Appendix 2.1111.

44. Cf. Appendix 2.142.

45. Cf. Appendix 2.1111.

46. Cf. Appendix 2.1111 and Hans Chr. Johansen: *Dansk økonomisk politik i årene efter 1784*, vol. 1., 1968, p. 312 ff.

whether the sums handed over and the recorded quantities of milled grain agree.

In 1787, the sum handed over is only 1,800 rix-dollars larger than that indicated by the recorded quantities of grain, and in 1790 it is only 1,100 rix-dollars larger.

In 1791 about 76,000 rix-dollars more are handed over than are indicated by the recorded quantities of grain; the disparity is probably attributable to the figure of wheat for distilling being too low <sup>47</sup>).

In estimating the calorific and protein values of consumption in Copenhagen according to the consumption tax ledgers (cf. Chapter 6), the quantities milled as shown by the figures in the milling consumption tax office ledgers are also employed for the years 1783–91, though excluding 1785. In respect of 1783, 1787 and 1790 it may be argued in justification that the size of the discrepancy between the two amounts indicates the error to be of no significance. In the years 1784 and 1791, the discrepancy between paid-in and computed consumption tax is wide, but this is thought to be due to errors in the number of barrels of wheat for distilling, and the consumption of spirits is not included in the estimated calorific and protein values. The figure of rye for milling in 1785 is of great importance since rye constituted a large part of total consumption, and manifestly absurd. In calculating calorific and protein values it has been replaced by the mean figure between the previous and following years.

In the years before and after 1783–91, either the ledgers are in agreement or else the disagreements are negligible.

The best index of the overall reliability of the commodity abstracts is that substantial changes in the import figures from one year to the next normally occur at all four Gates alike <sup>48</sup>).

47. Cf. Appendix 2.142.

48. See for example the vicissitudes of the herring in appendix 2.74.

## 6. Levels of food consumption in Copenhagen 1730–1800 estimated from the consumption tax ledgers

In the consumption tax ledgers, consumption is recorded in a variety of different units: head of oxen, barrels of beef, barrels of rye, pigs, chickens etc. For an overall evaluation, these units require to be converted to modern measures. Appendix 2.96 shows the conversion factors for all the important commodities featuring in the commodity abstracts, found here in the appendices with initial digits 2.1–2.8. There is a considerable margin of error in some of these conversion factors, but others are less dubious.

In converting from units of weight to calorific values and protein content, modern tables are used. Allowance is made in this for the fact that for some commodities purchased weight is not the same as usable weight <sup>1)</sup>. It is to be presumed in the case of beef and pork that in the 18th century these were of very fat quality, i. e. rather high in calorific value but low in protein. This would be regarded today as a poor grade of meat, but whether it would have been so regarded in the 18th century is a moot point <sup>2)</sup>.

For each year a calculation is made of the calorific value and protein content of the consumption registered in the consumption tax ledgers plus the registered tax-free consumption. There is one exception, however. No attempt has been made to calculate calorific values of spirit consumption from the number of barrels of grain milled for distilling. So as to form some idea of the significance of this factor for the computed calorific value, a rough calculation has been made for the 1790s, when the production of spirits per head of population was at its highest level in the period here being studied (cf. appendices 2.14, especially 2.141 and 2.142). According to M. L. Nathanson, a barrel of grain yielded about 60 *potter* of *brændevin* around the year 1800 <sup>3)</sup>, which would

1. Richard Ege: Fødevarer- og ernæringstabeller, 1963.

2. Cf. p. 11.

3. M. L. Nathanson: Danmarks National- og Stats Huusholdning, 1836, p. 584.

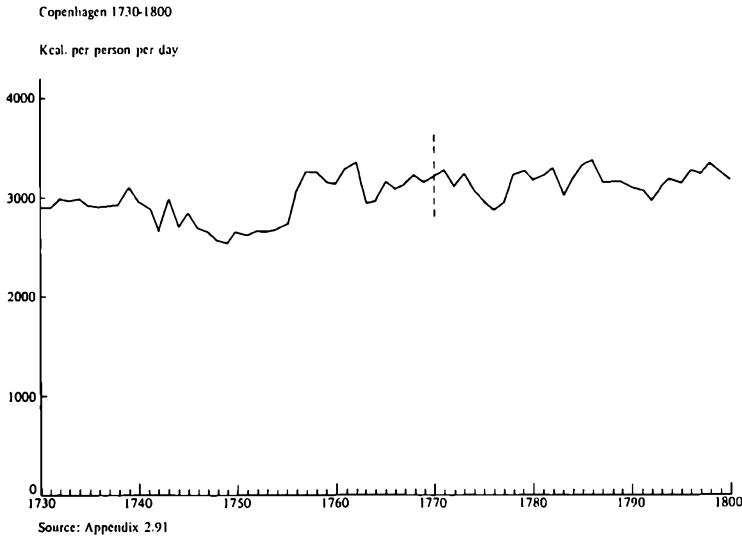
mean that the amount of grain milled for distilling in the 1790s produced about 5,000,000 *potter* of spirits (cf. appendices 2.14). Even assuming this entire quantity to have been consumed within the city, the average annual consumption still works out at only 50 *potter* per head or about 205 kcal. per person per day <sup>4</sup>). However, this figure is no more than the theoretical maximum calorie-increment per head of population ascribable to spirits, for some of the *brændevin* produced in Copenhagen was exported <sup>5</sup>).

As regards ale consumption, no account is taken in the calorie computation of the fact that a certain amount of ale was not consumed direct but was put in the mash as an "additive" during distilling. In 1802 the quantity was put at about 90,000 barrels <sup>6</sup>), while in 1820 C. A. Brøndum declared that there was one barrel of additive to every two barrels of wheat <sup>7</sup>); based on the amounts of wheat milled for distilling in the 1790s, this gives a figure of about 140,000 barrels of ale <sup>8</sup>). Assuming a brewing ratio for the ale brewed in the 1790s of 14 barrels of ale from every 4 barrels of malt, as indicated by the brewers ordinances <sup>9</sup>), about 210,000 barrels of ale per annum were brewed in the 1790s. If in 1790 about half the ale was actually used for distilling, then this means about 140 kcal. per person per day less than if all of it was drunk as ale. From these rough figures it appears that the understatement from excluding the calories yielded by spirits and the overstatement from assuming that all the ale was drunk as ale were about the same, viz., between 100 and 200 kcal. per day in the 1790s; and since the technology of distilling remained substantially unchanged in the period 1730–1800 <sup>10</sup>), the two figures must have moved more or less in unison up to the 1790s.

After the calorie and protein yields have been worked out from each year's consumption as registered in the consumption tax ledgers, the

4. The spirit content is here assumed to have been half that of modern aquavit, cf. Lars Rumar: *Jordbrug og brændevinsbrænding I*, Erhvervshistorisk Arbog 1966, p. 20 f., and *Gær- og Spiritusindustriens Historie i Danmark*, 1931, p. 397.
5. M. L. Nathanson: *Danmarks National- og Stats Huusholdning*, 1836, p. 584.
6. H. Muus and Rasmus Nyerup: *Om Øl og Ølbrygning samt om Bryggerlauget i Kjøbenhavn*, 1802, p. 18.
7. Chr. A. Brøndum: *Kort Underviisning i Kunsten at brænde Brændeviin*, 1820, p. 39.
8. Cf. Appendix 2.142.
9. Kristof Glamann: *Bryggeriets Historie i Danmark*, 1962, Appendix B.
10. Lars Rumar: *Jordbrug og brændevinsbrænding I*, Erhvervshistorisk Arbog 1966, p. 12 ff.

Fig. 3



figures are converted to calories per person per day by means of the population figures arrived at in Chapter 2. Fig. 3 shows the result. The vertical dotted line is to indicate a distinction between the two periods 1730-69 and 1770-1800 consisting in different respective margins of error, there being, as already stated, no systematic series of import figures for seaward imports 1770-1800.

The margin of error in the estimated daily calorie intake per head can be discovered as follows: If the margin of error is assumed to be 10 % when converting quantities of grain from measure of capacity to weight measure and 25 % when converting from head of livestock to weight of meat, and if interpolated and estimated figures are assumed to have a 40 % margin of error, then, taking into account the ratio between the consumption of the various foodstuffs, the margin of error of the calorie figures is between 10.7 % and 12.7 % in 1730-69 (except for 1730, 1732-34, 1737, 1739, 1743 and 1762, when interpolations are made on a large scale) and between 17.7 % and 21.6 % in 1770-1800 (except for 1777, 1779, 1783, 1785, 1792, 1794-95 and 1797, when there are again large-scale interpolations). In addition there is the margin of error in the estimated population figures, which we

have put at 10 %. Thus the margin of error in the height of the calorie curve in fig. 3 becomes (cf. appendix 2.95):

between 20.7 % and 22.7 % in 1730–69

between 27.7 % and 31.6 % in 1770–1800

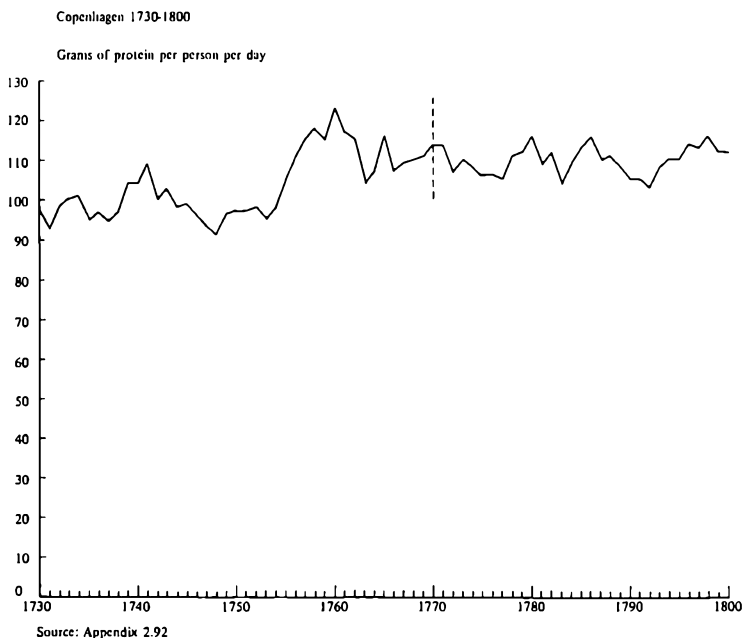
This, however, is the margin of error *in the curve height*, but since a substantial part of the margin of error originates from the conversion factors, it follows that in judging whether a change from one year to the next is significant the margin of error is considerably smaller, since there is no reason to believe that the conversion factors changed from year to year. The margin of error in the estimated population figures, too, are only of minor importance when it is changes from year to year in the daily calorie intake per head that are being examined. On the other hand the margin of error from figures derived by estimation and linear interpolation, in instances where figure-data from a consumption tax-point are missing, will operate with full force. If the years above-mentioned for which large-scale interpolations have been made are excluded, the margin of error from interpolation for the period 1730–1769 is only about 1.5 %, arrived at by ascribing a margin of error of 40 % to the interpolated figures and 0 % to the non-interpolated ones. By a similar process a margin of error between about 8.0 % and 10.5 % is arrived at for the period 1770–1800, excluding the years above-mentioned for which large-scale interpolations have been made. This is called the margin of error *in the curve shape* (cf. appendix 2.95).

With the above-computed margin of error in its height, and ignoring the years mentioned above for which large-scale interpolations have been made, the curve shows an available calorie intake per person per day of:

|           |                   |               |
|-----------|-------------------|---------------|
| 1730–42   | about 2,900–3,100 | ± 650 kcal.   |
| 1746–54   | about 2,600–2,700 | ± 600 kcal.   |
| 1757–69   | about 3,100–3,300 | ± 725 kcal.   |
| 1770–1800 | about 2,900–3,300 | ± 1,025 kcal. |

It is evident from the margin of error indicated that between the beginning and end of the period considerable changes of level may have taken place. Over shorter periods of time, as pointed out above, a much small-

**Fig. 4**



ler margin of error can be assumed. Thus it is very probable that in the period 1746–54 the amount of calories available per person was smaller than in the preceding and succeeding periods. This is presumably because of the reduction of herds resulting from the cattle plague at the end of 1745 and in the years following<sup>11</sup>). The recrudescence of the plague in 1763 is also clearly reflected in fig. 3<sup>12</sup>).

The levels of grams of protein per person per day match those of calorie intake quite well (cf. fig. 4).

The indicated calorie and protein values per person per day are averages for the whole population, adults and children, male and female, rich and poor. They must be viewed in context with the needs of a society characterised by the age- and sex-structure of Copenhagen in the 18th century. A computation of the average daily calorie requirement per head according to the criteria established by the FAO for a climate

11. H. P. Kristensen: Kvægpestens paa Sjælland i det 18. Aarhundrede. *Fra Arkiv og Museum*, 4, 1909–11, p. 257 ff. Cf. also Appendix 2.36.

12. H. P. Kristensen: *Loc. cit.*, p. 286. Cf. also Appendix 2.36.

similar to Denmark's and based on the sex- and age-structure of Copenhagen at the two censuses of 1787 and 1801 produces the following figures <sup>13</sup>):

1787 2,363 kcal. per person per day  
1801 2,355 kcal. per person per day

In view of the margin of error in the average daily intake per head computed from the figures of consumption registered, the possibility cannot be excluded that the average daily calorie intake some years *may* have been less than 2,350 kcal. But unregistered consumption must be added to the registered: foodstuffs produced inside the city, the fresh fish supply, smuggled articles, clandestine milling and grinding, e. g. of oats, which is relatively easy to grind under primitive conditions. The investigations of the previous chapter suggest a figure for such non-registered consumption amounting to at least 10 % of that for registered consumption, implying that the amount of calories available per person per day is unlikely to have been less than 2,350 kcal. Only in the period 1746–54 is it really possible to believe the average intake to have been less than 2,350 kcal. and even here it is more likely to have been bigger.

In regard to daily protein intake, Richard Ege follows the United States Nutrition Board's 1958 figures of 100 grams for a boy aged 13–15 years, 70 grams for an adult male, 80 grams for girls aged 13–15 years and 58 grams for adult females <sup>14</sup>). Thus, protein intake would have sufficed to cover the requirement (cf. fig. 4).

The trouble with these figures of average daily intake per head is that we do not know how the intake was divided between the social classes. The not very numerous upper class proper <sup>15</sup>), however, would have had to account for a vast number of calories for the rest of the population to have been living on the verge of starvation.

As well as shedding light on the state of nutrition, the commodity abstracts in the consumption tax ledgers can also be employed to show how consumption swung from one category of foodstuffs to another under the impact of changes in supply and prices. Fig. 5 shows the intake of calories in 1730–69 distributed by categories. Those years for which

13. Basis of calculation: FAO Nutritional Studies No. 5, Calorie Requirements, Washington 1950, p. 39, and Appendices 1.04 and 1.05.

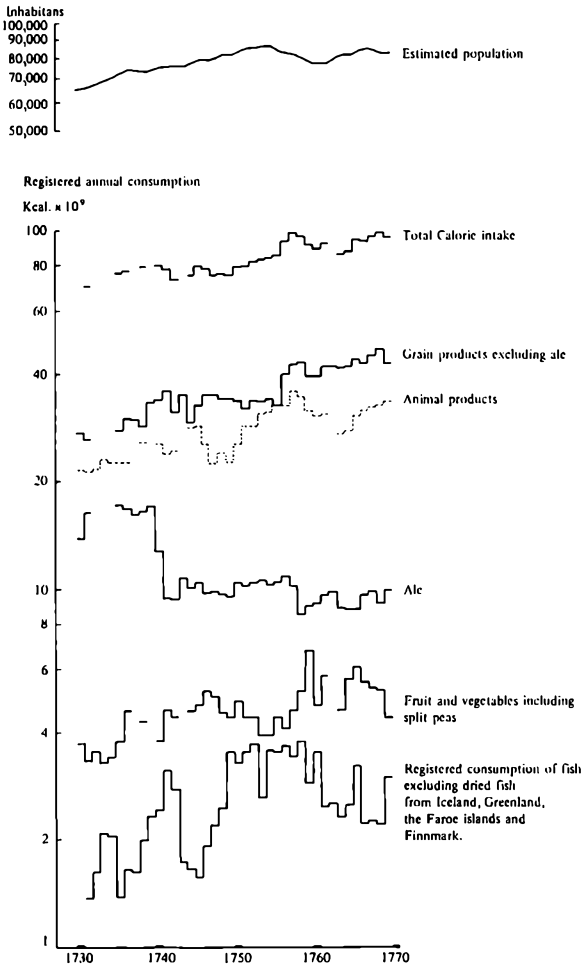
14. Richard Ege: Fødevarer- og ernæringsstabeller, 1963, Skema A.

15. Cf. chapter 2, p. 21 ff.



**Fig. 5**

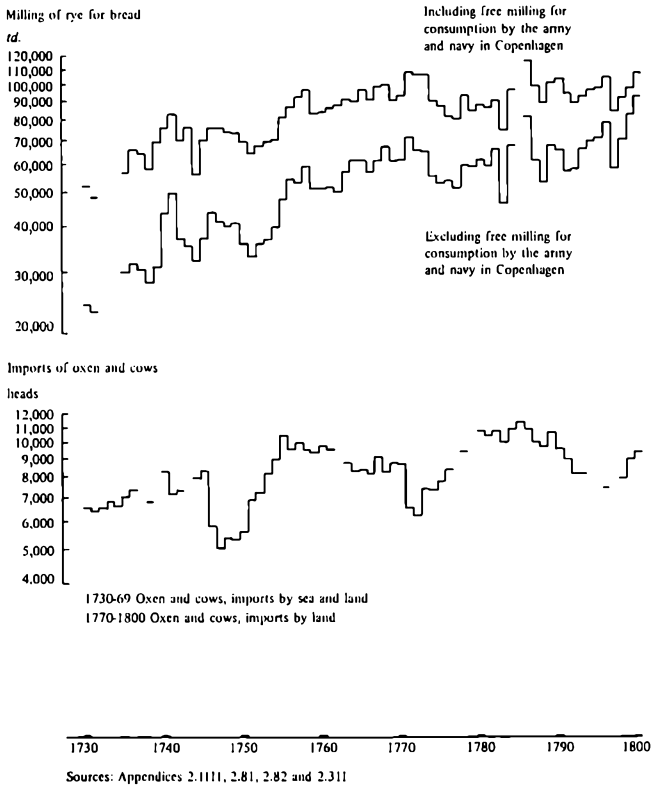
Registered consumption in Copenhagen 1730-69



Sources: Appendices 1.02, 2.71-2.74 and 2.91

there are significant interpolations are excluded from this diagram. The most important sources of calories were grain products, including ale, and animal products, while fruit and vegetables were of no particular importance, even if split peas are counted in the latter category. The fish category in the diagram does not include dried fish imported from

Fig. 6



Iceland, Greenland, the Faroes and Finnmark. The only fresh fish included is herring, and only the proportion of fresh fish imports brought in overland, since the imports recorded in the abstracts as arriving by sea are stated in boatloads and therefore cannot be converted to calorific values. All other fresh fish was exempt from consumption tax.

It is evident from the diagram that grain products, including ale, were a very important source of calories, even though ale consumption was declining. The fall in the amount of calories contributed by ale in 1740–41, however, is partly attributable to the abolition of the seamen's malt ration at the end of 1739<sup>16</sup>); but the fall was about twice as big as the calorific value that the seamen's malt ration would have produced when

16. Kristof Glamann: *Bryggeriets Historie i Danmark*, 1962, p. 156 ff.

brewed into ale. The amount of calories from animal products was also large. It is worth noticing the variations in the curve for grain products as compared with that for animal products. It can be seen that when the cattle plague caused a fall in imports of animal products in and after 1746, consumption of grain products rose to offset it. The same thing occurred in the bad year of 1741<sup>17)</sup> and in 1762–64, when the cattle plague returned, Fig. 6 reflects the same phenomenon. It shows the milling of rye and the import of cows and oxen. In 1730–69 the import figures for cows and oxen refer to both landward and seaward imports, while in 1770–1800 the figures are for landward imports only. However, the seaward import of cows and oxen in the years prior to 1769 was not of major significance in relation to total imports<sup>18)</sup>, and it is known that in 1782 and 1783 seaward imports of oxen amounted to 88 and 150 head respectively<sup>19)</sup>, which is also negligible compared with imports overland<sup>20)</sup>. In 1805 the seaward import of oxen was about 50 head<sup>21)</sup>. Landward imports of cows and oxen in 1770–1800 therefore appear to be very nearly coterminous with total imports. Fig. 6 shows the high consumption of rye in the bad year of 1741 and during the cattle plague, and also the rise in consumption in the late 1750s. The bad years of 1771–73 are characterised by very high rye consumption, while the number of imported oxen is low in these years. Declining imports of cows and oxen towards the close of the century must be viewed in context with sharply rising imports of beef (cf. Appendix 2.34).

Thus, it is clear from the foregoing that in those years when animal foodstuffs were not available in the normal quantities, the people of Copenhagen transferred their food consumption to grain products, so that even in the years of harvest failure such as 1771–72 there could occur an expansion of vegetable food consumption if the supply of animal foodstuffs failed. Therefore it is evident that even when grain products were increasing in price<sup>22)</sup>, their consumption could well be simultaneously rising, for grain products still gave the cheapest calories.

The purpose of fig. 7 is to illustrate the possibilities of the material

17. On conditions in 1741 cf.: Kristof Glamann: *Op. cit.*, p. 163.

18. Cf. Appendix 2.311.

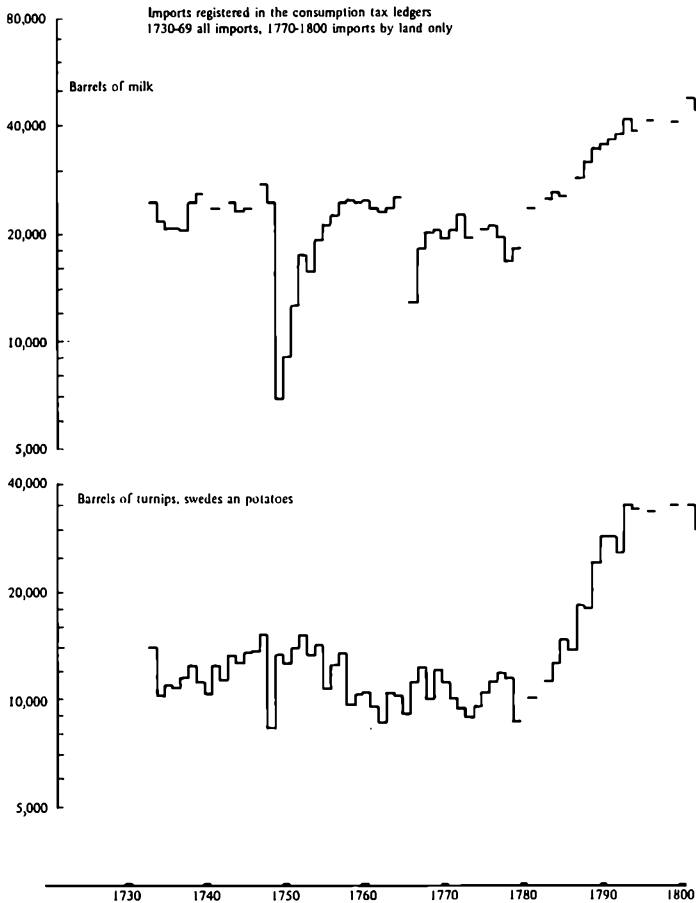
19. RA GenToldkamm: *rev. regnsk.*; København; Antegnelser, ekstrakter m. v. 1783.

20. Cf. Appendix 2.311.

21. RA GenToldkamm (VA II, p. 276), Fortegnelse over de ind- og udførte korn- og fedevarer fra København og Bornholms toldsteder 1805.

22. Cf. Friis and Glamann: *A History of Prices and Wages in Denmark 1660–1800*, vol. I, 1958, p. 157 and p. 217.

Fig. 7



Sources: Appendices 2.36 and 2.22

in the appendices with initial digits 2.1–2.7. The diagram shows the imports of milk and of turnips, swedes and potatoes. The three outbreaks of cattle plague and the growth of dairying in Zealand in the last two decades of the century can be seen reflected in the curve for milk imports. Imports of turnips and swedes swing up and down until about 1780, when the potato appears in quantities. After that imports are trebled in ten years. That this is in fact occasioned by the arrival of the potato can be seen from Appendix 2.22.

## 7. Index of food and fuel prices in Copenhagen 1730–1799

The researches into consumption in Copenhagen undertaken for the purposes of this study open the following possibilities for selecting a budget from which to compute an index of retail food prices:

1. The construction of a food budget based on the diet provided in one or more institutions.
2. The use of the Royal Danish Navy's victualling scale afloat as a budget.
3. The use of the consumption registered in the consumption tax ledgers as a budget.

Regarding method 1: Most of the institutions for which victualling scales or account-books survive were places where people did not reside of their own free will, or did so only for want of something better: poorhouses or hospitals. The inmates of institutions had to take what was given them, and it therefore cannot automatically be assumed that their diet was representative of that of very large groups outside those institutions, even though it was true that the institutional diet, like that of people in general, had to be selected from the products that were available at a reasonable price.

Regarding method 2: An advantage of using the Royal Danish Navy's victualling scale afloat as a food budget is that the persons fed on it had enlisted voluntarily. However, only a relatively small part of their service as enlisted seamen was spent at sea being fed according to the victualling scale afloat<sup>1</sup>), so it is difficult to determine whether the seamen really appreciated this diet or whether the victualling scale afloat was one of the drawbacks to be accepted when enlisting as a seaman.

Regarding method 3: Using the consumption recorded in the consumption tax ledgers as a price-index budget presents the disadvantage that it refers to the whole city, rich and poor, day-labourers and great

1. Cf. page 44.

merchants. In deciding nevertheless to use the consumption registered in the consumption tax ledgers as the price budget, regard is had to the fact that even though the consumption does relate to different social classes, by embracing the consumption of the whole city it still offers the advantage that its representativeness cannot be called into question. There is therefore no chance of having selected the pattern of consumption of a small social group, as one might risk doing by taking an institutional victualling scale as a budget. Even if there were articles that escaped the consumption tax ledgers, whether legally or illegally, the computed calorie-intake per person per day is nevertheless so credible that quantities of goods not registered in the consumption tax ledgers cannot have been of such an order of magnitude as to alter fundamentally the picture therefrom derived.

The prices used in the price index are the Magistrate's official rates for bread, ale, beef and pork, and the Copenhagen market prices as they appear in the price-currents<sup>2)</sup>. In cases where the market price quotations include more than one price, the average figure is used. It is of course possible that the two prices refer to different qualities, but very often the quotations consist by turns of two prices, e. g. 224–240 *sk.* per barrel, and then only one price, e. g. 240 *sk.* per barrel. Therefore there is probably no question of a systematic differentiation between a number of qualities.

Since the Magistrates' rates for bread, ale, beef and pork are used as prices in computing the price index, the question must be examined whether it is reasonable to assume that prices in the city really conformed to these rates. The cases of rye bread, pork and beef will be studied.

Figure 8 shows the price of 1 barrel of rye according to the price assessments employed when fixing the official price of bread, and also the price of 240 *pund* of coarse rye bread according to the official rate<sup>3)</sup>. The unit of 240 *pund* is chosen because when the system of official bread prices was modified in 1776 it was laid down that one barrel of rye, when milled and baked, should yield 240 *pund* of bread<sup>4)</sup>. The gap between the two curves thus indicates the gross profit made from baking 240 *pund* of coarse rye bread from 1 barrel of rye. From this gross profit should be deducted consumption tax, milling, baking, and the pro-

2. Friis and Glamann: A History of Prices and Wages in Denmark 1660–1800, vol. I, 1958, p. 143 ff and 207 ff.

3. Friis and Glamann: Op. cit. p. 152 f.

4. Friis and Glamann: Op. cit. p. 145.

Fig. 8

*Skilling*

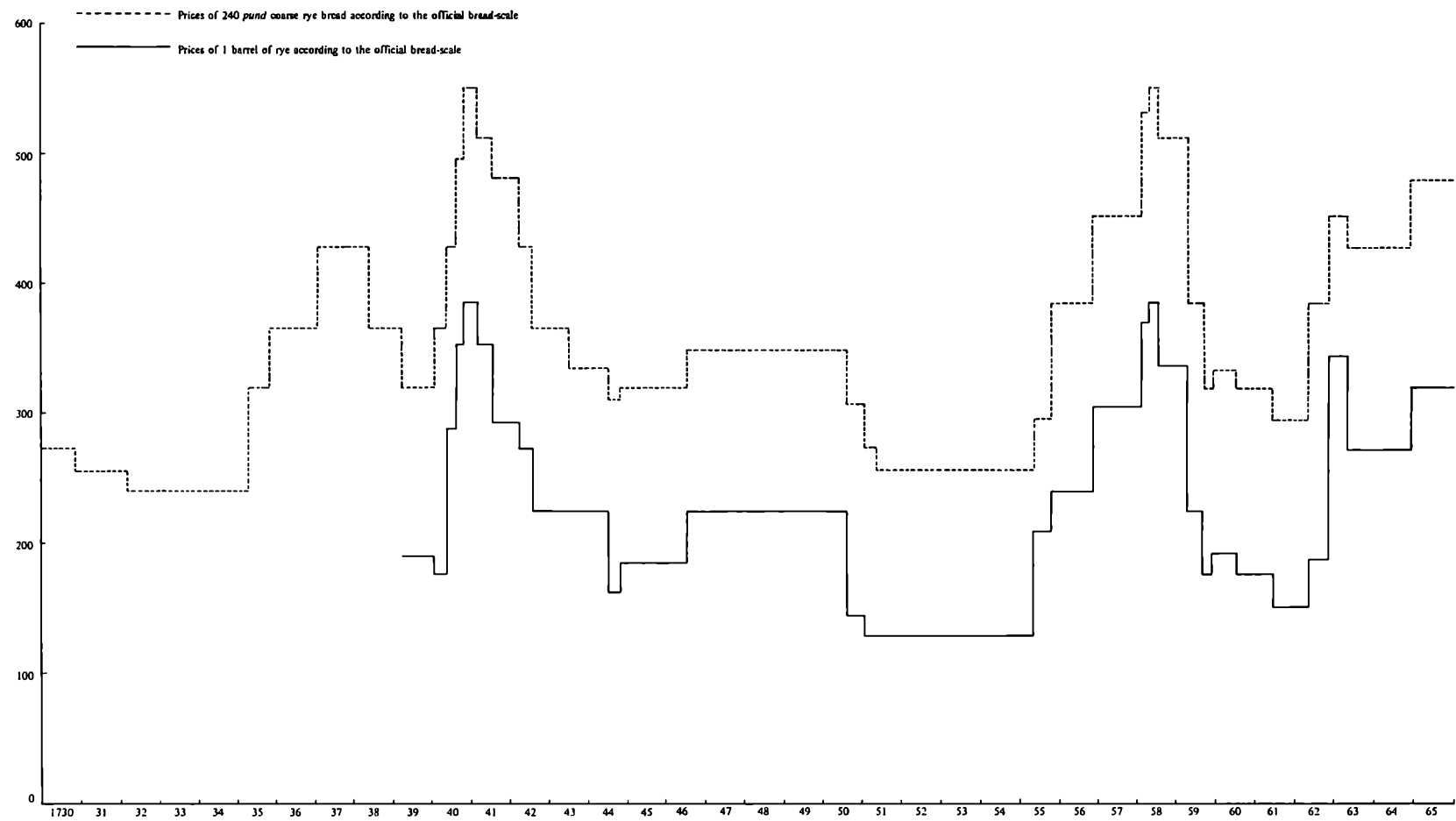


Fig. 8 (continued)

*Skilling*

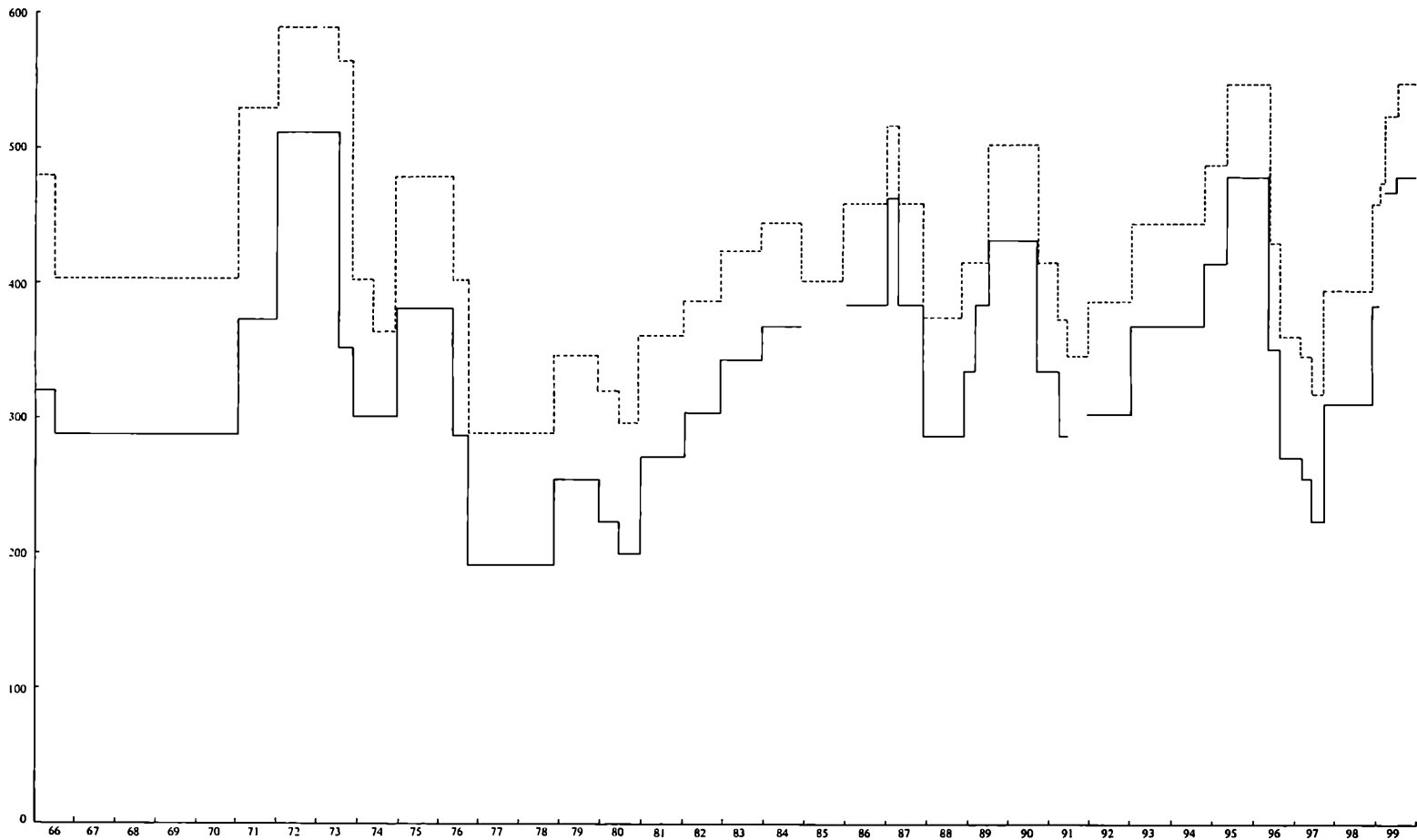
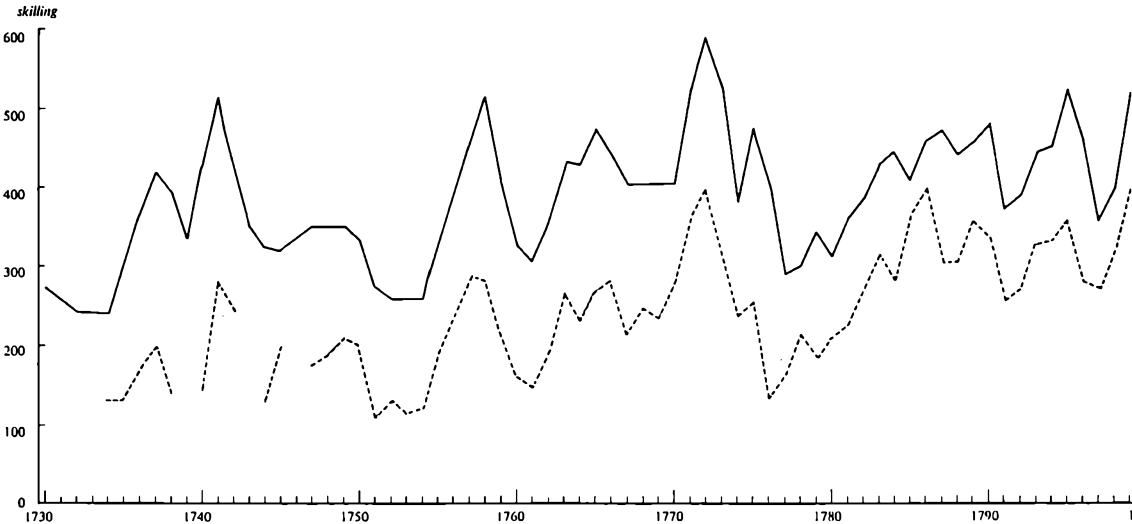




Fig. 9

Rye prices

— Annual average prices of 240 *mund* coarse rye bread according to the Copenhagen official scale  
- - - Five danish estates. Average selling prices for one barrel rye.



Sources: Friis and Glamann: A History of Prices and Wages in Denmark 1660-1800, vol. I, 1958, p. 143 ff, and P.

fit of the miller and baker. The diagram reveals that the gross profit thus computed declines. Consumption tax during the whole period was 32 *sk.* per barrel of rye made into bread<sup>5</sup>). This implies either that the amount appropriated for milling, baking and the profit per barrel of rye declined, or alternatively that the quality of rye was improved so that one barrel of rye yielded more bread. If no improvement of the quality of rye did take place, and the gross profit according to the official prices therefore declined as substantially as the figures show, it is improbable that the bakers really did conform to the official bread price in the last 15 years of the century.

Fig. 9 attempts to determine whether this conclusion should be attributed to grain prices being over-stated in relation to their general actual

5. Ordinances of 31/12 1700, 29/2 1732, 17/5 1762, 26/11 1768, 15/10 1778 and 1/2 1797.

level, when the official price of bread was being fixed in the last part of the century. The figure shows the annual average price of 240 *pund* coarse rye bread according to the official rate <sup>6)</sup> and the annual averages of the selling prices of five landed estates <sup>7)</sup>. The conclusion from studying this figure is the same as from fig. 8: either the quality of rye was improving, so that towards the close of the century a greater poundage of rye bread could be baked from one barrel of rye than was possible in the 1730s, or else the gross profit according to the official prices was squeezed so much that bakers are unlikely to have conformed to the official bread price. Bearing in mind the broad development of Danish agriculture in the late 18th century, an improvement in the quality of rye cannot be excluded.

Fig. 10 shows the Magistrates' scale of pork prices <sup>8)</sup> and the prices of bacon as indicated by the market-place prices quoted in Copenhagen <sup>9)</sup> and the Asiatic Company's buying prices for bacon <sup>10)</sup>. The diagram shows that while the Magistrates' scale was higher than the market-place price and the Asiatic Company's buying price at the beginning of the period, it gradually became normal, especially in periods of high price levels, for market-place prices and the Asiatic Company's buying price to exceed the official scale. This suggests that in periods of high prices the Magistrates' tried to use the official scales to hold down the price of pork, "the only meat of the peasant, the soldier, the mariner and the labouring class" <sup>11)</sup>, but that they did not entirely succeed in this.

In the case of beef, a comparison between the prices received by the merchant Niels Ryberg for salt beef delivered to the navy in 1765–1800 and the Magistrates' scales for fresh beef shows that Ryberg's prices per *pund* were normally lower than the official price, but that in years of high price levels, Ryberg's price were higher than the official price <sup>12)</sup>.

6. Friis and Glamann: A History of Prices and Wages in Denmark 1660–1800, vol. I, 1958, p. 155 ff.

7. P. Godsregnskaber: (Fiurendal, Sorø Akademi, Tåsinge, Støvringgård og Erholm-Søndergård).

8. Friis and Glamann: A History of Prices and Wages in Denmark 1660–1800, vol. I, 1958, p. 188 ff.

9. Friis and Glamann: Op. cit. p. 261 ff.

10. P. Asiatisk Kompagni.

11. A. Falkenskiöld: Afhandling om Svineavl i Danmark, 1804, p. 2.

12. Aa. Rasch: Niels Ryberg, 1964, p. 383. A comparison with Friis and Glamann: Op. cit. p. 189 ff. shows it is the Magistrates' scale for fresh beef with which Aa. Rasch compares Niels Ryberg's prices.

Fig. 10

Pork prices

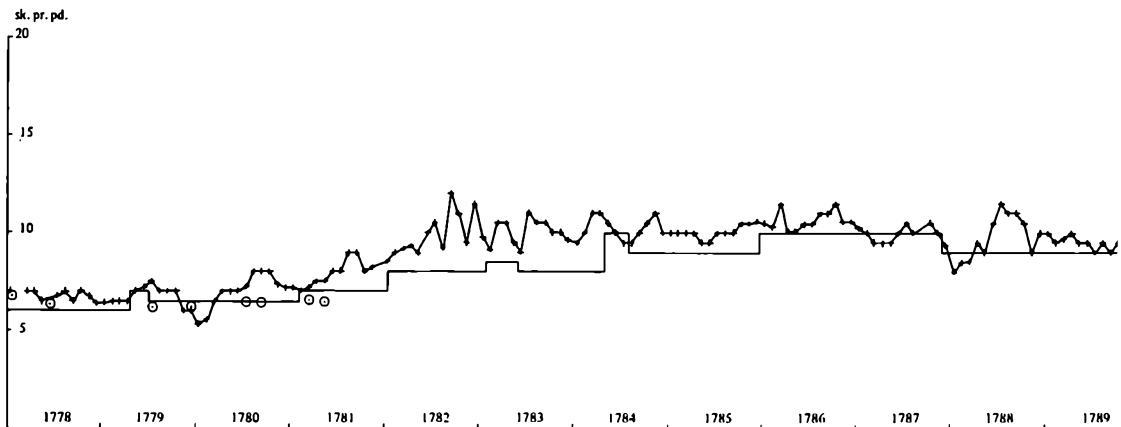
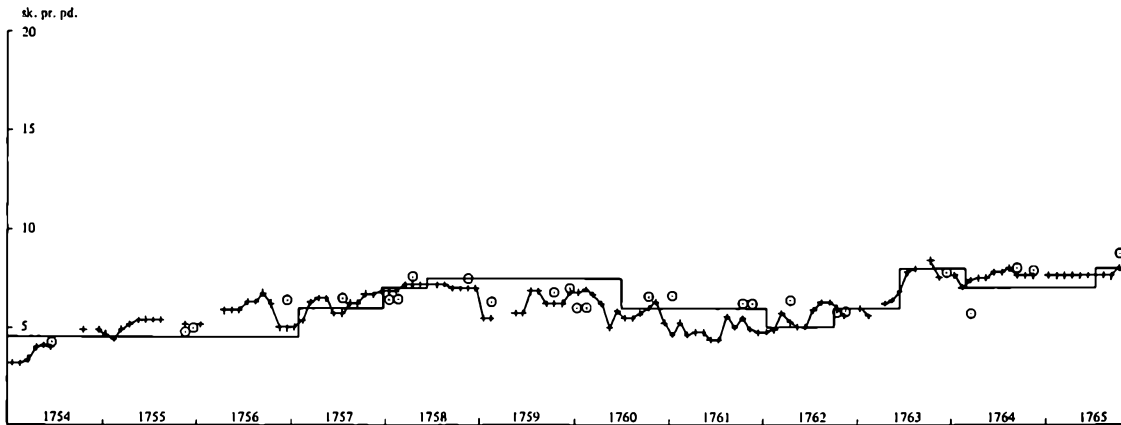
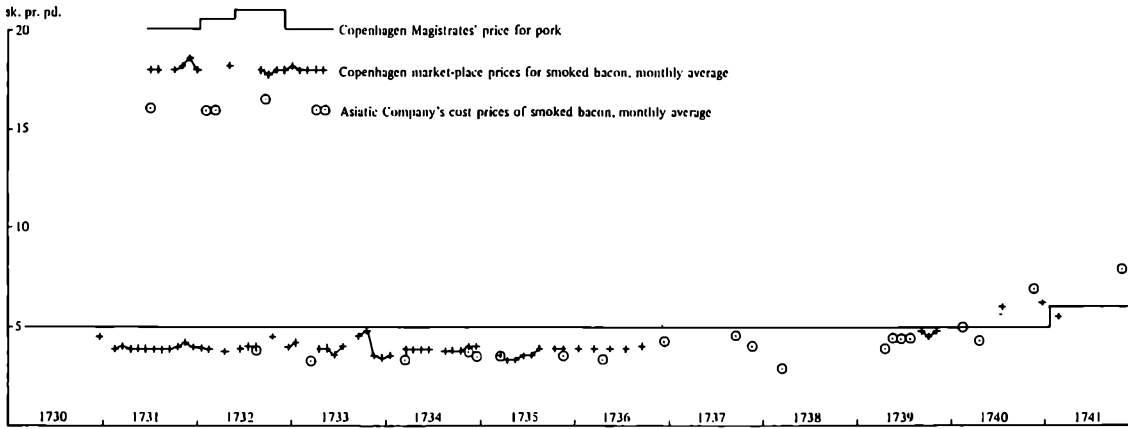
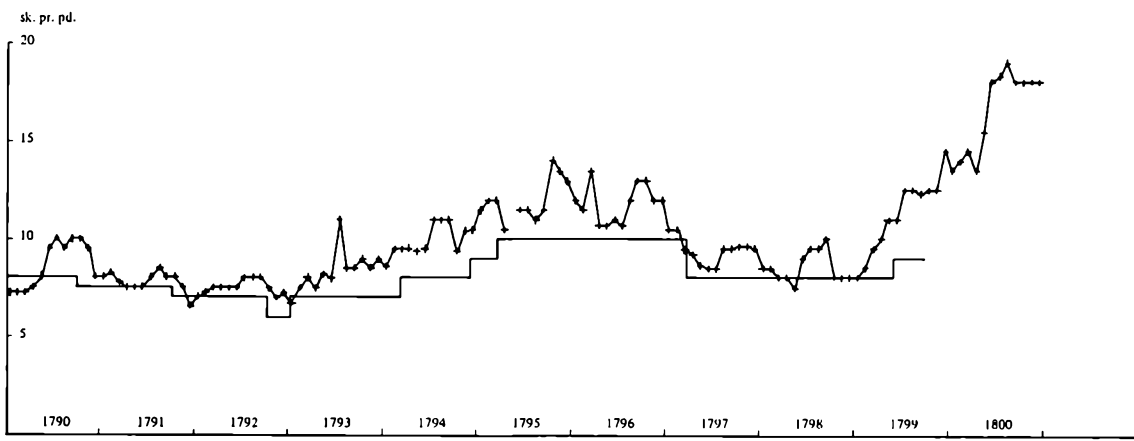
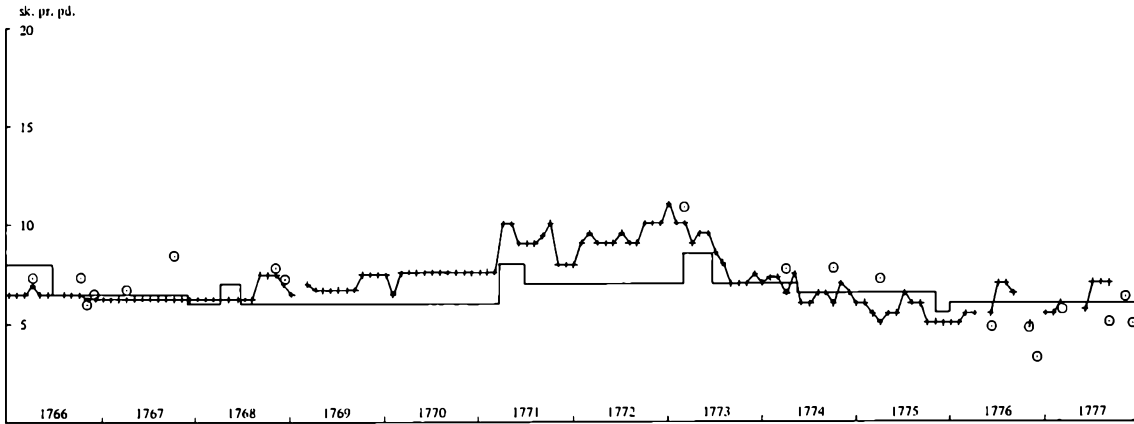
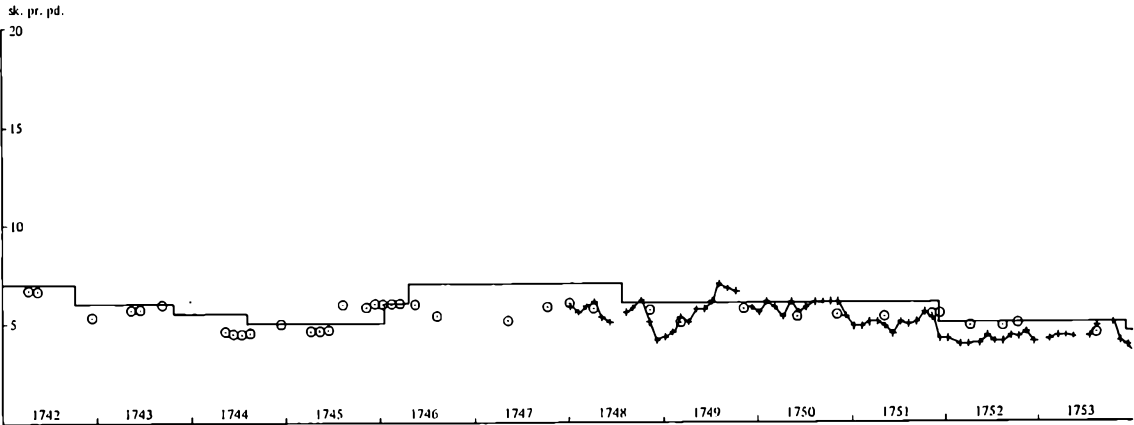


Fig. 10 (continued)



Source: Früs and Glammann: A History of Prices and Wages in Denmark, 1660-1800, vol. 1, 1958 p.172 ff, 261 ff and P.

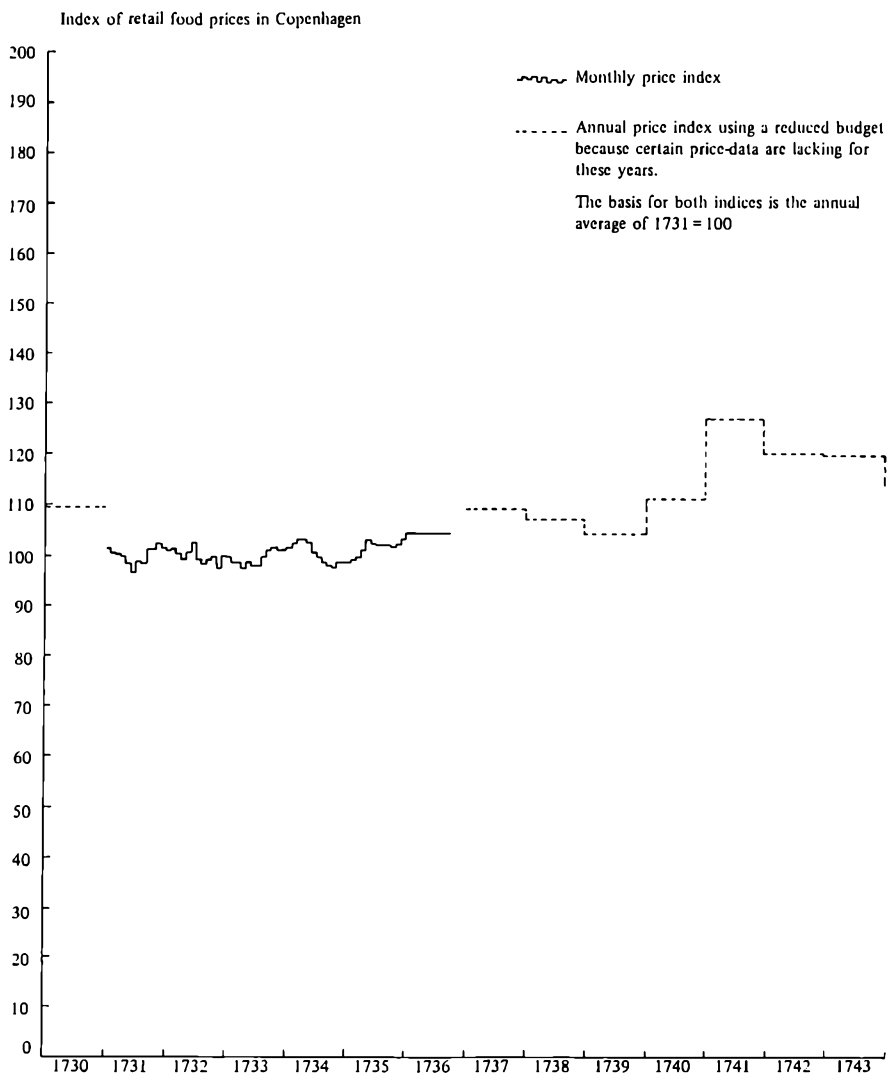
Thus, the broad impression gained is that, with the aid of the official scales, the Magistrates' did seek in some degree to damp down retail prices, especially in years of exceptionally high prices. The degree of success achieved by the Magistrates' price policy is impossible to ascertain conclusively from the data so far collected on 18th century Danish price movements, but it must be regarded as quite probable that the estimated index-figures based on the Magistrates' scales for bread, beef, pork and ale understate the fluctuations of prices, inasmuch as in periods of real dearth prices were rather higher than the index-figure indicates; on the other hand the pork prices in fig. 10 suggest that in periods of lower prices such as 1791-93 and 1797-98, the Magistrates' scales were quite close to the actual price level.

During the period under review the price of ale was fixed according to various systems, since sometimes the quality was allowed to vary while the price was kept constant and at other times the quality was kept constant while the price varied. In order to establish a price series that refers throughout the period to the same quality of ale, the average price of ale brewed from one barrel of malt has been calculated in respect of the various price fixings. From this calculation a price series is obtained, also varying through the period 1755-1800, in which the price of the poorest grade of ale is kept constant by a government subsidy <sup>13</sup>).

The *per capita* consumption according to the consumption tax ledgers of 1731 (cf. Appendix 3.1) has been used to calculate index prices. No success having been achieved in obtaining price data for turnips and swedes, for kale, or for red and white cabbage, these items have had to be excluded from the budget. Moreover, in 1730 and 1737-47 it has been necessary to exclude barley meal, split peas, butter, cheese, eggs and fish. Of these, only butter is of vital importance to the result. For the periods 1731-36 and 1748-1800 an index figure has been calculated for each month of the year, while in 1730 and 1737-47 (where a reduced budget is employed) a single annual value only has been calculated, cf. fig. 11. Both in the complete budget and in the reduced budget the base is the annual average of the commodity prices in 1731. In the conversion to an index the margin of error in the population estimate for 1731, which enters into the *per capita* consumption figure for 1731, is removed. Fig. 11 has been drawn to show how widely prices could fluctuate over a relatively few months. In 1771 the price

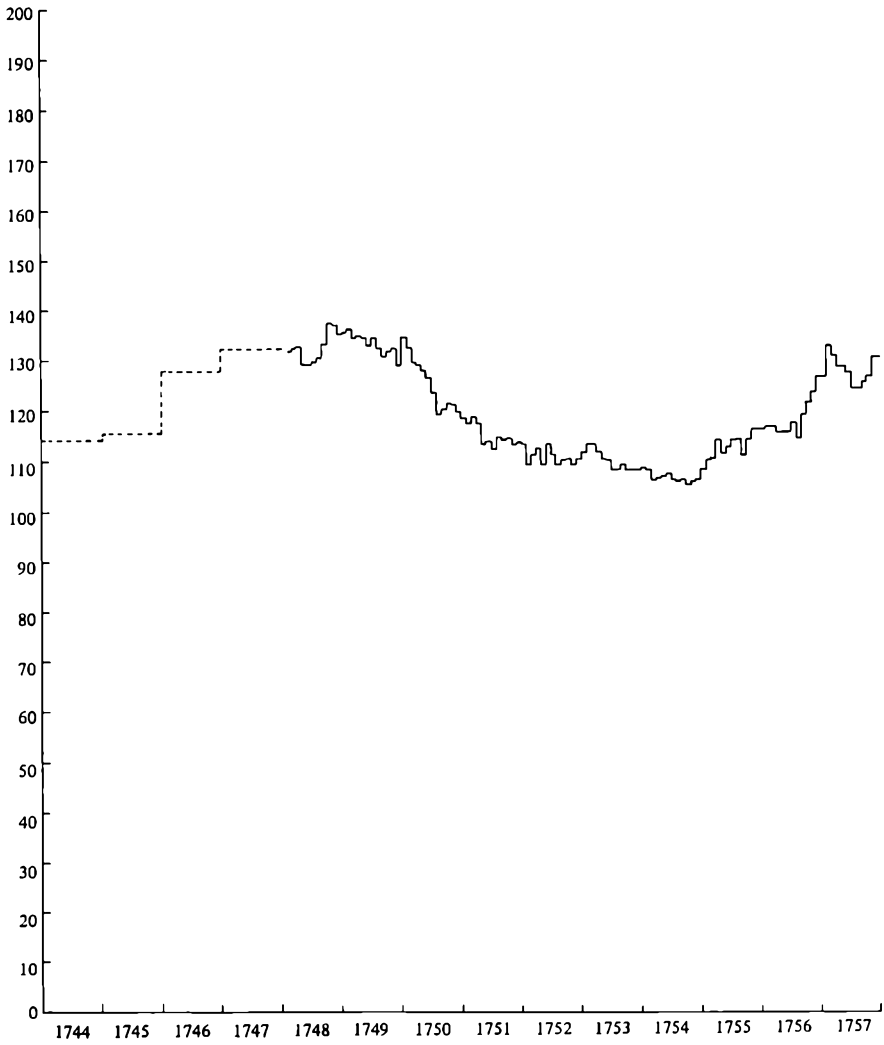
13. Kristof Glamann: *Bryggeriets historie i Danmark*. 1962, p. 180 f.

Fig. 11 (continued on pp. 72–75)



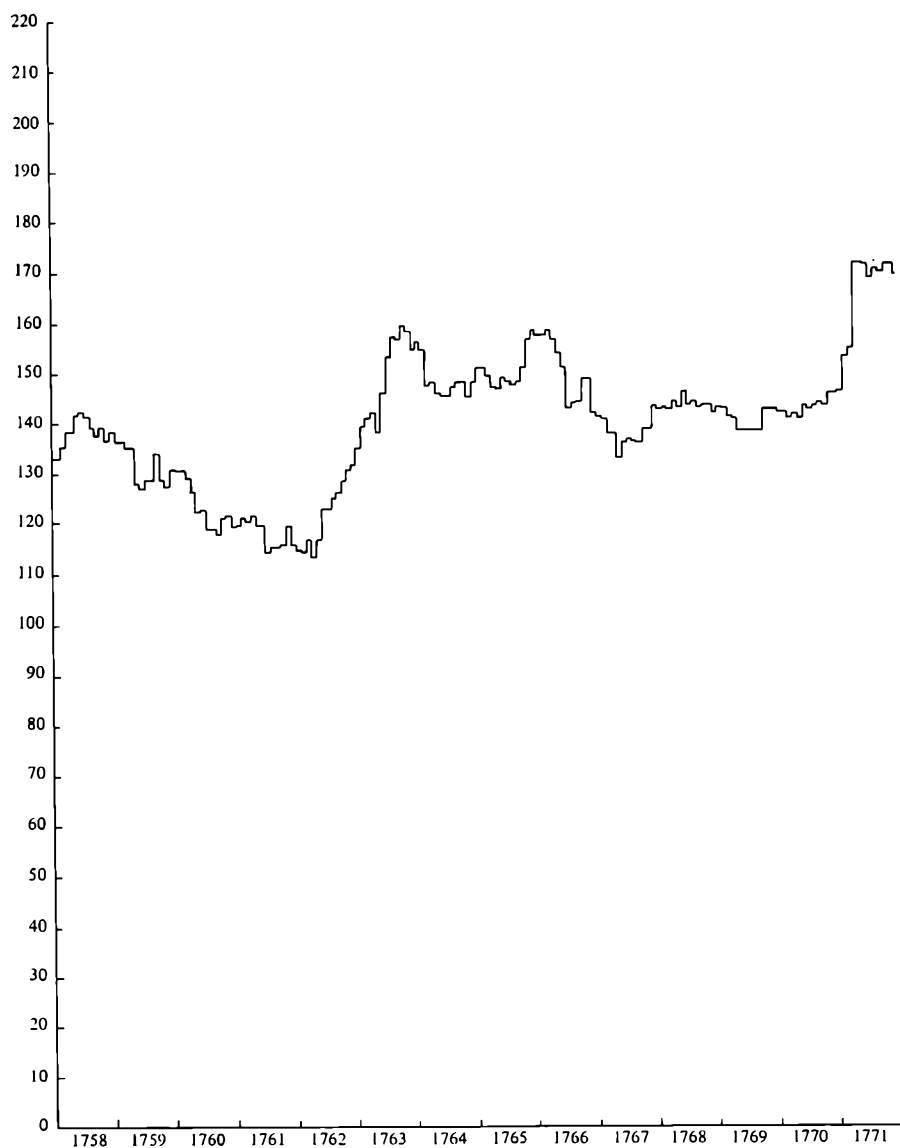
index rose from 145.8 to 170.7 between January and April. It is clear that in a price movement of this sort, a price index expresses what a particular budget will cost in a particular year but does not reveal anything about the sum actually expended upon consumption in that

Fig. 11 (continued)



year, since such a price movement necessarily brought in its wake a shift of consumption from animal to vegetable calories, as is demonstrated in the previous chapter in respect of 1771-72.

Fig. 11 (continued)



It is apparent from the figure that over and above the individual price fluctuations, the general trend is a rising one. For the inhabitants of 18th century Copenhagen, price fluctuations were certainly a far more



Fig. 11 (continued)

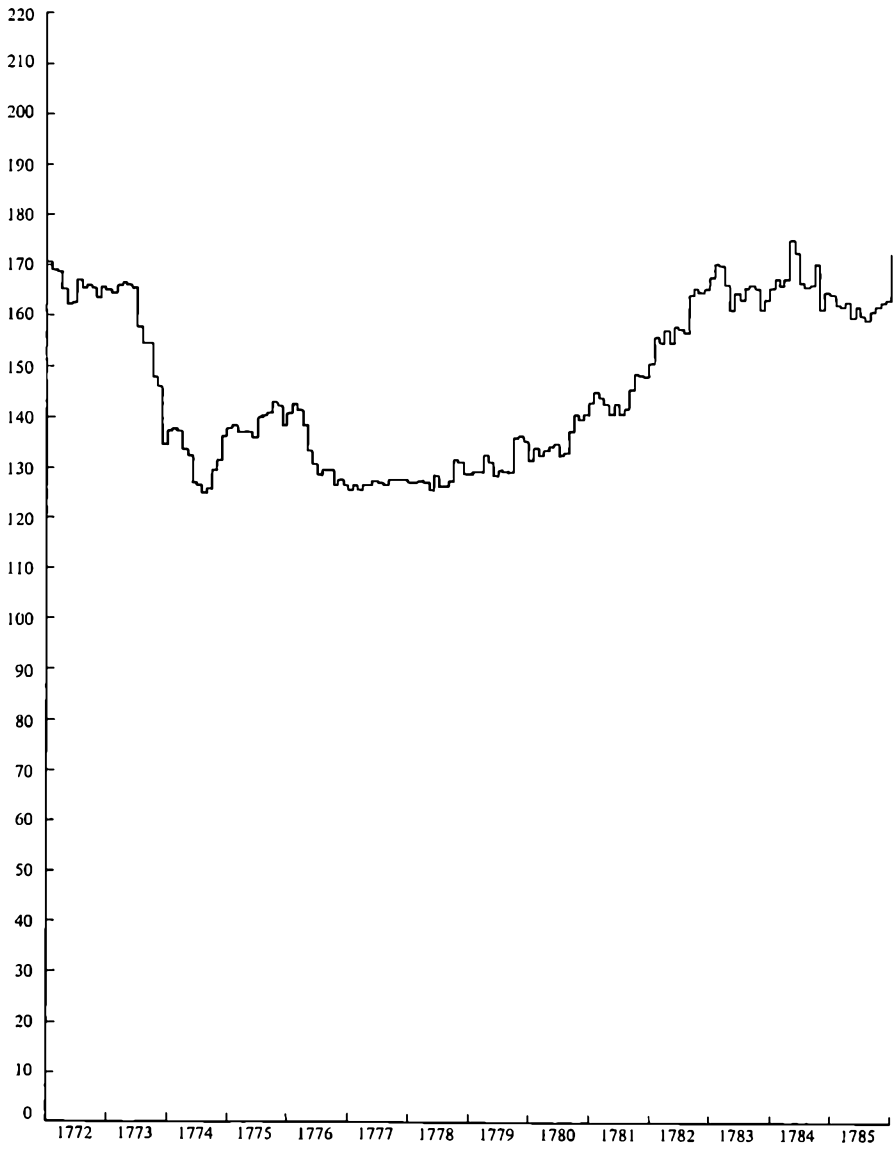
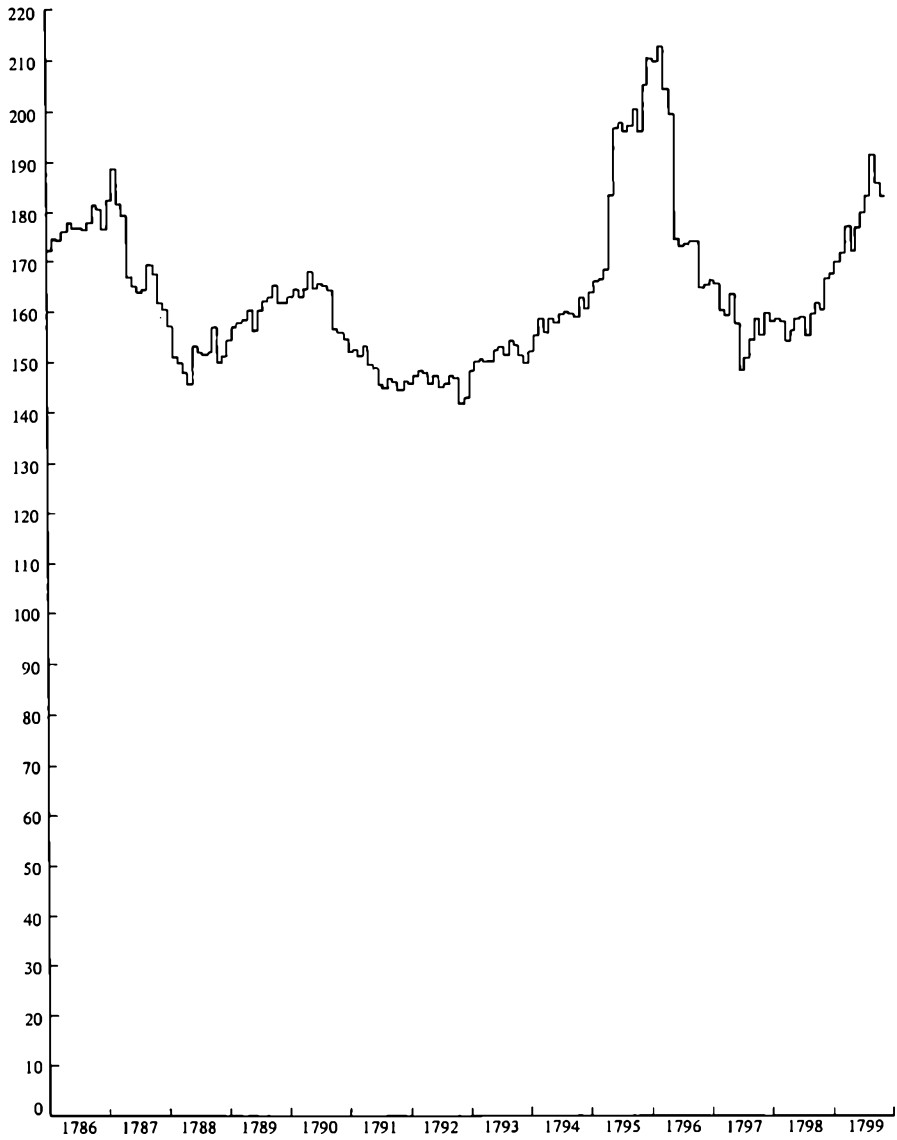
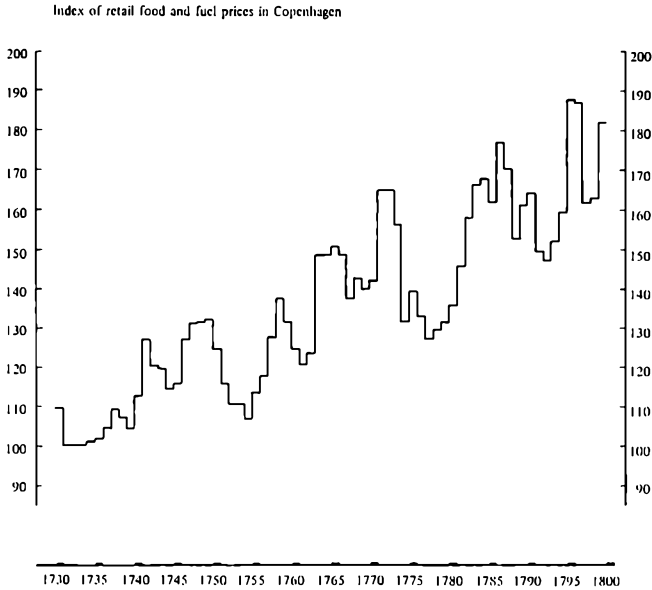


Fig. 11 (continued)



Source: C. F. page 62 ff

Fig. 12



Source: Appendix 3.2

dominant phenomenon than the slowly rising long-term trend into which the fluctuations resolved themselves.

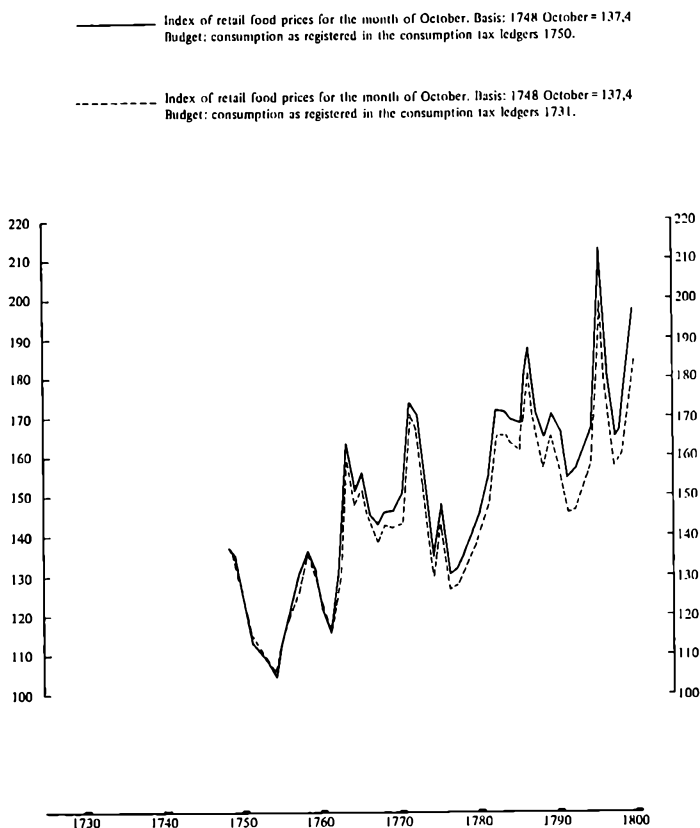
For the period 1760–69 there is a record of imports of wood-fuel into Copenhagen. This record is compiled in terms of fathoms and wagon-loads. If three loads are taken to equal one fathom, as Frederik Thaarup suggests<sup>14)</sup>, this shows an average annual *per capita* fuel consumption for 1760–69 of 0.18 fathoms. Imports of peat figure in the consumption tax ledgers<sup>15)</sup>, but as no continuous price-series for peat spanning the period 1730–1800 has come to light, one load of peat is reckoned as roughly equivalent to one load of wood-fuel since according to the Copenhagen market prices of 1759–1800, in which both kinds of fuel are recorded, the price of a load of peat was about the same as that of a load of wood-fuel<sup>16)</sup>. If the average annual *per capita* imports of

14. Frederik Thaarup: *Journal og Haandbog for Kjøbenhavnere*, I, 1797, p. 346.

15. RA GenToldkamm: *rev. regnsk.*; København; *Antegnelser, ekstrakter m. v.* 1760–69.

16. Friis and Glamann: *A History of Prices and Wages in Denmark 1660–1800*, vol. I, 1958, p. 322 ff.

Fig. 13



Source: C. F. page 78

peat of 1760–69 are converted in accordance with this ratio and the one previously mentioned for the conversion of loads of wood-fuel to fathoms, the final result is an average annual *per capita* fuel consumption of 0.20 fathoms. As there are no continuous price-series for wood-fuel among the Copenhagen market prices, the purchase price of wood-fuel according to the Copenhagen municipal treasury ledgers is used instead. Appendix 3.03 shows the annual average of the price index computed in respect of the *per capita* consumption of food 1731, with an addition for the *per capita* consumption of fuel computed as described above. The movements of the two price indices are in essentials the same. The index

based on both food and fuel is shown in fig. 12. The figure rises from 100 in 1731 to about 182 in 1799, which may be regarded as quite a moderate inflation. However, it must constantly be remembered that the short time fluctuations are of such dimensions relative to the overall trend as to have had a crucial impact on living standards, and that it is therefore not enough to concentrate attention on the long-term trend alone.

With price fluctuations such as these, trends in consumption cannot be expected to proceed at an even pace, and the previous chapter has shown also that the ratio of animal to vegetable calories oscillated with the prices.

As a means of illustrating the trend pertaining to other patterns of consumption than that employed for 1731, a price index has been computed for the annual *per capita* pattern of consumption registered in the consumption tax ledgers of 1750 (cf. Appendix 3.1). In this pattern, the consumption of bread was larger and that of beef was smaller, on account of the cattle plague, the consumption of pork was about the same and the consumption of fish larger. This pattern of consumption is a cheaper one in absolute terms<sup>17)</sup>, but the price movement for such a budget emerges as about the same as for budgets according to the consumption registered in the consumption tax ledgers for 1731. This is shown by fig. 13, which incorporates, firstly, the index price values for the month of October according to the budget of 1731 and, secondly, the index price values for the month of October according to the budget of 1750. The index for the budget of 1750 is so constructed that the value for October 1748 is made equal to that of October 1748 according to the budget of 1731. The movement of the two budgets when converted to indices is very similar.

17. E. g.:

|              |             |      |                                 |
|--------------|-------------|------|---------------------------------|
| October 1748 | budget 1731 | 2353 | <i>sk. per capita per annum</i> |
|              | budget 1750 | 2038 | <i>sk. per capita per annum</i> |
| October 1749 | budget 1731 | 2262 | <i>sk. per capita per annum</i> |
|              | budget 1750 | 2004 | <i>sk. per capita per annum</i> |

## 8. The movements of wages 1730–1800

The movement of wages in certain occupations is described here. Selection of these occupations was influenced by the need for them to be of the sort either where the wages were paid entirely in cash or where payments in kind (victualling, accommodation, clothing etc.) were precisely defined. The following are the groups selected:

1. Workmen paid directly by the Copenhagen magistrates. Wages were paid wholly in cash.

2. Weavers at the Cotton Factory. Remuneration was in the form of piece-rate wages plus free accommodation.

3. Journeymen-carpenters and masons, mortar-men and hodmen. These journeymen did not live with the masters as in other crafts because of the very large number of journeymen in relation to masters<sup>1)</sup>. The only known payment in kind to these workmen consisted of the journeyman-carpenter's traditional right to chippings—i. e., waste timber—which they used as fuel. Carpenters were repeatedly being forbidden to receive chippings, or chipping-money in lieu, but without any apparent effect<sup>2)</sup>.

4. Naval seamen and artificers. A large proportion of the remuneration was in kind, but this was precisely defined.

### The remuneration of workmen

The Copenhagen municipal treasury ledgers contain quite detailed information about the remuneration for workmen's labour. Work in sand- and gravel-pits, road-mending, drain-clearing, garden-work etc. – all these are mentioned<sup>3)</sup>. The wages entered in the ledger probably do cor-

1. Cf. p. 22 and C. Nyrop: *Kjøbenhavns Murer- og Stenhuggerlav*, 1907, p. 167 and p. 231, and C. Nyrop: *Kjøbenhavns Tømmerlav*, 1887, p. 115 f.

2. C. Nyrop: *Kjøbenhavns Tømmerlav*, 1887, p. 95 and 146.

3. P. *Københavns kærnerregnskaber*.

respond to what was paid out to the workmen, since it appears from the expenditure vouchers that the magistrates did not employ contractors but instead had their own factor of works, who superintended the operations and paid out the wages. Since both labour-wages and factor's fees are recorded in the expenditure vouchers, it may be presumed that the wages stated were paid to the workmen without any deduction<sup>4</sup>). The Copenhagen municipal treasury ledgers contain also records relating to the remuneration of masons' hodmen, but these consist of invoices from master masons, and the wages stated are presumably inclusive of the master's emolument. I have therefore kept them separate from the wage-records referred to above.

Appendix 4.01 indicate the number of days for which day-wages of 14 *sk.* are paid, the number of days for which 16 *sk.* are paid, and so on, as recorded in the surviving vouchers. It appears that for the major part of the epoch there were in practice only one or two wage rates and that these remained unaltered for long periods of time. It is not to be inferred from this that the annual wage was constant during those periods when wage rates were constant, firstly of course because of the problem of seasonal unemployment, which will be dealt with later, but secondly because there also were variations in the application of wage rates, bringing about variations of the annual wage of individual workmen. As a contribution to the destruction of the myth that wages remained totally unchanged for long periods in the 18th century<sup>5</sup>), the wages paid out according to the municipal treasury ledgers during the years 1730–1800 are specified precisely below:

1730: The vouchers have not survived.

1731–32: 16 *sk.* a day was paid throughout the year.

1733: 16 *sk.* was paid in spring and summer, but only 14 *sk.* from 18 October. There are also, however, isolated cases in the spring of 1733 where 14 *sk.* a day was paid.

1734: 14 *sk.* a day was paid as late as 4 April, but at least from May onwards 16 *sk.* a day was paid.

1735: The vouchers have not survived.

1736–49: 16 *sk.* a day was paid in both summer and winter, but only a very few working days can be checked from October to April.

1750: The normal day-wage in both summer and winter was 16 *sk.*

4. Cf. Kbh. Stadsarkiv, Bilag til Kæmnerregnskaberne, e. g., 1797.

5. Cf. e. g. Hans Chr. Johansen: Dansk økonomisk politik i årene efter 1784, vol. 1, p. 318, 1968.

a day, but some workmen received 20 *sk.* This appears from a note on the expenditure voucher: "On account of the heavy labour . . . , and the great amount of labour incurred by those building at Amalienborg Plads, 4 *sk.* daily was added for every man, in order that they should continue at the work."

1751: A number of workmen were paid 20 *sk.* in summer and 16 *sk.* in winter, while others received 16 *sk.* a day in both summer and winter.

1752: Some received 16 *sk.* throughout the year, while others received 20, 24, 28 or 32 *sk.* at least during part of the year.

1753: 24 *sk.* a day was paid in the summer period 1 April–28. September and 20 *sk.* a day before 31 March and after 1 October.

1754: Wage rates in general were similar to those of 1753, but some workmen received 20 *sk.* in both summer and winter.

1755–59: Some workmen received 24 *sk.* a day in April/May–September and 20 *sk.* in winter, while others got 20 *sk.* a day throughout the year. The respective durations of the summer and winter seasons could vary from one year to another. In 1756 the winter day-wage (20 *sk.* a day) was paid from 20 September onwards.

1760: No case can be discovered of 20 *sk.* a day being paid in the summer of this year. The summer day-wage for all workmen was 24 *sk.* and the winter wage was 20 *sk.* a day.

1761: Workmen on road-mending received 20 *sk.* a day throughout the year, while workmen at the gravel-pits had 24 *sk.* a day in the summer.

1762: Information is very sparse.

1763–71: 24 *sk.* a day was paid in the summer, i. e. April/May–September/October, and 20 *sk.* a day in the winter. However, workmen clearing drains received 20 *sk.* throughout the year in 1763–68.

1772: As for 1771, except that certain roadmenders received 24 *sk.* from October to December.

1773–78: As for 1763–71.

1779–80: As for 1763–71, but certain road-menders received 24–28 *sk.* a day from October to December.

1781–94: All workmen received 20 *sk.* from October to March and 24 *sk.* from April to September. This included workmen on drainage clearance.

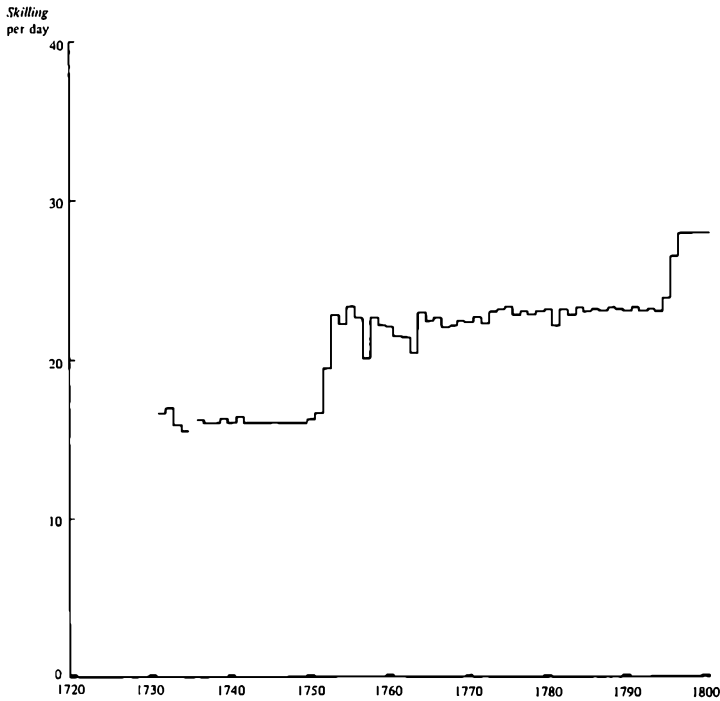
1795: Up to 31 March all workmen received 20 *sk.* and thereafter 24 *sk.* a day, i. e. all received 24 *sk.* a day in the winter of 1795–96.

1796: 24 *sk.* a day was paid from 1 January to 31 March and from



Fig. 14

Day-wages of workmen, Copenhagen municipal treasury ledgers. Average of wages paid out.



Source: Appendix 4.02

1 October to 31 December; 28 *sk.* a day was paid from 1 April to 30 September.

1797: From 1 January to 30 December 28 *sk.* a day was paid in the sandpits.

1798–1800: Information is sparse.

From all this it is evident that while wage rates might be unaltered from year to year, there could nevertheless be changes in the periods to which the rates were applied and in the groups receiving the various rates. The figures in Appendix 4.01 have therefore been used as a basis from which to calculate annual averages of the day-wages paid in 1731–1800, cf. Appendix 4.02. It should be observed, however, that the basis of calculation for 1798–1800 is different from that for the rest of the

period as the wages for workmen in sandpits and on road-mending are missing for these years. The rise to 28 *sk.* a day, however, had already taken place by 1797, when these groups still do figure in the calculation (cf. Appendix 4.01). The figures from Appendix 4.02 are represented graphically in fig. 14.

## Weavers at the Royal Chartered Cotton Manufactory

The Royal Chartered Cotton Manufactory (*Det Kongelige privilegerede Bomuldsmanufaktur*) came into being in 1779; its foundation was financed by the state. In 1782 the business was transferred to a private joint stock company, but in 1788 the state had to redeem the shares and take over the management. In 1795 the factory was sold to The Corporation of Silk and Cloth Dealers (*Silke- og Klædekræmmerlauget*). Books relating to the weavers at the cotton factory have survived for the period 1782–95. The men were paid on piece rates and received their wages about once a week. At intervals an accounting between the factory and the weavers would be drawn up but without any settlement taking place, since weavers as a rule owed money to the factory<sup>6</sup>). Appendix 4.03 show how much was paid out annually to ten different workmen from 1782–95; nine of these lived in the factory, and may therefore be presumed not to have had any real secondary occupation. It is possible, however, that one or more of the weavers may have been soldiers at the same time. The reason for deciding to set out here the amounts *per annum* paid out to the weavers rather than the amounts *per annum* that they earned, is that from the viewpoint of the standard of living it makes no difference whether money spent was borrowed or earned; the volume of consumption is the essential point.

There are certain cases where it appears from the labour journals that a journeyman did no weaving for several months, but it is possible that in this period he may have been transferred to some other department of the factory (cf. Appendix 4.03, Johan Lydig and Johan Chr. Jeninger). The nature of the archive material, however, is such that one cannot be certain of finding workmen recorded in other departments of the factory if they were on transfer there, so that the annual amounts stated may be too low in some instances.

6. P. Industrilønninger. The account that follows of the Cotton Manufactory and its labour force is based upon a manuscript prepared by Professor Kristof Glammann.

The ten weavers to whom appendix 4.03 relate are selected among those whose affairs can be followed over lengthy periods in the ledgers. Probably, therefore, they are relatively skilled workers with whom we are dealing. Weight is lent to this by a letter from the Board of Trade (*Kommercekollegiet*) to the management of the Cotton Manufactory dated 8 February 1786, after the piece rate had been reduced. This declares that “a journey-man of moderate skill who works zealously can earn about 130–150 rix-dollars annually and in addition enjoy free lodging and bedding, free warmth during the hours of labour, exemption from the poll-tax (*kopskatten*) and free attendance in case of illness”<sup>7</sup>). Since the Board of Trade’s figures are probably on the high side it is indicative of their proficiency that three of the ten weavers earned over 150 rix-dollars in 1787 and five others more than 120 rix-dollars, while one of the ten (Josef Lydig) stopped weaving during that year and so cannot be counted.

Figs. 15 and 16 have been produced from Appendix 4.03. Data on the amounts that the workmen were paid in 1782 relate only to the latter part of the year; therefore, in order to make the 1782 amounts comparable with those of 1783, a calculation has been made of how much the workmen would have earned in 1782 had they received the same amount per week during that part of the year for which information is lacking as during that part for which records exist. This is shown by dotted lines in fig. 15. In considering these diagrams it must also be kept clearly in mind that a workman’s first and last year at the factory would normally not be complete calendar years. It is apparent from the diagrams that the amounts earned by most workmen were greatest in 1784 or 1785 and fell off thereafter.

## Wages of building artisans and their labourers

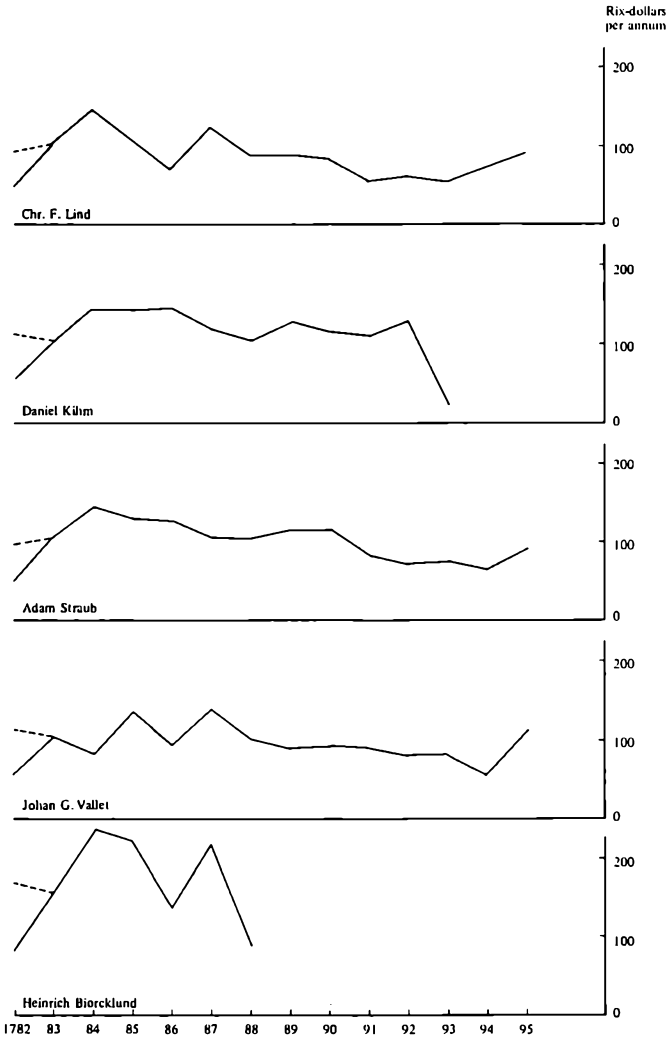
In the Copenhagen municipal treasury ledgers, the Copenhagen ecclesiastical ledgers (*københavnske kirkeregnskaber*) and the Copenhagen probate records (*københavnske skifter*), there is a large mass of data on the wages of journeymen-carpenters, journeymen-masons, mortar-men and hodmen<sup>8</sup>). In nearly all cases these wage-data occur in the form of invoices from master craftsmen for labour services rendered, which means that the day-wages stated consist of the amount paid out to the

7. Cf. p. 83, note 6.

8. P. *Københavnske kærnerregnskaber*, *Københavnske kirkeregnskaber* and *Københavnske skifter*.

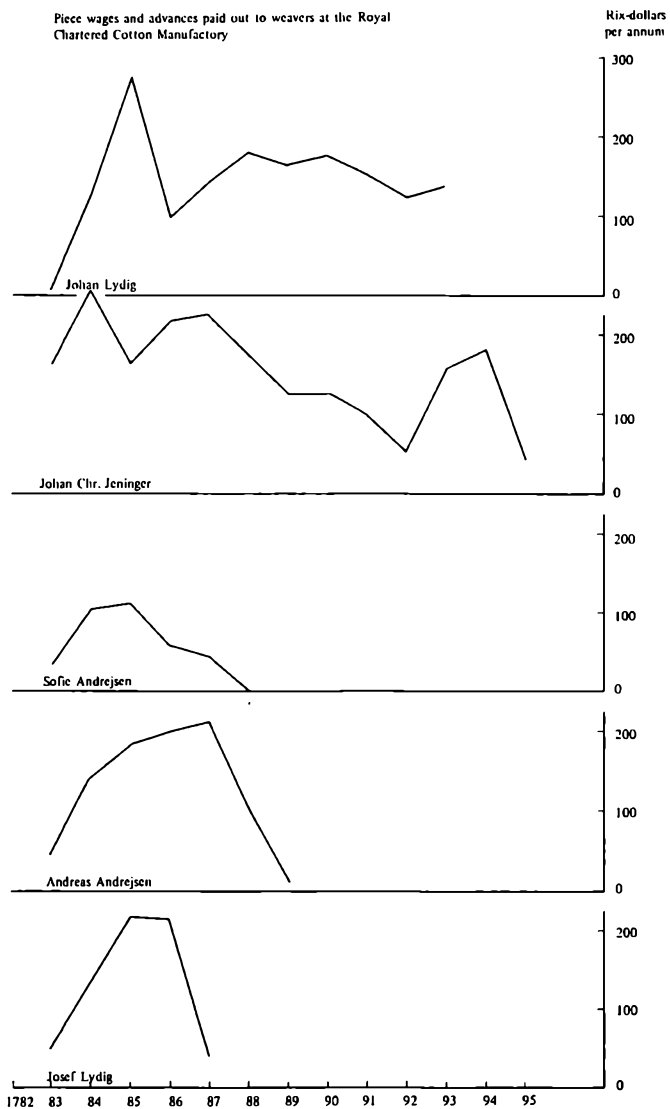
Fig. 15

Piece wages and advances paid out to weavers at the Royal Chartered Cotton Manufactory.



Source: Appendix 4.03

**Fig. 16**



Source: Appendix 4.03

workman plus the master's emolument. In the Copenhagen probate records is a series of data on true wages in the form of settlements of contracts between one or more journeymen and a deceased master's estate or between a master and a deceased journeyman's estate.

For part of the period under review, the true wage of hodmen and mortar-men inclusive of master's emolument was the same in both summer and winter, but at other times the wage rate differed between the two seasons; for carpenters and masons throughout the period, the day-wage varied from summer to winter, but the duration of the winter season was not the same for both. Therefore it is not possible simply to compare the summer day-wage or the winter day-wage of the different categories of building worker. Instead, the fiction has been devised that all were in employment throughout the year, and on this basis an average day-wage has been calculated for each year having regard to the level of summer and winter wages and the duration of the winter period. Even though this is a fiction there will nevertheless have been a quite large *difference* in winter unemployment for the above-mentioned groups, before the average day-wages are shifted substantially in relation to one another.

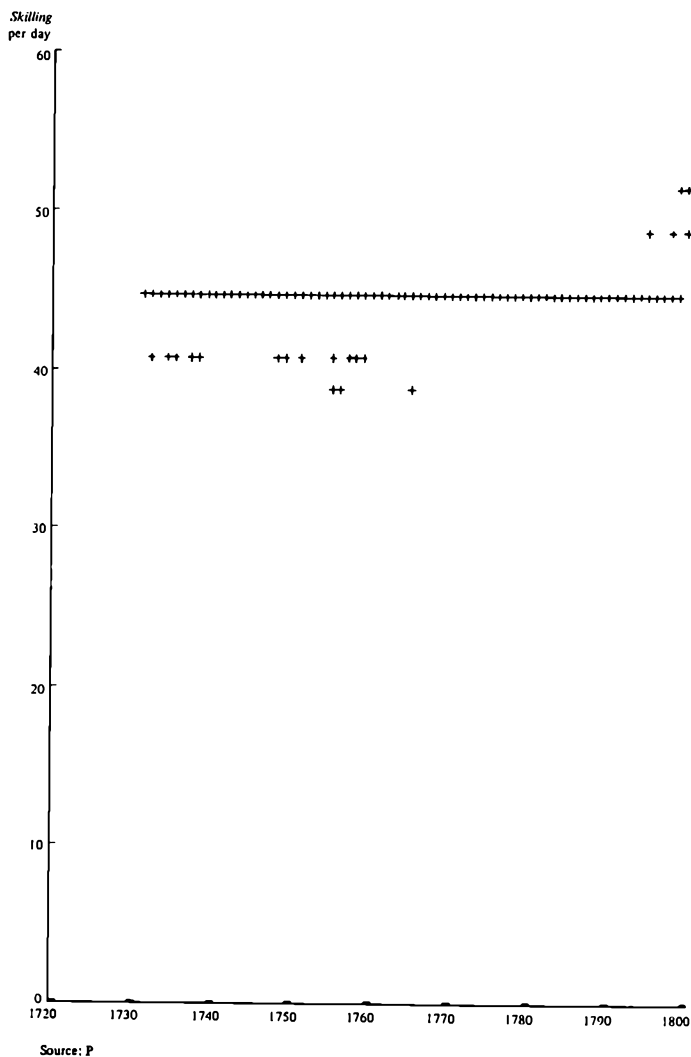
#### *Journeymen-carpenters*

Fig. 17 shows the average day-wage, including the masters emolument, for journeymen-carpenters according to the Copenhagen municipal treasury ledgers and the ledgers of the three Copenhagen churches: *St. Petri, Garnisons* and *Frederiks tyske Kirke*<sup>9)</sup>. Throughout the period under review journeymen-carpenters generally received summer day-wages from 22 February to 29 September and winter day-wages from 30 September to 21 February. Certain instances can be cited, however, where these dates were overstepped by some days in one or the other direction. The existence of a summer day-wage, inclusive of master's emolument, of 48 *sk.* and a winter one of 40 *sk.* has been ascertained in every year from 1731 to 1799; this is represented in the figure by the horizontal line. However, this rate of remuneration was not the only one in force: in 1755, for example, three levels are found for carpenter's day-wages plus master's emolument, viz. 32 *sk.* in winter and 40 *sk.* in summer, 36 *sk.* in winter and 44 *sk.* in summer, and 40 *sk.* in winter and 48 *sk.* in summer. These are represented by the three average day-

9. P. Frederiks tyske Kirke is the present Christians Kirke at Christianshavn.

Fig. 17

Journeymen-carpenters, average day-wage inclusive of master's remuneration according to the Copenhagen municipal treasury ledgers and the Copenhagen church ledgers.



wage rates for 1755 shown in fig. 17. The latter figure reveals that day-wages inclusive of master's emolument below 48 sk. in summer and 40 sk. in winter are only to be found before 1770; that inclusive wage-rates above 48 sk. in summer and 40 sk. in winter appear for the first time

in 1795; and that a peak was reached in 1796, when reconstruction following the fire of 1795 had got well under way. In 1796, however, 48–40 *sk.* was regularly understood to be the normal day-wage even if the wage plus master's emolument had by then risen. Thus, master carpenter Wahl was paid 48 *sk.* a day in summer and 40 *sk.* in winter for work at *Frederiks tyske Kirke* in 1796—but with the proviso that every working day should count as a day and a half<sup>10</sup>). This is tantamount to an increase of 50 %, even though the 48–40 *sk.* system was formally maintained. However, there were also cases in 1796 where masters apparently received only 48 *sk.* per working day in summer and 40 *sk.* in winter.

In assembling these wage data no account has been taken of piece wages, as they are incapable of comparison in practical terms.

Information about journeymen's wages—i. e., that proportion of the gross remuneration received by journeymen—is limited. The Copenhagen probate records show that in 1756–57, J. P. Wisborg's journeymen received 32 *sk.* for their labour in summer and 24 *sk.* in winter<sup>11</sup>). If the master invoiced 48 and 40 *sk.* respectively, this represents a master's emolument of 16 *sk.* a day. This agrees with what is shown in two probated estates of 1789 and 1795<sup>12</sup>). However, it would be unsafe exclusively on this basis to regard 16 *sk.* as the normal master's emolument for carpentry work.

### *Journeymen-masons*

Fig. 18 shows the average day-wage, inclusive of master's emolument, of journeymen-masons. The sources are the same as for journeymen-carpenters. Throughout the period under review, journeymen-masons received summer day-wages from Easter until 29 September<sup>13</sup>). In computing the average day-wage for the individual years, no account is taken of the movement of the Easter date; instead, the mean Easter position is used in each year's calculation. It is also the case, that in those years when Easter fell late, there are instances of summer wages being paid one or more weeks before Easter, while in some of the years

10. P. Københavns kirkeregnskaber, Frederiks tyske Kirke, 1796.

11. P. Københavnske skifter, tømrersvend, egentlig dagløn.

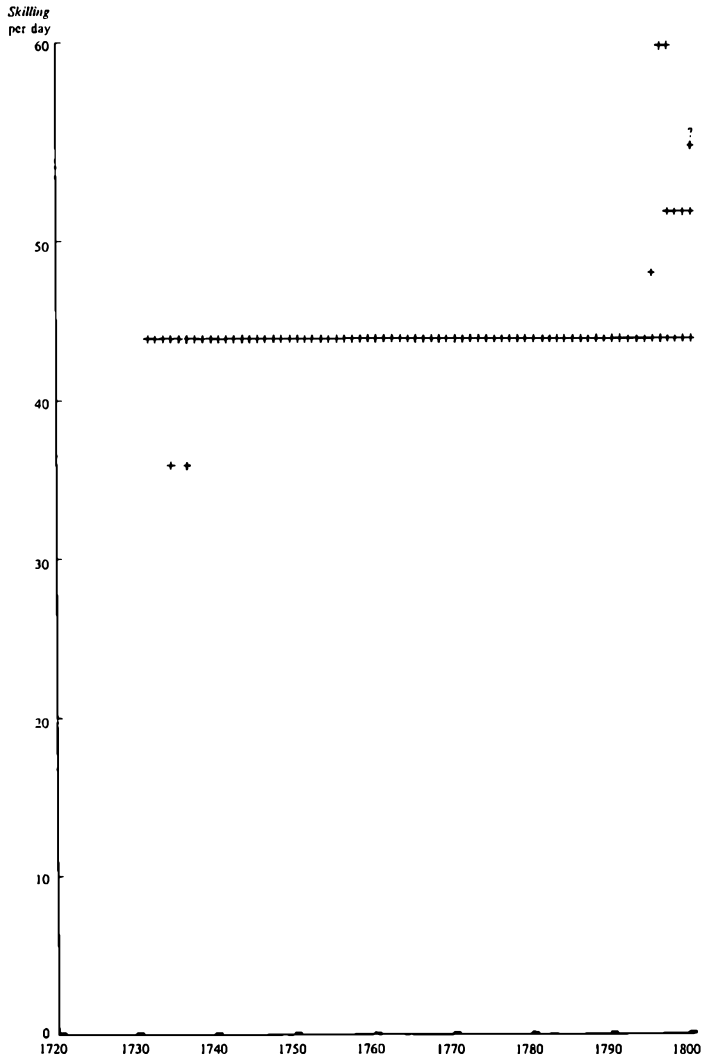
12. P. Edit Rasmussen's manuscript concerning journeymen's wages and master's emoluments, dated 1949.

13. The dates have been ascertained from a scrutiny of P. Københavns kærnerregnskaber and P. Københavnske kirkeregnskaber, cf. C. Nyrop: *Kjøbenhavns Tømmerlav* (sic!), 1887, p. 165.



Fig. 18

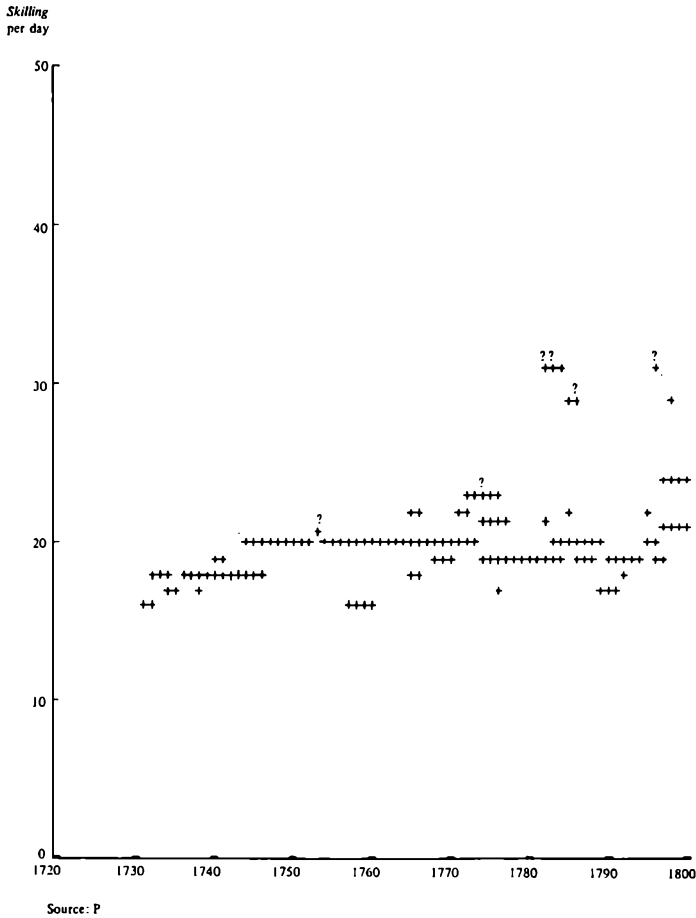
Journymen-masons, average day-wages inclusive of master's remuneration according to the Copenhagen municipal treasury ledgers and the Copenhagen church ledgers.



Source: P

Fig. 19

Hodmen. average day-wages inclusive of master's remuneration according to the Copenhagen municipal treasury ledgers and the Copenhagen church ledgers

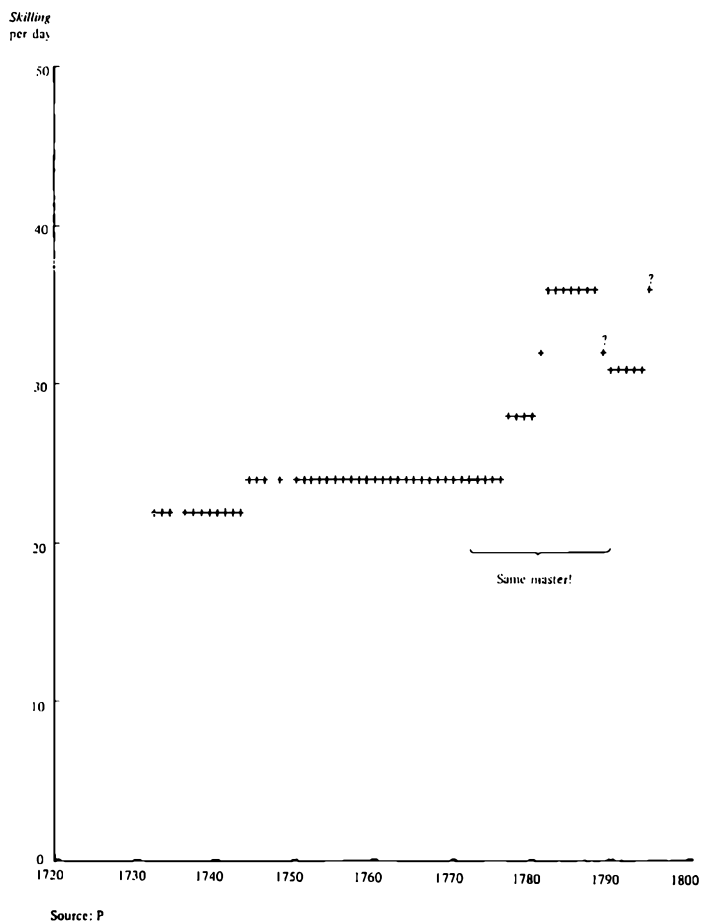


when Easter fell early, on the other hand, winter wages would continue for a time after Easter. The general rule, however, is that Easter marks the changeover from winter to summer day-wages.

As with journeymen-carpenters, the most common summer and winter day-wages for journeymen-masons, inclusive of master's emolument, were 48 and 40 *sk.* respectively. At the beginning of the period, however, there were occasional instances of lower wages and after 1795

Fig. 20

Mortar-men, average day-wages including master's remuneration according to the Copenhagen municipal treasury ledgers and the Copenhagen church ledgers.



a number of higher. The true journeyman-wage is revealed in nine estates probated during the period 1759–1801. In all these cases 40 *sk.* is paid in summer and 32 in winter <sup>14</sup>). Since in all likelihood the corresponding wage inclusive of masters emolument was 48 and 40 *sk.*, this produces a master's emolument of only 8 *sk.* a day, or half the

14. P. Københavnske skifter, murersvend, egentlig svendeløn.

estimated master's emolument for carpentry work, even though day-wages inclusive of master's emolument were similar in the two trades. It must be stressed, however, that the material used to determine the true day-wages of journeymen-carpenters is exceedingly meagre.

### *Hodmen and mortar-men*

Figs. 19 and 20 show the average day-wages, inclusive of master's emolument, of mason's hodmen and mortar-men. It is apparent that different wage levels for hodmen, inclusive of master's emolument, could prevail simultaneously. This is attributable to variations in wages-plus-emoluments as between one master and another. Therefore no conclusions can be drawn from any of the changes year to year in fig. 19, since they are often only due to the figures having originated from different masters. However, the values in fig. 19 show a generally rising curve.

Mortar-men's wages inclusive of master's emolument (fig. 20) exhibit the widest variations of all the wage rates here discussed. The curve starts at a level a little higher than the rates for hodmen but thereafter rises much more steeply. Moreover, the figures for 1773–1789, when the widest variations occur, all originate from the same master, so that there is no possibility of the changes being due to different masters charging different prices. Neither for hodmen nor for mortar-men has any material been found to shed light on the topic of true day-wages and master's emoluments.

Figs. 17–20 have been drawn on the same scale for purposes of comparison, although this has resulted in figs. 17–18 presenting a less effective appearance.

## Unemployment and annual wages

On any labour market, unemployment is normally understood as consisting of three types:

1. Seasonal unemployment, determined by the weather or by seasonal market fluctuations;
2. Cyclical unemployment, determined by fluctuations in general economic activity;
3. Technological unemployment, determined by changed production methods.

This distinction between different kinds of unemployment is of significance in any critical evaluation of the unemployment situation in 18th

century Copenhagen, since it is necessary to discriminate between seasonal unemployment and the two other types.

In the Copenhagen municipal treasury ledgers for the period 1731–89, only one summer day-wage for building labour, inclusive of master's emolument, is to be found in the invoices of master masons: 48 *sk.* and only one winter day-wage, inclusive of master's emolument: 40 *sk.* Therefore, in the limited number of cases where the season of work is not stated unequivocally, all the days of 48 *sk.* can be classed as summer days and all those at 40 *sk.* as winter days. When the respective numbers of summer and winter days are grouped by decades, the following is the result<sup>15</sup>):

|         |                      |             |
|---------|----------------------|-------------|
| 1731–39 | 520 <sup>3/4</sup>   | summer days |
|         | 337                  | winter days |
| 1740–49 | 744 <sup>1/4</sup>   | summer days |
|         | 303 <sup>1/2</sup>   | winter days |
| 1750–59 | 780                  | summer days |
|         | 402 <sup>1/2</sup>   | winter days |
| 1760–69 | 538 <sup>1/2</sup>   | summer days |
|         | 316 <sup>1/2</sup>   | winter days |
| 1770–79 | 2,172 <sup>3/4</sup> | summer days |
|         | 1,084 <sup>1/2</sup> | winter days |
| 1780–89 | 5,178 <sup>3/4</sup> | summer days |
|         | 1,801                | winter days |

Since journeymen-masons received summer wages from Easter to Michaelmas (29/9)<sup>16</sup>), full employment in summer and winter would bring an average ratio of 1:1.04 between the numbers of summer and winter days. Calculation of the ratios between the numbers of summer and winter days in the above examples produces the following:

|         |          |
|---------|----------|
| 1731–39 | 1 : 0.65 |
| 1740–49 | 1 : 0.41 |
| 1750–59 | 1 : 0.52 |
| 1760–69 | 1 : 0.59 |
| 1770–79 | 1 : 0.50 |
| 1780–89 | 1 : 0.35 |

The average of these six ratios is 1:0.48.

15. Basis of calculation: P: Københavns k mnerregnskaber.

16. Cf. p. 89.

It follows that if the building work paid for from the Copenhagen municipal treasury was distributed over the year in the same way as building work generally in Copenhagen, then journeymen-masons had employment on only about half as many winter days as summer days; and since the year contained nearly as many summer days as winter days, this means that if it was customary for journeymen-masons to have work during the whole summer half-year, equally it was customary for them to be without employment for about half the winter half-year.

If the number of possible working days in the year is reckoned at 300 <sup>17)</sup>, and if it is assumed that a journeyman-mason was out of work on half the winter days, then a summer day-wage excluding master's emolument of 40 *sk.* and a winter day-wage excluding master's emolument of 32 *sk.* would give an annual wage of 87½ rix-dollars.

A similar calculation applied to the Copenhagen municipal treasury ledgers in respect of summer and winter day-wages paid out for carpentry work gives <sup>18)</sup>:

|         | Summer days | Winter days | Summer days : winter days |
|---------|-------------|-------------|---------------------------|
| 1731-39 | 1,735¼      | 736         | 1 : 0.42                  |
| 1740-49 | 2,515½      | 1,088½      | 1 : 0.43                  |
| 1750-59 | 2,733½      | 1,340       | 1 : 0.49                  |
| 1760-69 | 3,186½      | 1,705       | 1 : 0.54                  |
| 1770-79 | 2,860       | 1,291       | 1 : 0.45                  |
| 1780-89 | 7,176½      | 2,033½      | 1 : 0.28                  |

The average of the six ratios is 1:0.42. For carpenters, the summer period lasted from 22/2 to 29/9 <sup>19)</sup>. Employment all the year round would give a ratio between summer and winter days of 1:0.72. Thus the figures cited above are indicative of winter unemployment. A calculation based on the suppositions that the ratio of employed summer days to employed winter days in the municipal treasury ledgers was of general application and that journeymen-carpenters had employment throughout the summer season suggests that journeymen-carpenters were employed on 82 % of the working days of the year. It is less probable, however,

17. 365 days less Sundays and Holy-days. The number of working days for the carpenters of the navy was 295 per annum until 1784 and 304 thereafter. Sources as for Appendix 4.12.

18. Basis of calculation: P. Københavns kæmnerregnskaber.

19. Cf. p. 87.

that this suppositions applied to carpenters than to masons, since the summer season for carpenters was from 22 February to 29 September, as stated above, while for masons it was from Easter to 29 September.

Thus, the conclusion to be drawn from these studies of the summer and winter employment figures in the Copenhagen municipal treasury ledgers is that if these figures are representative, journeymen-masons were employed on not more than 75% of the working days of the year and journeymen-carpenters on not more than 82 %, but that the former figure is more probably accurate than the latter.

It is clear that from figure-series such as those above no conclusions can be drawn about cyclical or technological unemployment, since the business activities of the municipal authorities will not necessarily have fluctuated in harmony with general business activity in the city.

Where workmen appointed under the Magistrates are concerned, it is possible for certain years to see the variation in the numbers employed month by month. In 1797, for example, it can be seen how the number of employees in the Copenhagen Magistrates' sandpit was substantially lowered in the winter <sup>20</sup>). If it be assumed that workmen in Copenhagen were employed on 3/4 of the 300 working days of the year at the average day-wage paid to workmen under the municipal authorities, then an annual wage is arrived at amounting in 1731–52 to about 38 rix-dollars, in 1753–95 to about 50–55 rix-dollars, in 1796 to about 62 rix-dollars and in 1797–1800 to about 65½ rix-dollars.

#### *Wages of naval seamen and artificers*

The navy seems to have been the largest employer of labour in Copenhagen in the 18th century. Naval artificers, like seamen, were enlisted on contract for several years, so that there was no question of seasonal lay-offs. However, the manning strength could be modified substantially from one year to another by either recruiting new seamen and artificers or refraining from renewing the contracts of the old. It has not been possible to ascertain the manning strengths with complete accuracy, since the numbers shown in the pay regulations are only budget figures. But for some years it is possible to discover the numbers of shore rations month by month and thereby form a good idea of the manning strength. Of the artificers, something under a hundred smiths and quartermasters

20. Københavns Stadsarkiv. Bilag til k mnerregnskaberne 1797–99.

received 1½ rations, the rest receiving only 1 ration <sup>21</sup>). This means that, generally speaking, an increase from 1,500 to 1,800 rations reflected an expansion of the labour force by 300 men.

At certain times there were quite large changes in the numbers of artificers on strength. From 1757 to 1758 the number of shore rations rose from about 1,200 to about 1,500, corresponding to an increase from about 1,100 to about 1,400 artificers. Between 1770 and 1772, shore rations went up from about 1,500 to about 1,950, which means an increase of about 450 in the number of artificers. However, it is problematical how far such new recruiting took place in Copenhagen and therefore how far it affected the Copenhagen labour market. But there can be little doubt that when the number of artificers was reduced in 1774–75 by about 400 men, the strain must have been taken by the Copenhagen labour market in the first instance <sup>22</sup>).

The unemployment described here is nearest to the cyclical in its form, though the conditioning factors are political, not economic.

It is possible to make a comparison between the above-calculated annual wages of journeymen-masons and the pay of naval personnel in the 1780s. If the value of the shore ration is assumed to equal the average of the cost to the navy of a shore ration in 1783–89 <sup>23</sup>) and clothing and quartering or quartering-money are regarded as equal to the budget value <sup>24</sup>), the following table is produced:

|                 | Carpenter<br>1st Class | Carpenter<br>7th Class | Seaman      |
|-----------------|------------------------|------------------------|-------------|
| Yearly pay      | 15 : 80 rd.            | 15 : 80 rd.            | 15 : 80 rd. |
| Clothing        | 3 : 00 rd.             | 3 : 00 rd.             | 3 : 00 rd.  |
| Quartering      | 4 : 00 rd.             | 4 : 00 rd.             | 4 : 00 rd.  |
| Rations         | 37 : 38 rd.            | 37 : 38 rd.            | 37 : 38 rd. |
| Day-wages       | 54 : 20 rd.            | 22 : 16 rd.            | 0 : 00 rd.  |
| Total per annum | 114 : 42 rd.           | 82 : 38 rd.            | 60 : 22 rd. |

21. The sources for this are the same as the sources for Appendix 4.12.

22. Sources:

1747–59: RA, Søetaten: Bogholderkontoret, Søetatens hovedbøger 1747–59. The relevant data are in the malt-money ledgers. Since 50 *sk.* per man per month was expended on shore rations, the number of shore rations can be worked out from the malt-money ledgers.

1760–84: Håndværksstokkens mønsterskriverkontor, provianteringsbøger 1760–84.

1784–94: 3. Departement, udgiftsbog over landkost 1784–94.

23. RA Søetaten: Bogholderkontoret; Betalingsreglementer 1784–90.

24. Cf. Appendix 4.11–4.12 and sources thereto.



## 9. The movement of real wages 1730–1800

By correlating the retail price index computed in Chapter 7 with the movement of wages as described in Chapter 8, the movement of real wages in the various occupations will be revealed. Since the movement of wages in the various occupations was not uniform, no conclusions can be drawn as to any dominant trend of wage-earners' real remuneration in 1730–1800.

Fig. 21 shows the average day-wage of workmen according to the Copenhagen municipal treasury ledgers and the retail index-figure for food and fuel with the budget of 1731 (average of 1760–69 in the case of fuel). Fig. 22 shows the curve for real wages computed on the same basis.

It is apparent from this that real wages were about the same at the end of the period as at the beginning, but that in the interval there were substantial fluctuations.

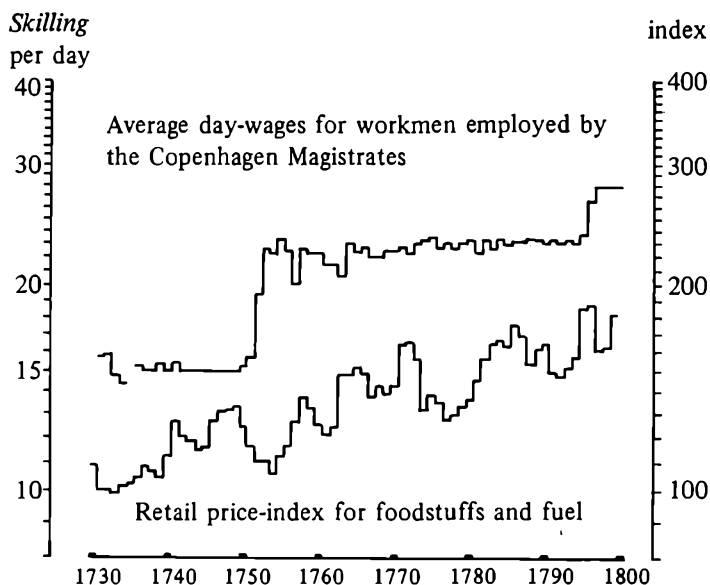
This conclusion emerges from a comparison between day-wages and the index-figure. If the yearly wage did not move proportionately to day-wages, i. e. if seasonal unemployment changed during the period, then naturally the conclusions have no validity.

The yearly wage of the weavers at the Cotton Manufactory whose remuneration has been studied fell on an average by about a half between 1784–85 and the beginning of the 1790s<sup>1</sup>). At the same time the index-figure declined from about 180 to about 155, a fall of about 15 %. Thus a substantial reduction of real wages was involved.

Assuming that the yearly wage of journeymen-carpenters and journeymen-masons moved in proportion to the day-wage inclusive of master's remuneration, a real-wage curve for these occupations would be broadly reciprocal to the index-figure curve, which is to say that real wages were

1. Cf. figs. 15–16.

Fig. 21



Sources: Appendix 4.02

substantially reduced<sup>2)</sup>). However, the increase in day-wages inclusive of master's remuneration in the final five-year period of the century seems to imply that part of the loss of real wages was recovered, though only a part.

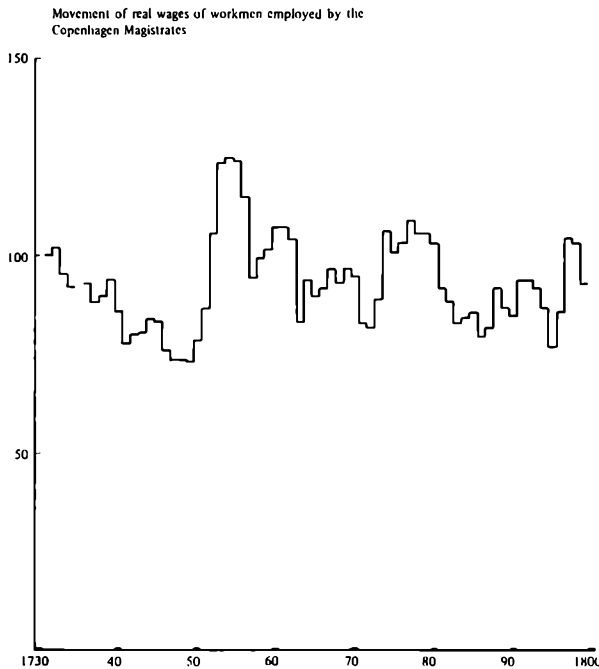
Working on the same assumption that the yearly wage moved proportionately to the day-wage including master's emolument, the real wages of mortar-men were at the same level in 1780 as at the beginning of the period, while in the last half of the 1740s, in the 1760s and in the first half of the 1770s they were substantially lower<sup>3)</sup>.

The movement of hodmen's day-wages including master's emolument according to the Copenhagen church ledgers and the Copenhagen municipal treasury ledgers suggests that wages did not rise as much for hodmen as they did for workmen engaged by the Copenhagen Magistra-

2. Cf. Figs. 17-18.

3. Cf. fig. 20.

Fig. 22



Source: Appendix 4.02

tes<sup>4</sup>). Furthermore, it is difficult to ascertain the points in time when the hodmen's wages were raised. At the beginning of the period, workmen engaged by the Copenhagen Magistrates received 16 *sk.* a day, while the general day-wage of hodmen, inclusive of master's emolument was 18 *sk.* By the end of the period workmen under the Magistrates were getting 28 *sk.* a day, but the general day-wage of hodmen inclusive of master's emolument was 24 *sk.* Thus, while the real wage of workmen engaged by the Magistrates was at about the same level at the beginning and end of the period, the real wage of hodmen had declined by the end of the period, assuming of course that the level of employment of hodmen had not risen during the period.

Thus the trend of real wages through the period among the categories examined in this study was not identical. However, it is essential to

4. Cf. figs. 14 and 19.

remember that artisans in the building trades, whose real wages appear to have fallen appreciably during the period, were considerably better paid at the beginning of the period than were those workmen whose real wages viewed over the period as a whole maintained their level.

For the first half of the 1790s it is possible to compare estimated yearly wages with rents and food prices, so forming some idea of the overall budget of families of the artisan and labouring classes. After the fire of Copenhagen in 1795 a public debate arose about the level of rents that the lower orders of society could afford. Most of those taking part spoke of annual rents of 10–30 rix-dollars as being fair and reasonable<sup>5</sup>). Since the debate was born of the rise in rents after the fire, it may be presumed that what was then regarded as fair and reasonable corresponded to the level of rents before the fire.

As mentioned in Chapter 2, artisan and labouring class families had an average of 1–2 children living at home<sup>6</sup>). The following calculation has been made for a family with one child, the family's daily calorie intake being put at 7,200 kcal. The annual cost of obtaining this has been computed, firstly on the basis of the pattern of consumption from which the monthly price index<sup>7</sup>) is calculated (i. e. with 27.5 % of the calories derived from animal foodstuffs), and secondly assuming all of the 7,200 kcal. to be derived from rye bread, i. e. 0 % from animal foodstuffs<sup>8</sup>).

|      | Annual cost of 7,200 kcal.                                      |  |
|------|---|--|
|      | With 27.5 % of the calorie-level derived from animal foodstuffs | With 0 % of the calorie-level derived from animal foodstuffs |
| 1790 | 86 rix-dollars  | 45 rix-dollars   |
| 1791 | 79 rix-dollars  | 34 rix-dollars   |
| 1792 | 76 rix-dollars  | 35 rix-dollars   |
| 1793 | 80 rix-dollars  | 40 rix-dollars   |
| 1794 | 84 rix-dollars  | 41 rix-dollars   |
| 1795 | 99 rix-dollars  | 48 rix-dollars   |

5. Meddelelser fra foreningen til gamle bygningers bevarelse, ser. 8, vol. 2, 1958.

6. Cf. p. 24 ff.

7. Cf. p. 70.

8. The same price-series has been used as in computing the price-indices, cf. p. 63 ff.

In Chapter 8, the yearly wages in certain occupations are estimated. At the beginning of the 1790s yearly wages were:

|   |  |
|---|--|
| Journeyman-masons                               | 87 <sup>1</sup> / <sub>2</sub> rix-dollars |
| Workmen   |  |
| engaged by the Copenhagen municipal authorities | 50–55 rix-dollars                          |
| Naval seamen                                    | 60 rix-dollars                             |
| Naval carpenters 7th class                      | 82 rix-dollars                             |
| Naval carpenters 1st class                      | 114 rix-dollars                            |

If these yearly wages are viewed in context with yearly rents of 10–30 rix-dollars and the above-stated outlays on food, it can be seen that if families had no other income than the husband's wages, then in years when food prices were high they must have been compelled to resort to cheap calories, i. e. to bread, for a very large part of their food consumption. The same will have applied in any year to families with several children.

## 10. Living standards in Copenhagen evaluated from demographic data

Any use made of demographic data from 18th century Denmark is subject to two inescapable conditions: 1. Censuses of population are available only for the years 1769, 1787 and 1801<sup>1)</sup>. 2. Any count of births and deaths, whether contemporary or present-day, must base itself upon the church registers, which means that in reality it is a computation of baptisms and burials.

As stated on page 14 ff there is uncertainty as to the number of Copenhagen's inhabitants in the 18th century. The margin of error originating from the size of population enters into the calculation of *per capita* consumption in Chapter 6. Therefore all calculations into which the size of Copenhagen's population enters are excluded from the present chapter.

### Use of the «proportional mortality indicator» or «p-indicator» in evaluating living standards in Copenhagen 1730–1800

In what follows, the term “proportional mortality indicator” or “p-indicator” is to be understood as meaning the relationship, expressed as a percentage, between the number of deaths at age fifty or over and the total number of deaths. In other words:

$$\text{p-indicator} = \frac{\text{number of deaths at age } \geq 50 \text{ years} \times 100}{\text{total number of deaths}}$$

The theory of p-indicators is developed by S. Swaroop and K. Uemura of the WHO's Statistical Department. The following discussion of the ap-

1. On annual censuses of the population of Copenhagen, however, see p. 16.

plicability of p-indicators to the evaluation of living standards is very largely based on their investigations<sup>2)</sup>).

As was mentioned in the introduction, a committee set up by the UN, the ILO, the UNESCO, the FAO and the WHO in 1954 issued a report on international definitions and methods of measurement of living standards<sup>3)</sup>. This report adduced "Health, including demographic conditions" as living standard indicator no. 1. From this point of departure Swaroop and Uemura have tried to discover what form of statistics is most practicable for comparing living standards in different countries as defined by "Health, including demographic conditions".

Their study begins by assuming *ex cathedra* that the following countries, called Group A, have a high standard of life: Australia, Canada, Denmark, England and Wales, France, New Zealand, Norway, Sweden, Switzerland and the United States; while group B, consisting of Ceylon, Colombia, the Dominican Republic, Egypt, India, Malaya, Mexico, Peru, the Philippines and Thailand, have a low standard of life. Group B of course had to be selected from among those under-developed countries with fairly comprehensive population statistics. The aim of the study was to discover what form or combination of forms of population statistics would discriminate most clearly between the two groups<sup>4)</sup>. The crude death rate, the birth rate, the infant mortality rate and the life-expectation of persons of a certain age<sup>5)</sup>, etc., were all studied. In addition, formulae were devised in which these factors were incorporated with different weights. However, the p-indicator described above turned out to give a clearer distinction between the A-group and the B-group than any other form or combination of forms of population statistics, inasmuch as the highly developed countries had high p-indicator values while the less developed countries had low values.

If it is desired to utilise the p-indicator for assessing how the standard of living evolved over a period of time, it is necessary to understand what makes a p-indicator rise and what makes it fall, and what kind of defects and errors in the statistical data employed will affect the result.

A society's p-indicator at any given point in time is determined by its

2. S. Swaroop and K. Uemura: "Proportional mortality of 50 years and above". Bulletin of the World Health Organisation 17, 1957, pp. 439-481.
3. Report on international definition and measurement of standards and levels of living. UN sales number 1954. IV. 5.
4. The statistical technique used is described in Bulletin of the WHO 17, 1957, p. 474.
5. E. g., expectation of life at age 1.

age-distribution and by the death rates prevailing in the various age-groups. That is to say, a p-indicator expresses something about both the year for which it is calculated and the preceding period. It must be noted as well, however, that the same consideration applies for example to the birth rate and the crude death rate, which are also affected by the age-structure of the population.

Closer study of what the changes in an accurate p-indicator may signify will be delayed until the p-indicator computed for the parish of Helligånd, Copenhagen, in 1730–1800 is examined, though the extent to which errors in the statistical base-data used may produce an inaccurate p-indicator can be looked at here.

Three forms of error in statistics of the age-distribution of deceased persons will produce errors in the calculation of a p-indicator.

1. Ages of deceased persons incorrectly stated.
2. Inconsistency between different age-groups in the registration of deaths.
3. Ages of some deceased persons not stated.

Regarding No. 1: In an undeveloped society the correct age of a deceased person will often not be known, and a certain number of those under 50 will therefore be reported as being aged 50 or over, and vice versa. If the p-indicator is being computed for a sufficiently large population, these errors will cancel one another out, except when there is some special reason for the ages of the deceased being reported lower or higher than they actually were. 50 years seems to be an excellent age-boundary for dividing deceased persons into two groups, since there is no particular social prestige bound up with being 5–10 years older or younger than 50 years. If age 70 had been chosen as the boundary, for example, it could be assumed, that the number of those aged less than 70 reported as 70 or over would exceed the number aged 70 or over reported as less than 70.

Regarding No. 2: Inconsistency between age-groups in the registration of deaths normally arises in a primitive society because the under-registration of child deaths exceeds that of adult deaths.

In 18th century Denmark the opposite seems to have happened. It may be presumed that very nearly 100 % of deceased adults were buried by the church, their deaths thereby being registered. But the number of children buried by the church seems to have exceeded the number deceased in consequence of numerous stillborn infants being buried under church auspices.



If the p-indicator is computed from a count in the church registers themselves, all cases in which it is directly stated that the child was stillborn can be excluded. However, whenever an infant is buried without its name or age being recorded there will be doubt, for in such cases the entry in the church register can relate to the burial of either a stillborn or a live-born child. In the computations below of the p-indicator for Helligånd parish in 1730–1800, such doubtful cases are assigned to the live-born category. It would not in fact have made any vital difference if these doubtful cases had all been counted as stillbirths instead. In respect of the Helligånd parish p-indicator calculated for five-year periods, the question assumes its largest dimensions in 1775–79, when the assigning of all doubtful cases as liveborn gives a p-indicator of 33.15, while assigning them as stillborn gives 33.38. The disparity between the two results is thus only 0.7 %.

If instead of the church registers recourse is had to the reports of the ages of deceased persons that were kept from 1765 onwards for every *herred* <sup>6)</sup> in the diocese of Ribe and from 1775 for every diocese in Denmark, a considerably larger error in the resultant p-indicator must be accepted. These reports were produced by the number of deceased for the parish in each ten-year age-group being entered by the priest on a schedule circulated by the dean among all the priests of the *herred*. The completed schedule for all the *herreder* was then submitted by the dean to the bishop, in whose office a schedule was constructed with figures for every *herred* and a summary for the whole diocese. This schedule was submitted to *Kommercekollegiet* (the Board of Trade) <sup>7)</sup>. A calculation for Århus diocese, Jutland, carried out by Henry F. Holm <sup>8)</sup> with the aid of the 1787 and 1801 population censuses and the reports of “births (i. e., baptisms) and “deaths’ (i. e. burials) for the intervening period, discloses, when compared with other material in the same work <sup>9)</sup>, that the numbers buried unbaptised <sup>10)</sup> in the diocese of Århus in 1787–1801 constituted on average 9.3 % of all burials.

With this average figure in mind, it could be not unreasonably presumed, that *that proportion* of unbaptised buried which consisted of stillborn infants constituted between 0 % and 15 % of the buried in

6. A *herred* is an administrative division approximating to the English hundred.

7. Source as for Appendix 5.17.

8. Aksel Lassen: *Fald og Fremgang* 1965, p. 415 f.

9. Aksel Lassen: *Op. cit.*, p. 462 ff.

10. Henry F. Holm uses the incorrect term “stillborn” to describe all unbaptised burials.

every Danish diocese in every year between 1765 and 1800, the period for which computations have been made in the present study. If in computing the p-indicators from the reports, the stated margin of error of 15 % is applied, then the true p-indicator must lie between the value obtained by using the figures from the reports and 117.6 % of that value <sup>11</sup>). This means, for example, that if a computation based on the bishops' reports gives a figure of  $p = 30.00$ , then the true p-indicator must lie between 30.00 and 35.30.

Regarding No. 3: The margin of error arising from the lack of information about ages of some deceased is best illustrated by an example.

In a certain geographical locality 1,000 deaths occurred in the period of computation. Of these, 300 were reported to be aged 50 or over and 600 were under 50 years of age. The ages of the remaining 100 were unknown.

If the group of unknown ages is ignored, then:

$$\text{p-indicator} = \frac{300 \times 100}{900} = 33.33$$

If it is assumed that all the 100 whose ages were unknown were in fact aged 50 or over, then:

$$\text{p-indicator} = \frac{400 \times 100}{1,000} = 40.00$$

11. This is shown by the following calculations:

Let  $a$  = the number of all burials according to the report and  $b$  = the number of burials of persons aged over 50.

Then where the burials include no stillborn infants

$$p_1 = \frac{b \cdot 100}{a}$$

And where the burials include 15 % of stillborn infants

$$p_2 = \frac{b \cdot 100}{a - 0.15a}$$

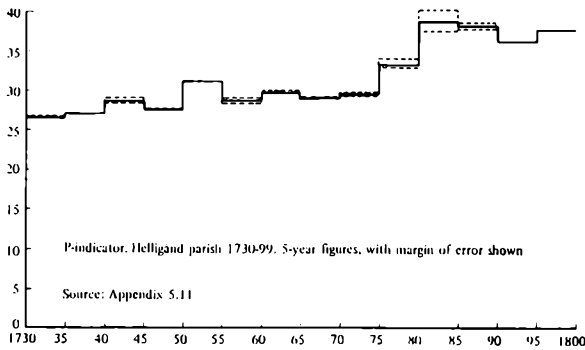
If  $p_2 = p_1 + x \cdot p_1$

$$\text{Then } \frac{b \cdot 100}{a - 0.15a} = \frac{b \cdot 100}{a} + x \cdot \frac{b \cdot 100}{a}$$

$$x = \frac{1}{1 - 0.15} - 1 = 0.176 \text{ or}$$

$$p_2 = p_1 + \frac{17.6}{100} \cdot p_1 = \frac{117.6}{100} \cdot p_1$$

Fig. 23



and if it is assumed that they were all under age 50 then:

$$\text{p-indicator} = \frac{300 \times 100}{1,000} = 30.00$$

The true p-indicator must therefore be as follows:

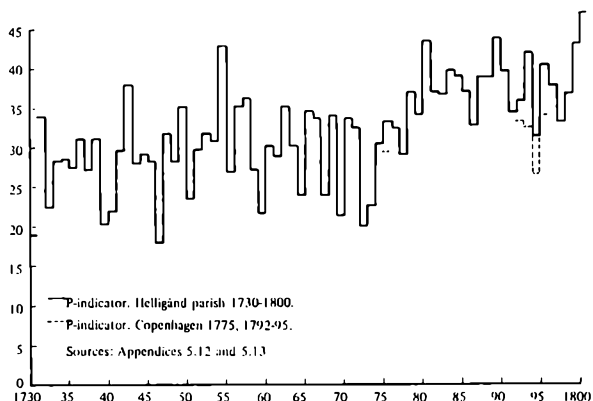
$$30.00 \leq \text{p-indicator} \leq 40.00$$

This is a calculation of the maximum possible error. If it could be assumed that the age-distribution of the group whose ages were not known was the same as that of the other deceased, then the unknown-age group could be ignored without further ado. Examination of the church registers of Helligånd parish, however, discloses that the unknown-age group contained a disproportionately high number of adults. This the reason for making the calculation above.

Fig. 23 shows the p-indicator for Helligånd parish computed for 5-year periods. The dotted lines show the maximum margin of error arising from the possible inclusion of stillborn infants and from ages not being reported. The figures for the diagram are to be found in Appendix 5.11. The p-indicator for Helligånd parish computed for 5-year periods reveals a shallow rise from 1730–34 to 1770–74. Then there is a steep rise from 1770–74 to 1780–84, followed by a gentle decline from 1780–84 to 1795–99. The diagram shows the changes occurring during the period to be considerably larger than the margin of error.

Fig. 24 shows the p-indicator for Helligånd parish computed for individual years. The figures for this are to be found in Appendix 5.12. It

Fig. 24



is evident from the diagram that there could be very large variations between the individual years, and that the picture of a steady trend as suggested by the 5-year figures is somewhat misleading. The possibility cannot be excluded, however, that the broadness of these fluctuations owes something to the slenderness of the material.

Appendix 5.12 shows not only the p-indicator but also the absolute number of deaths in Helligånd parish. It is evident that if in any year this absolute figure of deaths was higher than in the preceding and succeeding years, then the year with the high number of deaths would normally also have a lower p-indicator, as for instance in 1750. Of course the absolute number of deaths does not tell us anything about the pattern of mortality in Helligånd parish during the period. Admittedly the boundaries of the parish did not change in 1730–1800, but the growth of Copenhagen's population unaccompanied by any growth in area must have brought an increased density of population in some parts of the city at least. Moreover, the absolute mortality figures for Helligånd parish are affected by the fact that in 1728 and 1795 the parish was fairly heavily hit by large fires, with temporary falls in the numbers of inhabitants as a result. Unless the fires and the consequent temporary movement away from the parish brought an alteration of the parish's social structure, the p-indicator would not be affected by changes in the number of inhabitants. It can be seen too that low absolute mortality in 1796–98 was not accompanied by a high p-indicator value but by a low one.

As well as the p-indicator for Helligånd parish, fig. 24 shows the p-indicator for all of Copenhagen in 1775 and 1792–95, the only years of the 18th century for which the age-distribution of deceased persons is known for Copenhagen as a whole. It will be seen that the p-indicator values for Helligånd parish are higher than those for Copenhagen as a whole. However, the difference is partly attributable to the p-indicator values for Copenhagen as a whole being computed from the episcopal report, i. e. to the curve having been drawn at the lower limit of a 17.6 % margin of error (cf. p. 107).

Copenhagen was divided into parishes determined by geographical and linguistic boundaries, special military parishes being demarcated as well. Thus Helligånd, for instance, was a civilian Danish-speaking parish, St. Petri was a civilian German-speaking parish, and Holmen parish mostly contained naval personnel. Since the military element constituted a large proportion of 18th century Copenhagen's population, and since the living standard of the many sailors and soldiers is generally presumed to have been substantially below the average<sup>12</sup>), it is not surprising that the p-indicator for Helligånd parish is higher than that for Copenhagen as a whole. A comparison made with the parish of Holmen for the years 1785–87 produces the following<sup>13</sup>):

Helligånd parish p-indicator value = 36.11

Holmen parish p-indicator value = 26.17

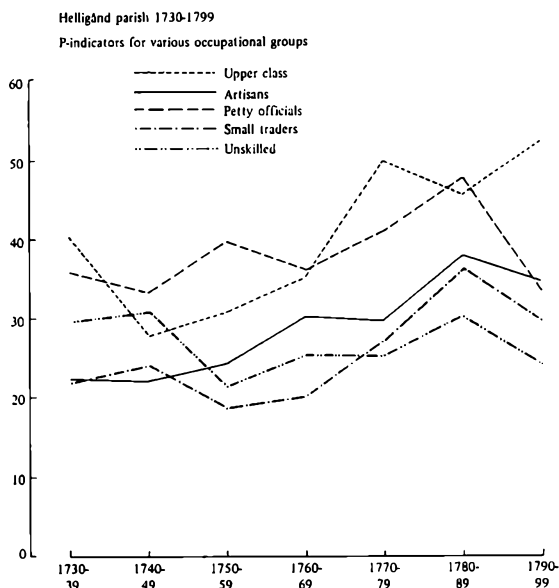
It is important to bear in mind when evaluating these figures that Holmen parish also contained discharged sailors etc., but that there was probably some emigration of old people from the parish.

While the level of the p-indicator for Helligånd parish thus seems to have been higher than that for Copenhagen as a whole, it is probable that its trend was similar to that in the other civil parishes of Copenhagen, since Helligånd contained representatives of all the important civilian social classes of 18th century Copenhagen and since the trend of the p-indicator for those classes was essentially the same. The social structure of Helligånd parish is revealed by the mortality figures for the various classes shown in Appendix 5.15, and these figures can be compared with the situation in Copenhagen as a whole as described in Chapter 2. Fig. 25 shows the p-indicator for various social classes in Hel-

12. Cf. e. g. P. F. Rist: *Fra Støvletiden*, 1884.

13. Basis of calculation: LA Kbh, Helligånds sogns kirkebog og Holmens sogns kirkebog.

Fig. 25



Source: Appendix 5.15

ligånd parish, the corresponding figures being found in Appendix 5.15. It may be remarked that the basis of computation for the “upper class” category is rather slender, and this is presumed to be the explanation of the fact that this category does not manifest the same trend as the other classes in the years subsequent to 1770–79. It will be seen that in other respects the five curves display a fairly uniform pattern.

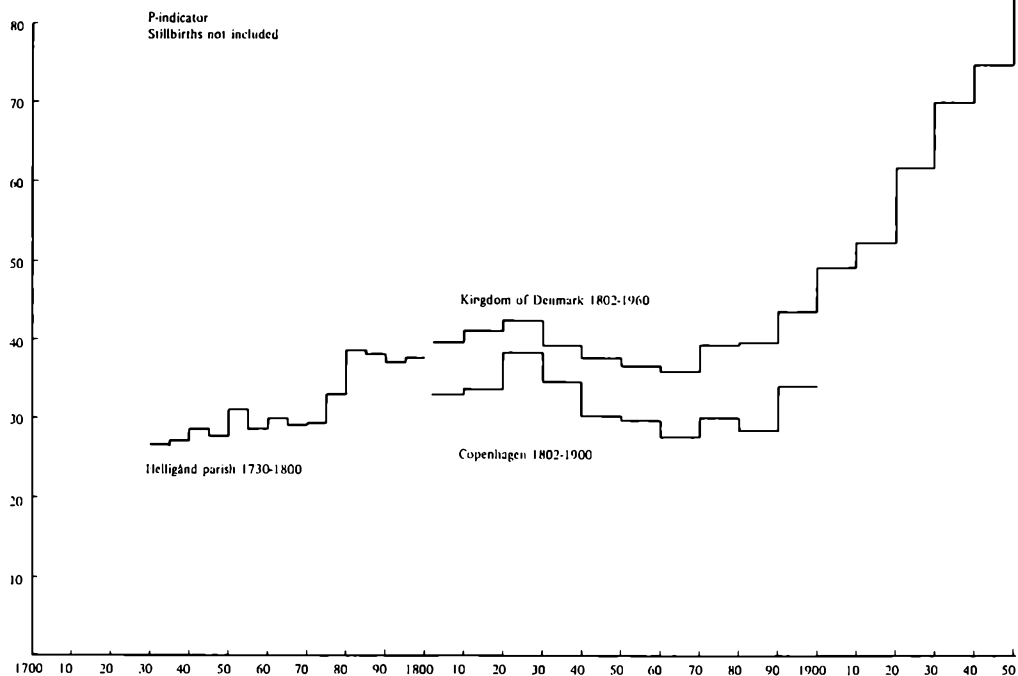
Thus, there appear to be sound reasons for supposing that the *trend* of the Helligånd parish p-indicator is representative of all civilian Copenhagen parishes.

The next problem is how to explain this trend; that is to say in broad terms, how to explain the rise from the mid-1770s to the beginning of the 1780s.

As has already been noted, a p-indicator is determined partly by the age-structure of the population and partly by the death rates within the various age-groups. A rising p-indicator can therefore be ascribed to one or more of the following causes:

1. A rising death rate in the 50-plus age-group.

Fig. 26



Source: Appendix 5.14

2. The passage of a “big year” or a number of “big years” from the under-50 age-group to the 50-plus group.

3. A declining birth rate, which, if infant mortality is unchanged, will give fewer child deaths.

4. A declining death rate in the under-50 group, e. g. declining infant mortality.

5. Declining death rates both above and below the age of 50.

According to the definition of the standard of living set forth in the introduction to this work, causes 4 and 5 constitute a form of rising living standards, while causes 1–3 do not. Therefore it is essential to decide which of these possible causes is responsible for the rise in the Helligånd parish p-indicator from the mid-1770s to the beginning of the 1780s.

Possibility 1: A rising death rate in the 50-plus age-group. A glance

at fig. 26 shows not only that the p-indicator for Helligånd parish maintains a high level to the end of the century, but also that the p-indicator for Copenhagen is rising from 1802 to the 1820s. As stated above, Helligånd parish and Copenhagen are considered to manifest similar trends but different levels. It is therefore probable that the p-indicator for Helligånd parish did not decline appreciably until after the 1820s, i. e. that the high p-indicator level that began around 1780 maintained itself for 50–60 years. The higher level therefore cannot be attributed to a higher death rate in the 50-plus age-group, for this can give a higher p-indicator only in the shorter term.

Possibility 2: The passage of a “big year” or group of “big years” from the under-50 group to the 50-plus group.

This may have happened to some extent, but it cannot be invoked to explain why the p-indicator remained at high level as long as it did.

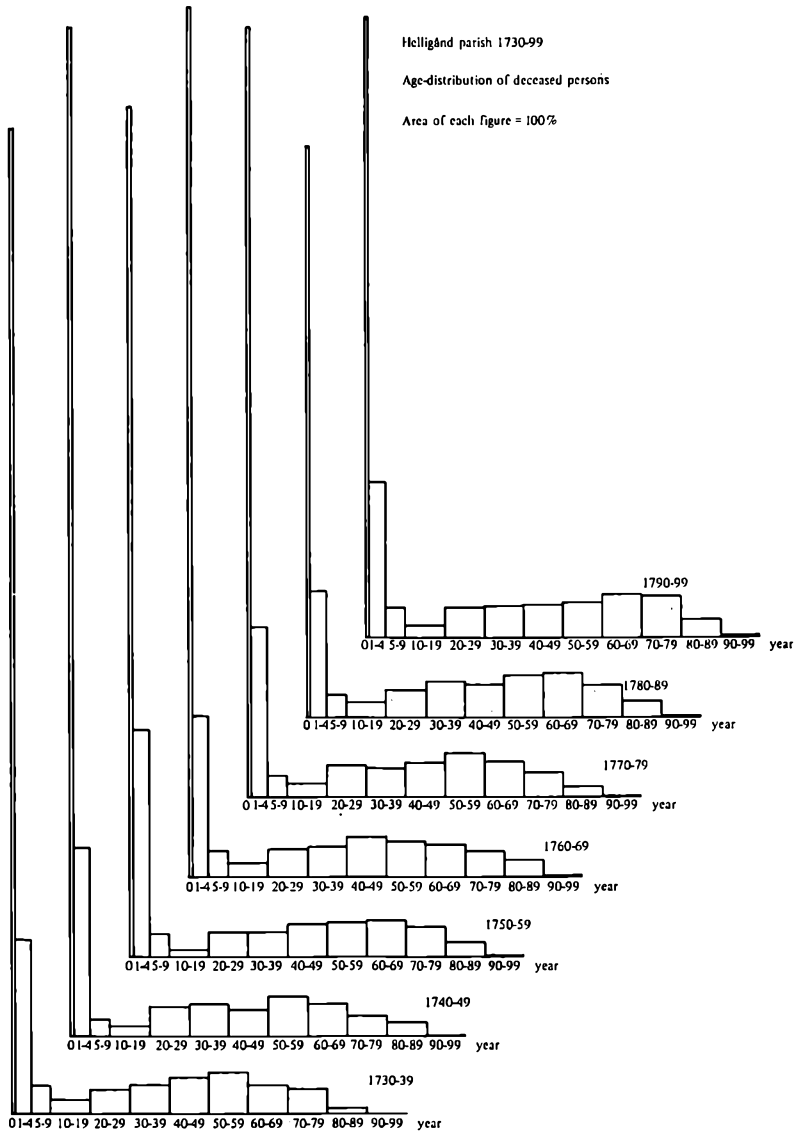
Possibility 3: Falling birth rate.

Baptisms in Helligånd parish in 1780–89 were 7 % lower than in 1770–79. A calculation in which the number of child-burials in the 0–9 age-group is increased by 7 % gives a rise in the p-indicator from 1770–79 to 1780–89 of 92 % of the level actually ascertained. Thus the rise in the p-indicator from the 1770s to the 1780s can be explained only to a limited extent in terms of declining births. On the other hand when the number of baptisms falls by 7 % from 1770–79 to 1780–89, the number of burials at age one year or under declines by 25.5 %, and the number buried at age 1–4 years by 24 %. Thus there was a fall in infant mortality.

In regard to possibilities 4 and 5, it is evident that the rise in the p-indicator from the 1770s to the 1780s was caused not only by a fall in the percentage of children but also by a rise in the average age of deceased adults. This may be observed from fig. 27, the quantitative data for which are to be found in Appendix 5.2. Fig. 27 shows how large a percentage of the deceased was accounted for by the various age-groups. It is apparent that from 1770–79 to 1780–89 the percentage comprised by deaths under one year old decreased. If the rising p-indicator from 1770–79 to 1780–89 is attributable only to this, then the various groups of deceased adults would be increased in the same mutual proportion. The diagram shows, however, that between 1770–79 and 1780–89 the mortality peak for the category 10 years of age and over shifted from the 50–59 to the 60–69 age-group. In 1750–59 also the mortality peak for the 10 year-plus category was at 60–69 years, but to



Fig. 27



Source: Appendix 5.2

offset this then there was a higher level of infant mortality. The diagram further shows that the proportion aged 50 and over among the 10 year-plus deaths increased from 1770–79 to 1780–89.

This suggests that the rise in the Helligånd parish p-indicator between the mid-1770s and the beginning of the 1780s was caused partly by declining infant mortality but partly also by the fact that the average age of deceased adults was higher. This can be ascribed either to a higher average age of persons surviving beyond childhood or to a number of “big years” crossing the age 50 line or to a combination of these two factors.

### Comparability between the p-indicator level of the social classes

Study of fig. 25 and of Appendix 5.15 discloses that for most of the period the p-indicator for the “upper class” is higher than that for artisans, small tradesmen and the unskilled classes. However, there are difficulties about comparing the p-indicator levels of different social classes. For example, a class such as that comprised by inmates of charitable institutions will contain a large number of old people and will therefore present a high p-indicator value unrelated to their standard of life. Some such factor may well be responsible for the very high p-indicator value manifested by the class of “petty officials”—i. e., watchmen and the like (cf. fig. 25). It seems probable that this class was largely recruited from people above a certain age.

P-indicators for various social classes in Holmen parish have also been calculated for 1785–87. The results are:

|                                 |       |
|---------------------------------|-------|
| Naval seamen and seamen-gunners | 19.87 |
| Naval artificers                | 21.77 |
| Other military personnel        | 20.69 |
| Civilians                       | 35.65 |

Thus, the p-indicator for seamen and seamen-gunners was almost as high as that for Holmen artisans, even though the remuneration of artisans was much higher<sup>14</sup>). However, a calculation of the number of deceased females aged 20 and over per 100 deceased males of 20 and over produces the following figures:

14. RA Søetaten, Bogholderkontoret: Betalingsreglementer 1784–96.

|                                 |                                  |
|---------------------------------|----------------------------------|
| Naval seamen and seamen-gunners | 62.88 females per hundred males. |
| Naval artificers                | 94.44 females per hundred males. |

This suggests a considerably higher incidence of marriage, and therefore relatively more children, among naval artificers than among seamen and seamen-gunners. It also emerges that children under one year of age comprised 22.0 % of the deceased in the seaman and seamen-gunner class, but 26.9 % in the artificer class. From this it is clear that the p-indicator for naval artificers is not immediately comparable with the p-indicator for seamen and seamen-gunners. The differing incidence of marriage can be offset by comparing instead the p-indicators for the female members of the two classes. This gives:

|   |                    |
|---|--------------------|
| Class of seamen and seamen-gunners, females | p-indicator = 44.5 |
| Class of naval artificers, females          | p-indicator = 56.5 |

The disparity between the p-indicators here is considerably wider, both relatively and absolutely, than that revealed by a calculation including both males and females.

The fact that the p-indicator for both classes is higher for females than for males and females is of no special significance. This is normal among all populations.

### Other p-indicators

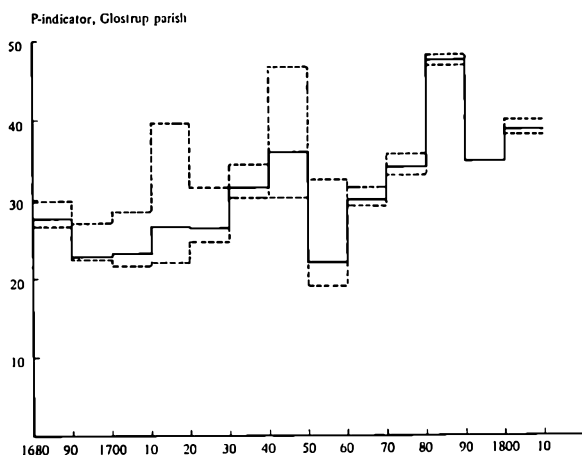
To supplement the Helligånd parish p-indicator, further p-indicators have been computed for the parish of Glostrup in 1680–1809 <sup>15)</sup> and for the four Jutland dioceses in 1765–1800 <sup>16)</sup>.

The Glostrup parish results can be seen in appendix 5.16 and fig. 28. The data for computation are rather exiguous compared with Helligånd parish and the p-indicator values have therefore been computed in ten-year periods. In this case the margin of error arising from possible stillbirths can be disregarded, since there are practically no such instances, while the margin of error arising from the ages of deceased persons not being stated is very large up to 1759. The p-indicator seems to have risen between the 1690s and the 1740s, although there may have been a break in the pattern in the period 1710–19. From 1740–49 there was a fall to 1750–59 or possibly 1760–69. The p-indicator then moved

15. A rural parish in the vicinity of Copenhagen.

16. These four dioceses together form the whole province of Jutland.

Fig. 28



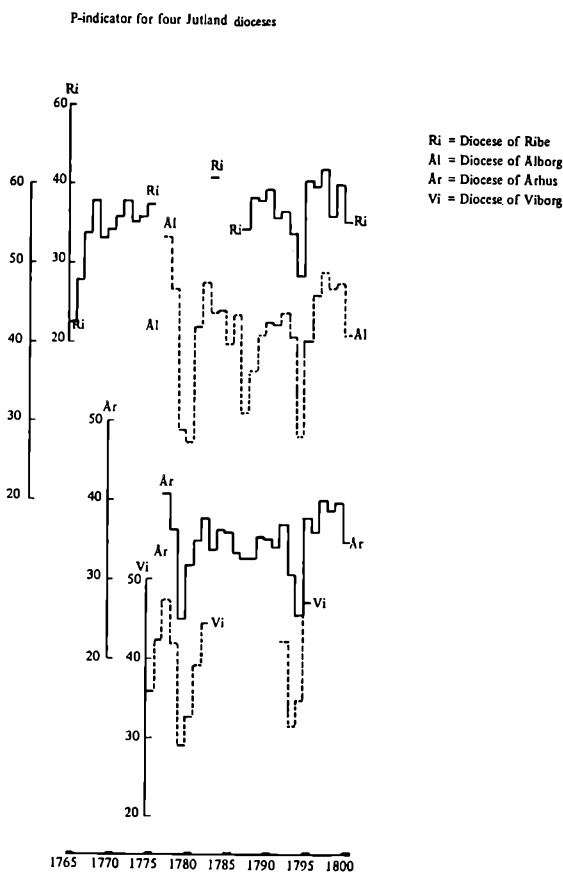
The margin of error is shown by the dotted line, cf. Appendix 5.20

Source: Appendix 5.16

upwards until 1780–89, following which a decline in 1790–99 brought it back to about the level of 1770–79. These fluctuations are considerably wider than in the case of Helligånd parish, but the data on which the Glostrup calculations are based are much sparser. However, comparison of figs. 23 and 28 shows, that the trends in the two parishes do not differ fundamentally.

The p-indicators of the four Jutland dioceses for 1765–1800 will be found in appendix 5.17 and in fig. 29. The data on which the calculations are based consist of the diocesan reports of the age-distribution of deceased persons. These begin in 1765 for the diocese of Ribe but only in 1775 for the other dioceses. The material is not complete despite the fact that data from different sets of records have been brought together (cf. Appendix 5.17). Because fig. 29 includes a proportion of stillbirths unfortunately not accurately known, the figures given in this appendix must be looked upon as the lower limits of a margin of error suggested on p. 107 to be about 17 %. The similarities between the fluctuations of the curves for the four dioceses are seen to be by no means inconsiderable, cf. e. g. 1779 or 1794. This can only mean that common causes

Fig. 29



Source: Appendix 5.17

must be operating in some degree to produce these variations in the four curves. It is also evident that even though the p-indicators plotted in the diagram represent the lower limit of the margin of error, this lower limit is higher for all four dioceses than the p-indicator for Helligånd parish.

### Causes of death in Helligånd parish 1730–1799

The standard of life in Helligånd parish can be illustrated not only by means of the p-indicator but also by using statistics of causes of

death. The official statistics of causes of death in 18th century Copenhagen were compiled in the same way as those of births and deaths, i. e. through the medium of reports from the parishes to the police, who published an annual summary. The printed schedules, not many of which survive<sup>17</sup>), only show the numbers dying of the different ailments but not the age-groups in which deaths occurred. However, it has been possible to investigate this in the case of Helligånd parish.

Appendices 5.31 and 5.32 show the relationship between cause of death and age at death in Helligånd parish in 1730–39 and 1790–99 respectively. It will be seen that “internal causes” (*slag*) was the term generally used to denote the death of a baby but that it could be used of adults as well. Smallpox was far more important in the 1–4 year age-group than among babies. The term fever probably covers a variety of infections. Such cases evidently occurred most commonly in the 20–29 age-group both in 1730–39 and 1790–99. It is a natural presumption that death from fever will have been a frequent occurrence among children and young immigrants who had still not developed immunity against the infections of the city. It is doubtful whether there is any real difference between the causes of deaths recorded as “chest ailments” (*brystsye*) and “wasting sickness” or “tuberculosis” (*tærende syge eller svindsot*). A large proportion were probably tubercular cases, irrespective of the description. It will also be noted that the two groups of causes produced the largest number of deaths in the 40–59 year age-group in 1730–39 and in the 50–69 group in 1790–99.

Appendix 5.33 shows causes of death in Helligånd parish in 1730–99 expressed as a percentage of total deaths. In evaluating these figures it should be observed that the “cause unstated” group is important in 1790–94 and 1795–99. No substantial change occurs in the causes of death during the period. The term “maladies of the teeth” goes out of vogue in the middle of the period, but this is offset by a rise in the number of children recorded as dying from internal causes, the two groups probably being largely complementary. Deaths from smallpox, after reaching a high point in 1750–59 are seen to decline only marginally afterwards, except in 1770–74. The decreasing number of deaths

17. The Royal Library has only 1767 and 1783–86.

The schedules for 1760–84, however, are published in *Statistisch-Tabellarische Uebersicht der Volks-Menge in den königlichen Dänischen Staaten. Beylage zu dem 2. Theile der Materialien zur Dänischen Statistik, Flensburg und Leipzig 1787, Tafel XXVI.*

from chest ailments must be viewed in context with the rise in the figure for deaths from tuberculosis and wasting sicknesses.

Thus, Appendix 5.33 reveals on the whole no great variations in the proportionate importance of the various causes of death, which implies that changes in the p-indicators must be explained in terms of changes in the powers of resistance of the population or changes in its age-structure.

# 11. Conclusion

In this work, three methods have been employed in an attempt to shed light on the evolution of living standards in Copenhagen in 1730–1800.

1. The calorific value per person per day of the consumption registered in the consumption tax ledgers has been computed. The margin of error in the computations is fairly considerable, but it is less in the shape of the curve than in its height.

2. A price index has been computed and compared with data about wages. The margin of error on the index figure itself is not remarkably wide, since the budget can be modified substantially without the shape of the curve being appreciably altered. It is wages that are responsible for the margin of error in this section of the work. There is a considerable element of uncertainty about the level of master's emolument, on the question which thread was dominant when the wage-pattern discovered was not uniform, and in regard to level of unemployment.

3. The p-indicator has been computed for the parish of Helligånd, Copenhagen. While there is very little margin of error in the computed p-indicator itself, there is a considerable one in the interpretation of the changes, since the p-indicator expresses something about both the period for which it is calculated and the preceding period.

Thus, there seems to be no ground for favouring any one of these three methods at the expense of the others. However, there are some differences between them, inasmuch as the calorie-curve and the surveys of real wages make it possible to discern which were the years of really serious crisis, while the data in the demographic section are not really abundant enough to enable trends to be viewed year by year but only in five-year periods. The three methods taken together, however, do bring out certain tendencies in the evolution of living standards in Copenhagen in the era under review, and the three methods produce results that are not incompatible.



While an isolated survey of the wages of building artisans in relation to the trend of prices will produce results suggesting a sharp fall in the standard of living during the period, such a conclusion can be sustained to any extent only for certain workmen and for others not at all. The figures of imports per head suggest a declining standard of living up to about 1750 and a rising one thereafter. It is thus a problem how this could coincide with falling real wages for building artisans. The answer is probably that they were so relatively well paid at the beginning of the period that their real wages could fall considerably without bringing them to the verge of starvation. It must be borne in mind too that building artisans constituted only a small proportion of the population for whom the average calorie intake has been computed. However, it cannot be denied that the years of crisis, denoted by peaks on the price-index and bread-consumption curves but troughs on the animal products consumption curve, must have placed both journeymen-craftsmen and labourers, together with their families, in a parlous situation. In broad terms the fluctuations of the price-index and calorie curves show that the standard of living in Copenhagen in 1730–1800 varied very substantially from year to year.

# Danish money, weights and measures, 1730-1800

## Money

In the period 1730–1800, the units of account of the Danish coinage were 1 *rigsdaler* (rix-dollar) = 6 *mark* = 96 *skilling*. This system of account was applied to two different coinage systems: the specie system and the *kurant* (current) system. The specie system was based on a monetary unit of 1 *skilling* = 263 mg fine silver and remained unaltered throughout the period. Only a small amount of money was coined on the specie system. The *kurant* system was the everyday coinage of the period, and it is in this coinage that all prices and wages in this enquiry are expressed. At the beginning of the period, the *kurant* system consisted of coins on a standard of 215 mg fine silver per *skilling*. From 1737 onwards, *kurant* notes were issued as well, the convertibility of which with silver was suspended in 1745–47 and finally abolished in 1757. After 1788, practically no further silver coin was struck on the *kurant* system. The exchange value of the *skilling* therefore did not remain constant in terms of silver <sup>1</sup>). Tables of the silver value of 1 *skilling kurant* in the period here in question are already published <sup>2</sup>).

## Weights and measures

A comprehensive list of Danish units of weight and measure in 1660–1800 has already been published in English in vol. I of *A History of Prices and Wages in Denmark* <sup>3</sup>). The reader is referred to the latter for a more detailed explanation of the individual terms. The list below is no more than a brief explanation of the terms occurring in the present study and is

1. Cf. Friis and Glamann: *A History of Prices and Wages in Denmark 1660–1800*, vol. I, 1958, p. 3 ff, and Knud Erik Svendsen in Knud Erik Svendsen, Svend Aage Hansen, Erling Olsen and Erik Hoffmeyer: *Dansk pengehistorie*, vol. I, 1968, p. 26 ff.
2. Friis and Glamann: *Op. cit.* p. 111 ff.
3. Friis and Glamann: *Op. cit.*, p. 114 ff.

based on the list in the work abovementioned. In cases where a term has more than one meaning, only the one used in the present study is given.

The terms *læs* and *tønde* have usually been rendered in the English text as “wagon-load” or “load” and “barrel” respectively. In other cases the Danish word has been retained for the sake of accuracy.

|             |   |
|-------------|---|
| alen        | 1 alen (ell) = 62.814 cm.   |
| balle       | Unit for skim-sugar, sugar-sweepings and molasses.<br>1 balle (bale) = 102 potter = 98.532 litres.  |
| fjerding    | 1 fjerding (quarter or firkin) = $\frac{1}{4}$ tønde, see tønde.  |
| fjerdingkar | 1 fjerdingkar (half peck) = $\frac{1}{32}$ tønde, see tønde.  |
| fod         | 1 fod (foot) = 31.407 cm.   |
| kop         | Unit of butter. Its size is not precisely known, cf. Appendix 2.35.   |
| lispund     | 1 lispund (stone) = 16 pund, see pund.  |
| læs         | 1 læs (wagon-load) was probably not a precise measure. Cf. however appendix 2.96.   |
| lod         | 1 lod = $\frac{1}{32}$ pund, see pund.  |
| otting      | 1 otting (eighth) = $\frac{1}{8}$ tønde, see tønde.   |
| ottingkar   | 1 ottingkar = $\frac{1}{64}$ tønde, see tønde.  |
| pot         | 1 pot (quart) = 0.966 litres.   |
| pund        | 1 pund (pound) = 496 grams.   |
| pægl        | 1 pægl (half pint) = $\frac{1}{4}$ pot, see pot.  |
| skippund    | 1 skippund (three hundredweight) = 20 lispund = 320 pund, see pund.   |
| skok        | 1 skok (three score) = 60.  |
| skålpund    | 1 skålpund (pound) = 1 pound.   |
| skæppe      | 1 skæppe (half bushel) = $\frac{1}{8}$ tønde, see tønde.  |
| snes        | 1 snes (score) = 20.  |
| tomme       | 1 tomme (inch) = $\frac{1}{24}$ alen, see alen.   |
| tønde       | 1 korntønde (grain-barrel) = 144 potter = 139.10 litres. The grain-barrel was used for wheat, rye, barley, oats, malt, groats, peas and fruit.<br>1 øltønde (ale-barrel) = 136 potter = 131.39 litres. The ale-barrel was used for ale and other liquids, and also for butter, tallow, soap, meat, fish and various other merchandise. The barrel in use for provisions was supposed to weigh 16 lispund gross – i. e., 2 lispund tare weight, 14 lispund net. Thus, for certain commodities the barrel was really a unit of weight, not of capacity. |

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# Appendices

# T a b e l l

o v e r

## Saavel Mand- som Qvinde- Kiønnet, udi mit Huus i

Qvarteer No. (de i virkelig Tjeneste ved See- og Land- Etablerne

staaende Under- Officerer, Tambourer, Soldater og Matroser for deres egne Personer undtagen, men deres Hustruer og Børn ibegreben) saaledes som dets Talt, efter hveres Alder befandtes at være den 15de Augusti 1769, nemlig:

| 1. Rubrique.  |                  | 2. Rubrique.                |                  | 3. Rubrique.                 |                  | 4. Rubrique.                 |                  | 5. Rubrique.                 |                  | 6. Rubrique.                 |                  | 7. Rubrique.           |                  |                  |   |   |   |   |   |   |   |   |   |   |   |   |   |        |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |
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| Paa 8 Aar og derover.   |                  | Fra 8 til 16 Aar inclusive. |                  | Fra 16 til 24 Aar inclusive. |                  | Fra 24 til 32 Aar inclusive. |                  | Fra 32 til 40 Aar inclusive. |                  | Fra 40 til 48 Aar inclusive. |                  | Fra 48 Aar og derover. |                  |                  |   |   |   |   |   |   |   |   |   |   |   |   |   |        |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Mand-<br>folk.  | Kvæn-<br>timmer. | Mand-<br>folk.              | Kvæn-<br>timmer. | Mand-<br>folk.               | Kvæn-<br>timmer. | Mand-<br>folk.               | Kvæn-<br>timmer. | Mand-<br>folk.               | Kvæn-<br>timmer. | Mand-<br>folk.               | Kvæn-<br>timmer. | Mand-<br>folk.         | Kvæn-<br>timmer. |                  |   |   |   |   |   |   |   |   |   |   |   |   |   |        |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |
|   |                  |                             |                  |                              |                  |                              |                  |                              |                  |                              |                  |                        |                  |                  |   |   |   |   |   |   |   |   |   |   |   |   |   |        |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |
| <b>Af foranførte Mandfolk og Kvæntimmer, henhører til</b>   |                  |                             |                  |                              |                  |                              |                  |                              |                  |                              |                  | Mand-<br>folk.         | Kvæn-<br>timmer. |                  |   |   |   |   |   |   |   |   |   |   |   |   |   |        |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |
| efterfølgende Nummere, nemlig:  |                  |                             |                  |                              |                  |                              |                  |                              |                  |                              |                  |                        |                  |                  |   |   |   |   |   |   |   |   |   |   |   |   |   |        |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 1) Kongs- Personer, Justits- og alle andre Kongelige Betiente med deres Hustruer og hos sig havende Børn  |                  |                             |                  |                              |                  |                              |                  |                              |                  |                              |                  |                        |                  |                  |   |   |   |   |   |   |   |   |   |   |   |   |   |        |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 2) Geistligheden, samt Kirke- og Skole- Betiente, saa og Studentere med deres Hustruer og hos sig havende Børn  |                  |                             |                  |                              |                  |                              |                  |                              |                  |                              |                  |                        |                  |                  |   |   |   |   |   |   |   |   |   |   |   |   |   |        |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 3) (a) Søfarende og Fiskere, iberegnet dem, der med Tilladelse ere i Farten eller paa Rejser, med deres Hustruer  |                  |                             |                  |                              |                  |                              |                  |                              |                  |                              |                  |                        |                  |                  |   |   |   |   |   |   |   |   |   |   |   |   |   |        |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |
| og (b) Deres hos sig havende Børn   |                  |                             |                  |                              |                  |                              |                  |                              |                  |                              |                  |                        |                  |                  |   |   |   |   |   |   |   |   |   |   |   |   |   |        |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 4) Fabriqueurer og Haandværker, samt deres Soenne og Børn- Drengene med deres Hustruer og hos sig havende Børn  |                  |                             |                  |                              |                  |                              |                  |                              |                  |                              |                  |                        |                  |                  |   |   |   |   |   |   |   |   |   |   |   |   |   |        |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 5) Andre Borgere og saadanne Indbyggere, som ikke under forestaende 1. 2. 3 og 4 S. ere benævnte med deres Hustruer og hos sig havende Børn   |                  |                             |                  |                              |                  |                              |                  |                              |                  |                              |                  |                        |                  |                  |   |   |   |   |   |   |   |   |   |   |   |   |   |        |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |
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| af 2den Rubrique  | "                | "                           | "                | "                            | "                | "                            | "                | "                            | "                | "                            | "                | "                      | "                |                  |   |   |   |   |   |   |   |   |   |   |   |   |   |        |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |
| " 3die  | "                | "                           | "                | "                            | "                | "                            | "                | "                            | "                | "                            | "                | "                      | "                |                  |   |   |   |   |   |   |   |   |   |   |   |   |   |        |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |
| " 4de   | "                | "                           | "                | "                            | "                | "                            | "                | "                            | "                | "                            | "                | "                      | "                |                  |   |   |   |   |   |   |   |   |   |   |   |   |   |        |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |
| " 5te   | "                | "                           | "                | "                            | "                | "                            | "                | "                            | "                | "                            | "                | "                      | "                |                  |   |   |   |   |   |   |   |   |   |   |   |   |   |        |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |
| " 6te   | "                | "                           | "                | "                            | "                | "                            | "                | "                            | "                | "                            | "                | "                      | "                |                  |   |   |   |   |   |   |   |   |   |   |   |   |   |        |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |
| " 7de   | "                | "                           | "                | "                            | "                | "                            | "                | "                            | "                | "                            | "                | "                      | "                |                  |   |   |   |   |   |   |   |   |   |   |   |   |   |        |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 6) Alle ugifte Personer   |                  |                             |                  |                              |                  |                              |                  |                              |                  |                              |                  |                        |                  |                  |   |   |   |   |   |   |   |   |   |   |   |   |   |        |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 7) Alle Tjenestefolk og Dageløere   |                  |                             |                  |                              |                  |                              |                  |                              |                  |                              |                  |                        |                  |                  |   |   |   |   |   |   |   |   |   |   |   |   |   |        |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 8) De udi Kiøbenhavn hjemmehørende, som med Das paa nogen Tid ere paa uden Rigs Rejser og henhøre til de under 1. 2. 4. 5. 6 og 7 S. benævnte Stænder   |                  |                             |                  |                              |                  |                              |                  |                              |                  |                              |                  |                        |                  |                  |   |   |   |   |   |   |   |   |   |   |   |   |   |        |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |
| og 9) Hospitals- Lemmer samt andre Dansere, Geveklige og Affindige Personer   |                  |                             |                  |                              |                  |                              |                  |                              |                  |                              |                  |                        |                  |                  |   |   |   |   |   |   |   |   |   |   |   |   |   |        |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |



## Appendix 1.02

## Estimate of the population of Copenhagen 1730–1800.

| Year | Column 1<br>Baptisms according to lists of »births« published in the 18th century | Column 2<br>Correction of figures in column 1 | Column 3<br>7-year moving average of the corrected figures of baptisms | Column 4<br>Estimated population, for method cf. p. 17 ff. | Year | Column 1<br>Baptisms according to lists of »births« published in the 18th century | Column 2<br>Correction of figures in column 1 | Column 3<br>7-year moving average of the corrected figures of baptisms | Column 4<br>Estimated population, for method cf. p. 17 ff. |
|------|---|---|--|--|------|---|---|--|--|
| 1727 | 2383  |   |  |  | 1766 | 2643  | + 276   | 2870   | 82800  |
| 1728 | 2346  |   |  |  | 1767 | 2957  |   | 2927   | 84444  |
| 1729 | 2070  |   |  |  | 1768 | 2961  |   | 2886   | 83261  |
| 1730 | 2105  |   | 2267   | 65403  | 1769 | 2909  |   | 2854   | 82338  |
| 1731 | 2187  |   | 2286   | 65951  | 1770 | 2970  |   | 2836   | 81819  |
| 1732 | 2403  |   | 2303   | 66442  | 1771 | 2657  |   | 2831   | 81674  |
| 1733 | 2378  |   | 2368   | 68317  | 1772 | 2604  |   | 2823   | 81444  |
| 1734 | 2516  |   | 2414   | 69643  | 1773 | 2794  |   | 2803   | 80867  |
| 1735 | 2465  |   | 2470   | 71260  | 1774 | 2920  |   | 2791   | 80520  |
| 1736 | 2520  |   | 2521   | 72731  | 1775 | 2909  |   | 2830   | 81646  |
| 1737 | 2432  |   | 2567   | 74057  | 1776 | 2769  |   | 2890   | 83377  |
| 1738 | 2573  |   | 2548   | 73510  | 1777 | 2886  |   | 2924   | 84357  |
| 1739 | 2764  |   | 2538   | 73221  | 1778 | 2928  |   | 2933   | 84617  |
| 1740 | 2702  |   | 2562   | 73912  | 1779 | 3021  |   | 2921   | 84271  |
| 1741 | 2377  |   | 2592   | 74779  | 1780 | 3035  |   | 2959   | 85367  |
| 1742 | 2395  |   | 2623   | 75674  | 1781 | 2985  |   | 3007   | 86752  |
| 1743 | 2692  |   | 2626   | 75760  | 1782 | 2822  |   | 3030   | 87416  |
| 1744 | 2640  |   | 2630   | 75876  | 1783 | 3035  |   | 3061   | 88310  |
| 1745 | 2794  |   | 2678   | 77260  | 1784 | 3224  |   | 3065   | 88425  |
| 1746 | 2781  |   | 2737   | 78962  | 1785 | 3191  |   | 3076   | 88743  |
| 1747 | 2731  |   | 2723   | 78559  | 1786 | 3134  |   | 3127   | 90214  |
| 1748 | 2710  |   | 2796   | 80665  | 1787 | 3065  |   | 3192   | 92089  |
| 1749 | 2813  |   | 2810   | 81069  | 1788 | 3058  |   | 3211   | 92637  |
| 1750 | 2746  | + 28  | 2825   | 81501  | 1789 | 3179  |   | 3258   | 93993  |
| 1751 | 2781  | + 189   | 2884   | 83203  | 1790 | 3492  |   | 3274   | 94455  |
| 1752 | 2592  | + 296   | 2929   | 84502  | 1791 | 3359  |   | 3303   | 95292  |
| 1753 | 2545  | + 344   | 2958   | 85338  | 1792 | 3516  |   | 3302   | 95263  |
| 1754 | 2763  | + 381   | 2990   | 86262  | 1793 | 3248  |   | 3280   | 94628  |
| 1755 | 2669  | + 353   | 2967   | 85598  | 1794 | 3269  |   | 3249   | 93734  |
| 1756 | 2653  | + 367   | 2877   | 83001  | 1795 | 3049  |   | 3248   | 93705  |
| 1757 | 2600  | + [400]                                       | 2859   | 82482  | 1796 | 3027  |   | 3232   | 93243  |
| 1758 | 2407  | + [400]                                       | 2803   | 80867  | 1797 | 3276  |   | 3251   | 93791  |
| 1759 | 2059  | + [200]                                       | 2736   | 78934  | 1798 | 3351  |   | 3239   | 93445  |
| 1760 | 2482  | + 281   | 2673   | 77116  | 1799 | 3407  |   | 3320   | 95782  |
| 1761 | 2470  | + 280   | 2664   | 76856  | 1800 | 3381  |   | 3413   | 98465  |
| 1762 | 2289  | + 268   | 2668   | 76972  | 1801 | 3185  |   | 3452   | 99590  |
| 1763 | 2327  | + 245   | 2762   | 79684  | 1802 | 3615  |   |  |  |
| 1764 | 2645  | + 295   | 2790   | 80492  | 1803 | 3679  |   |  |  |
| 1765 | 2541  | + 291   | 2820   | 81357  | 1804 | 3543  |   |  |  |

Only a small proportion of the original printed lists of baptisms and burials<sup>1)</sup> could be found for the computations, viz.:

1732 UB 1  
1737–39 KB  
1740 UB 1  
1763 RA KommKol Da journalsager K 88 a  
1764–65 RA KommKol Da journalsager L 338  
1766 RA KommKol Da journalsager L 1008  
1767 KB  
1768 RA KommKol Da journalsager M 584  
1769 RA KommKol Da journalsager N 175  
1770 RA KommKol Da journalsager N 473  
1774–75 UB 1  
1782–86 KB

The lists for 1747–56 are reproduced in: Josias Lorck: *Beyträge zu der neuesten Kirchengeschichte, Copenhagen 1757*, p. 645–654.

Total baptisms and burials are reported for the years:

1725–1784 in: *Statistisch-Tabellarische Uebersicht der Volks-Menge in den Königlichen Dänischen Staaten. Beylage zu dem 2. Theile der Materialien zur Dänischen Statistik. Flensburg und Leipzig 1787, Tafel XXIV.*  
1729–1808 in: *Henrich Callisen: Physisk-medizinske Betragtninger over Kiøbenhavn, vol. II, 1809, pp. 651–653.*

Comparison and check-reckoning of totals disclose the following errors in Callisen:

1742 2,365 baptisms instead of 2,395.  
1785 3,591 baptisms instead of 3,191.  
1792 There is an error of 7 either in the figure of baptisms or burials, or in the figure of baptisms minus burials.  
1802 The figure of baptisms is probably 3,615, not 3,262. Since the figures of both baptisms and burials are stated as 3,262, and since baptisms minus burials are stated as 353, there is probably an error in the figure either of baptisms or burials. From a comparison with the figures in *Statistisk Tabelværk 1,1* which are totted up by the church year and not, like these, by the calendar year, it appears most likely that it is the baptisms figure that ought to be corrected.

The contemporary published figures have been corrected, with the aid of the following sources, to allow for missing reports of baptisms at the maternity hospital in 1750–66.

1750–56: Josias Lorck: *Beiträge zu der neuesten Kirchengeschichte, Copenhagen 1757*, p. 655 f.  
1757–59: The figures given are estimated, based on a comparison of the figures for the aggregate number of births at the maternity hospital from its foundation in 1750 to Easter 1759 according to A. Stafeldt: »Kjøbenhavns Fødselsstiftelse, Indbydelsesskrift til Kjøbenhavns Universitets Aarfest til erindring om Kirkens Reformation, 1887«, with Josias Lorck's figures for each of the years 1750–56 and the registers of baptisms compiled by the maternity hospital and Frederiks Hospital, which are extant from 28/10 1759 and 1/4 1758 respectively (LA Kbh).  
1760–66: Registers of baptisms compiled by the maternity hospital and Frederiks Hospital (LA Kbh).

<sup>1)</sup> The lists carry the heading: *Fortegnelse paa dennem, som udi denne Kongl. Residents-Stad Kjøbenhavn fra ... til ... ere copulerede, fødte og døde.* (List of those who, in this Royal Capital City of Copenhagen, from ... to ..., were married, born and died.) The lists, which show the numbers of baptisms and burials in every parish, with totals for Copenhagen as a whole, were issued annually by the Copenhagen police, cf. p. 19.

### Appendix 1.03

Numbers employed in certain occupations in Copenhagen after the fire of 1728, and their places of residence.

| Occupation   | Total number of businesses | Workmen living in with masters | Workmen not living in with masters | Businesses without workmen living in |
|--------------|----------------------------|--------------------------------|------------------------------------|--------------------------------------|
| Carters      | 20                         | 51                             | 5                                  | 2                                    |
| Coachmen     | 36                         | 24                             | 6                                  | 19                                   |
| Joiners      | 91                         | 181                            | 21                                 | 37                                   |
| Carpenters   | 49                         | 24                             | 181                                | 36                                   |
| Masons       | 24                         | 11                             | 153                                | 16                                   |
| Painters     | 34                         | 42                             | 4                                  | 18                                   |
| Mortar-men   | 37                         | 2                              | 0                                  | 37                                   |
| Blacksmiths  | 35                         | 93                             | 4                                  | 11                                   |
| Locksmiths   | 29                         | 83                             | 4                                  | 9                                    |
| Bakers       | 47                         | 140                            | 23                                 | 11                                   |
| Butchers     | 41                         | 63                             | 9                                  | 19                                   |
| Distillers   | 234                        | 17                             | 3                                  | 217                                  |
| Brewers      | 69                         | 115                            | 48                                 | 30                                   |
| Potmen       | 218                        | 18                             | 0                                  | 209                                  |
| Hucksters    | 78                         | 6                              | 0                                  | 75                                   |
| Wigmakers    | 68                         | 61                             | 10                                 | 37                                   |
| Shoemakers   | 169                        | 258                            | 29                                 | 82                                   |
| Cobblers     | 111                        | 0                              | 10                                 | 111                                  |
| Tailors      | 220                        | 244                            | 70                                 | 121                                  |
| Seamstresses | 117                        | 0                              | 0                                  | 117                                  |
| Spinsters    | 178                        | 0                              | 0                                  | 178                                  |
| Washerwomen  | 89                         | 0                              | 0                                  | 89                                   |

Source: G. L. Grove: *Kjøbenhavns Huse og Indvaanere efter branden 1728, Copenhagen 1906*, p. 42\*.

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**Businesses with workmen living in**

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| 1<br>workman | 2<br>workmen | 3<br>workmen | 4<br>workmen | 5 or more<br>workmen |
|--------------|--------------|--------------|--------------|----------------------|
| 3            | 6            | 5            | 2            | 2                    |
| 10           | 7            | 0            | 0            | 0                    |
| 10           | 13           | 13           | 9            | 9                    |
| 7            | 3            | 2            | 0            | 1                    |
| 5            | 3            | 0            | 0            | 0                    |
| 6            | 5            | 1            | 1            | 3                    |
| 0            | 0            | 0            | 0            | 0                    |
| 3            | 4            | 3            | 5            | 9                    |
| 1            | 5            | 5            | 0            | 9                    |
| 1            | 7            | 12           | 4            | 12                   |
| 8            | 4            | 5            | 1            | 4                    |
| 17           | 0            | 0            | 0            | 0                    |
| 10           | 8            | 6            | 8            | 7                    |
| 5            | 1            | 1            | 2            | 0                    |
| 2            | 0            | 0            | 1            | 0                    |
| 16           | 8            | 4            | 1            | 2                    |
| 16           | 26           | 18           | 11           | 16                   |
| 0            | 0            | 0            | 0            | 0                    |
| 40           | 24           | 15           | 6            | 14                   |
| 0            | 0            | 0            | 0            | 0                    |
| 0            | 0            | 0            | 0            | 0                    |
| 0            | 0            | 0            | 0            | 0                    |

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## Appendix 1.04

Table of population of Copenhagen 1787. Males.

| Occupations   | 0-9 years   |             |          |          | 10-19 years |             |           | 20-29 years |             |            | 30-39 years |   |   |
|---|-------------|-------------|----------|----------|-------------|-------------|-----------|-------------|-------------|------------|-------------|---|---|
|   | s           | s           | m        | w        | s           | m           | w         | s           | m           | w          | s           | m | w |
| Ecclesiastical functionaries                          | 95          | 53          | 0        | 0        | 46          | 6           | 2         | 25          | 47          | 5          |             |   |   |
| Army officers   | 74          | 44          | 0        | 0        | 92          | 5           | 1         | 53          | 23          | 0          |             |   |   |
| Soldiers  | 577         | 569         | 2        | 1        | 2061        | 228         | 7         | 971         | 509         | 25         |             |   |   |
| Naval officers  | 32          | 15          | 0        | 0        | 50          | 3           | 0         | 20          | 8           | 0          |             |   |   |
| Seamen  | 1375        | 1172        | 0        | 0        | 963         | 562         | 11        | 305         | 1085        | 50         |             |   |   |
| Civil functionaries                                   | 768         | 358         | 0        | 0        | 360         | 85          | 0         | 217         | 353         | 19         |             |   |   |
| Merchants   | 310         | 143         | 0        | 0        | 73          | 56          | 2         | 68          | 162         | 3          |             |   |   |
| Merchants' labourers and apprentices                  | 53          | 343         | 0        | 0        | 260         | 11          | 0         | 66          | 33          | 0          |             |   |   |
| Artists and manufacturers                             | 315         | 148         | 1        | 0        | 78          | 39          | 0         | 39          | 158         | 4          |             |   |   |
| Artists' and manufacturers' labourers and apprentices | 352         | 381         | 1        | 0        | 605         | 95          | 3         | 193         | 252         | 10         |             |   |   |
| Artisans  | 1121        | 395         | 0        | 0        | 106         | 149         | 4         | 82          | 629         | 19         |             |   |   |
| Artisans' journeymen and apprentices                  | 655         | 1578        | 0        | 0        | 2191        | 220         | 2         | 606         | 496         | 15         |             |   |   |
| Shipmasters, fishermen and seafarers                  | 264         | 151         | 0        | 0        | 149         | 108         | 1         | 51          | 196         | 5          |             |   |   |
| Other occupations                                     | 1006        | 311         | 0        | 0        | 100         | 151         | 1         | 36          | 477         | 11         |             |   |   |
| Servants  | 184         | 245         | 0        | 0        | 1158        | 67          | 1         | 532         | 125         | 7          |             |   |   |
| Day-labourers   | 592         | 153         | 1        | 0        | 157         | 110         | 3         | 124         | 357         | 16         |             |   |   |
| Rentiers  | 49          | 39          | 0        | 0        | 30          | 6           | 0         | 3           | 7           | 1          |             |   |   |
| Pensioners  | 121         | 78          | 0        | 0        | 26          | 1           | 0         | 12          | 12          | 3          |             |   |   |
| Paupers   | 213         | 293         | 0        | 0        | 16          | 0           | 0         | 18          | 12          | 2          |             |   |   |
| Others  | 282         | 250         | 1        | 0        | 446         | 44          | 1         | 116         | 113         | 6          |             |   |   |
| <b>Total</b>  | <b>8438</b> | <b>6719</b> | <b>6</b> | <b>1</b> | <b>8967</b> | <b>1946</b> | <b>39</b> | <b>3537</b> | <b>5054</b> | <b>201</b> |             |   |   |

s = single m = married w = widowed

Source: Danmarks Statistik: Folketællingen 1787.

| 40-49 years |      |     | 50-59 years |      |     | 60-69 years |      |     | 70-79 years |     |     | 80+ years |    |    | Total |
|-------------|------|-----|-------------|------|-----|-------------|------|-----|-------------|-----|-----|-----------|----|----|-------|
| s           | m    | w   | s           | m    | w   | s           | m    | w   | s           | m   | w   | s         | m  | w  |       |
| 15          | 52   | 3   | 6           | 41   | 5   | 4           | 11   | 8   | 0           | 6   | 5   | 0         | 0  | 2  | 437   |
| 30          | 30   | 2   | 16          | 21   | 4   | 4           | 11   | 5   | 1           | 2   | 5   | 0         | 0  | 1  | 424   |
| 372         | 341  | 22  | 88          | 127  | 19  | 10          | 23   | 6   | 3           | 3   | 1   | 0         | 3  | 0  | 5968  |
| 7           | 16   | 0   | 3           | 21   | 1   | 0           | 4    | 3   | 0           | 1   | 2   | 0         | 1  | 0  | 187   |
| 95          | 842  | 54  | 43          | 497  | 70  | 18          | 172  | 50  | 7           | 54  | 17  | 2         | 9  | 2  | 7455  |
| 93          | 433  | 33  | 56          | 288  | 38  | 21          | 113  | 36  | 9           | 34  | 24  | 4         | 4  | 4  | 3350  |
| 20          | 127  | 6   | 11          | 82   | 14  | 14          | 41   | 12  | 1           | 8   | 5   | 0         | 1  | 0  | 1159  |
| 14          | 22   | 0   | 4           | 19   | 3   | 1           | 2    | 2   | 0           | 2   | 1   | 1         | 0  | 0  | 837   |
| 27          | 145  | 13  | 16          | 108  | 17  | 8           | 53   | 19  | 1           | 13  | 11  | 0         | 0  | 0  | 1213  |
| 42          | 165  | 9   | 23          | 75   | 9   | 8           | 33   | 12  | 3           | 9   | 4   | 0         | 1  | 1  | 2286  |
| 39          | 546  | 35  | 23          | 343  | 38  | 15          | 161  | 35  | 4           | 40  | 20  | 0         | 3  | 3  | 3810  |
| 114         | 247  | 22  | 41          | 124  | 25  | 13          | 64   | 16  | 7           | 13  | 4   | 0         | 2  | 1  | 6456  |
| 8           | 121  | 3   | 5           | 48   | 8   | 1           | 4    | 3   | 0           | 3   | 2   | 0         | 0  | 0  | 1131  |
| 25          | 405  | 12  | 8           | 217  | 24  | 5           | 87   | 13  | 0           | 21  | 3   | 1         | 2  | 3  | 2919  |
| 124         | 92   | 9   | 41          | 38   | 15  | 18          | 20   | 6   | 3           | 5   | 1   | 1         | 0  | 0  | 2692  |
| 67          | 330  | 23  | 44          | 244  | 31  | 10          | 94   | 26  | 1           | 21  | 2   | 1         | 1  | 0  | 2408  |
| 7           | 24   | 4   | 6           | 26   | 6   | 5           | 25   | 11  | 1           | 12  | 6   | 0         | 5  | 3  | 276   |
| 31          | 48   | 6   | 28          | 96   | 14  | 23          | 72   | 25  | 16          | 22  | 23  | 1         | 10 | 8  | 676   |
| 14          | 11   | 3   | 25          | 20   | 10  | 22          | 33   | 28  | 7           | 36  | 21  | 4         | 13 | 14 | 815   |
| 51          | 91   | 11  | 28          | 67   | 20  | 11          | 39   | 19  | 6           | 19  | 9   | 1         | 1  | 1  | 1633  |
| 195         | 4088 | 270 | 515         | 2502 | 371 | 211         | 1062 | 335 | 70          | 324 | 166 | 16        | 56 | 43 | 46132 |

## Appendix 1.04 (contd.)

Table of population of Copenhagen 1787. Females.

| Occupations   | 0-9 years   |             |            | 10-19 years |             |             | 20-29 years |             |             | 30-39 years |  |  |
|---|-------------|-------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--|--|
|   | s           | s           | m          | w           | s           | m           | w           | s           | m           | w           |  |  |
| Ecclesiastical functionaries                          | 123         | 48          | 4          | 0           | 23          | 40          | 0           | 12          | 45          | 5           |  |  |
| Army officers   | 59          | 29          | 2          | 0           | 11          | 29          | 0           | 5           | 25          | 0           |  |  |
| Soldiers  | 581         | 188         | 13         | 0           | 24          | 317         | 1           | 1           | 443         | 3           |  |  |
| Naval officers  | 46          | 26          | 2          | 0           | 9           | 8           | 0           | 8           | 20          | 0           |  |  |
| Seamen  | 1465        | 703         | 10         | 0           | 115         | 595         | 14          | 29          | 996         | 34          |  |  |
| Civil functionaries                                   | 789         | 400         | 25         | 0           | 136         | 255         | 5           | 50          | 407         | 8           |  |  |
| Merchants   | 307         | 166         | 20         | 0           | 60          | 142         | 5           | 15          | 158         | 8           |  |  |
| Merchants' labourers and apprentices                  | 62          | 23          | 1          | 0           | 6           | 29          | 0           | 4           | 22          | 0           |  |  |
| Artists and manufacturers                             | 353         | 172         | 5          | 0           | 65          | 122         | 2           | 21          | 157         | 9           |  |  |
| Artists' and manufacturers' labourers and apprentices | 405         | 199         | 4          | 0           | 120         | 132         | 8           | 39          | 248         | 39          |  |  |
| Artisans  | 1179        | 570         | 23         | 0           | 151         | 381         | 10          | 46          | 633         | 28          |  |  |
| Artisans' journeymen and apprentices                  | 599         | 146         | 13         | 0           | 35          | 300         | 0           | 8           | 383         | 1           |  |  |
| Shipmasters, fishermen and seafarers                  | 263         | 81          | 9          | 0           | 18          | 172         | 4           | 6           | 188         | 2           |  |  |
| Other occupations                                     | 978         | 535         | 13         | 1           | 248         | 291         | 42          | 112         | 537         | 151         |  |  |
| Servants  | 228         | 1843        | 1          | 0           | 4585        | 154         | 11          | 1249        | 144         | 48          |  |  |
| Day-labourers   | 622         | 233         | 3          | 0           | 75          | 198         | 7           | 28          | 368         | 41          |  |  |
| Rentiers  | 64          | 69          | 0          | 2           | 54          | 14          | 6           | 22          | 21          | 15          |  |  |
| Pensioners  | 144         | 165         | 0          | 0           | 78          | 7           | 3           | 37          | 44          | 49          |  |  |
| Paupers   | 184         | 233         | 1          | 0           | 79          | 4           | 10          | 62          | 24          | 59          |  |  |
| Others  | 241         | 220         | 6          | 2           | 142         | 88          | 27          | 72          | 134         | 70          |  |  |
| <b>Total</b>  | <b>8692</b> | <b>6049</b> | <b>155</b> | <b>5</b>    | <b>6034</b> | <b>3278</b> | <b>155</b>  | <b>1826</b> | <b>4997</b> | <b>570</b>  |  |  |

s = single m = married w = widowed

Source: Danmarks Statistik: Folketællingen 1787.

| 40-49 years |      |     | 50-59 years |      |      | 60-69 years |     |      | 70-79 years |     |     | 80+ years |    |     | Total |
|-------------|------|-----|-------------|------|------|-------------|-----|------|-------------|-----|-----|-----------|----|-----|-------|
| s           | m    | w   | s           | m    | w    | s           | m   | w    | s           | m   | w   | s         | m  | w   |       |
| 11          | 39   | 6   | 6           | 22   | 5    | 3           | 6   | 7    | 2           | 2   | 5   | 0         | 0  | 1   | 415   |
| 3           | 25   | 2   | 1           | 10   | 1    | 0           | 3   | 2    | 0           | 1   | 0   | 0         | 0  | 1   | 209   |
| 1           | 272  | 4   | 1           | 97   | 4    | 0           | 19  | 6    | 0           | 1   | 3   | 0         | 0  | 1   | 1980  |
| 6           | 15   | 0   | 2           | 7    | 0    | 0           | 1   | 1    | 1           | 1   | 0   | 0         | 0  | 0   | 153   |
| 7           | 822  | 48  | 3           | 493  | 36   | 2           | 202 | 41   | 2           | 35  | 19  | 0         | 5  | 5   | 5681  |
| 38          | 341  | 14  | 12          | 187  | 30   | 7           | 70  | 36   | 2           | 11  | 11  | 0         | 1  | 5   | 2840  |
| 11          | 103  | 14  | 5           | 45   | 6    | 3           | 21  | 18   | 0           | 2   | 13  | 0         | 0  | 4   | 1126  |
| 1           | 22   | 1   | 1           | 7    | 3    | 1           | 3   | 2    | 0           | 1   | 0   | 0         | 0  | 2   | 191   |
| 11          | 110  | 8   | 6           | 75   | 24   | 1           | 30  | 28   | 0           | 6   | 10  | 0         | 0  | 3   | 1218  |
| 15          | 148  | 57  | 15          | 68   | 76   | 9           | 32  | 66   | 1           | 7   | 18  | 0         | 2  | 1   | 1709  |
| 19          | 437  | 33  | 9           | 260  | 55   | 4           | 105 | 50   | 2           | 19  | 36  | 0         | 2  | 15  | 4067  |
| 1           | 255  | 1   | 0           | 129  | 7    | 2           | 41  | 11   | 1           | 9   | 11  | 0         | 2  | 2   | 1957  |
| 1           | 85   | 1   | 2           | 31   | 8    | 1           | 9   | 6    | 1           | 2   | 7   | 0         | 0  | 1   | 898   |
| 71          | 345  | 208 | 53          | 176  | 211  | 29          | 69  | 136  | 4           | 12  | 47  | 2         | 1  | 10  | 4282  |
| 50          | 90   | 56  | 102         | 41   | 46   | 40          | 14  | 21   | 11          | 4   | 5   | 1         | 0  | 4   | 9048  |
| 16          | 300  | 71  | 7           | 200  | 74   | 3           | 62  | 37   | 1           | 12  | 9   | 0         | 3  | 3   | 2373  |
| 17          | 24   | 38  | 20          | 25   | 61   | 10          | 15  | 45   | 1           | 6   | 31  | 2         | 0  | 3   | 565   |
| 36          | 74   | 82  | 46          | 79   | 127  | 34          | 34  | 99   | 11          | 16  | 56  | 3         | 1  | 23  | 1248  |
| 61          | 26   | 173 | 83          | 38   | 283  | 107         | 33  | 334  | 51          | 19  | 229 | 9         | 8  | 103 | 2213  |
| 36          | 84   | 99  | 24          | 65   | 131  | 16          | 24  | 156  | 11          | 8   | 52  | 2         | 1  | 16  | 1727  |
| 12          | 3617 | 916 | 398         | 2055 | 1188 | 272         | 793 | 1102 | 102         | 174 | 562 | 19        | 26 | 203 | 43900 |



## Appendix 1.05

Table of population of Copenhagen 1801. Males.

| Occupations   | 0-9 years   |             |          |          | 10-19 years |             |           | 20-29 years |             |            | 30-39 years |   |   |
|---|-------------|-------------|----------|----------|-------------|-------------|-----------|-------------|-------------|------------|-------------|---|---|
|   | s           | s           | m        | w        | s           | m           | w         | s           | m           | w          | s           | m | w |
| Church officials<br>and the teaching profession     | 133         | 343         | 0        | 0        | 661         | 32          | 0         | 123         | 59          | 4          |             |   |   |
| Army officers                                       | 84          | 169         | 0        | 0        | 168         | 14          | 1         | 74          | 45          | 2          |             |   |   |
| Soldiers  | 395         | 383         | 1        | 0        | 2440        | 193         | 8         | 807         | 349         | 16         |             |   |   |
| Naval officers                                      | 68          | 78          | 0        | 0        | 33          | 8           | 0         | 14          | 20          | 0          |             |   |   |
| Seamen  | 1240        | 984         | 3        | 0        | 719         | 385         | 4         | 213         | 728         | 34         |             |   |   |
| Civil functionaries                                 | 685         | 349         | 0        | 0        | 309         | 88          | 1         | 181         | 318         | 18         |             |   |   |
| Merchants   | 472         | 212         | 1        | 0        | 126         | 71          | 1         | 85          | 203         | 6          |             |   |   |
| Merchants' labourers and apprentices                | 90          | 426         | 0        | 0        | 424         | 27          | 0         | 96          | 52          | 2          |             |   |   |
| Manufacturers                                       | 167         | 94          | 0        | 0        | 44          | 27          | 0         | 12          | 76          | 1          |             |   |   |
| Manufacturers' labourers and apprentices            | 195         | 265         | 0        | 0        | 400         | 79          | 1         | 129         | 137         | 4          |             |   |   |
| Artists and artisans                                | 1654        | 579         | 1        | 0        | 181         | 279         | 4         | 135         | 864         | 24         |             |   |   |
| Artists' and<br>artisans' labourers and apprentices | 870         | 1957        | 3        | 0        | 2399        | 326         | 9         | 609         | 578         | 22         |             |   |   |
| Shipmasters, fishermen and seafarers                | 338         | 346         | 0        | 0        | 387         | 97          | 0         | 107         | 271         | 6          |             |   |   |
| Farmers, innkeepers and the like                    | 1343        | 514         | 0        | 0        | 171         | 167         | 3         | 99          | 733         | 10         |             |   |   |
| Servants  | 272         | 339         | 0        | 0        | 1200        | 57          | 3         | 728         | 208         | 9          |             |   |   |
| Day-labourers                                       | 768         | 276         | 0        | 0        | 198         | 75          | 1         | 191         | 377         | 14         |             |   |   |
| Rentiers  | 89          | 123         | 0        | 0        | 27          | 8           | 1         | 12          | 18          | 2          |             |   |   |
| Pensioners  | 195         | 161         | 0        | 0        | 23          | 2           | 0         | 23          | 26          | 4          |             |   |   |
| Paupers   | 383         | 283         | 0        | 0        | 34          | 1           | 0         | 42          | 19          | 5          |             |   |   |
| Unknown occupation                                  | 66          | 16          | 0        | 0        | 18          | 8           | 0         | 9           | 17          | 2          |             |   |   |
| <b>Total</b>  | <b>9507</b> | <b>7897</b> | <b>9</b> | <b>0</b> | <b>9962</b> | <b>1944</b> | <b>37</b> | <b>3689</b> | <b>5098</b> | <b>185</b> |             |   |   |

s = single m = married w = widowed

Source: Danmarks Statistik: Folketællingen 1801.

| 40-49 years |      |     | 50-59 years |      |     | 60-69 years |      |     | 70-79 years |     |     | 80+ years |    |    | Total |
|-------------|------|-----|-------------|------|-----|-------------|------|-----|-------------|-----|-----|-----------|----|----|-------|
| s           | m    | w   | s           | m    | w   | s           | m    | w   | s           | m   | w   | s         | m  | w  |       |
| 22          | 55   | 1   | 16          | 36   | 4   | 5           | 25   | 8   | 2           | 4   | 2   | 0         | 1  | 3  | 1539  |
| 20          | 28   | 5   | 14          | 30   | 7   | 8           | 12   | 5   | 2           | 2   | 1   | 1         | 0  | 0  | 692   |
| 06          | 212  | 16  | 106         | 72   | 14  | 16          | 25   | 8   | 4           | 6   | 3   | 0         | 0  | 0  | 5380  |
| 8           | 28   | 0   | 3           | 15   | 0   | 0           | 5    | 2   | 0           | 2   | 2   | 0         | 0  | 0  | 286   |
| 08          | 741  | 63  | 41          | 398  | 67  | 12          | 139  | 35  | 2           | 25  | 8   | 0         | 1  | 3  | 5953  |
| 83          | 351  | 26  | 43          | 226  | 29  | 24          | 77   | 33  | 4           | 20  | 8   | 0         | 1  | 1  | 2875  |
| 34          | 170  | 23  | 11          | 101  | 12  | 6           | 38   | 10  | 2           | 8   | 9   | 0         | 0  | 0  | 1601  |
| 30          | 36   | 4   | 10          | 26   | 3   | 5           | 7    | 6   | 1           | 1   | 1   | 0         | 2  | 0  | 1249  |
| 11          | 88   | 7   | 1           | 50   | 5   | 2           | 21   | 3   | 2           | 8   | 2   | 0         | 0  | 0  | 621   |
| 56          | 128  | 8   | 20          | 74   | 18  | 10          | 29   | 8   | 2           | 7   | 4   | 0         | 1  | 1  | 1576  |
| 66          | 901  | 47  | 31          | 447  | 73  | 15          | 194  | 71  | 2           | 44  | 30  | 0         | 5  | 5  | 5652  |
| 04          | 408  | 24  | 83          | 275  | 32  | 22          | 68   | 18  | 1           | 8   | 14  | 0         | 1  | 0  | 7931  |
| 32          | 167  | 8   | 13          | 89   | 6   | 1           | 18   | 5   | 1           | 4   | 4   | 0         | 0  | 0  | 1900  |
| 60          | 725  | 29  | 35          | 409  | 30  | 5           | 128  | 22  | 5           | 42  | 11  | 0         | 4  | 2  | 4547  |
| 41          | 166  | 17  | 69          | 80   | 26  | 19          | 31   | 9   | 4           | 4   | 4   | 0         | 0  | 1  | 3487  |
| 58          | 446  | 38  | 96          | 312  | 57  | 32          | 101  | 36  | 7           | 25  | 12  | 0         | 2  | 0  | 3222  |
| 5           | 15   | 6   | 10          | 30   | 11  | 8           | 27   | 12  | 7           | 19  | 7   | 0         | 2  | 2  | 441   |
| 31          | 65   | 10  | 42          | 161  | 40  | 39          | 157  | 55  | 21          | 61  | 39  | 2         | 10 | 14 | 1181  |
| 40          | 28   | 9   | 53          | 50   | 24  | 40          | 66   | 70  | 20          | 42  | 67  | 4         | 21 | 21 | 1322  |
| 1           | 17   | 1   | 3           | 10   | 4   | 1           | 5    | 3   | 0           | 2   | 1   | 0         | 2  | 1  | 187   |
| 16          | 4775 | 342 | 700         | 2891 | 462 | 270         | 1173 | 419 | 89          | 334 | 229 | 7         | 53 | 54 | 51642 |

## Appendix 1.05 (contd.)

Table of population of Copenhagen 1801. Females.

| Occupations   | 0-9 years   |             |            |          | 10-19 years |             |            | 20-29 years |             |            | 30-39 years |   |   |
|---|-------------|-------------|------------|----------|-------------|-------------|------------|-------------|-------------|------------|-------------|---|---|
|   | s           | s           | m          | w        | s           | m           | w          | s           | m           | w          | s           | m | w |
| Church officials<br>and the teaching profession     | 171         | 133         | 6          | 0        | 59          | 70          | 4          | 25          | 53          | 5          |             |   |   |
| Army officers                                       | 80          | 57          | 5          | 0        | 24          | 46          | 0          | 5           | 36          | 0          |             |   |   |
| Soldiers  | 429         | 115         | 9          | 0        | 9           | 245         | 0          | 1           | 313         | 1          |             |   |   |
| Naval officers                                      | 51          | 35          | 2          | 0        | 13          | 29          | 1          | 3           | 28          | 2          |             |   |   |
| Seamen  | 1107        | 550         | 7          | 0        | 87          | 394         | 9          | 17          | 699         | 20         |             |   |   |
| Civil functionaries                                 | 690         | 408         | 9          | 0        | 166         | 260         | 5          | 44          | 340         | 8          |             |   |   |
| Merchants   | 454         | 265         | 22         | 0        | 108         | 214         | 5          | 21          | 187         | 9          |             |   |   |
| Merchants' labourers and apprentices                | 87          | 43          | 3          | 0        | 15          | 51          | 0          | 1           | 47          | 0          |             |   |   |
| Manufacturers                                       | 163         | 125         | 5          | 0        | 42          | 56          | 4          | 13          | 70          | 5          |             |   |   |
| Manufacturers' labourers and apprentices            | 199         | 104         | 1          | 0        | 70          | 86          | 6          | 32          | 139         | 15         |             |   |   |
| Artists and artisans                                | 1623        | 886         | 28         | 0        | 226         | 522         | 9          | 44          | 940         | 27         |             |   |   |
| Artists' and<br>artisans' labourers and apprentices | 813         | 225         | 11         | 0        | 33          | 451         | 1          | 5           | 511         | 4          |             |   |   |
| Shipmasters, fishermen and seafarers                | 331         | 129         | 16         | 0        | 26          | 184         | 3          | 5           | 224         | 8          |             |   |   |
| Farmers, innkeepers and the like                    | 1412        | 757         | 12         | 0        | 215         | 424         | 17         | 44          | 803         | 37         |             |   |   |
| Servants  | 295         | 2216        | 5          | 0        | 4679        | 189         | 31         | 1196        | 259         | 82         |             |   |   |
| Day-labourers                                       | 807         | 434         | 1          | 0        | 292         | 199         | 57         | 144         | 436         | 169        |             |   |   |
| Rentiers  | 72          | 113         | 3          | 0        | 72          | 25          | 15         | 34          | 18          | 26         |             |   |   |
| Pensioners  | 192         | 299         | 2          | 0        | 188         | 16          | 29         | 61          | 55          | 65         |             |   |   |
| Paupers   | 446         | 394         | 0          | 0        | 156         | 11          | 15         | 120         | 38          | 116        |             |   |   |
| Unknown occupation                                  | 49          | 44          | 2          | 0        | 55          | 21          | 5          | 10          | 23          | 13         |             |   |   |
| <b>Total</b>  | <b>9471</b> | <b>7332</b> | <b>149</b> | <b>0</b> | <b>6535</b> | <b>3493</b> | <b>216</b> | <b>1825</b> | <b>5219</b> | <b>612</b> |             |   |   |

s = single m = married w = widowed

Source: Danmarks Statistik: Folketællingen 1801.

| 40-49 years |      |      | 50-59 years |      |      | 60-69 years |     |      | 70-79 years |     |     | 80+ years |    |     | Total |
|-------------|------|------|-------------|------|------|-------------|-----|------|-------------|-----|-----|-----------|----|-----|-------|
| s           | m    | w    | s           | m    | w    | s           | m   | w    | s           | m   | w   | s         | m  | w   |       |
| 13          | 48   | 9    | 9           | 20   | 10   | 2           | 13  | 17   | 1           | 1   | 6   | 0         | 0  | 3   | 678   |
| 5           | 26   | 1    | 4           | 17   | 2    | 1           | 3   | 6    | 0           | 0   | 0   | 0         | 0  | 0   | 318   |
| 0           | 171  | 4    | 0           | 60   | 7    | 0           | 12  | 4    | 0           | 2   | 2   | 0         | 0  | 0   | 1384  |
| 1           | 9    | 4    | 4           | 9    | 1    | 0           | 2   | 2    | 0           | 0   | 1   | 1         | 0  | 0   | 198   |
| 7           | 682  | 15   | 1           | 368  | 47   | 0           | 161 | 19   | 0           | 26  | 9   | 0         | 4  | 6   | 4235  |
| 23          | 272  | 11   | 11          | 135  | 27   | 9           | 42  | 43   | 1           | 6   | 11  | 0         | 0  | 8   | 2529  |
| 9           | 103  | 15   | 9           | 51   | 13   | 0           | 16  | 17   | 0           | 0   | 12  | 0         | 1  | 1   | 1532  |
| 3           | 24   | 3    | 1           | 13   | 4    | 0           | 2   | 5    | 0           | 3   | 2   | 0         | 0  | 0   | 307   |
| 3           | 80   | 7    | 2           | 37   | 10   | 3           | 14  | 8    | 1           | 6   | 11  | 0         | 0  | 1   | 666   |
| 11          | 110  | 23   | 10          | 63   | 18   | 4           | 19  | 10   | 1           | 7   | 4   | 0         | 1  | 1   | 934   |
| 18          | 689  | 49   | 4           | 379  | 68   | 4           | 132 | 65   | 5           | 32  | 50  | 0         | 2  | 11  | 5813  |
| 3           | 356  | 8    | 2           | 176  | 10   | 1           | 70  | 9    | 1           | 9   | 11  | 0         | 0  | 2   | 2712  |
| 2           | 139  | 2    | 2           | 44   | 7    | 0           | 13  | 14   | 0           | 3   | 3   | 0         | 0  | 1   | 1156  |
| 25          | 585  | 103  | 22          | 278  | 132  | 11          | 84  | 85   | 0           | 30  | 37  | 0         | 3  | 8   | 5124  |
| 28          | 153  | 110  | 148         | 64   | 88   | 46          | 19  | 49   | 5           | 1   | 16  | 2         | 0  | 3   | 10084 |
| 94          | 392  | 235  | 68          | 224  | 269  | 23          | 59  | 135  | 9           | 13  | 40  | 0         | 3  | 4   | 4107  |
| 13          | 29   | 46   | 25          | 31   | 68   | 22          | 17  | 84   | 6           | 4   | 58  | 4         | 1  | 6   | 792   |
| 52          | 132  | 137  | 59          | 150  | 220  | 34          | 98  | 189  | 12          | 22  | 99  | 4         | 3  | 21  | 2139  |
| 38          | 68   | 312  | 206         | 58   | 531  | 173         | 57  | 649  | 80          | 28  | 488 | 19        | 10 | 168 | 4281  |
| 3           | 17   | 27   | 4           | 9    | 27   | 4           | 6   | 15   | 0           | 2   | 8   | 0         | 0  | 0   | 344   |
| 51          | 4085 | 1121 | 591         | 2186 | 1559 | 337         | 839 | 1425 | 122         | 195 | 868 | 30        | 28 | 244 | 49333 |

Appendix 1.06

Calculations for estimating the size of families.  
1787 census of population. Copenhagen.

|   | Married males<br>aged 20 years<br>and over per<br>1000 males<br>aged 20 years<br>and over | Ratio of males<br>and females<br>aged 0-9 years<br>to married fe-<br>males aged<br>0-49 years | Ratio of un-<br>married males<br>and females<br>aged 10-19<br>years to mar-<br>ried females<br>aged 0-59<br>years | Ratio of un-<br>married fe-<br>males aged<br>10-19 years,<br>multiplied<br>by 2, to<br>married fe-<br>males aged<br>0-59 years |
|---|---|---|---|--|
| Ecclesiastical and civil<br>functionaries, and officers<br>of the army and navy | 547   | 1.55  | 0.65  | 0.67   |
| Soldiers  | 256   | 1.11  | 0.69  | 0.33   |
| Seamen  | 656   | 1.17  | 0.64  | 0.48   |
| Merchants   | 676   | 1.46  | 0.66  | 0.71   |
| Merchants' labourers<br>and apprentices   | 202   | 1.55  | 4.52  | 0.57   |
| Artists and manufacturers   | 689   | 1.70  | 0.68  | 0.73   |
| Artists' and manufacturers'<br>labourers and apprentices                        | 406   | 1.42  | 0.97  | 0.66   |
| Artisans  | 813   | 1.56  | 0.56  | 0.66   |
| Artisans' journeymen and<br>apprentices   | 249   | 1.32  | 1.60  | 0.27   |
| Shipmasters, fishermen<br>and seafarers   | 670   | 1.00  | 0.40  | 0.28   |
| Other occupations   | 849   | 1.67  | 0.62  | 0.79   |
| Servants  | 153   | 1.06  | 4.86  | 8.57 <sup>1)</sup>   |
| Day-labourers   | 696   | 1.35  | 0.36  | 0.44   |
| Rentiers  | 452   | 1.92  | 1.29  | 1.64   |
| Pensioners  | 547   | 2.12  | 1.19  | 1.19   |
| Paupers   | 405   | 7.22  | 5.66  | 5.01   |
| Others  | 340   | 1.68  | 1.39  | 1.17   |
| Average   | 485   | 1.42  | 0.91  | 0.85   |

<sup>1)</sup> Ratio of unmarried males aged 10-19 years, multiplied by 2, to married females aged 0-59 years = 1.14.

Basis of calculation: Appendix 1.04.

Appendix 1.07

Calculations for estimating the size of families.  
1801 census of population. Copenhagen.

|  | Married males<br>aged 20 years<br>and over per<br>1000 males<br>aged 20 years<br>and over | Ratio of males<br>and females<br>aged 0-9 years<br>to married fe-<br>males aged<br>0-49 years | Ratio of un-<br>married males<br>and females<br>aged 10-19<br>years to mar-<br>ried females<br>aged 0-59<br>years | Ratio of un-<br>married fe-<br>males aged<br>10-19 years<br>multiplied<br>by 2, to<br>married fe-<br>males aged<br>0-59 years |
|--|---|---|---|---|
| Ecclesiastical and civil<br>functionaries, teachers,<br>officers of the army and<br>navy | 431   | 1.57  | 1.09  | 0.86  |
| Soldiers   | 190   | 1.12  | 0.62  | 0.29  |
| Seamen   | 649   | 1.32  | 0.71  | 0.51  |
| Merchants  | 645   | 1.76  | 0.83  | 0.92  |
| Merchants' labourers<br>and apprentices  | 206   | 1.42  | 3.40  | 0.62  |
| Manufacturers  | 750   | 1.56  | 0.88  | 1.01  |
| Manufacturers' labourers<br>and apprentices  | 470   | 1.17  | 0.92  | 0.52  |
| Artists and artisans   | 800   | 1.50  | 0.57  | 0.69  |
| Artists' and artisans'<br>labourers and apprentices                                      | 326   | 1.27  | 1.45  | 0.30  |
| Shipmasters, fishermen<br>and seafarers  | 531   | 1.19  | 0.78  | 0.39  |
| Farmers, innkeepers and<br>the like  | 821   | 1.51  | 0.60  | 0.72  |
| Servants   | 190   | 0.94  | 3.81  | 6.61 <sup>1)</sup>  |
| Day-labourers  | 614   | 1.53  | 0.57  | 0.69  |
| Rentiers   | 520   | 2.15  | 2.23  | 2.13  |
| Pensioners   | 584   | 1.89  | 1.30  | 1.68  |
| Paupers  | 361   | 7.09  | 3.87  | 4.50  |
| Unknown occupation   | 581   | 1.83  | 0.83  | 1.22  |
| <b>Average</b>   | <b>475</b>  | <b>1.47</b>   | <b>1.01</b>   | <b>0.97</b>   |

1) Ratio of unmarried males, multiplied by 2, to married females aged 0-59 years = 0.7134.

Basis of calculation: Appendix 1.05.

Appendix 1.11

Prices:

Shirts<sup>1)</sup> for seamen or for Christiansø prisoners

| Year | Total number | Sk. per piece | Year | Total number | Sk. per piece |
|------|--------------|---------------|------|--------------|---------------|
| 1728 | 240          | 64            | 1769 | 8            | 88            |
| 1729 | 300          | 64            | 1770 | 358          | 88            |
| 1730 | 262          | 45            | 1773 | 4            | 88            |
| 1731 | 253          | 60            | 1774 | 4            | 88            |
| 1732 | 316          | 60            | 1775 | 4            | 88            |
| 1733 | 340          | 60            | 1776 | 792          | 88            |
| 1734 | 378          | 60            | 1777 | 247          | 88            |
| 1735 | 514          | 60            | 1779 | 604          | 88            |
| 1736 | 474          | 60            | 1780 | 1437         | 88            |
| 1737 | 468          | 60            | 1781 | 1771         | 88            |
| 1738 | 434          | 60            |      |              |               |
| 1739 | 278          | 60            | 1788 | 50           | 96            |
| 1740 | 256          | 60            | -    | 775          | 104           |
| 1741 | 42           | 60            | -    | 1200         | 112           |
| 1743 | 380          | 52            |      |              |               |
| 1745 | 1150         | 68            | 1794 | 5000         | 79            |
| 1746 | 1540         | 68            | 1795 | 650          | 76            |
|      |              |               | -    | 500          | 77            |
| 1761 | 12           | 80            | 1796 | 1200         | 80            |
| 1763 | 3            | 80            | -    | 170          | 96            |
| 1764 | 12           | 88            | 1797 | 800          | 88            |
| 1765 | 10           | 88            | -    | 100          | 96            |
| 1766 | 8            | 88            | 1798 | 1712         | 106           |
| 1767 | 8            | 88            | 1800 | 200          | 106           |
| 1768 | 8            | 88            |      |              |               |

<sup>1)</sup> White or bleached linen shirts.

Source: RA Sjøtaten, Kommissariatskontoret, Indkøb og udlevering, Indtægtsbog på adskillige materialer til Sjøtaten 1728-53 and 1761-1800.

Appendix 1.12

Prices:

Flensburg or Russian sailcloth for seamen's or artisans' uniforms,  
rolls of 52 *alen* × 24 *tommer*.

| Year | Sk. per piece<br>excluding<br>discount | Discount                        | Year | Sk. per piece<br>excluding<br>discount | Discount                        |
|------|--|---------------------------------|------|--|---------------------------------|
| 1728 | 416                                    | 1 <sup>1</sup> / <sub>3</sub> % | 1749 | 480                                    | 1 <sup>1</sup> / <sub>3</sub> % |
| 1729 | 432                                    | 1 <sup>1</sup> / <sub>3</sub> % | 1750 | 480                                    | 1 <sup>1</sup> / <sub>3</sub> % |
| 1730 | 432                                    | 1 <sup>1</sup> / <sub>3</sub> % | 1751 | 480                                    | 1 <sup>1</sup> / <sub>3</sub> % |
| 1731 | 432                                    | 1 <sup>1</sup> / <sub>3</sub> % | 1752 | 480                                    | 1 <sup>1</sup> / <sub>3</sub> % |
| 1732 | 432                                    | 1 <sup>1</sup> / <sub>3</sub> % |      |  |                                 |
| 1733 | 432                                    | 1 <sup>1</sup> / <sub>3</sub> % | 1761 | 480                                    | 1 <sup>1</sup> / <sub>3</sub> % |
| 1734 | 432                                    | 1 <sup>1</sup> / <sub>3</sub> % | 1762 | 480                                    | 1 <sup>1</sup> / <sub>3</sub> % |
| 1735 | 432                                    | 1 <sup>1</sup> / <sub>3</sub> % | 1763 | 480                                    | 1 <sup>1</sup> / <sub>3</sub> % |
| 1736 | 432                                    | 1 <sup>1</sup> / <sub>3</sub> % | 1764 | 480                                    | 1 <sup>1</sup> / <sub>3</sub> % |
| 1737 | 432                                    | 1 <sup>1</sup> / <sub>3</sub> % | 1765 | 480                                    | 1 <sup>1</sup> / <sub>3</sub> % |
| 1738 | 432                                    | 1 <sup>1</sup> / <sub>3</sub> % | 1766 | 480                                    | 1 <sup>1</sup> / <sub>3</sub> % |
| 1739 | 432                                    | 1 <sup>1</sup> / <sub>3</sub> % | 1767 | 480                                    | 1 <sup>1</sup> / <sub>3</sub> % |
| 1740 | 432                                    | 1 <sup>1</sup> / <sub>3</sub> % | 1768 | 480                                    | 1 <sup>1</sup> / <sub>3</sub> % |
| 1741 | 432                                    | 1 <sup>1</sup> / <sub>3</sub> % | 1769 | 480                                    | 1 <sup>1</sup> / <sub>3</sub> % |
| 1742 | 432                                    | 1 <sup>1</sup> / <sub>3</sub> % | 1770 | 480                                    | 1 <sup>1</sup> / <sub>3</sub> % |
| 1743 | 432                                    | 1 <sup>1</sup> / <sub>3</sub> % | 1771 | 480                                    | 1 <sup>1</sup> / <sub>3</sub> % |
| 1744 | 432                                    | 1 <sup>1</sup> / <sub>3</sub> % | 1772 | 480                                    | 1 <sup>1</sup> / <sub>3</sub> % |
| 1745 | 432                                    | 1 <sup>1</sup> / <sub>3</sub> % | 1773 | 480                                    | 1 <sup>1</sup> / <sub>3</sub> % |
| 1746 | 480                                    | 1 <sup>1</sup> / <sub>3</sub> % | 1774 | 480                                    | 1 <sup>1</sup> / <sub>3</sub> % |
| 1747 | 480                                    | 1 <sup>1</sup> / <sub>3</sub> % | 1775 | 480                                    | 1 <sup>1</sup> / <sub>3</sub> % |
| 1748 | 480                                    | 1 <sup>1</sup> / <sub>3</sub> % |      |  |                                 |

Source: as for Appendix 1.11.



## Appendix 1.13

Prices:

Shoes for seamen and Christiansø prisoners.

| Year | Sk. per pair<br>excluding discount |                             |   | Year | Sk. per pair<br>excluding<br>discount. |          |
|------|------------------------------------|-----------------------------|---|------|--|----------|
|      | Shoes for<br>seamen                | Shoes for<br>pris-<br>oners | Discount                                      |      | Shoes for<br>seamen                    | Discount |
| 1729 | 84                                 | 88                          | 1 <sup>1</sup> / <sub>3</sub> %               | 1748 | 92                                     | 0        |
| 1730 | 84                                 | 72                          | 1 <sup>1</sup> / <sub>3</sub> %               | 1749 | 92                                     | 0        |
| 1731 |                                    | 72                          | 1 <sup>1</sup> / <sub>3</sub> %               | 1750 | 92                                     | 0        |
| 1732 |                                    | 72                          | 1 <sup>1</sup> / <sub>3</sub> %               | 1751 | 92                                     | 0        |
| 1733 | 80                                 | 64                          | 1 <sup>1</sup> / <sub>3</sub> % <sup>1)</sup> | 1752 | 96                                     | 0        |
| 1734 |                                    | 64                          | 0   | 1753 | 96                                     | 0        |
| 1735 | 88                                 | 64                          | 0   |      |  |          |
| 1736 | 88                                 | 64                          | 0   | 1762 | 96                                     | 0        |
| 1737 | 88                                 | 64                          | 1 <sup>1</sup> / <sub>3</sub> % <sup>1)</sup> |      |  |          |
| 1738 |                                    | 64                          | 0   | 1769 | 96                                     | 0        |
| 1739 |                                    | 64                          | 0   | 1770 | 96                                     | 0        |
| 1740 |                                    | 64                          | 0   | 1773 | 96                                     | 0        |
| 1741 | 80                                 | 64                          | 0   | 1774 | 96                                     | 0        |
|      |                                    |                             |   | 1775 | 96                                     | 0        |
| 1745 | 92                                 |                             | 0   | 1776 | 96                                     | 0        |
| 1746 | 92                                 | 92                          | 0   | 1777 | 96                                     | 0        |
|      |                                    |                             |   | 1778 | 96                                     | 0        |
|      |                                    |                             |   | 1779 | 96                                     | 0        |
|      |                                    |                             |   | 1780 | 96                                     | 0        |
|      |                                    |                             |   | 1781 | 96                                     | 0        |
|      |                                    |                             |   | 1782 | 96                                     | 0        |
|      |                                    |                             |   |      |  |          |
|      |                                    |                             |   | 1788 | 96                                     | 0        |
|      |                                    |                             |   | 1789 | 120                                    | 0        |
|      |                                    |                             |   |      |  |          |
|      |                                    |                             |   | 1794 | 92                                     | 0        |
|      |                                    |                             |   | 1795 | 80                                     | 0        |
|      |                                    |                             |   | 1796 | 80                                     | 0        |
|      |                                    |                             |   | 1797 | 80                                     | 0        |
|      |                                    |                             |   | 1798 | 96                                     | 0        |
|      |                                    |                             |   | 1800 | 84-96                                  | 0        |

1) Only on seamen's shoes, no discount on prisoners' shoes.

Source: as for Appendix 1.11.

Appendix 1.14

Prices:

Boots purchased by the Royal Navy.

| Year | Sk. per pair excl. discount | Discount          | Year | Sk. per pair excl. discount | Discount            |
|------|-----------------------------|-------------------|------|-----------------------------|---------------------|
| 1729 | 384                         | 1 $\frac{1}{3}$ % | 1768 | 384                         | 1 $\frac{1}{3}$ %   |
| 1730 | 336                         | 1 $\frac{1}{3}$ % | 1769 | 384                         | 1 $\frac{1}{3}$ %   |
| 1732 | 384                         | 1 $\frac{1}{3}$ % | 1770 | 384                         | 1 $\frac{1}{3}$ %   |
| 1733 | 384                         | 1 $\frac{1}{3}$ % | 1771 | 384                         | 1 $\frac{1}{3}$ %   |
|      |                             |                   | 1772 | 384                         | 1 $\frac{1}{3}$ %   |
| 1737 | 384                         | 1 $\frac{1}{3}$ % |      |                             |                     |
| 1738 | 384                         | 1 $\frac{1}{3}$ % | 1775 | 384                         | 1 $\frac{1}{3}$ %   |
| 1739 | 384                         | 1 $\frac{1}{3}$ % | 1776 | 384                         | 1 $\frac{1}{3}$ %   |
| 1740 | 384                         | 1 $\frac{1}{3}$ % | 1777 | 384                         | 1 $\frac{1}{3}$ %   |
| 1741 | 384                         | 1 $\frac{1}{3}$ % | 1778 | 384                         | 1 $\frac{1}{3}$ %   |
| 1742 | 320-384                     | 1 $\frac{1}{3}$ % | 1779 | 384                         | 1 $\frac{1}{3}$ %   |
| 1743 | 384                         | 1 $\frac{1}{3}$ % | 1780 | 384                         | 1 $\frac{1}{3}$ %   |
| 1744 | 384                         | 1 $\frac{1}{3}$ % | 1781 | 384                         | 1 $\frac{1}{3}$ %   |
| 1745 | 320                         | 1 $\frac{1}{3}$ % | 1782 | 384                         | 1 $\frac{1}{3}$ %   |
| 1747 | 320                         | 1 $\frac{1}{3}$ % | 1783 | 384                         | 1 $\frac{1}{3}$ %   |
| 1748 | 320                         | 1 $\frac{1}{3}$ % | 1784 | 384                         | 1 $\frac{1}{3}$ %   |
| 1749 | 320                         | 1 $\frac{1}{3}$ % | 1785 | 384                         | 1 $\frac{1}{3}$ %   |
| 1750 | 320                         | 1 $\frac{1}{3}$ % | 1786 | 384                         | 1 $\frac{1}{3}$ %   |
| 1751 | 320                         | 1 $\frac{1}{3}$ % | 1787 | 384                         | 1 $\frac{1}{3}$ %   |
| 1752 | 384                         | 1 $\frac{1}{3}$ % | 1788 | 384-432                     | 0-1 $\frac{1}{3}$ % |
| 1753 | 384                         | 1 $\frac{1}{3}$ % | 1789 | 384-448                     | 0-1 $\frac{1}{3}$ % |
|      |                             |                   | 1790 | 448-576                     | 0                   |
| 1761 | 384                         | 1 $\frac{1}{3}$ % | 1791 | 448                         | 0                   |
| 1762 | 384                         | 1 $\frac{1}{3}$ % | 1792 | 448                         | 0                   |
| 1763 | 384                         | 1 $\frac{1}{3}$ % | 1794 | 316                         | 0                   |
| 1764 | 384                         | 1 $\frac{1}{3}$ % | 1795 | 312                         | 0                   |
| 1765 | 384                         | 1 $\frac{1}{3}$ % | 1796 | 312-352                     | 0                   |
| 1766 | 384                         | 1 $\frac{1}{3}$ % | 1797 | 352                         | 0                   |
| 1767 | 384                         | 1 $\frac{1}{3}$ % | 1798 | 352-384                     | 0                   |
|      |                             |                   | 1800 | 336-416                     | 0                   |

Source: As for Appendix 1.11.

Appendix 1.15

Prices:

Fish-oil for lighting purchased by the Royal Navy.

| Year | Sk. per pot<br>excluding<br>discount <sup>1)</sup> | Discount <sup>2)</sup> | Year | Sk. per pot<br>excluding<br>discount <sup>1)</sup> | Discount <sup>2)</sup> |
|------|--|------------------------|------|--|------------------------|
| 1728 | 16   | 1 1/3 %                | 1772 | 16   | 31 % + 1 1/3 %         |
| 1729 | 16   | 3 % + 1 1/3 %          | 1773 | 16   | 31 % + 1 1/3 %         |
| 1730 | 16   | 3 % + 1 1/3 %          | 1775 | 16   | 20 % + 1 1/3 %         |
| 1731 | 16   | 3 % + 1 1/3 %          | 1776 | 16   | 20 % + 1 1/3 %         |
| 1732 | 16 <sup>3)</sup>                                   | 3 % + 1 1/3 %          | 1777 | 16   | 20 % + 1 1/3 %         |
|      |  |                        | 1778 | 16   | 20 % + 1 1/3 %         |
| 1735 | 16   | 3 % + 1 1/3 %          | 1779 | 16   | 20 % + 1 1/3 %         |
| 1736 | 16   | 3 % + 1 1/3 %          | 1780 | 16   | 20 % + 1 1/3 %         |
| 1737 | 16   | 3 % + 1 1/3 %          | 1781 | 16   | 24 % + 1 1/3 %         |
| 1738 | 16   | 3 % + 1 1/3 %          | 1782 | 16   | 24 % + 1 1/3 %         |
| 1739 | 16   | 3 % + 1 1/3 %          | 1783 | 16   | 24 % + 1 1/3 %         |
| 1740 | 16   | 3 % + 1 1/3 %          | 1784 | 16   | 24 % + 1 1/3 %         |
| 1741 | 16   | 3 % + 1 1/3 %          | 1785 | 16   | 24 % + 1 1/3 %         |
| 1742 | 16   | 3 % + 1 1/3 %          | 1786 | 16   | 24 % + 1 1/3 %         |
| 1743 | 16   | 17 % + 1 1/3 %         | 1787 | 16   | 24 % + 1 1/3 %         |
| 1744 | 16   | 17 % + 1 1/3 %         | 1788 | 16   | 24 % + 1 1/3 %         |
|      |  |                        | 1789 | 16   | 24 % + 1 1/3 %         |
| 1761 | 16   | 7 1/4 % + 1 1/3 %      | 1790 | 16   | 24 % + 1 1/3 %         |
| 1762 | 16   | 7 1/4 % + 1 1/3 %      | 1791 | 16   | 24 % + 1 1/3 %         |
| 1763 | 16   | 7 1/4 % + 1 1/3 %      | 1792 | 16   | 24 % + 1 1/3 %         |
| 1764 | 16   | 7 1/4 % + 1 1/3 %      | 1793 | 13   | 0                      |
| 1765 | 16   | 7 1/4 % + 1 1/3 %      | 1794 | 13   | 0                      |
| 1766 | 16   | 7 1/4 % + 1 1/3 %      | 1795 | 13   | 0                      |
| 1768 | 16   | 1 1/3 %                | 1796 | 13   | 0                      |
| -    | 16   | 31 % + 1 1/3 %         | 1797 | 16   | 0                      |
| -    | 16   | 34 % + 1 1/3 %         | 1798 | 16   | 0                      |
| 1769 | 16   | 31 % + 1 1/3 %         | 1799 | 16   | 0                      |
| 1770 | 16   | 31 % + 1 1/3 %         | 1800 | 16   | 0                      |
| 1771 | 16   | 31 % + 1 1/3 %         |      |  |                        |

<sup>1)</sup> Maximum purchases were about 2000 quarts *per annum*.

<sup>2)</sup> These discounts were allowed simultaneously on a whole series of articles – e.g.: paper, ink, white soap, pencils, turpentine, oil and fish-oil – purchased from the same supplier. Changes in the discount, therefore, cannot be interpreted as true changes in the price of fish-oil, since the same discount was allowed on all the articles mentioned.

<sup>3)</sup> Purchases were also made during this year at 8 1/2 *sk.* *per pot* less 1 1/3 % discount.

Source: As for appendix 1.11.

Appendix 1.16

Prices:

Tallow candles purchased by the City Magistrates, average prices.

| Year | <i>Sk. per<br/>lispund</i> | Year | <i>Sk. per<br/>lispund</i> | Year | <i>Sk. per<br/>lispund</i> |
|------|----------------------------|------|----------------------------|------|----------------------------|
| 1731 | 176.0                      | 1757 | 208.0                      | 1780 | 233.0                      |
| 1732 | 176.0                      | 1758 | 192.0                      | 1781 | 320.0                      |
| 1734 | 176.0                      | 1759 | 192.0                      | 1782 | 220.0                      |
| 1736 | 160.0                      | 1760 | 208.0                      | 1783 | 267.0                      |
| 1737 | 160.0                      | 1761 | 240.0                      | 1784 | 256.0                      |
| 1738 | 160.0                      | 1762 | 272.0                      | 1785 | 240.0                      |
| 1739 | 160.0                      | 1763 | 256.0                      | 1786 | 275.0                      |
| 1740 | 176.0                      | 1764 | 256.0                      | 1787 | 288.0                      |
| 1741 | 208.0                      | 1765 | 192.0                      | 1788 | 272.0                      |
| 1742 | 224.0                      | 1766 | 224.0                      | 1789 | 288.0                      |
| 1743 | 192.0                      | 1767 | 251.0                      | 1790 | 288.0                      |
| 1744 | 176.0                      | 1768 | 256.0                      | 1791 | 287.4                      |
| 1745 | 224.0                      | 1769 | 256.0                      | 1792 | 279.5                      |
| 1746 | 256.0                      | 1770 | 256.0                      | 1793 | 280.0                      |
| 1747 | 208.0                      | 1771 | 256.0                      | 1794 | 280.6                      |
| 1748 | 176.0                      | 1772 | 256.0                      | 1795 | 276.2                      |
| 1749 | 176.0                      | 1773 | 272.0                      | 1796 | 339.8                      |
| 1750 | 176.0                      | 1774 | 284.0                      | 1797 | 297.3                      |
| 1751 | 192.0                      | 1775 | 256.0                      | 1798 | 256.2                      |
| 1752 | 208.0                      | 1776 | 240.0                      | 1799 | 288.0                      |
| 1753 | 208.0                      | 1777 | 208.0                      | 1800 | 285.9                      |
| 1755 | 192.0                      | 1778 | 209.0                      |      |                            |
| 1756 | 192.0                      | 1779 | 208.0                      |      |                            |

Source: P. Københavns kærnerregnskaber.

Appendix 1.17

Prices:

Yellow wax candles purchased by the City Magistrates, average prices.

| Year | <i>Sk. per<br/>lispund</i> | Year | <i>Sk. per<br/>lispund</i> | Year | <i>Sk. per<br/>lispund</i> |
|------|----------------------------|------|----------------------------|------|----------------------------|
| 1731 | 576.0                      | 1756 | 640.0                      | 1780 | 704.0                      |
| 1732 | 576.0                      | 1757 | 640.0                      | 1781 | 704.0                      |
| 1734 | 576.0                      | 1758 | 640.0                      | 1782 | 704.0                      |
| 1736 | 576.0                      | 1759 | 640.0                      | 1783 | 704.0                      |
| 1737 | 576.0                      | 1760 | 640.0                      | 1784 | 704.0                      |
| 1738 | 576.0                      | 1761 | 640.0                      | 1785 | 640.0                      |
| 1739 | 576.0                      | 1762 | 640.0                      | 1786 | 768.0                      |
| 1740 | 576.0                      | 1763 | 640.0                      | 1787 | 768.0                      |
| 1741 | 640.0                      | 1764 | 640.0                      | 1788 | 768.0                      |
| 1742 | 640.0                      | 1765 | 640.0                      | 1789 | 1020.0                     |
| 1743 | 640.0                      | 1766 | 640.0                      | 1790 | 1024.0                     |
| 1744 | 640.0                      | 1767 | 640.0                      | 1791 | 1024.0                     |
| 1745 | 640.0                      | 1768 | 640.0                      | 1792 | 1024.0                     |
| 1746 | 640.0                      | 1769 | 640.0                      | 1793 | 1024.0                     |
| 1748 | 640.0                      | 1770 | 576.0                      | 1794 | 1024.0                     |
| 1749 | 640.0                      | 1771 | 583.0                      | 1795 | 1024.0                     |
| 1750 | 640.0                      | 1773 | 672.0                      | 1796 | 1024.0                     |
| 1751 | 640.0                      | 1775 | 768.0                      | 1797 | 1024.0                     |
| 1752 | 640.0                      | 1776 | 768.0                      | 1798 | 1024.0                     |
| 1753 | 640.0                      | 1777 | 768.0                      | 1799 | 1024.0                     |
| 1755 | 640.0                      | 1778 | 744.0                      | 1800 | 991.1                      |

Source: P. Københavns kærnerregnskaber.

Appendix 1.18

Price of green soap in *sk.* per *otting* according to Royal Navy's purchases and Copenhagen market prices respectively.

| Year | Royal Navy's purchases | Market prices         | Year | Royal Navy's purchases | Market prices          |
|------|------------------------|-----------------------|------|------------------------|------------------------|
| 1729 | 168 <sup>1)</sup>      |                       | 1765 | 216                    | 216                    |
| 1730 | 168                    |                       | 1766 | 216                    | 216                    |
| 1731 | 168                    |                       | 1767 | 216                    | 216                    |
| 1732 | 168–180                |                       | 1768 | 216                    | 216                    |
| 1733 | 180                    |                       | 1769 | 216                    | 216                    |
| 1734 | 180                    |                       | 1770 | 216                    | 208–216 <sup>5)</sup>  |
| 1735 | 176                    |                       | 1771 | 216                    | 208                    |
| 1736 | 176                    |                       | 1772 | 216                    | 208                    |
| 1737 | 176                    |                       | 1773 | 216                    | 208                    |
| 1738 | 176                    |                       | 1774 | 216                    | 208                    |
| 1739 |                        |                       | 1775 | 216                    | 208                    |
| 1740 | 176                    |                       | 1776 | 216                    | 208                    |
| 1741 | 200                    |                       | 1777 | 216                    | 208                    |
| 1742 | 204                    |                       | 1778 | 216                    | 208                    |
| 1743 | 204                    |                       | 1779 | 216                    | 208–216 <sup>6)</sup>  |
| 1744 | 204 <sup>2)</sup>      |                       | 1780 | 216                    | 216                    |
| 1745 | 204                    |                       | 1781 | 216                    | 216                    |
| 1746 | 204                    |                       | 1782 | 216–228 <sup>7)</sup>  | 216–228 <sup>8)</sup>  |
| 1747 | 204                    |                       | 1783 | 216                    | 216–228 <sup>8)</sup>  |
| 1748 | 192                    | 192                   | 1784 |                        | 216                    |
| 1749 | 196                    | 196                   | 1785 | 216–240 <sup>10)</sup> | 216–240 <sup>11)</sup> |
| 1750 | 196                    | 196                   | 1786 | 240 <sup>12)</sup>     | 240                    |
| 1751 | 196                    | 196                   | 1787 | 228–240 <sup>13)</sup> | 228–240 <sup>14)</sup> |
| 1752 | 196                    | 196                   | 1788 | 228–252 <sup>15)</sup> | 228–252 <sup>16)</sup> |
| 1753 |                        | 196                   | 1789 | 252 <sup>17)</sup>     | 252                    |
| 1754 |                        | 196                   | 1790 |                        | 252                    |
| 1755 |                        | 196                   | 1791 | 252 <sup>17)</sup>     | 252                    |
| 1756 |                        | 192                   | 1792 | 252 <sup>17)</sup>     | 252                    |
| 1757 |                        | 186–192 <sup>3)</sup> | 1793 | 234                    | 240–252 <sup>18)</sup> |
| 1758 |                        | 186                   | 1794 | 216                    | 222–252 <sup>19)</sup> |
| 1759 |                        | 186                   | 1795 | 216–228                | 192–256 <sup>20)</sup> |
| 1760 |                        | 186                   | 1796 |                        | 192–272 <sup>20)</sup> |
| 1761 |                        | 186                   | 1797 |                        | 234–240 <sup>21)</sup> |
| 1762 |                        | 186–216 <sup>4)</sup> | 1798 |                        | 234                    |
| 1763 | 216                    | 216                   | 1799 |                        | 234                    |
| 1764 | 216                    | 216                   | 1800 |                        | 276                    |

Sources: Purchases of Royal Danish Navy: as Appendix 1.11.

Copenhagen market prices: Friis and Glamann: A History of Prices and Wages in Denmark 1660–1800, vol. I, 1958, pp. 336–350.

1) 1729 168 *sk.* less  $1\frac{1}{3}$  % discount.

2) "To be paid as usual according to the Magistrate's scale".

3) Jan.–Mar. 192 *sk.* per *otting*, Apr.–Dec. 186 *sk.* per *otting*.

4) Jan.–Feb. 186 *sk.* per *otting*, Feb.–Aug. 192 *sk.* per *otting*, Sept.–Dec. 216 *sk.* per *otting*.

5) Jan.–Feb. 216 *sk.* per *otting*, Mar.–Dec. 208 *sk.* per *otting*.

6) Jan.–Sept. 208 *sk.* per *otting*, Oct.–Dec. 216 *sk.* per *otting*.

7) 216 *sk.* per *otting* is paid for soap supplied 6/2 – July, 228 *sk.* per *otting* is paid for soap supplied after 13/8, "paid in accordance with the decree of 4/8 1782".

8) Jan.–Aug. 216 *sk.* per *otting*, Sept.–Dec. 228 *sk.* per *otting*.

- 9) Jan.-Aug. 228 *sk.* per *otting*, Sept.-Dec. 216 *sk.* per *otting*.
- 10) 216 *sk.* per *otting* is paid for soap supplied 17/2-9/5, 240 *sk.* per *otting* is paid for soap supplied 30/7-15/12. Upon receipt a note is made: "In accordance with decrees of 8/9 79 and 23/5 85".
- 11) Jan.-Apr. 216 *sk.* per *otting*, May-Dec. 240 *sk.* per *otting*.
- 12) "in accordance with the decree of 23/5 85".
- 13) 240 *sk.* per *otting* in accordance with the decree of 23/5 87.
- 14) Jan.-Apr. 240 *sk.* per *otting*, May-Dec. 228 *sk.* per *otting*.
- 15) 228 *sk.* per *otting* "in accordance with the decree of 23/5 87".  
240 *sk.* per *otting* "in accordance with the decree of 18/8 88".
- 16) Jan.-July 228 *sk.* per *otting*, Aug.-Dec. 252 *sk.* per *otting*.
- 17) "in accordance with decree of 18/8 88".
- 18) Jan.-June 252 *sk.* per *otting*, July-Dec. 240 *sk.* per *otting*.
- 19) Jan.-May 240 *sk.* per *otting*, June-Nov. 222 *sk.* per *otting*, Dec. 252 *sk.* per *otting*.
- 20) Fluctuating prices.
- 21) Jan.-Oct. 240 *sk.* per *otting*, Nov.-Dec. 234 *sk.* per *otting*.

## Appendix 1.21

The Fleet's victualling scales afloat.  
(Per man per week).

|                   | 1680 <sup>1)</sup>  | 1736 <sup>2)</sup>             | 1752 <sup>3)</sup>  | 1794 <sup>4)</sup>            | Interim<br>scale of<br>1802 <sup>5)</sup> |
|-------------------|---------------------|--------------------------------|---------------------|-------------------------------|---|
| Pork              | 1.083 <i>pund</i>   | 1.500 <i>pund</i>              | 1.500 <i>pund</i>   | 1.500 <i>pund</i>             | 1.500 <i>pund</i>                         |
| Beef              | 2.000 <i>pund</i>   | 3.000 <i>pund</i>              | 3.000 <i>pund</i>   | 3.000 <i>pund</i>             | 3.000 <i>pund</i>                         |
| Bergen fish       | 2.000 <i>pund</i>   | 0.250 <i>pund</i>              | 0.750 <i>pund</i>   | 0                             | 0   |
| Butter            | 1.000 <i>pund</i>   | 1.388 <i>pund</i>              | 1.328 <i>pund</i>   | 1.250 <i>pund</i>             | 1.000 <i>pund</i>                         |
| Barley groat      | 1.250 <i>ottkr.</i> | 1.025 <i>ottkr.</i>            | 1.025 <i>ottkr.</i> | 1.000 <i>ottkr.</i>           | 0.614 <i>ottkr.</i>                       |
| Peas              | 2.500 <i>ottkr.</i> | 0.375 <i>ottkr.</i>            | 0.375 <i>ottkr.</i> | 0.500 <i>ottkr.</i>           | 0.500 <i>ottkr.</i>                       |
| "Hard bread"      | 6.000 <i>pund</i>   | 7.000 <i>pund</i>              | 6.000 <i>pund</i>   | 6.000 <i>pund</i>             | 6.857 <i>pund</i>                         |
| Ale <sup>6)</sup> | 20.00 <i>pot</i>    | 17.25 <i>pot</i> <sup>6)</sup> | 17.25 <i>pot</i>    | 8.50 <i>pot</i> <sup>6)</sup> | 8.50 <i>pot</i> <sup>6)</sup>             |
| <i>Brændevin</i>  | 0                   | 0.250 <i>pot</i>               | 0.250 <i>pot</i>    | 0.437 <i>pot</i>              | 0.437 <i>pot</i>                          |
| Prunes            | 0                   | 0                              |                     |                               | 0.375 <i>pund</i>                         |
| Treacle           | 0                   | 0                              |                     |                               | 0.469 <i>pund</i>                         |

Salt and vinegar are excluded. As regards salt it is presumed that the quantity of salt stated in the victualling scales does not represent the quantity consumed, since both the pork and the beef were salted. The quantities of vinegar were negligible.

- 1) H. G. Garde: *Efterretninger om den danske og norske sømagt*, I, 1832, p. 253 f.
- 2) H. G. Garde: *Efterretninger om den danske og norske sømagt*, II, 1833, p. 216 f.
- 3) RA Søetaten: Admiralitetet, Admiralitetets kongelige resolutioner 1752 8/1.
- 4) Kong Friderich den Femtes Søe-Krigs-Artikels-Brev, dateret 8/1 1752, second ed., 1811, appendix 13. The above-mentioned victualling scale is shown as the victualling scale afloat, approved by the Crown, of 8/1 1752 and 28/3 1794, but since it is not identical with the victualling scale of 1752, it is construed as the 1752 victualling scale with revisions of 1794.
- 5) H. G. Garde: *Efterretninger om den danske og norske sømagt*, IV, 1835, p. 573 f.
- 6) Ship's ale is mentioned in 1680, 1736 and 1752, but 4-dollar ale in 1796 and 1802. 4-dollar ale must have been a considerably better grade, since for 1794 there is a provision that where ship's ale is issued in its place, the ration is to be doubled (Source as for note 4). If the 8.5 *pot* of 4-dollar ale in 1794 are converted to 17 *pot* of ship's ale, the reduction amounts to only 1/4 *pot* per man per week.

## Appendix 1.22

Dietary regulations of Frederiks hospital 1757<sup>1)</sup>.

For midday meals:

Throughout the week 3 *pægl* veal broth with 8 *lod* meat without bone added prepared in the following manner.

On Sunday with chervil and oatmeal.

On Monday with *suramph* (dock and lilac leaves) and spinach.

On Tuesday with Savoy cabbage.

On Wednesday with *purslane* and lettuce.

On Thursday with shredded kale or red cabbage.

On Friday with coarse barley grits.

On Saturday with carrots and oatmeal.



At that season when fresh vegetables are not to be had, the soup on Sundays is permitted to be served with prunes, and on the other days alternatively with coarse barley grits or oatmeal, parsley roots, celery, parsnips and leeks.

For evening meals:

On Sunday a well-cooked half-bowl of barley-meal broth with  $\frac{1}{2}$  *lod* butter.

On Monday warm ale with good thick-cut rye bread, 3 *pægle* with 1 *lod* white caster sugar and  $\frac{1}{2}$  *lod* butter.

On Tuesday as for Sunday.

On Wednesday 3 *pægle* oatmeal broth with parsley or chopped chervil with  $\frac{1}{2}$  *lod* butter.

On Thursday as for Sunday.

On Friday as for Sunday.

On Saturday 3 *pægle* barleymeal broth with anise and  $\frac{1}{2}$  *lod* butter.

With every midday or evening meal is issued  $\frac{1}{2}$  *pund* well baked rye bread or a *simmel* cake to a value of 1 Danish *skilling*, at midday without butter and in the evening with  $\frac{1}{2}$  *lod* butter to both rye bread and *simmel* cake.

To each person daily three *potter* of the hospital's customary ale at 8 Danish *mark* per barrel.

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1) Reglement hvorefter med den daglige Spiisning saavel Middag som Aften udi det Kongelig Friderichs Hospital skal forholdes, Copenhagen, 1757.

#### Appendix 1.23

Frederiks plejehus.

Expenditure account for maintenance of children in care, 1/1–31/12 1766<sup>1</sup>).

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| Aggregate expenditures on:   | <i>rd</i> : <i>sk</i>                   |
|--|---|
| 1. Bread   | 63 : 39                                 |
| 2. Meat  | 32 : 20 $\frac{1}{2}$                   |
| 3. Fish  | 5 : 60                                  |
| 4. Butter and dripping   | 11 : 51                                 |
| 5. Cheese  | 15 : 01                                 |
| 6. Groats of all varieties   | 24 : 85                                 |
| 7. Peas  | 3 : 39 $\frac{1}{2}$                    |
| 8. Wheaten flour   | 3 : 34                                  |
| 9. Rice  | 0 : 28                                  |
| 10. Turnips, cabbage and all varieties of garden produce                 | 14 : 67                                 |
| 11. Eggs   | 0 : 72                                  |
| 12. Salt   | 1 : 24                                  |
| 13. Mustard  | 0 : 46 $\frac{1}{2}$                    |
| 14. Raisins, currants, lemons, caraway seeds and all varieties of spices | 1 : 25                                  |
| 15. Sugar  | 0 : 44 $\frac{1}{2}$                    |
| 16. Treacle  | 3 : 72                                  |
| 17. Tea  | 1 : 86                                  |
| 18. Milk   | 7 : 75 $\frac{1}{2}$                    |
| 19. Ale  | 8 : 88                                  |
| 20. Vinegar  | 0 : 70                                  |
| 21. Wine   | 0 : 35                                  |
| <b>Total</b>   | <b>202 : 07<math>\frac{1}{2}</math></b> |

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1) Hærens Arkiv: Christians Plejehus, Regnskaber 1765–66.

## Appendix 2.0

### Introduction to appendices 2.1–2.7.

Appendices 2.1–2.7 list the most important of the foodstuffs registered in the Copenhagen consumption tax ledgers<sup>1)</sup>. The appendices contain tables showing quantities of grain registered as having been milled in the city and tables of imported foodstuffs. Unmilled grain was not registered on import. For 1730–69 the import-table totals cover total imports, but for 1770–1800 they include only imports by land, cf. p. 38 ff. The figures in the tables are rounded to whole numbers of the units employed. Quantities smaller than  $\frac{1}{2}$  of the units employed are given as 0. In those cases where figures are missing, either the space is left empty or a figure is arrived at by linear interpolation between the preceding and succeeding years. Such interpolated figures are shown in square brackets. Square brackets are also used for those totals where more than 10 % of the amount derives from interpolated figures.

<sup>1)</sup> RA GenToldkamm: Reviderede regnskaber, København; Antegnelser, ekstrakter m. v. 1730–1800. However, the milling figures for 1788–89 and 1799 are taken from: RA GenToldkamm VA II p. 278: Beregninger over de i København formalede samt ind- og udførte kornvarer.

### Appendix 2.1111

Copenhagen consumption tax ledgers.

Registered grain-milling liable to consumption tax.

Rye for flour, barrels.

|      |         |      |       |      |                     |
|------|---------|------|-------|------|---------------------|
| 1730 | 24124   | 1754 | 39735 | 1778 | 59687               |
| 1731 | 23092   | 1755 | 47896 | 1779 | 58980               |
| 1732 | [24736] | 1756 | 54079 | 1780 | 61460               |
| 1733 | [26381] | 1757 | 52877 | 1781 | 59049               |
| 1734 | [28025] | 1758 | 58766 | 1782 | 65548               |
| 1735 | 29670   | 1759 | 50890 | 1783 | 46195               |
| 1736 | 31382   | 1760 | 50944 | 1784 | 67876               |
| 1737 | 30062   | 1761 | 50979 | 1785 | 21296               |
| 1738 | 27946   | 1762 | 49967 | 1786 | 80652 <sup>1)</sup> |
| 1739 | 30791   | 1763 | 56666 | 1787 | 61382               |
| 1740 | 43305   | 1764 | 60892 | 1788 | 53119               |
| 1741 | 49337   | 1765 | 61409 | 1789 | 67323               |
| 1742 | 36541   | 1766 | 56783 | 1790 | 65258               |
| 1743 | 35150   | 1767 | 61057 | 1791 | 57859               |
| 1744 | 32485   | 1768 | 66859 | 1792 | 58449               |
| 1745 | 36978   | 1769 | 61638 | 1793 | 66151               |
| 1746 | 43525   | 1770 | 61898 | 1794 | 69648               |
| 1747 | 41190   | 1771 | 70655 | 1795 | 70339               |
| 1748 | 40191   | 1772 | 65530 | 1796 | 76356               |
| 1749 | 40631   | 1773 | 64551 | 1797 | 58378               |
| 1750 | 35474   | 1774 | 54759 | 1798 | 70209               |
| 1751 | 32948   | 1775 | 52560 | 1799 | 82360               |
| 1752 | 35750   | 1776 | 53754 | 1800 | 92186               |
| 1753 | 36688   | 1777 | 50883 |      |                     |

<sup>1)</sup> According to table filed with the records from 1788.

Appendix 2.1112

Copenhagen consumption tax ledgers.

Registered grain-milling liable to consumption tax.

Barley for flour, barrels.

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|      |       |      |     |      |        |
|------|-------|------|-----|------|--------|
| 1730 | 499   | 1754 | 231 | 1778 | 91     |
| 1731 | 272   | 1755 | 273 | 1779 | 17     |
| 1732 | [326] | 1756 | 290 | 1780 | 32     |
| 1733 | [380] | 1757 | 223 | 1781 | 44     |
| 1734 | [434] | 1758 | 349 | 1782 | 3      |
| 1735 | 489   | 1759 | 498 | 1783 | 2      |
| 1736 | 678   | 1760 | 466 | 1784 | 1809   |
| 1737 | 637   | 1761 | 374 | 1785 | 2657   |
| 1738 | 354   | 1762 | 397 | 1786 | [1666] |
| 1739 | 432   | 1763 | 249 | 1787 | 674    |
| 1740 | 760   | 1764 | 274 | 1788 | 180    |
| 1741 | 1432  | 1765 | 391 | 1789 | 188    |
| 1742 | 1777  | 1766 | 252 | 1790 | 463    |
| 1743 | 889   | 1767 | 180 | 1791 | 229    |
| 1744 | 725   | 1768 | 221 | 1792 | 617    |
| 1745 | 784   | 1769 | 375 | 1793 | 227    |
| 1746 | 993   | 1770 | 160 | 1794 | 67     |
| 1747 | 700   | 1771 | 542 | 1795 | 324    |
| 1748 | 905   | 1772 | 363 | 1796 | 89     |
| 1749 | 660   | 1773 | 152 | 1797 | 14     |
| 1750 | 432   | 1774 | 266 | 1798 | 45     |
| 1751 | 290   | 1775 | 264 | 1799 | 44     |
| 1752 | 274   | 1776 | 103 | 1800 | 1076   |
| 1753 | 284   | 1777 | 18  |      |        |

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## Appendix 2.1113

Copenhagen consumption tax ledgers.

Registered gross imports liable to consumption tax.

Rye- and barley-flour, and bread made from rye- and barley-flour<sup>1)</sup>, barrels.

| Year | The custom<br>house<br>(habour) | Christians-<br>havns Gate | North Gate | West Gate | East Gate | Total imports |
|------|---------------------------------|---------------------------|------------|-----------|-----------|---------------|
| 1730 | [2124]                          | 49                        | 813        | 898       | 132       | [4016]        |
| 1731 | 2599                            | 62                        | 914        | 1259      | 147       | 4981          |
| 1732 | 1845                            | 37                        | 882        | 923       | 143       | 3830          |
| 1733 | 2620                            | 48                        | 955        | 1229      | 136       | 4988          |
| 1734 | 2630                            | 21                        | 945        | 1287      | 172       | 5055          |
| 1735 | 3057                            | 17                        | 743        | 1596      | 107       | 5520          |
| 1736 | 2392                            | 9                         | 592        | 2038      | 56        | 5087          |
| 1737 | 2446                            | 6                         | 512        | [1985]    | 34        | [4983]        |
| 1738 | 2675                            | 14                        | 695        | 1932      | 72        | 5388          |
| 1739 | 3407                            | 15                        | 401        | [1555]    | 136       | [5514]        |
| 1740 | 2711                            | 18                        | 542        | 1178      | 84        | 4533          |
| 1741 | 2840                            | 26                        | 913        | 1548      | 86        | 5413          |
| 1742 | 2190                            | 19                        | 337        | 1820      | 55        | 4421          |
| 1743 | 2656                            | 17                        | 485        | [1523]    | 55        | [4736]        |
| 1744 | 3128                            | 17                        | 479        | 1226      | 55        | 4905          |
| 1745 | 3090                            | 14                        | 611        | 894       | 15        | 4624          |
| 1746 | 3292                            | 14                        | 585        | 957       | 67        | 4915          |
| 1747 | 2363                            | 20                        | 657        | 945       | 155       | 4140          |
| 1748 | 2302                            | 18                        | 600        | 1057      | 143       | 4120          |
| 1749 | 1618                            | 16                        | 594        | 944       | 97        | 3269          |
| 1750 | 1866                            | 21                        | 707        | 1910      | 102       | 4606          |
| 1751 | 1657                            | 26                        | 836        | 2268      | 85        | 4872          |
| 1752 | 1551                            | 23                        | 1180       | 2254      | 82        | 5090          |
| 1753 | 1626                            | 42                        | 1191       | 2405      | 96        | 5360          |
| 1754 | 1770                            | 7                         | 1175       | 2384      | 63        | 5399          |
| 1755 | 1548                            | 12                        | 769        | 1587      | 59        | 3975          |
| 1756 | 1558                            | 24                        | 909        | 1538      | 109       | 4138          |
| 1757 | 1669                            | 43                        | 1245       | 2418      | 61        | 5436          |
| 1758 | 1849                            | 39                        | 365        | 2712      | 65        | 5030          |
| 1759 | 2922                            | 33                        | 671        | 3987      | 73        | 7686          |
| 1760 | 1555                            | 28                        | 366        | 3507      | 69        | 5525          |
| 1761 | 2261                            | 22                        | 906        | 4266      | 60        | 7515          |
| 1762 | 2185                            | 95                        | 962        | [3390]    | 114       | [6746]        |

## Appendix 2.1113 (contd.)

Copenhagen consumption tax ledgers.

Registered gross imports liable to consumption tax.

Rye- and barley-flour<sup>2</sup>), barrels.

| Year | The custom house (habour) | Christians-havns Gate | North Gate | West Gate | East Gate | Total imports |
|------|---------------------------|-----------------------|------------|-----------|-----------|---------------|
| 1763 | 1558                      | 14                    | 548        | 2513      | 38        | 4671          |
| 1764 | 1397                      | 13                    | 739        | 2511      | 85        | 4745          |
| 1765 | 4590                      | 9                     | 403        | 2513      | 112       | 7627          |
| 1766 | 5262                      | 11                    | 674        | 2512      | 64        | 8523          |
| 1767 | 3773                      | 15                    | 607        | 1387      | 98        | 5880          |
| 1768 | 4386                      | 9                     | 754        | 1804      | 94        | 7047          |
| 1769 | 4221                      | 26                    | 778        | 938       | 97        | 6060          |

Footnotes on page 163.

## Appendix 2.1113 (contd.)

Copenhagen consumption tax ledgers.

Registered gross imports liable to consumption tax.

Rye- and barley-flour<sup>2</sup>).

| Year | Christians-havns Gate |        | North Gate |        | West Gate |        |
|------|-----------------------|--------|------------|--------|-----------|--------|
|      | Barrels               | Lispd. | Barrels    | Lispd. | Barrels   | Lispd. |
| 1770 | 21                    | 0      | 612        | 0      | 1892      | 0      |
| 1771 | 75                    | 0      | 488        | 0      | 2511      | 0      |
| 1772 | 17                    | 0      | 471        | 0      | 695       | 0      |
| 1773 | 17                    | 0      | 557        | 0      | 2513      | 0      |
| 1774 | 21                    | 0      | 837        | 0      | 3512      | 0      |
| 1775 | 12                    | 0      | 637        | 0      | 2111      | 0      |
| 1776 | 13                    | 0      | 605        | 0      | 1372      | 0      |
| 1777 | [23]                  | [0]    | [725]      | [0]    | [1255]    | [0]    |
| 1778 | 33                    | 0      | 846        | 0      | 1138      | 0      |
| 1779 | [29]                  | [0]    | [1040]     | [0]    | [1353]    | [0]    |
| 1780 | [25]                  | [0]    | 1233       | 0      | 1567      | 0      |
| 1781 | 22                    | 0      | 930        | 0      | 1489      | 0      |
| 1782 | 34                    | 0      | 1436       | 0      | 1463      | 0      |
| 1783 | 61                    | 0      | 2325       | 0      | [1053]    | [0]    |
| 1784 | 153                   | 0      | 1543       | 1873   | 643       | 0      |
| 1785 | 96                    | 3      | 1025       | 1646   | 1241      | 1269   |
| 1786 | 67                    | 1      | 711        | 727    | 600       | 0      |
| 1787 | 92                    | 0      | 836        | 450    | 939       | 0      |
| 1788 | 0                     | 975    | 771        | 7915   | 946       | 5961   |

Footnotes on page 163.

| East Gate |               | Total imports<br>overland <sup>d)</sup> |
|-----------|---------------|---|
| Barrels   | <i>Lispd.</i> | Barrels                                 |
| 83        | 0             | 2608                                    |
| 89        | 0             | 3163                                    |
| 165       | 0             | 1348                                    |
| 182       | 0             | 3269                                    |
| 190       | 0             | 4560                                    |
| 139       | 0             | 2899                                    |
| 116       | 0             | 2106                                    |
| [113]     | [0]           | [2116]                                  |
| 109       | 0             | 2126                                    |
| [320]     | [0]           | [2742]                                  |
| 531       | 0             | 3356                                    |
| 504       | 0             | 2945                                    |
| 1252      | 0             | 4185                                    |
| 1768      | 0             | [5207]                                  |
| 1531      | 0             | 4046                                    |
| 2797      | 0             | 5432                                    |
| 3542      | 10588         | 5981                                    |
| 2547      | 6680          | 5082                                    |
| 1087      | 11552         | 5279                                    |

Appendix 2.1113 (contd.)

Copenhagen consumption tax ledgers.

Registered gross imports liable to consumption tax.

Rye-flour, *lispund*.

| Year               | Christians-<br>havns Gate | North Gate | West Gate | East Gate | Total imports<br>overland |
|--------------------|---------------------------|------------|-----------|-----------|---------------------------|
| 1789               | 952                       | 18474      | 8984      | 19220     | 47630                     |
| 1790               | 1104                      | 15384      | 8474      | 21472     | 46434                     |
| 1791               | 1110                      | 18606      | 13738     | 23515     | 56969                     |
| 1792               | 1617                      | 15636      | [10660]   | 18824     | [46737]                   |
| 1793               | 1217                      | 11753      | 7582      | 9244      | 29796                     |
| 1794               | 1795                      | 11570      | [10896]   | 7723      | [31984]                   |
| 1795               | 1771                      | 7842       | [14211]   | 13403     | [37227]                   |
| 1796               | 2350                      | 7550       | 17526     | 13360     | 40786                     |
| 1797 <sup>4)</sup> | 1377                      | 1978       | [6878]    | 3036      | [13269]                   |

Appendix 2.1113 (contd.)

Copenhagen consumption tax ledgers.

Registered gross imports liable to consumption tax.

Unsifted rye-flour, *lispund*<sup>5)</sup>.

| Year | Christians-<br>havns Gate | North<br>Gate | West<br>Gate | Total imports,<br>Christianshavns,<br>North and<br>West Gate |
|------|---------------------------|---------------|--------------|--|
| 1797 | 1177                      | 2453          | [7442]       | 11072  |
| 1798 | 1469                      | 4541          | 14671        | 20681  |
| 1799 | 1615                      | 11190         | 13952        | 26757  |
| 1800 | 4405                      | 12533         | 15926        | 32864  |

Appendix 2.1113 (contd.)

Copenhagen consumption tax ledgers.

Registered gross imports liable to consumption tax.

Sifted rye-flour, *lispund*<sup>6)</sup>.

| Year | Christians-<br>havns<br>Gate | North<br>Gate | West<br>Gate | Total imports,<br>Christianshavns,<br>North and<br>West Gate |
|------|------------------------------|---------------|--------------|--|
| 1797 | 0                            | 1589          | [3257]       | 4846   |
| 1798 | 138                          | 1015          | 2666         | 3819   |
| 1799 | 0                            | 873           | 156          | 1029   |
| 1800 | 0                            | 1473          | 218          | 1691   |

Appendix 2.1113 (contd.)

Copenhagen consumption tax ledgers.

Registered gross imports liable to consumption tax.

Fine rye-flour, *lispund*.

| Year | Christians-<br>havns Gate | North<br>Gate | West<br>Gate | Total imports,<br>Christianshavns,<br>North and<br>West Gate |
|------|---------------------------|---------------|--------------|--|
| 1797 | 0                         | 0             | [0]          | 0  |
| 1798 | 0                         | 0             | 317          | 317  |
| 1799 | 0                         | 1             | 3704         | 3705   |
| 1800 | 0                         | 37            | 3629         | 3666   |

Appendix 2.1113 (contd.)

Copenhagen consumption tax ledgers.

Registered gross imports liable to consumption tax.

Rye-flour, barrels.

| Year | East Gate <sup>7)</sup> |
|------|-------------------------|
| 1797 | 1471                    |
| 1798 | 4775                    |
| 1799 | 3949                    |
| 1800 | 2421                    |

1) For some years, only an aggregate figure, covering both imported rye- and barley-flour and rye and barley bread, is entered in the consumption tax ledgers. This is because the import duty was the same for rye and barley, and because the quantity of barrels recorded probably refers not to the volume of the flour and bread but to the amount of grain estimated to have gone into their production, cf. Appendix 2.92. Wherever a distinction is made, rye-flour accounts for most of the imports.

2) Wherever a distinction is made, rye-flour accounts for most of the imports.

3) The sums paid in duty give a conversion factor of 1 barrel =  $10^{2/3}$  *lispund*.

4) See also unsifted rye-flour, sifted rye-flour, fine rye-flour and rye-flour East Gate.

5) Statements in barrels are converted into *lispund* according to the ledger for the Christianshavn Gate in 1797: 1 barrel = 12 *lispund*.

6) Statements in barrels are converted into *lispund*. The sums paid in duty give a conversion factor of 1 barrel = 10 *lispund*.

7) In the East Gate ledgers for 1797-1800, rye flour is not categorised but counted all together as barrels.



Appendix 2.1114

Copenhagen consumption tax ledgers.

Registered gross imports liable to consumption tax.

Barley-flour.

| Year | Christians-<br>havns Gate |               | North Gate |               | West Gate |               |
|------|---------------------------|---------------|------------|---------------|-----------|---------------|
|      | Barrels                   | <i>Lispd.</i> | Barrels    | <i>Lispd.</i> | Barrels   | <i>Lispd.</i> |
| 1789 | 0                         | 64            | 0          | 72            | 0         | 1190          |
| 1790 | 0                         | 90            | 0          | 189           | 0         | 2197          |
| 1791 | 0                         | 78            | 0          | 194           | 0         | 3310          |
| 1792 | 0                         | 112           | 0          | 239           | [0]       | [2727]        |
| 1793 | 0                         | 50            | 0          | 419           | 0         | 2143          |
| 1794 | 0                         | 46            | 0          | 111           | [0]       | [2873]        |
| 1795 | 0                         | 130           | 0          | 233           | [0]       | [3603]        |
| 1796 | 0                         | 115           | 0          | 217           | 0         | 4333          |
| 1797 | 0                         | 2             | 1          | 31            | [0]       | [3524]        |
| 1798 | 61                        | 3             | 1          | 33            | 0         | 2715          |
| 1799 | 50                        | 1             | 1          | 27            | 0         | 3049          |
| 1800 | 5                         | 0             | 26         | 258           | 0         | 13196         |

1) The sums paid in duty give a conversion factor of 1 barrel = 8 *lispund*.

| East Gate |               | Total imports<br>overland <sup>1)</sup> |
|-----------|---------------|---|
| Barrels   | <i>Lispd.</i> | <i>Lispd.</i>                           |
| 0         | 2093          | 3419                                    |
| 0         | 857           | 3333                                    |
| 0         | 256           | 3838                                    |
| 0         | 469           | [3547]                                  |
| 0         | 516           | 3128                                    |
| 0         | 662           | [3692]                                  |
| 0         | 472           | [4438]                                  |
| 0         | 880           | 5545                                    |
| 32        | 106           | [3927]                                  |
| 50        | 0             | 3647                                    |
| 26        | 0             | 3693                                    |
| 332       | 0             | 16358                                   |

Appendix 2.1115

Copenhagen consumption tax ledgers.

Registered gross imports liable to consumption tax.

Rye bread.

| Year | The custom house (harbour) |               | Christianshavns Gate | North Gate        | West Gate     | East Gate     | Total imports <sup>1)</sup> |
|------|----------------------------|---------------|----------------------|-------------------|---------------|---------------|-----------------------------|
|      | Barrels                    | <i>Lispd.</i> | <i>Lispd.</i>        | <i>Lispd.</i>     | <i>Lispd.</i> | <i>Lispd.</i> | <i>Lispd.</i>               |
| 1763 | 55                         | 12            | 130                  | 475 <sup>2)</sup> | 407           | 113           | 1697                        |
| 1764 | 61                         | 2             | 100                  | 654               | 401           | 177           | 1944                        |
| 1765 | 75                         | 9             | 92                   | 382               | 404           | 222           | 1859                        |
| 1766 | 30                         | 1             | 50                   | 555               | 405           | 165           | 1476                        |
| 1767 | 25                         | 0             | 80 <sup>3)</sup>     | 454               | 418           | 116           | 1338                        |
| 1768 | 42                         | 0             | 72                   | 598               | 370           | 152           | 1612                        |
| 1769 | 30                         | 0             | 54                   | 582               | 228           | 190           | 1354                        |

## Appendix 2.1115 (contd.)

Copenhagen consumption tax ledgers.

Registered gross imports liable to consumption tax.

Rye bread, *lispund*.

| Year | Christians-<br>havns Gate | North Gate         | West Gate | East Gate | Total imports<br>overland <sup>4)</sup> |
|------|---------------------------|--------------------|-----------|-----------|---|
| 1770 | 60                        | 650                | 597       | 169       | 1476                                    |
| 1771 | 68                        | 526                | 212       | 139       | 945                                     |
| 1772 | 76                        | 384                | 417       | 181       | 1058                                    |
| 1773 | 52                        | 440                | 404       | 255       | 1151                                    |
| 1774 | 78                        | 446                | 405       | 205       | 1134                                    |
| 1775 | 66                        | 444                | 560       | 179       | 1249                                    |
| 1776 | 65                        | 429 <sup>5)</sup>  | 482       | 231       | 1247                                    |
| 1777 | [59]                      | [486]              | [542]     | [172]     | [1259]                                  |
| 1778 | 52                        | 542                | 601       | 113       | 1308                                    |
| 1779 | [45]                      | [504]              | [621]     | [95]      | [1265]                                  |
| 1780 | [38]                      | 466 <sup>6)</sup>  | 640       | 76        | 1240                                    |
| 1781 | 32                        | 540 <sup>7)</sup>  | 334       | 141       | 1057                                    |
| 1782 | 36                        | 701                | 464       | 173       | 1374                                    |
| 1783 | 36                        | 750 <sup>8)</sup>  | [500]     | 756       | [2062]                                  |
| 1784 | 40                        | 661 <sup>9)</sup>  | 536       | 202       | 1619                                    |
| 1785 | 57                        | 564 <sup>10)</sup> | 556       | 1293      | 2480                                    |
| 1786 | 140                       | 549                | 630       | 2511      | 3830                                    |
| 1787 | 165                       | 1153               | 684       | 3583      | 5585                                    |
| 1788 | 155                       | 2226               | 954       | 7592      | 10927                                   |
| 1789 | 189                       | 2461               | 1066      | 8137      | 11853                                   |
| 1790 | 206                       | 3845               | 824       | 6279      | 11154                                   |
| 1791 | 132                       | 2356               | 1112      | 3075      | 6675                                    |
| 1792 | 109                       | 2428               | [2036]    | 2342      | [6915]                                  |
| 1793 | 79                        | 2621               | 2960      | 3618      | 9278                                    |
| 1794 | 140                       | 2072               | [2944]    | 4433      | [9589]                                  |
| 1795 | 516                       | 2064               | [2928]    | 5623      | [11131]                                 |
| 1796 | 300                       | 1972               | 2913      | 7948      | 13133                                   |
| 1797 | 250                       | 2418               | [3117]    | 6216      | [12001]                                 |
| 1798 | 140                       | 8995               | 3320      | 6015      | 18470                                   |
| 1799 | 327                       | 8647               | 3519      | 5386      | 17879                                   |
| 1800 | 427                       | 12290              | 4536      | 6794      | 24047                                   |

1) The conversion factor used is 1 barrel = 10 *lispund*.

2) + 1 barrel.

3) + 2 barrels.

4) The conversion factor used is 1 barrel = 10 *lispund*.

5) + 4 barrels.

6) + 2 barrels.

7) + 1 barrel.

8) + 2 barrels.

9) + 18 barrels.

10) + 1 barrel.

Appendix 2.1121

Copenhagen consumption tax ledgers.

Registered grain-milling liable to consumption tax.

Wheat for flour, barrels.

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|      |         |      |       |      |                     |
|------|---------|------|-------|------|---------------------|
| 1730 | 23052   | 1754 | 24444 | 1778 | 37009               |
| 1731 | 20949   | 1755 | 28753 | 1779 | 38541               |
| 1732 | [20246] | 1756 | 30372 | 1780 | 46561               |
| 1733 | [19544] | 1757 | 26659 | 1781 | 43853               |
| 1734 | [18841] | 1758 | 24038 | 1782 | 54507               |
| 1735 | 18139   | 1759 | 23798 | 1783 | 44224               |
| 1736 | 16993   | 1760 | 25947 | 1784 | 44469               |
| 1737 | 17829   | 1761 | 28637 | 1785 | 43208               |
| 1738 | 17650   | 1762 | 26470 | 1786 | 44822 <sup>1)</sup> |
| 1739 | 21685   | 1763 | 30128 | 1787 | 47144               |
| 1740 | 19349   | 1764 | 31673 | 1788 | 49510               |
| 1741 | 16977   | 1765 | 25661 | 1789 | 40553               |
| 1742 | 16702   | 1766 | 27850 | 1790 | 34904               |
| 1743 | 22181   | 1767 | 31686 | 1791 | 38494               |
| 1744 | 22356   | 1768 | 31569 | 1792 | 38105               |
| 1745 | 20435   | 1769 | 30887 | 1793 | 39150               |
| 1746 | 21948   | 1770 | 33846 | 1794 | 38006               |
| 1747 | 22730   | 1771 | 32701 | 1795 | 33282               |
| 1748 | 21178   | 1772 | 32341 | 1796 | 35386               |
| 1749 | 23627   | 1773 | 30601 | 1797 | 42997               |
| 1750 | 24024   | 1774 | 27700 | 1798 | 40493               |
| 1751 | 23872   | 1775 | 27009 | 1799 | 39167               |
| 1752 | 26121   | 1776 | 30597 | 1800 | 35496               |
| 1753 | 24618   | 1777 | 33406 |      |                     |

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1) According to table filed with the records from 1788.

## Appendix 2.1122

Copenhagen consumption tax ledgers.

Registered gross imports liable to consumption tax.

Wheaten flour and bread made from wheaten flour<sup>1)</sup>.

| Year | The custom house (harbour) |               | Christianshavns Gate | North Gate        | West Gate     | East Gate        | Total imports <sup>2)</sup> |
|------|----------------------------|---------------|----------------------|-------------------|---------------|------------------|-----------------------------|
|      | Barrels                    | <i>Lispd.</i> | <i>Lispd.</i>        | <i>Lispd.</i>     | <i>Lispd.</i> | <i>Lispd.</i>    | <i>Lispd.</i>               |
| 1730 | [17]                       | [11405]       | 2                    | 117               | 1774          | 19               | [13453]                     |
| 1731 | 0                          | 11553         | 0                    | 141               | 1328          | 20               | 13042                       |
| 1732 | 19                         | 14721         | 0                    | 60                | 552           | 15               | 15500                       |
| 1733 | 32                         | 14816         | 1                    | 69                | 832           | 11               | 15985                       |
| 1734 | 18                         | 12716         | 61                   | 889               | 161           | 11               | 13982                       |
| 1735 | 3                          | 7449          | 2                    | 261               | 639           | 3                | 8378                        |
| 1736 | 0                          | 8213          | 198                  | 20                | 276           | 6                | 8713                        |
| 1737 | 13                         | 10234         | 1                    | 156               | [1087]        | 0                | 11582                       |
| 1738 | 16                         | 15003         | 3                    | 236               | 1898          | 5                | 17273                       |
| 1739 | 11                         | 12115         | 1                    | 19                | [1537]        | 16               | [13776]                     |
| 1740 | 10                         | 9784          | 3                    | 62                | 1175          | 6                | 11110                       |
| 1741 | 19                         | 11119         | 9                    | 962               | 523           | 5                | 12770                       |
| 1742 | 20                         | 18198         | 9                    | 216               | 531           | 10               | 19124                       |
| 1743 | 16                         | 22621         | 0                    | 134               | [370]         | 114              | 23367                       |
| 1744 | 15                         | 21694         | 6                    | 113               | 208           | 105              | 22246                       |
| 1745 | 17                         | 20376         | 9                    | 177               | 531           | 118              | 21347                       |
| 1746 | 16                         | 20841         | 17                   | 62                | 374           | 79               | 21501                       |
| 1747 | 15                         | 28606         | 8                    | 115               | 265           | 145              | 29259                       |
| 1748 | 21                         | 32162         | 19                   | 140               | 264           | 258              | 33011                       |
| 1749 | 15                         | 21011         | 3                    | 166               | 271           | 101              | 21672                       |
| 1750 | 15                         | 18501         | 7                    | 266               | 346           | 77               | 19317                       |
| 1751 | 14                         | 21501         | 9                    | 278               | 360           | 78               | 22338                       |
| 1752 | 13                         | 22022         | 2                    | 343               | 276           | 151              | 22898                       |
| 1753 | 19                         | 23366         | 9                    | 385               | 302           | 98               | 24312                       |
| 1754 | 16                         | 19903         | 2                    | 362               | 301           | 120              | 20816                       |
| 1755 | 17                         | 19965         | 2                    | 240               | 223           | 232              | 20798                       |
| 1756 | 18                         | 17984         | 2                    | 235               | 375           | 144              | 18884                       |
| 1757 | 17                         | 15785         | 4                    | 234               | 363           | 94               | 16616                       |
| 1758 | 16                         | 18487         | 2                    | 291               | 417           | 90               | 19415                       |
| 1759 | 0                          | 16464         | 5                    | 267               | 590           | 107              | 17433                       |
| 1760 | 17                         | 20222         | 9                    | 286               | 691           | 80               | 21424                       |
| 1761 | 21                         | 32102         | 11                   | 440               | 603           | 117              | 33441                       |
| 1762 | 20                         | 30183         | 2                    | 352               | [606]         | 40               | 31343                       |
| 1763 | 2                          | 4786          | 4                    | 304               | 608           | 33               | 5751                        |
| 1764 | 4                          | 4001          | 0                    | 346               | 491           | 99               | 4969                        |
| 1765 | 0                          | 4315          | 5                    | 127 <sup>3)</sup> | 499           | 138              | 5100                        |
| 1766 | 0                          | 4102          | 7                    | 363               | 500           | 51 <sup>4)</sup> | 5079                        |
| 1767 | 0                          | 2363          | 5                    | 515               | 472           | 151              | 3506                        |
| 1768 | 0                          | 3715          | 2                    | 599               | 536           | 299              | 5151                        |
| 1769 | 1                          | 4793          | 91                   | 571               | 523           | 301              | 6287                        |

Footnotes on page 171.

Appendix 2.1122 (contd.)

Copenhagen consumption tax ledgers.

Registered gross imports liable to consumption tax.

Wheaten flour, *lispund*.

| Year                | Christians-<br>havns Gate | North Gate        | West Gate | East Gate          | Total imports<br>overland <sup>5)</sup> |
|---------------------|---------------------------|-------------------|-----------|--------------------|---|
| 1770                | 68                        | 1097              | 569       | 405                | 2139                                    |
| 1771                | 62                        | 1652              | 403       | 1320               | 3437                                    |
| 1772                | 52                        | 328               | 718       | 340                | 1438                                    |
| 1773                | 68                        | 159               | 409       | 121                | 757                                     |
| 1774                | 36                        | 197               | 408       | 133                | 774                                     |
| 1775                | 61                        | 181               | 670       | 150                | 1062                                    |
| 1776                | 58                        | 251               | 1386      | 87                 | 1764                                    |
| 1777                | [33]                      | [331]             | [3534]    | [99]               | [3997]                                  |
| 1778                | 7                         | 411               | 5681      | 110                | 6209                                    |
| 1779                | [16]                      | [429]             | [8576]    | [120]              | [9141]                                  |
| 1780                | [26]                      | 447               | 11471     | 130                | 12074                                   |
| 1781                | 36                        | 605               | 5724      | 533                | 6898                                    |
| 1782                | 16 <sup>a)</sup>          | 200 <sup>7)</sup> | 5759      | 0 <sup>10)</sup>   | 18807                                   |
| 1783                | 87                        | 69 <sup>a)</sup>  | [3112]    | 0 <sup>11)</sup>   | [10284]                                 |
| 1784                | 128                       | 389 <sup>a)</sup> | 464       | 1826               | 3751                                    |
| 1785                | 140                       | 182               | 595       | 327                | 1244                                    |
| 1786                | 55                        | 371               | 430       | 424                | 1280                                    |
| 1787                | 76                        | 245               | 469       | 200 <sup>12)</sup> | 1030                                    |
| 1788                | 125                       | 446               | 613       | 190 <sup>13)</sup> | 1406                                    |
| 1789                | 46                        | 443               | 0         | 204                | 693                                     |
| 1790                | 66                        | 292               | 402       | 290                | 1050                                    |
| 1791                | 111                       | 420               | 643       | 122                | 1296                                    |
| 1792                | 64                        | 211               | [522]     | 91                 | [888]                                   |
| 1793                | 71                        | 163               | 401       | 167                | 802                                     |
| 1794                | 243                       | 490               | [438]     | 332                | [1503]                                  |
| 1795                | 168                       | 119               | [475]     | 293                | [1055]                                  |
| 1796                | 67                        | 205               | 512       | 436                | 1220                                    |
| 1797 <sup>14)</sup> | 8                         | 36                | [73]      | 115                | [232]                                   |

Appendix 2.1122 (contd.)

Copenhagen consumption tax ledgers.

Registered gross imports liable to consumption tax.

Sifted wheaten flour, *lispund*<sup>15)</sup>

| Year | Christians-<br>havns Gate | North Gate | West Gate | Total imports,<br>Christians-<br>havns, North and<br>West Gate |
|------|---------------------------|------------|-----------|--|
| 1797 | 56                        | 269        | [543]     | [868]  |
| 1798 | 100                       | 1245       | 144       | 1489   |
| 1799 | 74                        | 954        | 490       | 1518   |
| 1800 | 178                       | 839        | 939       | 1956   |

Appendix 2.1122 (contd.)

Copenhagen consumption tax ledgers.

Registered gross imports liable to consumption tax.

Fine wheaten flour, *lispund*<sup>16)</sup>.

| Year | Christians-<br>havns Gate | North Gate | West Gate | Total imports,<br>Christians-<br>havns, North and<br>West Gate |
|------|---------------------------|------------|-----------|--|
| 1797 | 14                        | 53         | [112]     | [179]  |
| 1798 | 14                        | 2          | 800       | 816  |
| 1799 | 5                         | 108        | 1048      | 1161   |
| 1800 | 4                         | 229        | 2079      | 2312   |

Appendix 2.1122 (contd.)

Copenhagen consumption tax ledgers.

Registered gross imports liable to consumption tax.

Wheaten flour, barrels.

| Year | East Gate <sup>17)</sup> |
|------|--------------------------|
| 1797 | 233                      |
| 1798 | 1280                     |
| 1799 | 851                      |
| 1800 | 441                      |

1) The quantity of barrels recorded probably does not represent the volume of wheaten flour and wheaten bread but the amount of grain estimated to have gone into their production. The reasons for this are the same as in the case of rye-flour and rye bread, cf. Appendix 2.92.

2) The sums paid in duty give a conversion factor of 1 barrel = 8 *lispund*.

3) + 2 barrels.

4) + 7 barrels.

5) The sums paid in duty give a conversion factor of 1 barrel = 8 *lispund*.

6) + 116 barrels.

7) + 4 barrels.

8) + 160 barrels.

9) + 118 barrels.

10) + 1484 barrels.

11) + 717 barrels.

12) + 5 barrels.

13) + 4 barrels.

14) See also sifted wheaten flour and fine wheaten flour and wheaten flour East Gate.

15) Statements in barrels are converted into *lispund* in accordance with the ordinance of 1/2 1797: 1 barrel = 11 *lispund*.

16) Statements in barrels are converted into *lispund* in accordance with the ordinance of 1/2 1797: 1 barrel = 9 *lispund*.

17) In the East Gate ledgers for 1797–1800, wheaten flour is not categorised as sifted or fine but counted all together as barrels.



## Appendix 2.1123

Copenhagen consumption tax ledgers.

Registered gross imports liable to consumption tax.

Wheaten bread, *lispund*.

| Year               | Christians-<br>havns Gate | North Gate      | West Gate | East Gate | Total imports<br>overland |
|--------------------|---------------------------|-----------------|-----------|-----------|---------------------------|
| 1770               | 0                         | 0 <sup>1)</sup> | 114       | 660       | 774                       |
| 1771               | 0                         | 0 <sup>2)</sup> | 18        | 260       | 278                       |
| 1772               | 0                         | 1067            | 42        | 773       | 1882                      |
| 1773               | 0                         | 166             | 90        | 186       | 442                       |
| 1774               | 0                         | 136             | 92        | 152       | 380                       |
| 1775               | 0                         | 235             | 170       | 177       | 582                       |
| 1776               | 0                         | 289             | 123       | 327       | 739                       |
| 1777               | [0]                       | [259]           | [132]     | [320]     | [711]                     |
| 1778               | 0                         | 229             | 140       | 312       | 681                       |
| 1779               | [0]                       | [231]           | [185]     | [299]     | [715]                     |
| 1780               | [0]                       | 233             | 230       | 285       | 748                       |
| 1781               | 0                         | 282             | 113       | 208       | 603                       |
| 1782               | 0                         | 490             | 124       | 186       | 800                       |
| 1783               | 0                         | 619             | [140]     | 196       | [955]                     |
| 1784               | 13                        | 583             | 156       | 223       | 975                       |
| 1785               | 10                        | 674             | 286       | 646       | 1616                      |
| 1786               | 17                        | 856             | 417       | 1654      | 2944                      |
| 1787               | 20                        | 1415            | 1360      | 1274      | 4069                      |
| 1788               | 23                        | 1887            | 2115      | 1251      | 5276                      |
| 1789               | 21                        | 2184            | 1522      | 1283      | 5010                      |
| 1790               | 20                        | 2932            | 1316      | 1302      | 5570                      |
| 1791               | 26                        | 1861            | 1606      | 862       | 4355                      |
| 1792               | 18                        | 2100            | [2582]    | 607       | [5307]                    |
| 1793               | 22                        | 2362            | 3558      | 475       | 6417                      |
| 1794               | 19                        | 1980            | [3849]    | 526       | [6374]                    |
| 1795               | 27                        | 1573            | [4141]    | 653       | [6394]                    |
| 1796               | 68                        | 1319            | 4433      | 1120      | 6940                      |
| 1797 <sup>3)</sup> | 10                        | 137             | [902]     | 354       | [1403]                    |

## Appendix 2.1123 (contd.)

Copenhagen consumption tax ledgers.

Registered gross imports liable to consumption tax.

Wheaten bread, soft, *lispund*.

| Year | Christians-<br>havns Gate | North Gate | West Gate | East Gate | Total imports<br>overland |
|------|---------------------------|------------|-----------|-----------|---------------------------|
| 1797 | 40                        | 1112       | [3379]    | 725       | [5256]                    |
| 1798 | 54                        | 1570       | 3797      | 919       | 6340                      |
| 1799 | 85                        | 1344       | 4026      | 827       | 6282                      |
| 1800 | 69                        | 1268       | 4725      | 1093      | 7155                      |

Appendix 2.1123 (contd.)

Copenhagen consumption tax ledgers.

Registered gross imports liable to consumption tax.

Wheaten bread, hard, *lispund*.

| Year | Christians-<br>havns Gate | North Gate | West Gate | East Gate | Total imports<br>overland |
|------|---------------------------|------------|-----------|-----------|---------------------------|
| 1797 | 4                         | 198        | [846]     | 268       | [1316]                    |
| 1798 | 4                         | 140        | 2078      | 338       | 2560                      |
| 1799 | 13                        | 224        | 1756      | 313       | 2306                      |
| 1800 | 13                        | 199        | 2666      | 591       | 3469                      |

1) Recorded under rye bread.

2) Probably recorded under rye bread as in the previous year.

3) See also soft wheaten bread and hard wheaten bread.

Appendix 2.1131

Copenhagen consumption tax ledgers.

Registered grain-milling liable to consumption tax.

Bran for flour, barrels.

|      |        |      |     |      |     |
|------|--------|------|-----|------|-----|
| 1730 | 2471   | 1754 | 586 | 1778 | 0   |
| 1731 | 3679   | 1755 | 759 | 1779 | 30  |
| 1732 | [3330] | 1756 | 227 | 1780 | 16  |
| 1733 | [2981] | 1757 | 97  | 1781 | 0   |
| 1734 | [2632] | 1758 | 40  | 1782 | 4   |
| 1735 | 2284   | 1759 | 105 | 1783 | 0   |
| 1736 | 1971   | 1760 | 189 | 1784 | 6   |
| 1737 | 1350   | 1761 | 81  | 1785 | 6   |
| 1738 | 1233   | 1762 | 39  | 1786 | [3] |
| 1739 | 1344   | 1763 | 3   | 1787 | 0   |
| 1740 | 1196   | 1764 | 13  | 1788 | 0   |
| 1741 | 681    | 1765 | 1   | 1789 | 0   |
| 1742 | 566    | 1766 | 46  | 1790 | 0   |
| 1743 | 1010   | 1767 | 87  | 1791 | 0   |
| 1744 | 1512   | 1768 | 24  | 1792 | 0   |
| 1745 | 1481   | 1769 | 38  | 1793 | 0   |
| 1746 | 1462   | 1770 | 14  | 1794 | 0   |
| 1747 | 2041   | 1771 | 59  | 1795 | 0   |
| 1748 | 1744   | 1772 | 0   | 1796 | 0   |
| 1749 | 1461   | 1773 | 12  | 1797 | 0   |
| 1750 | 1763   | 1774 | 16  | 1798 | 0   |
| 1751 | 1904   | 1775 | 21  | 1799 | 0   |
| 1752 | 1812   | 1776 | 0   | 1800 | 0   |
| 1753 | 1246   | 1777 | 20  |      |     |

Appendix 2.1132

Copenhagen consumption tax ledgers.

Registered gross imports liable to consumption tax.

Bran, barrels.

| Year <sup>1)</sup> | Christians-<br>havns Gate | North Gate | West Gate | East Gate | Total imports<br>overland |
|--------------------|---------------------------|------------|-----------|-----------|---------------------------|
| 1785               | 6                         | 69         | 8         | 8         | 91                        |
| 1786               | 0                         | 33         | 0         | 229       | 262                       |
| 1787               | 1                         | 16         | 0         | 214       | 231                       |
| 1788               | 0                         | 79         | 0         | 306       | 385                       |
| 1789               | 1                         | 131        | 0         | 442       | 574                       |
| 1790               | 1                         | 107        | 3         | 466       | 577                       |
| 1791               | 0                         | 90         | 6         | 409       | 505                       |
| 1792               | 0                         | 91         | [3]       | 235       | 329                       |
| 1793               | 0                         | 89         | 0         | 315       | 404                       |
| 1794               | 0                         | 99         | [0]       | 297       | 396                       |
| 1795               | 0                         | 101        | [0]       | 390       | 491                       |
| 1796               | 0                         | 98         | 0         | 480       | 578                       |
| 1797               | 1                         | 110        | [0]       | 403       | 514                       |
| 1798               | 3                         | 119        | 0         | 655       | 777                       |
| 1799               | 6                         | 140        | 0         | 448       | 594                       |
| 1800               | 6                         | 161        | 0         | 481       | 648                       |

<sup>1)</sup> Imports in 1730–84 did not exceed 50 barrels a year.

Appendix 2.121

Copenhagen consumption tax ledgers.

Registered grain-milling liable to consumption tax.

Barley for groats, barrels.

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|      |        |      |      |      |        |
|------|--------|------|------|------|--------|
| 1730 | 1230   | 1754 | 2725 | 1778 | 3306   |
| 1731 | 2329   | 1755 | 2124 | 1779 | 1481   |
| 1732 | [2556] | 1756 | 2566 | 1780 | 815    |
| 1733 | [2783] | 1757 | 4897 | 1781 | 5924   |
| 1734 | [3010] | 1758 | 6500 | 1782 | 6824   |
| 1735 | 3237   | 1759 | 6432 | 1783 | 6132   |
| 1736 | 3207   | 1760 | 5280 | 1784 | 4658   |
| 1737 | 3373   | 1761 | 4983 | 1785 | 4058   |
| 1738 | 3285   | 1762 | 8734 | 1786 | [4079] |
| 1739 | 3008   | 1763 | 1787 | 1787 | 4099   |
| 1740 | 2907   | 1764 | 2624 | 1788 | 4855   |
| 1741 | 3710   | 1765 | 3132 | 1789 | 6318   |
| 1742 | 3189   | 1766 | 2949 | 1790 | 5003   |
| 1743 | 1308   | 1767 | 2705 | 1791 | 5321   |
| 1744 | 2725   | 1768 | 3620 | 1792 | 2409   |
| 1745 | 2318   | 1769 | 4044 | 1793 | 4190   |
| 1746 | 1796   | 1770 | 4725 | 1794 | 3717   |
| 1747 | 2231   | 1771 | 5628 | 1795 | 5159   |
| 1748 | 1988   | 1772 | 4539 | 1796 | 5598   |
| 1749 | 3724   | 1773 | 4412 | 1797 | 4763   |
| 1750 | 2406   | 1774 | 6201 | 1798 | 4231   |
| 1751 | 3395   | 1775 | 3598 | 1799 | 6121   |
| 1752 | 2356   | 1776 | 3467 | 1800 | 7935   |
| 1753 | 1570   | 1777 | 3775 |      |        |

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## Appendix 2.122

Copenhagen consumption tax ledgers.

Registered gross imports liable to consumption tax.

Barley groats, ordinary<sup>1)</sup>, barrels.

| Year | The custom<br>house<br>(habour) | Christians-<br>havns Gate | North Gate | West Gate | East Gate | Total<br>imports |
|------|---------------------------------|---------------------------|------------|-----------|-----------|------------------|
| 1730 | [3174]                          | 137                       | 1338       | 1923      | 140       | [6712]           |
| 1731 | 3411                            | 93                        | 694        | 1437      | 142       | 5777             |
| 1732 | 2971                            | 47                        | 678        | 1026      | 180       | 4902             |
| 1733 | 2915                            | 134                       | 1196       | 1747      | 118       | 6110             |
| 1734 | 1946                            | 69                        | 1258       | 1603      | 90        | 4966             |
| 1735 | 2197                            | 59                        | 760        | 2500      | 36        | 5552             |
| 1736 | 1637                            | 73                        | 566        | 1687      | 44        | 4007             |
| 1737 | 2506                            | 100                       | 1090       | [2423]    | 18        | [6137]           |
| 1738 | 2784                            | 128                       | 1016       | 3158      | 29        | 7115             |
| 1739 | 2941                            | 111                       | 877        | [2865]    | 124       | [6918]           |
| 1740 | 2488                            | 56                        | 1035       | 2571      | 47        | 6197             |
| 1741 | 2770                            | 64                        | 1278       | 2863      | 47        | 7022             |
| 1742 | 2742                            | 113                       | 1422       | 2147      | 72        | 6496             |
| 1743 | 3494                            | 33                        | 965        | [1790]    | 57        | [6339]           |
| 1744 | 3860                            | 50                        | 936        | 1433      | 60        | 6339             |
| 1745 | 3646                            | 39                        | 1391       | 1936      | 57        | 7069             |
| 1746 | 3420                            | 86                        | 986        | 1164      | 61        | 5717             |
| 1747 | 3320                            | 34                        | 2285       | 1160      | 63        | 6862             |
| 1748 | 3658                            | 90                        | 2681       | 1000      | 54        | 7483             |
| 1749 | 3366                            | 46                        | 1406       | 1440      | 121       | 6379             |
| 1750 | 3843                            | 40                        | 1778       | 1257      | 56        | 6974             |
| 1751 | 3893                            | 77                        | 1911       | 992       | 47        | 6920             |
| 1752 | 3012                            | 71                        | 1828       | 978       | 46        | 5935             |
| 1753 | 4020                            | 75                        | 1690       | 1006      | 38        | 6829             |
| 1754 | 2981                            | 41                        | 1799       | 1011      | 19        | 5851             |
| 1755 | 3926                            | 31                        | 1902       | 814       | 37        | 6710             |
| 1756 | 4015                            | 27                        | 2359       | 1242      | 37        | 7680             |
| 1757 | 3891                            | 36                        | 3024       | 869       | 35        | 7855             |
| 1758 | 3845                            | 28                        | 2620       | 1683      | 50        | 8226             |
| 1759 | 4618                            | 15                        | 2298       | 1823      | 38        | 8792             |
| 1760 | 3935                            | 66                        | 32         | 1341      | 7         | 5381             |
| 1761 | 3761                            | 33                        | 1991       | 1969      | 48        | 7802             |
| 1762 | 3861                            | 5                         | 2394       | [1650]    | 7         | [7917]           |
| 1763 | 4660                            | 8                         | 2438       | 1330      | 6         | 8442             |
| 1764 | 4810                            | 8                         | 2016       | 1230      | 15        | 8079             |
| 1765 | 6600                            | 5                         | 1091       | 1231      | 194       | 9121             |
| 1766 | 6353                            | 13                        | 1849       | 1164      | 41        | 9420             |
| 1767 | 5142                            | 5                         | 1638       | 570       | 27        | 7382             |
| 1768 | 8053                            | 100                       | 1929       | 499       | 23        | 10604            |
| 1769 | 5722                            | 625                       | 1804       | 438       | 58        | 8647             |

## Appendix 2.122 (contd.)

Copenhagen consumption tax ledgers.

Registered gross imports liable to consumption tax.

Barley groats, ordinary, barrels.

| Year | Christians-<br>havns Gate | North Gate | West Gate | East Gate | Total imports<br>overland |
|------|---------------------------|------------|-----------|-----------|---------------------------|
| 1770 | 812                       | 1840       | 939       | 12        | 3603                      |
| 1771 | 463                       | 2224       | 818       | 46        | 3551                      |
| 1772 | 313                       | 2096       | 400       | 61        | 2870                      |
| 1773 | 229                       | 1962       | 888       | 294       | 3373                      |
| 1774 | 419                       | 1579       | 666       | 14        | 2678                      |
| 1775 | 351                       | 1483       | 371       | 23        | 2228                      |
| 1776 | 322                       | 1256       | 215       | 22        | 1815                      |
| 1777 | [314]                     | [1237]     | [212]     | [165]     | [1928]                    |
| 1778 | 305                       | 1217       | 209       | 308       | 2039                      |
| 1779 | [362]                     | [1169]     | [180]     | [1288]    | [2999]                    |
| 1780 | [419]                     | 1121       | 151       | 2268      | [3959]                    |
| 1781 | 477                       | 1151       | 74        | 341       | 2043                      |
| 1782 | 443                       | 1131       | 121       | 152       | 1847                      |
| 1783 | 358                       | 1329       | [152]     | 340       | 2179                      |
| 1784 | 74                        | 1399       | 183       | 783       | 2439                      |
| 1785 | 245                       | 1421       | 215       | 1516      | 3397                      |
| 1786 | 801                       | 1338       | 154       | 1111      | 3404                      |
| 1787 | 437                       | 1732       | 201       | 1216      | 3586                      |
| 1788 | 616                       | 1974       | 166       | 2620      | 5376                      |
| 1789 | 561                       | 1779       | 183       | 2346      | 4869                      |
| 1790 | 700                       | 1307       | 265       | 2152      | 4424                      |
| 1791 | 484                       | 1794       | 256       | 1006      | 3540                      |
| 1792 | 706                       | 1527       | [308]     | 1137      | 3678                      |
| 1793 | 787                       | 1621       | 360       | 1009      | 3777                      |
| 1794 | 670                       | 1535       | [564]     | 909       | [3678]                    |
| 1795 | 1204                      | 1746       | [768]     | 722       | [4440]                    |
| 1796 | 708                       | 1415       | 972       | 957       | 4052                      |
| 1797 | 781                       | 1588       | [816]     | 273       | [3458]                    |
| 1798 | 985                       | 1339       | 660       | 532       | 3516                      |
| 1799 | 867                       | 1136       | 862       | 491       | 3356                      |
| 1800 | 783                       | 1182       | 2523      | 294       | 4782                      |

1) Up to 1761 inclusive, "bankebyg" (a sort of barley groats) is included.

## Appendix 2.123

Copenhagen consumption tax ledgers.

Registered gross imports liable to consumption tax.

Special types of groats (*eiergryn*, pearl barley, rice, and after 1762 *bankebyg*), *lispund*.

| Year | The custom house (harbour) | Christianshavns Gate | North Gate | West Gate | East Gate | Total imports |
|------|----------------------------|----------------------|------------|-----------|-----------|---------------|
| 1730 | [6058]                     | 0                    | 1          | 292       | 0         | [6351]        |
| 1731 | 5393                       | 0                    | 3          | 199       | 16        | 5611          |
| 1732 | 7317                       | 0                    | 7          | 249       | 3         | 7576          |
| 1733 | 8799                       | 0                    | 1          | 113       | 0         | 8913          |
| 1734 | 5700                       | 0                    | 10         | 106       | 1         | 5817          |
| 1735 | 6784                       | 0                    | 3          | 71        | 1         | 6859          |
| 1736 | 3786                       | 37                   | 2          | 54        | 0         | 3879          |
| 1737 | 6337                       | 0                    | 0          | [58]      | 0         | 6395          |
| 1738 | 3472                       | 0                    | 0          | 61        | 0         | 3533          |
| 1739 | 8647                       | 0                    | 1          | [49]      | 7         | 8704          |
| 1740 | 6510                       | 0                    | 13         | 36        | 0         | 6559          |
| 1741 | 8418                       | 0                    | 2          | 27        | 0         | 8447          |
| 1742 | 8209                       | 4                    | 1          | 32        | 0         | 8246          |
| 1743 | 9765                       | 0                    | 3          | [49]      | 0         | 9817          |
| 1744 | 10336                      | 0                    | 1          | 66        | 1         | 10404         |
| 1745 | 7391                       | 0                    | 4          | 37        | 0         | 7432          |
| 1746 | 6986                       | 0                    | 1          | 45        | 47        | 7079          |
| 1747 | 5855                       | 0                    | 20         | 39        | 0         | 5914          |
| 1748 | 8179                       | 0                    | 13         | 60        | 0         | 8252          |
| 1749 | 5589                       | 0                    | 0          | 63        | 163       | 5815          |
| 1750 | 10253                      | 0                    | 0          | 55        | 22        | 10330         |
| 1751 | 11264                      | 0                    | 0          | 112       | 0         | 11376         |
| 1752 | 17966                      | 0                    | 2          | 110       | 1         | 18079         |
| 1753 | 7990                       | 0                    | 0          | 243       | 0         | 8233          |
| 1754 | 27880                      | 0                    | 6          | 6         | 0         | 27892         |
| 1755 | 14385                      | 0                    | 0          | 565       | 0         | 14950         |
| 1756 | 18789                      | 0                    | 1          | 199       | 0         | 18989         |
| 1757 | 21679                      | 0                    | 0          | 92        | 0         | 21771         |
| 1758 | 11154                      | 0                    | 0          | 44        | 0         | 11198         |
| 1759 | 12194                      | 1                    | 0          | 51        | 0         | 12246         |
| 1760 | 19679                      | 0                    | 0          | 80        | 0         | 19759         |
| 1761 | 8869                       | 0                    | 0          | 44        | 0         | 8913          |
| 1762 | 9365                       | 0                    | 0          | [338]     | 0         | 9703          |
| 1763 | 14490                      | 0                    | 0          | 632       | 0         | 15122         |
| 1764 | 14362                      | 0                    | 8          | 526       | 1         | 14897         |
| 1765 | 36311                      | 0                    | 2          | 503       | 1         | 36817         |
| 1766 | 20482                      | 0                    | 5          | 504       | 0         | 20991         |
| 1767 | 20983                      | 0                    | 2          | 409       | 0         | 21394         |
| 1768 | 27073                      | 207                  | 0          | 647       | 0         | 27927         |
| 1769 | 20790                      | 1378                 | 6          | 492       | 1         | 22667         |

## Appendix 2.123 (contd.)

Copenhagen consumption tax ledgers.

Registered gross imports liable to consumption tax.

Special types of groats (*eiergryn*, pearl barley, rice, and after 1762 *bankebyg*), *lispund*.

| Year | Christians-<br>havns Gate | North Gate        | West Gate | East Gate          | Total imports<br>overland |
|------|---------------------------|-------------------|-----------|--------------------|---------------------------|
| 1770 | 2464                      | 12                | 1381      | 1                  | 3858                      |
| 1771 | 3238                      | 0                 | 603       | 0                  | 3841                      |
| 1772 | 2246                      | 6                 | 2271      | 1                  | 4524                      |
| 1773 | 1138                      | 29                | 1103      | 719                | 2989                      |
| 1774 | 1195                      | 18                | 1532      | 43                 | 2788                      |
| 1775 | 1061                      | 67                | 821       | 44                 | 1993                      |
| 1776 | 1173                      | 26                | 768       | 253                | 2220                      |
| 1777 | [676]                     | [192]             | [3412]    | [1355]             | [5635]                    |
| 1778 | 178                       | 357               | 6056      | 2456               | 9047                      |
| 1779 | [478]                     | [308]             | [5279]    | [1709]             | [7774]                    |
| 1780 | [778]                     | 259               | 4501      | 962                | [6500]                    |
| 1781 | 1078                      | 3                 | 3182      | 26                 | 4289                      |
| 1782 | 502                       | 238               | 3394      | 606                | 4740                      |
| 1783 | 529                       | 214               | [2173]    | 758                | [3674]                    |
| 1784 | 1943                      | 1075              | 951       | 1303               | 5272                      |
| 1785 | 1950                      | 850               | 3483      | 5072               | 11355                     |
| 1786 | 1681                      | 80                | 2834      | 3747               | 8342                      |
| 1787 | 736                       | 117               | 4768      | 3124               | 8745                      |
| 1788 | 743 <sup>1)</sup>         | 222               | 4155      | 3165               | 8285                      |
| 1789 | 646 <sup>1)</sup>         | 218               | 2590      | 2325               | 5779                      |
| 1790 | 271                       | 219               | 4442      | 3485               | 8417                      |
| 1791 | 484                       | 117               | 5606      | 1996               | 8203                      |
| 1792 | 998                       | 104               | [4850]    | 1819               | [7771]                    |
| 1793 | 3968                      | 510               | 4093      | 2548               | 11119                     |
| 1794 | 622                       | 130               | [5511]    | 2378               | [8641]                    |
| 1795 | 1756                      | 42                | [6930]    | 1703               | [10431]                   |
| 1796 | 3126                      | 71                | 8349      | 1843               | 13389                     |
| 1797 | 2577                      | 229               | [7861]    | 946                | [11613]                   |
| 1798 | 5317                      | 375               | 7372      | 1111               | 14175                     |
| 1799 | 2503                      | 305               | 8812      | 1120               | 12740                     |
| 1800 | 1498 <sup>1)</sup>        | 456 <sup>1)</sup> | 14992     | 1261 <sup>1)</sup> | 18207                     |

1) Statements in barrels are calculated into *lispund* according to the sums paid in duty:1 barrel = 14 *lispund*.



## Appendix 2.13

Copenhagen consumption tax ledgers.

Registered grain-milling liable to consumption tax.

Malt for ale, barrels.

|      | For the bre-<br>wers' gild | For house-<br>hold use <sup>1)</sup> | For the<br>"Brew-<br>house" <sup>2)</sup> | Total   |
|------|----------------------------|--------------------------------------|---|---------|
| 1730 | 60539                      | 5504                                 | 1684                                      | 67727   |
| 1731 | 74393                      | 5593                                 | 1719                                      | 81705   |
| 1732 | [75673]                    | [5297]                               | [1912]                                    | [82882] |
| 1733 | [76952]                    | [5001]                               | [2105]                                    | [84058] |
| 1734 | [78232]                    | [4704]                               | 2298                                      | [85234] |
| 1735 | 79511                      | 4408                                 | 2168                                      | 86087   |
| 1736 | 76643                      | 4184                                 | 1281                                      | 82108   |
| 1737 | 71964                      | 3434                                 | 1390                                      | 76788   |
| 1738 | 73901                      | 3154                                 | 1902                                      | 78957   |
| 1739 | 75487                      | 3334                                 | 2080                                      | 80901   |
| 1740 | 71387                      | 3126                                 | [2000]                                    | 76513   |
| 1741 | 52734                      | 2235                                 | [2000]                                    | 56969   |
| 1742 | 51252                      | 3081                                 | [2000]                                    | 56333   |
| 1743 | 59124                      | 2412                                 | [2000]                                    | 63536   |
| 1744 | 55886                      | 2442                                 | 1912                                      | 60240   |
| 1745 | 58071                      | 2211                                 | [2000]                                    | 62282   |
| 1746 | 54590                      | 2043                                 | [2000]                                    | 58633   |
| 1747 | 52988                      | 3847                                 | [2000]                                    | 58835   |
| 1748 | 52159                      | 3617                                 | [2000]                                    | 57776   |
| 1749 | 52313                      | 3055                                 | [2000]                                    | 57368   |
| 1750 | 56073                      | 3585                                 | [2000]                                    | 61658   |
| 1751 | 54795                      | 3890                                 | [2000]                                    | 60685   |
| 1752 | 58318                      | 1823                                 | 2040                                      | 62181   |
| 1753 | 59765                      | 1685                                 | 1957                                      | 63407   |
| 1754 | 58210                      | 1416                                 | 1881                                      | 61507   |
| 1755 | 59132                      | 1162                                 | 2159                                      | 62453   |
| 1756 | 61866                      | 993                                  | 2708                                      | 65567   |
| 1757 | 58079                      | 1013                                 | 2570                                      | 61662   |
| 1758 | 48705                      | 809                                  | 2758                                      | 52272   |
| 1759 | 51309                      | 967                                  | 2019                                      | 54295   |
| 1760 | 52024                      | 1032                                 | 2585                                      | 55641   |
| 1761 | 54905                      | 1134                                 | 2394                                      | 58433   |
| 1762 | 55332                      | 1433                                 | 2631                                      | 59396   |
| 1763 | 49678                      | 1805                                 | 2737                                      | 54220   |
| 1764 | 48972                      | 1888                                 | 2407                                      | 53267   |
| 1765 | 49463                      | 1422                                 | 2316                                      | 53201   |

Appendix 2.13 (contd.)

Copenhagen consumption tax ledgers.

Registered grain-milling liable to consumption tax.

Malt for ale, barrels.

|      | For the brewers' gild | For household use <sup>1)</sup> | For the "Brew-house" <sup>2)</sup> | Total |
|------|-----------------------|---------------------------------|------------------------------------|-------|
| 1766 | 54344                 | 1467                            | 3021                               | 58832 |
| 1767 | 55900                 | 1367                            | 1825                               | 59092 |
| 1768 | 51884                 | 1423                            | 2090                               | 55397 |
| 1769 | 56365                 | 1225                            | 2477                               | 60067 |
| 1770 | 58484                 | 1284                            | 2027                               | 61795 |
| 1771 | 50988                 | 1206                            | 2155                               | 54349 |
| 1772 | 47018                 | 1256                            | 2546                               | 50820 |
| 1773 | 49614                 | 725                             | 3067                               | 53406 |
| 1774 | 46506                 | 691                             | 2941                               | 50138 |
| 1775 | 55235                 | 917                             | 3195                               | 59347 |
| 1776 | 55005                 | 393                             | 3343                               | 58741 |
| 1777 | 59165                 | 696                             | 3689                               | 63550 |
| 1778 | 64878                 | 1384                            | 4137                               | 70399 |
| 1779 | 74217                 | 1901                            | [4964]                             | 81082 |
| 1780 | 68833                 | 2076                            | 5790                               | 76699 |
| 1781 | 75896                 | 1558                            | 7424                               | 84878 |
| 1782 | 70558                 | 1102                            | 7165                               | 78825 |
| 1783 | 73769                 | 1017                            | 6184                               | 80970 |
| 1784 | 61448                 | 1249                            | 6066                               | 68763 |
| 1785 | 60578                 | 1165                            | 5522                               | 67265 |
| 1786 | 56547                 | [1232]                          | 5192                               | 62971 |
| 1787 | 53802                 | 1299                            | 5602                               | 60703 |
| 1788 | 61304                 | 1236 <sup>3)</sup>              | 6220                               | 68760 |
| 1789 | 59006                 | [1250]                          | 8406                               | 68662 |
| 1790 |                       | 1264                            |                                    | 61611 |
| 1791 | 60718                 | 1398                            | 5742                               | 67858 |
| 1792 | 61026                 | 1406                            | 4528                               | 66960 |
| 1793 | 59024                 | 1467                            | 5136                               | 65627 |
| 1794 | 62072                 | 1704                            | 8362                               | 72138 |
| 1795 | 55970                 | 1868                            | 8478                               | 66316 |
| 1796 | 59710                 | 1995                            | 9716                               | 71421 |
| 1797 | 67326                 | 1762                            | 7894                               | 76982 |
| 1798 |                       |                                 |                                    | 77940 |
| 1799 | 60382                 | 1952                            | 9624                               | 71958 |
| 1800 | 52394                 | 1820                            | 8582                               | 62796 |

1) The term used varies between "malt for free brewers" and "malt for households".

2) In the "Brewhouse" ale was brewed for the Navy.

3) Reckoned as the difference between the total quantity milled in the year and the quantity milled for the brewers' gild and the Brew-house.

Appendix 2.141

Copenhagen consumption tax ledgers.

Registered grain-milling liable to consumption tax.

Malt for distilling, barrels.

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|      |      |      |      |      |       |
|------|------|------|------|------|-------|
| 1730 | 4940 | 1754 | 8535 | 1778 | 9697  |
| 1731 | 5393 | 1755 | 9051 | 1779 | 9872  |
| 1732 |      | 1756 | 7079 | 1780 | 10294 |
| 1733 |      | 1757 | 5857 | 1781 | 10942 |
| 1734 |      | 1758 | 5509 | 1782 | 10718 |
| 1735 | 5957 | 1759 | 5612 | 1783 | 10816 |
| 1736 | 5649 | 1760 | 5831 | 1784 | 10084 |
| 1737 | 5309 | 1761 | 6643 | 1785 | 10500 |
| 1738 | 5259 | 1762 | 6916 | 1786 |       |
| 1739 | 6091 | 1763 | 6052 | 1787 | 9273  |
| 1740 | 6170 | 1764 | 7096 | 1788 | 10021 |
| 1741 | 5891 | 1765 | 6876 | 1789 | 10403 |
| 1742 | 5647 | 1766 | 6367 | 1790 | 10122 |
| 1743 | 6178 | 1767 | 7314 | 1791 | 10414 |
| 1744 | 6777 | 1768 | 7380 | 1792 | 11231 |
| 1745 | 7123 | 1769 | 7906 | 1793 | 10680 |
| 1746 | 6564 | 1770 | 7687 | 1794 | 11311 |
| 1747 | 6524 | 1771 | 6800 | 1795 | 10209 |
| 1748 | 6374 | 1772 | 5965 | 1796 | 11504 |
| 1749 | 6475 | 1773 | 6025 | 1797 | 8676  |
| 1750 | 6607 | 1774 | 8209 | 1798 | 15201 |
| 1751 | 7116 | 1775 | 7370 | 1799 | 13746 |
| 1752 | 7514 | 1776 | 7133 | 1800 | 14110 |
| 1753 | 8185 | 1777 | 8667 |      |       |

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Appendix 2.142

Copenhagen consumption tax ledgers.

Registered grain-milling liable to consumption tax.

Wheat for distilling, barrels.

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|      |       |      |       |      |                     |
|------|-------|------|-------|------|---------------------|
| 1730 | 7502  | 1754 | 30100 | 1778 | 43578               |
| 1731 | 5383  | 1755 | 35459 | 1779 | 48019               |
| 1732 |       | 1756 | 37630 | 1780 | 50500               |
| 1733 |       | 1757 | 22766 | 1781 | 55780               |
| 1734 |       | 1758 | 25033 | 1782 | 58910               |
| 1735 | 1054  | 1759 | 24975 | 1783 | 64468               |
| 1736 | 4255  | 1760 | 29634 | 1784 | 85519               |
| 1737 | 8250  | 1761 | 28389 | 1785 | 60668               |
| 1738 | 6243  | 1762 | 24168 | 1786 | 57948 <sup>1)</sup> |
| 1739 | 7198  | 1763 | 31568 | 1787 | 56076               |
| 1740 | 2326  | 1764 | 24454 | 1788 | 59045               |
| 1741 | 7376  | 1765 | 22843 | 1789 | 58428               |
| 1742 | 14365 | 1766 | 32241 | 1790 | 57846               |
| 1743 | 16284 | 1767 | 27506 | 1791 | 29265               |
| 1744 | 14353 | 1768 | 24330 | 1792 | 62760               |
| 1745 | 11666 | 1769 | 24459 | 1793 | 61940               |
| 1746 | 15531 | 1770 | 32191 | 1794 | 65989               |
| 1747 | 19396 | 1771 | 33458 | 1795 | 62904               |
| 1748 | 16447 | 1772 | 33868 | 1796 | 67005               |
| 1749 | 24025 | 1773 | 31949 | 1797 | 81331               |
| 1750 | 25725 | 1774 | 25609 | 1798 | 82472               |
| 1751 | 25124 | 1775 | 27195 | 1799 | 81684               |
| 1752 | 25792 | 1776 | 34832 | 1800 | 74886               |
| 1753 | 25334 | 1777 | 40189 |      |                     |

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<sup>1)</sup> According to table filed with the records from 1788.

Appendix 2.143

Copenhagen consumption tax ledgers.

Registered grain-milling liable to consumption tax.

Rye for distilling, barrels.

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|      |       |      |       |      |      |
|------|-------|------|-------|------|------|
| 1730 | 8014  | 1754 | 10018 | 1778 | 4670 |
| 1731 | 11554 | 1755 | 609   | 1779 | 2664 |
| 1732 |       | 1756 | 2857  | 1780 | 3645 |
| 1733 |       | 1757 | 10983 | 1781 | 4004 |
| 1734 |       | 1758 | 6566  | 1782 | 1873 |
| 1735 | 18470 | 1759 | 6511  | 1783 | 0    |
| 1736 | 14120 | 1760 | 5232  | 1784 | 0    |
| 1737 | 9201  | 1761 | 9877  | 1785 | 0    |
| 1738 | 11571 | 1762 | 12998 | 1786 |      |
| 1739 | 14758 | 1763 | 5168  | 1787 | 0    |
| 1740 | 16796 | 1764 | 12180 | 1788 | 0    |
| 1741 | 0     | 1765 | 13837 | 1789 | 4    |
| 1742 | 2369  | 1766 | 5463  | 1790 | 0    |
| 1743 | 4567  | 1767 | 12263 | 1791 | 870  |
| 1744 | 10728 | 1768 | 15866 | 1792 | 1847 |
| 1745 | 14977 | 1769 | 14535 | 1793 | 1527 |
| 1746 | 10630 | 1770 | 8550  | 1794 | 945  |
| 1747 | 8716  | 1771 | 1150  | 1795 | 693  |
| 1748 | 10951 | 1772 | 62    | 1796 | 1223 |
| 1749 | 5047  | 1773 | 28    | 1797 | 2859 |
| 1750 | 3608  | 1774 | 6027  | 1798 | 751  |
| 1751 | 5635  | 1775 | 4483  | 1799 | 544  |
| 1752 | 7449  | 1776 | 1588  | 1800 | 24   |
| 1753 | 8348  | 1777 | 4250  |      |      |

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Appendix 2.144

Copenhagen consumption tax ledgers.

Registered grain-milling liable to consumption tax.

Barley for distilling, barrels.

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|      |      |      |      |      |    |
|------|------|------|------|------|----|
| 1730 | 3    | 1754 | 0    | 1778 | 26 |
| 1731 | 7    | 1755 | 0    | 1779 | 7  |
| 1732 |      | 1756 | 10   | 1780 | 10 |
| 1733 |      | 1757 | 1    | 1781 | 1  |
| 1734 |      | 1758 | 4    | 1782 | 24 |
| 1735 | 43   | 1759 | 0    | 1783 | 44 |
| 1736 | 86   | 1760 | 0    | 1784 | 56 |
| 1737 | 33   | 1761 | 0    | 1785 | 63 |
| 1738 | 0    | 1762 | 0    | 1786 |    |
| 1739 | 0    | 1763 | 0    | 1787 | 0  |
| 1740 | 1224 | 1764 | 0    | 1788 |    |
| 1741 | 8906 | 1765 | 1    | 1789 |    |
| 1742 | 2106 | 1766 | 0    | 1790 | 28 |
| 1743 | 107  | 1767 | 0    | 1791 | 0  |
| 1744 | 1    | 1768 | 0    | 1792 | 0  |
| 1745 | 5    | 1769 | 0    | 1793 | 0  |
| 1746 | 17   | 1770 | 0    | 1794 | 0  |
| 1747 | 0    | 1771 | 658  | 1795 | 0  |
| 1748 | 10   | 1772 | 496  | 1796 | 0  |
| 1749 | 0    | 1773 | 299  | 1797 | 0  |
| 1750 | 7    | 1774 | 789  | 1798 |    |
| 1751 | 2    | 1775 | 1569 | 1799 | 0  |
| 1752 | 1    | 1776 | 242  | 1800 | 86 |
| 1753 | 0    | 1777 | 0    |      |    |

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Appendix 2.145

Copenhagen consumption tax ledgers.

Registered sugar sirup for destilling, barrels<sup>1)</sup>.

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|      |   |      |      |      |                    |
|------|---|------|------|------|--------------------|
| 1730 | 0 | 1754 | 0    | 1778 | 956                |
| 1731 | 0 | 1755 | 0    | 1779 | 1062               |
| 1732 |   | 1756 | 0    | 1780 | 1010               |
| 1733 |   | 1757 | 601  | 1781 | 1156               |
| 1734 |   | 1758 | 1635 | 1782 | 878                |
| 1735 | 0 | 1759 | 2432 | 1783 | 906                |
| 1736 | 0 | 1760 | 2142 | 1784 | 873                |
| 1737 | 0 | 1761 | 2554 | 1785 | 1316 <sup>2)</sup> |
| 1738 | 0 | 1762 | 2103 | 1786 |                    |
| 1739 | 0 | 1763 | 1935 | 1787 | 1395               |
| 1740 | 0 | 1764 | 1920 | 1788 | 1307               |
| 1741 | 0 | 1765 | 2136 | 1789 | 951                |
| 1742 | 0 | 1766 | 1796 | 1790 | 0                  |
| 1743 | 0 | 1767 | 1720 | 1791 | 0                  |
| 1744 | 0 | 1768 | 2207 | 1792 | 831                |
| 1745 | 0 | 1769 | 2196 | 1793 | 836                |
| 1746 | 0 | 1770 | 1630 | 1794 | 1082               |
| 1747 | 0 | 1771 | 1785 | 1795 | 844                |
| 1748 | 0 | 1772 | 1997 | 1796 | 617                |
| 1749 | 0 | 1773 | 1509 | 1797 | 851                |
| 1750 | 0 | 1774 | 1609 | 1798 | 1004               |
| 1751 | 0 | 1775 | 1710 | 1799 | 839                |
| 1752 | 0 | 1776 | 1653 | 1800 | 919                |
| 1753 | 0 | 1777 | 1355 |      |                    |

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<sup>1)</sup> 1 barrel sugar-syrup (*sukkervand*) is 136 *potter*, cf. ordinance of 17/5 1762.

<sup>2)</sup> The ledger-entry shows 1315  $\frac{1}{2}$  *baller*, which has been taken as a transcription error for 1315  $\frac{1}{2}$  barrels.

Appendix 2.146

Copenhagen consumption tax ledgers.

Registered skim-sugar <sup>1)</sup> for distilling, *baller*<sup>2)</sup>).

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|      |   |      |                    |      |     |
|------|---|------|--------------------|------|-----|
| 1730 | 0 | 1754 | 0                  | 1778 | 185 |
| 1731 | 0 | 1755 | 0                  | 1779 | 179 |
| 1732 |   | 1756 | 0                  | 1780 | 228 |
| 1733 |   | 1757 | 229                | 1781 | 495 |
| 1734 |   | 1758 | 615                | 1782 | 617 |
| 1735 | 0 | 1759 | 945                | 1783 | 514 |
| 1736 | 0 | 1760 | 822                | 1784 | 562 |
| 1737 | 0 | 1761 | 667                | 1785 | 929 |
| 1738 | 0 | 1762 | 702                | 1786 |     |
| 1739 | 0 | 1763 | 676                | 1787 | 561 |
| 1740 | 0 | 1764 | 1012               | 1788 | 386 |
| 1741 | 0 | 1765 | 1569 <sup>3)</sup> | 1789 | 719 |
| 1742 | 0 | 1766 | 1335               | 1790 | 0   |
| 1743 | 0 | 1767 | 1417               | 1791 | 0   |
| 1744 | 0 | 1768 | 1644               | 1792 | 306 |
| 1745 | 0 | 1769 | 1352               | 1793 | 398 |
| 1746 | 0 | 1770 | 1070               | 1794 | 394 |
| 1747 | 0 | 1771 | 950                | 1795 | 46  |
| 1748 | 0 | 1772 | 948                | 1796 | 53  |
| 1749 | 0 | 1773 | 508                | 1797 | 61  |
| 1750 | 0 | 1774 | 423                | 1798 | 21  |
| 1751 | 0 | 1775 | 497                | 1799 | 0   |
| 1752 | 0 | 1776 | 477                | 1800 | 0   |
| 1753 | 0 | 1777 | 329                |      |     |

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<sup>1)</sup> A byproduct skimmed from the surface of the refining vate.

<sup>2)</sup> 1 *balle* of skim-sugar is 102 *potter*, cf. ordinance of 17/5 1762.

<sup>3)</sup> The ledger-entry shows 1569 barrels, which has been taken as a transcription error for 1569 *baller*.



Appendix 2.15

Copenhagen consumption tax ledgers.

Registered grain-milling liable to consumption tax.

Malt for vinegar, barrels.

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|      |     |      |     |      |     |
|------|-----|------|-----|------|-----|
| 1730 | 29  | 1754 | 223 | 1778 | 351 |
| 1731 | 27  | 1755 | 299 | 1779 | 540 |
| 1732 |     | 1756 | 287 | 1780 | 505 |
| 1733 |     | 1757 | 266 | 1781 | 537 |
| 1734 |     | 1758 | 260 | 1782 | 478 |
| 1735 | 59  | 1759 | 227 | 1783 | 498 |
| 1736 | 76  | 1760 | 226 | 1784 | 566 |
| 1737 | 88  | 1761 | 273 | 1785 | 418 |
| 1738 | 88  | 1762 | 255 | 1786 |     |
| 1739 | 102 | 1763 | 232 | 1787 | 427 |
| 1740 | 145 | 1764 | 262 | 1788 | 520 |
| 1741 | 96  | 1765 | 253 | 1789 | 483 |
| 1742 | 93  | 1766 | 301 | 1790 | 502 |
| 1743 | 60  | 1767 | 290 | 1791 | 486 |
| 1744 | 70  | 1768 | 318 | 1792 | 498 |
| 1745 | 48  | 1769 | 292 | 1793 | 569 |
| 1746 | 38  | 1770 | 347 | 1794 | 598 |
| 1747 | 76  | 1771 | 279 | 1795 | 710 |
| 1748 | 119 | 1772 | 331 | 1796 | 700 |
| 1749 | 180 | 1773 | 250 | 1797 | 443 |
| 1750 | 177 | 1774 | 321 | 1798 | 544 |
| 1751 | 158 | 1775 | 334 | 1799 | 555 |
| 1752 | 160 | 1776 | 408 | 1800 | 485 |
| 1753 | 236 | 1777 | 393 |      |     |

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## Appendix 2.211

Copenhagen consumption tax ledgers.

Registered gross imports liable to consumption tax.

Dried and split peas, barrels.

| Year | The custom house (harbour) | Christianshavns Gate | North Gate | West Gate          | East Gate | Total imports |
|------|----------------------------|----------------------|------------|--------------------|-----------|---------------|
| 1730 | [2141]                     | 17                   | 274        | 2998               | 16        | [5446]        |
| 1731 | 1872                       | 22                   | 451        | 3002               | 105       | 5452          |
| 1732 | 1943                       | 19                   | 383        | 3195 <sup>1)</sup> | 79        | 5619          |
| 1733 | 2013                       | 8                    | 125        | 2945               | 23        | 5114          |
| 1734 | 1973                       | 17                   | 361        | 2822               | 43        | 5216          |
| 1735 | 2599                       | 8                    | 107        | 3388               | 9         | 6111          |
| 1736 | 4077                       | 7                    | 122        | 4267               | 6         | 8479          |
| 1737 | 2983                       | 3                    | 67         | [4694]             | 3         | [7750]        |
| 1738 | 2081                       | 12                   | 160        | 5120               | 10        | 7383          |
| 1739 | 1301                       | 7                    | 51         | [4886]             | 28        | [6273]        |
| 1740 | 1684                       | 17                   | 131        | 4651               | 8         | 6491          |
| 1741 | 3716                       | 30                   | 390        | 5040               | 18        | 9194          |
| 1742 | 3352                       | 22                   | 218        | 4020               | 25        | 7637          |
| 1743 | 4258                       | 7                    | 202        | [4725]             | 18        | [9210]        |
| 1744 | 1909                       | 17                   | 265        | 5429               | 26        | 7646          |
| 1745 | 2303                       | 32                   | 407        | 6031               | 16        | 8789          |
| 1746 | 2482                       | 27                   | 371        | 6902               | 15        | 9797          |
| 1747 | 2228                       | 16                   | 354        | 6393               | 29        | 9020          |
| 1748 | 2390                       | 9                    | 372        | 4920               | 37        | 7728          |
| 1749 | 1671                       | 9                    | 387        | 5098               | 37        | 7202          |
| 1750 | 1432                       | 9                    | 342        | 7007               | 42        | 8832          |
| 1751 | 1291                       | 2                    | 264        | 5366               | 29        | 6952          |
| 1752 | 1096                       | 5                    | 366        | 5874               | 38        | 7379          |
| 1753 | 1120                       | 10                   | 185        | 4078               | 20        | 5413          |
| 1754 | 1391                       | 5                    | 423        | 4064               | 33        | 5916          |
| 1755 | 1452                       | 7                    | 81         | 5963               | 10        | 7513          |
| 1756 | 1122                       | 9                    | 173        | 5707               | 12        | 7023          |
| 1757 | 1288                       | 12                   | 92         | 7192               | 7         | 8591          |
| 1758 | 1430                       | 9                    | 136        | 7861               | 14        | 9450          |
| 1759 | 2855                       | 15                   | 104        | 11151              | 8         | 14133         |
| 1760 | 1242                       | 14                   | 159        | 6899               | 8         | 8322          |
| 1761 | 2492                       | 6                    | 226        | 9061               | 20        | 11805         |
| 1762 | 2462                       | 11                   | 349        | [7753]             | 17        | [10592]       |
| 1763 | 1543 <sup>2)</sup>         | 23                   | 283        | 6445               | 16        | 8310          |
| 1764 | 1403 <sup>2)</sup>         | 19                   | 673        | 8696               | 36        | 10827         |
| 1765 | 2652 <sup>2)</sup>         | 3                    | 711        | 8937               | 42        | 12345         |
| 1766 | 2345 <sup>2)</sup>         | 5                    | 1509       | 6902               | 26        | 10787         |
| 1767 | 2127 <sup>2)</sup>         | 0                    | 1030       | 6893               | 22        | 10072         |
| 1768 | 2346 <sup>2)</sup>         | 5                    | 1090       | 6439               | 53        | 9933          |
| 1769 | 2966 <sup>2)</sup>         | 4                    | 605        | 4649               | 26        | 8250          |

Appendix 2.211 (contd.)

Copenhagen consumption tax ledgers.

Registered gross imports liable to consumption tax.

Dried and split peas, barrels.

| Year | Christians-<br>havns Gate | North Gate | West Gate | East Gate | Total imports<br>overland |
|------|---------------------------|------------|-----------|-----------|---------------------------|
| 1770 | 2                         | 360        | 6687      | 7         | 7056                      |
| 1771 | 1                         | 322        | 9458      | 18        | 9799                      |
| 1772 | 12                        | 277        | 5364      | 26        | 5679                      |
| 1773 | 2                         | 563        | 6937      | 42        | 7544                      |
| 1774 | 2                         | 547        | 6879      | 71        | 7499                      |
| 1775 | 1                         | 554        | 9338      | 24        | 9917                      |
| 1776 | 2                         | 424        | 8761      | 31        | 9218                      |
| 1777 | [3]                       | [778]      | [8381]    | [42]      | [9204]                    |
| 1778 | 3                         | 1132       | 8001      | 52        | 9188                      |
| 1779 | [2]                       | [947]      | [8601]    | [51]      | [9601]                    |
| 1780 | [1]                       | 761        | 9201      | 49        | 10012                     |
| 1781 | 1                         | 343        | 4277      | 16        | 4637                      |
| 1782 | 2                         | 453        | 3785      | 40        | 4280                      |
| 1783 | 4                         | 343        | [3385]    | 40        | [3772]                    |
| 1784 | 9                         | 362        | 2984      | 64        | 3419                      |
| 1785 | 2                         | 338        | 2802      | 12        | 3154                      |
| 1786 | 14                        | 298        | 3674      | 15        | 4001                      |
| 1787 | 12                        | 319        | 5688      | 37        | 6056                      |
| 1788 | 104                       | 198        | 8494      | 37        | 8833                      |
| 1789 | 1                         | 133        | 5717      | 18        | 5869                      |
| 1790 | 8                         | 144        | 4943      | 14        | 5109                      |
| 1791 | 37                        | 145        | 6251      | 33        | 6466                      |
| 1792 | 34                        | 177        | [6585]    | 17        | [6813]                    |
| 1793 | 24                        | 319        | 6919      | 62        | 7324                      |
| 1794 | 51                        | 195        | [7623]    | 20        | [7889]                    |
| 1795 | 41                        | 279        | [8327]    | 63        | [8710]                    |
| 1796 | 16                        | 370        | 9031      | 102       | 9519                      |
| 1797 | 35                        | 1127       | [8231]    | 134       | [9527]                    |
| 1798 | 7                         | 342        | 7431      | 130       | 7910                      |
| 1799 | 7                         | 186        | 5949      | 32        | 6174                      |
| 1800 | 18                        | 400        | 7023      | 53        | 7494                      |

1) Embraces both peas and beans.

2) In 1763-69 the Copenhagen custom house figures include lentils.

Appendix 2.212

Copenhagen consumption tax ledgers.

Registered gross imports liable to consumption tax.

Green peas in pod, barrels.

| Year                                   | The custom house (harbour) | Christianshavns Gate | North Gate | West Gate | East Gate | Total imports |
|--|----------------------------|----------------------|------------|-----------|-----------|---------------|
| 1762 <sup>1/0</sup> - <sup>31/12</sup> | 0                          | 0                    | 5          | [0]       | 0         | 5             |
| 1763                                   | 0                          | 0                    | 97         | 4814      | 0         | 4911          |
| 1764                                   | 0                          | 0                    | 2367       | 2102      | 129       | 4598          |
| 1765                                   | 0                          | 0                    | 63         | 4204      | 110       | 4377          |
| 1766                                   | 0                          | 0                    | 260        | 4208      | 23        | 4491          |
| 1767                                   | 0                          | 0                    | 343        | 5742      | 40        | 6125          |
| 1768                                   | 0                          | 0                    | 301        | 7115      | 37        | 7453          |
| 1769                                   | 0                          | 0                    | 238        | 4346      | 53        | 4637          |

## Appendix 2.212 (contd.)

Copenhagen consumption tax ledgers.

Registered gross imports liable to consumption tax.

Green peas in pod, barrels.

| Year | Christians-<br>havns Gate | North Gate | West Gate | East Gate | Total imports<br>overland |
|------|---------------------------|------------|-----------|-----------|---------------------------|
| 1770 | 0                         | 166        | 5698      | 34        | 5898                      |
| 1771 | 0                         | 84         | 5689      | 22        | 5795                      |
| 1772 | 0                         | 179        | 5782      | 23        | 5984                      |
| 1773 | 0                         | 580        | 4204      | 21        | 4805                      |
| 1774 | 0                         | 263        | 4208      | 42        | 4513                      |
| 1775 | 0                         | 200        | 8000      | 30        | 8230                      |
| 1776 | 0                         | 210        | 9300      | 37        | 9547                      |
| 1777 | [0]                       | [1339]     | [9451]    | [53]      | [10843]                   |
| 1778 | 0                         | 2468       | 9602      | 69        | 12139                     |
| 1779 | [0]                       | [2668]     | [8457]    | [43]      | [11168]                   |
| 1780 | [0]                       | 2868       | 7312      | 16        | 10196                     |
| 1781 | 0                         | 383        | 6405      | 36        | 6824                      |
| 1782 | 4                         | 411        | 7313      | 92        | 7820                      |
| 1783 | 0                         | 401        | [7332]    | 0         | [7733]                    |
| 1784 | 0                         | 945        | 7350      | 0         | 8295                      |
| 1785 | 0                         | 1158       | 5480      | 0         | 6638                      |
| 1786 | 0                         | 203        | 7355      | 29        | 7587                      |
| 1787 | 1                         | 461        | 9112      | 43        | 9617                      |
| 1788 | 0                         | 740        | 10415     | 41        | 11196                     |
| 1789 | 0                         | 1164       | 7014      | 31        | 8209                      |
| 1790 | 1                         | 414        | 9212      | 59        | 9686                      |
| 1791 | 1                         | 701        | 18024     | 48        | 18774                     |
| 1792 | 0                         | 691        | [16952]   | 45        | [17688]                   |
| 1793 | 0                         | 705        | 15880     | 54        | 16639                     |
| 1794 | 0                         | 512        | [17695]   | 56        | [18263]                   |
| 1795 | 1                         | 427        | [19510]   | 26        | [19964]                   |
| 1796 | 1                         | 312        | 21326     | 73        | 21712                     |
| 1797 | 2                         | 1918       | [22227]   | 37        | [24184]                   |
| 1798 | 0                         | 1775       | 23127     | 51        | 24953                     |
| 1799 | 0                         | 1384       | 18968     | 29        | 20381                     |
| 1800 | 0                         | 1696       | 21928     | 54        | 23678                     |

## Appendix 2.22

Copenhagen consumption tax ledgers.  
Registered gross imports liable to consumption tax.  
Turnips, swedes and potatoes<sup>1)</sup>, barrels.

| Year | The custom house (harbour) | Christianshavns Gate | North Gate | West Gate | East Gate | Total imports |
|------|----------------------------|----------------------|------------|-----------|-----------|---------------|
| 1730 | [42]                       | 13958                | 17         | 26        | 5         | 14048         |
| 1731 | 46                         | 10212                | 2          | 13        | 1         | 10274         |
| 1732 | 87                         | 10951                | 15         | 23        | 10        | 11086         |
| 1733 | 98                         | 10849                | 2          | 29        | 2         | 10980         |
| 1734 | 102                        | 11383                | 6          | 29        | 2         | 11522         |
| 1735 | 47                         | 12360                | 24         | 27        | 8         | 12466         |
| 1736 | 54                         | 10910                | 10         | 127       | 4         | 11105         |
| 1737 | 49                         | 10204                | 28         | [79]      | 2         | 10362         |
| 1738 | 46                         | 12399                | 19         | 31        | 19        | 12514         |
| 1739 | 90                         | 11107                | 7          | [21]      | 13        | 11238         |
| 1740 | 56                         | 13106                | 33         | 11        | 18        | 13224         |
| 1741 | 86                         | 12745                | 19         | 18        | 14        | 12882         |
| 1742 | 74                         | 13545                | 26         | 45        | 30        | 13720         |
| 1743 | 77                         | 13664                | 17         | [36]      | 27        | 13821         |
| 1744 | 63                         | 15165                | 21         | 27        | 42        | 15318         |
| 1745 | 100                        | 8144                 | 30         | 21        | 19        | 8314          |
| 1746 | 122                        | 13176                | 50         | 20        | 36        | 13404         |
| 1747 | 59                         | 12727                | 32         | 17        | 32        | 12867         |
| 1748 | 144                        | 13751                | 56         | 59        | 35        | 14045         |
| 1749 | 115                        | 15033                | 60         | 50        | 31        | 15289         |
| 1750 | 108                        | 13104                | 36         | 30        | 22        | 13300         |
| 1751 | 120                        | 13972                | 55         | 36        | 32        | 14215         |
| 1752 | 24                         | 10691                | 81         | 52        | 30        | 10878         |
| 1753 | 151                        | 12146                | 76         | 55        | 50        | 12478         |
| 1754 | 133                        | 13094                | 75         | 88        | 51        | 13441         |
| 1755 | 121                        | 9404                 | 82         | 45        | 51        | 9703          |
| 1756 | 127                        | 9938                 | 96         | 59        | 64        | 10284         |
| 1757 | 145                        | 10036                | 93         | 76        | 51        | 10401         |
| 1758 | 152                        | 9341                 | 90         | 22        | 60        | 9665          |
| 1759 | 125                        | 8377                 | 53         | 89        | 39        | 8683          |
| 1760 | 132                        | 10094                | 82         | 109       | 63        | 10480         |
| 1761 | 149                        | 9792                 | 122        | 153       | 106       | 10322         |
| 1762 | 246                        | 8014                 | 342        | [181]     | 293       | 9076          |
| 1763 | 229                        | 10180                | 385        | 208       | 275       | 11277         |
| 1764 | 341                        | 10990                | 514        | 176       | 355       | 12376         |
| 1765 | 138                        | 8892                 | 491        | 177       | 377       | 10075         |
| 1766 | 281                        | 10200                | 646        | 535       | 436       | 12098         |
| 1767 | 533                        | 9530                 | 615        | 133       | 343       | 11154         |
| 1768 | 163                        | 8594                 | 657        | 176       | 452       | 10042         |
| 1769 | 258                        | 8014                 | 748        | 62        | 388       | 9470          |

## Appendix 2.22 (contd.)

Copenhagen consumption tax ledgers.

Registered gross imports liable to consumption tax.

Turnips, swedes and potatoes<sup>1)</sup>, barrels.

| Year | Christians-<br>havns Gate | North Gate           | West Gate           | East Gate          | Total imports<br>overland |
|------|---------------------------|----------------------|---------------------|--------------------|---------------------------|
| 1770 | 7469                      | 738                  | 197                 | 523                | 8927                      |
| 1771 | 8192                      | 829                  | 137                 | 461                | 9619                      |
| 1772 | 8106                      | 1063                 | 248                 | 1025               | 10442                     |
| 1773 | 8054                      | 1635                 | 277                 | 1170               | 11136                     |
| 1774 | 8186                      | 1830                 | 178                 | 1669               | 11863                     |
| 1775 | 8770                      | 1249                 | 421                 | 1048               | 11488                     |
| 1776 | 5837                      | 1297                 | 532                 | 1101               | 8767                      |
| 1777 | [6946]                    | [1185]               | [390]               | [957]              | [9478]                    |
| 1778 | 8055                      | 1073                 | 248                 | 812                | 10188                     |
| 1779 | [8727]                    | [1137]               | [213]               | [708]              | [10785]                   |
| 1780 | [9399]                    | 1201                 | 177                 | 603                | [11380]                   |
| 1781 | 10071 <sup>2)</sup>       | 2136                 | 216                 | 346                | 12769                     |
| 1782 | 11455 <sup>3)</sup>       | 2713                 | 262                 | 465                | 14895                     |
| 1783 | 10106 <sup>4)</sup>       | 2985                 | [678]               | 231                | 14000                     |
| 1784 | 13448 <sup>5)</sup>       | 3767                 | 1093 <sup>6)</sup>  | 208                | 18516                     |
| 1785 | 12222 <sup>5)</sup>       | 3663                 | 1232 <sup>7)</sup>  | 982                | 18099                     |
| 1786 | 14649 <sup>5)</sup>       | 4694                 | 1118 <sup>8)</sup>  | 3831               | 24292                     |
| 1787 | 18339 <sup>5)</sup>       | 5953 <sup>9)</sup>   | 1627 <sup>10)</sup> | 2995 <sup>5)</sup> | 28914                     |
| 1788 | 18878 <sup>5)</sup>       | 4491 <sup>11)</sup>  | 1780 <sup>12)</sup> | 3776 <sup>5)</sup> | 28925                     |
| 1789 | 16824 <sup>5)</sup>       | 3743 <sup>13)</sup>  | 1794 <sup>14)</sup> | 3733               | 26094                     |
| 1790 | 18719 <sup>5)</sup>       | 11884 <sup>15)</sup> | 1841 <sup>10)</sup> | 2643 <sup>5)</sup> | 35087                     |
| 1791 | 18026                     | 8832 <sup>17)</sup>  | 5041 <sup>18)</sup> | 2234               | 34133                     |
| 1792 | 15398                     | 7827 <sup>10)</sup>  | [5393]              | 2923               | [31541]                   |
| 1793 | 17268                     | 8176 <sup>20)</sup>  | 5744 <sup>21)</sup> | 2772 <sup>5)</sup> | 33960                     |
| 1794 | 15676                     | 7422 <sup>22)</sup>  | [5774]              | 3089               | [31999]                   |
| 1795 | 15650                     | 4782 <sup>23)</sup>  | [5804]              | 4348               | [30584]                   |
| 1796 | 17059                     | 3435 <sup>24)</sup>  | 5835 <sup>25)</sup> | 9146               | 35475                     |
| 1797 | 18336                     | 7016 <sup>26)</sup>  | [6094]              | 4526               | [35972]                   |
| 1798 | 17487                     | 7445 <sup>27)</sup>  | 6353 <sup>28)</sup> | 4036               | 35321                     |
| 1799 | 14412 <sup>5)</sup>       | 4706 <sup>29)</sup>  | 6177 <sup>30)</sup> | 4775               | 30070                     |
| 1800 | 15391 <sup>5)</sup>       | 3780 <sup>31)</sup>  | 5850 <sup>32)</sup> | 4782               | 29803                     |

1) Potatoes are mentioned for the first time in 1781.

2) Of which 78 barrels potatoes.

3) Of which 116 barrels potatoes.

4) Of which 136 barrels potatoes.

5) Potatoes are mentioned but the quantity is not specified.

6) Of which 155 barrels potatoes.

7) Of which 576 barrels potatoes.

8) Of which 650 barrels potatoes.

9) Of which 4873 barrels potatoes.

10) Of which 984 barrels potatoes.

11) Of which 3160 barrels potatoes.

12) Of which 1053 barrels potatoes.

13) Of which 1937 barrels potatoes.

14) Of which 986 barrels potatoes.

15) Of which 6718 barrels potatoes.

16) Of which 1007 barrels potatoes.

17) Of which 4820 barrels potatoes.

18) Of which 4216 barrels potatoes.

19) Of which 5893 barrels potatoes.

20) Of which 6004 barrels potatoes.

21) Of which 4909 barrels potatoes.

22) Of which 5884 barrels potatoes.

23) Of which 4229 barrels potatoes.

24) Of which 2970 barrels potatoes.

25) Of which 4978 barrels potatoes.

26) Of which 6400 barrels potatoes.

27) Of which 5999 barrels potatoes.

28) Of which 5457 barrels potatoes.

29) Of which 3471 barrels potatoes.

30) Of which 5298 barrels potatoes.

31) Of which 2850 barrels potatoes.

32) Of which 5027 barrels potatoes.

## Appendix 2.231

Copenhagen consumption tax ledgers.

Registered gross imports liable to consumption tax.

Kale, loads.

| Year | The custom<br>house<br>(harbour) | Christians-<br>havns Gate | North<br>Gate | West<br>Gate | East<br>Gate | Total imports |
|------|----------------------------------|---------------------------|---------------|--------------|--------------|---------------|
| 1730 | [0]                              | 6201                      | 7             | 16           | 23           | 6247          |
| 1731 | 0                                | 4660                      | 16            | 5            | 21           | 4702          |
| 1732 | 0                                | 4893                      | 8             | 6            | 15           | 4922          |
| 1733 | 1                                | 4583                      | 7             | 6            | 34           | 4631          |
| 1734 | 0                                | 5189                      | 7             | 6            | 15           | 5217          |
| 1735 | 0                                | 5331                      | 8             | 7            | 15           | 5361          |
| 1736 | 0                                | 4702                      | 14            | 15           | 11           | 4742          |
| 1737 | 0                                | 4492                      | 15            | [8]          | 16           | 4531          |
| 1738 | 0                                | 4709                      | 28            | 0            | 48           | 4785          |
| 1739 | 0                                | 4410                      | 9             | [1]          | 30           | 4450          |
| 1740 | 0                                | 4250                      | 22            | 2            | 29           | 4303          |
| 1741 | 1                                | 4484                      | 32            | 13           | 38           | 4568          |
| 1742 | 0                                | 5446                      | 37            | 32           | 25           | 5540          |
| 1743 | 0                                | 5802                      | 21            | [28]         | 29           | 5880          |
| 1744 | 0                                | 5408                      | 17            | 23           | 13           | 5461          |
| 1745 | 0                                | 4574                      | 16            | 8            | 17           | 4615          |
| 1746 | 0                                | 4951                      | 27            | 27           | 34           | 5039          |
| 1747 | 0                                | 4624                      | 18            | 27           | 30           | 4699          |
| 1748 | 0                                | 4350                      | 30            | 25           | 36           | 4441          |
| 1749 | 0                                | 5445                      | 35            | 34           | 42           | 5556          |
| 1750 | 0                                | 5906                      | 20            | 15           | 35           | 5976          |
| 1751 | 0                                | 4894                      | 31            | 19           | 37           | 4981          |
| 1752 | 0                                | 5089                      | 20            | 16           | 34           | 5159          |
| 1753 | 0                                | 5272                      | 16            | 8            | 36           | 5332          |
| 1754 | 0                                | 5309                      | 21            | 12           | 33           | 5375          |
| 1755 | 0                                | 4758                      | 24            | 32           | 28           | 4842          |
| 1756 | 0                                | 4736                      | 30            | 4            | 33           | 4803          |
| 1757 | 0                                | 5400                      | 17            | 32           | 25           | 5474          |
| 1758 | 0                                | 4805                      | 35            | 22           | 50           | 4912          |
| 1759 | 0                                | 4587                      | 21            | 30           | 25           | 4663          |
| 1760 | 0                                | 3446                      | 23            | 52           | 31           | 3552          |
| 1761 | 0                                | 3710                      | 30            | 35           | 45           | 3820          |
| 1762 | 2                                | 2990                      | 17            | [41]         | 23           | 3073          |
| 1763 | 1                                | 2810                      | 47            | 46           | 20           | 2924          |
| 1764 | 2                                | 3432                      | 45            | 41           | 30           | 3550          |
| 1765 | 0                                | 3334                      | 31            | 47           | 23           | 3435          |
| 1766 | 0                                | 3280                      | 25            | 48           | 29           | 3382          |
| 1767 | 0                                | 3160                      | 15            | 31           | 20           | 3226          |
| 1768 | 0                                | 3062                      | 35            | 28           | 36           | 3161          |
| 1769 | 0                                | 3125                      | 31            | 35           | 35           | 3226          |



Appendix 2.231 (contd.)

Copenhagen consumption tax ledgers.

Registered gross imports liable to consumption tax.

Kale, loads.

| Year | Christians-<br>havns Gate | North Gate | West Gate | East Gate | Total imports<br>overland |
|------|---------------------------|------------|-----------|-----------|---------------------------|
| 1770 | 3029                      | 48         | 40        | 37        | 3154                      |
| 1771 | 2712                      | 33         | 20        | 39        | 2804                      |
| 1772 | 2562                      | 31         | 34        | 46        | 2673                      |
| 1773 | 2814                      | 39         | 26        | 46        | 2925                      |
| 1774 | 3348                      | 15         | 68        | 25        | 3456                      |
| 1775 | 2895                      | 12         | 30        | 41        | 2978                      |
| 1776 | 2534                      | 14         | 51        | 33        | 2632                      |
| 1777 | [2554]                    | [14]       | [38]      | [23]      | [2629]                    |
| 1778 | 2573                      | 13         | 25        | 12        | 2623                      |
| 1779 | [2612]                    | [14]       | [13]      | [6]       | [2645]                    |
| 1780 | [2651]                    | 15         | 0         | 0         | [2666]                    |
| 1781 | 2690                      | 26         | 23        | 21        | 2760                      |
| 1782 | 2440                      | 34         | 24        | 0         | 2498                      |
| 1783 | 2720                      | 45         | [68]      | 0         | 2833                      |
| 1784 | 3012                      | 48         | 112       | 0         | 3172                      |
| 1785 | 2520                      | 22         | 18        | 23        | 2583                      |
| 1786 | 3472                      | 22         | 24        | 38        | 3556                      |
| 1787 | 3773                      | 24         | 50        | 28        | 3875                      |
| 1788 | 3790                      | 10         | 61        | 38        | 3899                      |
| 1789 | 3499                      | 6          | 42        | 38        | 3585                      |
| 1790 | 3762                      | 11         | 34        | 30        | 3837                      |
| 1791 | 3991                      | 9          | 28        | 36        | 4064                      |
| 1792 | 3706                      | 3          | [29]      | 33        | 3771                      |
| 1793 | 3875                      | 2          | 30        | 23        | 3930                      |
| 1794 | 3689                      | 8          | [34]      | 15        | 3746                      |
| 1795 | 3717                      | 6          | [39]      | 6         | 3768                      |
| 1796 | 3875                      | 11         | 44        | 10        | 3940                      |
| 1797 | 3875                      | 8          | [55]      | 13        | 3951                      |
| 1798 | 2488                      | 5          | 65        | 10        | 2568                      |
| 1799 | 2135                      | 11         | 61        | 11        | 2218                      |
| 1800 | 2112                      | 14         | 63        | 13        | 2202                      |

## Appendix 2.232

Copenhagen consumption tax ledgers.

Registered gross imports liable to consumption tax.

Cabbage and red cabbage, *skok*.

| Year | The custom house (harbour) | Christianshavns Gate | North Gate | West Gate | East Gate | Total imports |
|------|----------------------------|----------------------|------------|-----------|-----------|---------------|
| 1730 | [7]                        | 8537                 | 198        | 51        | 126       | 8919          |
| 1731 | 7                          | 6861                 | 161        | 64        | 136       | 7229          |
| 1732 | 14                         | 7549                 | 237        | 52        | 198       | 8050          |
| 1733 | 22                         | 8005                 | 204        | 51        | 140       | 8422          |
| 1734 | 15                         | 7799                 | 283        | 55        | 170       | 8322          |
| 1735 | 10                         | 6482                 | 255        | 73        | 228       | 7048          |
| 1736 | 2                          | 5469                 | 267        | 51        | 206       | 5995          |
| 1737 | 1                          | 6653                 | 296        | [68]      | 116       | 7134          |
| 1738 | 4                          | 8308                 | 313        | 84        | 273       | 8982          |
| 1739 | 8                          | 6752                 | 118        | [212]     | 217       | 7307          |
| 1740 | 7                          | 5464                 | 157        | 340       | 131       | 6099          |
| 1741 | 17                         | 5793                 | 226        | 280       | 203       | 6519          |
| 1742 | 13                         | 6330                 | 315        | 116       | 212       | 6986          |
| 1743 | 10                         | 6362                 | 393        | [161]     | 343       | 7269          |
| 1744 | 27                         | 8424                 | 328        | 206       | 243       | 9228          |
| 1745 | 38                         | 7946                 | 341        | 186       | 131       | 8642          |
| 1746 | 54                         | 9074                 | 581        | 195       | 314       | 10218         |
| 1747 | 7                          | 7668                 | 442        | 318       | 212       | 8647          |
| 1748 | 16                         | 8338                 | 185        | 132       | 114       | 8785          |
| 1749 | 16                         | 11112                | 309        | 241       | 214       | 11892         |
| 1750 | 12                         | 8681                 | 365        | 174       | 266       | 9498          |
| 1751 | 17                         | 9302                 | 326        | 131       | 216       | 9992          |
| 1752 | 21                         | 9594                 | 321        | 121       | 319       | 10376         |
| 1753 | 19                         | 9991                 | 421        | 142       | 374       | 10947         |
| 1754 | 17                         | 9864                 | 230        | 103       | 196       | 10410         |
| 1755 | 12                         | 9647                 | 511        | 122       | 284       | 10576         |
| 1756 | 5                          | 7891                 | 658        | 127       | 287       | 8968          |
| 1757 | 10                         | 9677                 | 455        | 90        | 215       | 10447         |
| 1758 | 12                         | 10083                | 316        | 184       | 241       | 10836         |
| 1759 | 7                          | 8921                 | 369        | 99        | 261       | 9657          |
| 1760 | 13                         | 9768                 | 354        | 137       | 253       | 10525         |
| 1761 | 17                         | 8466                 | 642        | 129       | 311       | 9565          |
| 1762 | 26                         | 7950                 | 449        | [161]     | 248       | 8834          |
| 1763 | 5                          | 8190                 | 539        | 193       | 230       | 9157          |
| 1764 | 8                          | 8479                 | 650        | 192       | 260       | 9589          |
| 1765 | 14                         | 8464                 | 239        | 198       | 577       | 9492          |
| 1766 | 21                         | 8104                 | 643        | 197       | 324       | 9289          |
| 1767 | 18                         | 7780                 | 696        | 185       | 317       | 8996          |
| 1768 | 5                          | 7754                 | 674        | 287       | 296       | 9016          |
| 1769 | 13                         | 7313                 | 684        | 129       | 355       | 8494          |

## Appendix 2.232 (contd.)

Copenhagen consumption tax ledgers.

Registered gross imports liable to consumption tax.

Cabbage and red cabbage, *skok*.

| Year | Christians-<br>havns Gate | North Gate        | West Gate | East Gate | Total imports<br>overland |
|------|---------------------------|-------------------|-----------|-----------|---------------------------|
| 1770 | 7820                      | 656               | 282       | 335       | 9093                      |
| 1771 | 7444                      | 516               | 152       | 291       | 8403                      |
| 1772 | 6584                      | 796               | 219       | 415       | 8014                      |
| 1773 | 6364                      | 764               | 298       | 654       | 8080                      |
| 1774 | 6400                      | 937               | 197       | 565       | 8099                      |
| 1775 | 5840                      | 657               | 300       | 413       | 7210                      |
| 1776 | 6315                      | 665               | 400       | 397       | 7777                      |
| 1777 | [6350]                    | [591]             | [501]     | [417]     | [7859]                    |
| 1778 | 6385                      | 517               | 601       | 436       | 7939                      |
| 1779 | [7566]                    | [403]             | [366]     | [327]     | [8662]                    |
| 1780 | [8784]                    | 288               | 130       | 218       | [9420]                    |
| 1781 | 9930                      | 559               | 164       | 320       | 10973                     |
| 1782 | 13712                     | 627               | 336       | 194       | 14869                     |
| 1783 | 14524                     | 860 <sup>1)</sup> | [400]     | 212       | 15996                     |
| 1784 | 14498                     | 731 <sup>1)</sup> | 464       | 285       | 15978                     |
| 1785 | 13332                     | 858 <sup>1)</sup> | 513       | 338       | 15041                     |
| 1786 | 12739                     | 1012              | 574       | 520       | 14845                     |
| 1787 | 14710                     | 1145              | 694       | 541       | 17090                     |
| 1788 | 18742                     | 917               | 756       | 510       | 20925                     |
| 1789 | 18785                     | 793               | 813       | 523       | 20914                     |
| 1790 | 17141                     | 618               | 951       | 493       | 19203                     |
| 1791 | 15758                     | 518               | 989       | 525       | 17790                     |
| 1792 | 15636                     | 627               | [895]     | 468       | 17626                     |
| 1793 | 16654                     | 686               | 800       | 457       | 18597                     |
| 1794 | 15142                     | 578               | [874]     | 491       | 17085                     |
| 1795 | 15486                     | 497               | [949]     | 331       | 17263                     |
| 1796 | 16254                     | 590               | 1024      | 864       | 18732                     |
| 1797 | 18195                     | 992               | [1119]    | 542       | 20848                     |
| 1798 | 16983                     | 1119              | 1213      | 656       | 19971                     |
| 1799 | 12967                     | 864               | 1187      | 791       | 15809                     |
| 1800 | 14036                     | 1063              | 1110      | 889       | 17098                     |

1) Savoy cabbage are also included here.

Appendix 2.233

Copenhagen consumption tax ledgers.

Registered gross imports liable to consumption tax.

Cauliflower<sup>1</sup>), *skok*.

| Year | The custom house (harbour) | Christianshavns Gate | North Gate | West Gate | East Gate | Total imports |
|------|----------------------------|----------------------|------------|-----------|-----------|---------------|
| 1762 | 0                          | 0                    | 97         | [0]       | 63        | 160           |
| 1763 | 0                          | 0                    | 267        | 0         | 0         | 267           |
| 1764 | 0                          | 0                    | 339        | 30        | 260       | 629           |
| 1765 | 0                          | 0                    | 178        | 31        | 237       | 446           |
| 1766 | 0                          | 0                    | 316        | 32        | 147       | 495           |
| 1767 | 0                          | 0                    | 456        | 65        | 291       | 812           |
| 1768 | 0                          | 0                    | 479        | 64        | 190       | 733           |
| 1769 | 0                          | 0                    | 383        | 90        | 162       | 635           |

## Appendix 2.233 (contd.)

Copenhagen consumption tax ledgers.

Registered gross imports liable to consumption tax.

Cauliflower, *skok*.

|      | Christians-<br>havns<br>Gate | North<br>Gate | West<br>Gate | East<br>Gate | Total imports<br>overland |
|------|------------------------------|---------------|--------------|--------------|---------------------------|
| 1770 | 0                            | 383           | 0            | 208          | 591                       |
| 1771 | 0                            | 448           | 28           | 218          | 694                       |
| 1772 | 0                            | 412           | 90           | 287          | 789                       |
| 1773 | 0                            | 307           | 131          | 302          | 740                       |
| 1774 | 0                            | 428           | 33           | 229          | 690                       |
| 1775 | 0                            | 212           | 50           | 198          | 460                       |
| 1776 | 0                            | 247           | 61           | 230          | 538                       |
| 1777 | [0]                          | [246]         | [96]         | [181]        | [523]                     |
| 1778 | 0                            | 245           | 131          | 132          | 508                       |
| 1779 | [0]                          | [189]         | [66]         | [122]        | [377]                     |
| 1780 | [0]                          | 132           | 0            | 111          | 243                       |
| 1781 | 0                            | 179           | 125          | 199          | 503                       |
| 1782 | 5                            | 337           | 0            | 259          | 601                       |
| 1783 | 12                           | 347           | [30]         | 70           | 459                       |
| 1784 | 18                           | 376           | 60           | 236          | 690                       |
| 1785 | 24                           | 460           | 114          | 370          | 968                       |
| 1786 | 4                            | 670           | 255          | 634          | 1563                      |
| 1787 | 27                           | 527           | 365          | 521          | 1440                      |
| 1788 | 59                           | 674           | 405          | 582          | 1720                      |
| 1789 | 67                           | 816           | 386          | 533          | 1802                      |
| 1790 | 89                           | 493           | 712          | 691          | 1985                      |
| 1791 | 47                           | 400           | 624          | 602          | 1673                      |
| 1792 | 6                            | 388           | [619]        | 432          | [1445]                    |
| 1793 | 9                            | 394           | 614          | 447          | 1464                      |
| 1794 | 2                            | 389           | [632]        | 669          | [1692]                    |
| 1795 | 6                            | 298           | [651]        | 368          | [1323]                    |
| 1796 | 9                            | 238           | 670          | 843          | 1760                      |
| 1797 | 20                           | 318           | [698]        | 618          | [1654]                    |
| 1798 | 46                           | 483           | 725          | 337          | 1591                      |
| 1799 | 81                           | 569           | 719          | 486          | 1855                      |
| 1800 | 73                           | 497           | 608          | 684          | 1862                      |

1) Prior to the ordinance of 17/6 1762, cauliflowers were probably counted as cabbages.

## Appendix 2.24

Copenhagen consumption tax ledgers.

Registered gross imports liable to consumption tax.

Fresh apples and pears, barrels.

| Year               | The custom house (harbour) | Christianshavns Gate | North Gate | West Gate | East Gate | Total imports |
|--------------------|----------------------------|----------------------|------------|-----------|-----------|---------------|
| 1730               | [3212]                     | 51                   | 1721       | 4709      | 1157      | [10850]       |
| 1731               | 4253                       | 31                   | 258        | 3000      | 394       | 7936          |
| 1732               | 4201                       | 49                   | 573        | 4134      | 512       | 9469          |
| 1733               | 3983                       | 30                   | 588        | 2774      | 623       | 7998          |
| 1734               | 3578                       | 49                   | 1144       | 4256      | 1202      | 10229         |
| 1735               | 3315                       | 47                   | 563        | 3891      | 939       | 8755          |
| 1736               | 4564                       | 29                   | 707        | 5789      | 696       | 11785         |
| 1737               | 6314                       | 30                   | 1573       | [5274]    | 168       | [13359]       |
| 1738               | 2861                       | 24                   | 901        | 4759      | 883       | 9428          |
| 1739               | 5012                       | 34                   | 352        | [2737]    | 1459      | [9594]        |
| 1740               | 2408                       | 11                   | 285        | 714       | 344       | 3762          |
| 1741               | 1470                       | 1                    | 27         | 131       | 10        | 1639          |
| 1742               | 2634                       | 34                   | 214        | 6171      | 156       | 9209          |
| 1743               | 4602                       | 10                   | 589        | [5783]    | 460       | [11444]       |
| 1744               | 3472                       | 36                   | 1084       | 5394      | 842       | 10828         |
| 1745               | 7435                       | 31                   | 1610       | 7160      | 190       | 16426         |
| 1746               | 7410                       | 28                   | 1049       | 4251      | 658       | 13396         |
| 1747               | 9021                       | 12                   | 687        | 8645      | 400       | 18765         |
| 1748               | 4798                       | 31                   | 1202       | 7060      | 767       | 13858         |
| 1749               | 4925                       | 57                   | 516        | 4485      | 301       | 10284         |
| 1750               | 2931                       | 31                   | 732        | 4875      | 604       | 9173          |
| 1751               | 5951                       | 26                   | 1513       | 11214     | 910       | 19614         |
| 1752               | 2971                       | 30                   | 973        | 12937     | 549       | 17460         |
| 1753               | 6167                       | 50                   | 1664       | 15670     | 880       | 24431         |
| 1754               | 2021                       | 51                   | 629        | 9238      | 373       | 12312         |
| 1755               | 4987                       | 46                   | 1228       | 10729     | 941       | 17931         |
| 1756               | 3998                       | 29                   | 1160       | 6678      | 456       | 12321         |
| 1757               | 2123                       | 31                   | 198        | 5578      | 84        | 8014          |
| 1758               | 2952                       | 75                   | 752        | 10902     | 383       | 15064         |
| 1759               | 4801                       | 21                   | 390        | 9747      | 148       | 15107         |
| 1760               | 3031                       | 49                   | 1571       | 11952     | 1028      | 17631         |
| 1761               | 3897                       | 20                   | 368        | 4923      | 160       | 9368          |
| 1762               | 1092                       | 15                   | 384        |           | 302       |               |
| 1763 <sup>1)</sup> | 127 <sup>2)</sup>          |                      |            |           |           |               |
| 1764 <sup>1)</sup> | 80 <sup>2)</sup>           |                      |            |           |           |               |
| 1765 <sup>1)</sup> | 153 <sup>2)</sup>          |                      |            |           |           |               |
| 1766 <sup>1)</sup> | 174 <sup>2)</sup>          |                      |            |           |           |               |
| 1767               | 5107                       | 25                   | 1383       | 4264      | 487       | 11266         |
| 1768               | 4840                       | 16                   | 740        | 4973      | 461       | 11030         |
| 1769               | 4283                       | 21                   | 995        | 4639      | 312       | 10250         |

## Appendix 2.24 (contd.)

Copenhagen consumption tax ledgers.

Registered gross imports liable to consumption tax.

Fresh apples and pears, barrels.

| Year | Christians-<br>havns Gate | North Gate | West Gate | East Gate | Total imports<br>overland |
|------|---------------------------|------------|-----------|-----------|---------------------------|
| 1770 | 11                        | 435        | 4616      | 205       | 5267                      |
| 1771 | 13                        | 1064       | 6181      | 675       | 7933                      |
| 1772 | 13                        | 498        | 2709      | 115       | 3335                      |
| 1773 | 25                        | 832        | 4049      | 416       | 5322                      |
| 1774 | 13                        | 651        | 3150      | 170       | 3984                      |
| 1775 | 4                         | 2638       | 12180     | 1179      | 16001                     |
| 1776 | 6                         | 1537       | 7302      | 670       | 9515                      |
| 1777 | [4]                       | [1262]     | [9192]    | [362]     | [10820]                   |
| 1778 | 2                         | 987        | 11081     | 54        | 12124                     |
| 1779 | [7]                       | [1731]     | [9347]    | [286]     | [11371]                   |
| 1780 | [13]                      | 2474       | 7612      | 518       | 10617                     |
| 1781 | 19                        | 825        | 2205      | 151       | 3200                      |
| 1782 | 12                        | 2774       | 3206      | 317       | 6309                      |
| 1783 | 17                        | 894        | [5879]    | 131       | [6921]                    |
| 1784 | 25                        | 3211       | 8551      | 324       | 12111                     |
| 1785 | 7                         | 324        | 2304      | 48        | 2683                      |
| 1786 | 10                        | 1299       | 4626      | 793       | 6728                      |
| 1787 | 12                        | 584        | 1450      | 114       | 2160                      |
| 1788 | 61                        | 988        | 6524      | 843       | 8416                      |
| 1789 | 3                         | 1377       | 5416      | 270       | 7066                      |

## Appendix 2.24 (contd.)

Copenhagen consumption tax ledgers.

Registered gross imports liable to consumption tax.

Fresh apples, pears and cherries, barrels.

| Year | Christians-<br>havns<br>Gate | North Gate | West Gate          | East Gate | Total imports<br>overland |
|------|------------------------------|------------|--------------------|-----------|---------------------------|
| 1790 | 3                            | 719        | 6154               | 190       | 7066                      |
| 1791 | 3                            | 734        | 13162              | 235       | 14134                     |
| 1792 | 5                            | 818        | [21834]            | 382       | 23039                     |
| 1793 | 1                            | 511        | 30506              | 439       | 31457                     |
| 1794 | 1                            | 512        | [25332]            | 216       | 26061                     |
| 1795 | 14                           | 512        | [20158]            | 536       | 21220                     |
| 1796 | 5                            | 656        | 14984              | 1015      | 16660                     |
| 1797 | 8                            | 1407       | [15180]            | 216       | 16811                     |
| 1798 | 16                           | 1979       | 15375              | 1119      | 18489                     |
| 1799 | 21                           | 2190       | 15566              | 1239      | 19016                     |
| 1800 | 69                           | 1645       | 1974 <sup>3)</sup> | 344       | 4032                      |

1) In 1763-66 home-grown fruit is not registered.

2) »From the Baltic«.

3) Probably an error.

Appendix 2.25

Copenhagen consumption tax ledgers.

Registered gross imports liable to consumption tax.

Fresh cherries, barrels.

| Year               | The custom<br>house<br>(harbour) | Christians-<br>havns Gate | North Gate | West Gate         | East Gate | Total imports |
|--------------------|----------------------------------|---------------------------|------------|-------------------|-----------|---------------|
| 1730               | [0]                              | 1                         | 0          | 1399              | 373       | 1773          |
| 1731               | 0                                | 1                         | 246        | 1216              | 130       | 1593          |
| 1732               | 0                                | 0                         | 299        | 2219              | 169       | 2687          |
| 1733               | 0                                | 0                         | 699        | 1804              | 194       | 2697          |
| 1734               | 0                                | 0                         | 499        | 1049              | 215       | 1763          |
| 1735               | 0                                | 0                         | 353        | 1905              | 125       | 2383          |
| 1736               | 0                                | 0                         | 361        | 1577              | 47        | 1985          |
| 1737               | 0                                | 0                         | 704        | [1524]            | 8         | [2236]        |
| 1738               | 0                                | 0                         | 345        | 1471              | 4         | 1820          |
| 1739               | 0                                | 0                         | 5          | [2668]            | 176       | [2849]        |
| 1740               | 0                                | 0                         | 326        | 3864              | 116       | 4306          |
| 1741               | 0                                | 0                         | 158        | 117 <sup>1)</sup> | 77        | 352           |
| 1742               | 0                                | 0                         | 150        | 2104              | 35        | 2289          |
| 1743               | 0                                | 0                         | 567        | [2480]            | 127       | [3174]        |
| 1744               | 0                                | 0                         | 863        | 2856              | 108       | 3827          |
| 1745               | 0                                | 0                         | 283        | 2046              | 59        | 2388          |
| 1746               | 0                                | 0                         | 247        | 817               | 20        | 1084          |
| 1747               | 0                                | 0                         | 789        | 1322              | 51        | 2162          |
| 1748               | 0                                | 0                         | 764        | 1551              | 62        | 2377          |
| 1749               | 0                                | 0                         | 889        | 429               | 32        | 1350          |
| 1750               | 0                                | 0                         | 224        | 856               | 10        | 1090          |
| 1751               | 0                                | 0                         | 398        | 2234              | 11        | 2643          |
| 1752               | 0                                | 0                         | 232        | 2703              | 12        | 2947          |
| 1753               | 3                                | 0                         | 123        | 2181              | 9         | 2316          |
| 1754               | 0                                | 0                         | 333        | 2236              | 28        | 2597          |
| 1755               | 0                                | 0                         | 342        | 3716              | 48        | 4106          |
| 1756               | 0                                | 0                         | 700        | 1291              | 42        | 2033          |
| 1757               | 0                                | 0                         | 130        | 1809              | 9         | 1948          |
| 1758               | 0                                | 1                         | 827        | 4852              | 253       | 5933          |
| 1759               | 0                                | 0                         | 56         | 2934              | 2         | 2992          |
| 1760               | 0                                | 0                         | 935        | 2843              | 74        | 3852          |
| 1761               | 0                                | 0                         | 488        | 2059              | 78        | 2625          |
| 1762               | 0                                | 0                         | 784        |                   | 83        |               |
| 1763 <sup>2)</sup> |                                  |                           |            |                   |           |               |
| 1764 <sup>2)</sup> |                                  |                           |            |                   |           |               |
| 1765 <sup>2)</sup> |                                  |                           |            |                   |           |               |
| 1766 <sup>2)</sup> |                                  |                           |            |                   |           |               |
| 1767               | 0                                | 0                         | 256        | 2021              | 19        | 2296          |
| 1768               | 0                                | 0                         | 584        | 2846              | 29        | 3459          |
| 1769               | 0                                | 0                         | 567        | 1305              | 347       | 2219          |



Appendix 2.25 (contd.)

Copenhagen consumption tax ledgers.

Registered gross imports liable to consumption tax.

Fresh cherries, barrels.

| Year | Christians-<br>havns Gate | North Gate | West Gate | East Gate | Total imports<br>overland |
|------|---------------------------|------------|-----------|-----------|---------------------------|
| 1770 | 0                         | 82         | 656       | 15        | 753                       |
| 1771 | 0                         | 773        | 1559      | 66        | 2398                      |
| 1772 | 0                         | 100        | 774       | 17        | 891                       |
| 1773 | 0                         | 258        | 1766      | 97        | 2121                      |
| 1774 | 0                         | 550        | 4837      | 15        | 5402                      |
| 1775 | 0                         | 185        | 2000      | 5         | 2190                      |
| 1776 | 0                         | 654        | 1563      | 52        | 2269                      |
| 1777 | [0]                       | [586]      | [1594]    | [31]      | [2211]                    |
| 1778 | 0                         | 518        | 1624      | 10        | 2152                      |
| 1779 | [0]                       | [568]      | [1238]    | [30]      | [1836]                    |
| 1780 | [0]                       | 618        | 851       | 50        | 1519                      |
| 1781 | 0                         | 216        | 1039      | 0         | 1255                      |
| 1782 | 0                         | 249        | 703       | 76        | 1028                      |
| 1783 | 0                         | 851        | [1191]    | 0         | [2042]                    |
| 1784 | 0                         | 599        | 1678      | 0         | 2277                      |
| 1785 | 0                         | 519        | 1903      | 0         | 2422                      |
| 1786 | 0                         | 700        | 2179      | 93        | 2972                      |
| 1787 | 0                         | 0          | 2279      | 11        | 2290                      |
| 1788 | 0                         | 0          | 9179      | 198       | 9377                      |
| 1789 | 0                         | 0          | 6204      | 16        | 6220                      |

1) Probably an error.

2) In 1763–66 home-grown fruit is not registered.

Appendix 2.26

Copenhagen consumption tax ledgers.

Registered gross imports liable to consumption tax.

Hops, *lispund*.

|      | Total imports <sup>1)</sup> |      | Total imports <sup>1)</sup> |      | Total imports<br>overland |
|------|-----------------------------|------|-----------------------------|------|---------------------------|
| 1730 |                             | 1754 | 21026                       | 1777 |                           |
| 1731 | 20573                       | 1755 | 20631                       | 1778 | 180                       |
| 1732 | 23465                       | 1756 | 21050                       | 1779 |                           |
| 1733 | 21344                       | 1757 | 23482                       | 1780 | 2                         |
| 1734 | 17875                       | 1758 | 19491                       | 1781 | 505                       |
| 1735 | 19792                       | 1759 | 17493                       | 1782 | 1                         |
| 1736 | 14452                       | 1760 | 19750                       | 1783 |                           |
| 1737 | 13582                       | 1761 | 18648                       | 1784 | 36                        |
| 1738 | 14193                       | 1762 | 21074                       | 1785 | 0                         |
| 1739 | 16265                       | 1763 | 14398                       | 1786 | 11                        |
| 1740 | 11038                       | 1764 | 16025                       | 1787 | 1394                      |
| 1741 | 6390                        | 1765 | 12126                       | 1788 | 147                       |
| 1742 | 7991                        | 1766 | 17644                       | 1789 | 341                       |
| 1743 | 14351                       | 1767 | 8003                        | 1790 | 247                       |
| 1744 | 9036                        | 1768 | 17526                       | 1791 | 320                       |
| 1745 | 14560                       | 1769 | 9521                        | 1792 |                           |
| 1746 | 18403                       |      | Total imports<br>overland   | 1793 | 2214                      |
| 1747 | 20752                       |      |                             | 1794 |                           |
| 1748 | 18508                       | 1770 | 64                          | 1795 |                           |
| 1749 | 10400                       | 1771 | 803                         | 1796 | 577                       |
| 1750 | 17478                       | 1772 | 20                          | 1797 |                           |
| 1751 | 18411                       | 1773 | 120                         | 1798 | 966                       |
| 1752 | 20873                       | 1774 | 132                         | 1799 | 891                       |
| 1753 | 19038                       | 1775 | 0                           | 1800 | 1365                      |
|      |                             | 1776 | 369                         |      |                           |

<sup>1)</sup> Nearly all the imports came by sea.

## Appendix 2.311

Copenhagen consumption tax ledgers.

Registered gross imports liable to consumption tax.

Oxen and cows<sup>1)</sup>

| Year | The custom<br>house<br>(harbour) | Christians-<br>havns Gate | North Gate | West Gate | East Gate | Total imports |
|------|----------------------------------|---------------------------|------------|-----------|-----------|---------------|
| 1730 | [5]                              | 271                       | 1951       | 3976      | 237       | 6440          |
| 1731 | 6                                | 355                       | 1160       | 4401      | 457       | 6379          |
| 1732 | 0                                | 549                       | 1022       | 4421      | 541       | 6533          |
| 1733 | 3                                | 482                       | 972        | 4842      | 539       | 6838          |
| 1734 | 9                                | 477                       | 1936       | 3771      | 408       | 6601          |
| 1735 | 5                                | 445                       | 2035       | 4215      | 334       | 7034          |
| 1736 | 9                                | 343                       | 2223       | 4392      | 325       | 7292          |
| 1737 | 0                                | 319                       | 2228       | [4315]    | 82        | [6944]        |
| 1738 | 0                                | 413                       | 1825       | 4237      | 318       | 6793          |
| 1739 | 9                                | 368                       | 1360       | [4577]    | 733       | [7047]        |
| 1740 | 0                                | 515                       | 2272       | 4916      | 514       | 8217          |
| 1741 | 0                                | 422                       | 2896       | 3484      | 350       | 7152          |
| 1742 | 0                                | 277                       | 2645       | 4101      | 258       | 7281          |
| 1743 | 0                                | 356                       | 2259       | [4185]    | 249       | [7049]        |
| 1744 | 0                                | 285                       | 2953       | 4269      | 413       | 7920          |
| 1745 | 0                                | 232                       | 2247       | 5697      | 154       | 8330          |
| 1746 | 225                              | 115                       | 588        | 4824      | 99        | 5851          |
| 1747 | 740                              | 92                        | 269        | 3868      | 58        | 5027          |
| 1748 | 644                              | 152                       | 208        | 4338      | 63        | 5405          |
| 1749 | 187                              | 159                       | 225        | 4620      | 72        | 5263          |
| 1750 | 206                              | 154                       | 413        | 4739      | 90        | 5602          |
| 1751 | 129                              | 216                       | 418        | 6039      | 64        | 6866          |
| 1752 | 336                              | 211                       | 507        | 6099      | 72        | 7225          |
| 1753 | 270                              | 269                       | 673        | 6842      | 77        | 8131          |
| 1754 | 112                              | 423                       | 909        | 7394      | 115       | 8953          |
| 1755 | 535                              | 407                       | 687        | 8673      | 142       | 10444         |
| 1756 | 360                              | 378                       | 10         | 8796      | 5         | 9549          |
| 1757 | 551                              | 312                       | 0          | 9122      | 0         | 9985          |
| 1758 | 264                              | 300                       | 0          | 8992      | 1         | 9557          |
| 1759 | 309                              | 327                       | 0          | 8661      | 0         | 9297          |
| 1760 | 321                              | 464                       | 0          | 8929      | 0         | 9714          |
| 1761 | 64                               | 388                       | 0          | 9137      | 0         | 9589          |
| 1762 | 149                              | 240                       | 0          | [8319]    | 0         | [8708]        |
| 1763 | 905                              | 358                       | 1          | 7500      | 0         | 8764          |
| 1764 | 651                              | 269                       | 566        | 6779      | 0         | 8265          |
| 1765 | 362                              | 275                       | 0          | 7636      | 0         | 8273          |
| 1766 | 253                              | 198                       | 0          | 7707      | 0         | 8158          |
| 1767 | 417                              | 287                       | 0          | 8409      | 0         | 9113          |
| 1768 | 496                              | 193                       | 1247       | 6100      | 312       | 8348          |
| 1769 | 185                              | 213                       | 3107       | 4977      | 232       | 8714          |

Appendix 2.311 (contd.)

Copenhagen consumption tax ledgers.

Registered gross imports liable to consumption tax.

Oxen and cows<sup>1)</sup>

| Year | Christians-<br>havns Gate | North Gate | West Gate | East Gate | Total imports<br>overland |
|------|---------------------------|------------|-----------|-----------|---------------------------|
| 1770 | 283                       | 2790       | 5205      | 350       | 8628                      |
| 1771 | 375                       | 1469       | 4279      | 419       | 6542                      |
| 1772 | 280                       | 1492       | 4060      | 425       | 6257                      |
| 1773 | 326                       | 1953       | 4585      | 495       | 7359                      |
| 1774 | 292                       | 1712       | 4765      | 534       | 7303                      |
| 1775 | 264                       | 1689       | 5310      | 443       | 7706                      |
| 1776 | 353                       | 2409       | 4938      | 646       | 8346                      |
| 1777 | [350]                     | [2206]     | [5641]    | [703]     | [8900]                    |
| 1778 | 346                       | 2003       | 6344      | 760       | 9453                      |
| 1779 | [506]                     | [2238]     | [6382]    | [963]     | [10089]                   |
| 1780 | 666                       | 2472       | 6420      | 1165      | 10723                     |
| 1781 | 496                       | 2746       | 6102      | 1094      | 10438                     |
| 1782 | 609                       | 2576       | 6517      | 1068      | 10770                     |
| 1783 | 449                       | 2798       | 5771      | 963       | 9981                      |
| 1784 | 405                       | 3341       | 5897      | 1248      | 10891                     |
| 1785 | 540                       | 3493       | 6058      | 1146      | 11237                     |
| 1786 | 567                       | 3242       | 5825      | 1256      | 10890                     |
| 1787 | 574                       | 3020       | 5174      | 1158      | 9926                      |
| 1788 | 699                       | 3201       | 4929      | 890       | 9719                      |
| 1789 | 683                       | 3812       | 5252      | 884       | 10631                     |
| 1790 | 654                       | 2937       | 5222      | 813       | 9626                      |
| 1791 | 660                       | 2358       | 5036      | 856       | 8910                      |
| 1792 | 571                       | 2239       | 4752      | 554       | 8116                      |
| 1793 | 579                       | 2393       | 4599      | 569       | 8140                      |
| 1794 | 584                       | 2879       | [4517]    | 891       | [8871]                    |
| 1795 | 669                       | 2629       | [4435]    | 504       | [8237]                    |
| 1796 | 529                       | 1790       | 4354      | 752       | 7425                      |
| 1797 | 698                       | 1287       | [5000]    | 274       | [7259]                    |
| 1798 | 765                       | 1213       | 5645      | 277       | 7900                      |
| 1799 | 792                       | 1710       | 6025      | 379       | 8906                      |
| 1800 | 635                       | 1883       | 6340      | 516       | 9374                      |

<sup>1)</sup> The extent to which cows account for these numbers can be seen from Appendix 2.312, inasmuch as the import abstracts give separate figures for oxen and cows.

Appendix 2.312

Copenhagen consumption tax ledgers.

Registered gross imports liable to consumption tax.

Of the numbers shown in appendix 2.311 cows constituted the following numbers.

| Year | The custom house (harbour) | Christianshavns Gate | North Gate | West Gate | East Gate |
|------|----------------------------|----------------------|------------|-----------|-----------|
| 1730 |                            |                      |            | 627       |           |
| 1731 |                            |                      | 172        | 631       |           |
| 1732 | 0                          |                      | 192        | 684       |           |
| 1733 | 0                          |                      | 186        | 857       |           |
| 1734 |                            |                      | 337        | 610       |           |
| 1735 |                            |                      | 241        | 797       |           |
| 1736 | 0                          |                      | 119        | 767       |           |
| 1737 | 0                          |                      | 184        |           |           |
| 1738 | 0                          |                      | 181        | 787       |           |
| 1739 | 0                          |                      | 115        |           |           |
| 1740 | 0                          |                      | 180        | 987       |           |
| 1741 | 0                          |                      | 289        | 732       |           |
| 1742 | 0                          |                      | 191        | 1028      |           |
| 1743 | 0                          |                      | 170        |           |           |
| 1744 | 0                          |                      | 217        | 1021      | 15        |
| 1745 | 0                          |                      | 163        | 847       | 18        |
| 1746 |                            |                      | 284        | 482       | 57        |
| 1747 |                            |                      | 207        | 635       | 41        |
| 1748 |                            |                      | 132        | 635       | 42        |
| 1749 |                            |                      | 143        | 564       | 44        |
| 1750 |                            |                      | 274        | 767       | 63        |
| 1751 |                            |                      | 176        | 1110      | 47        |
| 1752 |                            |                      | 132        | 950       | 49        |
| 1753 |                            |                      | 156        | 1089      | 51        |
| 1754 |                            |                      | 282        | 1094      | 59        |
| 1755 |                            |                      | 172        | 1208      | 30        |
| 1756 |                            |                      | 2          | 1398      | 1         |
| 1757 |                            |                      | 0          | 1266      | 0         |
| 1758 |                            |                      | 0          | 1195      | 1         |
| 1759 |                            |                      | 0          | 1220      | 0         |
| 1760 |                            |                      | 0          | 1393      | 0         |
| 1761 |                            |                      | 0          | 1905      | 0         |
| 1762 |                            |                      | 0          |           | 0         |
| 1763 |                            |                      | 0          | 1107      | 0         |
| 1764 |                            |                      | 0          | 1394      | 0         |
| 1765 |                            |                      | 0          | 1244      | 0         |
| 1766 |                            |                      | 0          | 1125      | 0         |
| 1767 |                            |                      | 0          | 1634      | 0         |
| 1768 |                            |                      | 2          | 1215      | 2         |
| 1769 |                            |                      | 0          | 1253      | 0         |

Appendix 2.312 (contd.)

Copenhagen consumption tax ledgers.

Registered gross imports liable to consumption tax.

Of the numbers shown in appendix 2.311 cows constituted the following numbers.

| Year | Christians-<br>havns Gate | North Gate | West Gate | East Gate |
|------|---------------------------|------------|-----------|-----------|
| 1770 |                           | 0          | 1057      | 0         |
| 1771 |                           | 2          | 1014      | 0         |
| 1772 |                           | 0          | 915       | 0         |
| 1773 |                           | 4          | 878       | 2         |
| 1774 |                           | 11         | 1093      | 6         |
| 1775 |                           | 22         | 1437      | 24        |
| 1776 |                           | 90         | 1341      | 31        |
| 1777 |                           |            |           |           |
| 1778 |                           | 205        | 1331      | 31        |
| 1779 |                           |            |           |           |
| 1780 | 578                       | 216        | 1928      | 27        |
| 1781 |                           | 268        | 1690      | 36        |
| 1782 |                           | 262        | 2061      | 57        |
| 1783 |                           | 154        | 1788      | 47        |
| 1784 |                           | 178        | 1807      | 47        |
| 1785 |                           | 145        | 1768      | 29        |
| 1786 |                           | 128        | 1638      | 38        |
| 1787 |                           | 150        | 1497      | 35        |
| 1788 |                           | 167        | 1411      | 36        |
| 1789 |                           | 186        | 1527      | 30        |
| 1790 |                           | 154        | 1532      | 27        |
| 1791 |                           | 144        | 1536      | 35        |
| 1792 |                           | 178        | 1631      | 29        |
| 1793 |                           | 198        | 1546      | 34        |
| 1794 |                           | 176        |           | 49        |
| 1795 |                           | 135        |           | 40        |
| 1796 |                           | 134        | 1952      | 54        |
| 1797 | 634                       | 146        |           | 53        |
| 1798 | 694                       | 138        | 2845      | 40        |
| 1799 | 701                       | 162        | 3230      | 40        |
| 1800 |                           | 119        | 2901      | 70        |

## Appendix 2.32

Copenhagen consumption tax ledgers.  
Registered gross imports liable to consumption tax.  
Calves under 3 weeks.

| Year | The custom<br>house<br>(harbour) | Christians-<br>havns Gate | North Gate | West Gate | East Gate | Total imports     |
|------|----------------------------------|---------------------------|------------|-----------|-----------|-------------------|
| 1730 | [0]                              | 1593                      | 88         | 189       | 9         | 1879              |
| 1731 | 0                                | 1496                      | 65         | 142       | 59        | 1762              |
| 1732 | 0                                | 1366                      | 68         | 82        | 17        | 1533              |
| 1733 | 0                                | 1469                      | 67         | 229       | 24        | 1789              |
| 1734 | 0                                | 1377                      | 90         | 118       | 11        | 1596              |
| 1735 | 0                                | 1655                      | 97         | 196       | 16        | 1964              |
| 1736 | 0                                | 1640                      | 85         | 384       | 12        | 2121              |
| 1737 | 0                                | 1715                      | 142        | [458]     | 14        | [2329]            |
| 1738 | 1                                | 1479                      | 99         | 531       | 15        | 2125              |
| 1739 | 0                                | 1560                      | 117        | [409]     | 25        | [2111]            |
| 1740 | 0                                | 1627                      | 94         | 286       | 18        | 2025              |
| 1741 | 0                                | 1654                      | 160        | 318       | 10        | 2142              |
| 1742 | 0                                | 1513                      | 117        | 315       | 17        | 1962              |
| 1743 | 0                                | 1410                      | 109        | [308]     | 26        | [1853]            |
| 1744 | 0                                | 1604                      | 176        | 300       | 23        | 2103              |
| 1745 | 0                                | 1240                      | 129        | 234       | 18        | 1621              |
| 1746 | 0                                | 128                       | 60         | 48        | 21        | 257               |
| 1747 | 0                                | 175                       | 27         | 28        | 5         | 235 <sup>1)</sup> |
| 1748 | 0                                | 24                        | 0          | 3         | 0         | 27                |
| 1749 | 0                                | 563                       | 55         | 76        | 10        | 704               |
| 1750 | 0 <sup>2)</sup>                  | 426                       | 17         | 41        | 6         | 490               |
| 1751 | 0 <sup>2)</sup>                  | 591                       | 29         | 79        | 9         | 708               |
| 1752 | 0 <sup>2)</sup>                  | 1366                      | 69         | 170       | 27        | 1632              |
| 1753 | 0 <sup>2)</sup>                  | 1512                      | 149        | 274       | 26        | 1961              |
| 1754 | 0 <sup>2)</sup>                  | 1467                      | 263        | 459       | 32        | 2221              |
| 1755 | 0 <sup>2)</sup>                  | 1616                      | 242        | 560       | 34        | 2452              |
| 1756 | 0 <sup>2)</sup>                  | 1649                      | 360        | 807       | 21        | 2837              |
| 1757 | 0 <sup>2)</sup>                  | 1678                      | 369        | 784       | 53        | 2884              |
| 1758 | 0 <sup>2)</sup>                  | 1621                      | 621        | 848       | 62        | 3152              |
| 1759 | 0 <sup>2)</sup>                  | 1498                      | 448        | 991       | 72        | 3009              |
| 1760 | 0 <sup>2)</sup>                  | 1432                      | 438        | 1083      | 44        | 2997              |
| 1761 | 0 <sup>2)</sup>                  | 1198                      | 550        | 960       | 55        | 2763              |
| 1762 | 0 <sup>2)</sup>                  | 1150                      | 712        | [712]     | 58        | [2632]            |
| 1763 | 2                                | 406                       | 279        | 463       | 50        | 1200              |
| 1764 | 14                               | 912                       | 161        | 456       | 27        | 1570              |
| 1765 | 11                               | 1244                      | 247        | 537       | 54        | 2093              |
| 1766 | 13                               | 976                       | 265        | 536       | 45        | 1835              |
| 1767 | 5                                | 1076                      | 328        | 618       | 35        | 2062              |
| 1768 | 4                                | 1252                      | 282        | 706       | 52        | 2296              |
| 1769 | 6                                | 1196                      | 280        | 915       | 34        | 2431              |

Appendix 2.32 (contd.)

Copenhagen consumption tax ledgers.

Registered gross imports liable to consumption tax.

Calves under 3 weeks.

| Year | Christians-<br>havns Gate | North Gate | West Gate | East Gate | Total imports<br>overland |
|------|---------------------------|------------|-----------|-----------|---------------------------|
| 1770 | 1078                      | 152        | 789       | 46        | 2065                      |
| 1771 | 1128                      | 231        | 456       | 52        | 1867                      |
| 1772 | 1082                      | 274        | 403       | 76        | 1835                      |
| 1773 | 1186                      | 272        | 537       | 94        | 2089                      |
| 1774 | 1113                      | 131        | 536       | 124       | 1904                      |
| 1775 | 1107                      | 187        | 828       | 140       | 2262                      |
| 1776 | 1154                      | 172        | 392       | 107       | 1825                      |
| 1777 | [1116]                    | [210]      | [495]     | [127]     | [1948]                    |
| 1778 | 1077                      | 248        | 598       | 147       | 2070                      |
| 1779 | [1071]                    | [300]      | [522]     | [164]     | [2057]                    |
| 1780 | [1065]                    | 352        | 446       | 181       | 2044                      |
| 1781 | 1059                      | 460        | 467       | 216       | 2202                      |
| 1782 | 1057                      | 467        | 416       | 92        | 2032                      |
| 1783 | 1142                      | 460        | [424]     | 198       | [2224]                    |
| 1784 | 1246                      | 674        | 432       | 0         | 2352                      |
| 1785 | 1221                      | 906        | 1504      | 388       | 4019                      |
| 1786 | 1240                      | 885        | 2803      | 282       | 5210                      |
| 1787 | 1036                      | 529        | 2379      | 306       | 4250                      |
| 1788 | 1204                      | 729        | 2574      | 306       | 4813                      |
| 1789 | 1280                      | 904        | 2822      | 381       | 5387                      |
| 1790 | 1451                      | 828        | 2643      | 392       | 5314                      |
| 1791 | 1362                      | 741        | 2387      | 387       | 4877                      |
| 1792 | 1518                      | 765        | [2281]    | 380       | [4944]                    |
| 1793 | 1645                      | 792        | 2175      | 446       | 5058                      |
| 1794 | 1775                      | 617        | [2665]    | 467       | [5524]                    |
| 1795 | 1686                      | 983        | [3155]    | 443       | [6267]                    |
| 1796 | 1806                      | 1040       | 3646      | 555       | 7047                      |
| 1797 | 1510                      | 706        | [3665]    | 476       | [6357]                    |
| 1798 | 1668                      | 721        | 3684      | 567       | 6640                      |
| 1799 | 1498                      | 1451       | 4277      | 504       | 7730                      |
| 1800 | 1540                      | 573        | 1571      | 427       | 4111                      |

1) An ordinance of 19/5 1747 prohibited the import of live or slaughtered calves into the towns. The cattle plague was the reason for the embargo.

2) Included in the numbers on appendix 2.33.

3) Described as bull-calves.



## Appendix 2.33

Copenhagen consumption tax ledgers.

Registered gross imports liable to consumption tax.

Calves under 1 year but over 3 weeks.

| Year | The custom<br>house<br>(harbour) | Christians-<br>havns Gate | North Gate        | West Gate | East Gate | Total imports     |
|------|----------------------------------|---------------------------|-------------------|-----------|-----------|-------------------|
| 1730 | [1]                              | 352                       | 346               | 2539      | 83        | 3321              |
| 1731 | 0                                | 379                       | 404               | 2393      | 59        | 3235              |
| 1732 | 2                                | 384                       | 152               | 1929      | 49        | 2516              |
| 1733 | 4                                | 349                       | 127               | 2366      | 44        | 2890              |
| 1734 | 1                                | 331                       | 477               | 1992      | 29        | 2830              |
| 1735 | 4                                | 254                       | 296               | 2291      | 14        | 2859              |
| 1736 | 2                                | 274                       | 322               | 2455      | 13        | 3066              |
| 1737 | 3                                | 392                       | 305               | [2733]    | 6         | [3439]            |
| 1738 | 0                                | 365                       | 369               | 3011      | 12        | 3757              |
| 1739 | 1                                | 460                       | 179               | [2911]    | 22        | [3573]            |
| 1740 | 10                               | 505                       | 181               | 2810      | 4         | 3510              |
| 1741 | 5                                | 452                       | 393               | 2754      | 10        | 3614              |
| 1742 | 3                                | 461                       | 347               | 2634      | 6         | 3451              |
| 1743 | 6                                | 495                       | 422               | [3434]    | 6         | [4363]            |
| 1744 | 4                                | 282                       | 421               | 4234      | 23        | 4964              |
| 1745 | 3                                | 460                       | 392               | 3284      | 16        | 4155              |
| 1746 | 13                               | 43                        | 169               | 703       | 13        | 941               |
| 1747 | 6                                | 41                        | 154               | 521       | 18        | 740 <sup>1)</sup> |
| 1748 | 131                              | 86                        | 97                | 506       | 3         | 823               |
| 1749 | 25                               | 279 <sup>2)</sup>         | 243 <sup>2)</sup> | 1502      | 30        | 2079              |
| 1750 | 25 <sup>3)</sup>                 | 156                       | 324               | 1535      | 13        | 2053              |
| 1751 | 1 <sup>3)</sup>                  | 173                       | 224               | 1962      | 28        | 2388              |
| 1752 | 3 <sup>3)</sup>                  | 340                       | 251               | 2904      | 42        | 3540              |
| 1753 | 4 <sup>3)</sup>                  | 466                       | 302               | 4649      | 36        | 5457              |
| 1754 | 2 <sup>3)</sup>                  | 443                       | 332               | 4752      | 38        | 5567              |
| 1755 | 2 <sup>3)</sup>                  | 577                       | 228               | 5481      | 26        | 6314              |
| 1756 | 2 <sup>3)</sup>                  | 606                       | 271               | 5471      | 15        | 6365              |
| 1757 | 6 <sup>3)</sup>                  | 481                       | 361               | 5365      | 13        | 6226              |
| 1758 | 24 <sup>3)</sup>                 | 506                       | 306               | 2407      | 18        | 3261              |
| 1759 | 13 <sup>3)</sup>                 | 462                       | 240               | 3507      | 17        | 4239              |
| 1760 | 7 <sup>3)</sup>                  | 605                       | 360               | 2694      | 6         | 3672              |
| 1761 | 5 <sup>3)</sup>                  | 533                       | 344               | 3007      | 20        | 3909              |
| 1762 | 129 <sup>3)</sup>                | 515                       | 421               | [2015]    | 22        | [3102]            |
| 1763 | 3                                | 84                        | 166               | 1023      | 20        | 1296              |
| 1764 | 10                               | 124                       | 225               | 2050      | 33        | 2442              |
| 1765 | 0                                | 371                       | 230               | 3026      | 41        | 3668              |
| 1766 | 0                                | 365                       | 527               | 3909      | 77        | 4878              |
| 1767 | 2                                | 130                       | 701               | 3897      | 79        | 4809              |
| 1768 | 4                                | 192                       | 533               | 4283      | 68        | 5080              |
| 1769 | 2                                | 243                       | 405               | 3539      | 106       | 4295              |

Appendix 2.33 (contd.)

Copenhagen consumption tax ledgers.

Registered gross imports liable to consumption tax.

Calves under 1 year but over 3 weeks.

| Year | Christians-<br>havns Gate | North Gate | West Gate | East Gate | Total imports<br>overland |
|------|---------------------------|------------|-----------|-----------|---------------------------|
| 1770 | 156                       | 371        | 2933      | 78        | 3538                      |
| 1771 | 204                       | 287        | 4050      | 34        | 4575                      |
| 1772 | 209                       | 181        | 3891      | 27        | 4308                      |
| 1773 | 217                       | 236        | 3027      | 27        | 3507                      |
| 1774 | 362                       | 246        | 3909      | 42        | 4559                      |
| 1775 | 388                       | 342        | 5152      | 32        | 5914                      |
| 1776 | 454                       | 269        | 4966      | 32        | 5721                      |
| 1777 | [424]                     | [446]      | [5095]    | [41]      | [6006]                    |
| 1778 | 394                       | 623        | 5224      | 49        | 6290                      |
| 1779 | [472]                     | [655]      | [4974]    | [49]      | [6150]                    |
| 1780 | [550]                     | 687        | 4723      | 49        | 6009                      |
| 1781 | 628                       | 333        | 5636      | 43        | 6640                      |
| 1782 | 664                       | 240        | 5827      | 52        | 6783                      |
| 1783 | 898                       | 260        | [5344]    | 97        | [6599]                    |
| 1784 | 678                       | 337        | 4861      | 79        | 5955                      |
| 1785 | 688                       | 352        | 5836      | 21        | 6897                      |
| 1786 | 681                       | 279        | 6089      | 30        | 7079                      |
| 1787 | 784                       | 190        | 5454      | 24        | 6452                      |
| 1788 | 690                       | 176        | 6415      | 27        | 7308                      |
| 1789 | 654                       | 185        | 5925      | 17        | 6781                      |
| 1790 | 608                       | 146        | 7218      | 25        | 7997                      |
| 1791 | 646                       | 182        | 7456      | 22        | 8306                      |
| 1792 | 735                       | 159        | [7429]    | 21        | [8344]                    |
| 1793 | 432                       | 304        | 7401      | 18        | 8155                      |
| 1794 | 473                       | 142        | [6998]    | 13        | [7626]                    |
| 1795 | 397                       | 250        | [6595]    | 19        | [7261]                    |
| 1796 | 227                       | 529        | 6193      | 18        | 6967                      |
| 1797 | 348                       | 790        | [6837]    | 27        | [8002]                    |
| 1798 | 519                       | 935        | 7481      | 39        | 8974                      |
| 1799 | 531                       | 683        | 7132      | 51        | 8397                      |
| 1800 | 291                       | 179        | 2436      | 14        | 2920                      |

1) An ordinance of 19/5 1747 prohibited the import of live or slaughtered calves into the towns. The cattle plague was the reason for the embargo.

2) Described as bull-calves.

3) Described in the import abstracts merely as calves.

## Appendix 2.34

Copenhagen consumption tax ledgers.

Registered gross imports liable to consumption tax.

Fresh and smoked beef, *lispund*.

| Year | The custom<br>house<br>(harbour) | Christians-<br>havns Gate | North Gate | West Gate | East Gate | Total imports |
|------|----------------------------------|---------------------------|------------|-----------|-----------|---------------|
| 1730 | [1190]                           | 3163                      | 4171       | 20574     | 975       | 30073         |
| 1731 | 1429                             | 2215                      | 5481       | 16781     | 219       | 26125         |
| 1732 | 1315                             | 1713                      | 4002       | 16529     | 594       | 24153         |
| 1733 | 1113                             | 3513                      | 4139       | 23917     | 221       | 32903         |
| 1734 | 1032                             | 1914                      | 12715      | 14279     | 12        | 29952         |
| 1735 | 970                              | 1931                      | 6323       | 30525     | 196       | 39945         |
| 1736 | 1238                             | 2392                      | 6815       | 26476     | 152       | 37073         |
| 1737 | 1295                             | 2873                      | 9674       | [36631]   | 217       | [50690]       |
| 1738 | 1702                             | 2429                      | 11856      | 46786     | 14        | 62787         |
| 1739 | 1331                             | 2582                      | 8662       | [51621]   | 3         | [64199]       |
| 1740 | 1404                             | 1379                      | 6920       | 56456     | 11        | 66170         |
| 1741 | 1717                             | 759                       | 6851       | 22615     | 9         | 31951         |
| 1742 | 1099                             | 1282                      | 6018       | 24613     | 1508      | 34520         |
| 1743 | 1126                             | 771                       | 4455       | [34425]   | 1421      | [42198]       |
| 1744 | 1409                             | 1181                      | 5798       | 44236     | 1680      | 54304         |
| 1745 | 1514                             | 336                       | 8734       | 53961     | 2502      | 67047         |
| 1746 | 2684                             | 275                       | 3487       | 13956     | 790       | 21192         |
| 1747 | 2832                             | 87                        | 881        | 3149      | 302       | 7251          |
| 1748 | 2764                             | 53                        | 1956       | 10235     | 307       | 15315         |
| 1749 | 1652                             | 241                       | 1445       | 16406     | 430       | 20174         |
| 1750 | 1542                             | 40                        | 1583       | 14553     | 327       | 18045         |
| 1751 | 1602                             | 850                       | 1936       | 21777     | 360       | 26525         |
| 1752 | 1803                             | 1412                      | 3881       | 19019     | 501       | 26616         |
| 1753 | 2829                             | 1622                      | 3582       | 25199     | 551       | 33783         |
| 1754 | 1425                             | 1701                      | 11150      | 23943     | 616       | 38835         |
| 1755 | 1845                             | 2721                      | 5843       | 47901     | 1413      | 59723         |
| 1756 | 1983                             | 1946                      | 8271       | 49051     | 1799      | 63050         |
| 1757 | 1864                             | 2351                      | 9836       | 46483     | 3719      | 64253         |
| 1758 | 1782                             | 1889                      | 6378       | 29956     | 3094      | 43099         |
| 1759 | 2185                             | 818                       | 6414       | 18759     | 3078      | 31254         |
| 1760 | 1723                             | 873                       | 3869       | 22094     | 940       | 29499         |
| 1761 | 2703                             | 735                       | 4383       | 33835     | 1255      | 42911         |
| 1762 | 2943                             | 250                       | 6805       | 38056     | 1845      | 49899         |
| 1763 | 3120                             | 72                        | 2435       | 14354     | 1502      | 21483         |
| 1764 | 2803                             | 40                        | 1836       | 14352     | 270       | 19301         |
| 1765 | 1719                             | 170                       | 2487       | 14454     | 785       | 19615         |
| 1766 | 1116                             | 456                       | 5353       | 13956     | 1129      | 22010         |
| 1767 | 1991                             | 860                       | 4307       | 13997     | 1405      | 22560         |
| 1768 | 1408                             | 388                       | 2768       | 16433     | 587       | 21584         |
| 1769 | 2495                             | 700                       | 3746       | 28688     | 1202      | 36831         |

## Appendix 2.34 (contd.)

Copenhagen consumption tax ledgers.

Registered gross imports liable to consumption tax.

Fresh and smoked beef, *lispund*.

| Year | Christians-<br>havns Gate | North Gate | West Gate | East Gate | Total imports<br>overland |
|------|---------------------------|------------|-----------|-----------|---------------------------|
| 1770 | 568                       | 3051       | 26189     | 992       | 30800                     |
| 1771 | 378                       | 1603       | 14352     | 1022      | 17355                     |
| 1772 | 340                       | 2726       | 38725     | 833       | 42624                     |
| 1773 | 228                       | 1669       | 18454     | 571       | 20922                     |
| 1774 | 328                       | 2081       | 13956     | 1060      | 17425                     |
| 1775 | 378                       | 3122       | 21800     | 1117      | 26417                     |
| 1776 | 791                       | 1426       | 18820     | 701       | 21738                     |
| 1777 | [831]                     | [8497]     | [17762]   | [982]     | [28072]                   |
| 1778 | 870                       | 15567      | 16703     | 1263      | 34403                     |
| 1779 | [761]                     | [10873]    | [28256]   | [1232]    | [41122]                   |
| 1780 | [652]                     | 6179       | 39810     | 1200      | 47841                     |
| 1781 | 544                       | 6903       | 39168     | 1345      | 47960                     |
| 1782 | 263                       | 3795       | 37125     | 938       | 42121                     |
| 1783 | 661                       | 5271       | [43442]   | 800       | [50174]                   |
| 1784 | 195                       | 7646       | 49759     | 844       | 58444                     |
| 1785 | 315                       | 5677       | 56602     | 1065      | 63659                     |
| 1786 | 491                       | 4438       | 72816     | 1194      | 78939                     |
| 1787 | 168                       | 1550       | 56212     | 776       | 58706                     |
| 1788 | 408                       | 2840       | 78683     | 742       | 82673                     |
| 1789 | 247                       | 1025       | 85145     | 765       | 87182                     |
| 1790 | 328                       | 1352       | 93093     | 673       | 95446                     |
| 1791 | 507                       | 3273       | 92389     | 750       | 96919                     |
| 1792 | 451                       | 6877       | [114124]  | 958       | [122410]                  |
| 1793 | 441                       | 8259       | 135859    | 807       | 145366                    |
| 1794 | 507                       | 7253       | [135742]  | 939       | [144441]                  |
| 1795 | 678                       | 14292      | [135625]  | 887       | [151482]                  |
| 1796 | 1604                      | 13379      | 135509    | 844       | 151336                    |
| 1797 | 1799                      | 19181      | [145409]  | 907       | [167296]                  |
| 1798 | 732                       | 21860      | 155308    | 1753      | 179653                    |
| 1799 | 964                       | 25950      | 149851    | 2873      | 179638                    |
| 1800 | 659                       | 37800      | 198292    | 856       | 237607                    |

Appendix 2.35

Copenhagen consumption tax ledgers.

Registered gross imports liable to consumption tax.

Salt beef, barrels.

| Year | The custom house (harbour) | Christianshavns Gate <sup>1)</sup> | North Gate | West Gate <sup>2)</sup> | East Gate | Total imports |
|------|----------------------------|------------------------------------|------------|-------------------------|-----------|---------------|
| 1730 | [2732]                     | 25                                 | 40         | 406                     | 21        | [3224]        |
| 1731 | 1872                       | 20                                 | 1          | 266                     | 103       | 2262          |
| 1732 | 1431                       | 10                                 | 27         | 216                     | 78        | 1762          |
| 1733 | 1651                       | 19                                 | 4          | 148                     | 219       | 2041          |
| 1734 | 1427                       | 13                                 | 18         | 50                      | 137       | 1645          |
| 1735 | 1663                       | 13                                 | 15         | 78                      | 98        | 1867          |
| 1736 | 1997                       | 21                                 | 14         | 113                     | 98        | 2243          |
| 1737 | 1906                       | 22                                 | 33         | [77]                    | 119       | 2157          |
| 1738 | 1376                       | 15                                 | 11         | 40                      | 221       | 1663          |
| 1739 | 1406                       | 14                                 | 15         | [39]                    | 157       | 1631          |
| 1740 | 2575                       | 7                                  | 13         | 37                      | 111       | 2743          |
| 1741 | 1921                       | 10                                 | 19         | 38                      | 102       | 2090          |
| 1742 | 962                        | 7                                  | 5          | 118                     | 3         | 1095          |
| 1743 | 1714                       | 4                                  | 6          | [69]                    | 4         | 1797          |
| 1744 | 2492                       | 6                                  | 5          | 19                      | 4         | 2526          |
| 1745 | 2178                       | 1                                  | 25         | 43                      | 5         | 2252          |
| 1746 | 2352                       | 6                                  | 13         | 32                      | 2         | 2405          |
| 1747 | 1840                       | 0                                  | 12         | 25                      | 2         | 1879          |
| 1748 | 2221                       | 1                                  | 16         | 19                      | 8         | 2265          |
| 1749 | 1258                       | 0                                  | 19         | 95                      | 2         | 1374          |
| 1750 | 1510                       | 0                                  | 29         | 317                     | 1         | 1857          |
| 1751 | 2111                       | 0                                  | 7          | 79                      | 3         | 2200          |
| 1752 | 1983                       | 0                                  | 7          | 23                      | 5         | 2018          |
| 1753 | 2324                       | 0                                  | 6          | 24                      | 2         | 2356          |
| 1754 | 2202                       | 1                                  | 9          | 44                      | 1         | 2257          |
| 1755 | 2314                       | 1                                  | 10         | 34                      | 7         | 2366          |
| 1756 | 3125                       | 11                                 | 18         | 28                      | 5         | 3187          |
| 1757 | 3928                       | 1                                  | 88         | 42                      | 5         | 4064          |
| 1758 | 4510                       | 2                                  | 12         | 14                      | 2         | 4540          |
| 1759 | 3779                       | 16                                 | 24         | 66                      | 13        | 3898          |
| 1760 | 3582                       | 2                                  | 10         | 44                      | 6         | 3644          |
| 1761 | 2219                       | 2                                  | 13         | 26                      | 1         | 2261          |
| 1762 | 3255                       | 0                                  | 25         | [33]                    | 3         | 3316          |
| 1763 | 2099 <sup>3)</sup>         | 1                                  | 17         | 40                      | 2         | 2159          |
| 1764 | 2201 <sup>3)</sup>         | 0                                  | 14         | 36                      | 3         | 2254          |
| 1765 | 3915 <sup>3)</sup>         | 0                                  | 12         | 47                      | 4         | 3978          |
| 1766 | 1869 <sup>3)</sup>         | 0                                  | 13         | 48                      | 4         | 1934          |
| 1767 | 3795 <sup>3)</sup>         | 1                                  | 14         | 36                      | 5         | 3851          |
| 1768 | 3419 <sup>3)</sup>         | 3                                  | 15         | 36                      | 1         | 3474          |
| 1769 | 4061 <sup>3)</sup>         | 3                                  | 14         | 38                      | 5         | 4121          |

## Appendix 2.35 (contd.)

Copenhagen consumption tax ledgers.

Registered gross imports liable to consumption tax.

Salt beef, barrels.

| Year | Christians-<br>havns Gate | North Gate | West Gate | East Gate | Total imports<br>overland |
|------|---------------------------|------------|-----------|-----------|---------------------------|
| 1770 | 10                        | 38         | 27        | 3         | 78                        |
| 1771 | 3                         | 11         | 19        | 3         | 36                        |
| 1772 | 6                         | 7          | 27        | 7         | 47                        |
| 1773 | 2                         | 6          | 19        | 11        | 38                        |
| 1774 | 4                         | 10         | 48        | 5         | 67                        |
| 1775 | 5                         | 8          | 86        | 8         | 107                       |
| 1776 | 3                         | 9          | 54        | 0         | 66                        |
| 1777 | [3]                       | [16]       | [79]      | [3]       | [101]                     |
| 1778 | 2                         | 23         | 103       | 5         | 133                       |
| 1779 | [2]                       | [20]       | [62]      | [3]       | [87]                      |
| 1780 | [3]                       | 17         | 20        | 0         | 40                        |
| 1781 | 3                         | 12         | 64        | 0         | 79                        |
| 1782 | 2                         | 7          | 18        | 0         | 27                        |
| 1783 | 2                         | 25         | [18]      | 0         | [45]                      |
| 1784 | 1                         | 43         | 18        | 0         | 62                        |
| 1785 | 1                         | 73         | 13        | 1         | 88                        |
| 1786 | 2                         | 80         | 292       | 5         | 379                       |
| 1787 | 3                         | 18         | 166       | 1         | 188                       |
| 1788 | 1                         | 1          | 83        | 6         | 91                        |
| 1789 | 2                         | 6          | 28        | 6         | 42                        |
| 1790 | 3                         | 7          | 8         | 3         | 21                        |
| 1791 | 0                         | 11         | 30        | 2         | 43                        |
| 1792 | 0                         | 19         | [33]      | 1         | [53]                      |
| 1793 | 0                         | 56         | 35        | 1         | 92                        |
| 1794 | 0                         | 34         | [85]      | 4         | [123]                     |
| 1795 | 0                         | 11         | [136]     | 2         | [149]                     |
| 1796 | 0                         | 6          | 187       | 4         | 197                       |
| 1797 | 0                         | 7          | [148]     | 2         | [157]                     |
| 1798 | 0                         | 6          | 109       | 2         | 117                       |
| 1799 | 0                         | 7          | 174       | 6         | 187                       |
| 1800 | 0                         | 9          | 360       | 5         | 374                       |

1) In 1730–45 the figures also include tripe and ox tongues, together with pigs' heads and trotters.

2) In 1730–32 the figures also include tripe.

3) Includes also tripe and salt meat other than beef.

## Appendix 2.36

Copenhagen consumption tax ledgers.

Registered gross imports liable to consumption tax.

Milk, barrels.

| Year | The custom<br>house<br>(harbour) | Christians-<br>havns Gate | North Gate | West Gate | East Gate | Total imports |
|------|----------------------------------|---------------------------|------------|-----------|-----------|---------------|
| 1730 | [0]                              | 22476                     | 378        | 1334      | 115       | 24303         |
| 1731 | 0                                | 19710                     | 461        | 1338      | 40        | 21549         |
| 1732 | 0                                | 19167                     | 589        | 1074      | 2         | 20832         |
| 1733 | 1                                | 19107                     | 454        | 1190      | 83        | 20835         |
| 1734 | 1                                | 18399                     | 789        | 1349      | 17        | 20555         |
| 1735 | 1                                | 21826                     | 1295       | 1441      | 5         | 24568         |
| 1736 | 1                                | 22938                     | 1466       | 1588      | 29        | 26022         |
| 1737 | 0                                | 21146                     | 980        | [2029]    | 6         | 24161         |
| 1738 | 1                                | 20652                     | 411        | 2469      | 3         | 23536         |
| 1739 | 1                                | 21220                     | 235        | [2509]    | 44        | [24009]       |
| 1740 | 0                                | 21367                     | 318        | 2548      | 3         | 24236         |
| 1741 | 2                                | 19754                     | 789        | 2476      | 19        | 23040         |
| 1742 | 0                                | 20295                     | 870        | 2192      | 17        | 23374         |
| 1743 | 0                                | 20848                     | 711        | [3065]    | 12        | [24636]       |
| 1744 | 1                                | 22978                     | 393        | 3938      | 13        | 27323         |
| 1745 | 2                                | 20246                     | 335        | 3812      | 175       | 24570         |
| 1746 | 3                                | 6579                      | 56         | 313       | 13        | 6964          |
| 1747 | 1                                | 8340                      | 109        | 610       | 21        | 9081          |
| 1748 | 3                                | 10877                     | 194        | 1546      | 17        | 12637         |
| 1749 | 4                                | 15089                     | 203        | 2130      | 16        | 17442         |
| 1750 | 4                                | 13515                     | 147        | 2047      | 133       | 15846         |
| 1751 | 5                                | 16015                     | 224        | 2927      | 61        | 19232         |
| 1752 | 7                                | 18084                     | 280        | 3160      | 86        | 21617         |
| 1753 | 4                                | 19188                     | 375        | 2986      | 35        | 22588         |
| 1754 | 5                                | 20609                     | 381        | 3326      | 108       | 24429         |
| 1755 | 7                                | 20892                     | 265        | 3536      | 91        | 24791         |
| 1756 | 6                                | 20811                     | 249        | 3424      | 6         | 24496         |
| 1757 | 5                                | 21698                     | 506        | 2656      | 27        | 24892         |
| 1758 | 5                                | 20436                     | 482        | 2504      | 19        | 23446         |
| 1759 | 4                                | 19124                     | 330        | 3417      | 98        | 22973         |
| 1760 | 0                                | 19127                     | 629        | 3985      | 22        | 23763         |
| 1761 | 3                                | 20372                     | 878        | 3960      | 43        | 25256         |
| 1762 | 4                                | 18859                     | 875        | [2833]    | 167       | [22738]       |
| 1763 | 3                                | 10865                     | 229        | 1705      | 150       | 12952         |
| 1764 | 4                                | 15838                     | 751        | 1701      | 35        | 18329         |
| 1765 | 1                                | 18087                     | 283        | 1710      | 114       | 20195         |
| 1766 | 2                                | 17960                     | 893        | 1708      | 20        | 20583         |
| 1767 | 1                                | 16530                     | 1343       | 1599      | 21        | 19494         |
| 1768 | 3                                | 17371                     | 1615       | 1488      | 26        | 20503         |
| 1769 | 1                                | 17025                     | 1629       | 3960      | 120       | 22735         |

## Appendix 2.36 (contd.)

## Copenhagen consumption tax ledgers.

Registered gross imports liable to consumption tax.

Milk, barrels.

| Year | Christians-<br>havns Gate | North Gate | West Gate | East Gate | Total imports<br>overland |
|------|---------------------------|------------|-----------|-----------|---------------------------|
| 1770 | 15258                     | 1235       | 2705      | 70        | 19268                     |
| 1771 | 15838                     | 1114       | [3569]    | 138       | [20659]                   |
| 1772 | 14609                     | 1323       | 4433      | 233       | 20598                     |
| 1773 | 15405                     | 1707       | 3710      | 217       | 21039                     |
| 1774 | 15698                     | 1776       | 1708      | 435       | 19617                     |
| 1775 | 14109                     | 1463       | 728       | 376       | 16676                     |
| 1776 | 15546                     | 1144       | 1048      | 321       | 18059                     |
| 1777 | [17121]                   | [2074]     | [1077]    | [524]     | [20796]                   |
| 1778 | 18695                     | 3003       | 1105      | 726       | 23529                     |
| 1779 | [19311]                   | [2680]     | [1657]    | [672]     | [24320]                   |
| 1780 | [19927]                   | 2356       | 2208      | 617       | [25108]                   |
| 1781 | 20543                     | 1597       | 3316      | 472       | 25928                     |
| 1782 | 21409                     | 1392       | 2300      | 220       | 25321                     |
| 1783 | 21166                     | 2020       | [2657]    | 214       | [26057]                   |
| 1784 | 22258                     | 2814       | 3014      | 299       | 28385                     |
| 1785 | 23370                     | 3435       | 3716      | 1425      | 31946                     |
| 1786 | 23946                     | 3486       | 4424      | 2581      | 34437                     |
| 1787 | 23862                     | 3932       | 4660      | 2944      | 35398                     |
| 1788 | 25180                     | 4319       | 4214      | 2670      | 36383                     |
| 1789 | 25148                     | 5137       | 4524      | 2781      | 37590                     |
| 1790 | 24774                     | 8760       | 5007      | 3016      | 41557                     |
| 1791 | 24764                     | 4805       | 5514      | 3095      | 38178                     |
| 1792 | 24457                     | 5007       | [6696]    | 3318      | [39478]                   |
| 1793 | 24143                     | 5835       | 7878      | 3241      | 41097                     |
| 1794 | 23977                     | 5942       | [7394]    | 3188      | [40501]                   |
| 1795 | 24254                     | 4532       | [6911]    | 4126      | [39823]                   |
| 1796 | 24004                     | 4601       | 6428      | 5475      | 40508                     |
| 1797 | 25444                     | 4973       | [7059]    | 5357      | [42833]                   |
| 1798 | 28219                     | 5611       | 7689      | 5653      | 47172                     |
| 1799 | 26915                     | 3835       | 7598      | 5537      | 43885                     |
| 1800 | 27666                     | 2858       | 8126      | 6069      | 44719                     |



## Appendix 2.37

## Copenhagen consumption tax ledgers.

Registered gross imports liable to consumption tax.

Butter.

| Year | The custom house (harbour) <i>otting</i> | Christians-havns Gate |                         | North Gate    |                         | West Gate     | East Gate     | Total impto <i>otting</i> <sup>2</sup> |
|------|--|-----------------------|-------------------------|---------------|-------------------------|---------------|---------------|--|
|      |  | <i>otting</i>         | <i>kop</i> <sup>1</sup> | <i>otting</i> | <i>kop</i> <sup>1</sup> | <i>otting</i> | <i>otting</i> |  |
| 1730 | [44475]                                  | 1699                  | 43940                   | 1313          | 0                       | 10908         | 294           | [60258]                                |
| 1731 | 49181                                    | 1350                  | 32711                   | 747           | 0                       | 9841          | 151           | 62438                                  |
| 1732 | 47806                                    | 1251                  | 28235                   | 597           | 0                       | 9837          | 81            | 60580                                  |
| 1733 | 44466                                    | 1306                  | 31225                   | 598           | 0                       | 8932          | 122           | 56539                                  |
| 1734 | 38913                                    | 1171                  | 29977                   | 2125          | 0                       | 11006         | 100           | 54386                                  |
| 1735 | 54830                                    | 1727                  | 32654                   | 1144          | 1                       | 13653         | 66            | 72586                                  |
| 1736 | 39477                                    | 1906                  | 28759                   | 1479          | 26                      | 12035         | 51            | 55976                                  |
| 1737 | 59521                                    | 1870                  | 24044                   | 1924          | 2                       | [13036]       | 15            | [77225]                                |
| 1738 | 55765                                    | 1786                  | 24630                   | 1415          | 8                       | 15636         | 57            | 75539                                  |
| 1739 | 54993                                    | 1949                  | 23210                   | 647           | 11                      | [13585]       | 157           | [72160]                                |
| 1740 | 52949                                    | 1997                  | 25511                   | 1173          | 22                      | 11533         | 29            | 68593                                  |
| 1741 | 49053                                    | 1681                  | 26230                   | 2580          | 25                      | 7030          | 112           | 61394                                  |
| 1742 | 53111                                    | 1481                  | 32149                   | 1412          | 30                      | 14925         | 39            | 72117                                  |
| 1743 | 68215                                    | 1630                  | 28774                   | 2214          | 17                      | [15474]       | 40            | [88601]                                |
| 1744 | 58510                                    | 1765                  | 29845                   | 1621          | 36                      | 16023         | 105           | 79091                                  |
| 1745 | 57712                                    | 1683                  | 23681                   | 1672          | 38                      | 15362         | 64            | 77340                                  |
| 1746 | 64189                                    | 73                    | 4828                    | 317           | 78                      | 2754          | 35            | 67543                                  |
| 1747 | 50822                                    | 219                   | 4974                    | 252           | 59                      | 3498          | 31            | 55002                                  |
| 1748 | 52400                                    | 275                   | 7840                    | 831           | 44                      | 6275          | 54            | 60117                                  |
| 1749 | 47404                                    | 658                   | 13596                   | 852           | 10                      | 7625          | 46            | 57071                                  |
| 1750 | 68690                                    | 482                   | 10418                   | 676           | 3                       | 6894          | 50            | 77164                                  |
| 1751 | 71893                                    | 627                   | 12376                   | 765           | 0                       | 8164          | 53            | 81944                                  |
| 1752 | 69534                                    | 811                   | 12875                   | 988           | 0                       | 9370          | 106           | 81269                                  |
| 1753 | 68021                                    | 855                   | 12238                   | 1197          | 0                       | 11070         | 84            | 81664                                  |
| 1754 | 69987                                    | 962                   | 14347                   | 1532          | 0                       | 11975         | 101           | 85069                                  |
| 1755 | 75096                                    | 1149                  | 17155                   | 1116          | 0                       | 13191         | 153           | 91318                                  |
| 1756 | 81547                                    | 1041                  | 12094                   | 733           | 0                       | 12922         | 39            | 96714                                  |
| 1757 | 90364                                    | 1013                  | 10801                   | 935           | 0                       | 23619         | 66            | 116383                                 |
| 1758 | 92699                                    | 792                   | 6768                    | 696           | 0                       | 9068          | 45            | 103542                                 |
| 1759 | 85446                                    | 557                   | 3199                    | 770           | 0                       | 7711          | 47            | 94645                                  |
| 1760 | 78899                                    | 607                   | 2784                    | 1062          | 0                       | 8384          | 82            | 89133                                  |
| 1761 | 60491                                    | 774                   | 3720                    | 1228          | 0                       | 9603          | 105           | 72334                                  |
| 1762 | 78971                                    | 688                   | 3480                    | 1452          | 0                       | [6219]        | 92            | 87546                                  |
| 1763 | 71274                                    | 130                   | 620                     | 536           | 0                       | 2835          | 84            | 74881                                  |
| 1764 | 72116                                    | 443                   | 1480                    | 1434          | 0                       | 2832          | 94            | 76972                                  |
| 1765 | 77913                                    | 474                   | 1048                    | 493           | 0                       | 2835          | 140           | 81892                                  |
| 1766 | 73841                                    | 600                   | 1034                    | 1612          | 0                       | 2736          | 180           | 79006                                  |
| 1767 | 82497                                    | 322                   | 504                     | 1659          | 0                       | 2597          | 40            | 87133                                  |
| 1768 | 88782                                    | 384                   | 414                     | 1040          | 0                       | 5632          | 97            | 95950                                  |
| 1769 | 81546                                    | 364                   | 430                     | 892           | 0                       | 7297          | 150           | 90264                                  |

## Appendix 2.37 (contd.)

Copenhagen consumption tax ledgers.

Registered gross imports liable to consumption tax.

Butter.

| Year | Christians-<br>havns Gate |                          | North Gate    | West Gate     | East Gate     | Total imports<br>overland<br><i>otting</i> <sup>2)</sup> |
|------|---------------------------|--------------------------|---------------|---------------|---------------|--|
|      | <i>otting</i>             | <i>kop</i> <sup>1)</sup> | <i>otting</i> | <i>otting</i> | <i>otting</i> |  |
| 1770 | 312                       | 64                       | 721           | 2416          | 113           | 3564   |
| 1771 | 311                       | 276                      | 535           | 2832          | 80            | 3768   |
| 1772 | 264                       | 16                       | 833           | [3834]        | 88            | [5021]   |
| 1773 | 348                       | 46                       | 1574          | 4835          | 121           | 6880   |
| 1774 | 479                       | 30                       | 1026          | 2754          | 237           | 4497   |
| 1775 | 482                       | 24                       | 815           | 3200          | 55            | 4553   |
| 1776 | 286                       | 8                        | 630           | 4162          | 116           | 5194   |
| 1777 | [389]                     | [7]                      | [2138]        | [5195]        | [135]         | [7857]   |
| 1778 | 491                       | 6                        | 3646          | 6227          | 154           | 10518  |
| 1779 | [398]                     | [6]                      | [4134]        | [12630]       | [199]         | [17361]  |
| 1780 | [306]                     | [6]                      | 4622          | 19032         | 244           | 24204  |
| 1781 | 214                       | 6                        | 1343          | 14044         | 212           | 15813  |
| 1782 | 161                       | 0                        | 1585          | 12907         | 184           | 14837  |
| 1783 | 224                       | 0                        | 1576          | [14687]       | 208           | [16695]  |
| 1784 | 180                       | 0                        | 3275          | 16467         | 124           | 20046  |
| 1785 | 239                       | 3                        | 1603          | 20295         | 59            | 22196  |
| 1786 | 275                       | 2                        | 865           | 20542         | 252           | 21934  |
| 1787 | 319                       | 3                        | 914           | 21396         | 284           | 22913  |
| 1788 | 324                       | 11                       | 883           | 23384         | 161           | 24752  |
| 1789 | 319                       | 4                        | 806           | 25080         | 127           | 26332  |
| 1790 | 346                       | 2                        | 881           | 41568         | 191           | 42986  |
| 1791 | 472                       | 9                        | 957           | 26596         | 85            | 28110  |
| 1792 | 441                       | 0                        | 901           | [27517]       | 121           | [28980]  |
| 1793 | 268                       | 0                        | 1620          | 28437         | 28            | 30353  |
| 1794 | 364                       | 0                        | 806           | [29865]       | 88            | [31123]  |
| 1795 | 323                       | 0                        | 1324          | [31294]       | 140           | [33081]  |
| 1796 | 261                       | 0                        | 1301          | 32723         | 330           | 34615  |
| 1797 | 265                       | 0                        | 2423          | [36034]       | 190           | [38912]  |
| 1798 | 218                       | 0                        | 2919          | 39345         | 202           | 42684  |
| 1799 | 184                       | 0                        | 1613          | 41110         | 194           | 43101  |
| 1800 | 210                       | 0                        | 1574          | 42978         | 152           | 44914  |

1) 1 *kop* is equivalent to about 1 *pund*, cf LA Kbh, Gissfeldt husholdningsregnskab 1712  $1/0-4/0$  and 1713  $0/5-22/5$ . 1 *otting* = 28 *pund*, cf Friis and Glammann: A history of prices and wages in Denmark 1660–1800, Copenhagen 1958, p. 138.

2) The conversion factor used is 1 *kop* =  $1/28$  *otting* cf note 1.

## Appendix 2.38

Copenhagen consumption tax ledgers.

Registered gross imports liable to consumption tax.

Cheese, *lispund*.

| Year | The custom<br>house<br>(harbour) | Christians-<br>havns Gate | North Gate | West Gate | East Gate | Total imports |
|------|----------------------------------|---------------------------|------------|-----------|-----------|---------------|
| 1730 | [47527]                          | 3                         | 377        | 2893      | 71        | [50871]       |
| 1731 | 47458                            | 1                         | 158        | 2199      | 45        | 49861         |
| 1732 | 58021                            | 0                         | 135        | 1570      | 38        | 59764         |
| 1733 | 57104                            | 0                         | 95         | 2056      | 20        | 59275         |
| 1734 | 51423                            | 1                         | 593        | 1880      | 42        | 53939         |
| 1735 | 54805                            | 1                         | 220        | 2324      | 25        | 57375         |
| 1736 | 53134                            | 5                         | 174        | 1437      | 11        | 54761         |
| 1737 | 41258                            | 1                         | 217        | [2238]    | 5         | 43719         |
| 1738 | 52008                            | 2                         | 109        | 3038      | 30        | 55187         |
| 1739 | 57547                            | 5                         | 34         | [2389]    | 37        | 60012         |
| 1740 | 45358                            | 5                         | 119        | 1739      | 14        | 47235         |
| 1741 | 43203                            | 2                         | 413        | 2623      | 12        | 46253         |
| 1742 | 48665                            | 12                        | 244        | 2272      | 35        | 51228         |
| 1743 | 61052                            | 2                         | 457        | [2782]    | 135       | 64428         |
| 1744 | 65105                            | 6                         | 299        | 3292      | 34        | 68736         |
| 1745 | 61821                            | 3                         | 177        | 2628      | 50        | 64679         |
| 1746 | 55392                            | 4                         | 179        | 1607      | 24        | 57206         |
| 1747 | 31674                            | 1                         | 190        | 1623      | 47        | 33535         |
| 1748 | 32705                            | 5                         | 214        | 2358      | 52        | 35334         |
| 1749 | 31771                            | 0                         | 303        | 2100      | 117       | 34291         |
| 1750 | 44758                            | 6                         | 223        | 2229      | 34        | 47250         |
| 1751 | 46777                            | 7                         | 176        | 2036      | 40        | 49036         |
| 1752 | 44818                            | 1                         | 128        | 2419      | 29        | 47395         |
| 1753 | 54436                            | 5                         | 168        | 3033      | 26        | 57668         |
| 1754 | 58430                            | 13                        | 131        | 2886      | 21        | 61481         |
| 1755 | 57198                            | 15                        | 145        | 1475      | 53        | 58886         |
| 1756 | 58829                            | 1                         | 112        | 1555      | 23        | 60520         |
| 1757 | 71749                            | 8                         | 152        | 1923      | 20        | 73852         |
| 1758 | 73919                            | 72                        | 127        | 1608      | 31        | 75757         |
| 1759 | 50207                            | 4                         | 120        | 2127      | 25        | 52483         |
| 1760 | 63739                            | 4                         | 165        | 1871      | 22        | 65801         |
| 1761 | 36849                            | 4                         | 220        | 1589      | 35        | 38697         |
| 1762 | 36983                            | 0                         | 245        | [1347]    | 58        | 38633         |
| 1763 | 51360                            | 10                        | 131        | 1104      | 67        | 52672         |
| 1764 | 51614                            | 0                         | 520        | 754       | 107       | 52995         |
| 1765 | 59886                            | 0                         | 103        | 765       | 66        | 60820         |
| 1766 | 50476                            | 20                        | 327        | 1607      | 41        | 52471         |
| 1767 | 60304                            | 7                         | 393        | 1327      | 22        | 62053         |
| 1768 | 59066                            | 111                       | 224        | 1444      | 37        | 60882         |
| 1769 | 59392                            | 3                         | 177        | 837       | 23        | 60432         |

Appendix 2.38 (contd.)

Copenhagen consumption tax ledgers.

Registered gross imports liable to consumption tax.

Cheese, *lispund*.

| Year | Christians-<br>havns Gate | North Gate | West Gate | East Gate | Total imports<br>overland |
|------|---------------------------|------------|-----------|-----------|---------------------------|
| 1770 | 2                         | 148        | 838       | 28        | 1016                      |
| 1771 | 0                         | 198        | 664       | 7         | 869                       |
| 1772 | 5                         | 241        | 2035      | 35        | 2316                      |
| 1773 | 12                        | 554        | 765       | 34        | 1365                      |
| 1774 | 6                         | 281        | 1619      | 73        | 1979                      |
| 1775 | 5                         | 255        | 1214      | 24        | 1498                      |
| 1776 | 0                         | 145        | 1320      | 33        | 1498                      |
| 1777 | [2]                       | [556]      | [1416]    | [61]      | [2035]                    |
| 1778 | 3                         | 966        | 1512      | 89        | 2570                      |
| 1779 | [3]                       | [1084]     | [1212]    | [64]      | [2363]                    |
| 1780 | [2]                       | 1202       | 912       | 38        | 2154                      |
| 1781 | 2                         | 311        | 1416      | 10        | 1739                      |
| 1782 | 2                         | 321        | 1012      | 0         | 1335                      |
| 1783 | 1                         | 503        | [1412]    | 42        | [1958]                    |
| 1784 | 8                         | 632        | 1812      | 9         | 2461                      |
| 1785 | 2                         | 576        | 2216      | 23        | 2817                      |
| 1786 | 17                        | 224        | 2012      | 53        | 2306                      |
| 1787 | 6                         | 241        | 3014      | 56        | 3317                      |
| 1788 | 12                        | 223        | 3764      | 38        | 4037                      |
| 1789 | 11                        | 186        | 2753      | 38        | 2988                      |
| 1790 | 16                        | 125        | 3216      | 61        | 3418                      |
| 1791 | 17                        | 78         | 2884      | 30        | 3009                      |
| 1792 | 13                        | 96         | [3327]    | 33        | [3469]                    |
| 1793 | 13                        | 116        | 3769      | 29        | 3927                      |
| 1794 | 37                        | 98         | [3744]    | 63        | [3942]                    |
| 1795 | 14                        | 76         | [3720]    | 51        | [3861]                    |
| 1796 | 13                        | 80         | 3696      | 225       | 4014                      |
| 1797 | 8                         | 77         | [4412]    | 63        | [4560]                    |
| 1798 | 10                        | 95         | 5127      | 124       | 5356                      |
| 1799 | 22                        | 80         | 5098      | 53        | 5253                      |
| 1800 | 17                        | 96         | 5327      | 116       | 5556                      |

Appendix 2.41

Copenhagen consumption tax ledgers.

Registered gross imports liable to consumption tax.  
Hogs.

| Year | The custom house (harbour) | Christianshavns Gate | North Gate | West Gate | East Gate | Total imports |
|------|----------------------------|----------------------|------------|-----------|-----------|---------------|
| 1730 | [36]                       | 150                  | 4443       | 7536      | 258       | 12423         |
| 1731 | 49                         | 103                  | 3910       | 7530      | 396       | 11988         |
| 1732 | 46                         | 146                  | 3610       | 9736      | 386       | 13924         |
| 1733 | 49                         | 109                  | 3122       | 11507     | 254       | 15041         |
| 1734 | 35                         | 61                   | 1200       | 13586     | 258       | 15140         |
| 1735 | 34                         | 80                   | 1114       | 13929     | 122       | 15279         |
| 1736 | 23                         | 64                   | 1049       | 14757     | 100       | 15993         |
| 1737 | 48                         | 86                   | 1430       | [13855]   | 102       | [15521]       |
| 1738 | 53                         | 32                   | 1188       | 12952     | 115       | 14340         |
| 1739 | 34                         | 94                   | 705        | [12997]   | 291       | [14121]       |
| 1740 | 48                         | 95                   | 820        | 13041     | 117       | 14121         |
| 1741 | 33                         | 126                  | 1171       | 18961     | 155       | 20446         |
| 1742 | 1                          | 154                  | 975        | 16684     | 172       | 17986         |
| 1743 | 27                         | 150                  | 1466       | [14199]   | 92        | [15934]       |
| 1744 | 25                         | 107                  | 1136       | 11714     | 136       | 13118         |
| 1745 | 43                         | 206                  | 1428       | 14041     | 127       | 15845         |
| 1746 | 89                         | 512                  | 1664       | 14699     | 203       | 17167         |
| 1747 | 46                         | 260                  | 1165       | 13922     | 135       | 15528         |
| 1748 | 25                         | 277                  | 1740       | 14960     | 185       | 17187         |
| 1749 | 28                         | 204                  | 1220       | 13636     | 167       | 15255         |
| 1750 | 67                         | 150                  | 1376       | 12574     | 153       | 14320         |
| 1751 | 70                         | 113                  | 2058       | 12605     | 180       | 15026         |
| 1752 | 37                         | 100                  | 1879       | 13565     | 190       | 15771         |
| 1753 | 19                         | 111                  | 2231       | 19018     | 236       | 21615         |
| 1754 | 56                         | 115                  | 3144       | 16288     | 169       | 19772         |
| 1755 | 32                         | 149                  | 1648       | 16578     | 104       | 18511         |
| 1756 | 59                         | 139                  | 1149       | 14255     | 126       | 15728         |
| 1757 | 159                        | 117                  | 750        | 15349     | 91        | 16466         |
| 1758 | 131                        | 109                  | 568        | 16046     | 131       | 16985         |
| 1759 | 87                         | 168                  | 516        | 17390     | 103       | 18264         |
| 1760 | 65                         | 201                  | 621        | 15121     | 160       | 16168         |
| 1761 | 29                         | 72                   | 829        | 13194     | 97        | 14221         |
| 1762 | 31                         | 135                  | 1062       | [17498]   | 112       | [18838]       |
| 1763 | 62                         | 616                  | 1563       | 21801     | 120       | 24162         |
| 1764 | 45                         | 462                  | 1036       | 20020     | 147       | 21710         |
| 1765 | 17                         | 466                  | 660        | 22420     | 187       | 23750         |
| 1766 | 14                         | 464                  | 891        | 33560     | 201       | 35130         |
| 1767 | 17                         | 932                  | 907        | 32989     | 117       | 34962         |
| 1768 | 25                         | 484                  | 945        | 32923     | 149       | 34526         |
| 1769 | 37                         | 520                  | 811        | 30501     | 119       | 31988         |

Appendix 2.41 (contd.)

Copenhagen consumption tax ledgers.

Registered gross imports liable to consumption tax.

Hogs.

| Year | Christians-<br>havns Gate | North Gate | West Gate          | East Gate | Total imports<br>overland |
|------|---------------------------|------------|--------------------|-----------|---------------------------|
| 1770 | 560                       | 841        | 27791              | 266       | 29458                     |
| 1771 | 602                       | 780        | 22389              | 213       | 23984                     |
| 1772 | 586                       | 664        | 8781 <sup>1)</sup> | 112       | 10143                     |
| 1773 | 418                       | 544        | 14814              | 164       | 15940                     |
| 1774 | 372                       | 597        | 18991              | 89        | 20049                     |
| 1775 | 346                       | 490        | 4840               | 96        | 5772                      |
| 1776 | 478                       | 655        | 10657              | 105       | 11895                     |
| 1777 | [448]                     | [973]      | [10076]            | [108]     | [11605]                   |
| 1778 | 418                       | 1291       | 9495               | 110       | 11314                     |
| 1779 | [541]                     | [1444]     | [8919]             | [107]     | [11011]                   |
| 1780 | [665]                     | 1596       | 8342               | 104       | 10707                     |
| 1781 | 789                       | 1028       | 10062              | 186       | 12065                     |
| 1782 | 703                       | 705        | 10051              | 189       | 11648                     |
| 1783 | 785                       | 514        | [8539]             | 174       | [10012]                   |
| 1784 | [799]                     | 1152       | 7027               | 96        | 9074                      |
| 1785 | 813                       | 855        | 7794               | 108       | 9570                      |
| 1786 | 756                       | 528        | 7430               | 100       | 8814                      |
| 1787 | 848                       | 631        | 6397               | 89        | 7965                      |
| 1788 | 764                       | 539        | 5523               | 85        | 6911                      |
| 1789 | 754                       | 1158       | 6858               | 98        | 8868                      |
| 1790 | 774                       | 1451       | 6524               | 71        | 8820                      |
| 1791 | 691                       | 1680       | 6414               | 86        | 8871                      |
| 1792 | 898                       | 2146       | [7495]             | 76        | [10615]                   |
| 1793 | 1279                      | 2442       | 8575               | 76        | 12372                     |
| 1794 | 1088                      | 2767       | [8690]             | 106       | [12651]                   |
| 1795 | 829                       | 1944       | [8806]             | 110       | [11689]                   |
| 1796 | 892                       | 1332       | 8922               | 209       | 11355                     |
| 1797 | 1067                      | 1154       | [9423]             | 109       | [11753]                   |
| 1798 | 778                       | 907        | 9925               | 194       | 11804                     |
| 1799 | 857                       | 867        | 9855               | 148       | 11727                     |
| 1800 | 511                       | 916        | 6550               | 127       | 8104                      |

1) The figures agree with the sums recorded as paid in duty.

## Appendix 2.42

Copenhagen consumption tax ledgers.

Registered gross imports liable to consumption tax.

Bacon, flitches.

| Year | The custom house (harbour) | Christianshavns Gate | North Gate | West Gate | East Gate | Total imports |
|------|----------------------------|----------------------|------------|-----------|-----------|---------------|
| 1730 | [24201]                    | 86                   | 491        | 10930     | 73        | [35781]       |
| 1731 | 26926                      | 104                  | 2404       | 10416     | 86        | 39936         |
| 1732 | 27544                      | 101                  | 2253       | 9909      | 119       | 39926         |
| 1733 | 27932                      | 106                  | 527        | 16934     | 169       | 45668         |
| 1734 | 26430                      | 19                   | 2101       | 17776     | 145       | 46471         |
| 1735 | 19638                      | 33                   | 409        | 19725     | 27        | 39832         |
| 1736 | 10940                      | 17                   | 427        | 18588     | 33        | 30005         |
| 1737 | 24282                      | 54                   | 338        | [22952]   | 37        | [47663]       |
| 1738 | 22307                      | 75                   | 1025       | 27315     | 67        | 50789         |
| 1739 | 18782                      | 62                   | 453        | [23257]   | 54        | [42608]       |
| 1740 | 24807                      | 119                  | 364        | 19199     | 43        | 44532         |
| 1741 | 25707                      | 28                   | 1083       | 17411     | 52        | 44281         |
| 1742 | 17517                      | 40                   | 561        | 18354     | 25        | 36497         |
| 1743 | 26159                      | 25                   | 741        | [21661]   | 82        | [48668]       |
| 1744 | 23674                      | 25                   | 751        | 24968     | 83        | 49501         |
| 1745 | 29210                      | 36                   | 1228       | 29054     | 74        | 59602         |
| 1746 | 32580                      | 173                  | 1257       | 29491     | 71        | 63572         |
| 1747 | 32431                      | 113                  | 933        | 29181     | 66        | 62724         |
| 1748 | 33416                      | 67                   | 1241       | 33576     | 81        | 68381         |
| 1749 | 24564                      | 71                   | 1342       | 28325     | 138       | 54440         |
| 1750 | 24812                      | 187                  | 1032       | 31099     | 112       | 57242         |
| 1751 | 25714                      | 430                  | 859        | 37657     | 162       | 64822         |
| 1752 | 22625                      | 228                  | 1636       | 41136     | 225       | 65850         |
| 1753 | 29617                      | 159                  | 1347       | 38880     | 267       | 70270         |
| 1754 | 23885                      | 129                  | 1895       | 38865     | 187       | 64961         |
| 1755 | 27659                      | 142                  | 961        | 36451     | 79        | 65292         |
| 1756 | 28589                      | 122                  | 1072       | 35350     | 99        | 65232         |
| 1757 | 29673                      | 287                  | 1210       | 35140     | 104       | 66414         |
| 1758 | 26814                      | 131                  | 975        | 48690     | 179       | 76789         |
| 1759 | 27615                      | 112                  | 791        | 33631     | 137       | 62286         |
| 1760 | 25715                      | 145                  | 1286       | 25035     | 75        | 52256         |
| 1761 | 33519                      | 180                  | 2353       | 48686     | 69        | 84807         |
| 1762 | 53238                      | 98                   | 2869       | [38347]   | 105       | [94657]       |
| 1763 | 17343                      | 206                  | 3088       | 28008     | 100       | 48745         |
| 1764 | 18240                      | 190                  | 4077       | 28009     | 199       | 50715         |
| 1765 | 27238                      | 158                  | 3798       | 28199     | 215       | 59608         |
| 1766 | 31084                      | 202                  | 6149       | 29491     | 278       | 67204         |
| 1767 | 17773                      | 162                  | 4673       | 29596     | 71        | 52275         |
| 1768 | 28925                      | 62                   | 5830       | 18686     | 337       | 53840         |
| 1769 | 26922                      | 126                  | 3636       | 32813     | 185       | 63682         |

## Appendix 2.42 (contd.)

## Copenhagen consumption tax ledgers.

Registered gross imports liable to consumption tax.  
3acon.

| Year | Christians-<br>havns Gate |        | North Gate |        | West Gate |        | East Gate |        | Total imports<br>overland |        |
|------|---------------------------|--------|------------|--------|-----------|--------|-----------|--------|---------------------------|--------|
|      | flitches                  | lispd. | flitches   | lispd. | flitches  | lispd. | flitches  | lispd. | flitches                  | lispd. |
| 1770 | 58                        | 0      | 2451       | 0      | 25236     | 0      | 176       | 0      | 27921                     | 0      |
| 1771 | 145                       | 0      | 2023       | 0      | 26816     | 0      | 206       | 0      | 29190                     | 0      |
| 1772 | 134                       | 0      | 1618       | 0      | 31078     | 0      | 100       | 0      | 32930                     | 0      |
| 1773 | 18                        | 0      | 1969       | 0      | 24299     | 0      | 128       | 0      | 26414                     | 0      |
| 1774 | 20                        | 0      | 2143       | 0      | 29491     | 0      | 167       | 0      | 31821                     | 0      |
| 1775 | 88                        | 0      | 2005       | 0      | 24000     | 0      | 107       | 0      | 26200                     | 0      |
| 1776 | 85                        | 0      | 2526       | 0      | 30200     | 0      | 114       | 0      | 32925                     | 0      |
| 1777 | [86]                      | [0]    | [4066]     | [0]    | [35116]   | [0]    | [107]     | [0]    | [39375]                   | [0]    |
| 1778 | 86                        | 0      | 5605       | 0      | 40031     | 0      | 99        | 0      | 45821                     | 0      |
| 1779 | [65]                      | [0]    | [5597]     | [0]    | [42634]   | [0]    | [390]     | [0]    | [48686]                   | [0]    |
| 1780 | [45]                      | [0]    | 5589       | 0      | 45236     | 0      | 681       | 0      | 51551                     | 0      |
| 1781 | 25                        | 0      | 3366       | 0      | 34181     | 0      | 226       | 0      | 37798                     | 0      |
| 1782 | 19                        | 0      | 3250       | 0      | 27682     | 0      | 288       | 0      | 31239                     | 0      |
| 1783 | 21                        | 0      | 3516       | 0      | [29281]   | [0]    | 304       | 0      | [33122]                   | [0]    |
| 1784 | 11                        | 0      | 3606       | 0      | 30880     | 0      | 268       | 0      | 34765                     | 0      |
| 1785 | 31                        | 0      | 3698       | 0      | 37760     | 0      | 225       | 0      | 41714                     | 0      |
| 1786 | 29                        | 0      | 2668       | 0      | 32259     | 0      | 232       | 0      | 35188                     | 0      |
| 1787 | 41                        | 0      | 1733       | 0      | 33493     | 0      | 280       | 0      | 35547                     | 0      |
| 1788 | 78                        | 0      | 1634       | 0      | 42294     | 0      | 283       | 0      | 44289                     | 0      |
| 1789 | 39                        | 0      | 793        | 0      | 43004     | 0      | 313       | 0      | 44149                     | 0      |
| 1790 | 66                        | 0      | 638        | 0      | 45831     | 0      | 158       | 0      | 46693                     | 0      |
| 1791 | 48                        | 0      | 927        | 0      | 46244     | 0      | 170       | 0      | 47389                     | 0      |
| 1792 | 48                        | 0      | 1282       | 0      | [45030]   | [0]    | 91        | 0      | [46451]                   | [0]    |
| 1793 | 44                        | 0      | 2769       | 0      | 43815     | 0      | 160       | 0      | 46788                     | 0      |
| 1794 | 43                        | 0      | 1188       | 0      | [44132]   | [0]    | 160       | 0      | [45523]                   | [0]    |
| 1795 | 37                        | 0      | 1914       | 0      | [44449]   | [0]    | 420       | 0      | [46820]                   | [0]    |
| 1796 | 40                        | 0      | 2095       | 0      | 44767     | 0      | 606       | 0      | 47508                     | 0      |
| 1797 | 31                        | 0      | 2468       | 588    | [48692]   | [0]    | 346       | 9      | [51537]                   | [597]  |
| 1798 | 43                        | 14     | 3121       | 782    | 52616     | 0      | 629       | 200    | 56409                     | 996    |
| 1799 | 24                        | 14     | 1865       | 716    | 49977     | 0      | 236       | 191    | 52102                     | 921    |
| 1800 | 11                        | 15     | 1174       | 975    | 26182     | 0      | 201       | 94     | 27568                     | 1084   |



Appendix 2.43

Copenhagen consumption tax ledgers.

Registered gross imports liable to consumption tax.

Figs.

| Year | The custom house (harbour) | Christianshavns Gate | North Gate | West Gate           | East Gate         | Total imports |
|------|----------------------------|----------------------|------------|---------------------|-------------------|---------------|
| 1730 | [30]                       | 1425                 | 426        | 915                 | 116               | 2912          |
| 1731 | 50                         | 1991                 | 586        | 2000                | 197               | 4824          |
| 1732 | 42                         | 1560                 | 645        | 1600                | 146               | 3993          |
| 1733 | 25                         | 1849                 | 607        | 2092                | 127               | 4700          |
| 1734 | 33                         | 1673                 | 804        | 1494                | 212               | 4216          |
| 1735 | 30                         | 1650                 | 472        | 1710                | 118               | 3980          |
| 1736 | 57                         | 1857                 | 721        | 2256                | 167               | 5058          |
| 1737 | 13                         | 1724                 | 337        | [2139]              | 69                | [4282]        |
| 1738 | 21                         | 1744                 | 625        | 2022                | 145               | 4557          |
| 1739 | 25                         | 1877                 | 338        | [1663]              | 177               | [4080]        |
| 1740 | 12                         | 1652                 | 353        | 1303                | 30                | 3350          |
| 1741 | 0                          | 1975                 | 742        | 1523                | 76                | 4316          |
| 1742 | 14                         | 1667                 | 642        | 1870                | 91                | 4284          |
| 1743 | 16                         | 2040                 | 805        | [2353]              | 70                | [5284]        |
| 1744 | 66                         | 2077                 | 820        | 2835                | 81                | 5879          |
| 1745 | 18                         | 1811                 | 743        | 2339                | 41                | 4952          |
| 1746 | 55                         | 1794                 | 896        | 3311                | 86                | 6142          |
| 1747 | 48                         | 2694                 | 969        | 3487                | 151               | 7349          |
| 1748 | 11                         | 2840                 | 643        | 2567                | 104               | 6165          |
| 1749 | 12                         | 1865                 | 474        | 1567                | 63                | 3981          |
| 1750 | 5                          | 1603                 | 695        | 1848                | 67                | 4218          |
| 1751 | 7                          | 1981                 | 635        | 1706                | 74                | 4403          |
| 1752 | 5                          | 1952                 | 906        | 1772                | 112               | 4747          |
| 1753 | 7                          | 1599                 | 679        | 1778                | 80                | 4143          |
| 1754 | 11                         | 1637                 | 1122       | 1723                | 160               | 4653          |
| 1755 | 17 <sup>1)</sup>           | 1790                 | 822        | 2136                | 108               | 4873          |
| 1756 | 12                         | 1408                 | 535        | 1820                | 72                | 3847          |
| 1757 | 9                          | 1136                 | 749        | 1757                | 91                | 3742          |
| 1758 | 7                          | 1092                 | 509        | 3301                | 47                | 4956          |
| 1759 | 15                         | 1049                 | 866        | 2785                | 140               | 4855          |
| 1760 | 9                          | 1195                 | 496        | [9761 <sup>3)</sup> | 38                | 21499         |
| 1761 | 13                         | 1291                 | 1361       | 1392                | 185               | 4242          |
| 1762 | 13                         | 1232                 | 1141       | [1290]              | 167               | [3843]        |
| 1763 | 24 <sup>2)</sup>           | 1626                 | 909        | 1187                | 158               | 3904          |
| 1764 | 18 <sup>2)</sup>           | 1736                 | 1585       | [2245]              | 246               | [5830]        |
| 1765 | 17                         | 1254                 | 372        | 3302                | 153               | 5098          |
| 1766 | 10 <sup>2)</sup>           | 1230                 | 1294       | 3311                | 141               | 5986          |
| 1767 | 19                         | 1814                 | 926        | 3518                | 116               | 6393          |
| 1768 | 20                         | 1526                 | 925        | 3249                | 186 <sup>4)</sup> | 5906          |
| 1769 | 18                         | 1214                 | 487        | 836                 | 112               | 2667          |

## Appendix 2.43 (contd.)

Copenhagen consumption tax ledgers.

Registered gross imports liable to consumption tax.

Pigs.

| Year | Christians-<br>havns Gate | North Gate        | West Gate         | East Gate | Total imports<br>overland |
|------|---------------------------|-------------------|-------------------|-----------|---------------------------|
| 1770 | 854                       | 1010              | 412 <sup>5)</sup> | 191       | 2467                      |
| 1771 | 754                       | 438               | 316               | 106       | 1614                      |
| 1772 | 432                       | 873               | 2082              | 128       | 3515                      |
| 1773 | 312                       | 814               | 3302              | 122       | 4550                      |
| 1774 | 414                       | 848               | 3311              | 190       | 4763                      |
| 1775 | 434                       | 857               | 2048              | 139       | 3478                      |
| 1776 | 682                       | 349               | 2770              | 78        | 3879                      |
| 1777 | [694]                     | [666]             | [3386]            | [104]     | [4850]                    |
| 1778 | 705                       | 983               | 4001              | 129       | 5818                      |
| 1779 | [671]                     | [1069]            | [2001]            | [142]     | [3883]                    |
| 1780 | [637]                     | 1154              | 0                 | 155       | 1946                      |
| 1781 | 604                       | 764               | 912               | 198       | 2478                      |
| 1782 | 480                       | 408               | 0                 | 142       | 1030                      |
| 1783 | 580                       | 1596              | [0]               | 173       | 2349                      |
| 1784 | 390                       | 1063              | 0                 | 0         | 1453                      |
| 1785 | 556                       | 1063              | 0                 | 86        | 1705                      |
| 1786 | 860                       | 934               | 2016              | 242       | 4052                      |
| 1787 | 635                       | 679               | 1512              | 233       | 3059                      |
| 1788 | 794                       | 263               | 1656              | 281       | 2994                      |
| 1789 | 690                       | 1216              | 1412              | 278       | 3596                      |
| 1790 | 587                       | 942 <sup>2)</sup> | 1264              | 285       | 3078                      |
| 1791 | 748                       | 1012              | 3412              | 352       | 5524                      |
| 1792 | 643                       | 988               | [3138]            | 197       | [4966]                    |
| 1793 | 854                       | 898               | 2864              | 231       | 4847                      |
| 1794 | 549                       | 784               | [3114]            | 239       | [4686]                    |
| 1795 | 303                       | 595               | [3364]            | 125       | [4387]                    |
| 1796 | 554                       | 602               | 3615              | 232       | 5003                      |
| 1797 | 555                       | 400               | [3764]            | 237       | [4956]                    |
| 1798 | 399                       | 514               | 3912              | 434       | 5259                      |
| 1799 | 317                       | 489               | 3907              | 279       | 4992                      |
| 1800 | 192                       | 516               | 2713              | 175       | 3596                      |

1) Described as "sucking-pigs".

2) Described as "pigs for roasting".

3) Sic!

4) The source states 185<sup>1</sup>/<sub>2</sub> pairs, which has been taken as a transcription error for 185<sup>1</sup>/<sub>2</sub> head, since pigs are never otherwise counted in pairs.

5) Described as "small pigs".

## Appendix 2.51

## Copenhagen consumption tax ledgers.

Registered gross imports liable to consumption tax.  
(Lambs<sup>1</sup>).

| Year | The custom<br>house<br>(harbour) | Christians-<br>havns Gate | North Gate | West Gate | East Gate | Total imports |
|------|----------------------------------|---------------------------|------------|-----------|-----------|---------------|
| 1730 | [92]                             | 2954                      | 21150      | 29214     | 1613      | 55023         |
| 1731 | 97                               | 3607                      | 19303      | 28921     | 2218      | 54146         |
| 1732 | 134                              | 3550                      | 24796      | 24093     | 1456      | 54029         |
| 1733 | 145                              | 4206                      | 26518      | 26197     | 1520      | 58586         |
| 1734 | 116                              | 4277                      | 36695      | 19042     | 1608      | 61738         |
| 1735 | 72                               | 3743                      | 27687      | 22787     | 1580      | 55869         |
| 1736 | 56                               | 2997                      | 16678      | 11952     | 513       | 32196         |
| 1737 | 65                               | 2655                      | 21742      | [17597]   | 185       | [42244]       |
| 1738 | 130                              | 3131                      | 24167      | 23241     | 839       | 51508         |
| 1739 | 88                               | 3735                      | 16231      | [25446]   | 3348      | [48848]       |
| 1740 | 54                               | 2952                      | 19760      | 27650     | 960       | 51376         |
| 1741 | 88                               | 2868                      | 25271      | 15148     | 1053      | 44428         |
| 1742 | 80                               | 2567                      | 20894      | 16401     | 859       | 40801         |
| 1743 | 78                               | 2448                      | 21478      | [24537]   | 1521      | [50062]       |
| 1744 | 87                               | 2720                      | 22725      | 32672     | 1137      | 59341         |
| 1745 | 109                              | 2424                      | 22585      | 31977     | 1173      | 58268         |
| 1746 | 266                              | 3584                      | 17854      | 30666     | 1401      | 53771         |
| 1747 | 235                              | 4561                      | 25282      | 45665     | 1581      | 77324         |
| 1748 | 184                              | 4222                      | 18311      | 52539     | 1823      | 77079         |
| 1749 | 113                              | 4197                      | 17853      | 53735     | 1267      | 77165         |
| 1750 | 184                              | 4696                      | 23554      | 54019     | 931       | 83384         |
| 1751 | 120                              | 5154                      | 22559      | 56492     | 734       | 85059         |
| 1752 | 39                               | 4452                      | 23227      | 56869     | 676       | 85263         |
| 1753 | 89                               | 4432                      | 21782      | 54081     | 577       | 80961         |
| 1754 | 87                               | 3849                      | 21341      | 44194     | 506       | 69977         |
| 1755 | 122                              | 4558                      | 17062      | 46366     | 734       | 68842         |
| 1756 | 95                               | 4665                      | 21170      | 43074     | 559       | 69563         |
| 1757 | 105                              | 4881                      | 23022      | 43633     | 480       | 72121         |
| 1758 | 192                              | 4436                      | 21889      | 40323     | 185       | 67025         |
| 1759 | 160                              | 3916                      | 23960      | 35926     | 659       | 64621         |
| 1760 | 169                              | 4054                      | 27785      | 26678     | 513       | 59199         |
| 1761 | 183                              | 4533                      | 26050      | 39832     | 645       | 71243         |
| 1762 | 179                              | 4608                      | 22343      | [34178]   | 999       | [62307]       |
| 1763 | 426                              | 4852                      | 19104      | 28524     | 867       | 53773         |
| 1764 | 319                              | 4908                      | 22575      | 28421     | 2019      | 58242         |
| 1765 | 79                               | 4732                      | 23750      | 36418     | 2838      | 67817         |
| 1766 | 95                               | 4640                      | 28800      | 30666     | 1173      | 65374         |
| 1767 | 89                               | 5120                      | 31123      | 34500     | 1030      | 71862         |
| 1768 | 207                              | 5012                      | 32325      | 34993     | 414       | 72951         |
| 1769 | 134                              | 5106                      | 31012      | 32350     | 262       | 68864         |

## Appendix 2.51 (contd.)

Copenhagen consumption tax ledgers.

Registered gross imports liable to consumption tax.  
Lambs<sup>1)</sup>.

| Year | Christians-<br>havns Gate | North Gate | West Gate | East Gate | Total imports<br>overland |
|------|---------------------------|------------|-----------|-----------|---------------------------|
| 1770 | 5332                      | 29288      | 32280     | 230       | 67130                     |
| 1771 | 4286                      | 29009      | 28501     | 204       | 62000                     |
| 1772 | 3632                      | 24412      | 34909     | 427       | 63380                     |
| 1773 | 4346                      | 26570      | 25443     | 576       | 56935                     |
| 1774 | 4451                      | 30323      | 26118     | 315       | 61207                     |
| 1775 | 4697                      | 29853      | 38105     | 278       | 72933                     |
| 1776 | 4297                      | 29350      | 30479     | 149       | 64275                     |
| 1777 | [4260]                    | [29138]    | [33958]   | [196]     | [67552]                   |
| 1778 | 4222                      | 28926      | 37437     | 243       | 70828                     |
| 1779 | [4533]                    | [35890]    | [37693]   | [244]     | [78360]                   |
| 1780 | [4845]                    | 42853      | 37948     | 244       | 85890                     |
| 1781 | 5157                      | 39359      | 51010     | 425       | 95951                     |
| 1782 | 3932                      | 38217      | 46229     | 312       | 88690                     |
| 1783 | 4080                      | 42030      | [45104]   | 223       | [91437]                   |
| 1784 | 3461                      | 39651      | 43979     | 710       | 87801                     |
| 1785 | 3551                      | 38976      | 41941     | 162       | 84630                     |
| 1786 | 2693                      | 31379      | 44516     | 218       | 78806                     |
| 1787 | 3118                      | 31173      | 46211     | 290       | 80792                     |
| 1788 | 4203                      | 37336      | 39174     | 6410      | 87123                     |
| 1789 | 3456                      | 39320      | 37844     | 216       | 80836                     |
| 1790 | 3435                      | 23890      | 33848     | 556       | 61729                     |
| 1791 | 3526                      | 31965      | 39628     | 148       | 75267                     |
| 1792 | 3048                      | 31102      | [43226]   | 205       | [77581]                   |
| 1793 | 2912                      | 30321      | 46824     | 285       | 80342                     |
| 1794 | 2192                      | 30769      | [55602]   | 187       | [88750]                   |
| 1795 | 4610                      | 33736      | [64380]   | 376       | [103102]                  |
| 1796 | 5381                      | 30096      | 73159     | 3893      | 112529                    |
| 1797 | 6924                      | 36434      | [76497]   | 356       | [120211]                  |
| 1798 | 5393                      | 35669      | 79835     | 1159      | 122056                    |
| 1799 | 4121                      | 31177      | 77617     | 1239      | 114154                    |
| 1800 | 3355                      | 34983      | 78180     | 275       | 116793                    |

<sup>1)</sup> This includes lambs, rams, sheep, bucks, goats and kids. The source terms the category now "lambs", now "sheep and lambs", now "sheep, lambs and rams" etc. On those occasions where the figures allow of being distinguished, lambs are very much in the majority.

Appendix 2.52

Registered gross imports from Iceland, Greenland, the Faroes and Finmark, free of consumption tax.

Sheep and mutton.

| Year | mutton,<br>barrels | sheep |
|------|--------------------|-------|
| 1730 | [1398]             | [19]  |
| 1731 | 1654               | 37    |
| 1732 | 3033               | 22    |
| 1733 | 4067               | 2     |
| 1734 | 4040               | 0     |
| 1735 | 3459               | 0     |
| 1736 | 5152               | 0     |
| 1737 | 3980               | 0     |
| 1738 | 3523               | 0     |
| 1739 | [4103]             | [0]   |
| 1740 | 4682               | 0     |
| 1741 | 3869               | 0     |
| 1742 | 4893               | 0     |
| 1743 | 6460               | 0     |
| 1744 | 6277               | 61    |
| 1745 | 4931               | 57    |
| 1746 | 6738               | 109   |
| 1747 | 5285               | 116   |
| 1748 | 4565               | 94    |
| 1749 | 5866               | 115   |
| 1750 | 5236               | 163   |

## Appendix 2.61

Copenhagen consumption tax ledgers.

Registered gross imports liable to consumption tax.

Geese.

| Year | The custom house (harbour) | Christianshavns Gate | North Gate | West Gate | East Gate | Total imports |
|------|----------------------------|----------------------|------------|-----------|-----------|---------------|
| 1730 | [173]                      | 1613                 | 3239       | 22419     | 672       | 28116         |
| 1731 | 211                        | 1297                 | 1797       | 18914     | 1040      | 23259         |
| 1732 | 251                        | 1385                 | 2630       | 21346     | 875       | 26487         |
| 1733 | 293                        | 1356                 | 2435       | 30161     | 599       | 34844         |
| 1734 | 166                        | 1427                 | 5554       | 29461     | 765       | 37373         |
| 1735 | 261                        | 1638                 | 1928       | 40659     | 422       | 44908         |
| 1736 | 34                         | 1713                 | 1654       | 31048     | 326       | 34775         |
| 1737 | 74                         | 1247                 | 2985       | [34680]   | 189       | [39175]       |
| 1738 | 137                        | 1583                 | 2819       | 38311     | 468       | 43318         |
| 1739 | 80                         | 1721                 | 1510       | [32055]   | 836       | [36202]       |
| 1740 | 46                         | 1223                 | 1977       | 25798     | 241       | 29285         |
| 1741 | 130                        | 1453                 | 3000       | 13770     | 234       | 18587         |
| 1742 | 95                         | 1206                 | 2879       | 30653     | 275       | 35108         |
| 1743 | 130                        | 1408                 | 2437       | [33062]   | 409       | [37446]       |
| 1744 | 104                        | 1537                 | 2392       | 35470     | 429       | 39932         |
| 1745 | 152                        | 1179                 | 2989       | 36785     | 341       | 41446         |
| 1746 | 226                        | 1211                 | 2203       | 31475     | 385       | 35500         |
| 1747 | 234                        | 1094                 | 2260       | 31436     | 370       | 35394         |
| 1748 | 199                        | 1426                 | 3285       | 40759     | 431       | 46100         |
| 1749 | 174                        | 927                  | 2788       | 35593     | 433       | 39915         |
| 1750 | 191                        | 1471                 | 3353       | 39288     | 414       | 44717         |
| 1751 | 200                        | 1576                 | 3502       | 51240     | 414       | 56932         |
| 1752 | 121                        | 1717                 | 3961       | 49004     | 541       | 55344         |
| 1753 | 189                        | 1440                 | 4068       | 53375     | 571       | 59643         |
| 1754 | 187                        | 1434                 | 5167       | 47745     | 1068      | 55601         |
| 1755 | 197                        | 1516                 | 2162       | 49718     | 387       | 53980         |
| 1756 | 179                        | 1091                 | 3334       | 52278     | 670       | 57552         |
| 1757 | 173                        | 1197                 | 3510       | 43011     | 588       | 48479         |
| 1758 | 192                        | 950                  | 2137       | 47456     | 268       | 51003         |
| 1759 | 160                        | 922                  | 2495       | 58997     | 366       | 62940         |
| 1760 | 193                        | 1005                 | 2631       | 69872     | 499       | 74200         |
| 1761 | 201                        | 1128                 | 4502       | 75938     | 586       | 82355         |
| 1762 | 203                        | 880                  | 5307       | [56153]   | 364       | [62907]       |
| 1763 | 211                        | 1160                 | 5212       | 36367     | 360       | 43310         |
| 1764 | 224                        | 1150                 | 5264       | 36370     | 947       | 43955         |
| 1765 | 223                        | 1006                 | 3735       | 36472     | 1615      | 43051         |
| 1766 | 304                        | 1082                 | 5160       | 31475     | 926       | 38947         |
| 1767 | 211                        | 960                  | 6665       | 31886     | 680       | 40402         |
| 1768 | 79                         | 898                  | 6055       | 28968     | 1343      | 37343         |
| 1769 | 93                         | 704                  | 6574       | 26216     | 1188      | 34775         |

## Appendix 2.61 (contd.)

Copenhagen consumption tax ledgers.

Registered gross imports liable to consumption tax.

Geese.

| Year | Christians-<br>havns Gate | North Gate | West Gate | East Gate | Total imports<br>overland |
|------|---------------------------|------------|-----------|-----------|---------------------------|
| 1770 | 720                       | 5825       | 29893     | 875       | 37313                     |
| 1771 | 590                       | 3758       | 36370     | 832       | 41550                     |
| 1772 | 574                       | 4436       | 24992     | 520       | 30522                     |
| 1773 | 610                       | 4057       | 36471     | 695       | 41833                     |
| 1774 | 464                       | 5645       | 31475     | 1158      | 38742                     |
| 1775 | 594                       | 6873       | 30020     | 940       | 38427                     |
| 1776 | 518                       | 5763       | 29870     | 799       | 36950                     |
| 1777 | [538]                     | [7707]     | [40338]   | [694]     | [49277]                   |
| 1778 | 558                       | 9651       | 50806     | 588       | 61603                     |
| 1779 | [667]                     | [8850]     | [51705]   | [717]     | [61939]                   |
| 1780 | [776]                     | 8048       | 52603     | 845       | 62272                     |
| 1781 | 885                       | 7438       | 53538     | 554       | 62415                     |
| 1782 | 552                       | 8837       | 49008     | 800       | 59197                     |
| 1783 | 815                       | 9861       | [49376]   | 508       | [60560]                   |
| 1784 | 652                       | 6910       | 49743     | 356       | 57661                     |
| 1785 | 847                       | 8212       | 43399     | 566       | 53024                     |
| 1786 | 953                       | 6093       | 47330     | 1473      | 55849                     |
| 1787 | 1115                      | 3784       | 77333     | 1089      | 83321                     |
| 1788 | 957                       | 2958       | 70960     | 1431      | 76306                     |
| 1789 | 898                       | 3106       | 60840     | 1168      | 66012                     |
| 1790 | 1409                      | 2793       | 52914     | 880       | 57996                     |
| 1791 | 1564                      | 3522       | 81601     | 1266      | 87953                     |
| 1792 | 1060                      | 3315       | [79977]   | 1055      | [85407]                   |
| 1793 | 1122                      | 3734       | 78353     | 1164      | 84373                     |
| 1794 | 1406                      | 3377       | [72440]   | 737       | [77960]                   |
| 1795 | 892                       | 2714       | [66527]   | 671       | [70804]                   |
| 1796 | 822                       | 3009       | 60614     | 1162      | 65607                     |
| 1797 | 822                       | 6375       | [63786]   | 1223      | [72206]                   |
| 1798 | 536                       | 15490      | 66958     | 1431      | 84415                     |
| 1799 | 487                       | 10728      | 58299     | 1028      | 70542                     |
| 1800 | 408                       | 8355       | 46324     | 685       | 55772                     |

## Appendix 2.62

Copenhagen consumption tax ledgers.

Registered gross imports liable to consumption tax.

Ducks.

| Year | The custom<br>house<br>(harbour) | Christians-<br>havns Gate | North Gate | West Gate | East Gate | Total imports |
|------|----------------------------------|---------------------------|------------|-----------|-----------|---------------|
| 1730 | [486]                            | 1055                      | 2712       | 8354      | 795       | 13402         |
| 1731 | 590                              | 880                       | 2469       | 7738      | 1021      | 12698         |
| 1732 | 875                              | 1017                      | 3108       | 7144      | 653       | 12797         |
| 1733 | 744                              | 991                       | 3050       | 10657     | 660       | 16102         |
| 1734 | 471                              | 1173                      | 5187       | 8626      | 842       | 16299         |
| 1735 | 698                              | 1037                      | 3661       | 15337     | 628       | 21361         |
| 1736 | 543                              | 815                       | 3095       | 9626      | 413       | 14492         |
| 1737 | 381                              | 584                       | 2469       | [12245]   | 155       | [15834]       |
| 1738 | 608                              | 824                       | 2641       | 14864     | 411       | 19348         |
| 1739 | 1021                             | 891                       | 1344       | [11561]   | 1207      | [16024]       |
| 1740 | 421                              | 631                       | 1654       | 8257      | 243       | 11206         |
| 1741 | 383                              | 557                       | 2701       | 6031      | 244       | 9916          |
| 1742 | 846                              | 477                       | 2284       | 7002      | 253       | 10862         |
| 1743 | 743                              | 543                       | 2761       | [8693]    | 416       | [13156]       |
| 1744 | 849                              | 790                       | 3116       | 10383     | 526       | 15664         |
| 1745 | 1051                             | 752                       | 4069       | 11659     | 554       | 18085         |
| 1746 | 1257                             | 603                       | 3919       | 11016     | 842       | 17637         |
| 1747 | 1331                             | 607                       | 4221       | 11789     | 784       | 18732         |
| 1748 | 1206                             | 640                       | 4276       | 13180     | 896       | 20198         |
| 1749 | 984                              | 405                       | 3158       | 10180     | 413       | 15140         |
| 1750 | 1149                             | 515                       | 3491       | 10918     | 449       | 16522         |
| 1751 | 1203                             | 1098                      | 4590       | 12842     | 455       | 20188         |
| 1752 | 1006                             | 1042                      | 6711       | 13748     | 759       | 23266         |
| 1753 | 1197                             | 1278                      | 7202       | 16566     | 776       | 27019         |
| 1754 | 1162                             | 1174                      | 8509       | 16045     | 959       | 27849         |
| 1755 | 1179                             | 958                       | 6012       | 25162     | 888       | 34199         |
| 1756 | 1142                             | 678                       | 4972       | 25708     | 787       | 33287         |
| 1757 | 985                              | 762                       | 5078       | 22918     | 621       | 30364         |
| 1758 | 1139                             | 338                       | 2224       | 20608     | 392       | 24701         |
| 1759 | 936                              | 343                       | 3172       | 17821     | 690       | 22962         |
| 1760 | 1163                             | 482                       | 3253       | 22750     | 606       | 28254         |
| 1761 | 1205                             | 778                       | 5062       | 35642     | 1020      | 43707         |
| 1762 | 1247                             | 626                       | 5442       | [26155]   | 782       | [34252]       |
| 1763 | 1)                               | 680                       | 5550       | 16668     | 700       | 23598         |
| 1764 | 1)                               | 660                       | 8656       | 12446     | 1531      | 23293         |
| 1765 | 1)                               | 364                       | 3404       | 12459     | 2278      | 18505         |
| 1766 | 1)                               | 544                       | 7275       | 11016     | 1180      | 20015         |
| 1767 | 1)                               | 484                       | 5409       | 11461     | 922       | 18276         |
| 1768 | 1)                               | 568                       | 6258       | 10683     | 1020      | 18529         |
| 1769 | 1)                               | 416                       | 6043       | 19268     | 1121      | 26848         |



Appendix 2.62 (contd.)

Copenhagen consumption tax ledgers.

Registered gross imports liable to consumption tax.

Ducks.

| Year | Christians-<br>havns Gate | North Gate | West Gate | East Gate | Total imports<br>overland |
|------|---------------------------|------------|-----------|-----------|---------------------------|
| 1770 | 476                       | 5938       | 18229     | 1057      | 25700                     |
| 1771 | 412                       | 4619       | 11270     | 706       | 17007                     |
| 1772 | 436                       | 4500       | 9959      | 759       | 15654                     |
| 1773 | 628                       | 4796       | 12459     | 1092      | 18975                     |
| 1774 | 543                       | 5399       | 11016     | 1442      | 18400                     |
| 1775 | 628                       | 4673       | 11400     | 1012      | 17713                     |
| 1776 | 540                       | 4352       | 10200     | 1056      | 16148                     |
| 1777 | [550]                     | [6467]     | [13113]   | [1006]    | [21136]                   |
| 1778 | 560                       | 8581       | 16025     | 955       | 26121                     |
| 1779 | [669]                     | [8375]     | [8966]    | [1124]    | [19134]                   |
| 1780 | [779]                     | 8168       | 1906      | 1292      | 12145                     |
| 1781 | 889                       | 6541       | 12612     | 612       | 20654                     |
| 1782 | 648                       | 7820       | 12628     | 828       | 21924                     |
| 1783 | 920                       | 10305      | [14326]   | 728       | [26279]                   |
| 1784 | 804                       | 7456       | 16024     | 688       | 24972                     |
| 1785 | 1123                      | 8182       | 13148     | 1521      | 23974                     |
| 1786 | 745                       | 5923       | 24630     | 1993      | 33291                     |
| 1787 | 1127                      | 5560       | 22032     | 1702      | 30421                     |
| 1788 | 1100                      | 5220       | 19019     | 1906      | 27245                     |
| 1789 | 1444                      | 3882       | 18832     | 1587      | 25745                     |
| 1790 | 914                       | 4993       | 14624     | 1830      | 22361                     |
| 1791 | 1389                      | 3122       | 14448     | 1752      | 20711                     |
| 1792 | 1408                      | 2947       | [16496]   | 1632      | [22483]                   |
| 1793 | 1231                      | 3110       | 18543     | 1239      | 24123                     |
| 1794 | 1274                      | 2999       | [16512]   | 1075      | [21860 <sup>1)</sup>      |
| 1795 | 953                       | 2596       | [14482]   | 944       | [18975]                   |
| 1796 | 983                       | 1835       | 12452     | 1953      | 17223                     |
| 1797 | 981                       | 2014       | [13039]   | 1071      | [17105]                   |
| 1798 | 777                       | 2868       | 13626     | 1701      | 18972                     |
| 1799 | 571                       | 2259       | 13896     | 1500      | 18226                     |
| 1800 | 692                       | 2939       | 13850     | 1214      | 18695                     |

<sup>1)</sup> See appendix 2.631.

## Appendix 2.631

Copenhagen consumption tax ledgers.

Registered gross imports liable to consumption tax.

Hens and chickens.

| Year | The custom house (harbour) | Christianshavns Gate | North Gate | West Gate           | East Gate | Total imports |
|------|----------------------------|----------------------|------------|---------------------|-----------|---------------|
| 1730 | [2865]                     | 2593                 | 14455      | 70469               | 3629      | 94011         |
| 1731 | 3854                       | 2355                 | 18168      | 52988               | 4158      | 81523         |
| 1732 | 3813                       | 1865                 | 15750      | 41558               | 3817      | 66803         |
| 1733 | 3719                       | 1950                 | 13213      | 59697 <sup>1)</sup> | 2607      | 81186         |
| 1734 | 3530                       | 2244                 | 21932      | 39024               | 3352      | 70082         |
| 1735 | 4088                       | 1997                 | 15129      | 68121               | 2014      | 91349         |
| 1736 | 3181                       | 1890                 | 11638      | 54022               | 1429      | 72160         |
| 1737 | 2648                       | 2140                 | 11554      | [66294]             | 848       | [83484]       |
| 1738 | 2993                       | 2021                 | 13325      | 78565               | 1688      | 98592         |
| 1739 | 3451                       | 2006                 | 9055       | [68903]             | 3295      | [86710]       |
| 1740 | 2063                       | 2558                 | 9158       | 59241               | 1622      | 74642         |
| 1741 | 2307                       | 1440                 | 9097       | 44856               | 839       | 58539         |
| 1742 | 2685                       | 1305                 | 10022      | 56473               | 1479      | 71964         |
| 1743 | 3038                       | 1564                 | 11749      | [58871]             | 2633      | [77855]       |
| 1744 | 3125                       | 1690                 | 14445      | 61269               | 2707      | 83236         |
| 1745 | 3296                       | 1388                 | 13928      | 62482               | 1793      | 82887         |
| 1746 | 4212                       | 2096                 | 13935      | 54636               | 2274      | 77153         |
| 1747 | 3830                       | 1668                 | 11807      | 63112               | 1894      | 82311         |
| 1748 | 3348                       | 1625                 | 12985      | 66941               | 2007      | 86906         |
| 1749 | 2384                       | 1246                 | 12403      | 46798               | 1581      | 64412         |
| 1750 | 2976                       | 1197                 | 15321      | 54862               | 1807      | 76163         |
| 1751 | 2985                       | 1262                 | 17118      | 92028               | 1646      | 115039        |
| 1752 | 3127                       | 1107                 | 17086      | 86220               | 2073      | 109613        |
| 1753 | 3220                       | 1531                 | 16354      | 85002               | 1938      | 108045        |
| 1754 | 2953                       | 1851                 | 16943      | 90078               | 1442      | 113267        |
| 1755 | 3003                       | 1144                 | 13818      | 103733              | 1455      | 123153        |
| 1756 | 2973                       | 1867                 | 12951      | 98401               | 1122      | 117314        |
| 1757 | 3073                       | 1632                 | 12823      | 82218               | 1321      | 101067        |
| 1758 | 2979                       | 1096                 | 10134      | 38304               | 986       | 53499         |
| 1759 | 2521                       | 1026                 | 13577      | 76830               | 2029      | 95983         |
| 1760 | 2983                       | 1185                 | 13619      | 83578               | 1849      | 103214        |
| 1761 | 3364                       | 1280                 | 20868      | 95264               | 2868      | 123644        |
| 1762 | 3531                       | 1632                 | 20067      | [89675]             | 2010      | [116915]      |

Appendix 2.631 (contd.)

Copenhagen consumption tax ledgers.

Registered gross imports liable to consumption tax.

Hens.

| Year | The custom house (harbour) | Christians-havns Gate | North Gate | West Gate | East Gate | Total imports |
|------|----------------------------|-----------------------|------------|-----------|-----------|---------------|
| 1763 | 3685 <sup>2)</sup>         | 672                   | 6460       | 36034     | 1000      | 47851         |
| 1764 | 3804 <sup>2)</sup>         | 702                   | 7236       | 38401     | 755       | 50898         |
| 1765 | 3859 <sup>2)</sup>         | 748                   | 6072       | 38441     | 1027      | 50147         |
| 1766 | 3643 <sup>2)</sup>         | 596                   | 6763       | 38440     | 553       | 49995         |
| 1767 | 3638 <sup>2)</sup>         | 436                   | 6840       | 39462     | 709       | 51085         |
| 1768 | 1760 <sup>2)</sup>         | 556                   | 7448       | 33773     | 777       | 44314         |
| 1769 | 2742 <sup>2)</sup>         | 312                   | 6944       | 24479     | 604       | 35081         |

Appendix 2.631 (contd.)

Copenhagen consumption tax ledgers.

Registered gross imports liable to consumption tax.

Hens.

| Year | Christians-havns Gate | North Gate | West Gate | East Gate | Total imports overland |
|------|-----------------------|------------|-----------|-----------|------------------------|
| 1770 | 412                   | 6756       | 31271     | 434       | 38873                  |
| 1771 | 376                   | 6133       | 37422     | 601       | 44532                  |
| 1772 | 252                   | 5232       | 15866     | 655       | 22005                  |
| 1773 | 228                   | 5745       | 38441     | 709       | 45123                  |
| 1774 | 208                   | 6030       | 38440     | 1115      | 45793                  |
| 1775 | 148                   | 6865       | 28040     | 829       | 35882                  |
| 1776 | 253                   | 6077       | 26056     | 541       | 32927                  |
| 1777 | [279]                 | [6604]     | [29037]   | [541]     | [36461]                |
| 1778 | 304                   | 7130       | 32018     | 541       | 39993                  |
| 1779 | [600]                 | [7065]     | [28347]   | [577]     | [36589]                |
| 1780 | [896]                 | 7000       | 24675     | 612       | 33183                  |
| 1781 | 1192                  | 6581       | 28460     | 744       | 36977                  |
| 1782 | 1280                  | 6234       | 24624     | 590       | 32728                  |
| 1783 | 1160                  | 6629       | [29817]   | 628       | [38234]                |
| 1784 | 1240                  | 7426       | 35010     | 640       | 44316                  |
| 1785 | 1333                  | 7553       | 24632     | 1139      | 34657                  |
| 1786 | 512                   | 6819       | 24448     | 1328      | 33107                  |
| 1787 | 809                   | 5195       | 22824     | 1082      | 29910                  |
| 1788 | 812                   | 5827       | 16434     | 1538      | 24611                  |
| 1789 | 781                   | 6833       | 22830     | 1345      | 31789                  |
| 1790 | 451                   | 5523       | 20626     | 1392      | 27992                  |
| 1791 | 290                   | 4681       | 14832     | 1459      | 21262                  |
| 1792 | 379                   | 3986       | [14918]   | 1141      | [20424]                |
| 1793 | 295                   | 4007       | 15003     | 1060      | 20365                  |
| 1794 | 406                   | 3866       | [16031]   | 1285      | [21588]                |
| 1795 | 347                   | 3499       | [17059]   | 1872      | [22777]                |
| 1796 | 347                   | 3182       | 18088     | 1681      | 23298                  |
| 1797 | 347                   | 5869       | [18331]   | 1440      | [25987]                |
| 1798 | 297                   | 11431      | 18574     | 1646      | 31948                  |
| 1799 | 250                   | 10241      | 18454     | 1478      | 30423                  |
| 1800 | 297                   | 7798       | 18472     | 1089      | 27656                  |

<sup>1)</sup> Hens, chickens and doves.

<sup>2)</sup> Hens and ducks.

Appendix 2.632

Copenhagen consumption tax ledgers.

Registered gross imports liable to consumption tax.

Chickens.

| Year | The custom<br>house<br>(harbour) | Christians-<br>havns Gate | North Gate | West Gate | East Gate | Total imports |
|------|----------------------------------|---------------------------|------------|-----------|-----------|---------------|
| 1763 | 1004                             | 708                       | 11525      | 48051     | 800       | 62088         |
| 1764 | 944                              | 1060                      | 19923      | 48000     | 1906      | 71833         |
| 1765 | 733                              | 736                       | 8227       | 48100     | 3143      | 60939         |
| 1766 | 710                              | 712                       | 18089      | 48102     | 1117      | 68730         |
| 1767 | 618                              | 628                       | 13610      | 47973     | 1414      | 64243         |
| 1768 | 858                              | 444                       | 14694      | 41668     | 1416      | 59080         |
| 1769 | 446                              | 444                       | 14596      | 21772     | 1735      | 38993         |

## Appendix 2.632 (contd.)

Copenhagen consumption tax ledgers.

Registered gross imports liable to consumption tax.

Chickens.

| Year | Christians-<br>havns Gate | North Gate | West Gate | East Gate | Total imports<br>overland |
|------|---------------------------|------------|-----------|-----------|---------------------------|
| 1770 | 376                       | 11154      | 32757     | 100       | 44387                     |
| 1771 | 344                       | 7274       | 33242     | 867       | 41727                     |
| 1772 | 264                       | 10538      | 23532     | 1057      | 35391                     |
| 1773 | 328                       | 17429      | 48100     | 1504      | 67361                     |
| 1774 | 364                       | 17888      | 50102     | 1905      | 70259                     |
| 1775 | 337                       | 15100      | 28000     | 1360      | 44797                     |
| 1776 | 340                       | 11954      | [34697]   | 1244      | [48235]                   |
| 1777 | [364]                     | [16142]    | [41393]   | [1481]    | [59380]                   |
| 1778 | 388                       | 20330      | 48090     | 1718      | 70526                     |
| 1779 | [396]                     | [21254]    | [38950]   | [1501]    | [62101]                   |
| 1780 | [405]                     | 22178      | 29810     | 1283      | 53676                     |
| 1781 | 414                       | 16476      | 26412     | 924       | 44226                     |
| 1782 | 364                       | 15254      | 28770     | 420       | 44808                     |
| 1783 | 340                       | 23391      | [63760]   | 560       | [88051]                   |
| 1784 | 260                       | 15444      | 98750     | 694       | 115148                    |
| 1785 | 324                       | 21577      | 78824     | 2104      | 102829                    |
| 1786 | 488                       | 15990      | 85842     | 3086      | 105406                    |
| 1787 | 485                       | 19759      | 74266     | 3057      | 97567                     |
| 1788 | 650                       | 23903      | 68530     | 3829      | 96912                     |
| 1789 | 742                       | 24635      | 60832     | 2023      | 88232                     |
| 1790 | 587                       | 18235      | 43522     | 2359      | 64703                     |
| 1791 | 812                       | 17858      | 44210     | 2282      | 65162                     |
| 1792 | 851                       | 16146      | [46673]   | 2105      | [65775]                   |
| 1793 | 696                       | 16267      | 49135     | 2100      | 68198                     |
| 1794 | 809                       | 16050      | [49226]   | 1956      | [68041]                   |
| 1795 | 619                       | 13310      | [49317]   | 3259      | [66505]                   |
| 1796 | 696                       | 11888      | 49408     | 4825      | 66817                     |
| 1797 | 696                       | 9998       | [50333]   | 2819      | [63846]                   |
| 1798 | 722                       | 13669      | 51258     | 3732      | 69381                     |
| 1799 | 665                       | 9579       | 51674     | 1726      | 63644                     |
| 1800 | 642                       | 11997      | 51468     | 1347      | 65454                     |

## Appendix 2.64

Copenhagen consumption tax ledgers.

Registered gross imports liable to consumption tax.

Eggs, scores.

| Year | The custom<br>house<br>(harbour) | Christians-<br>havns Gate | North Gate | West Gate | East Gate | Total imports<br>exclusive <i>td.</i> |
|------|----------------------------------|---------------------------|------------|-----------|-----------|---------------------------------------|
| 1730 | [112 <i>td.</i> 19202]           | 9503                      | 7007       | 33539     | 875       | [70126]                               |
| 1731 | 194 <i>td.</i> 23123             | 8237                      | 9926       | 33493     | 1464      | 76243                                 |
| 1732 | 39513                            | 6732                      | 8966       | 31164     | 1015      | 87390                                 |
| 1733 | 29900                            | 7683                      | 7381       | 32531     | 1246      | 78741                                 |
| 1734 | 24715                            | 6635                      | 11589      | 29165     | 1079      | 73183                                 |
| 1735 | 19870                            | 7377                      | 7735       | 34124     | 564       | 69670                                 |
| 1736 | 24335                            | 6747                      | 6516       | 32111     | 387       | 70096                                 |
| 1737 | 24798                            | 6794                      | 7688       | [32962]   | 469       | [72711]                               |
| 1738 | 26634                            | 7148                      | 7706       | 33813     | 585       | 75886                                 |
| 1739 | 8 <i>td.</i> 30224               | 6846                      | 7344       | [30776]   | 1295      | [76485]                               |
| 1740 | 29180                            | 5812                      | 8245       | 27738     | 792       | 71767                                 |
| 1741 | 31924                            | 5120                      | 8204       | 37595     | 717       | 83560                                 |
| 1742 | 24056                            | 5028                      | 7669       | 28596     | 681       | 66030                                 |
| 1743 | 30377                            | 4857                      | 9802       | [35144]   | 976       | [81156]                               |
| 1744 | 36437                            | 5232                      | 10475      | 41691     | 1304      | 95139                                 |
| 1745 | 49538                            | 5331                      | 10977      | 43332     | 932       | 110110                                |
| 1746 | 58688                            | 5190                      | 10730      | 38176     | 723       | 113507                                |
| 1747 | 49411                            | 4520                      | 10948      | 35871     | 1259      | 102009                                |
| 1748 | 38603                            | 4650                      | 13441      | 30690     | 1032      | 88416                                 |
| 1749 | 35924                            | 5441                      | 13455      | 35186     | 917       | 90923                                 |
| 1750 | 44521                            | 5075                      | 13845      | 31782     | 1209      | 96432                                 |
| 1751 | 48602                            | 6278                      | 17190      | 47416     | 1176      | 120662                                |
| 1752 | 52885                            | 5393                      | 17266      | 49131     | 1279      | 125954                                |
| 1753 | 45081                            | 5182                      | 17139      | 46501     | 1051      | 114954                                |
| 1754 | 57291                            | 5920                      | 19090      | 51930     | 1165      | 135396                                |
| 1755 | 61731                            | 5231                      | 15229      | 63268     | 847       | 146306                                |
| 1756 | 58281                            | 5082                      | 14505      | 55165     | 771       | 133804                                |
| 1757 | 52630                            | 4096                      | 13709      | 50783     | 1106      | 122324                                |
| 1758 | 64478                            | 3340                      | 15107      | 47760     | 1126      | 131811                                |
| 1759 | 77024                            | 2890                      | 14552      | 32535     | 1051      | 128052                                |
| 1760 | 49285                            | 3587                      | 18153      | 46802     | 903       | 118730                                |
| 1761 | 38599                            | 3946                      | 19152      | 65070     | 1753      | 128520                                |
| 1762 | 39486                            | 4040                      | 24386      | [52797]   | 1551      | [122260]                              |
| 1763 | 64399                            | 3570                      | 19903      | 40524     | 1460      | 129856                                |
| 1764 | 59486                            | 3648                      | 24465      | 40548     | 1613      | 129760                                |
| 1765 | 78898                            | 3414                      | 20595      | 40700     | 1736      | 145343                                |
| 1766 | 90413                            | 3116                      | 29117      | 38176     | 1228      | 162050                                |
| 1767 | 81818                            | 2856                      | 29482      | 37986     | 1313      | 153455                                |
| 1768 | 82196                            | 1954                      | 28396      | 22891     | 1479      | 136916                                |
| 1769 | 76970                            | 1408                      | 25852      | 16544     | 1237      | 122011                                |

Appendix 2.64 (contd.)

Copenhagen consumption tax ledgers.

Registered gross imports liable to consumption tax.

Eggs, scores.

| Year | Christians-<br>havns Gate | North Gate | West Gate | East Gate | Total imports<br>overland |
|------|---------------------------|------------|-----------|-----------|---------------------------|
| 1770 | 954                       | 24993      | 42893     | 1348      | 70188                     |
| 1771 | 866                       | 23657      | 25274     | 1223      | 51020                     |
| 1772 | 516                       | 21446      | 52535     | 1246      | 75743                     |
| 1773 | 472                       | 25370      | 40700     | 1659      | 68201                     |
| 1774 | 478                       | 23415      | 38176     | 1743      | 63812                     |
| 1775 | 698                       | 24644      | 30001     | 1678      | 57021                     |
| 1776 | 306                       | 21178      | 27350     | 1077      | 49911                     |
| 1777 | [296]                     | [24863]    | [38676]   | [1301]    | [65136]                   |
| 1778 | 286                       | 28548      | 50001     | 1525      | 80360                     |
| 1779 | [337]                     | [29186]    | [48152]   | [1324]    | [78999]                   |
| 1780 | [388]                     | 29824      | 46303     | 1123      | 77638                     |
| 1781 | 440                       | 25890      | 178837    | 1260      | 206427                    |
| 1782 | 321                       | 24520      | 62300     | 974       | 88115                     |
| 1783 | 402                       | 28781      | [61353]   | 553       | [91089]                   |
| 1784 | 340                       | 33112      | 60405     | 637       | 94494                     |
| 1785 | 1305                      | 29690      | 70806     | 1479      | 103280                    |
| 1786 | 1488                      | 28926      | 86701     | 3773      | 120888                    |
| 1787 | 1309                      | 31370      | 71024     | 3216      | 106919                    |
| 1788 | 1553                      | 49757      | 77308     | 2901      | 131519                    |
| 1789 | 1399                      | 61372      | 80216     | 2989      | 145976                    |
| 1790 | 1488                      | 29619      | 60496     | 4690      | 96293                     |
| 1791 | 1291                      | 27905      | 70372     | 4068      | 103636                    |
| 1792 | 1184                      | 28328      | [71456]   | 2856      | [103824]                  |
| 1793 | 1115                      | 31499      | 72539     | 4155      | 109308                    |
| 1794 | 1160                      | 29861      | [73668]   | 3840      | [108529]                  |
| 1795 | 994                       | 22898      | [74797]   | 4706      | [103395]                  |
| 1796 | 1111                      | 23945      | 75927     | 6008      | 106991                    |
| 1797 | 1111                      | 29972      | [78683]   | 4147      | [113913]                  |
| 1798 | 1236                      | 37646      | 81359     | 4780      | 125021                    |
| 1799 | 1025                      | 22337      | 80986     | 3439      | 107787                    |
| 1800 | 1118                      | 28957      | 81019     | 2878      | 113972                    |

## Appendix 2.711

Copenhagen consumption tax ledgers.

Registered gross imports liable to consumption tax.

Dried fish and split cod<sup>1)</sup>, *lispund*.

| Year | Total imports | Year | Total imports |
|------|---------------|------|---------------|
| 1730 | [8474]        | 1750 | 28250         |
| 1731 | 1972          | 1751 | 32563         |
| 1732 | 8202          | 1752 | 28468         |
| 1733 | 17192         | 1753 | 25254         |
| 1734 | 22682         | 1754 | 18678         |
| 1735 | 12128         | 1755 | 22723         |
| 1736 | 10357         | 1756 | 21702         |
| 1737 | 14963         | 1757 | 20019         |
| 1738 | 17236         | 1758 | 26350         |
| 1739 | 19889         | 1759 | 24847         |
| 1740 | 19251         | 1760 | 25996         |
| 1741 | 37633         | 1761 | 19647         |
| 1742 | 32057         | 1762 | 20220         |
| 1743 | 20750         | 1763 | 13204         |
| 1744 | 20926         | 1764 | 14128         |
| 1745 | 15615         | 1765 | 27951         |
| 1746 | 21084         | 1766 | 13061         |
| 1747 | 15433         | 1767 | 11751         |
| 1748 | 19420         | 1768 | 2599          |
| 1749 | 24659         | 1769 | 7353          |

<sup>1)</sup> The figures have been produced by adding together the various groups in the source. About 10 % of the figures for 1730–62 derive from cod in scores being converted to *pund*. The conversion factor employed is 140 cod = 1 *skippund*, cf. Carl Pontoppidan: *Det Finmarkske Magazins Samlinger*, Copenhagen 1790, p. 221.

The imports overland 1770–1800 are negligible.

## Appendix 2.712

Registered gross imports from Iceland, Greenland, the Faroes and Finmark, free of consumption tax.

Dried fish and split cod, *lispund*.

| Year | Total imports           | Year | Total imports |
|------|-------------------------|------|---------------|
| 1730 | [71691]                 | 1741 | 99844         |
| 1731 | 76817                   | 1742 | 127236        |
| 1732 | 75080                   | 1743 | 114098        |
| 1733 | 97382                   | 1744 | 161811        |
| 1734 | 111462                  | 1745 | 128973        |
| 1735 | 85349                   | 1746 | 119499        |
| 1736 | 45511 + 19622 <i>td</i> | 1747 | 88094         |
| 1737 | 74437                   | 1748 | 87266         |
| 1738 | 86052                   | 1749 | 83088         |
| 1739 | [95011]                 | 1750 | 110376        |
| 1740 | 103969                  |      |               |



Appendix 2.721

Copenhagen consumption tax ledgers.

Registered gross imports liable to consumption tax.

Salt fish, barrels.

| Year | Total imports | Year | Total imports |
|------|---------------|------|---------------|
| 1730 | [1295]        | 1750 | 2234          |
| 1731 | 930           | 1751 | 1794          |
| 1732 | 2016          | 1752 | 1506          |
| 1733 | 2023          | 1753 | 1654          |
| 1734 | 2331          | 1754 | 1266          |
| 1735 | 2503          | 1755 | 1393          |
| 1736 | 1808          | 1756 | 1181          |
| 1737 | 1705          | 1757 | 1198          |
| 1738 | 1294          | 1758 | 2176          |
| 1739 | 1777          | 1759 | 2385          |
| 1740 | 1540          | 1760 | 1387          |
| 1741 | 2933          | 1761 | 1078          |
| 1742 | 2499          | 1762 | 1208          |
| 1743 | 2333          | 1763 | 1169          |
| 1744 | 2079          | 1764 | 1107          |
| 1745 | 1731          | 1765 | 1365          |
| 1746 | 1910          | 1766 | 1009          |
| 1747 | 1163          | 1767 | 1132          |
| 1748 | 1302          | 1768 | 477           |
| 1749 | 1853          | 1769 | 283           |

1) The figures have been produced by adding together the various groups in the source. 1 load (*læst*) has been converted to 12 barrels (*tønder*).

The imports overland 1770–1800 are negligible.

Appendix 2.722

Registered gross imports from Iceland, Greenland, the Faroes and Finmark, free of consumption tax.

Salt fish, barrels.

| Year | Total imports | Year | Total imports |
|------|---------------|------|---------------|
| 1730 | [395]         | 1741 | 1019          |
| 1731 | 387           | 1742 | 1103          |
| 1732 | 482           | 1743 | 1103          |
| 1733 | 664           | 1744 | 1270          |
| 1734 | 675           | 1745 | 1079          |
| 1735 | 564           | 1746 | 675           |
| 1736 | 701           | 1747 | 958           |
| 1737 | 713           | 1748 | 864           |
| 1738 | 921           | 1749 | 1009          |
| 1739 | [945]         | 1750 | 1362          |
| 1740 | 968           |      |               |

### Appendix 2.73

Copenhagen consumption tax ledgers.

Registered gross imports liable to consumption tax.

Salt, dried and smoked herring, barrels.

| Year | Total imports | Year | Total imports |
|------|---------------|------|---------------|
| 1730 | [7494]        | 1750 | 16230         |
| 1731 | 8203          | 1751 | 16343         |
| 1732 | 8733          | 1752 | 18882         |
| 1733 | 10290         | 1753 | 12108         |
| 1734 | 8840          | 1754 | 20210         |
| 1735 | 6156          | 1755 | 19079         |
| 1736 | 8436          | 1756 | 20286         |
| 1737 | 7442          | 1757 | 19007         |
| 1738 | 9641          | 1758 | 19952         |
| 1739 | 10716         | 1759 | 13833         |
| 1740 | 9619          | 1760 | 18366         |
| 1741 | 10189         | 1761 | 12315         |
| 1742 | 9268          | 1762 | 12588         |
| 1743 | 6212          | 1763 | 12683         |
| 1744 | 6016          | 1764 | 13325         |
| 1745 | 6727          | 1765 | 15533         |
| 1746 | 8284          | 1766 | 11598         |
| 1747 | 11504         | 1767 | 12167         |
| 1748 | 12376         | 1768 | 13652         |
| 1749 | 18072         | 1769 | 18198         |

1) Wherever the figures can be broken down salt herring is the chief category.

The overland imports 1770–1800 are less than 100 barrels a year.

## Appendix 2.74

## Copenhagen consumption tax ledgers.

Registered gross imports liable to consumption tax.

Fresh herring<sup>1</sup>).

| Year | The custom<br>house<br>(harbour)<br>Boats | Christians-<br>havns Gate<br>Barrels | North Gate<br>Barrels | West Gate<br>Barrels | East Gate<br>Barrels | Total imports<br>overland<br>Barrels <sup>1</sup> ) |
|------|---|--------------------------------------|-----------------------|----------------------|----------------------|---|
| 1730 | [20]                                      | 2                                    | 150                   | 65                   | 12                   | 229   |
| 1731 | 31  | 0                                    | 62                    | 38                   | 10                   | 110   |
| 1732 | 50  | 3                                    | 108                   | 122                  | 54                   | 287   |
| 1733 | 44  | 0                                    | 90                    | 152                  | 13                   | 255   |
| 1734 | 31  | 0                                    | 125                   | 59                   | 6                    | 190   |
| 1735 | 59  | 0                                    | 255                   | 143                  | 52                   | 450   |
| 1736 | 61  | 22                                   | 260                   | 175                  | 51                   | 508   |
| 1737 | 94  | 23                                   | 401                   | [154]                | 37                   | [615]   |
| 1738 | 70  | 6                                    | 419                   | 132                  | 36                   | 593   |
| 1739 | 188                                       | 109                                  | 374                   | [139]                | 408                  | [1030]  |
| 1740 | 741                                       | 1007                                 | 1590                  | 145                  | 240                  | 2982  |
| 1741 | 712                                       | 1733                                 | 1069                  | 137                  | 230                  | 3169  |
| 1742 | 284                                       | 1822                                 | 582                   | 275                  | 119                  | 2798  |
| 1743 | 44  | 254                                  | 374                   | [284]                | 82                   | [994]   |
| 1744 | 68  | 195                                  | 387                   | 292                  | 44                   | 918   |
| 1745 | 27  | 93                                   | 264                   | 159                  | 26                   | 542   |
| 1746 | 39  | 32                                   | 194                   | 201                  | 20                   | 447   |
| 1747 | 27  | 2                                    | 283                   | 252                  | 33                   | 570   |
| 1748 | 11  | 0                                    | 251                   | 198                  | 17                   | 466   |
| 1749 | 9   | 2                                    | 271                   | 339                  | 13                   | 625   |
| 1750 | 9   | 0                                    | 195                   | 202                  | 11                   | 408   |
| 1751 | 17  | 0                                    | 262                   | 345                  | 20                   | 627   |
| 1752 | 9   | 3                                    | 350                   | 405                  | 148                  | 906   |
| 1753 | 23  | 0                                    | 311                   | 247                  | 182                  | 740   |
| 1754 | 39  | 6                                    | 243                   | 344                  | 120                  | 713   |
| 1755 | 29  | 1                                    | 218                   | 157                  | 163                  | 539   |
| 1756 | 58  | 2                                    | 310                   | 145                  | 124                  | 581   |
| 1757 | 61  | 0                                    | 305                   | 221                  | 42                   | 568   |
| 1758 | 46  | 1                                    | 335                   | [191]                | 53                   | [580]   |
| 1759 | 63  | 16                                   | 254                   | 160                  | 113                  | 543   |
| 1760 | 41  | 32                                   | 204                   | 388                  | 81                   | 705   |
| 1761 | 134                                       | 0                                    | 158                   | 319                  | 197                  | 674   |
| 1762 | 171                                       | 0                                    | 225                   | [332]                | 92                   | [649]   |
| 1763 | 216                                       | 5                                    | 117                   | 345                  | 81                   | 548   |
| 1764 | 255                                       | 0                                    | 558                   | 336                  | 159                  | 1053  |
| 1765 | 189                                       | 0                                    | 567                   | 337                  | 155                  | 1059  |
| 1766 | 205                                       | 0                                    | 519                   | 336                  | 126                  | 981   |
| 1767 | 105                                       | 0                                    | 388                   | 339                  | 106                  | 833   |
| 1768 | 40 td. + 133                              | 0                                    | 482                   | 429                  | 174                  | 1085  |
| 1769 | 119                                       | 0                                    | 573                   | 319                  | 211                  | 1103  |

Appendix 2.74 (contd.)

Copenhagen consumption tax ledgers.

Registered gross imports liable to consumption tax.

Fresh herring, barrels.

| Year | Christians-<br>havns Gate | North Gate | West Gate | East Gate | Total imports<br>overland |
|------|---------------------------|------------|-----------|-----------|---------------------------|
| 1770 | 0                         | 474        | 848       | 222       | 1544                      |
| 1771 | 0                         | 403        | 336       | 189       | 928                       |
| 1772 | 0                         | 893        | 254       | 435       | 1582                      |
| 1773 | 48                        | 827        | 337       | 825       | 2037                      |
| 1774 | 25                        | 871        | 302       | 851       | 2049                      |
| 1775 | 4                         | 1202       | 372       | 1147      | 2725                      |
| 1776 | 0                         | 916        | 430       | 566       | 1912                      |
| 1777 | [0]                       | [711]      | [362]     | [544]     | [1617]                    |
| 1778 | 0                         | 505        | 293       | 522       | 1320                      |
| 1779 | [0]                       | [420]      | [374]     | [424]     | [1218]                    |
| 1780 | [0]                       | 334        | 454       | 325       | 1113                      |
| 1781 | 0                         | 314        | 274       | 0         | 588                       |
| 1782 | 0                         | 269        | 248       | 252       | 769                       |
| 1783 | 0                         | 520        | [329]     | 316       | [1165]                    |
| 1784 | 0                         | 262        | 410       | 178       | 850                       |
| 1785 | 0                         | 337        | 412       | 47        | 796                       |
| 1786 | 4                         | 519        | 424       | 608       | 1555                      |
| 1787 | 2                         | 518        | 316       | 251       | 1087                      |
| 1788 | 1                         | 339        | 214       | 113       | 667                       |
| 1789 | 0                         | 409        | 184       | 111       | 704                       |
| 1790 | 0                         | 306        | 176       | 118       | 600                       |
| 1791 | 0                         | 198        | 185       | 673       | 1056                      |
| 1792 | 0                         | 210        | [170]     | 1182      | [1562]                    |
| 1793 | 0                         | 234        | 155       | 1521      | 1910                      |
| 1794 | 0                         | 222        | [155]     | 1310      | 1687                      |
| 1795 | 0                         | 300        | [156]     | 1644      | 2100                      |
| 1796 | 0                         | 452        | 156       | 1666      | 2274                      |

- 1) Duty on seaward imports was not charged by the barrel but by the boat, regardless of size. Since imports of other fresh saltwater fish were free of duty, it must have been easy to smuggle fresh herring in by sea.

Appendix 2.81

Free milling of rye for the army in Copenhagen, barrels.

| Year | Free milling according to the milling consumption tax office ledgers <sup>1)</sup> | Free milling according to the surviving statistics <sup>2)</sup> | Free milling orders issued <sup>3)</sup> |
|------|--|--|--|
|      | column 1   | column 2   | column 3                                 |
| 1730 | .....  | .....  | 13000                                    |
| 1731 | .....  | .....  | 10000                                    |
| 1732 | .....  | .....  | 14000                                    |
| 1733 | .....  | .....  | 12000                                    |
| 1734 | .....  | .....  | 18000                                    |
| 1735 | .....  | .....  | 12000                                    |
| 1736 | .....  | .....  | 18000                                    |
| 1737 | .....  | .....  | 16000                                    |
| 1738 | .....  | .....  | 12000                                    |
| 1739 | .....  | .....  | 18000                                    |
| 1740 | .....  | .....  | 16000                                    |
| 1741 | .....  | .....  | 18000                                    |
| 1742 | .....  | .....  | 16000                                    |
| 1743 | 25200  | .....  | 26000                                    |
| 1744 | .....  | .....  | 26500                                    |
| 1745 | 16000  | .....  | 16000                                    |
| 1746 | 17600  | .....  | 14000                                    |
| 1747 | 17424  | .....  | 12000                                    |
| 1748 | 16800  | .....  | 20000                                    |
| 1749 | 15200  | .....  | 9000                                     |
| 1750 | 16600  | .....  | 16000                                    |
| 1751 | 15200  | .....  | 14000                                    |
| 1752 | 16800  | .....  | 16000                                    |
| 1753 | 16200  | .....  | 12000                                    |
| 1754 | 13204  | .....  | 6000?                                    |
| 1755 | 17400  | .....  | 18000                                    |
| 1756 | 14600  | .....  | 15000                                    |
| 1757 | 20000  | .....  | 14000                                    |
| 1758 | 15800  | .....  | 17000                                    |
| 1759 | 10800  | .....  | 13000                                    |
| 1760 | 11800  | .....  | 10000                                    |
| 1761 | 15200  | .....  | 10000                                    |
| 1762 | 16533  | .....  | 12000                                    |
| 1763 | 11600  | .....  | 8000                                     |
| 1764 | 6600   | .....  | 6000                                     |
| 1765 | 13000  | .....  | 12000                                    |
| 1766 | 10800  | .....  | 10000                                    |
| 1767 | 14746  | .....  | 12000                                    |
| 1768 | 10000  | .....  | 10000                                    |
| 1769 | 8240   | .....  | 8000                                     |
| 1770 | 8753   | 8400   | 10000                                    |
| 1771 | 13800  | 13600  | .....                                    |
| 1772 | .....  | 15000  | .....                                    |
| 1773 | .....  | 16000  | .....                                    |
| 1774 | .....  | 11500  | .....                                    |

| Year               | Free milling according to the milling consumption tax office ledgers <sup>1)</sup> | Free milling according to the surviving statistics <sup>2)</sup> | Free milling orders issued <sup>3)</sup> |
|--------------------|--|--|--|
|                    | column 1   | column 2   | column 3                                 |
| 1775               | .....  | 10760  | .....                                    |
| 1776               | .....  | 6000   | .....                                    |
| 1777               | .....  | 5800   | .....                                    |
| 1778               | .....  | 9200   | .....                                    |
| 1779               | .....  | 4000   | .....                                    |
| 1780               | .....  | 4800   | .....                                    |
| 1781               | .....  | 7200   | .....                                    |
| 1782               | .....  | 4800   | .....                                    |
| 1783               | .....  | 5200   | .....                                    |
| 1784               | 7000   | 7000   | .....                                    |
| 1785               | .....  | 11000  | .....                                    |
| 1786               | 12000  | .....  | .....                                    |
| 1787               | 13000  | .....  | .....                                    |
| 1788               | 13000  | .....  | .....                                    |
| 1789               | 12000  | .....  | .....                                    |
| 1790               | 13000  | .....  | .....                                    |
| 1791               | 14000  | .....  | .....                                    |
| 1792               | 8000   | .....  | 8000                                     |
| 1793               | 8000   | .....  | 8000                                     |
| 1794               | .....  | .....  | 10000                                    |
| 1795               | .....  | .....  | 10000                                    |
| 1796               | .....  | .....  | 12000                                    |
| 1797               | .....  | .....  | 10000                                    |
| 1798               | .....  | .....  | 6000                                     |
| 1799 <sup>4)</sup> | .....  | .....  | .....                                    |
| 1800 <sup>4)</sup> | .....  | .....  | .....                                    |

In computing the calorific and protein values of consumption in Copenhagen, column 3 is used for the years 1730–45, column 1 for 1746–71, column 2 for 1772–85, column 1 for 1786–93 and column 3 for 1794–98.

<sup>1)</sup> Source: RA GenToldkamm, Reviderede regnskaber, København, Antegnelser ekstrakter m. v. 1730–1800.

In the milling consumption tax office free-milling abstracts, these figures are not recorded as representing free milling for the army in Copenhagen but as free milling for a number of named individuals who according to the free-milling orders issued for the army (cf. note 3) appear to have been the army's "bread contractors". However, it is also apparent from some of the free-milling orders that for part of the time the same individuals were responsible for the baking of bread for victualling naval vessels. Therefore it is possible that for some years the figures of free-milling for the army according to the milling consumption tax office ledgers shown in column 1 also include a certain amount of free milling for the navy. However, it is clear from the free-milling orders (source as note 3) that no more than about 4,000 barrels of rye a year were involved in the victualling of naval vessels. The figures of free millings for the army culled from the milling consumption tax office ledgers are not homogeneous. In some years the figures comprise the quantities actually milled during the calendar year, while in others they embrace the quantities

for which free-milling orders were received during the calendar year. This is important for the figures because free-milling orders were normally for 2,000 barrels of rye, and if one of these orders was issued in December, for instance, then a computation of free milling arrived at by counting up the quantities for which free-milling orders were issued would result in all 2,000 barrels being assigned to the year of issue, while a computation based on quantities milled would share the 2,000 barrels between the year of issue of the order and the following year, according to how many of the 2,000 barrels had been milled before the turn of the year.

2) *Source*: RA GenToldkamm, Reviderede regnskaber, København 1785B. This list seems to have been compiled from the free-milling orders issued.

3) *Source*: RA Rtk 2241.80-89 + RA GenToldkamm VA II, p. 268, 1760-71 Frie ordres protokol + RA Rtk 2335.3-4 + RA GenToldkomm VA II p. 271, Københavns Told- og Konsumptions samt Øresunds- og Strømtoldkontor, Journaler.

This column comprises free-milling orders according to the records maintained by the issuing authority. The total for each year contains the free-milling orders recorded in the registers. The list will therefore be incomplete if the registers are incomplete.

4) From 1799 onwards, the milling of rye for the army is included in the quantities on which duty is paid (i. e. the figures in appendix 2.1111). This is shown by RA GenToldkamm, Reviderede regnskaber, København, Antegnelser, ekstrakter m. v. 1799-1800, esp. Maleværksregnskaberne.

#### Appendix 2.82

Victuals supplied free of consumption tax to naval seamen and artificers in Copenhagen, estimated figures, barrels.

| Year | Free-milled rye | Free-milled barley groats | Free-milled malt | Peas imported duty-free |
|------|-----------------|---------------------------|------------------|-------------------------|
| 1730 | 14910           | 1305                      | 14910            | 745                     |
| 1731 | 14770           | 1290                      | 14770            | 740                     |
| 1732 | 15350           | 1340                      | 15350            | 770                     |
| 1733 | 14290           | 1250                      | 14290            | 715                     |
| 1734 | 15100           | 1320                      | 15100            | 755                     |
| 1735 | 14820           | 1300                      | 14820            | 745                     |
| 1736 | 16990           | 1485                      | 16990            | 850                     |
| 1737 | 17770           | 1555                      | 17770            | 890                     |
| 1738 | 18310           | 1600                      | 18310            | 915                     |
| 1739 | 20850           | 1825                      | 20850            | 1045                    |
| 1740 | 17140           | 1500                      | 0                | 855                     |
| 1741 | 15890           | 1390                      | 0                | 795                     |
| 1742 | 17200           | 1505                      | 0                | 860                     |
| 1743 | 15280           | 1340                      | 0                | 765                     |
| 1744 | 17420           | 1525                      | 0                | 870                     |
| 1745 | 17010           | 1490                      | 0                | 850                     |
| 1746 | 15440           | 1350                      | 0                | 770                     |
| 1747 | 16930           | 1480                      | 0                | 850                     |
| 1748 | 16070           | 1410                      | 0                | 805                     |
| 1749 | 16710           | 1460                      | 0                | 835                     |
| 1750 | 16720           | 1465                      | 0                | 835                     |
| 1751 | 15520           | 1360                      | 0                | 780                     |
| 1752 | 14610           | 1280                      | 0                | 730                     |
| 1753 | 15170           | 1330                      | 0                | 760                     |
| 1754 | 16560           | 1450                      | 0                | 830                     |

| Year | Free-milled<br>rye | Free-milled<br>barley groats | Free-milled<br>malt | Peas imported<br>duty-free |
|------|--------------------|------------------------------|---------------------|----------------------------|
| 1755 | 15480              | 1355                         | 0                   | 775                        |
| 1756 | 17520              | 1525                         | 0                   | 870                        |
| 1757 | 19440              | 1650                         | 0                   | 950                        |
| 1758 | 21170              | 1675                         | 0                   | 955                        |
| 1759 | 20690              | 1630                         | 0                   | 930                        |
| 1760 | 21440              | 1700                         | 0                   | 970                        |
| 1761 | 20320              | 1600                         | 0                   | 915                        |
| 1762 | 20310              | 1600                         | 0                   | 915                        |
| 1763 | 22160              | 1760                         | 0                   | 1005                       |
| 1764 | 22080              | 1750                         | 0                   | 1000                       |
| 1765 | 22210              | 1765                         | 0                   | 1010                       |
| 1766 | 22770              | 1815                         | 0                   | 1035                       |
| 1767 | 22870              | 1820                         | 0                   | 1040                       |
| 1768 | 23000              | 1835                         | 0                   | 1050                       |
| 1769 | 20380              | 1605                         | 0                   | 915                        |
| 1770 | 20990              | 1660                         | 0                   | 950                        |
| 1771 | 21700              | 1720                         | 0                   | 130                        |
| 1772 | 24740              | 1985                         | 0                   | 0                          |
| 1773 | 24940              | 2005                         | 0                   | 1145                       |
| 1774 | 22500              | 1790                         | 0                   | 1025                       |
| 1775 | 22650              | 1805                         | 0                   | 1030                       |
| 1776 | 20840              | 1645                         | 0                   | 940                        |
| 1777 | 22400              | 1775                         | 0                   | 1015                       |
| 1778 | 23090              | 1855                         | 0                   | 1060                       |
| 1779 | 21470              | 1710                         | 0                   | 975                        |
| 1780 | 20810              | 1730                         | 0                   | 990                        |
| 1781 | 20540              | 1630                         | 0                   | 930                        |
| 1782 | 20500              | 1685                         | 0                   | 960                        |
| 1783 | 21690              | 1725                         | 0                   | 985                        |
| 1784 | 21720              | 1730                         | 0                   | 990                        |
| 1785 | 22700              | 1845                         | 0                   | 1055                       |
| 1786 | 22710              | 1855                         | 0                   | 1060                       |
| 1787 | 24390              | 2055                         | 0                   | 1175                       |
| 1788 | 22440              | 1800                         | 0                   | 1030                       |
| 1789 | 21660              | 1745                         | 0                   | 995                        |
| 1790 | 23100              | 1850                         | 0                   | 1060                       |
| 1791 | 22990              | 1840                         | 0                   | 1050                       |
| 1792 | 21160              | 1685                         | 0                   | 965                        |
| 1793 | 18290              | 1450                         | 0                   | 830                        |
| 1794 | 16240              | 1280                         | 0                   | 730                        |
| 1795 | 16290              | 1280                         | 0                   | 730                        |
| 1796 | 15910              | 1245                         | 0                   | 715                        |
| 1797 | 15760              | 1220                         | 0                   | 700                        |
| 1798 | 14810              | 1160                         | 0                   | 660                        |
| 1799 | 15060              | 1180                         | 0                   | 675                        |
| 1800 | 16320              | 1280                         | 0                   | 730                        |

Naval seamen and artificers received a ration of foodstuffs consisting of rye, malt (until 1739), peas, barley groats, butter, beef and pork. Icelandic mutton was often substituted for the beef and pork. Of these commodities, rye, malt, peas and barley groats seem to have eluded the general consumption tax ledger (cf. p. 43). Rye and malt were supplied unmilled to naval personnel together with chits entitling them to get the supplied quantity milled free



of consumption tax. These quantities of rye and barley, milled tax-free for naval personnel, are not included in the general computations of annual milling found in the milling consumption tax office ledgers. It is evident from these ledgers that they deal only with the quantities on which consumption tax was paid. Nor is the free milling for naval personnel accounted for in the computation of free milling in the milling consumption tax office ledgers<sup>1</sup>). That it is nonetheless known that rye and malt were milled free of consumption tax is due to the fact that in the naval archives there is a record-book of free milling chits issued from 1722–37, and the system must have continued, for in 1809 a special computation of the free-milling for naval personnel was made in the milling consumption tax office ledgers<sup>2</sup>). It has been ascertained that, in addition to the issue to naval personnel of free-milling chits for the rye and malt distributed to them, peas for the navy were imported dutyfree<sup>3</sup>), and that the navy even had mills for grinding the barley groats supplied to its personnel<sup>4</sup>).

Even though the actual ledgers for tax-free comestibles distributed to naval personnel are not extant for the whole of the period 1730–1800, the quantities distributed can nevertheless be worked out with a fair degree of certainty, since the number of shore-rations and the size of a shore-ration are known directly or indirectly for the whole period.

#### *Basis of calculation:*

1730–39 Rye and peas: RA Sjøetaten, Kommissariatskontoret, Provianteringsbøger 1728–39. Barly groats: Calculated on the basis of the number of shore-rations according to the above and the quantity of barley groats per ration as disclosed by RA Sjøetaten, Anden divisions mønsterskriver. Indtægts- og udgiftsbøger for Gryn-møllen 1736–1770.

Malt: RA Sjøetaten, Anden divisions mønsterskriver, Konsumptionsbog 1722–37. Distribution of malt ceased on 31/12 1739 cf. RA Sjøetaten, Anden divisions mønsterskriver, Indtægts- og udgiftsbog for øl, malt etc 1735–58, and Kristof Glamann: Bryggeriets historie i Danmark, Copenhagen 1962, p. 156 ff.

1740–76 All tax-free comestibles are calculated on the basis of: RA Sjøetaten, Bogholderkontoret, Sjøetatens hovedbøger. When the supply of malt to naval personnel was abolished, malt-money was introduced instead, at the rate of 50 *skilling* per shore-ration. The number of shore-rations can therefore be worked out from the ledgers. The quantity of food per shore-ration was unchanged from 1730 to 1800, apart from the abolition of the malt ration in 1739, cf. the sources cited for 1730–39 and 1777–1800, and RA Sjøetaten, Håndværksstokkens mønsterskriver, provianteringsbog 1760–84, also RA Sjøetaten, Tredie divisions mønsterskriver (4. departement), Provianteringsbog for 4. departement 1772–1790.

In 1772–77 the amounts of malt-money in the main ledgers (*Sjøetatens hovedbøger*), are amalgamated with the amounts of ration-money for *frimændene* ("free hands", i. e. naval seamen granted permission to go to sea with the merchant fleet). The table above is compiled on the assumption that the amounts of ration-money for *frimændene* which were the same in 1772 and 1777, did not change in the intervening period. For 1777, the amounts of ration-money for *frimændene* can be worked out from the figures in the main ledgers and the number of shore-rations according to RA Sjøetaten, Holmens chef, Sjøetatens proviantgård, udgiftordrebøger 1777. For the first half of 1772, the amounts of ration-money for *frimændene* is worked out from the main ledger figures and the number of shore-rations according to RA Sjøetaten, Anden divisions mønsterskriver, Indtægts- og udgiftsbog for gryn-møllen 1771–1804.

From 1756 onwards the navy enlisted *rugdreng* ("ryeboys"), who were remunerated with a ration of rye. The number of rye-rations distributed to *rugdreng* in 1756–76 is not precisely known. In constructing the above table, use has been made of the number of rye-rations for *rugdreng* according to the navy estimates (RA Rtk 222.300–338 and RA Finansarkiverne, VA III p. 39, 1772–76 Sjøetatens reglementer). This method of calculation has been employed because it has been ascertained that for the period 1777 ff there was only a small difference between the number of rye-rations for *rugdreng* according to the

estimates and the number actually distributed. (RA Finansarkiverne, VA III, p. 39, 1777 ff. Søetatens reglementer and RA Søetaten, Holmens chef, Søetatens proviantgård, Udgiftsordrebøger 1777 ff).

1777–  
1800 Rye and peas: RA Søetaten, Holmens chef, Søetatens proviantgård, Udgiftsordrebøger 1777–1800.

Barley groats: Calculated on the basis of the number of shore-rations according to the above and the quantity of barley groats per shore-ration as disclosed by RA Søetaten, Anden division mønsterskriver, Indtægts- og udgiftsbog for gryn-møllen 1771–1804.

1) RA GenToldkamm, Reviderede regnskaber, København, Antegnelser, ekstrakter m. v. 1730–1800.

2) RA Søetaten, Anden divisions mønsterskriver, Konsumptionsbog 1722–37.

RA GenToldkamm, Reviderede regnskaber, København, Antegnelser, ekstrakter m. v. 1809.

3) cf. app. 2.81 note 3.

4) RA Søetaten, Anden divisions mønsterskriver, Indtægts- og udgiftsbog for grynmøllen 1736–1800.

## Appendix 2.91

## Estimate of calorie consumption in Copenhagen 1730–1800.

| Year | Grain products excluding ale<br>10 <sup>6</sup> kcal | Ale<br>10 <sup>6</sup> kcal | Fruits and vegetables including split peas<br>10 <sup>6</sup> kcal | Animal products<br>10 <sup>6</sup> kcal | Fish<br>10 <sup>6</sup> kcal | Total calorie intake<br>10 <sup>6</sup> kcal | Estimated population | Estimated average consumption<br>kcal per day |
|------|--|-----------------------------|--|---|------------------------------|--|----------------------|---|
| 1730 | 27482  | 13949                       | 3693   | 21426                                   | 2667                         | 69217  | 65403                | 2899  |
| 1731 | 26245  | 16327                       | 3336   | 21341                                   | 2545                         | 69794  | 65951                | 2899  |
| 1732 | 27521  | 16597                       | 3529   | 21917                                   | 2873                         | 72437  | 66442                | 2979  |
| 1733 | 27461  | 16584                       | 3270   | 23123                                   | 3340                         | 73778  | 68317                | 2959  |
| 1734 | 29508  | 16893                       | 3418   | 22564                                   | 3289                         | 75672  | 69643                | 2977  |
| 1735 | 27938  | 17014                       | 3742   | 24633                                   | 2660                         | 75987  | 71260                | 2921  |
| 1736 | 30116  | 16855                       | 4592   | 22450                                   | 2913                         | 76926  | 72731                | 2890  |
| 1737 | 29970  | 16054                       | 4361   | 25633                                   | 2912                         | 78930  | 74057                | 2920  |
| 1738 | 28515  | 16432                       | 4259   | 25910                                   | 3265                         | 78381  | 73510                | 2921  |
| 1739 | 33327  | 17174                       | 3831   | 25167                                   | 3571                         | 83070  | 73221                | 3108  |
| 1740 | 34078  | 12839                       | 3773   | 25683                                   | 3673                         | 80046  | 73912                | 2959  |
| 1741 | 36028  | 9472                        | 4608   | 23996                                   | 4351                         | 78455  | 74779                | 2874  |
| 1742 | 31377  | 9362                        | 4408   | 24436                                   | 3989                         | 73572  | 75674                | 2664  |
| 1743 | 34971  | 10776                       | 5056   | 28359                                   | 2979                         | 82141  | 75760                | 2970  |
| 1744 | 29262  | 10050                       | 4578   | 28392                                   | 2928                         | 75210  | 75876                | 2708  |
| 1745 | 32830  | 10387                       | 4758   | 28865                                   | 2811                         | 79651  | 77260                | 2825  |
| 1746 | 34996  | 9758                        | 5236   | 25043                                   | 3187                         | 78220  | 78962                | 2714  |
| 1747 | 35361  | 9793                        | 5064   | 22202                                   | 3470                         | 75890  | 78559                | 2647  |
| 1748 | 34266  | 9611                        | 4490   | 24103                                   | 3666                         | 76136  | 80665                | 2579  |
| 1749 | 34224  | 9540                        | 4381   | 22894                                   | 4705                         | 75744  | 81069                | 2560  |
| 1750 | 33583  | 10280                       | 4863   | 25461                                   | 4528                         | 78715  | 81501                | 2646  |
| 1751 | 32338  | 10112                       | 4411   | 28153                                   | 4676                         | 79660  | 83203                | 2623  |
| 1752 | 33882  | 10363                       | 4405   | 28666                                   | 4945                         | 82261  | 84502                | 2660  |
| 1753 | 33435  | 10588                       | 3931   | 31081                                   | 3872                         | 82907  | 85338                | 2662  |
| 1754 | 34158  | 10274                       | 3906   | 31248                                   | 4827                         | 84413  | 86262                | 2681  |
| 1755 | 32821  | 10389                       | 4444   | 32878                                   | 4756                         | 85288  | 85598                | 2730  |
| 1756 | 40668  | 10831                       | 4108   | 32877                                   | 4895                         | 93379  | 83001                | 3074  |
| 1757 | 42450  | 10182                       | 4682   | 35923                                   | 4671                         | 97908  | 82482                | 3252  |
| 1758 | 42814  | 8532                        | 5199   | 34622                                   | 5021                         | 96188  | 80867                | 3259  |
| 1759 | 39489  | 9008                        | 6751   | 31732                                   | 4112                         | 91092  | 78934                | 3162  |
| 1760 | 39399  | 9142                        | 4722   | 30698                                   | 4767                         | 88728  | 77116                | 3144  |
| 1761 | 41925  | 9656                        | 5742   | 30904                                   | 3717                         | 91944  | 76856                | 3278  |
| 1762 | 41921  | 9781                        | 5199   | 33435                                   | 3768                         | 94104  | 76972                | 3350  |
| 1763 | 41649  | 8871                        | 4585   | 27032                                   | 3575                         | 85712  | 79684                | 2947  |
| 1764 | 41958  | 8764                        | 5590   | 27644                                   | 3757                         | 87713  | 80492                | 2977  |
| 1765 | 44249  | 8768                        | 6048   | 30322                                   | 4473                         | 93860  | 81357                | 3161  |

## Appendix 2.91 (contd.)

Estimate of calorie consumption in Copenhagen 1730–1800.

| Year | Grain products excluding ale<br>10 <sup>6</sup> kcal | Ale<br>10 <sup>6</sup> kcal | Fruits and vegetables including split peas<br>10 <sup>6</sup> kcal | Animal products<br>10 <sup>6</sup> kcal | Fish<br>10 <sup>6</sup> kcal | Total calorie intake<br>10 <sup>6</sup> kcal | Estimated population | Estimated average consumption kcal per day |
|------|--|-----------------------------|--|---|------------------------------|--|----------------------|--|
| 1766 | 42790  | 9617                        | 5557   | 31818                                   | 3466                         | 93248  | 82800                | 3085                                       |
| 1767 | 45181  | 9868                        | 5306   | 32589                                   | 3502                         | 96446  | 84444                | 3129                                       |
| 1768 | 46966  | 9185                        | 5273   | 33123                                   | 3460                         | 98007  | 83261                | 3216                                       |
| 1769 | 42963  | 9923                        | 4474   | 33594                                   | 4231                         | 95185  | 82338                | 3167                                       |
| 1770 | 43872  | 10299                       | 5120   | 32190                                   | 3949                         | 95430  | 81819                | 3195                                       |
| 1771 | 48502  | 8994                        | 5909   | 30207                                   | 3861                         | 97473  | 81674                | 3270                                       |
| 1772 | 47484  | 8318                        | 4233   | 28720                                   | 3954                         | 92709  | 81444                | 3110                                       |
| 1773 | 47379  | 8674                        | 5427   | 29495                                   | 4019                         | 94994  | 80867                | 3218                                       |
| 1774 | 41875  | 8133                        | 5474   | 30282                                   | 4021                         | 89785  | 80520                | 3055                                       |
| 1775 | 39640  | 9676                        | 6584   | 27822                                   | 4117                         | 87839  | 81646                | 2948                                       |
| 1776 | 38604  | 9546                        | 6055   | 29602                                   | 4001                         | 87808  | 83377                | 2877                                       |
| 1777 | 39216  | 10315                       | 6163   | 31316                                   | 3959                         | 90969  | 84357                | 2954                                       |
| 1778 | 44397  | 11418                       | 6260   | 33034                                   | 3917                         | 99026  | 84617                | 3206                                       |
| 1779 | 42506  | 13116                       | 6364   | 34551                                   | 3903                         | 100440                                       | 84271                | 3265                                       |
| 1780 | 45935  | 12218                       | 4422   | 36068                                   | 3888                         | 102531                                       | 85367                | 3281                                       |
| 1781 | 45373  | 13346                       | 4355   | 34571                                   | 3813                         | 101458                                       | 86752                | 3204                                       |
| 1782 | 50599  | 12348                       | 4446   | 33481                                   | 3829                         | 104703                                       | 87416                | 3281                                       |
| 1783 | 42077  | 12886                       | 4319   | 33668                                   | 3895                         | 96845  | 88310                | 3005                                       |
| 1784 | 48818  | 10803                       | 4526   | 34764                                   | 3850                         | 102761                                       | 88425                | 3175                                       |
| 1785 | 52746  | 10639                       | 4118   | 36274                                   | 3842                         | 107619                                       | 88743                | 3322                                       |
| 1786 | 55715  | 9956                        | 4857   | 36086                                   | 3951                         | 110565                                       | 90214                | 3358                                       |
| 1787 | 51004  | 9494                        | 5796   | 35311                                   | 3884                         | 105489                                       | 92089                | 3138                                       |
| 1788 | 49182  | 10776                       | 7175   | 36724                                   | 3824                         | 107681                                       | 92637                | 3176                                       |
| 1789 | 50524  | 10383                       | 5782   | 37613                                   | 3829                         | 108131                                       | 93993                | 3152                                       |
| 1790 | 48720  | 9397                        | 5731   | 39091                                   | 3815                         | 106754                                       | 94455                | 3096                                       |
| 1791 | 47776  | 10876                       | 6552   | 37444                                   | 3879                         | 106527                                       | 95292                | 3063                                       |
| 1792 | 44424  | 10758                       | 6716   | 37978                                   | 3952                         | 103828                                       | 95263                | 2978                                       |
| 1793 | 46250  | 10423                       | 7148   | 39113                                   | 4001                         | 106935                                       | 94628                | 3096                                       |
| 1794 | 46876  | 10989                       | 7116   | 39545                                   | 3969                         | 108495                                       | 93734                | 3171                                       |
| 1795 | 46490  | 9966                        | 7287   | 39660                                   | 4028                         | 107431                                       | 93705                | 3141                                       |
| 1796 | 49794  | 10632                       | 7721   | 39641                                   | 4053                         | 111841                                       | 93243                | 3277                                       |
| 1797 | 45265  | 11905                       | 7830   | 41213                                   | 4029                         | 110242                                       | 93791                | 3220                                       |
| 1798 | 47542  | 11920                       | 7139   | 43278                                   | 4029                         | 113908                                       | 93445                | 3340                                       |
| 1799 | 49064  | 10741                       | 6142   | 42895                                   | 4029                         | 112871                                       | 95782                | 3228                                       |
| 1800 | 52923  | 9316                        | 6367   | 41417                                   | 4029                         | 114052                                       | 98465                | 3173                                       |

The figures for consumption are based in part upon the import and milling figures in Appendices 2.1–2.8, and in part upon estimates as follows: Imports by sea 1770–1800; the estimate is based upon the seaward imports before 1770, and the sources specified on p. 41 f. Imports of salt and dried fish from Iceland, Greenland, the Faroes and Finnmark 1730–1800; the estimate is based upon the imports and exports of 1750, the only year for which both the import and export figures for these commodities are known. Imports of salt mutton from Iceland 1751–1800; the estimate is based upon imports in 1731–50.

In other cases where figures for a consumption tax point are not available, the figures used for computation purposes are arrived at by linear interpolation between the preceding and succeeding known figures for the consumption tax point in question, cf. appendix 2.93.

## Appendix 2.92

## Estimate of protein consumption in Copenhagen 1730–1800.

| Year | Grain products excluding ale<br>Kg protein | Ale<br>Kg protein | Fruits and vegetables including split peas<br>Kg protein | Animal products<br>Kg protein | Fish<br>Kg protein | Total intake<br>Kg protein | Estimated population | Estimated average consumption grams per day |
|------|--|-------------------|--|-------------------------------|--------------------|----------------------------|----------------------|---|
| 1730 | 751350                                     | 104430            | 215810   | 749570                        | 492180             | 2313340                    | 65403                | 97  |
| 1731 | 738080                                     | 122240            | 198990   | 717190                        | 456020             | 2232520                    | 65951                | 93  |
| 1732 | 769990                                     | 124250            | 208030   | 760310                        | 518730             | 2381310                    | 66442                | 98  |
| 1733 | 768420                                     | 124150            | 192220   | 807900                        | 602420             | 2495110                    | 68317                | 100   |
| 1734 | 819360                                     | 126470            | 200050   | 804650                        | 614690             | 2565220                    | 69643                | 101   |
| 1735 | 776900                                     | 127370            | 221840   | 840870                        | 507410             | 2474390                    | 71260                | 95  |
| 1736 | 830970                                     | 126180            | 274210   | 832010                        | 529170             | 2592540                    | 72731                | 97  |
| 1737 | 831240                                     | 120190            | 256920   | 820740                        | 542460             | 2571550                    | 74057                | 95  |
| 1738 | 793550                                     | 123020            | 254550   | 853430                        | 590160             | 2614710                    | 73510                | 97  |
| 1739 | 926640                                     | 128580            | 225920   | 864330                        | 637770             | 2783240                    | 73221                | 104   |
| 1740 | 941350                                     | 96120             | 226500   | 891400                        | 645170             | 2801340                    | 73912                | 104   |
| 1741 | 993030                                     | 70910             | 290020   | 822500                        | 790350             | 2966810                    | 74779                | 109   |
| 1742 | 872800                                     | 70090             | 263630   | 821930                        | 728270             | 2756720                    | 75674                | 100   |
| 1743 | 972230                                     | 79380             | 301730   | 923400                        | 571170             | 2847910                    | 75760                | 103   |
| 1744 | 824540                                     | 75240             | 268460   | 994640                        | 565120             | 2728000                    | 75876                | 98  |
| 1745 | 913580                                     | 77760             | 280400   | 995760                        | 533420             | 2800920                    | 77260                | 99  |
| 1746 | 972450                                     | 73060             | 312940   | 802480                        | 595190             | 2756120                    | 78962                | 96  |
| 1747 | 979630                                     | 73320             | 292870   | 714330                        | 608790             | 2668940                    | 78559                | 93  |
| 1748 | 955340                                     | 71950             | 260560   | 764180                        | 648950             | 2700980                    | 80665                | 91  |
| 1749 | 956560                                     | 71420             | 259890   | 769370                        | 787920             | 2845160                    | 81069                | 96  |
| 1750 | 938530                                     | 76960             | 295930   | 803310                        | 779470             | 2894200                    | 81501                | 97  |
| 1751 | 906330                                     | 75700             | 247220   | 898740                        | 808390             | 2936380                    | 83203                | 97  |
| 1752 | 949470                                     | 77580             | 252900   | 926800                        | 827520             | 3034270                    | 84502                | 98  |
| 1753 | 935110                                     | 79270             | 211660   | 1034680                       | 689740             | 2950460                    | 85338                | 95  |
| 1754 | 952250                                     | 76920             | 224580   | 1047860                       | 781890             | 3083500                    | 86262                | 98  |
| 1755 | 1067930                                    | 77780             | 254020   | 1108570                       | 786730             | 3295030                    | 85598                | 105   |
| 1756 | 1135930                                    | 81090             | 242450   | 1086570                       | 799450             | 3345490                    | 83001                | 110   |
| 1757 | 1175830                                    | 76230             | 286800   | 1145180                       | 766750             | 3450790                    | 82482                | 115   |
| 1758 | 1182660                                    | 63870             | 304810   | 1101990                       | 833320             | 3486650                    | 80867                | 118   |
| 1759 | 1096530                                    | 67440             | 410950   | 1026260                       | 720500             | 3321680                    | 78934                | 115   |
| 1760 | 1295500                                    | 68440             | 270740   | 1042650                       | 798260             | 3475590                    | 77116                | 123   |
| 1761 | 1170460                                    | 72290             | 351280   | 1025990                       | 650570             | 3270590                    | 76856                | 117   |
| 1762 | 1168720                                    | 73230             | 315540   | 1024580                       | 659790             | 3241860                    | 76972                | 115   |
| 1763 | 1158540                                    | 66410             | 274140   | 911100                        | 614370             | 3024560                    | 79684                | 104   |
| 1764 | 1170290                                    | 65610             | 339280   | 926400                        | 640290             | 3141870                    | 80492                | 107   |
| 1765 | 1218870                                    | 65640             | 371180   | 1020950                       | 768160             | 3444800                    | 81357                | 116   |

## Appendix 2.92 (contd.)

## Estimate of protein consumption in Copenhagen 1730-1800.

| Year | Grain products excluding ale<br>Kg protein | Ale<br>Kg protein | Fruits and vegetables including split peas<br>Kg protein | Animal products<br>Kg protein | Fish<br>Kg protein | Total intake<br>Kg protein | Estimated population | Estimated average consumption<br>grams per day |
|------|--|-------------------|--|-------------------------------|--------------------|----------------------------|----------------------|--|
| 1766 | 1185100                                    | 72000             | 337180   | 1053620                       | 600730             | 3248630                    | 82800                | 107  |
| 1767 | 1252720                                    | 73870             | 320850   | 1116500                       | 600760             | 3364700                    | 84444                | 109  |
| 1768 | 1302810                                    | 68770             | 318230   | 1088920                       | 565390             | 3344120                    | 83261                | 110  |
| 1769 | 1196940                                    | 74290             | 269090   | 1114760                       | 671950             | 3327030                    | 82338                | 111  |
| 1770 | 1228450                                    | 77100             | 314120   | 1124520                       | 648840             | 3393030                    | 81819                | 114  |
| 1771 | 1348960                                    | 67330             | 358360   | 979550                        | 638310             | 3392510                    | 81674                | 114  |
| 1772 | 1312550                                    | 62270             | 256790   | 916590                        | 649490             | 3197690                    | 81444                | 107  |
| 1773 | 1230600                                    | 64940             | 329310   | 953600                        | 657270             | 3235720                    | 80867                | 110  |
| 1774 | 1164310                                    | 60880             | 329480   | 971240                        | 657480             | 3183390                    | 80520                | 108  |
| 1775 | 1102260                                    | 72440             | 390030   | 916100                        | 669040             | 3149870                    | 81646                | 106  |
| 1776 | 1163310                                    | 71460             | 367370   | 963260                        | 655140             | 3220540                    | 83377                | 106  |
| 1777 | 1103970                                    | 77220             | 372190   | 1023030                       | 650090             | 3226500                    | 84357                | 105  |
| 1778 | 1246770                                    | 85480             | 376230   | 1082700                       | 645010             | 3436190                    | 84617                | 111  |
| 1779 | 1200220                                    | 98190             | 383830   | 1121130                       | 643270             | 3446640                    | 84271                | 112  |
| 1780 | 1307180                                    | 91470             | 393790   | 1159530                       | 663250             | 3615220                    | 85367                | 116  |
| 1781 | 1288540                                    | 99920             | 262100   | 1180450                       | 632490             | 3463500                    | 86752                | 109  |
| 1782 | 1449690                                    | 92440             | 261670   | 1142950                       | 635590             | 3582340                    | 87416                | 112  |
| 1783 | 1204650                                    | 96470             | 252230   | 1149640                       | 642360             | 3345350                    | 88310                | 104  |
| 1784 | 1387220                                    | 80880             | 255000   | 1182380                       | 636980             | 3542460                    | 88425                | 109  |
| 1785 | 1490950                                    | 79650             | 240100   | 1222680                       | 636050             | 3669430                    | 88743                | 113  |
| 1786 | 1566790                                    | 74530             | 277110   | 1236140                       | 649030             | 3803600                    | 90214                | 116  |
| 1787 | 1444890                                    | 71080             | 341750   | 1188960                       | 641030             | 3687710                    | 92089                | 110  |
| 1788 | 1403780                                    | 80680             | 413010   | 1233840                       | 633850             | 3765160                    | 92637                | 111  |
| 1789 | 1419010                                    | 77730             | 330370   | 1265770                       | 634480             | 3727360                    | 93993                | 109  |
| 1790 | 1360410                                    | 70350             | 327520   | 1229110                       | 632700             | 3620090                    | 94455                | 105  |
| 1791 | 1341090                                    | 81420             | 374340   | 1226390                       | 640500             | 3663740                    | 95292                | 105  |
| 1792 | 1253620                                    | 80540             | 374420   | 1250830                       | 649150             | 3608560                    | 95263                | 103  |
| 1793 | 1302200                                    | 78030             | 388040   | 1301290                       | 655100             | 3724660                    | 94628                | 108  |
| 1794 | 1313810                                    | 82270             | 396020   | 1329270                       | 651290             | 3772660                    | 93734                | 110  |
| 1795 | 1297970                                    | 74610             | 415710   | 1329500                       | 658350             | 3776140                    | 93705                | 110  |
| 1796 | 1387340                                    | 79600             | 446240   | 1322310                       | 661330             | 3896820                    | 93243                | 114  |
| 1797 | 1288380                                    | 89120             | 453060   | 1372210                       | 660440             | 3863210                    | 93791                | 113  |
| 1798 | 1362550                                    | 89240             | 404900   | 1448680                       | 660440             | 3965810                    | 93445                | 116  |
| 1799 | 1401280                                    | 80410             | 342970   | 1438610                       | 660440             | 3923710                    | 95782                | 112  |
| 1800 | 1491580                                    | 69940             | 379860   | 1439950                       | 660440             | 4041770                    | 98465                | 112  |

## Appendix 2.93

Summary showing the percentage of estimated and interpolated figures entering into the calculation of calorie consumption in Copenhagen 1730-1800.

| Year | Grain products excluding ale | Ale | Fruits and vegetables including split peas | Animal products | Fish | Total Calorie intake |
|------|------------------------------|-----|--|-----------------|------|----------------------|
| 1730 | 7                            | 0   | 2  | 4               | 99   | 21                   |
| 1731 | 0                            | 0   | 0  | 0               | 50   | 2                    |
| 1732 | 55                           | 84  | 0  | 0               | 44   | 42                   |
| 1733 | 56                           | 85  | 0  | 0               | 38   | 42                   |
| 1734 | 53                           | 85  | 0  | 0               | 39   | 41                   |
| 1735 | 0                            | 0   | 0  | 0               | 48   | 2                    |
| 1736 | 0                            | 0   | 0  | 0               | 44   | 2                    |
| 1737 | 4                            | 0   | 43   | 37              | 44   | 16                   |
| 1738 | 0                            | 0   | 0  | 0               | 39   | 2                    |
| 1739 | 3                            | 0   | 50   | 45              | 36   | 17                   |
| 1740 | 0                            | 0   | 0  | 0               | 35   | 2                    |
| 1741 | 0                            | 0   | 0  | 0               | 29   | 2                    |
| 1742 | 0                            | 0   | 0  | 0               | 32   | 2                    |
| 1743 | 3                            | 0   | 38   | 35              | 44   | 17                   |
| 1744 | 0                            | 0   | 0  | 0               | 43   | 2                    |
| 1745 | 0                            | 0   | 0  | 0               | 45   | 2                    |
| 1746 | 0                            | 0   | 0  | 0               | 40   | 2                    |
| 1747 | 0                            | 0   | 0  | 0               | 37   | 2                    |
| 1748 | 0                            | 0   | 0  | 0               | 35   | 2                    |
| 1749 | 0                            | 0   | 0  | 0               | 27   | 2                    |
| 1750 | 0                            | 0   | 0  | 0               | 28   | 2                    |
| 1751 | 0                            | 0   | 0  | 6               | 27   | 4                    |
| 1752 | 0                            | 0   | 0  | 6               | 26   | 4                    |
| 1753 | 0                            | 0   | 0  | 5               | 33   | 4                    |
| 1754 | 0                            | 0   | 0  | 5               | 26   | 3                    |
| 1755 | 0                            | 0   | 0  | 5               | 27   | 3                    |
| 1756 | 0                            | 0   | 0  | 5               | 26   | 3                    |
| 1757 | 0                            | 0   | 0  | 5               | 27   | 3                    |
| 1758 | 0                            | 0   | 0  | 5               | 27   | 3                    |
| 1759 | 0                            | 0   | 0  | 5               | 25   | 3                    |
| 1760 | 0                            | 0   | 0  | 5               | 27   | 3                    |
| 1761 | 0                            | 0   | 0  | 5               | 34   | 3                    |
| 1762 | 3                            | 0   | 60   | 43              | 34   | 21                   |
| 1763 | 0                            | 0   | 7  | 6               | 35   | 4                    |
| 1764 | 0                            | 0   | 5  | 7               | 34   | 4                    |
| 1765 | 0                            | 0   | 5  | 6               | 28   | 3                    |

Appendix 2.93 (contd.)

Summary showing the percentage of estimated and interpolated figures entering into the calculation of calorie consumption in Copenhagen 1730-1800.

| Year | Grain products excluding ale | Ale | Fruits and vegetables including split peas | Animal products | Fish | Total Calorie intake |
|------|------------------------------|-----|--|-----------------|------|----------------------|
| 1766 | 0                            | 0   | 5  | 5               | 37   | 3                    |
| 1767 | 0                            | 0   | 0  | 5               | 36   | 3                    |
| 1768 | 0                            | 0   | 0  | 5               | 37   | 3                    |
| 1769 | 0                            | 0   | 0  | 5               | 30   | 3                    |
| 1770 | 5                            | 0   | 24   | 49              | 94   | 24                   |
| 1771 | 5                            | 0   | 21   | 55              | 97   | 24                   |
| 1772 | 5                            | 0   | 29   | 55              | 94   | 25                   |
| 1773 | 5                            | 0   | 22   | 54              | 93   | 24                   |
| 1774 | 5                            | 0   | 22   | 52              | 93   | 26                   |
| 1775 | 6                            | 0   | 18   | 57              | 91   | 26                   |
| 1776 | 6                            | 0   | 20   | 54              | 93   | 26                   |
| 1777 | 9                            | 0   | 94   | 100             | 100  | 49                   |
| 1778 | 5                            | 0   | 19   | 48              | 95   | 23                   |
| 1779 | 10                           | 0   | 94   | 100             | 100  | 48                   |
| 1780 | 5                            | 0   | 43   | 50              | 96   | 26                   |
| 1781 | 5                            | 0   | 28   | 46              | 98   | 23                   |
| 1782 | 4                            | 0   | 27   | 47              | 97   | 22                   |
| 1783 | 6                            | 0   | 65   | 72              | 97   | 35                   |
| 1784 | 5                            | 0   | 27   | 46              | 97   | 23                   |
| 1785 | 48                           | 0   | 29   | 44              | 97   | 43                   |
| 1786 | 6                            | 2   | 25   | 44              | 94   | 22                   |
| 1787 | 4                            | 0   | 21   | 45              | 96   | 22                   |
| 1788 | 5                            | 0   | 17   | 43              | 98   | 21                   |
| 1789 | 4                            | 2   | 21   | 42              | 97   | 21                   |
| 1790 | 5                            | 13  | 21   | 41              | 98   | 23                   |
| 1791 | 5                            | 0   | 18   | 42              | 96   | 22                   |
| 1792 | 7                            | 0   | 70   | 76              | 95   | 39                   |
| 1793 | 5                            | 0   | 17   | 40              | 93   | 22                   |
| 1794 | 7                            | 0   | 73   | 82              | 95   | 41                   |
| 1795 | 7                            | 0   | 77   | 82              | 93   | 42                   |
| 1796 | 4                            | 0   | 16   | 40              | 92   | 21                   |
| 1797 | 8                            | 0   | 68   | 83              | 100  | 43                   |
| 1798 | 5                            | 13  | 17   | 37              | 100  | 22                   |
| 1799 | 5                            | 0   | 20   | 37              | 100  | 21                   |
| 1800 | 5                            | 0   | 20   | 38              | 100  | 20                   |

Regarding which figures are estimated and which interpolated, cf. appendix 2.91.



## Appendix 2.94

### Margin of error in interpolations.

The margin of error on interpolated and estimated figures entering into the computations of average calorie consumption per head is put at 40 %. This is not to be construed as implying that the interpolated and estimated figures diverge by not more than 40 % from the figures recorded at the time but now lost. The validity of the 40 % margin of error is not absolute; furthermore it is different for interpolated and estimated figures respectively.

The linear interpolations are made where figures for a consumption tax-point are missing for one year but extant for the preceding and succeeding year. However, an interpolation has been made in one instance even though the figures for the consumption tax-point are missing for two years in succession and in another instance even though they are missing for three years in succession (West Gate 1794-95 and the milling consumption tax office 1732-34). There is a substantial difference between the margin of error on the linear interpolations and that on the estimates made in cases where figures are missing for a lengthy series of years (cf. Appendix 2.91). The validity of the 40 % margin of error applied to the figures derived by linear interpolation can be assessed by making similar linear interpolations for years where the figures recorded at the time have survived, then comparing the interpolated and the recorded figures. It is possible to do this wherever a consumption tax-point can show figures for a commodity in the given year and in the preceding and succeeding year, but it has in fact been done only in respect of certain of the most important commodities, viz., from the milling ledgers: Rye for flour, wheat for flour, barley for groats and malt for ale for the brewers guild; the year 1785 is omitted from the calculations, cf. p. 51. From the import ledgers, West Gate: Split peas, oxen and cows, butter and bacon. The West Gate has been singled out because it is far the most important of the gates; however, the years 1763-67 are not included in the calculations because, as has been remarked, there is so little variation from one year to another in this period between the quantities of goods recorded at the West Gate that the figures must be presumed to have been concocted. If these years are included, there will be relatively many years showing little difference between recorded and interpolated figures. Examination of the differences between recorded and interpolated figures yields the following percentage distribution (page 265). In respect of the commodities selected, interpolated figures diverge by 40 % or more in 0-23 % of cases, with an average for the eight commodities of 7 %.

Additionally it is to be noted that there seems to be a tendency for the quantities of those articles recorded in the consumption-tax ledgers that are of little account in the city's overall consumption to vary relatively more from year to year than do the important commodities studied in this appendix, and therefore for the figures derived by linear interpolation to diverge more widely from the recorded figures in the case of less important articles. This is of significance when evaluating interpolated figures for articles of little account in the city's overall consumption but unimportant when evaluating that overall consumption itself, in which the main weight attaches to a small group of commodities.

From all this it seems reasonable to conclude that in respect of important commodities and the city's overall consumption, the interpolated figures diverge from the figures recorded at the time but since lost by less than 40 % in about 90 % of instances. This applies to cases where the recorded figures are missing for only one year. The 40 % margin of error will therefore probably apply in fewer than 90 % of the instances where interpolations have been made to cover two or three years of missing figures in a row, and in a still smaller percentage of cases where the figures are estimated.

Divergence between interpolated and recorded figures.

| Divergence   | 0-9 % | 10-19 % | 20-29 % | 30-39 % | 40 + % | Total |
|--|-------|---------|---------|---------|--------|-------|
| <i>Registered grain-milling liable to consumption tax.</i>           |       |         |         |         |        |       |
| Rye for flour.   |       |         |         |         |        |       |
| % of cases   | 75    | 14      | 5       | 0       | 6      | 100   |
| Wheat for flour.   |       |         |         |         |        |       |
| % of cases   | 80    | 20      | 0       | 0       | 0      | 100   |
| Barley for groats.   |       |         |         |         |        |       |
| % of cases   | 37    | 19      | 17      | 10      | 17     | 100   |
| Malt for ale for the brewers gild.                                   |       |         |         |         |        |       |
| % of cases   | 93    | 7       | 0       | 0       | 0      | 100   |
| <i>Registered gross import liable to consumption tax, West Gate.</i> |       |         |         |         |        |       |
| Split peas.  |       |         |         |         |        |       |
| % of cases   | 31    | 36      | 17      | 5       | 11     | 100   |
| Oxen and cows.   |       |         |         |         |        |       |
| % of cases   | 82    | 16      | 2       | 0       | 0      | 100   |
| Butter.  |       |         |         |         |        |       |
| % of cases   | 44    | 21      | 6       | 6       | 23     | 100   |
| Bacon.   |       |         |         |         |        |       |
| % of cases   | 59    | 19      | 14      | 5       | 3      | 100   |
| <i>Total of above-mentioned 8 groups.</i>                            |       |         |         |         |        |       |
| % of cases   | 65    | 18      | 7       | 3       | 7      | 100   |

Appendix 2.95

The percentage margin of error in the per capita calorie consumption figures.

| Year | Percentage margin of error in the curve height <sup>1)</sup> | Percentage margin of error in the curve shape <sup>2)</sup> | Year | Percentage margin of error in the curve height <sup>1)</sup> | Percentage margin of error in the curve shape <sup>2)</sup> |
|------|--|---|------|--|---|
| 1730 | 28.7   | 8.3   | 1766 | 22.7   | 1.4   |
| 1731 | 21.2   | 0.7   | 1767 | 22.2   | 1.2   |
| 1732 | 37.2   | 16.8  | 1768 | 22.0   | 1.2   |
| 1733 | 37.1   | 16.7  | 1769 | 22.0   | 1.2   |
| 1734 | 37.1   | 16.5  | 1770 | 30.6   | 9.6   |
| 1735 | 21.2   | 0.7   | 1771 | 30.5   | 9.7   |
| 1736 | 20.9   | 0.7   | 1772 | 30.2   | 9.9   |
| 1737 | 27.3   | 6.3   | 1773 | 30.2   | 9.7   |
| 1738 | 21.0   | 0.6   | 1774 | 31.0   | 9.3   |
| 1739 | 27.7   | 6.9   | 1775 | 30.9   | 10.5  |
| 1740 | 20.9   | 0.6   | 1776 | 31.2   | 10.5  |
| 1741 | 21.2   | 0.6   | 1777 | 40.4   | 19.6  |
| 1742 | 20.9   | 0.7   | 1778 | 30.0   | 9.3   |
| 1743 | 26.8   | 6.8   | 1779 | 40.1   | 19.4  |
| 1744 | 20.7   | 0.7   | 1780 | 31.6   | 10.5  |
| 1745 | 21.2   | 0.6   | 1781 | 29.8   | 9.1   |
| 1746 | 21.3   | 0.6   | 1782 | 29.4   | 8.8   |
| 1747 | 21.7   | 0.7   | 1783 | 34.4   | 13.9  |
| 1748 | 21.7   | 0.7   | 1784 | 29.5   | 9.0   |
| 1749 | 21.4   | 0.7   | 1785 | 37.8   | 17.2  |
| 1750 | 21.2   | 0.6   | 1786 | 29.0   | 8.7   |
| 1751 | 22.1   | 1.5   | 1787 | 29.1   | 8.7   |
| 1752 | 22.0   | 1.4   | 1788 | 28.9   | 8.5   |
| 1753 | 22.5   | 1.4   | 1789 | 28.9   | 8.6   |
| 1754 | 22.0   | 1.4   | 1790 | 28.7   | 9.1   |
| 1755 | 22.1   | 1.4   | 1791 | 28.9   | 8.6   |
| 1756 | 21.7   | 1.3   | 1792 | 40.8   | 15.5  |
| 1757 | 21.4   | 1.2   | 1793 | 28.8   | 8.6   |
| 1758 | 21.7   | 1.2   | 1794 | 36.6   | 16.4  |
| 1759 | 21.8   | 1.3   | 1795 | 36.9   | 16.7  |
| 1760 | 21.7   | 1.3   | 1796 | 27.7   | 8.2   |
| 1761 | 22.4   | 1.3   | 1797 | 37.2   | 17.1  |
| 1762 | 29.5   | 8.6   | 1798 | 28.3   | 8.7   |
| 1763 | 22.4   | 1.5   | 1799 | 28.4   | 8.3   |
| 1764 | 22.4   | 1.7   | 1800 | 28.7   | 8.2   |
| 1765 | 22.0   | 1.4   |      |  |   |

1) Regarding definition and method of calculation cf. p. 54 f.

2) Regarding definition and method of calculation cf. p. 55.

## Appendix 2.96

Conversion factors used in computing the calorie and protein values of the consumption registered (appendices 2.1–2.8).

*Rye and barley.* Since the rate of consumption tax was the same for rye and for barley, the entries in the abstracts often show only an aggregate figure of rye- and barley-flour imports. However, in those cases where the figures can be separated it is evident that rye is vastly preponderant, and for this reason account has only been taken of rye in calculating the conversion factor. In the abstracts, the rye bread imported in the period 1730–68 is included in the rye- and barley-flour category (cf. appendix 2.1113). It has been possible because what is being lumped in with the number of barrels of rye-flour is not a number of barrels of rye bread. It is evident from some of the ledgers that as far as rye bread is concerned, the number of barrels refers not to the volume of the bread but to the quantity of rye estimated to have gone into its making. Further, 1 barrel of rye-flour probably denotes not the rye-flour contained in 1 barrel but the flour yielded by one barrel of rye. At any rate this is so from 1797 onwards, since the following conversion ratios then come into use:

1 barrel unsifted rye-flour = 12 *lispund* 10 *pund*.

1 barrel sifted rye-flour = 10 *lispund*.

1 barrel fine rye-flour = 8 *lispund* <sup>1)</sup>.

1 barrel of unmilled rye is defined in the same ordinance as equivalent to 13 *lispund* gross, the difference between the 13 *lispund* gross and the weights specified above being "for siftings, bran and sacking".

It is probable also that before 1797 the description 1 barrel rye-flour was employed to denote the flour yielded by 1 barrel of rye, since there was a general principle that it should cost the same in consumption tax to import milled grain products via the Gates as to have grain milled in the town. The milling-consumption tax office levied 32 *skilling* on the milling of one barrel of rye into flour, but the import of one barrel of rye-flour also costs 32 *skilling* in consumption tax<sup>2)</sup>. Since rye occupies less space when milled and sifted, this implies that if the "one barrel of rye-flour" mentioned above means rye-flour to a volume of one barrel, it would have been cheaper in consumption tax to have rye milled outside the city and to import it as flour rather than to have it milled in the city; but 10 times as many barrels of rye were ground for flour in the town as were imported by land and by sea altogether. It is therefore to be presumed that in the import-ledger abstracts one barrel of rye is to be understood as the flour from one barrel of rye. In the conversion it has been assumed throughout the period that one barrel of rye produced 12 *lispund* of unsifted rye-flour. In the revisions of the bakers scales of 1762 and 1776 it was assumed that 1 barrel of rye produced 12 *lispund* of unsifted rye-flour<sup>3)</sup>, and for consumption-tax purposes in 1797 it was assumed that one barrel of rye produced 12 *lispund* 10 *pund* of unsifted rye-flour<sup>4)</sup>.

*Wheat.* On the question whether the numbers of barrels stated in the import abstracts refer to the volume of the grain before or after milling, the same argument can be applied as in the case of rye. The conclusion is also the same. When the official baker's scale of prices was revised in 1776, a barrel of wheat was reckoned to weigh a minimum of 13 *lispund*, yielding 136 *pund* of flour<sup>5)</sup>. This gives an extraction rate of only 57 %, which it to be regarded as an extremely improbable figure. The customs and consumption tax ordinance of 1/2 1797 assumes that a barrel of unmilled wheat-grain weighed 14 *lispund* and that this would yield 11 *lispund* of sifted wheat-flour. This gives an extraction-rate of 78.5 %. Regard must be had here to the fact that the lower the yield of a barrel of wheat was set in the

1) Ordinance of 1/2 1797.

2) Ordinances of 31/12 1700, 29/2 1732, 17/5 1762, 26/11 1768, 15/11 1778 and 1/2 1797.

3) Friis and Glamann: A History of Prices and Wages in Denmark, 1660–1800, vol. I, 1958, p. 145 and p. 149.

4) Op. cit., p. 156 f.

5) Op. cit., p. 145 and p. 150.

consumption tax rates, the higher the consumption tax revenue on import would be, while the revenue from milling would be unchanged. Today the extraction rate for wheat is about 75 %, and it may be surmised that the absurdly low extraction rate of 1776 represents an attempt to conceal the fact that bakers' profits were in actual fact larger than was indicated by the official scale. In the conversion it has been assumed throughout the period that one barrel of wheat yielded 11 *lispund* of sifted flour.

*Bran* is understood as rye-bran, with 12 *lispund* per barrel.

*Barley groats*. One barrel of barley groats is defined in the customs and consumption tax ordinance of 1/2 1797 as equal to 9 *lispund* or 71.5 kg. A calculation from the specific gravity of barley groats and the capacity of a barrel gives 69.5 kg. In the calculation one barrel of barley groats is assumed to equal 70 kg.

*Groats* (*Eiergryn*, pearl barley, millets, rice and semolina). Since imports are in *lispund*, there are no conversion problems.

*Malt ground for ale*. C. F. Brøndum asserted in 1828 that a barrel of malt ought to weigh 8 *lispund* 4 *pund*. If the barrel weighed substantially less, this was an indication that the grain from which the malt was made was too weak, had too strong a germ or had been dried too quickly. If the barrel weighed substantially more, the barley had not germinated sufficiently<sup>6)</sup>. According to the customs and consumption tax ordinance of 1/2 1797, 1 barrel of barley malt weighed 9<sup>1</sup>/<sub>2</sub> *lispund*.

The weight of a barrel of malt being known, the calorie values can be calculated, but the problem is how many calories were lost during brewing. In the official Copenhagen ale prices from 1730 to 1799 the assumed brewing ratio is between 11 and 14 (except in 1771, when it is 17). The brewing ratio is understood to mean the number of barrels of ale brewed from 4 barrels of malt<sup>7)</sup>. If the quantity of malt consumed in the brewing of modern "pilsner" type beer is converted to barrel measure according to the conversion factor given by Brøndum, the brewing ratio works out at about 13.5<sup>8)</sup>, which corresponds quite well to the brewing ratios of the 18th century. However, "pilsner" beer is brewed with a higher percentage content of alcohol<sup>9)</sup>, and the loss of calories per kg of malt consumed is greater than when brewing to a lower percentage of alcohol. On the other hand modern brewing technology has improved, and in consideration of this it has been assumed in calculating the calorific value of the ale brewed from 1 barrel of malt that in the 18th century the loss of calories incurred in brewing 1 kg of malt was the same as that of today. C. F. Brøndum's figure has been used as the weight of 1 barrel. In calculating the calorific value of the ale no account has been taken of the hops (appendix 2.26).

*Raw materials for distilling*. Since distilling technology has been substantially improved<sup>10)</sup> since the 18th century, no attempt has been made to work out the calorific value of the *brændevin* produced from the raw materials mentioned in appendices 2.14. *Brændevin* consumption it therefore not included in the total calorie-intake figure for the city derived from the consumption tax ledgers.

*Dried and split peas*. According to the customs and consumption tax ordinance of 1/2 1797, 1 barrel was equal to 14 *lispund* or 111.2 kg, while a calculation from the specific gravity of split peas and the capacity of a barrel gives a figure of 112.8 kg<sup>11)</sup>, which has been used in the calculations.

<sup>6)</sup> Chr. A. Brøndum: Grundsætninger for Ølbryggeriet, 1828, p. 44 f.

<sup>7)</sup> Kristof Glamann: Bryggeriets Historie i Danmark, 1962, bilag B.

<sup>8)</sup> Calculated from figures supplied by the Carlsberg Breweries.

<sup>9)</sup> Kristof Glamann: Bryggeriets Historie i Danmark, 1962, p. 12.

<sup>10)</sup> Lars Rumar: Jordbrug og brændevinsbrænding I, Erhvervshistorisk årbog 1966, p. 15 ff.

<sup>11)</sup> 1 hectolitre of peas is equivalent to 81 kg. Landbrugets Ordbog, 4 ed., 1952, article: tønne.

*Green peas.* One barrel of green peas in the pod is assumed to weigh 60 kg. The loss on shelling is about 55 %<sup>12)</sup>. In terms of calories and protein, imports of green peas are negligible by comparison with split peas.

*Turnips, swedes and potatoes.* 1 barrel is assumed to weigh 90 kg, which lies between the figures for the various types<sup>13)</sup>.

*Kale.* A wagon-load of kale is assumed to weigh roughly 30 *lispund* or about 240 kg, cf. the weight of a load of hay according to Friis and Glamann<sup>14)</sup>.

*Cabbage and red cabbage.* A head of cabbage is assumed to weigh 1.5 kg, which would be regarded as small today. A *skok* (= three score) would thus weigh 90 kg.

*Cauliflower.* A head of cauliflower is assumed to weigh 0.7 kg. Thus a *skok* would weigh 42 kg.

*Fresh fruit.* One barrel is assumed to weigh 60 kg according to specific gravity tests.

*Hops.* Not included in the calculations.

*Oxen and cows.* Appendix 2.97 shows the weight of oxen bought by the Asiatic Company and the West Indies Company. The weights given are for the quantity of meat yielded by the slaughtering of the oxen. The figures in appendix 2.97 are depicted in fig. 30. It is evident from the latter that there is no consistent difference in weight between the oxen bought by the two companies in the same years. In some years the oxen bought by the Asiatic Company show the greater average weight, in other years those bought by the West Indies Company. The figures are therefore regarded as one series, even though they do not originate from the same source.

The next question is whether the oxen bought by the companies generally weighed more or less than other oxen imported into Copenhagen. Imports of cows and oxen attracted consumption tax of 2 *rigsdaler* a head, regardless of the size of animal. This figure remained unchanged throughout the period<sup>15)</sup>. This meant that the import of large animals was cheapest in terms of consumption tax per unit of weight. The chartered companies were exempt from consumption tax on commodities that were re-exported or used in the fitting-out of ships. Therefore the companies were able to import relatively small animals without incurring disproportionately heavy consumption tax charges. In nevertheless holding it most likely that the weight of the oxen bought by the companies was about the average for oxen imported into Copenhagen, regard is being paid to the fact that the companies' purchases were rather large, comprising 20–80 head at a time, accounting for a considerable proportion of the supplies becoming available during the short periods when vessels were being fitted out. There is a limit, therefore, to the extent to which the average weight of oxen purchased by the chartered companies could diverge from the general average weight of oxen imported into Copenhagen. The companies' purchases were generally effected in June or in September–December, and these times of year did not change during the period covered by appendix 2.97.

As is evident from appendix 2.312, some of the livestock imported into Copenhagen were not oxen but cows, which weighed less than oxen. The invoices for meat supplied to the companies always refer to a certain number of ox-carcases, i. e. slaughtered oxen. It is open to question, however, whether a certain number of cows did not find their way among the ox-carcases delivered to the companies and paid for according to weight. Cow-meat was probably not a nice word in the 18th century either.

Fig. 30 shows not only the average weights of ox-carcases bought by the companies but also the line of best fit for these computed by the method of least squares. No account is

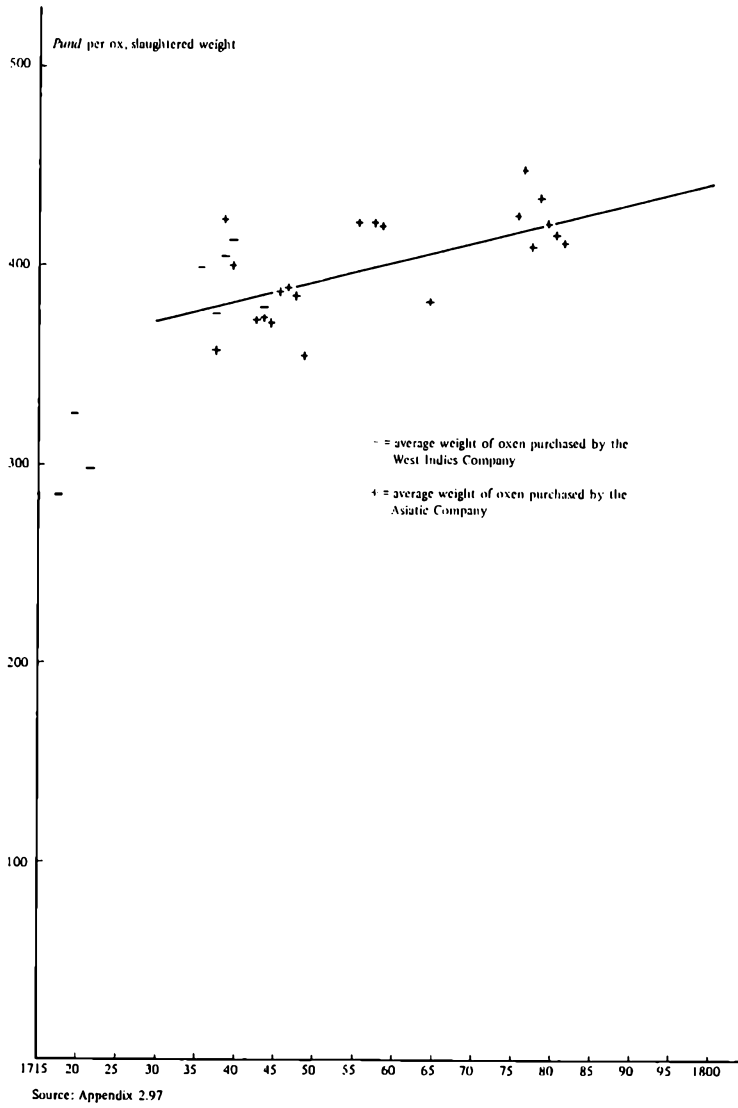
<sup>12)</sup> Rich. Ege: *Fødevarer- og ernæringstabeller*, 1963, nr. 178.

<sup>13)</sup> *Landbrugets Ordbog*, 4 ed., 1952, article: *tønnde*.

<sup>14)</sup> Friis and Glamann: *A History of Prices and Wages in Denmark 1660–1800*. vol. I, 1958, p. 124 ff.

<sup>15)</sup> Ordinances of 31/12 1700, 29/2 1732, 17/5 1762, 26/11 1768, 15/11 1778 and 1/2 1797. However, in 1757 the levy on imports by sea was increased to 3 $\frac{1}{2}$  *rigsdaler*.

Fig. 30



taken of the low weight of oxen in 1725. The average weights arrange themselves as a normal distribution around this straight line. The function for this straight line is.

$$\text{Weight of oxen in } \textit{pund} = 343.01 + 0.99048 \times x$$

where  $x$  = the two last digits of the year. This equation is used to calculate the weight of the oxen and cows imported.

*Calves.* The consumption tax ledgers divide calves into two categories:

sucking calves, or calves under 3 weeks old

fattening calves, or calves over 3 weeks but under one year.

Unfortunately no information about the weight of calves has come to light from the ledgers, and conversion from calves on the hoof to weights of veal are therefore based on an estimate. According to the edict of 27/1 1800, calves weighing over 64 *pund* were to be counted as fattening calves and those under that weight as sucking calves. In calculating imports into Copenhagen and the other market towns in 1839, *Tabelkommissionen* (the Statistical Commission) employed a conversion factor of one (sucking) calf to 30 *pund*<sup>16)</sup>.

Having regard to the above and to the computed weight of oxen,

1 sucking calf is deemed to weigh 25 *pund*

1 fattening calf is deemed to weigh 64 *pund*

*Fresh and smoked beef.* The unit of import is the *lispund*.

*Salt beef.* 1 barrel is equivalent to 16 *lispund* gross and 14 *lispund* net<sup>17)</sup>.

*Milk.* cf. page 45 ff.

*Butter.* 1 barrel = 14 *lispund* net<sup>18)</sup>

*Cheese.* The unit of import is the *lispund*.

*Hogs, bacon flitches and pigs*<sup>19)</sup>.

The average weight of bacon flitches bought by the West Indies Company in 1721-44 was 35 *pund* (cf. appendix 2.98). When the line of best fit is worked out by the method of least squares, the weight of 1 bacon flitch in *pund* becomes  $34.73 - 0.006477 \times x$ , where  $x$  = the last two digits of the year. This is to all intents and purposes a constant. The Asiatic Company's purchases of pork in 1777 give an average bacon flitch weight of 28.38 *pund*, while *Tabelkommissionen's* conversion factor in 1839 was 1 bacon flitch = 48 *pund*<sup>20)</sup>. With all this in mind 1 bacon flitch in 1730-1800 has been assumed to weigh 35 *pund*. *Tabelkommissionen* also applied the following equivalents:

$$1 \text{ hog} = 144 \text{ } \textit{pund}$$

$$1 \text{ pig} = 12 \text{ } \textit{pund}$$
<sup>20)</sup>

No ledger records have been discovered of hog weights, but if the weights in *Tabelkommissionen's* calculations are reduced in proportion to the ratio between the weight of a bacon flitch as purchased by the Asiatic Company and the *Tabelkommission* figure for a bacon flitch, the following weights are produced for 1730-1800.

$$1 \text{ hog} = 100 \text{ } \textit{pund}$$

$$1 \text{ pig} = 9 \text{ } \textit{pund}$$

<sup>16)</sup> Reported in Marcus Rubin: *Undersøgelse over konsumen i Kjøbenhavn, 1882*, p. 22.

The results of the calculations are reproduced in *Statistisk Tabelværk, ældste række*, hefte 4, 7, 8, 9, 12, 14, 15, 16, 18, 19 og 20.

<sup>17)</sup> Friis and Glamann: *A History of Prices and Wages in Denmark 1660-1800*, vol. I, 1958, p. 138.

<sup>18)</sup> Cf. Ordinances of 29/2 1732, 17/5 1762 and 26/11 1768.

<sup>19)</sup> In the present study "hog" denotes a fully matured swine, while "pig" denotes a young swine.

<sup>20)</sup> Reported in Marcus Rubin: *Op. cit.*, 1882, p. 22.



These figures are used as the conversion factor. A hog weight of 100 *pund* is reasonable in relation to information to be found in the literature around the year 1800 <sup>21)</sup>).

*Lamb.* A lamb is assumed to weigh 22.67 *pund* in accordance with the weight recorded in a Copenhagen probate case <sup>22)</sup>).

*Mutton.* 1 barrel = 14 *pund* net as for salt beef.

*Geese.* The weight is deemed to be that of wild geese today. One goose = 3 kg <sup>23)</sup>).

*Duck.* A duck is assumed to weigh 1.1 kg <sup>24)</sup>).

*Hens and chickens.* One hen or chicken is assumed to weigh 1.5 kg <sup>25)</sup>).

*Eggs.* An egg is assumed to weigh 50 grams.

*Dried fish and split cod.* The unit of import is the *lispund*.

*Salt fish.* A barrel is assumed to weigh 110 kg.

*Salt herring.* A barrel is assumed to weigh 95 kg <sup>26)</sup>).

*Fresh herring.* A barrel is assumed to weigh 95 kg.

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- <sup>21)</sup> A. Falkenskjøld: Afhandling om Svineavl i Danmark, 1804, p. 4.  
Gr. Begtrup: Beskrivelse over Agerdyrkningens Tilstand i Sjælland og Møen II, 1803, p. 442.  
E. Viborg: Veiledning til Svinets Behandling som Husdyr, 1804, p. 27 f.
- <sup>22)</sup> P. Københavnske skifter, lammekød, 1766 maj.
- <sup>23)</sup> G. Ahlefeldt-Bille: Jeg er jæger, 2 ed., 1961, p. 255.
- <sup>24)</sup> Op. cit. p. 260.
- <sup>25)</sup> Cf. Hønsegården 1858, p. 63.
- <sup>26)</sup> Calculated from data of specific gravity supplied by Folmer Hansen, Foreningen af Hørkræmrossister.

Appendix 2.97

Weight of slaughtered oxen purchased by the chartered companies.

| Year                          | Number of ox-carcases | Average weight in <i>pund</i> | Year                     | Number of ox-carcases | Average weight in <i>pund</i> |
|-------------------------------|-----------------------|-------------------------------|--------------------------|-----------------------|-------------------------------|
| West Indies Company 1)        |                       |                               | Asiatic Company (contd.) |                       |                               |
| 1717                          | 24                    | 284.52                        | 1746                     | 161                   | 389.42                        |
| 1719                          | 40                    | 324.90                        | 1747                     | 100                   | 385.13                        |
| 1721                          | 20                    | 298.20                        | 1748                     | 30                    | 354.90                        |
| 1735                          | 58                    | 399.10                        | 1755                     | 32                    | 422.50                        |
| 1737                          | 14                    | 375.86                        | 1757                     | 65                    | 422.45                        |
| 1738                          | 28                    | 405.43                        | 1758                     | 50                    | 400.20                        |
| 1739                          | 66                    | 413.39                        | 1759                     | 68                    | 369.97                        |
| 1743                          | 28                    | 379.71                        | 1764                     | 88                    | 382.32                        |
| Asiatic Company <sup>2)</sup> |                       |                               | 1775                     | 86                    | 426.47                        |
| 1737                          | 23                    | 357.74                        | 1776                     | 102                   | 449.65                        |
| 1738                          | 54                    | 424.25                        | 1777                     | 93                    | 410.69                        |
| 1739                          | 170                   | 400.71                        | 1778                     | 85                    | 434.94                        |
| 1742                          | 182                   | 373.02                        | 1779                     | 81                    | 422.91                        |
| 1743                          | 232                   | 374.76                        | 1780                     | 144                   | 416.50                        |
| 1744                          | 136 <sup>1/2</sup>    | 372.47                        | 1781                     | 99                    | 412.69                        |
| 1745                          | 227                   | 386.68                        |                          |                       |                               |

1) Source: P. Vestindisk Kompagni, *Negotie Journaler* 1671–1750.

2) Source: P. Asiatisk Kompagni, *Negotie Journaler* 1737–1800.

Note: The number of ox-carcases shown does not represent the companies' total purchases for the year in question. The figures refer only to those purchases for which the quantities are stated both in ox-carcases and in weight.

Appendix 2.98

Weight of bacon flitches purchased by the chartered companies.

| Year                   | Number of bacon flitches | Average weight in <i>pund</i> | Year                          | Number of bacon flitches | Average weight in <i>pund</i> |
|------------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|
| West Indies Company 1) |                          |                               | West Indies Company (contd.)  |                          |                               |
| 1721                   | 31                       | 26.77                         | 1738                          | 26                       | 47.38                         |
| 1728                   | 52                       | 36.54                         | 1739                          | 103                      | 39.28                         |
| 1730                   | 29                       | 33.93                         | 1740                          | 310                      | 34.52                         |
| 1732                   | 136                      | 32.91                         | 1741                          | 71                       | 28.85                         |
| 1733                   | 106                      | 33.74                         | 1744                          | 60                       | 32.00                         |
| 1734                   | 220                      | 31.98                         | Asiatic Company <sup>2)</sup> |                          |                               |
| 1735                   | 99                       | 38.81                         | 1777                          | 80                       | 28.38                         |
| 1737                   | 31                       | 31.81                         |                               |                          |                               |

1) Source: P. Vestindisk Kompagni, *Negotie Journaler* 1671–1750.

2) Source: P. Asiatisk Kompagni, *Negotie Journaler* 1737–1800.

Note: The number of bacon flitches shown does not represent the Companies' total purchases for the year in question. The figures refer only to those purchases for which the quantities are stated both in flitches and in weight.

Appendix 3.1

The average *per capita* consumption registered in the consumption tax ledgers.

|                          | 1731                | 1750                |
|--------------------------|---------------------|---------------------|
| Ryebread                 | 98 <i>pund</i>      | 116 <i>pund</i>     |
| Wheat bread              | 85 <i>pund</i>      | 80 <i>pund</i>      |
| Barley groat             | 0.093 <i>tønde</i>  | 0.086 <i>tønde</i>  |
| Malt for ale             | 1.166 <i>tønde</i>  | 0.690 <i>tønde</i>  |
| Split peas               | 0.079 <i>tønde</i>  | 0.102 <i>tønde</i>  |
| Beef                     | 48 <i>pund</i>      | 34 <i>pund</i>      |
| Veal                     | 3.7 <i>pund</i>     | 1.7 <i>pund</i>     |
| Bacon                    | 39 <i>pund</i>      | 40 <i>pund</i>      |
| Lamb                     | 18 <i>pund</i>      | 22 <i>pund</i>      |
| Mutton                   | 6 <i>pund</i>       | 14 <i>pund</i>      |
| Butter                   | 0.120 <i>tønde</i>  | 0.110 <i>tønde</i>  |
| Cheese                   | 11.2 <i>pund</i>    | 9.0 <i>pund</i>     |
| Egg                      | 1.27 <i>score</i>   | 1.12 <i>score</i>   |
| Dried fish and split cod | 11.1 <i>pund</i>    | 11.1 <i>pund</i>    |
| Salt fish, excl. herring | 0.0178 <i>tønde</i> | 0.0416 <i>tønde</i> |
| Salt herring             | 0.120 <i>tønde</i>  | 0.188 <i>tønde</i>  |

Poultry not included.

Basis of calculation: RA GenToldkamm: Reviderede regnskaber, København, Antegnelser, ekstrakter m. v. 1731 and 1750, and appendix 1.02.

## Appendix 3.2

## Price index for Copenhagen 1730–99.

| Year | Food  | Food and fuel | Year | Food  | Food and fuel |
|------|-------|---------------|------|-------|---------------|
| 1730 | 109.4 | 109.5         | 1765 | 150.0 | 150.5         |
| 1731 | 100.0 | 100.0         | 1766 | 149.2 | 148.6         |
| 1732 | 99.7  | 100.1         | 1767 | 137.9 | 137.4         |
| 1733 | 99.5  | 99.9          | 1768 | 143.0 | 142.6         |
| 1734 | 100.6 | 101.1         | 1769 | 140.1 | 139.8         |
| 1735 | 101.7 | 101.8         | 1770 | 142.6 | 142.0         |
| 1736 | 104.7 | 104.4         | 1771 | 165.5 | 164.7         |
| 1737 | 109.6 | 109.3         | 1772 | 166.0 | 164.6         |
| 1738 | 107.5 | 107.1         | 1773 | 157.5 | 156.0         |
| 1739 | 104.5 | 104.3         | 1774 | 131.7 | 131.4         |
| 1740 | 111.7 | 112.3         | 1775 | 139.2 | 139.1         |
| 1741 | 127.4 | 127.0         | 1776 | 133.0 | 133.0         |
| 1742 | 120.7 | 120.2         | 1777 | 126.9 | 127.0         |
| 1743 | 120.1 | 119.7         | 1778 | 128.0 | 129.5         |
| 1744 | 114.6 | 114.5         | 1779 | 131.2 | 131.6         |
| 1745 | 115.9 | 115.6         | 1780 | 135.4 | 135.4         |
| 1746 | 128.1 | 127.1         | 1781 | 144.2 | 145.6         |
| 1747 | 132.5 | 131.3         | 1782 | 158.7 | 157.9         |
| 1748 | 132.7 | 131.5         | 1783 | 165.2 | 166.1         |
| 1749 | 133.3 | 132.0         | 1784 | 167.2 | 167.3         |
| 1750 | 125.5 | 124.3         | 1785 | 161.5 | 162.0         |
| 1751 | 115.9 | 115.5         | 1786 | 176.8 | 176.5         |
| 1752 | 111.0 | 110.7         | 1787 | 170.8 | 169.9         |
| 1753 | 110.3 | 110.7         | 1788 | 151.4 | 152.6         |
| 1754 | 106.9 | 106.9         | 1789 | 159.6 | 161.0         |
| 1755 | 112.9 | 113.2         | 1790 | 162.1 | 163.9         |
| 1756 | 118.1 | 117.8         | 1791 | 148.1 | 149.5         |
| 1757 | 128.0 | 127.4         | 1792 | 145.6 | 147.1         |
| 1758 | 138.4 | 137.4         | 1793 | 150.7 | 151.9         |
| 1759 | 131.2 | 131.5         | 1794 | 157.7 | 158.9         |
| 1760 | 123.2 | 124.2         | 1795 | 185.6 | 187.2         |
| 1761 | 118.1 | 120.4         | 1796 | 185.5 | 186.8         |
| 1762 | 121.8 | 123.4         | 1797 | 157.5 | 161.4         |
| 1763 | 148.2 | 148.4         | 1798 | 158.0 | 162.9         |
| 1764 | 148.2 | 148.3         | 1799 | 177.0 | 181.7         |

Cf. page 62 ff.

## Appendix 4.01

Day-wage for workmen, Copenhagen municipal treasury ledgers<sup>1)</sup>.

| Year               | Number of days of: |                                  |        |                                  |                                  |        |        |
|--------------------|--------------------|----------------------------------|--------|----------------------------------|----------------------------------|--------|--------|
|                    | 14 sk.             | 16 sk.                           | 18 sk. | 20 sk.                           | 24 sk.                           | 28 sk. | 32 sk. |
| 1730 <sup>2)</sup> |                    |                                  |        |                                  |                                  |        |        |
| 1731               | —                  | 235 <sup>1</sup> / <sub>2</sub>  | 32     | 35                               | —                                | —      | —      |
| 1732               | 24                 | 1583 <sup>1</sup> / <sub>4</sub> | —      | 496                              | 16                               | —      | —      |
| 1733               | 684                | 5452 <sup>1</sup> / <sub>2</sub> | —      | 98 <sup>1</sup> / <sub>2</sub>   | —                                | —      | —      |
| 1734               | 535                | 1589                             | —      | —                                | —                                | —      | —      |
| 1735 <sup>2)</sup> |                    |                                  |        |                                  |                                  |        |        |
| 1736               | —                  | 2397 <sup>1</sup> / <sub>2</sub> | 31     | 36                               | 16                               | —      | —      |
| 1737               | —                  | 1654                             | —      | —                                | —                                | —      | —      |
| 1738               | —                  | 2069                             | —      | —                                | —                                | —      | —      |
| 1739               | —                  | 2516 <sup>1</sup> / <sub>2</sub> | —      | 165 <sup>1</sup> / <sub>2</sub>  | —                                | —      | —      |
| 1740               | —                  | 995 <sup>1</sup> / <sub>2</sub>  | —      | —                                | —                                | —      | —      |
| 1741               | —                  | 1640 <sup>1</sup> / <sub>2</sub> | —      | 144                              | —                                | —      | —      |
| 1742               | —                  | 1307                             | —      | —                                | —                                | —      | —      |
| 1743               | —                  | 1735                             | —      | —                                | —                                | —      | —      |
| 1744               | —                  | 1145                             | —      | —                                | —                                | —      | —      |
| 1745               | —                  | 1827 <sup>1</sup> / <sub>2</sub> | —      | —                                | —                                | —      | —      |
| 1746               | —                  | 2917                             | —      | —                                | —                                | —      | —      |
| 1747               | —                  | 2331                             | —      | —                                | —                                | —      | —      |
| 1748               | —                  | 2179                             | —      | —                                | —                                | —      | —      |
| 1749               | —                  | 1801                             | —      | —                                | —                                | —      | —      |
| 1750               | —                  | 8046 <sup>1</sup> / <sub>2</sub> | —      | 464                              | —                                | —      | —      |
| 1751               | —                  | 3051 <sup>1</sup> / <sub>2</sub> | —      | 556                              | 30                               | —      | —      |
| 1752               | —                  | 959                              | —      | 4 <sup>1</sup> / <sub>2</sub>    | 152                              | 230    | 52     |
| 1753               | —                  | 158                              | —      | 1519                             | 4510                             | —      | —      |
| 1754               | —                  | 90 <sup>1</sup> / <sub>2</sub>   | —      | 1011                             | 1620 <sup>1</sup> / <sub>2</sub> | —      | —      |
| 1755               | —                  | (552) <sup>3)</sup> +6           | —      | 603                              | 2094                             | 46     | 62     |
| 1756               | —                  | 12                               | —      | 653                              | 1173                             | —      | —      |
| 1757               | —                  | 165                              | —      | 1435                             | 170                              | —      | —      |
| 1758               | —                  | —                                | 36     | 435                              | 658                              | —      | —      |
| 1759               | —                  | —                                | —      | 396                              | 492                              | —      | —      |
| 1760               | —                  | 157                              | —      | 174                              | 730                              | —      | —      |
| 1761               | —                  | —                                | —      | 618                              | 358                              | —      | —      |
| 1762               | —                  | —                                | —      | 165                              | 88                               | —      | —      |
| 1763               | —                  | —                                | —      | 562                              | 840 <sup>1</sup> / <sub>2</sub>  | —      | —      |
| 1764               | —                  | —                                | —      | 574                              | 1585                             | —      | —      |
| 1765               | —                  | —                                | —      | 738 <sup>1</sup> / <sub>2</sub>  | 1102                             | —      | —      |
| 1766               | —                  | —                                | —      | 504 <sup>1</sup> / <sub>2</sub>  | 1053                             | —      | —      |
| 1767               | —                  | 60                               | —      | 392                              | 65                               | —      | —      |
| 1768               | —                  | 72 <sup>1</sup> / <sub>2</sub>   | —      | 432 <sup>1</sup> / <sub>2</sub>  | 732                              | —      | —      |
| 1769               | —                  | —                                | —      | 695                              | 1072 <sup>1</sup> / <sub>2</sub> | —      | —      |
| 1770               | —                  | —                                | —      | 708 <sup>1</sup> / <sub>2</sub>  | 1030                             | —      | —      |
| 1771               | —                  | —                                | —      | 1547 <sup>1</sup> / <sub>2</sub> | 3270                             | —      | —      |
| 1772               | —                  | —                                | —      | 1569                             | 2065 <sup>1</sup> / <sub>2</sub> | —      | —      |
| 1773               | —                  | —                                | —      | 594                              | 1828                             | —      | —      |
| 1774               | —                  | —                                | —      | 811 <sup>1</sup> / <sub>2</sub>  | 3236                             | —      | —      |
| 1775               | —                  | —                                | —      | 1027 <sup>1</sup> / <sub>2</sub> | 4844                             | —      | —      |
| 1776               | —                  | —                                | —      | 2152                             | 5508                             | —      | —      |
| 1777               | —                  | —                                | —      | 1666                             | 5116                             | —      | —      |
| 1778               | —                  | —                                | —      | 2129                             | 4856                             | —      | —      |

## Appendix 4.01 (contd.)

Day-wage for workmen, Copenhagen municipal treasury ledgers<sup>1)</sup>.

| Year | Number of days of: |               |               |                                  |                                   |                   |               |
|------|--------------------|---------------|---------------|----------------------------------|-----------------------------------|-------------------|---------------|
|      | 14 <i>sk.</i>      | 16 <i>sk.</i> | 18 <i>sk.</i> | 20 <i>sk.</i>                    | 24 <i>sk.</i>                     | 28 <i>sk.</i>     | 32 <i>sk.</i> |
| 1779 | -                  | -             | -             | 3677                             | 11972 <sup>1</sup> / <sub>4</sub> | -                 | -             |
| 1780 | -                  | -             | -             | 3300 <sup>1</sup> / <sub>2</sub> | 13912 <sup>1</sup> / <sub>4</sub> | -                 | -             |
| 1781 | -                  | -             | -             | 3749                             | 4549                              | -                 | -             |
| 1782 | -                  | -             | -             | 1600                             | 6108                              | -                 | -             |
| 1783 | -                  | -             | -             | 2611                             | 6209                              | -                 | -             |
| 1784 | -                  | -             | -             | 1090                             | 5681                              | -                 | -             |
| 1785 | -                  | -             | -             | 1167                             | 3545                              | -                 | -             |
| 1786 | -                  | -             | -             | 1289                             | 5297                              | -                 | -             |
| 1787 | -                  | -             | -             | 1157                             | 4408                              | -                 | -             |
| 1788 | -                  | -             | -             | 1080                             | 5259                              | -                 | -             |
| 1789 | -                  | -             | -             | 1036                             | 4380                              | -                 | -             |
| 1790 | -                  | -             | -             | 1916                             | 6266                              | -                 | -             |
| 1791 | -                  | -             | -             | 993                              | 5480                              | -                 | -             |
| 1792 | -                  | -             | -             | 1112                             | 3484                              | -                 | -             |
| 1793 | -                  | -             | -             | 903                              | 3761                              | -                 | -             |
| 1794 | -                  | -             | -             | 1080                             | 3384                              | -                 | -             |
| 1795 | -                  | -             | -             | 183                              | 8192                              | -                 | -             |
| 1796 | -                  | -             | -             | -                                | 2380                              | 4155              | -             |
| 1797 | -                  | -             | -             | -                                | -                                 | 5024              | -             |
| 1798 | -                  | -             | -             | -                                | -                                 | 101 <sup>4)</sup> | -             |
| 1799 | -                  | -             | -             | -                                | -                                 | 145 <sup>4)</sup> | -             |
| 1800 | -                  | -             | -             | -                                | -                                 | 128 <sup>4)</sup> | -             |

1) Source: P. Københavns k mnerregnskaber.

2) The vouchers have not survived.

3) Soldiers; general labourers were receiving at that time 24 *sk.* a day.

4) There are no data for these years of wages paid to workmen in sandpits or on road-mending.

Appendix 4.02

Day-wage for workmen, Copenhagen municipal treasury ledgers.  
Average of the wages paid out.

| Year | Average day-wage skilling <sup>1)</sup> | Real wage <sup>2)</sup> | Year | Average day-wage skilling <sup>1)</sup> | Real wage <sup>2)</sup> |
|------|---|-------------------------|------|---|-------------------------|
| 1730 |   |                         | 1765 | 22.40                                   | 89.3                    |
| 1731 | 16.67                                   | 100.0                   | 1766 | 22.70                                   | 91.7                    |
| 1732 | 16.97                                   | 101.7                   | 1767 | 22.04                                   | 96.2                    |
| 1733 | 15.84                                   | 95.1                    | 1768 | 22.13                                   | 93.1                    |
| 1734 | 15.50                                   | 92.0                    | 1769 | 22.43                                   | 96.2                    |
| 1735 |   |                         | 1770 | 22.37                                   | 94.5                    |
| 1736 | 16.13                                   | 92.7                    | 1771 | 22.72                                   | 82.7                    |
| 1737 | 16.00                                   | 87.8                    | 1772 | 22.27                                   | 81.2                    |
| 1738 | 16.00                                   | 89.6                    | 1773 | 23.02                                   | 88.5                    |
| 1739 | 16.25                                   | 93.5                    | 1774 | 23.20                                   | 105.9                   |
| 1740 | 16.00                                   | 85.5                    | 1775 | 23.30                                   | 100.5                   |
| 1741 | 16.33                                   | 77.2                    | 1776 | 22.88                                   | 103.2                   |
| 1742 | 16.00                                   | 79.8                    | 1777 | 23.02                                   | 108.8                   |
| 1743 | 16.00                                   | 79.8                    | 1778 | 22.78                                   | 105.5                   |
| 1744 | 16.00                                   | 83.8                    | 1779 | 23.06                                   | 105.1                   |
| 1745 | 16.00                                   | 83.0                    | 1780 | 23.23                                   | 102.9                   |
| 1746 | 16.00                                   | 75.5                    | 1781 | 22.19                                   | 91.4                    |
| 1747 | 16.00                                   | 73.1                    | 1782 | 23.17                                   | 88.0                    |
| 1748 | 16.00                                   | 73.0                    | 1783 | 22.82                                   | 82.4                    |
| 1749 | 16.00                                   | 72.7                    | 1784 | 23.36                                   | 83.7                    |
| 1750 | 16.22                                   | 78.3                    | 1785 | 23.01                                   | 85.2                    |
| 1751 | 16.68                                   | 86.6                    | 1786 | 23.22                                   | 78.9                    |
| 1752 | 19.46                                   | 105.5                   | 1787 | 23.17                                   | 81.8                    |
| 1753 | 22.81                                   | 123.6                   | 1788 | 23.34                                   | 91.7                    |
| 1754 | 22.25                                   | 124.8                   | 1789 | 23.23                                   | 86.6                    |
| 1755 | 23.37 <sup>3)</sup>                     | 123.8                   | 1790 | 23.06                                   | 84.4                    |
| 1756 | 22.53                                   | 114.8                   | 1791 | 23.38                                   | 93.8                    |
| 1757 | 20.01                                   | 94.3                    | 1792 | 23.03                                   | 93.9                    |
| 1758 | 22.67                                   | 99.0                    | 1793 | 23.23                                   | 91.7                    |
| 1759 | 22.22                                   | 101.4                   | 1794 | 23.03                                   | 86.9                    |
| 1760 | 22.16                                   | 107.0                   | 1795 | 23.91                                   | 76.6                    |
| 1761 | 21.47                                   | 107.0                   | 1796 | 26.54                                   | 85.2                    |
| 1762 | 21.39                                   | 104.0                   | 1797 | 28.00                                   | 104.1                   |
| 1763 | 20.40                                   | 82.5                    | 1798 | 28.00                                   | 103.1                   |
| 1764 | 23.04                                   | 93.2                    | 1799 | 28.00                                   | 92.4                    |
|      |   |                         | 1800 | 28.00                                   |                         |

1) Source: appendix 4.01.

2) Basis of calculation: average day-wage and price index of food and fuel (appendix 3.2).

3) Exclusive soldiers. Inclusive soldiers 21.82.

## Appendix 4.03

## The Royal Chartered Cotton Manufactory.

*(Det Kongelige Priviligerede Bomuldsmanufaktur)*Piece wages and advances paid out to weavers<sup>1)</sup>.

| Year | Chr. Fr.<br>Lind<br><i>rd : sk</i> | Daniel<br>Kihm<br><i>rd : sk</i> | Adam<br>Straub<br><i>rd : sk</i> | Johan G.<br>Vallet<br><i>rd : sk</i> | Heinrich<br>Bjørcklund<br><i>rd : sk</i> |
|------|------------------------------------|----------------------------------|----------------------------------|--------------------------------------|--|
| 1782 | 47 : 07                            | 57 : 42                          | 49 : 60                          | 56 : 03                              | 85 : 16                                  |
| 1783 | 101 : 94 <sup>1/2</sup>            | 105 : 34                         | 107 : 82                         | 102 : 23 <sup>1/2</sup>              | 157 : 10 <sup>1/2</sup>                  |
| 1784 | 147 : 88                           | 143 : 49                         | 144 : 25                         | 82 : 40                              | 235 : 94                                 |
| 1785 | 108 : 30                           | 143 : 49                         | 131 : 56                         | 137 : 33                             | 222 : 32                                 |
| 1786 | 70 : 24                            | 143 : 93                         | 127 : 95                         | 94 : 16                              | 139 : 00                                 |
| 1787 | 124 : 01                           | 119 : 52                         | 107 : 29                         | 137 : 46                             | 221 : 17                                 |
| 1788 | 88 : 24                            | 104 : 26                         | 103 : 86                         | 101 : 22                             | 86 : 68                                  |
| 1789 | 88 : 00                            | 127 : 83                         | 115 : 16                         | 90 : 32                              |  |
| 1790 | 84 : 48                            | 115 : 70                         | 115 : 24                         | 91 : 00                              |  |
| 1791 | 56 : 16                            | 110 : 74                         | 83 : 16                          | 90 : 16                              |  |
| 1792 | 62 : 16                            | 128 : 32                         | 72 : 00                          | 81 : 48                              |  |
| 1793 | 54 : 00                            | 24 : 00                          | 74 : 04                          | 82 : 02                              |  |
| 1794 | 72 : 48                            |                                  | 65 : 00                          | 57 : 00                              |  |
| 1795 | 90 : 00                            |                                  | 91 : 32                          | 116 : 94                             |  |

| Year | Johan<br>Lydig <sup>2)</sup><br><i>rd : sk</i> | Johan Chr.<br>Jeninger <sup>2)</sup><br><i>rd : sk</i> | Sofie<br>Andrejsen<br><i>rd : sk</i> | Andreas<br>Andrejsen<br><i>rd : sk</i> | Josef<br>Lydig<br><i>rd : sk</i> |
|------|--|--|--------------------------------------|--|----------------------------------|
| 1782 |  |  |                                      |  |                                  |
| 1783 | 8 : 00   | 161 : 40   | 34 : 64                              | 41 : 00                                | 23 : 24                          |
| 1784 | 130 : 00                                       | 256 : 13   | 58 : 85                              | 46 : 82 <sup>1/2</sup>                 | 134 : 30                         |
| 1785 | 278 : 32                                       | 162 : 24   | 103 : 75                             | 141 : 06                               | 216 : 24                         |
| 1786 | 100 : 32                                       | 216 : 74   | 112 : 35                             | 182 : 78                               | 212 : 40                         |
| 1787 | 144 : 09                                       | 224 : 81   | 59 : 00                              | 198 : 16                               | 20 : 00                          |
| 1788 | 181 : 88                                       | 175 : 88   | 45 : 00                              | 210 : 08                               |                                  |
| 1789 | 165 : 80                                       | 124 : 30   | 3 : 08                               | 100 : 78                               |                                  |
| 1790 | 175 : 48                                       | 125 : 37   | 0 : 31                               | 12 : 00                                |                                  |
| 1791 | 152 : 28                                       | 96 : 93  |                                      |  |                                  |
| 1792 | 123 : 18                                       | 53 : 21  |                                      |  |                                  |
| 1793 | 138 : 80                                       | 124 : 45   |                                      |  |                                  |
| 1794 | 12 : 00  | 181 : 12   |                                      |  |                                  |
| 1795 |  | 43 : 34  |                                      |  |                                  |

1) Basis of calculations: P. Industrilønninger.

2) From 1790 the amounts stated are in part paid for labour other than weaving.



#### Appendix 4.11

##### Pay regulations of the Royal Danish Navy

##### Pay of seamen

- 1700–1709 Yearly pay 16 rix-dollars, victuals 21<sup>2</sup>/<sub>3</sub> rix-dollars, clothing 3 rix-dollars, quartering-money 4 rix-dollars.
- 1710–1711 Yearly pay 16 rix-dollars, victuals 39 rix-dollars, clothing 3 rix-dollars, quartering-money 4 rix-dollars.
- 1712–1719 No information available.
- 1720–1770 Yearly pay 16 rix-dollars, victuals 21<sup>2</sup>/<sub>3</sub> rix-dollars, quartering-money 4 rix-dollars (but no information for 1747).
- 1771 No information available.
- 1772–1789 Yearly pay 16 rix-dollars, victuals 25 rix-dollars, clothing 3 rix-dollars, quartering-money 4 rix-dollars (but no information for 1782–83).
- 1791–1792 No information available.
- 1793–1800 Yearly pay 15:80 rix-dollars, victuals 34:70 rix-dollars, clothing 2:47 rix-dollars, quartering-money 4 rix-dollars.

Yearly pay was distributed in cash but victuals and clothing in kind. Men accommodated in quarters received no cash quartering-money, while others received quartering-money instead. The change that occurred in yearly pay between 1790 and 1793 was in essentials only an accounting change, since the 16 rix-dollars were not paid out in full but were subject to deduction of "1 per cent to the Navy hospital and one third of 1 per cent for prompt payment" <sup>1)</sup>).

The stated values of victuals are only book-keeping values and do not represent the true value of the comestibles supplied. From 1739 onwards a substantial reduction of the value of rations was brought about by the substitution of an annual cash allowance of 6 rix-dollars 74 *skilling* for the former 4 *tønder* 1/2 *skæppe* of malt <sup>2)</sup>).

##### Sources:

- 1700–07, 11, 1721–28 RA Sjøetaten: Admiralitetet, Sjøetatens originale reglementer 1700–07, 1711, 1721–1728.
- 1707–09 H. G. Garde: Efterretninger om den danske og norske sømagt II, 1833, p. 41.
- 1710, 20, 46, 40–70, 71–81 RA Sjøetaten: Ekstrakter af betalingsreglementer 1.–4. division vedkommende 1710–1785.
- 1729–45 RA Sjøetaten: Admiralitetet, Sjøetatens originale betalingsreglementer 1729–1745.
- 1784–89, 93–1800 RA Sjøetaten. Bogholderkontoret. Betalingsreglementer for Sjøetaten 1784–96 and 1797–1805.

<sup>1)</sup> RA, Sjøetaten: Bogholderkontoret, Betalingsreglementer for Sjøetaten 1784–96: 1784, p. 52.

<sup>2)</sup> Kristof Glamann: Bryggeriets historie i Danmark, 1962, p. 156 ff.

#### Appendix 4.12

##### Pay regulations of the Royal Danish Navy

##### Pay of ship's carpenters, 1st class

- 1737–1784 Yearly pay 16 rix-dollars, victuals  $21\frac{2}{3}$  rix-dollars, clothing 3 rix-dollars, quartering-money 4 rix-dollars, summer day-wage 20 *skilling* for 179 days, winter day-wage 14 *skilling* for 116 days.  
No information available for the years 1747, 1750, 1753, 1771, 1774 and 1783.  
From 1771 onward: victuals 25 rix-dollars.
- 1785–1790 Yearly pay 16 rix-dollars, victuals  $21\frac{2}{3}$  rix-dollars, clothing 3 rix-dollars, quartering-money 4 rix-dollars, summer day-wage 20 *skilling* for 177 days, winter day-wage 14 *skilling* for 127 days.  
No information available for 1786.
- 1791–1792 No information available.
- 1793–1800 Yearly pay 15:80 rix-dollars, victuals 34:70 rix-dollars, clothing  $2:85\frac{1}{2}$  rix-dollars, quartering-money 4:00 rix-dollars, summer day-wage  $19\frac{10}{24}$  *skilling* for 177 days, winter day-wage  $13\frac{41}{48}$  *skilling* for 127 days.

On yearly wages, victuals, clothing and quartering cf. appendix 4.11. From 1784 to 1785, there was a rise from 54:20 rix-dollars to 55:38 rix-dollars in the element of his pay that a carpenter 1st class received as day-wages, but this was because the working-time was changed from 179 summer days and 116 winter days to 177 summer days and 127 winter days. The changes that occurred in the day-wage rates between 1790 and 1793 are probably attributable, as in the case of yearly pay, to an accounting change (cf. app 4.11).

##### Source:

- 1737–45 RA Sjøetaten: Admiralitetet, Sjøetatens originale reglementer 1727–45.  
1746, 48–49, 51–52, 54–58, 60–70, 72–73, 75–80, 84 RA Sjøetaten: 1. departement, Ekstrakter af reglementer 1685–1784.
- 1759 RA Sjøetaten: Bogholderkontoret. Ekstrakter af Sjøetatens reglementer 1759–93.
- 1781–82 RA Sjøetaten: Bogholderkontoret: Konceptbetalingsreglementer for Sjøetaten 1762–90.
- 1785, 87–89, 93, 95 RA Sjøetaten: Bogholderkontoret: Betalingsreglementer for Sjøetaten 1784–96.
- 1790, 94, 96, 98 RA Sjøetaten: 3. departement. Ekstrakter af reglementer 1771–1806. In this 1. departement 1790!
- 1797, 1798–1800 RA Sjøetaten: Bogholderkontoret. Betalingsreglementer 1797–1807.

## Appendix 5.11

## Helligånd parish 1730–99. 5-year average P-indicator.

| Year    | P-indicator <sup>1)</sup> | Margin of error <sup>2)</sup> |             |
|---------|---------------------------|-------------------------------|-------------|
|         |                           | Lower limit                   | Upper limit |
| 1730–34 | 26.57                     | 26.50                         | 26.78       |
| 1735–39 | 27.16                     | 27.16                         | 27.16       |
| 1740–44 | 28.59                     | 28.33                         | 29.24       |
| 1745–49 | 27.71                     | 27.67                         | 27.82       |
| 1750–54 | 31.01                     | 30.92                         | 31.19       |
| 1755–59 | 28.59                     | 28.38                         | 29.10       |
| 1760–64 | 29.84                     | 29.76                         | 30.03       |
| 1765–69 | 29.08                     | 29.03                         | 29.20       |
| 1770–74 | 29.47                     | 29.30                         | 29.88       |
| 1775–79 | 33.15                     | 32.91                         | 33.63       |
| 1780–84 | 38.61                     | 37.59                         | 40.23       |
| 1785–89 | 38.13                     | 37.78                         | 38.70       |
| 1790–94 | 36.00                     | 36.00                         | 36.00       |
| 1795–99 | 37.51                     | 37.51                         | 37.51       |

Basis of calculation: LA Kbh, Helligånd parish register.

- 1) In calculating the values shown in this column, no account is taken of deceased persons of unstated age. Dead infants not recorded at burial as having been stillborn are counted as live births and so are included.
- 2) To calculate the upper and lower limits respectively, it is assumed that all deceased persons of unstated age were under 50 years of age in the former case and over 50 in the latter. To this is added the margin of error deriving from deaths that might in fact have been stillbirths.

## Appendix 5.12

Helligånd parish 1730–1800. Burials and p-indicator.

| Year | Burials | P-indicator | Year | Burials | P-indicator | Year | Burials | P-indicator |
|------|---------|-------------|------|---------|-------------|------|---------|-------------|
| 1730 | 69      | 18.84       | 1754 | 147     | 42.86       | 1778 | 126     | 36.59       |
| 1731 | 65      | 33.85       | 1755 | 178     | 26.97       | 1779 | 101     | 34.00       |
| 1732 | 58      | 22.41       | 1756 | 142     | 35.21       | 1780 | 77      | 43.42       |
| 1733 | 95      | 28.42       | 1757 | 142     | 36.17       | 1781 | 125     | 36.92       |
| 1734 | 64      | 28.57       | 1758 | 165     | 27.16       | 1782 | 140     | 36.69       |
| 1735 | 84      | 27.38       | 1759 | 214     | 21.60       | 1783 | 95      | 39.36       |
| 1736 | 113     | 30.97       | 1760 | 175     | 30.29       | 1784 | 95      | 38.89       |
| 1737 | 137     | 27.01       | 1761 | 113     | 28.83       | 1785 | 117     | 37.07       |
| 1738 | 132     | 31.06       | 1762 | 150     | 35.33       | 1786 | 114     | 32.73       |
| 1739 | 134     | 20.15       | 1763 | 155     | 30.32       | 1787 | 98      | 38.78       |
| 1740 | 201     | 21.89       | 1764 | 143     | 23.78       | 1788 | 103     | 38.83       |
| 1741 | 153     | 29.61       | 1765 | 107     | 34.58       | 1789 | 108     | 43.52       |
| 1742 | 129     | 37.98       | 1766 | 125     | 33.60       | 1790 | 96      | 39.58       |
| 1743 | 138     | 27.94       | 1767 | 105     | 23.81       | 1791 | 140     | 34.29       |
| 1744 | 150     | 29.05       | 1768 | 106     | 33.96       | 1792 | 98      | 35.71       |
| 1745 | 106     | 28.30       | 1769 | 146     | 21.38       | 1793 | 79      | 41.77       |
| 1746 | 151     | 17.80       | 1770 | 122     | 33.61       | 1794 | 112     | 31.25       |
| 1747 | 132     | 31.82       | 1771 | 101     | 32.32       | 1795 | 117     | 40.17       |
| 1748 | 167     | 28.14       | 1772 | 120     | 20.00       | 1796 | 98      | 37.76       |
| 1749 | 108     | 35.19       | 1773 | 87      | 32.56       | 1797 | 91      | 32.97       |
| 1750 | 213     | 23.47       | 1774 | 82      | 30.49       | 1798 | 93      | 36.56       |
| 1751 | 142     | 29.58       | 1775 | 114     | 33.33       | 1799 | 107     | 42.99       |
| 1752 | 123     | 31.71       | 1776 | 108     | 32.41       | 1800 | 92      | 46.74       |
| 1753 | 121     | 30.83       | 1777 | 107     | 28.97       |      |         |             |

Basis of calculation: LA Kbh., Helligånd parish register.

## Appendix 5.13

P-indicator for Copenhagen

| Year | P-indicator |
|------|-------------|
| 1775 | 29.5        |
| 1792 | 33.2        |
| 1793 | 32.2        |
| 1794 | 26.6        |
| 1795 | 30.0        |

Basis of calculation:

1775 RA KommKol, Danske journalsager 1776, F 32.

1792–95 RA Rtk 14.4.

Appendix 5.14

P-indicator 1802–1960. Average for ten-year periods.<sup>1)</sup>

Stillbirths not included.

| Year      | Copenhagen          | Kingdom of Denmark <sup>2)</sup> |
|-----------|---------------------|----------------------------------|
| 1802–09   | 32.99 <sup>3)</sup> | 39.66 <sup>4)</sup>              |
| 1810–19   | 33.63 <sup>5)</sup> | 41.11 <sup>6)</sup>              |
| 1820–29   | 38.47 <sup>7)</sup> | 42.44 <sup>8)</sup>              |
| 1830–39   | 34.59               | 39.25                            |
| 1840–49   | 30.06               | 37.63                            |
| 1850–59   | 29.51 <sup>9)</sup> | 36.57 <sup>10)</sup>             |
| 1860–69   | 27.52               | 35.87                            |
| 1870–79   | 29.98               | 39.33                            |
| 1880–89   | 28.44               | 39.62                            |
| 1890–1900 | 33.90               | 43.50                            |
| 1901–10   |                     | 49.20                            |
| 1911–20   |                     | 52.28                            |
| 1921–30   |                     | 61.68                            |
| 1931–40   |                     | 69.97                            |
| 1941–50   |                     | 74.60                            |
| 1951–60   |                     | 84.35                            |

1) Basis of calculation:

1802–1900: Statistisk tabelværk, 5 rk. A nr. 5, 1905, p. 122–123;

1901–1960: Statistiske undersøgelser, nr. 19, 1966, p. 82–83.

2) As modified by territorial changes.

3) In these years a group with unstated ages occurs. In calculating the figure in the table, this group is excluded. Counting all those of unstated ages as under 50 years of age produce a value of 31.89; counting them as over 50 gives 36.44. Thus the correct value must lie between these two.

4) As note 3: lower value 39.48; upper value 39.94.

5) As note 3: lower value 32.69; upper value 35.42.

6) As note 3: lower value 40.97; upper value 41.31.

7) As note 3: lower value 38.05; upper value 39.32.

8) As note 3: lower value 42.39; upper value 42.51.

9) As note 3: lower value 29.24; upper value 30.13.

10) As note 3: lower value 36.53; upper value 36.65.

Appendix 5.15

Helligånd parish 1730–1799.

P-indicators for various occupational groups.

| Period  | Upper class  |             | Artisans     |             | Petty officials |             | Small tradesmen |             |
|---------|--------------|-------------|--------------|-------------|-----------------|-------------|-----------------|-------------|
|         | Total deaths | P-indicator | Total deaths | P-indicator | Total deaths    | P-indicator | Total deaths    | P-indicator |
| 1730–39 | 52           | 40.38       | 478          | 22.38       | 64              | 35.94       | 124             | 21.77       |
| 1740–49 | 56           | 27.79       | 543          | 22.10       | 135             | 33.33       | 196             | 23.98       |
| 1750–59 | 65           | 30.77       | 576          | 24.31       | 168             | 39.88       | 183             | 18.58       |
| 1760–69 | 85           | 35.29       | 458          | 30.35       | 133             | 36.09       | 145             | 20.00       |
| 1770–79 | 88           | 50.00       | 347          | 29.68       | 104             | 41.35       | 106             | 27.36       |
| 1780–89 | 92           | 45.65       | 321          | 38.01       | 119             | 47.90       | 127             | 36.22       |
| 1790–99 | 69           | 52.17       | 265          | 34.71       | 123             | 33.33       | 139             | 29.49       |

Basis of calculation: LA Kbh Helligånd parish register.

Upper class: Great merchants, high-ranking functionaries, titled persons, persons buried inside the church building.

Artisans: Includes the skilled manufacturing occupations and bakers, brewers and butchers.

Petty officials: Minor employees of the state and the Copenhagen municipality.

Small tradesmen: Provision dealers, cellarers, etc.

Unskilled: Labourers and hodmen.

Other occupations: Includes inmates of charitable institutions, paupers, seafarers, servants etc.

All persons are counted as belonging to the occupations of their respective breadwinners.

| Unskilled    |             | Other occupations |             | Occupations not recorded |             |
|--------------|-------------|-------------------|-------------|--------------------------|-------------|
| Total deaths | P-indicator | Total deaths      | P-indicator | Total deaths             | P-indicator |
| 119          | 29.41       | 68                | 27.94       | 41                       | 53.66       |
| 136          | 30.88       | 218               | 32.57       | 142                      | 43.66       |
| 177          | 21.47       | 305               | 35.75       | 86                       | 58.14       |
| 118          | 25.42       | 179               | 32.96       | 204                      | 36.96       |
| 75           | 25.33       | 160               | 29.38       | 181                      | 26.52       |
| 38           | 31.41       | 144               | 36.81       | 129                      | 35.59       |
| 104          | 24.04       | 169               | 37.86       | 163                      | 49.08       |

## Appendix 5.16

Burials and p-indicator.

Glostrup parish 1680–1809.

| Year                                      | No. of buried | P-indicator <sup>1)</sup> | Margin of P-indicator error <sup>2)</sup> |             |
|---|---------------|---------------------------|---|-------------|
|   |               |                           | Lower limit                               | Upper limit |
| 1680–89                                   | 127           | 27.6                      | 26.7                                      | 29.8        |
| 1690–99                                   | 140           | 22.8                      | 22.4                                      | 24.5        |
| 1700–09                                   | 134           | 23.1                      | 21.5                                      | 28.4        |
| 1710–19                                   | 135           | 26.6                      | 21.9                                      | 39.6        |
| 1720–29                                   | 136           | 26.5                      | 24.6                                      | 31.4        |
| 1730–39                                   | 137           | 31.4                      | 30.1                                      | 34.3        |
| 1740–49                                   | 108           | 36.1                      | 30.2                                      | 46.5        |
| 1750–59                                   | 173           | 22.0                      | 19.0                                      | 32.5        |
| 1760–69                                   | 164           | 29.9                      | 29.2                                      | 31.5        |
| 1770–79                                   | 177           | 33.9                      | 33.0                                      | 35.7        |
| 1780–89 <sup>3)</sup>                     | 129           | 47.3                      | 46.7                                      | 48.0        |
| 1790–99                                   | 147           | 34.6                      | 34.6                                      | 34.6        |
| 1800–09                                   | 150           | 38.6                      | 37.9                                      | 39.8        |
| 1710–19<br>(plague year<br>1711 excepted) | 95            | 27.4                      | 23.8                                      | 36.6        |

Basis of calculation: Glostrup sogns kirkebog 1676–1814, published by Hist. Selsk. for Glostrup og omegn, 1957–59.

<sup>1)</sup> Cases where the age of the deceased is unstated are excluded.

<sup>2)</sup> The two limits of the margins of error are produced by counting the groups of unstated ages as under and over 50 years of age respectively.

<sup>3)</sup> The whole of 1780 and part of 1781 is missing.



## Appendix 5.17

<sup>2</sup>-indicators for the four Jutland dioceses 1765–1800.

| Ecclesiastical year | Ribe diocese | Ålborg <sup>1)</sup> diocese | Århus <sup>1)</sup> diocese | Viborg <sup>1)</sup> diocese | Basis of calculation                       |
|---------------------|--------------|------------------------------|-----------------------------|------------------------------|--|
| 765                 | 22.65        |                              |                             |                              | RA Komm.Koll. da. journalsag. L342         |
| 766                 | 27.93        |                              |                             |                              | RA Komm.Koll. da. journalsag. L1007        |
| 767                 | 33.69        |                              |                             |                              | RA Komm.Koll. da. journalsag. M322         |
| 768                 | 37.94        |                              |                             |                              | RA Komm.Koll. da. journalsag. M571         |
| 769                 | 33.02        |                              |                             |                              | RA Komm.Koll. da. journalsag. N176         |
| 770                 | 34.15        |                              |                             |                              | RA Komm.Koll. da. journalsag. N465         |
| 771                 | 35.79        |                              |                             |                              | LA Vib C4-180                              |
| 772                 | 37.81        |                              |                             |                              | LA Vib C4-180                              |
| 773                 | 34.97        |                              |                             |                              | RA Komm.Koll. da. journalsag. C51          |
| 774                 | 35.58        |                              |                             |                              | LA Vib C4-180                              |
| 775                 | 37.33        | 40.39                        | 33.44                       | 35.79                        | RA Komm.Koll. da. journalsag. F31 + F34-35 |
| 776                 |              |                              |                             | 42.26                        | LA Vib C2-108                              |
| 777                 |              | 53.16                        | 40.85                       | 47.43                        | LA Vib C1-352 + C3-1216 + C2-108           |
| 778                 |              | 46.68                        | 36.29                       | 42.03                        | LA Vib C1-352 + C3-1216 + C2-108           |
| 779                 |              | 28.82                        | 22.50                       | 29.10                        | LA Vib C1-352 + C3-1216 + C2-108           |
| 780                 |              | 27.20                        | 31.75                       | 32.99                        | LA Vib C1-352 + C3-1216 + C2-108           |
| 781                 |              | 42.01                        | 34.65                       | 39.35                        | LA Vib C1-352 + C3-1216 + C2-108           |
| 782                 |              | 47.50                        | 37.50                       | 44.53                        | LA Vib C1-352 + C3-1216 + C2-108           |
| 783                 | 40.84        | 43.66                        | 33.70                       |                              | LA Vib C4-180 + C1-353 + C3-1216           |
| 784                 |              | 43.94                        | 36.17                       |                              | LA Vib C1-353 + C3-1211                    |
| 785                 |              | 39.83                        | 36.02                       |                              | LA Vib C1-353 + C3-1211                    |
| 786                 |              | 43.50                        | 33.20                       |                              | LA Vib C1-353 + C3-1211                    |
| 787                 | 34.14        | 30.97                        | 32.54                       |                              | RA Rtk 14.4 + LA Vib C1-353 + C3-1211      |
| 788                 | 38.38        | 36.42                        | 32.50                       |                              | LA Vib C4-185 + C1-353 + C3-1211           |
| 789                 | 37.89        | 40.95                        | 35.14                       |                              | LA Vib C4-745 + C1-353 + C3-1212           |
| 790                 | 39.36        | 42.45                        | 35.07                       |                              | LA Vib C4-185 + C1-353 + C3-1212           |
| 791                 | 35.85        | 42.39                        | 34.00                       |                              | LA Vib C4-185 + C1-353 + C3-1212           |
| 792                 | 36.47        | 43.56                        | 36.86                       | 42.12                        | RA Rtk 14.4                                |
| 793                 | 33.55        | 40.66                        | 30.49                       | 31.61                        | RA Rtk 14.4                                |
| 794                 | 28.40        | 27.91                        | 25.57                       | 34.76                        | RA Rtk 14.4                                |
| 795                 | 40.25        | 40.30                        | 37.70                       | 47.24                        | RA Rtk 14.4                                |
| 796                 | 39.51        | 45.91                        | 35.94                       |                              | LA Vib C4-745 + C1-354 + C3-1212           |
| 797                 | 41.90        | 49.24                        | 39.92                       |                              | LA Vib C4-742 + C1-354 + C3-1213           |
| 798                 | 36.02        | 46.66                        | 38.60                       |                              | LA Vib C4-745 + C1-354 + C3-1213           |
| 799                 | 39.68        | 47.28                        | 39.51                       |                              | LA Vib C4-742 + C1-354 + C3-1213           |
| 800                 | 35.02        | 40.97                        | 34.52                       |                              | LA Vib C4-745 + C1-354 + C3-1213           |

1) In 1765–74 no report of the age-distribution of deceased persons was prepared.

## Appendix 5.2.

## Helligånd parish 1730–99. Percentage distribution of deaths among age-groups.

|         | Under<br>1 year | 1–4<br>years | 5–9<br>years | 10–19<br>years | 20–29<br>years | 30–39<br>years | 40–49<br>years | 50–59<br>years |
|---------|-----------------|--------------|--------------|----------------|----------------|----------------|----------------|----------------|
| 1730–39 |                 |              |              |                |                |                |                |                |
| Males   | 23.1            | 17.1         | 2.5          | 4.5            | 6.9            | 6.1            | 12.0           | 13.7           |
| Females | 26.9            | 18.2         | 5.0          | 3.0            | 5.2            | 8.2            | 7.2            | 7.6            |
| Total   | 24.9            | 17.7         | 3.7          | 3.8            | 6.1            | 7.2            | 9.7            | 10.7           |
| 1740–49 |                 |              |              |                |                |                |                |                |
| Males   | 27.7            | 18.6         | 2.1          | 2.7            | 6.8            | 8.4            | 7.8            | 11.5           |
| Females | 22.9            | 19.5         | 2.2          | 2.5            | 7.9            | 7.6            | 5.9            | 8.5            |
| Total   | 25.4            | 19.0         | 2.2          | 2.6            | 7.3            | 8.0            | 6.9            | 10.1           |
| 1750–59 |                 |              |              |                |                |                |                |                |
| Males   | 23.9            | 23.3         | 3.3          | 2.2            | 4.8            | 5.1            | 8.6            | 9.9            |
| Females | 18.9            | 22.4         | 2.6          | 1.6            | 7.5            | 7.1            | 8.4            | 7.7            |
| Total   | 21.5            | 22.9         | 3.0          | 1.9            | 6.1            | 6.1            | 8.5            | 8.8            |
| 1760–69 |                 |              |              |                |                |                |                |                |
| Males   | 22.9            | 15.8         | 4.3          | 3.6            | 7.2            | 7.2            | 10.7           | 9.7            |
| Females | 20.9            | 16.9         | 2.6          | 3.5            | 6.8            | 8.7            | 9.5            | 8.4            |
| Total   | 22.0            | 16.3         | 3.5          | 3.6            | 7.0            | 7.9            | 10.1           | 9.1            |
| 1770–79 |                 |              |              |                |                |                |                |                |
| Males   | 21.1            | 16.4         | 3.0          | 3.8            | 8.1            | 5.7            | 9.4            | 11.7           |
| Females | 17.9            | 17.9         | 2.6          | 3.9            | 8.2            | 9.5            | 8.9            | 11.0           |
| Total   | 19.5            | 17.1         | 2.8          | 3.8            | 8.2            | 7.6            | 9.2            | 11.3           |
| 1780–89 |                 |              |              |                |                |                |                |                |
| Males   | 15.8            | 13.3         | 3.2          | 3.3            | 7.5            | 9.3            | 10.0           | 13.0           |
| Females | 13.0            | 12.6         | 3.2          | 5.0            | 6.6            | 10.4           | 7.8            | 9.6            |
| Total   | 14.5            | 13.0         | 3.2          | 4.1            | 7.1            | 9.8            | 9.0            | 11.4           |
| 1790–99 |                 |              |              |                |                |                |                |                |
| Males   | 16.9            | 15.5         | 2.8          | 3.7            | 6.9            | 9.8            | 9.6            | 10.0           |
| Females | 14.6            | 16.1         | 4.4          | 2.5            | 9.0            | 7.1            | 7.7            | 8.3            |
| Total   | 15.7            | 15.8         | 3.6          | 3.1            | 8.0            | 8.4            | 8.6            | 9.1            |

Basis of calculation: LA Kbh., Helligånd parish register.

| 60-69<br>years | 70-79<br>years | 80-89<br>years | 90-99<br>years | 100 +<br>years | Unstated |
|----------------|----------------|----------------|----------------|----------------|----------|
| 6.9            | 6.1            | 0.6            | 0.0            | 0.2            | 0.2      |
| 8.5            | 7.4            | 2.6            | 0.2            | 0.0            | 0.0      |
| 7.7            | 6.7            | 1.6            | 0.1            | 0.1            | 0.1      |
| 8.0            | 3.5            | 2.5            | 0.0            | 0.0            | 0.5      |
| 9.3            | 7.8            | 4.7            | 0.6            | 0.0            | 0.6      |
| 8.6            | 5.5            | 3.6            | 0.3            | 0.0            | 0.6      |
| 9.0            | 6.8            | 2.1            | 0.3            | 0.1            | 0.6      |
| 9.0            | 8.3            | 5.4            | 0.8            | 0.4            | 0.0      |
| 9.0            | 7.5            | 3.7            | 0.5            | 0.3            | 0.3      |
| 9.4            | 5.7            | 2.8            | 0.4            | 0.1            | 0.3      |
| 7.3            | 8.2            | 6.3            | 0.8            | 0.0            | 0.2      |
| 8.4            | 6.9            | 4.5            | 0.6            | 0.1            | 0.2      |
| 11.1           | 6.4            | 2.3            | 0.6            | 0.0            | 0.6      |
| 7.6            | 7.1            | 3.7            | 0.7            | 0.2            | 0.7      |
| 9.4            | 6.7            | 3.0            | 0.7            | 0.1            | 0.7      |
| 11.6           | 9.0            | 3.7            | 0.4            | 0.0            | 0.0      |
| 11.8           | 11.0           | 5.0            | 0.6            | 0.0            | 3.8      |
| 11.7           | 9.9            | 4.3            | 0.5            | 0.0            | 1.8      |
| 11.2           | 8.8            | 4.5            | 0.2            | 0.0            | 0.0      |
| 11.0           | 12.6           | 5.4            | 1.3            | 0.2            | 0.0      |
| 11.1           | 10.8           | 5.0            | 0.8            | 0.1            | 0.0      |

Appendix 5.31

Helligånd parish. Causes of death within the various age-groups 1730–39.

| Cause of death                                     | Under 1<br>year | 1–4<br>years | 5–9<br>years | 10–19<br>years | 20–29<br>years | 30–39<br>years | 40–49<br>years | 50–59<br>years |
|--|-----------------|--------------|--------------|----------------|----------------|----------------|----------------|----------------|
| Internal causes                                    | 144             | 20           | 5            | 7              | 4              | 3              | 2              | 1              |
| Maladies of the teeth                              | 41              | 57           | –            | –              | –              | –              | –              | –              |
| Smallpox   | 16              | 43           | 7            | 1              | 1              | –              | –              | –              |
| Measles  | 6               | 12           | 2            | –              | 1              | –              | –              | –              |
| Fever  | 7               | 7            | 4            | 9              | 15             | 8              | 13             | 6              |
| Causes associated<br>with childbirth <sup>1)</sup> | –               | –            | –            | –              | 2              | 7              | 1              | –              |
| Chest ailments                                     | 18              | 24           | 9            | 10             | 19             | 26             | 38             | 60             |
| Dropsy   | –               | –            | 1            | 1              | –              | 4              | 7              | 3              |
| Wasting sicknesses <sup>2)</sup>                   | –               | 3            | 4            | 3              | 6              | 14             | 26             | 16             |
| Accidents  | –               | –            | –            | 1              | –              | –              | –              | 3              |
| Old age  | –               | –            | –            | –              | –              | –              | –              | 2              |
| Other causes                                       | 5               | 2            | 3            | 4              | 10             | 6              | 5              | 11             |
| Unstated   | –               | –            | –            | –              | –              | –              | –              | –              |

Basis of calculation: LA Kbh, Helligånd parish register.

<sup>1)</sup> Comprises only the mothers.

<sup>2)</sup> Including tuberculosis.

Appendix 5.32

Helligånd parish. Causes of death within the various age-groups 1790–99.

| Cause of death                                     | Under 1<br>year | 1–4<br>years | 5–9<br>years | 10–19<br>years | 20–29<br>years | 30–39<br>years | 40–49<br>years | 50–59<br>years |
|--|-----------------|--------------|--------------|----------------|----------------|----------------|----------------|----------------|
| Internal causes                                    | 57              | 24           | 6            | 1              | 5              | 9              | 12             | 5              |
| Maladies of the teeth                              | 18              | 21           | 1            | –              | –              | –              | –              | –              |
| Smallpox   | 16              | 39           | 8            | 3              | 2              | –              | –              | –              |
| Measles  | 7               | 8            | –            | 1              | 2              | 1              | –              | –              |
| Fever  | 5               | 18           | 7            | 11             | 20             | 9              | 14             | 8              |
| Causes associated<br>with childbirth <sup>1)</sup> | –               | –            | –            | –              | 8              | 11             | 2              | –              |
| Chest ailments                                     | 8               | 13           | 2            | 3              | 12             | 11             | 16             | 21             |
| Dropsy   | –               | 2            | 2            | 1              | 5              | 3              | 5              | 11             |
| Wasting sicknesses <sup>2)</sup>                   | 4               | 8            | 2            | 3              | 12             | 12             | 19             | 25             |
| Accidents  | –               | 1            | 1            | 2              | 2              | 2              | 1              | 2              |
| Old age  | –               | –            | –            | –              | –              | –              | –              | 1              |
| Other causes                                       | 18              | 12           | 3            | 6              | 9              | 18             | 13             | 13             |
| Unstated   | 29              | 17           | 5            | 1              | 5              | 11             | 7              | 8              |

Basis of calculation: LA Kbh, Helligånd parish register.

<sup>1)</sup> Comprises only the mothers.

<sup>2)</sup> Including tuberculosis.

| 60-69<br>years | 70-79<br>years | 80-89<br>years | 90-99<br>years | 100 +<br>years | Not<br>stated | Total |
|----------------|----------------|----------------|----------------|----------------|---------------|-------|
| 2              | 1              | -              | -              | -              | -             | 189   |
| -              | -              | -              | -              | -              | -             | 98    |
| -              | -              | -              | -              | -              | -             | 68    |
| -              | -              | -              | -              | -              | -             | 21    |
| 1              | 1              | -              | -              | -              | -             | 71    |
| -              | -              | -              | -              | -              | -             | 10    |
| 28             | 11             | -              | -              | -              | -             | 243   |
| 1              | 1              | -              | -              | -              | -             | 18    |
| 1              | -              | -              | -              | -              | -             | 73    |
| -              | -              | -              | -              | -              | 1             | 5     |
| 25             | 49             | 15             | 1              | 1              | -             | 93    |
| 8              | -              | -              | -              | -              | -             | 54    |
| -              | -              | -              | -              | -              | -             | 0     |

| 60-69<br>years | 70-79<br>years | 80-89<br>years | 90-99<br>years | 100 +<br>years | Not<br>stated | Total |
|----------------|----------------|----------------|----------------|----------------|---------------|-------|
| 9              | 2              | 2              | -              | -              | -             | 132   |
| -              | -              | -              | -              | -              | -             | 40    |
| -              | -              | -              | -              | -              | -             | 68    |
| -              | -              | -              | -              | -              | -             | 19    |
| 9              | 4              | -              | -              | -              | -             | 105   |
| -              | -              | -              | -              | -              | -             | 21    |
| 24             | 13             | 1              | -              | -              | -             | 124   |
| 9              | 3              | -              | -              | -              | -             | 41    |
| 23             | 5              | -              | 1              | -              | -             | 114   |
| 1              | -              | -              | -              | -              | -             | 12    |
| 13             | 72             | 48             | 7              | 1              | -             | 142   |
| 20             | 4              | -              | -              | -              | -             | 116   |
| 6              | 8              | -              | -              | -              | -             | 97    |

## Appendix 5.33

Helligånd parish. Causes of death 1730-99.

Percentage distribution by 5-year groups.

| Cause of death                                     | 1730-34 | 1735-39 | 1740-44 | 1745-49 | 1750-54 | 1755-59 |
|--|---------|---------|---------|---------|---------|---------|
| Internal causes                                    | 16.52   | 21.83   | 22.67   | 28.01   | 25.87   | 23.42   |
| Maladies of the teeth                              | 9.69    | 10.67   | 8.94    | 3.46    | 2.28    | 0.83    |
| Smallpox   | 7.41    | 7.00    | 8.03    | 6.17    | 10.59   | 12.96   |
| Measles  | 1.71    | 2.50    | 0.13    | 2.56    | 1.34    | 2.26    |
| Fever  | 11.97   | 4.83    | 12.82   | 8.13    | 5.63    | 7.25    |
| Causes associated<br>with childbirth <sup>1)</sup> | 1.14    | 1.00    | 1.04    | 1.66    | 2.28    | 1.90    |
| Chest ailments                                     | 26.50   | 25.00   | 18.91   | 23.49   | 22.12   | 18.19   |
| Dropsy   | 1.99    | 1.83    | 1.42    | 3.77    | 1.88    | 1.55    |
| Tuberculosis and<br>wasting sicknesses             | 5.98    | 10.00   | 8.16    | 8.43    | 10.86   | 11.53   |
| Accidents  | 0.28    | 0.67    | 0.26    | 1.36    | 1.61    | 1.07    |
| Old age  | 9.97    | 9.67    | 11.79   | 4.82    | 5.23    | 4.16    |
| Other causes                                       | 6.84    | 5.00    | 5.57    | 6.78    | 8.85    | 13.91   |
| Unstated   | 0.00    | 0.00    | 0.26    | 1.36    | 1.47    | 0.95    |
| Total%   | 100.00  | 100.00  | 100.00  | 100.00  | 100.01  | 99.98   |
| Total deaths                                       | 351     | 600     | 771     | 664     | 764     | 841     |

Basis of calculation: LA Kbh, Helligånd parish register.

<sup>1)</sup> Comprises only the mothers.

| 1760-64 | 1765-69 | 1770-74 | 1775-79 | 1780-84 | 1785-89 | 1790-94 | 1795-99 |
|---------|---------|---------|---------|---------|---------|---------|---------|
| 27.03   | 23.60   | 24.80   | 23.02   | 15.79   | 15.74   | 11.62   | 14.03   |
| 0.54    | 0.85    | 0.78    | 1.62    | 1.69    | 5.00    | 4.19    | 3.56    |
| 4.48    | 8.49    | 1.95    | 7.55    | 5.26    | 7.96    | 7.43    | 5.73    |
| 0.41    | 0.00    | 5.66    | 0.00    | 1.32    | 0.00    | 3.05    | 0.59    |
| 13.18   | 8.49    | 14.06   | 13.13   | 14.47   | 11.67   | 8.95    | 11.46   |
| 2.45    | 2.38    | 1.95    | 1.62    | 3.57    | 2.22    | 2.48    | 1.58    |
| 18.75   | 15.45   | 11.33   | 11.15   | 14.10   | 12.22   | 11.81   | 12.25   |
| 1.77    | 2.21    | 2.15    | 2.88    | 3.20    | 5.19    | 3.62    | 4.35    |
| 12.91   | 15.62   | 18.75   | 17.63   | 16.17   | 16.48   | 11.24   | 10.87   |
| 0.54    | 0.34    | 0.78    | 1.08    | 2.07    | 0.37    | 0.76    | 1.58    |
| 5.16    | 7.98    | 6.84    | 8.81    | 9.59    | 10.19   | 13.90   | 13.64   |
| 11.14   | 12.22   | 7.81    | 9.71    | 9.59    | 11.85   | 13.71   | 8.70    |
| 1.63    | 2.38    | 3.13    | 1.80    | 3.20    | 1.11    | 7.24    | 11.66   |
| 99.99   | 100.01  | 99.99   | 100.00  | 100.02  | 100.00  | 100.00  | 100.00  |
| 736     | 589     | 512     | 556     | 532     | 540     | 525     | 506     |

Appendix 5.34

Helligånd parish 1730–99.

Causes of death of deceased infants aged under 1 year.

Percentage distribution.

| Causes of death                           | 1730–34   | 1735–39    | 1740–44    | 1745–49    | 1750–54    | 1755–59    | 1760–64    |
|---|-----------|------------|------------|------------|------------|------------|------------|
| Internal causes                           | 53.6      | 64.7       | 67.5       | 80.7       | 72.9       | 78.9       | 74.2       |
| Maladies of the teeth                     | 17.9      | 17.0       | 18.0       | 5.8        | 4.8        | 2.3        | 1.8        |
| Smallpox                                  | 7.1       | 6.5        | 7.7        | 4.1        | 9.0        | 9.7        | 4.3        |
| Measles                                   | 4.8       | 1.3        | 0.5        | 1.8        | 2.4        | 0.0        | 1.2        |
| Fever                                     | 7.1       | 0.7        | 2.1        | 0.6        | 0.0        | 0.0        | 0.0        |
| Chest ailments                            | 7.1       | 7.8        | 1.0        | 4.7        | 4.2        | 2.3        | 10.4       |
| Tuberculosis and<br>wasting sicknesses    | 0.0       | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.6        |
| Other causes                              | 2.4       | 2.0        | 3.1        | 0.6        | 2.4        | 5.1        | 4.3        |
| Unstated                                  | 0.0       | 0.0        | 0.0        | 1.7        | 4.2        | 1.7        | 3.1        |
| <b>Total deaths aged<br/>under 1 year</b> | <b>84</b> | <b>153</b> | <b>194</b> | <b>171</b> | <b>166</b> | <b>175</b> | <b>163</b> |

Causes of death of deceased infants aged 1–4 years.

Percentage distribution

| Causes of death                        | 1730–34   | 1735–39    | 1740–44    | 1745–49    | 1750–54    | 1755–59    | 1760–64    |
|--|-----------|------------|------------|------------|------------|------------|------------|
| Internal causes                        | 8.3       | 13.8       | 17.4       | 22.7       | 33.8       | 21.1       | 42.6       |
| Maladies of the teeth                  | 31.7      | 34.9       | 22.5       | 9.1        | 6.0        | 1.4        | 0.9        |
| Smallpox                               | 28.3      | 24.8       | 31.9       | 24.2       | 35.1       | 39.2       | 18.5       |
| Measles                                | 3.3       | 9.2        | 0.0        | 9.8        | 4.0        | 7.7        | 0.9        |
| Fever                                  | 8.3       | 1.8        | 10.1       | 3.0        | 2.0        | 5.7        | 1.9        |
| Chest ailments                         | 18.3      | 11.9       | 11.6       | 23.5       | 11.9       | 9.6        | 17.6       |
| Tuberculosis and<br>wasting sicknesses | 0.0       | 2.8        | 1.4        | 3.0        | 0.0        | 4.3        | 1.9        |
| Other causes                           | 1.7       | 0.9        | 5.1        | 3.8        | 2.6        | 11.0       | 14.8       |
| Unstated                               | 0.0       | 0.0        | 0.0        | 0.8        | 4.6        | 0.0        | 0.9        |
| <b>Total deaths 1–4 years</b>          | <b>60</b> | <b>108</b> | <b>138</b> | <b>135</b> | <b>155</b> | <b>208</b> | <b>108</b> |

Bases of calculations: LA Kbh, Helligånd parish register.



| 1765-69 | 1770-74 | 1775-79 | 1780-84 | 1785-89 | 1790-94 | 1795-99 |
|---------|---------|---------|---------|---------|---------|---------|
| 74.2    | 77.8    | 67.0    | 65.7    | 55.7    | 31.0    | 41.9    |
| 1.6     | 1.9     | 2.0     | 5.3     | 11.4    | 12.0    | 9.7     |
| 7.0     | 0.9     | 7.0     | 6.6     | 7.8     | 8.0     | 12.9    |
| 0.0     | 2.8     | 0.0     | 3.9     | 0.0     | 7.0     | 0.0     |
| 3.1     | 0.0     | 1.0     | 2.6     | 3.8     | 3.0     | 3.2     |
| 6.3     | 5.6     | 8.0     | 5.3     | 2.5     | 4.0     | 6.5     |
| 0.0     | 3.7     | 1.0     | 0.0     | 2.5     | 3.0     | 1.6     |
| 5.5     | 2.8     | 8.0     | 6.6     | 13.9    | 18.0    | 0.0     |
| 2.3     | 4.6     | 6.0     | 3.9     | 2.5     | 14.0    | 24.2    |
| 128     | 108     | 100     | 76      | 79      | 100     | 62      |

| 1765-69 | 1770-74 | 1775-79 | 1780-84 | 1785-89 | 1790-94 | 1795-99 |
|---------|---------|---------|---------|---------|---------|---------|
| 25.0    | 30.6    | 32.7    | 15.3    | 16.3    | 13.2    | 16.1    |
| 0.9     | 2.4     | 7.1     | 8.5     | 22.5    | 11.8    | 13.8    |
| 29.6    | 7.1     | 27.6    | 30.5    | 27.5    | 29.0    | 19.5    |
| 0.0     | 25.9    | 0.0     | 6.8     | 0.0     | 6.6     | 3.4     |
| 3.7     | 9.4     | 9.2     | 16.9    | 10.0    | 7.9     | 13.8    |
| 22.2    | 7.1     | 6.1     | 10.2    | 11.3    | 9.2     | 6.9     |
| 5.6     | 12.9    | 6.1     | 3.4     | 2.5     | 6.6     | 3.4     |
| 10.2    | 4.7     | 10.2    | 8.5     | 10.0    | 10.5    | 8.0     |
| 2.8     | 0.0     | 1.0     | 0.0     | 0.0     | 5.3     | 14.9    |
| 108     | 85      | 98      | 59      | 80      | 76      | 87      |

# List of abbreviations

|               |  |   |
|---------------|--|---|
| <i>fj</i>     | <i>fjering</i>   | See page 124.   |
| <i>fjkr</i>   | <i>fjeringkar</i>  | See page 124.   |
| GenToldkamm   | Generaltoldkammeret  | The Customs Department  |
| KB            | Det kongelige Bibliotek  | The Royal Library, Copenhagen   |
| Kcal          | Kilocalorier   | kilo-calories   |
| KommKoll      | Kommercekollegiet  | The Board of Trade  |
| LA Kbh        | Landsarkivet for Sjælland m.v.   | The Zealand etc. Provincial Archives, Copenhagen  |
| La Vib        | Landsarkivet for Nørrejylland  | The North Jutland Provincial Archives, Viborg   |
| <i>lispd</i>  | <i>lispund</i>   | See page 124.   |
| <i>skp</i>    | <i>skæppe</i>  | See page 124.   |
| <i>skippd</i> | <i>skippund</i>  | See page 124.   |
| <i>ott</i>    | <i>otting</i>  | See page 124.   |
| <i>ottkr</i>  | <i>ottingkar</i>   | See page 124.   |
| P             | Prishistorisk materiale på Københavns Universitets Institut for Økonomisk Historie | Price-history data. This refers to a collection of transcripts and manuscripts at the Institute of Economic, History, University of Copenhagen. |
| <i>pd</i>     | <i>pund</i>  | See page 124.   |
| RA            | Rigsarkivet  | The Danish National Archives, Copenhagen  |
| <i>rd</i>     | <i>rigsdaler</i>   | See page 123.   |
| Rtk           | Rentekammeret  | The Treasury  |
| <i>sk</i>     | <i>skilling</i>  | See page 123.   |
| <i>td</i>     | <i>tønder</i>  | See page 124.   |
| UB 1          | Universitetsbibliotekets 1ste afdeling   | University Library, Department No. 1, Copenhagen  |
| VA II         | Vejledende arkivregistratur II, RA   | Main registry of records II, RA   |
| VA III        | Vejledende arkivregistratur III, RA  | Main registry of records III, RA  |

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