## CHAPTER I.-PRICES.

## § 1. Wholesale Prices.

1: General.-Information regarding variations in wholesale prices in Melbourne for 1925 and previous years is given herein. The investigation, commenced in 1912, included the collection of prices for years back to 1861 and the computation of index-numbers in connexion therewith. A statement of the results obtained and an explanation of the methods of collection and computation adopted will be found in Labour Report No. 1, pp. 43 to 66 ,

The data upon which the investigation is based were obtained mainly from reports of Melbourne market prices published in the ordinary press and in special trade reviews. In any case of doubt as to the reliability of the figures, the records thus obtained were verified by reference to well-known business firms dealing in the articles in question. Every care was taken to ensure that the prices quoted for each article refer to a uniform quality, and, in cases where several sources of information- were utilized for obtaining prices of single commodities, special precautions were taken to ensure substantial continuity of quality or grade. In most cases, monthly prices were obtained (but where daily or weekly quotations were available, these were adopted), and arithmetic averages for the several years were computed. In regard, however, to a few commodities, such as coal, tea, cotton and wool, since monthly prices were not available for back years yearly averages, based in each case on reliable data, were secured.

It was at first intended to oltain records on the lines indicated for a uniform list of commodities for the capital city in each State. . Owing, however, to the large amount of work involved, and to the difficulty experienced in obtaining regularly the prices of anything like a uniform representative list of commodities from the information published insome of these cities; this idea has for the present been abandoned.
2. Basis.-Retail prices have the advantage that a comparatively small list of commodities suffices to represent a large proportion of the average expenditure. They are, however, subject to the difficulty that their variations depend largely upon local conditions, and it is, therefore, necessary to collect the data over a wide area. Wholesale prices, on the other hand, are fixed usually at one or two centres, but a much larger list of commodities must be covered.

The index-numbers up to the year 1911 are based on the prices of 80 commodities, but since that year the number has been increased to 92,* The methods followed for the computation of the wholesale price indexnumbers are the same as those adopted in regard to retail prices. The commodities included, the units of measurements for which the prices are taken, and the mass-units indicating the relative extent to which each commodity in the units of measurement specified is used or consumed, are shown in the following statement.

[^0]Melbourne Wholesale Prices-Commodities included, Units of Measurement, and "Mass-Units."

3. Index-Numbers.-Index-numbers have been computed for each group of commodities, as well as for all groups combined. These indexnumbers are shown in the following table -

Melbourne Wholesale Prices-Index-Numbers, 1861 to 1925, Computed with Year 1911 as Base $(=1,200)$.

| reate. | $\underset{\text { Metaids }}{\text { I }}$ and Cina! |  |  | $\begin{gathered} \text { IV. } \\ \text { badry } \\ \text { Produce. } \end{gathered}$ | v. Grocer le9. | VI. <br> Meat. | VII. <br> Bullding Materials | VIII. Cireml. c.als. | All Commodition connbited. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1861 | 1,438 | 1,381 | 1,588 | 1,008 | 1,983 | . | 1,070 | 2,030 | 1,538 |
| 1871 | 1,098 | 1,257 | 1,236 | 884 | 1,586 |  | 1,044 | 1,409 | 1,229 |
| 1881 | 1,178 | 1,115 | 1,012 | 935 | 1,421 |  | 1,091 | 1,587 | 1,121 |
| $189]$ | 895 | 847 | 1,024 | ${ }^{095}$ | 1,032 | 888 | 880 | 1,194 | ${ }_{974}^{945}$ |
| 1001 | 1,061 | 774 | 988 | 1,020 | 1,048 | 1,345 | 841 | 917 | 974 |
| 1911 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 |
| 1912 | 1,021 | 091 | 1,370 | 1,206 | 1,052 | 1,367 | 1,057 | 978 | 1,170 |
| 1913 | 1,046 | 1,070 | 1,097 | 1,064 | 1,024 | 1,252 | 1,188 | 995 | 1,088 |
| 1914 | 1,099 | 2,032 | 1,207 | 1,137 | 1,021 | 1,507 | 1,081 | 1,253 | 1,149 |
| 1915 | I,284 | 1,017 | 2,162 | 1.530 | 1,133 | 2,435 | 1,275 | 1,598 | 1,604 |
| 1916 | 1,695 | 1,423 | 1,208 | 1,485 | 1,322 | 2,615 | 1,491 | 1,760 | 1,604 |
| 1917 | 2,129 | 2,008 | 1,157 | 1,423 | 1,343 | 2,403 2,385 |  | 2.171 3.225 | 1,962 |
| 1918 | $\mathbf{2 , 4 1 6}$ $\mathbf{2 , 1 2 5}$ | $\underset{\mathbf{2 , 3 6 3}}{2,360}$ | 1,444 | 1,454 $\mathbf{1}, 651$ | 1,422 | 2,385 2,348 | 2,686 2,851 | 3,225 2,808 | 1,934 |
| 1929 | 2,208 | 2,624 | 2,439 | 2,209 | 1,918 | 8,279 | 3,226 | 2,825 | 2,480 |
| 1921 | 2,178 | 1,382 | 1,787 | 2,000 | 1,976 | 2,158 | 2,733 | 2,303 | 1,903 |
| 1922 | 1,942 | 1,681 | 1,628 | 1,648 | 1,869 | 1,787 | 2,005 | 1,985 | 1,758 |
| 1923 | 1,826 | 2,148 | 1,778 | 1,837 | 1,746 | 2,579 | 2,025 | 1,933 | 1,944 |
| 1024 | 1,835 | 2,418 | 1,647 | 1,653 | 1,721* | 2,223 | 1,815 | 1,800 | 1,885 |
| 1925 | 1.85:2 | 1.966 | 1,797 | 1,636 | 1,723 | 2,212 | 1,71t | t,790 | 1,844 |

NoTg_-Tho figures given in this table are comparable in the vertical columns, but are not directly comparabie horizontally. The Index-numbetr are reversible.

The index-numbers in each case have been computed with the prices in the year 1911 as base; in other words, they show the amount which would have had to be expended in each of the years specified in order to purchase what would have cost $£ 1,000$ in 1911 distributed in purchasing the relative quantities (indicated by the mass-units) of the several commodities included in such group, and in all groups respectively. Thus, in the last column the cost of the relative quantities of the various commodities was 1,229 in 1871, and 974 in 1901, as compared with 1,000 in 1911 and 1,844 in 1925. In other words, prices were lower in 1911 than in either 1871 or 1925 , and the pur-chasing-power of money in 1911 was accordingly greater. Again, prices were higher in 1911 than in 1901, and the purchasing-power of money in the former year was therefore less.

The general index-number for the year 1925 shows a decrease of 2.2 per cent. compared with that for 1924 . In Groups I., IIJ., and V. increases of $0.9,9.1$, and 0.1 per cent. respectively were recorded. All other grotps showed decreases ranging from 0.5 per cent. in the case of Group VI. (Meat) to $\mathbf{1 8 . 7}$ per cent. in Group II. (Jute, Leather, ete.)

The index-numbers for the full period from 1871 to 1911 (and for 1861 and 1866) are given in Report No. 1, page 48.
4. Quarterly Variations in Price Levels.-The following table gives the index-numbers for the four quarters of 1925 and the first quarter of 1926 :-

Melbourne Wholesale Pricas-Quarteriy Index-Numbers for 1825 and First Quarter, 1828 (Base $1911=1,000$ ).

| Group. |  |  | No. ofCom. modities. | Indez Numbers. |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | $\begin{gathered} \text { Jant. } \\ \text { to } \\ \text { Mareh, } \\ 1025 . \end{gathered}$ | $\begin{aligned} & \text { April } \\ & \text { to } \\ & \text { June, } \\ & \text { 1025. } \end{aligned}$ | July Sept, 1025. | $\begin{gathered} \text { oct. } \\ \text { to } \\ \text { Dec., } \\ \text { ig25. } \end{gathered}$ | $\begin{gathered} \text { Jan. } \\ \text { to } \\ \text { March, } \\ \text { 1926. } \end{gathered}$ |
| J. Metrus and Coal |  | $\cdots$ | 14 | 1,942 | 1,830 | 1,840 | 1,885 | 1,008 |
| II. Jute, Isather, etc. |  | . | 10 | 2,244 | 2,012 | 1,865 | 1,745 | 1,705 |
| IV. Agriaultural Produce |  | $\cdots$ | 16 | 1,679 | 1,684 | 1,780 | 2,042 | 1,892 |
| IV. Grocerles .. | $\because$ | $\because$ | 21 | 1,742 | 1,087 | 1,720 | 1,768 | 1,790 |
| VI. Meat $\because$ |  | : | 3 | 2,239 | 2,247 | 2,601 | 1,961 | 1.809 |
| VII. Bullding Materints | * |  | 10 | 1,676 | 1,746 | 1,727 | 1,004 | 1.640 |
| VIII. Chemtcals .. |  |  | 7 | 1,784 | 1,767 | 1,769 | 1.849 | 1,784 |
| All Groups(a) | . |  | 02 | 1,848 | 1,820 | 1,847 | 1,850 | 1,841 |

: a) Welghtef averago.
5. Variations since Outbreak of War.-The variations in the indexnumbers of the separate commodity groups for the years 1915 to 1925 , and for each month from January, 1925; to April, 1926, are shown in the following table, taking July, 1914, the last month before the outbreak of war, as base ( $=1,000$ ) for each group :-

Melbourne Wholesale Prices, Index-Numbers, July 1914, Years 1915 to 1925, and Monthly, January, 1925, to April, 1926. (Base-July, $1914=1,000$ ).

| Pertod. | $\begin{gathered} \text { r. } \\ \text { Metolts } \\ \text { and } \\ \text { Coal. } \end{gathered}$ | II. Leathẹr ste. |  | IV. <br> Pro- <br> duce. | Grocerles | Moat. | YII. Bullding Lals. - | VתI. <br> Chemicals. | $\stackrel{\text { Graps. }}{ }$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Juty 1914 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 |
| Year 1015 | 1,186 | 934 | 2,024 | 1,272 | 1,098 | 1,502 | 1,184 | 1.400 | 1,406 |
| - 1916 | 1,539 | 1,807 | 1,130 | 1.235 | 1,266 | 1,551 | 1,361 | 1,716 | 1,318 |
| " 1917 | 1,919 | 1.841 | 1,084 | 1.181 | 1,302 | 1,480 | 1,722 | 2,141 | 1,456 |
| " 1918 | 2,197 | 2.324 | 1,351 | $1+210$ | 1,378 | 1,460 | 2,448 | 3,085 | 1,695 |
| ${ }^{\prime \prime} 1919$ | 1,930 | 2,169 | 1,858 | 1,373 | 1.489 | 1,448 | 2,002 | 2,827 | 1,801 |
| " 1920 | 2,091 | 2,430 | 2,288 | 1,840 | 1,860 | 2,022 | 2,944 | 2,764 | 2.178 |
| \# 1921 | 1,974 | 1,250 | 1,653 | 1,069 | 1,916 | 1,381 | 2.495 | 2, 1246 | 1.668 |
| " 1922 | 1,763 | 1,543 | 1,529 | 1,370 | 1,811 | 1,102 | 1,830 | 1,917 | 1,541 |
| .. 1923 | 1,658 | 1,072 | 1,664 | 1,627 | 1.693 | 1, | 1,848 | 1,885 | 1,704 |
| " 1924 | 1,667 | 2,220 1,808 | $1,64]$ 1,681 | 1,878 1,360 | 1,068 1,670 | 1,371 1,364 | 2, 1,656 1,602 | 1,761 1,748 | 1,653 |
| " 1926 | 1,682 | 1,80* | 1,681 | 1,860 | 1,670 | 1,364 | 1,602 | 1,746 | 1,617 |
| Jan. 1025 | 1,079 | 2,115 | 1,501 | 1,205 | 1,097 | 1,302 | 1,521 | 1.740 | 1,633 |
| Feb. | 1,669 | 2,086 | 1,564 | 1,226 | 1.689 | 1,423 | 1,518 | 1,740 1,740 | 1,025 |
| Mar | 1,670 | 1,082 1,003 | 1,558 | 1,306 | 1,677 1,650 | 1,327 | 1,530 | 1,728 | 1,584 |
| May | 1, 761 | 1,1802 | 1,589 | 1,430 | 1,665 | 1,335 | 1,661 | 1,728 | 1,502 |
| June | 1,659 | 1,886 | 1,591 | 1,420 | 1,657 | 1,510 | 1,673 | 1,714 | 1,025 |
| July | 1,663 | 1,744 | 1,643 | 1,404 | 1,067 | 1,492 | 1,005 | 1,710 | 1,018 |
| August | 1.688 | 1,780 | 1,681 | 1,408 | 1,669 | 1,519 | 1.656 | 1,716 | 1,620 |
| 8 pt . | 1,748 | 1,082 | 1,706 | 1,418 | 1,665 | 1,432 | 1,588 | 1,718 | 1,818 |
| Oct. | 1,700 | ${ }_{1}^{1,827}$ | 1,848 | 1,437 1,400 | 1,654 1,670 | 1,304 1,170 | 1,550 | 1,834 1,884 1 | 1,631 |
| Nov. | 1,704 | 1,1857 | 1,904 | 1,408 | 1,670 | 1,148 | 1,527 | 1,884 | 1,647 |
| Jan. 1928 | 1,733 | 1,000 | 1,871 | 1.407 | 1,072 | 1,159 | 1,318 | 1,740 | 1,613 |
| Feb. | 1,735 | 1,572 | 1,851 | 1,481 | 1,881 | 1,094 | 1,491 | 1,740 | 1,001 |
| March, | 1,782 | 1,525 | 1,873 | 1,648 | 1,678 | 1,249 | 1,481 | 1,740 | 1.627 |
| Aprtt ${ }^{\text {. }}$ | 1,734 | 1,514 | 1,870 | 1,669 | 1,678 | 1,530 | 1,478 | 1,732. | 1,6i6 |

6. Seasonal Fluctuations.-In order to show the seasonal fuctuations in wholesale prices, index-numbers have been computed for each ;quarter of the year 1925. These are given in the following table, first, computed. with the year 1911 as base, and secondly, with the average prices for the year 1925 as base. Corresponding figures for purchasing.power of money' (retail prices of food, groceries and cost of house rent) have been included for comparative purposes.

Malbourne Wholesale and Retail Pricas-Quartarly Inder-Numbers, 1925.

| Partioulare. | Jan. March. | $\begin{aligned} & \text { April } \\ & \text { Jund } \\ & \text { Jund } \end{aligned}$ | $\begin{aligned} & \text { July } \\ & \text { to } \\ & \text { Sept. } \end{aligned}$ | $\begin{gathered} \text { oot. } \\ \text { to } \\ \text { Doo. } \end{gathered}$ | Whole Xear. |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Wholegale Price Index-Numbers with 1911 as base Whalesale Price" Index-Numbers "with average for 1925 as base $(=1,000)$ <br> Rotall Price (Food, Groceries, and c̈ost of House Ren $\ddot{\text { t. }}$ ) |  |  |  |  |  |
|  | 1,848 | 1,826 | 1,847 | 1,866 | 1,844 |
|  | 1,002 | 000 | 1,002 | 1,007 | 1,000 |
|  | 978 | 998 | 1,01? | 1,007 | 1,000 |

The results show a greater variation in retail than in wholesale prices. Wholesale prices were lowest in the second quarter and highest in the fourth quarter, while retail prices were lowest.in the first quarter and highest in the third quarter,
7. Prices, 1924 and 1925.-In Section 1, Appendix, details are given of the average prices of the particular brands of commodities used in computing the index-numbers in the years 1924 and 1925. Corresponding information for previous years as far back as 1871 was given in the Appendixes to previous Reports.

## § 2. Retail Prices-Food, Groceries, and Rent.

l. General-In normal circumstances changes in the cost of living due to variations in prices and not to alteration in standard can best be measured by means of index-numbers of prices. A "composite unit," consisting of appropriate quantities of the commodities which enter into general consumption in Australia, and including housing accommodation, has, therefore, been adopted, and a comparison of the value of this composite unit at the prices ruling at any given date with the value determined by mean's of the prices ruling at some basic date furnishes the retail price indexnumber for the given date, and indicates the proportionate increase or deerease in the amount of money necessary to purchase such a composite unit. This method of computation is usually known as the "aggregate expenditure method." There are other methods of computing index-numbers, "but
probably none so satisfactorily combines simplicity of procedure with accuracy of result. Investigations concerning retail prices are made by this Bureau in respect of the following matters:-
(i.) Monthly variation in the cost of food and groceries in 30 towns.
(ii.) Quarterly variations in retail prices and house rent in 30 towns.
(iii.) Quarterly variations in retail prices of elothing and miscellaneous expenditure in 30 towns.
(iv.) Annual variations in retail prices and house rent in 200 towns.
(v.) Intermittent Householders' Budget Inquiries.

In earlier reports the results of comprehensive investigations concerning prices and prices-indexes for past years were published, and an account. was given of the methods used in the collection of data and the computation of results. A discussion of the theory upon which the calculation of thit index-numbers is based was furnished in Appendixes to Report No. 1, issuerl in December, 1912. In Appendix 1, to Report No. 9, an endeavour was made to set forth the essentials of the problem and of its solution.

For further particulars concerning the "aggregate expenditure nethod" of index-numbers, reference may be made to Report No. 6, pages 19 and 20, and to Reprort No. 12, pages 22 and 28.

2 Cost of Commodities, Standard of Living, and Expenditure on Living. - A change in the " cost of living" may be due to a change in the standard of living, or in the retail price level, or in both; the expenditure on living depends thus on three factors, viz.:--
(i.) The nature of the commodities consumed;
(ii.) The quantities of the commodities consumed; and
(iii.) The primes of these commodities.

A change in any one of these may produce a change in the expenditure on living. In order to obtain index-numbers that will sutisfactorily neasure variation in price level, it is necessary that the particular series of commodities selected, and the relative quantities of these, remain constant. This phase of the subject is dealt with more fully in Labour Report No. 1, Appendix VIII. ; in Labour ÎReport No. 5, pp. 17-18; in Labour Bulletin No. 9, pp. 27 to 46 ; in Labour Bulletin No. 14, pp. 127 to 130 ; and in Part Il. of Appendix I. of Labour Report No. 9.

Notwithstanding the explicit statement of the purpose and scope of these investigations given in the various Labour Reports, misunderstanding in regard thereto is still prevalent. Many persons, having noticed that a different regimen gives a very different aggregate cost, have thought that the computed jrice-indexes must vary considerably with change of regimen. In Labour Bulletin No. 14, pp. 127 to 130, it is shown, by calculations bayed on
widely different regimens, that the mode adopted of investigating retail price level is not vitiated by employing a fixed regimen. Where a standard of living, or living wage, has been fixed, the tables can be used as a basis to determine the variations in the cost of living until such time as the regimen used as a basis for estimation has ceased to be fairly representative of the usage of the community. Should a change be necessary, certain safeguards which have been indicated in Labour Report No. 1, Appendixes VIII. and [X., and further realt with in Appendix I. of Labour Report No. 9 must be applied.
3. The Composite Unit.-The 47 items making up the "composite unit" may be divided into four groups, viz., (i.) groceries and bread, (ii.) dairy produce, (iii.) meat, (iv.) housing. The cost of these items covers about 60 per cent. of the total expenditure of a normal family.

Special investigations bave been made with reference to variations in the cost of the items and services included in the balance of expenditure, and the results are given in $\S 3$ of this Chapter.

The index-numbers computed on the basis of food, groceries, and housing in the past can be accepted as a fair reflection of the variation in the whole ordinary household expenditure in normal times. The question of procedure in abnormal circumstances was referred to in Labour Report No. 6, pp. 20 to 22.

The constitution of the " composite unit " is shown hereunder.

Retall Prices.-Composite Unit,

:This'inquiry so far as the capital cities are concerned goes back to 1901, and all possible precautions have been taken to ensure accuracy.
4." Other Investigations.-(i.) General.-These are concerned with (1) Annual variations in the price index-numbers for 200 towns, (2) the cost of living according to householders' budget inquiries, (3) special inquiries as to the cost of food, groceries, and housing in various towns and localities, and (4) the investigation by the Royal Commission on the Basic Wage.
(ii.) Price-Indexes for 200 Towns.-An investigation as to variation in price-indexes for 100 Australian towns was carried out for the monthe of November, 1913, aid November, 1914. From 1915 to 1922 the number of towns from which returns were collected annually was increased from 100 to 150 , and from November, 1923, the number was further raised to 200 . The resulte of the investigations for November of each year from 1913 to 1922 were published in various issues of the Report. Prior to 1912 investigations were made concerning the price-indexes in the capital cities only, but for 1912 and subsequent years monthly inquiries have been extended to 30 towns. The general agreement of the various results shows that the index-numbers published for the capital cities only, for the years prior to 1912, and for the 30 towns for 1912 and subsequent years, fairly indicate the variations in the cost of food, groceries, and housing in each State and throughout Australia.
(iii.) Householders' Budgets.-'The first collection of these was made in 1910-11, and the results, which covered a period of twelve months, were published in December, 1911. A second was made during 1913 for the month of November only, and results were given in a-special report, entitled "Labour Report,' No. 4, Expenditure on Living in the Commonwealth, November, 1913." In September, 1917, the Government of Western Australia appointed a Royal Commission of Inquiry into the cost of the necessaries of life in that State. Under the authority of this Commission budgots were obtained from householders showing their weekly expenditure in detail. The Commonwealth Statistician undertook the necessary analysis of the returns, and the report, when completed, was forwarded to the Western Australian Government, at whose request it was published in Labour Report No. 9, pp. 63-71.
(iv.) Special Investigations.-During recent years, in connexion with Arbitration Court proceedings, the question has been raised of the cost of living in certain country towns and districts as compared with the cost in the towns usually covered by the investigations of the Bureau. In order to ascertain the necessary particulars, inquiries were made in over 100 towns and localities, and index-numbers were computed and submitted to the tribunals concerned.
(v.) Investigations by the Royal Commission on the Basic Wage.-In

- December, 1919, the Commonwealth Government appointed a Commission consisting of three representatives of Employers' Organizations, and threerepresentatives of the Federated Trade Unoons, with an independent Chair-man.- The terms of the Commission-are given hereinafter.

This Commission issued two reports-the first in November, 1920, and the second in April, 1921. These reports show that, according to the standard assumed by the Commission, the cost of living as at the lst November, 1920, for ., family, consisting of man, wife, and three children under fourteen years of age, was as follows :-

Royal Commission on Basic Wage-Cost of Living, 1st November, 1920.

| Particulars. | Melbourne. | sydney. | Brdsbane. | Attelarle. | Perth. | Hobart. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| - | \& s. $d$. | £ s. $d$. |  | $\mathrm{f}_{\text {f }} 8 . d$ | ¢ s.d. | £ s. ${ }_{\text {d }}$. |
| Rent | 106 | 120 | 0170 | 0196 | 0190 | 0190 |
| Food | $2{ }_{2}^{2} 66$ | 2969 | $2 \begin{array}{lll}2 & 3 & 1\end{array}$ | $\begin{array}{llll}2 & 7 & 2\end{array}$ | 24811 | 2811 |
| Clothing .. | 190 | 170 | 160 | $\begin{array}{lll}1 & 8 & 3\end{array}$ | 179 | $1{ }^{1} 92$ |
| Miscellancous . | 1010 | 114 | 101 | 1112 | $1 \begin{array}{lll}1 & 2 & 3\end{array}$ | 01910 |
| Total | 5166 | 5171 | 562 | 5161 | 51311 | 51611 |

The corresponding cost of the commodities and services included (which are fully set out in the first report) for the years 1914 to 1920 was as follows:-

Royal Commission on Basic Wage-Cost of Commodities, etc., 1914 to 1920.

| Years. | Helbaurne. | Sydney. | Brisbane | Adelaide. | Perth. | Hobart. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | \& s. ${ }_{\text {c }}$ d. | f s. $d$. | $\pm$ s.d. | f s. $d$. | £ 8. $d$. | I A. d, |
| 1914 | $\begin{array}{llll}3 & 7 & 9\end{array}$ | 31211 | $\begin{array}{lll}3 & 4 & 0\end{array}$ | 3112 | 3129 | 3 6 9 |
| 1915 | $\begin{array}{llll}3 & 16 & 9\end{array}$ | 416 | 3113 | 3190 | 317 | $\begin{array}{lll}3 & 15 & 1\end{array}$ |
| 1916.. | 3175 | $4{ }^{4} 46$ | 31310 | $\begin{array}{llll}3 & 19 & 7\end{array}$ | 4112 | 3156 |
| 1917.. | 422 | 498 | 3193 | 438 | 4482 | $4 \pm 10$ |
| 1918.. | 4810 | 4148 | 460 | 41011 | 432 | 488 |
| 1919. | 4185 | $5{ }_{5}^{5} 5$ | 41510 | 5 56 | 569 | 5004 |
| 1920.. | 5166 | 5171 | 562 | 5161 | 51311 | 51611 |

The results of investigations into the variation in the cost of living since I920 according to this standard are given in § 3 of this Chapter.
5. Retail Prices-Capital Cities, 1907 to 1925.-(i.) General.--Index numbers, computed separately for each group of commodities and services included in the investigation, as well as the woighted average for all groups together, are shown for the eapital city of each State in the next table. In this table the weighted aggregate expenditure for the whole of the capital cities in 1911 for each group or combination is taken as base ( $=1,000$ ), and the figures for the separate cities give the relative cost of the regimen. These index-numbers are comparable in all respects within the limits of a group or combination, since within such limits they show not only the variations from year to year in each city, but comparisons also as to the relative cost in the different cities for the same year or for different years:- 。

## Retail Price Index-Numbers-Capital Cities, 1807 to 1825.

The Index-numbers given In the senarate parts of the table cangot be compared walth each otice in order to show tire relative cost of (say) housing, and food and grocerles, siftco the weighted average cos: tor tho six citles taken togetherin 10 ti to each uroupor comblnation is made equal to t.000.

| Tows | 1107. | 1911. | 1ilt. | 1920. | $1 \$ 21$. | 1022. | 1023. | 1024. | 1025. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Ghoup I.-Grogertes. |  |  |  |  |  |  |  |  |  |
| Sydney | 904 | 1,018 | 1,112 | 2,130 | 1,976 | 1.837 | 1,838 | 1,710 | 1,804 |
| bielboirne | 817 | . 024 | 998 | 1,020 | 1,897 | 1,705 | 1,703 | 1,575 | 1,727 |
| [irtabane | 960 | 1,067 | 1,076 | 2,155 | 1,058 | 1,841 | 1.832 | 1,685 | 1,836 |
| Adelatue | 903 | 058 | 1,081 | 2.030 | 1,907 | 1.760 | 1,744 | 1,643 | 1,770 |
| Perth | 1,013 | 1,276 | 1,113 | 2,008 | 1,055 | 1,729 | 1,692 | 1,027 | 1,770 |
| Hobart | 888 | 1,008 | 1,070 | 1,995 | 1,927 | 1,758 | 1,704 | 1,683 | 1.786 |
| Weiphted A vernge (a) | 886 | 1,000 | 1,062 | 2,039 | 1,017 | 1,774 | 1,770 | 1,050 | 1,70\% |
| Groifp IL-D.Datry Produob, |  |  |  |  |  |  |  |  |  |
| Sydney | 932 | 971 | 1,110 | 1,057 | 1,828 | 1,674 | 1,831 | 1,000 | 1,413 |
| Talbourne | 907 | 959 | 1.075 | 1,929 | 1,840 | 1,695 | 1,745 | 1.604 | 1,683 |
| friebane | 837 | 983 | 005 | 1,816 | 1,004 | 1,569 | 1,670 | 1,558 | 1,540 |
| Adelaide | 928 | 1,108 | \$,104 | 1,887 | 1,723 | 1,578 | 1,684 | 1,623 | 1,622 |
| Perth | 1,200 | 1,241 | 1,244 | 1,954 | 1,051 | 1,730 | 1,804 | 1,720 | 1,089 |
| Holmart | 055 | 094 | 1,177 | 1,970 | 1,848 | 1,530 | 1,005 | 1,540 | 1,484 |
| Weightest A verage (d) | 955 | 1,000 | 1,108 | 1,028 | 1,815 | 1,027 | t,707 | 1,030 | 1,0000 |
| Group ill.-Meat. |  |  |  |  |  |  |  |  |  |
| Sydney | 904 | 959 | 1,280 | 2,388 | 1,898 | 1,498 | 1,788 | 1,846 | 1,835 |
| Nelboume | 1,067 | 929 | 1,270 | 2,414 | 1,072 | 1,501 | 2,020 | 1,058 | 1,059 |
| Briabane | 1,024 | 935 | 1,109 | 2,126 | 1,710 | 1,250 | 1,408 | 1,838 | 1,705 |
| Adelalde | 1,059 | 1,037 | 1,502 | 2607 | 2,097 | 1,815 | 2,100 | 2,222 | 2,193 |
| Perith | 1.511 | 1,577 | ],688 | 2,224 | 2,118 | 1,904 | 2,084 | 2,520 | 2,482 |
| Hobart | 1,279 | 1,221 | 1,403 | 2,045 | 2,382 | 2,128 | 2,345 | 2,403 | 2,285 |
| Werghterl A verage ( ${ }_{\text {a }}$ ) | 1,074 | 1,000 | 1,323 | 2,300 | 1.994 | 1,587 | 1,904 | 1,982 | 1,901 |

Groups I., Hi. and IIL. Combined,-Food and Gaooeriry.

| Sviney | . | 934 | 989 | 1,154 | 2,148 | 1,898 | 1,703 | 1,820 | 1,732 | 1,785 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| atelbourne |  | . 928 | 935 | 1,001 | 2,050 | 1,001 | 1,044 | 1,902 | 1.684 | 1,748 |
| Brabane | . | 947 | 1,018 | 1,078 | 2.052 | 1,812 | 1,408 | 1.693 | 1,6390 | 1,794 |
| Adelatde | . | 951 | 1.020 | 1,215 | 2.132 | 1,906 | 1.723 | 1,823 | 1,791 | 1,840 |
| Perth |  | 1,197 | 1,346 | 1,302 | 2,050 | 1,905 | 1,776 | 1,938 | 1.801 | 1.039 |
| Hobart: | . | 1,010 | 1,058 | 1,212 | 2,162 | 2,025 | 1,704 | 1,803 | 1,849 | 1,810 |
| Welgheed A verage ( $a$ ) | , | 055 | 1,000 | 1,144 | 2,101 | 1,002 | 1,084 | 1,805 | 1,732 | 1,786 |



| Sydney |  | $\cdots$ | 069 | 1,145 | 1,248 | 1,541 | 1,617 | 1,1080 | 1,730 | 1,831 | 1,870 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Melborrne | $\ldots$ | $\ldots$ | 744 | 931 | 1,027 | 1,272 | 1,940 | 1,448 | 1,534 | 1,574 | 1,604 |
| Briabane |  |  | 463 | 610 | 702 | 1,018 | 1,030 | 1,128 | 1,151 | 1,467 | 1,165 |
| Adelalde | $\ldots$ | $\cdots$ | 835 | 1,155 | 1,071 | 1,240 | 1,322 | 1,877 | 1,460 | 1,540 | 1,674 |
| Perth |  | $\ldots$ | 749 | 857 | 003 | 1,145 | 1,209 | 1,256 | 1,294 | 1,311 | 1,340 |
| Hobart |  | . | 661 | 730 | 847 | 1,420 | 1,441 | 1,259 | 1,503 | 1,592 | 1,649 |
| Weighted | age (a) | * | 813 | 1,000 | 1,082 | 1,3+4 | 1,410 | 1,486 | 1,553 | 1,615 | t, 047 |

Alf Groops Combined.-F00d, Grocghtes. and lousing.

| Sydrey |  | 948 | 1,048 | 1,188 | 1,920 | 1,793 | 1,094 | 1,700 | 1,709 | 1,817 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Melhourne | .. | 857 | 934 | 1,067 | 1,762 | 1,000 | 1,571 | 1,702 | 1,643 | 1,004 |
| Brisbane | . | 765 | 805 | 080 | 1,664 | 1,619 | 1,427 | 1,400 | 1,490 | 1,52] |
| Adelakde | . | 908 | 1,070 | 1,161 | 1,797 | 1,087 | 1,593 | 1,089 | 1,097 | 1,741 |
| ['erth | . | 1,029 | 1,162 | 1,175 | 1,710 | 1,700 | 1,581 | 1,627 | 1,679 | 1,714 |
| Hobart | ., | 870 | \%38 | 1,075 | 1,883 | 1,80\% | 1.681 | 1,728 | 1,753 | 1,750 |
| Weghted A verage (a) | $\ldots$ | 800 | 1,000 | 1,12t | 1,917 | 1,717 | 1,610 | 1,710 | 1,688 | 1,783 |

Vote-At to basis of index-numbers, ree remarites on pates 13 to its.
(a) For all cspital clties.
(ii.) Groceries (18 Comnodities).-The index-number for this group was higher in 1925 than in 1924 in all the capital cities. The increase for all cities in 1925 compared with 1924 amounts to 8.9 per cent. ; compared with 1911 there has been an increase of 79.7 per cont. The average cost in 1925 of the commodities included was highest in Sydney and lowest in Melbourne.
(iii.) Dairy Produce (7 Commodities).-The index-numbers Cor this group were lower for 1925 than for 1924 in all the capitals. The index-number for all the cities in 1925 was 1.8 per cent. lower than in 1924, and 60.0 per cent. bigher than in 1911. The average cost in 1925 of the commodities was highost in Perth and lowest in Holourt.
(iv.) Meat (21 Cuts, or Joints of Butcher's Meat).--The index-numbers for this group were lower in 1925 than in 1924 in all the capital cities except Melbourne. The index-number for all the cities in 1925 was 1.1 per cent lower than in 1934 ; and 96.1 per cent. bigher than in 1911. The average cost for 1925 of the commodities included was highest in Perth and lowest in Brisbane.
(v.) Fooll and Groceries (Groups I., II., and III. combined).-Whe indexnumbers for this group show the aggregate effect of rovements in prices of the commodities included, apart from variations in house rent. There was an increase in 1925 as compared with 1924 in all the cities except Hobart. Taking the weighted average for all the capitals, the prices of the 46 items of food and groceries specified on page 15 were 3.1 per cent. higher in 1925 than in 1924, and 78.5 per cent. higher than in 1911. The average cost of these items for 1925 was. highest in Pertl and lowest in Brisbane.
(vi.) Housing.-The cost of housing increased in all the capital cities during 1925. The weighted average increase for the six capitals in 1925 compared with 1924 was 2.0 per cent. The increase in cost in 1925 compared with 1911 for the six capitals considered as a whole was 64.7 per cent. In 1925 the cost of housing was greatest in Sydney and lowest in Brisbane.
(vii.) Food, Groceries, and Housing combined.-The weighted average index-numbers for the combined expenditure upon these items show an inorease of 2.7 per cent. in 1925 compared with 1924 , and an increase of 73.3 per cent. compared with 1911.

Compared with 1911, the base-year of the period; the weighted average price index-number showed an increase of 73.3 per cent. for 1925 . In 1907 and 1911, the index-number for Perth was higher than for any other capital city. For the year 1921 the index-number for Hobart was the highest, and for 1920 and 1922 to 1925 inclusive the index-number for Sydney was higher than for any other capital city.
6. Change of Basis for Rent Constituent.-From and after the first quarter of 1925, the basis employed in computing the variations in housing costs has been amended to accord with a resolution of the Conference of Statisticians of Australia and Now Zealand, held in Adelaide in August, 1924. The conclusion then reached was that "for purposes of computing price-levels in respect of rent, it is desirable that houses of four and five rooms only be taken into account."

Up to the present time the practice followed in computing the retail price index-number has beer to take into account the rentals of all houses ranging from those of three rooms and under to those of seven rooms and upwards. In respect to rent this practice is, to some extent, a departure from the principle adopted with regard to prices of food and groceries, i.e., that of taking the price of the predominant type of commodity, inasmuch as the rent of houses of other than the predominant type has been included. The Census of 1921 disclosed the fact that while houses having five rooms predominated in some towns, in otbers the houses of four rooms predominated. Houses of four rooms represented 24 per cent. of the total dwellings, while those of five rooms represented 29 per cent; the two types together representing 53 per cent. of the total. While the tables hitherto published which included rent of all houses will in future be replaced by those including rent of houses of four and five rooms, the preparation of index-numbers for food, groceries and rent of all houses in the 30 towns of the Commonwealth will be continued for the use of the Commonwealti Court of Conciliation and Arbitration and the parties interested in Awards and Variations made by that Court, and the results will be published in the Quarterly Summary of Statistics.
7. Retail Priess, Thirty Towns, 1921 to 1925.-The following tables give index-numbers represunting the variations in the cost of food and groceries ( 46 commodities), in 30 of the more important towns in Australia at yearly, quarterly, and monthly periods for the years specified. In addition, indexnumbers are given showing for the years specified the quarterly and yearly variations in house rents and in the combined cost of food, groceries, and housing. As explained on pp. 31 and 32 of Labour Report No. 6, these are now computed to the same base as the index-numbers relating to the sir ospital cities, which go back to the year 1901 .

Retail Price Index－Numbers 30 Towns， 1921 to 1925：Weighted Average of six Capital Cities in 1811 as Base（a）$(=1,000)$ ．

| K．E．W．INDEX－N EMEERS． |  |  |  |  |  | VICTORLA，－INDEX－NUKDERS． |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 盛 |  | $\begin{gathered} \text { 言 } \\ \text { 而 } \\ \text { 邑 } \\ \text { 总 } \\ \text { } \end{gathered}$ |  | 當 |  |  | 菑 | 品 | 60 g \％ 0 0 | 号 | 容0 |

Food and Groorares－40 Commoditirs．

| 1921 | 1，808 | 1，936 | 2，128 | 1，021 | 1，884 | 1，911 | 1，901 | 1，912 | 1，880 | 1，0，32 | 1，920 | 1，002 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1922 | 1，703 | 1，706 | 1，776 | 1，601 | 1，639 | 1，705 | 1，644 | 1，654 | 1，649 | 1，042 | 1，501 | 1，944 |
| 1923 | 1，820 | 1，838 | 1，909 | t，865 | 1，786 | 1，826 | 1，802 | 1，498 | 1，796 | 1，757 | 1，750 | 1，800 |
| 1924 | 1，732 | 1，749 | 1，954 | 1，767 | 1，647 | 1，739 | 1，684 | 1，704 | 1，729 | 1，673 | 1，723 | 1，687 |
| 1925 | 1，785 | \＄，801 | 2，105 | 1，785 | 1，720 | 1，794 | 1，748 | 1，763 | 1．778 | 1，730 | 1，721 | 1，749 |
| 1924 19t Qtr． | 1，782 | 1，819 | 2，017 | 1，819 | 1，705 | 1，791 | 1，728 | 1，753 | 1，758 | 1，705 | 1，762 | 1，720 |
| 2nd | 1，735 | 1，756 | 1，927 | 1，801 | 1，662 | 1，742 | 1，694 | 1，715 | 1，756 | 1，683 | 1，744 | 1.607 |
| 8 Td | 1，695 | 1，717 | 1，935 | 1，718 | 1，018 | 1，702 | 1，662 | 1，676 | 1，720 | 1，087 | 1，713 | ］，666 |
| 4th | 1，715 | 1，705 | 1，938 | 1，731 | 1，601 | 1.719 | 1，653 | 1，672 | 1，683 | 1，816 | 1，675 | 1，654 |
| 1925 1et Qtr． | 1， |  |  |  |  |  |  | 1，715 |  |  |  | 1，693 |
| 2nil | 1，761 | 1，785 | 2，131 | 1，749 | 1，705 | 1，772 | 1，745 | 1，749 | 1，772 | 1，720 | 1，099 | 1，745 |
| $3 \mathrm{r}, \mathrm{t}$ | 1，813 | 1，820 | 2，178 | 1，795 | 1，720 | 1，822 | 1，787 | 1，793 | 1，815 | 1，755 | 1，768 | 1，787 |
| 4th | 1，840 | 1，849 | 2，130 | 1，858 | 1，777 | 1，848 | 1，767 | 1，793 | 1，810 | 1，769 | 1，755 | 1，769 |
| $\frac{1025}{\substack{\text { Tanuary }}}$ | 1，720 |  |  |  |  | 1，728 |  | 1，701 |  |  |  |  |
| Pebruary | 1，721 | 1，745 | 1，083 | 1，742 | 1，670 | 1，729 | 1，688 | 1，716 | 1，719 | 1，668 | 1，660 | 1，689 |
| March | 1，741 | 1，767 | 1，000 | 1，750 | 1，692 | 1，740 | 1，712 | 1，727 | 1，739 | 1，670 | 1，068 | 1，712 |
| April | 1，738 | 1，774 | 2，116 | 1，720 | 1，801 | 1，750 | 1，723 | 1，729 | 1，756 | 1，714 | 1，680 | 1，723 |
| Mry | 1，762 | 1，791 | 2，126 | 1，754 | 1，710 | 1，773 | 1，741 | 1，752 | 1，760 | 1，730 | 1，700 | 1，742 |
| June | 1，784 | 1，791 | 2，152 | 1，773 | 1，712 | 1，793 | 1，771 | 1，766 | 1，792 | 1，734 | 1，716 | 1，769 |
| July | 1，790 | 1，811 | 2，180 | 1，782 | 1，711 | 1，809 | 1.793 | 1，786 | 1，804 | 1，752 | 1，760 | 1，792 |
| August | 1，816 | 1，820 | 2，177 | 1，799 | 1，723 | 1，824 | 1，780 | 1，795 | 1，824 | 1，755 | 1，768 | 1，481 |
| September | 1，825 | 1，829 | 2，177 | 1，802 | 1，725 | 1，8．33 | 1，787 | 1，798 | 1，819 | 1，759 | 1，776 | 1，787 |
| October | 1，840 | 1，846 | 2，193 | 1，850 | 1，753 | 1，854 | 1，779 | 1，503 | 1.898 | 1，778 | 1，780 | 1，781 |
| November | 1，819 | 1，850 | 2，113 | 1，845 | 1，771 | 1，820 | 1.788 | 1，811 | 1，817 | 1，782 | 1，767 | 1，700 |
| December | 1，854 | 1，852 | 2，085 | 1，878 | 1，808 | 1，860 | 1，744 | 1，767 | 1，786 | 1，747 | 1，717 | 1，737 |

Hodsing－（beiahtidd AyERAGE 4 and 5 ROoms）．

| 1021 |  | 1，617 | 1，447 | 914 | 1，440 | 976 | 1，503 | 1，340 | 78 I | 843 | 1，068 | 1，104 | 1，254 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1922 |  | 1，680 | 1，449 | 914 | 1，448 | 1，015 | 1，617 | 1，448 | 819 | 942 | 1，158 | 1，140 | 1，355 |
| 1923 |  | 1，739 | 1，437 | B88 | 1，538 | 1，044 | 1，683 | 1.534 | 912 | 905 | 1，263 | 1，204 | 1，476 |
| 1924 |  | 1，831 | 1，520 | 930 | 1，755 | 1，245 | 1，776 | 1，574 | 960 | 986 | 1，267 | 1，297 | 1，613 |
| 1925 | $\cdots$ | 1，870 | 1，654 | 1，001 | 1，687 | 1，373 | 1，823 | 1，604 | 1，034 | 1，089 | 1，322 | 1，222 | 1，548 |
| 1024 | 1st Qtr． | 1，790 | 1，514 | 902 | 1，713 | 1，044 | 1，788 | 1，564 | 049 | 094 | 1，265 | 1，224 | 1，505 |
|  | 2 ral | 1，837 | 1，514 | 020 | 1，749 | 1，332 | 1，781 | 1，575 | 977 | 000 | 1，265 | 1，227 | 1，515 |
|  | 3 cd | 1，842 | 1，527 | 044 | 1，788 | 1，322 | 1，787 | 1，572 | 963 | 987 | 1，273 | 1，227 | 1，512 |
|  | 4th | 1，855 | 1，527 | 058 | 1，770 | 1，322 | 1，783 | 1.585 | 051 | 975 | 1，265 | 1，227 | 1，522 |
| 1925 | lst Qtr． | 1，869 | 1，653 | 091 | 1，605 | 1，352 | 1，823 | 1，594 | 1，040 | 1，057 | 1，268 | 1，227 | 1，537 |
|  | 2nd | 1，860 | 1，001 | 998 | 1，704 | 1，359 | 1，818 | 1，600 | 1，040 | 1，042 | 1，277 | 1，220 | 1，542 |
|  | 3nd | 1，852 | 1，680 | 1，015 | 1，0775 | 1，384 | 1，810 | 1，617 | 1，029 | 1，151 | 1，342 | 1，220 | 1，563 |
|  | 4th | 1，802 | 1，080 | 1，000 | 1，675 | 1，395 | 1，844 | 1，002 | 1，027 | 1，106 | 1，403 | 1，220 | 1，550 |

Food．Grogrrigs，and Hodsing．

| 1021 |  | 1，793 | 1，752 | 1，672 | 1，740 | 1，543 | 1，780 | 1，690 | 1，487 | 1，480 | 1，607 | 1，614 | 1，659 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1922 |  | 1，694 | 1，609 | 1，452 | 1，600 | 1，401 | 1，672 | 1，571 | 1，340 | 1，384 | 1，400 | 1，422 | 1，586 |
| 1929 |  | 1，790 | 1，687 | 1，780 | 1，736 | 1，495 | 1，773 | 1，702 | 1，462 | 1，405 | 1，571 | 1，645 | 1，678 |
| 1924 |  | 1，769 | 1，663 | 1，570 | 1．763 | 1，000 | 1，758 | 1，043 | 1，425 | 1，450 | 1，620 | 1，587 | 1，822 |
| 1028 |  | 1，817 | 1，74 | 1，691 | 1，749 | 1，590 | 1，805 | 1，694 | 1，489 | 1，520 | 1，677 | 1，533 | 1，673 |
| 1924 | 19t Qtr． | 1，785 | 1，704 | 1，598 | 1，779 | 1，457 | 1，771 | 1，067 | 1，451 | 1，471 | 1，540 | 1，560 | 1，645 |
|  | 2nd | 1，773 | 1，665 | 1，549 | 1，782 | 1，538 | 1，757 | 1，644 | 1，438 | 1，468 | 1，526 | 1，550 | 1，629 |
|  | 3rd＊＊ | 1，750 | 1，650 | 1，583 | 1，744 | 1，507 | 1，734 | 1，628 | 1，409 | 1，445 | 1，532 | 1，580 | 1，608 |
|  | uth＂ | 1，767 | 1，688 | 1，568 | 1，746 | 1，497 | 1，749 | 1，627 | 1，402 | 1，417 | 1，485 | 1，507 | 1，604 |
| 1026 | 1at Qtr． | 1，781 | 1，713 | 1，609 | 1，723 | 1，556 | 1，763 | 1，850 | 1，461 | 1，470 | 1，618 | 1，498 | t，635 |
|  | 2nd | 1，802 | 1，716 | 1，706 | 1.732 | 1.576 | 1，789 | 1，60t | 1，489 | 1，493 | 1，557 | 1，519 | 1，669 |
|  | 3 rd | 1，828 | 1，768 | 1，741 | 1，750 | 1，594 | 1，817 | 1，723 | 1，506 | 1，566 | 1，600 | 1，562 | 1，702 |
|  | 4th | 1，859 | 1，786 | 1，706 | 1，789 | 1，634 | 1，846 | 1，706 | 1，506 | 1，546 | 1，632 | 1.554 | 1，687 |

（d）See explan！̣tory note at head of page 18.

| Retail Pric | Index－Numbers 30 Towns 1921 to 1925：Weighted Average of Eir Capital Cities in 1911 as Base（a）$(=1,000) \ldots$ romfinurd． |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | OUEENSLAND－Index－Nundars． |  |  |  |  |  | Souta a ditraila－［nder－N umbers． |  |  |  |  |  |
|  | 等 |  | 产 |  |  |  | dis W W \＃ |  | $\begin{aligned} & \text { 完 } \\ & \text { 它 } \\ & \text { 宫 } \end{aligned}$ |  | （ |  |
| Foon and（inoomitas（46 Commobrtiss）． |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 1，812 | 1，714 | 1，834 | 1.001 | 1.817 | 1，812 | 1，908 |  |  |  |  |  |
| 1082 | 1，608 | 1，599 | 1，616 | 1，608 | 1,679 | 1，600 | 1，729 | 1，710 | 1，725 | 1，626 | 1，762 | 1，000 |
| 1923 | 1，049 | 1，1774 | 1，738 | 1，805 | 1，677 | 1，700 | L， $\mathbf{4} \mathbf{2 3}$ | 1，777 | 1，80］ | 1，754 | 1，801 | 1，819 |
| ＇ 1984 | 1，690 | 1，600 | 1，079 | 1，841 | 1，625 | 1，683 | 1，791 | 1，756 | 1，520 | 1，692 | 1，817 | 1，700 |
| 1925 | 1，734 | 1，674 | 1，74\％ | 1，875 | t，668 | 1，734 | 1，840 | 1，854 | 1，934 | 1，753 | 1，939 | 1，844 |
| 1024 19t．Qtr． | 1，757 | 1，089 | 1，735 | 1，011 | 1.713 | 1，754 | 1，845 | 1，775 | 1，820 | 1，007 | 1，768 | 1，898 |
| 2nd $\#$ | 1，680 | 1，589 | 1，678 | 1，825 | 1，604 | 1，876 | 1.826 | 1，781 | 1．822 | 1，843 | 1，793 | 1822 |
| 310 | 1.872 | 1， 578 | 1.654 | 1，822 | 1.595 | 1，R87 | 1，760 | 1，739 | 1，529 | 1，700 | 1，944 | －，761 |
| 4th | 1，481 | 1，546 | 1，646 | 1，805 | 1，581 | 1，646 | 1，734 | 1，732 | 1，812 | 1，083 | 1，872 | 1，797 |
| 1025 1st Qtr． | 1，603 | 1550 | 1，076 | t，dE 1 | 1.671 | 1，662 | 1，8t3 | 1，708 | t． 870 | L， 714 | t．82： | t，＋18 8 |
| 2nt ．， | 1798 | 1,643 | 1，721 | 1，831 | 1，647 | 1，721 | 1，888 | 1.862 | 1，943 | 1，771 | 1.079 | 1，888 |
| 31 d | 1，744 | 1，714 | 1，784 | 1，888 | 1，604 | 1，749 | 1，838 | 1，870 | 1，092 | 1．756 | 1，914 | 1，844 |
| 41 h | 1，799 | 1，788 | 1.817 | 1，056 | $\underline{1,758}$ | 1．804 | 1，821 | 1，886 | 1，042 | 1，771 | t， P 17 | 1．829 |
| 1005． 10048080 |  |  |  |  |  |  |  |  |  |  |  |  |
| Jamary | 1，044 | 1，528 | 1，652 | 1，807 | 1,556 | 1，689 | 1，781 | 1，701 | 1.889 | 1，003 | 1，003 | 1，783 |
| Fobritary Majch | 1,668 $1,66 t$ | 1，543 | 1，677 | 1，845 | 1，565 | 1，462 | 1，893 | 1，804 | 1.867 | 1，728 | 1，919 | 1．883 |
| April | 1，716 | 1，813 | 1，710 | 1，820 | 1．228 | 1.704 | 1．87d | 1，835 | － 980 | 1.750 | 1，010 | 1.674 |
| May | 1．728 | 1，657 | 1，714 | 1，880 | 1645 | 1．723 | 1，098 | 1.375 | 1，945 | 1，776 | 1，982 | 1，498 |
| June | 1，732 | 1.859 | 1，738 | 1，844 | 1，668 | 1，730 | 1，895 | 1，875 | 1，062 | 1，780 | 1，087 | 1，805 |
| .$_{\text {atily }}$ | 1，737 | 1，078 | 1，787 | 1，874 | 1，680 | 1，738 | 1，859 | 1，882 | 1，003 | 1，767 | 1，985 | 1，809 |
| Alguat | 1，741 | 1，783 | 1.781 | 1，888 | 1， 10 g | 1.748 | 1，8；32 | 1．873 | 1966 | 1，764 | 1，080 | 1，838 |
| September | 1，754 | 1，731 | 1，804 | 1，000 | 1，704 | 1，760 | 1，826 | 1，857 | 1，959 | 1，748 | 1，005 | 1，891 |
| October | 1，802 | 1，810 | 1，8t2 | 1．932 | 1，766 | 1，807 | 1，830 | 1，867 | 1，955 | 1，761 | 1，922 | 1，836 |
| November | 1，814 | 1，785 | 1.885 | 1，063 | 1，765 | 1，817 | 1，811 | 1，688 | 1，980 | 1，776 | 1，894 | 1，k20 |
| Deeetmber ．． | 1，781 | 1，768 | 1，814 | 1，971 | 1，747 | 1，780 | 1，822 | 1，900 | 1，972 | 1，785 | 1，985 | 1，892 |


（a）Sob note at head of pace 18.

Retail Price Index-Numbers 30 Towns 1921 to 1025: Weighted Aserage of Six Capital Clties in 1911 as Base (b) $(\rightarrow 1,000) \rightarrow$ continued.

|  | Western a distralia-Index-2utabbrs. |  |  |  |  |  | Tasmayta-[ndex-Numbres |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\stackrel{\vdots}{\stackrel{ \pm}{\mathbf{4}}}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Food and Grocriles (46 Commoditims). |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1921 | 1,995 | 2,207 |  | 2,029 | 2,017 | 2,042 | 2,025 | 1,934 |  |  | 2,058 | 2,000 | 2 |  |
| 1822 | 1,776 | 1,995 |  | 1,856 | 1,840 | 1,828 | 1,704 | 1,700 |  |  | 1,842 | 1,774 | t,684 | 1,681 |
| 1923 | 1,828 | 2,101 | 1,962 | 1,840 | 1,318 | 1,381 | 1,863 | 1,820 | 1,883 | 1,8.85 |  |  |  | 1,801 |
| 1924 1925 | [i,991 | 2,122 2,144 | 1.916 $2,0.3$ | 1,900 | 1,985 $2,0.7$ | 1,965 | 1,849 | 1,893 | 1,879 | 1,864 | 2,016 | 1,853 | 1,732 | 1,73 1,70 |
| 1924 18t. Or. | 1,87 | 2,120 | 1,94 | 1,860 | 1,030 | 1,001 | 1,895 | 1,80 | 1,040 | 1,862 | 2.031 | 1,841 |  |  |
| 2 dat | 1,892 | 2,139 | 1,993 | 1,969 | 1,942 | 1,722 | 1,861 | 1.854 | 1,917 | 1,872 | 2,001 | 1,807 | 1,740 | 1,741 |
| 3 3td | 1,002 | 2,115 | 1,908 | 1,088 | 2,042 | 1, 1,330 | 1,843 | 1,830 | 1,885 | 1,891 | 2,019 | 1,850 | 1,706 | 1,71. |
| 4 th | 1,805 | 2,115 | 1,821 | 1,043 | 2,027 | 1,920 | 1,798 | 1,706 | 1,772 | 1,820 | 2,015 | 1,806 | 1,705 | 170 |
| 3925 | 1,065 | 2,150 | 1,950 | 2,004 | 2,043 | 1,987. | 1,786 | 1,734 | 1,744 | 1,833 | 1,996 | 1,791 | 1,737 |  |
|  | 2,019 | 2,157 | 2,079 | 2,084 | 2,088 | 2,038 | 1,790 | 1,783 | 1,785 | 1,834 | 2,038 | 1,799 | 1,784 | 88 |
|  | 1,928 | 2,114 | 1,085 | 1,945 | 2,093 | 1,868 | 1,821 <br> 1,845 | 1,823 | 1,889 | 1,863 | 2,078 | 1,850 | 1,810 | 1,811 |
| 1025. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Famuary | 1,971 | 2,129 | 1,804 | 1,019 | 2,005 | 1,995 | 1,784 | 1,772 | 1,740 | 1,832 | 1,993 | 1,788 | 1,734 | 1,78 |
| March | 1,088 | 2,168 | 2,030 | 2,019 | 2,009 | 2,010 | 1,780 | 1,762 | 1,757 | 1,838 | 2,006 | 1,785 | 1,755 | 1,75 |
| April | 2,010 | 2,139 | 2,070 | 2,070 | 2,079 | 2,027 | 1,778 | 1,776 | 1,773 | 1,812 | 2,025 | 1,788 | 1,785 | 1771 |
| May | 2,080 | ${ }_{2}^{2,173}$ | ${ }^{2.078}$ | 2,033 | 2.083 | 2.047 | 3,788 | 17780 | 1.784 | 1.848 | 2,042 | 1,801 | 1798 | 1,79] |
| Juny | 1,060 | 2,169 | 2,039 | 1,090 | 2,106 | 1,987 | 1,804 | 1,785 | 1,898 | 1,854 | 2,051 | 1,811 | 1,809 | 1,81 |
| Aukust | 1,061 | 2,139 | 2,047 | 2,001 | 2,094 | 1,985 | 1,813 | 1,800 | 1,855 | 1,889 | 2,079 | 1,824 | 1,808 | 1,81 |
| sopiember | 1,000 | 2,138 | 2,081 | 2,012 | ${ }^{2}, 083$ | 1,934 | 1.846 | 1,817 | 1,884 | 1,870 | 2,084 | 1,949 | 1,812 | 1,81 |
| October | 1,868 | 2,157 | 2, | 1,925 | 1,091 | 1,848 | 1,889 | 1,838 | 1,897 1,885 | 1,870 1,804 1 | 2,066 | 1,835 | 1,820 1,807 | 1,82 1,811 |
| December | 1,809 | 2,087 | 1,048 | 1,911 | 1,950 | 1,840 | 1,85] | 1,824 | 1.908 | 1,85j | 2,187 | 1, 1,54 | 1,802 | 1,811 |

HOUSING (WagGted AVBRAGB 4 AND 5 ROOMS).

| L.221 |  | 1,209 | 941 |  | 1,047 | 1,272 | 1,141 | 1,441 | 1,098 |  |  | 810 | 1,203 | 1,410 | 1,32 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1022 | . | 1,256 | 044 |  | 1,114 | 1,251 | 1,180 | 1.359 | 1,175 |  |  | 810 | 1,180 | 1,486 | 1,89: |
| 1023 |  | 1,294 | 943 | 1,121 | 1,164 | 1,249 | 1,252 | 1,503 | 1,047 | 1,239 | 1,286 | 810 | 1384 | 1,553 | 1491 |
| 1024 |  | 1,311 | 919 | 1,990 | 1,158 | 1,349 | 1,208 | 1,502 | 1,272 | 1,900 | 1,277 | 810 | 1,449 | 1,615 | 1,65 |
| 5825 |  | 1,340 | 898 | 1,405 | 1,167 | 1,388 | 1,293 | 1,649 | 1,319 | 1,339 | 1,247 | 810 | 1,495 | 1,047 | 1,689 |
| 1094 | Let Qtr. | 1,301 | 926 | 1,293 | 1,128 | 1,352 | 1,259 | 1,567 | 1,269 | 1,279 | 1,242 | 810 | 1,430 | 1,585 | 1,52 |
|  | 2nd | 1,307 | 902 | 1,292 | 1,167 | 1,361 | 1,262 | 1,551 | 1,274 | 1,291 | 1,294 | 810 | 1,425 | 1,619 | 1,55. |
|  | 3 Td | 1,302 | 013 | 1,307 | 1,167 | 1,351 | 1,261 | 1,572 | 1,274 | 1,316 | 1,296 | 810 | 1,480 | 1,618 | 1,65 |
|  | 4th | 1,335 | 035 | 1,307 | 1,167 | 1,335 | 1,290 | 1,678 | 1,274 | 1,916 | 1,277 | 810 | 1,500 | 1,683 | 1,661 |
| 1925 | 1at Qtr. | 1,885 | 915 | 1,394 | 1,107 | 1,344 | 1,289 | 1,746 | 1,335 | 1,311 | 1,296 | 810 | 1,550 | 1,044 | 1,686 |
|  | 2nd ", | 1,395 | 900 | ],411 | 1,167 | 1,413 | 1,280 | 1,717 | 1,321 | 1,811 | 1,304 | 810 | 1,589 | 1,647 | 1,587 |
|  | Brd ", | 1,350 | 894 | 1,408 | 1,187 | 1,413 | 1,301 | 1,677 | t.310 | 1,368 | 1,208 | 810 | 1,448 | 1,644 | 1,58! |
|  | 4th ${ }^{\text {\% }}$ | 1,330 | 881 | 1,408 | 1,167 | 1,491 | 1,291 | 1,556 | 1,310 | 1368 | 1,181 | 810 | 1.435 | 1,753 | 1,59i |

Food, Groompiss, and Housing.

| 1921 |  | 1,700 | 1,782 |  | 1,660 | 1,737 | 1,704 | 1,804 | 1,620 |  |  | 3.589 | 1,701 | ${ }^{1,717}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| t922 |  | 1,581 | 1,800 |  | 1,577 | 1,619 | 1,685 | 1,631 | 1,509 |  |  | 1,454 | 1,551 | 1,810 | 1,5 |
| 1923 |  | 1,627 | 1,606 | 1,64 6 | 1,582 | 1,705 | 1,632 | 1,728 | 1,605 | 1,652 | 1,619 | 1,524 | I, 678 | 1,710 | 1,6 |
| 1024 |  | 1,673 | 1,670 | 1,696 | 1,646 | 1,743 | 1,074 | 1,753 | 1,625 | 1,66 | 1,643 | 1,564 | 1,701 | 1,68 | 1,6 |
| 1925 |  | 1,714 | 1.676 | 1,785 | 1,093 | 1,809 | 1,713 | 1,750 | 1,616 | 1,640 | 1,623 | 1,582 | 1,698 | 1;733 |  |
| 1024 | 1st Qtr. | 1,068 | 1, | 1,639 | 1, | 1,7 | 1,66 | 1,772 | 1,0 | 1,0 | 1,02 | 1,573 | 1,718 |  |  |
|  | 2nd ${ }^{\text {\% }}$ | 1,172 | 1,674 | 1.730 | 1,608 | 1,720 | 1,674 | 1,744 | 1,630 | 1,k8 | 1,005 | 1,654 | 1701 |  |  |
|  | 3 rd | 1,677 | 1,604 | 1,705 | 1,080 | 1,782 | 1,079 | 1,741 | 1,621 | 1,672 | 1,668 | 1,565 | 1,695 | 1,074 | 1,66 |
|  | 4th | 1,485 | 1,672 | 1,651 | 1,652 | 1,771 | 1,084 | 1,763 | 1,600 | 1,601 | 1,022 | 1,563 | 1,691 | 1,670 |  |
| 1025 | lat Qtr |  |  |  |  |  |  | 1,771 |  |  |  |  |  |  |  |
|  | 2nt - | 1.762 | 1,835 | 1.828 | 1,740 | 1,885 | 1.757 | 1,763 | 1,610 | 1,607 | 1,635 | 1,577 | 1,701 | 1,733 | 1,71: |
|  | 3 rd | 1,719 | 1,878 | 1,802 | 1,188 | 1,889 | 1,718 | 1,729 | 1,616 | 1,674 | 1,618 | 1,598 | 1,685 | 1,747 | 1,731 |
|  | 4th | 645 | 1,651 | 1,768 | 1,653 | 1,784 | 1,061 | 1,737 | 1,680 | 1,697 | 1,607 | 1,002 | 1,694 | 1,751 | 1,79: |

(a) The 'low's of Midlant Iunation (W, A.), Zechan (Tas.), aut Meaconsfield (Tae.), were replaced Is 1928 by Northam ( 7. A. $^{\text {.), Burnile (Tas.), and Dewonport (Tas.). }}$ (b) See note at head of paze 18.

In so far as they relate to the capital cities the index－numbers in these tables are comparable in every respect with those given on page 18 for the respective groups，and where they relate to the same period are identical in both tables．

The index－numbers in the separate parts of the table cannot be directly compared with one another in order to show the relative cost of（say）housing and food and groceries，since the weighted average cost in 1911 is in each case made：equal to 1,000 ．

The last columns in each of the tables above refer to the weighted average for the 30 towns．The method of computing these weighted average index－ numbers is explained in Report No．1，page 35．The population weights used in the computations for 1923 and subsequent years were as follows ：－

Popalation Weights Used for Different Towns．

| N．S．W． |  | Vic． |  | Qtand． |  | S．A． |  | W．A． |  | Tme． |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Town． | 呂 | Town． |  | Town． | 家 | Town． | 㤟 | Town． | 宮 | Town． | 恶 |
| Sydney | 890 | Melbourne | 768 | Rrisbane | 210 | Adetatide | 255 | Perth，etc． |  | Hobart | 52 |
| Newcastle | 84 | Ballarat ．． |  | T＂womba |  | Kadina．etc | 18 | Kalc＇lie，etc | 10 | taunceston | 24 |
| Broken Hill | 26 | Bendigo ．．． |  | Rockham＇n |  | Pt．Pirle |  | Northam |  | Rurnle ．－ | 3 |
| Graubirn |  | Gechong ：i |  | Chits Twrs． |  | Mt Gamb＇r |  | Bunbury |  | Devonport | 5 |
| Bathurst |  | W＇nambo＇ | 8 | Warwick |  | Peterbor＇gh |  | Geraldton |  | Queenst＇wn | 3 |

The weights used are based on the 1921 Census populations，and repre－ sent the actual populations at that date to the nearest 1,000 ．

## 8．Relative Retail Prices， 30 Towns，Food and Groceries and Housing．－

 （i．）General．－The figures in the next table represent the relative index－ numbers for the years 1923 to 1925 for the 30 towns in respect of which particulars are regularly collected，comparing expenditure on food and groceries and housing separately with the total expenditure on food， groceries，and housing．These index－numbers are comparable in all respects． For each year the first column gives the relative expenditure on groceries and food；the second，the relative expenditure on housing；while the remaining column relates to food and groceries combined with housing．Inder-Numbers, 30 Towns, showing Relative Expenditure on Food and Groceries and on Housing ( 4 and 5 rooms) saparztely, and on these Items combined. Basis of Table sa Weighted Avarige Expeniture on Food, Groceries, and Honsing (4 and 5 rooms) in the Six Capital Cities in $1911=1,000$.

-
Expenditure in each town for food, groceries, and housing was multiplied sy a number representing the population of the town, and a weighted result for all towns was thus computed. The weights used are given on page 24. The relative expenditure in each town for (a) food and groceries, (b) housing, and (c) food, groceries, and housing combined, is shown, the base being the
woighted average expenditure in the six capital cities for $1911=1,000$. Therefore, in each horizontal line for each year the sum of the index-number for food and groceries and that for rent is equal to the index-number for food, groceries, and housing combined. The items in the table are comparable in ald respects, and in addition show the proportionate cost of food and groceries and of housing. For example, taking the last live but one in the table for the year 1925, the weighted average expenditure for all the towns on food, groceries, and housing being $£ 1,715$, the expenditure on food and groceries alone is $£ 1,118$ ( 1 st column), and the average rental $£ 597$; the sum of the two latter amounts being $£ 1,715$. In addition to showing the relative cost of food and groceries and house rent (for different classes of loouses) in each town individually, the table also furnishes comparisons as to the relative cost of these items as between the several towns. Thus, taking foorl and groceries only for 1925, commodities which would cost $\mathfrak{E 1 , 1 1 5}$ in Sydnoy can be purchased for $£ 1,095$ in Melbourne, or $£ 1,149$ in Adelaide. Again, taking the combined expenditure on food, groceries, and house ront, an expenditure of $£ 1,694$ in Melbourne is equivalent to $£ 1,817$ in Sydney, $£ 1,741$ in Adelaide, $£ 1,676$ in Kalgoorlie, or $\mathfrak{f 1}, 809$ in Geraldton.

The index-mumbers are reversible, and may be used for comparisons between any of the towns included. Thus, if the average weckly rental of four and five-roomed houses in Melbourne is 21s. 7d. and the average rental of similar houses in Bendigo is required, the rental in Melbourne must be ruultiplied by the index-number for lousing in Bendigo and divided by the index-number for Melbourne; 21s. $7 \mathrm{~d} . \times \frac{409}{642}=14 \mathrm{~s} .8 \mathrm{~d}$.
(ii.) Food and Groceries.--The weighted average of the five towns was below the weighted averago for all towns for 1925 in Victoria and Queensland, and above it in the other States.
(iii.) Housung.-As regards housing accommodation, Sydney, Neweastle, Melbourne, and Hobart are the most expensive, while Queenstown and Mt. Gambier are the cheapest towns.
(iv.) Food and Groceries and Housing combined.-The average cost of food, groceries, and housing in 1925 was greatest in Sydney, followed by Geraldton and Northam, and was least in Mt. Gambier and Warwick.
9. Retail Price Index-Numbers in Terms of Currency.-In the next table the average cost for the six capital cities in the year 1911 has been taken as base $=20$ s. The figures measure the variations in the cost of the regimen referred to on page 15 from year to year in cach city separately (in the vertical lines), and the relative cost in the aeveral cities in each year (in the horizontal lives). Thus, 20s. 7d. in Sydncy in 1911 was equivalent to 18 s 4 d . in Brisbanc, or 19s. 1d. in Hobart, while 33s. 11d. in Melbourne for the last quarter of 1924 was equivalent to 15 s . 5 d . in Brisbane in 1901, or 22s. Gd. in Perth in 1911.

Retail Prices-Amounts necessary or the Average in each Year specifed from 1907 to 1925 to purchase in each Capital City what would have cost on the average $£ 1$ in 1911 in the Capitals regarded as a whole.

|  | Ye.rt. | syducy. | Melb'ne. | Brigbane. | Adelutte. ${ }^{\text {: }}$ | I'erth | Herosert. | Wrighted A verage of 6 Captal Cuties. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Food and Grogeries (46 Comathities). |  |  |  |  |  |  |  |  |
|  |  | 8. d. | s. 8. | 6. d. | s. $d$, | s. $d$. | s. 1 . | *. ${ }^{\text {d }}$. |
| 1907 |  | 189 | 186 | 1811 | 10 | 2311 | 2012 | 19 1 |
| 1911 | . | 19 | 188 | $20 \quad 4$ | $20 \quad 5$ | 2611 | 21. | 20 Ca |
| 1920 |  | 43 \% | 411 | 41.1 | 428 | 410 | 433 | 420 |
| 102) |  | 380 | 380 | 36 | 381 | 400 | 406 | 380 |
| 1922 | . | 341 | 3211 | 32 \% | 346 | 356 | 3511 | 338 |
| 1923 | . | 365 | 301 | 3310 | 306 | 367 | 373 | 3 l |
| 1924 |  | $3+8$ | 338 | 3310 | 3510 | 3710 | 370 | 348 |
| 1925 |  | 358 | 350 | 348 | 3610 | 389 | 362 | 358 |
| 1925 | lot Qtr. | 348 | 3310 | 334 | 363 | 39 4 | 357 | 349 |
| " | 2nd Qtr. | 35 3 | 3411 | 346 | 379 | 405 | 3510 | 358 |
|  | 3nd Qtr. | 363 | 350 | 3411 | 369 | 3810 | 365 | 362 |
| " | 4th Qts. | 3610 | 354 | 360 | 365 | 367 | 3611 | 362 |

Hodse Rent (Weightrd Average 4 anir 5 Rooms Combined).

| 1907 |  | 19 J | 1411 | 9 | 3 | J6 8 | $\begin{array}{ll}15 & 0\end{array}$ | 13 3 | 16 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1911 |  | 2211 | 187 | 12 | 2 | 231 | 172 | 149 |  |  |
| 1920 |  | 3010 | $25 \quad 5$ | 20 | 4 | 2410 | 2211 | 28 5 |  | 11 |
| 1921 |  | $32 \quad 4$ | 2610 | 20 | 7 | 26 5 | 242 | 2810 | 28 | 2 |
| [922 |  | 337 | 2810 | 22 | 7 | 278 | 951 | 272 | 28 | 9 |
| 1923 | $\cdots$ | $34 \leqslant$ | 308 | 23 | 0 | $\therefore 0$ | 2511 | 301 | 31 | 1 |
| 1924 |  | 315 | 316 | 23 | 2 | 3010 | 263 | 3110 | 32 | 4 |
| 1925 | . | 375 | 321 | 23 | 4 | 316 | 2610 | 330 | 32 |  |
| 1925 | Ist © t tr. | 375 | 3111 | 23 | 3 | 314 | 268 | 3411 | 32 | 11 |
| " | 2nd Qtr. | 375 | 320 | 23 | 3 | 317 | 268 | 344 | 32 | 11 |
|  | 3rd Qir. | $37 \quad 0$ | 324 | 23 | 4 | $\begin{array}{ll}31 & 7\end{array}$ | 270 | 316 | 32 | 11 |
|  | 4th Qtr. | 3710 | 320 |  | 4 | 316 | 269 | 31 | 33 | , |

Fooo, Ghocrries, and House Rint Combined.

| 1907 | 190 |  | 154 | 182 | 207 | 17 | 7 | 180 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1911 | 210 | 188 | 17 t | 215 | $23 \quad 3$ |  | 9 | 20 0a |
| 1920 | 385 | 358 | 331 | 3511 | 342 | 37 | 8 | 304 |
| 1921 | 3510 | 3310 | $30 \quad 5$ | '33 9 | 34 0 | 36 | 1 | 344 |
| 1922 | 3310 | 315 | 28 6 | 3110 | 317 | 32 | 7 | $32 \quad 2$ |
| 1923 | 3510 | 340 | 2910 | 338 | 326 | 34 | 7 | 342 |
| 1924 | 353 | 3210 | 2910 | 3311 | 13 6 | 35 | ] | 339 |
| 1825 -. | 364 | 3311 | 305 | 3410 | 343 | 35 | 0 | 348 |
| 1925 lsa Qtr. | $35 \quad 7$ | 331 | 297 | 345 | 34 | 35 | 5 | 340 |
| " End Qtr. | 309 | 3310 | 304 | 35 4 | $35 \quad 3$ |  | 3 | 34. 8 |
| ", 3al Qus. | 367 | 346 | $30 \quad 6$ | 3410 | $34 \quad 5$ |  | 7 | 3411 |
| $\cdots$ \#thertr. | 378 | 341 | 313 | 347 | 3211 |  | 9 | 350 |

(a) Base of each Bection.
10. Price Details, 1925.-The summarized results of price-movements are published quarterly, and the actual prices of food and groceries for each month are published in the Quarterly Summary of Statistics. Full information with regard to house rents is published annually. In appendixes to Report No. 1, particuiars were given of prices and house rents in the capital cities in each year from 1901 to 1911, and in appendixes to Report No. 2, similar particulars were given of prices and house rents in 1912 for each of the 30 towns from which returns are collected.

Corresponding data for subsequent years were given in the Reports specified :-1913, Report No. 5; 1914 and 1915, No. 6; 1916, No. 7 ; 1917, No. $8 ; 1918$, No. 9 ; 1919 , No. 10 ; 1920, No. $11 ; 1921$, No. $12 ; 1922$, No. 13; 1923, No. 14; 1924, No. 15; and 1925 in this Report.
11. Comparisons with previous years.-The following tables show for each capital city (i.) the total variation per cent. in the cost of lood, gruceries, and housing combined for 1925, as compared with preceding years; and (ii.), the amount of such variation due to (a) prices of food and groceries, and (b) house rent. The sum of the percentages for any year and city in the second and third sections of the table is equal to the corresponding total percentage in the first section. Thus, the total percentage of increaso in cost of fond, groceries, and house rent in Sydney for 1925 compared with 1907 is 91.64 per cent., of which percentage $55 \cdot 94$ is due to increased cost of food and groceries, and 3570 to increase in house rents.

Variation per cent. in Price Index-Numbers, Capital Cities, in 1925, compared with years specifisd.

| Year. | Sydney. | Melbourne | Brisbane. | Adelalde. | Perth. | Hobart. | Weighted A veruge for 6 Capital Chiep. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

Variation dur to Food, Grooeries, and Hodsina (4 and 5 Rooms Combined).

|  |  |  |  |  |  |  |  |  |
| :--- | :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| 1907 | $\cdots$ | 91.64 | 97.57 | 98.77 | 91.83 | 66.56 | 99.04 | 92.53 |
| 1911 | $\cdots$ | 73.42 | 81.41 | 75.85 | 62.66 | 47.43 | 86.55 | 73.33 |
| 1914 | $\cdots$ | 52.92 | 58.78 | 58.50 | 49.96 | 45.87 | 62.79 | 64.69 |
| 1920 | $\cdots$ | -5.36 | -3.86 | -8.61 | -3.13 | 0.19 | -7.08 | -4.61 |
| 1921 | $\cdots$ | 1.38 | 0.19 | 0.14 | 3.20 | 0.80 | -3.11 | 0.93 |
| 1922 | $\cdots$ | 7.27 | 7.84 | 6.52 | 9.26 | 8.41 | 7.31 | 7.70 |
| 1923 | $\cdots$ | 1.54 | -0.47 | 2.09 | 3.43 | 5.30 | 1.29 | 1.36 |
| 1924 | $\cdots$ | 2.72 | 3.08 | 2.06 | 2.58 | 2.42 | -0.16 | 2.68 |

Variation Due to Priges of Food and Grocibrits.

| 1907 | $\cdots$ | 55.94 | 59.93 | 64.27 | 61.16 | 44.98 | 56.86 | 57.73 |
| :--- | :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| 1911 | $\cdots$ | 47.44 | 54.35 | 51.73 | 47.89 | 31.83 | 50.10 | 49.03 |
| 1914 | $\cdots$ | 33.08 | 38.47 | 42.71 | 33.65 | 33.83 | 34.76 | 35.74 |
| 1920 | $\cdots$ | -11.80 | -10.92 | -11.94 | -10.14 | -4.08 | -11.65 | -10.87 |
| 1921 | $\cdots$ | -3.93 | -5.66 | -3.21 | -2.43 | -2.10 | -7.43 | -4.25 |
| 1922 | $\cdots$ | 3.05 | 4.12 | 5.52 | 4.58 | 6.42 | 0.63 | 3.94 |
| 1923 | $\cdots$ | -1.22 | -2.01 | 1.73 | 0.64 | 4.24 | -1.89 | -0.72 |
| 1924 | $\cdots$ | 1.88 | 2.41 | 1.85 | 1.80 | 1.77 | -1.38 | 1.95 |

Variation due to House Rents (4 and 5 Rogms Combined).

|  |  |  |  |  |  |  |  |  |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| 1907 | $\cdots$ | 35.70 | 37.64 | 34.50 | 30.67 | 21.58 | 42.18 | 34.80 |
| 1911 | $\cdots$ | 25.98 | 27.06 | 24.12 | 14.77 | 15.60 | 36.45 | 24.30 |
| 1914 | $\cdots$ | 19.84 | 20.31 | 15.79 | 16.31 | 12.04 | 28.03 | 18.95 |
| 1920 | $\cdots$ | 6.44 | 7.06 | 3.33 | 7.01 | 4.27 | 4.57 | 6.26 |
| 1921 | $\cdots$ | 5.31 | 5.85 | 3.35 | 5.63 | 2.90 | 4.32 | 5.18 |
| 1922 | $\cdots$ | 4.22 | 3.72 | 1.00 | 4.68 | 1.99 | 6.68 | 3.76 |
| 1923 | $\cdots$ | 2.76 | 1.54 | 0.36 | 2.79 | 1.06 | 3.18 | 2.08 |
| 1924 | $\cdots$ | 0.84 | 0.67 | 0.21 | 0.78 | 0.65 | 1.22 | 0.73 |

[^1]
## § 3. Food, \&c., Clothing and Miscellaneous.

I. General.--The Royal Commission on the Basic Wage, which met in 1919-1920, was appointed to inquire into and report upon the following matters:-
(i) The actual cost of living at the present time, according to reasonable standards of comfort, including all matters comprised in the ordinary expenditure of a household, for a man with a wife and three children under fourteen years of age, and the several items and amounts which make up that cost.
(ii) The actual corresponding cost of living during each of the last five years.
(iii) How the basic wage may be antomatically adjusted to the rise and fall from time to time of the purchasing-power of money.

Reference was made to the findings of this Commission in Report No. 11, pp. 28 and 29. In answer to the third clause of the inquiry, the Commission recommended that "a Bureau of Labour should be organized from" existing members of the Public Service, which should ascertain from time to time the rise and fall in the purchasing-power of money in relation to the reasonable standard of comfort for the typical family (i.e., such a family as is described in Clause J)." This suggestion was adopted by the Government, the Commonwealth Statistician was consulted as to methods, and the duty of carrying out the recommendation was entrusted to the Bureau of Census and Statistics.
2. Methods Adopted.-The Commission was concerned principally with ascertaining variations in the cost of the regimen adopted, which is described in the "Indicator List" published in the Report. It appeared, however, that the usefulness of the investigations by this Bureau would have been somewhat limited if confined in the way suggested by the Commission, and it was decided, therefore, to apply to a more detailed inquiry the method of index-numbers already used in the investigations into variations in the cost of food, groceries and housing. As will be shown later, the index-numbers may be used to measure accurately from time to time the rise and fall in prices in relation to the reasonable standard of comfort for the typical family as outlined by the Commission, as well as for the determination of variations in any standard fixed by previous investigations or which may be fixed in the future.

The ordinary expenditure of a household has been grouped under four heads--(i) Food and Grocories; (ii) Kousing; (iii) Clothing; (iv) Other Requirements.

It was decided to adopt for food, groceries and house rent,* the commoditaes method and weighting already in use, and the commodities and quantities conform very closely to those given in the "Indicator Lists" of the Com mission. With regard to housing, the Commission adopted a certain type of 5 -roomed house as its standard in determining the amount allowed for house rent, but the figures quoted by this Burcau, while not confined to any particular type, fairly represent variations in the rent for the type of house described by the Commission.

Inquiries by this Bureau had been confined to food, groceries and housing. It became necessary, therefore, to investigate the cost of clothing and miscellaneous. With regard to clothing, the Basic Wage Commission collecterd a large amount of information as to prices and duration of articles, and this has been used in computing the index-numbers given in the following tables.

With regard to miscellancous expenditure, inquiries wero made regarding cost of fuel and light, household utensils, drapery, crockery, and other itoms in the "Indicator Lists", and the aggregate expenditure thereon has been computed in the same manner as that for clothing.

The item "groceries (not food)" has been omitted from miscellaneous expenditure, though it was so described by the Commission, as the indexnumbers already published by this Bureau cover the articlos allowed for under this heading, such as soap, starch, blue, \&e.
3. Base.-For comparative purposes, it was nocessary to fix some period as base. In the case of index-numbers for food, groceries, and housing, already published, the year 1911 was selected. For the new index-numbers. covering all items of household exponditure, Novomber, 1914, was adopted owing to the difficulty of securing information with regard to prices of clothing and miscellaneous items tor earlier years. While the index-numbers for 1914 in the following tables relate to the month of November, they may hes accepted as typical of conditions immediately preceding the war. For base the weighted average cost for the six capital cities has been taken, und the aggregate expenditure in November, 1914, made equal to 1,000 .
4. Variations-Thirty Towns.-- The investigations have been exteaded to the 30 towns for the months of Novamber," 1921 , and May, August and November, 1922, and quarterly for the year 1923 and subsequeutly. The task of securing information for previous years as to prices of clothing and miscellaneous requirements in towns other than the capitals was considered unnecessary. So far as the capitals are concerned, details wert already available in the Report of the Royal Commission on the Basic Wage. Information of this nature is at present collected quarterly for all the towns, and yuarterly index-numbers are available.
5. Variations-Nov., 1914, to 4th Quarter, 1925.--The following tables give index-numbers for (i) Food and Groceries; (ii) Housing; (iii) Food, Groceries and Housing Combined; (iv) Clothing: (v) Miscellaneous Requirements ; (vi) Food and Groceries, Housing. Clothing and Miscellaneous Requirements combined.

[^2]



[^3]


6. Application of Index-Numbers.-The following table shows the manner in which the index-numbers in the preceding tables may be applied to the findings of the Royal Commission on the Basic Wage:-
Basic Wage Commission's Findings of 1920.-Cost at November, 1914, 1920, and 4th Quarter, 1925.

| Tow |  |  |  | Novem ber, 1914. |  | Novem ber, 1820. |  | 4th Quarter, 1025. |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | IndexNumber | Relative Cost. | Actual | Index- | Index- | Relative |
|  |  |  |  |  | ${ }^{\text {f }}$ | ${ }_{5}^{5} \frac{8}{5}{ }^{\text {d }}$ d |  |  | ${ }_{5}^{\text {s }}{ }^{\text {s. }}$ d ${ }^{\text {d }}$ |
| $\underset{\text { Malbenifne }}{ }$ |  | . | $\because$ | ${ }_{\text {\% }}^{1,036}$ |  | ${ }_{5}^{5} 1618$ | 1,706 | 1,432 | ${ }^{5} 51717$ |
| Brisbane ${ }_{\text {Adelat }}$ |  |  | , | ${ }^{889}$ | ${ }^{3}$ | ${ }_{5}^{5} 58$ | [1,534 | ci, | 4 14  <br> 5 2 3 <br>    <br>    <br> 1   |
| ${ }_{\text {Perth }}$ Adetald $:$ |  |  | $\because$ | 1,018 | ${ }_{3}^{3} 1212$ | 51311 | +1,677 | - | ${ }_{4}^{519}$ |
| Weobart ${ }^{\text {Welghted Averag: }}$ |  |  |  | 1,090 | $\begin{array}{ccc}3 & 8 \\ 3 & 8 \\ 3\end{array}$ |  | 1,765 | 1,481 1,457 | ${ }^{4} 1818$ |

The table shows, in the third column, the amount determined by the Basic Wage Commission as the cost of living according to the standard fixed by the Commission in November, 1920. Applying the index-numbers for 4th quarter, 1925, the relative costs of the Commission's standard for that quarter are obtained. In order to check the applicability of the indexnumbers for the determination of variations in the Basic Wage Commission's finding, the relative costs of the standard fixed for November, 1914, have been computed in the same manner. While they do not correspond exactly with the amounts as given in the supplementary Report of the Commission, they are 8 ufficiently near to show that the method adopted by this Bureau for measuring the variations gives results which closely approximate to those of the Commission. The amounts for November, 1914, as found by the Commission, are giver on page 17 of this Report. The greatest difference between the results is shown for Sydney, and amounts to 3s. ld. per week, while for Perth the difference is omly 3d. per weck.

## § 4. Retail Price Index-Numbers, 200 Towns.

1. General,-To supplement the information collected monthly for the 30 toms sperififed in the preceding chapter, a special investigation into prices in 70 additional tówns was undectaken in November, 1913. This investigation was repeated in November, 1914, and again in November 1915, when the number of additional towns was increased to 120 . In November, 1923, the number was further increased to 170. Information in regard to prices obtained in November each year will relate, therefore, to 200 towns. The results of the first investigation were published in Labour Bulletin No. 5 (Section IV., pages 26 to 33 ), where some description was given of the methols adopted in making the investigation and in computing the inclexnumbers. The results of succeeding investigations have appeared in the Larbour Bulletins and Reports of this Bureau.
2. Results-1923 to 1925.-.The results of the in vestigntion in November, 1925, are set out in the tablos on pages 38 to 41 . (See end of last column, on page 41.) Aggregate expenditure on food and groceries soparatoly is shown in the form of index-numbers for each year in column A. In columns $B$ and $C$ the corresponding aggregate expenditure on food, groceries, and rent of 4 -rooms, and food, groceries, and rent of 5 -rooms are shown for each year for each town. The index-number 1,675 (see page 41), represents the weighted average expenditure in 200 towns on food, groceries, and rant of 5 -roomed houses; 1,549 represents the average weighted expenditure on tood, groceries, and rent of 4 -roomed houses in November, 1925 . Similarly, in column A, the index-number 1,077 represents the relative weighted average exponditure on food and groceries only for November, 1925. The figures given in the table are comparable throughout. Thus, taking the average weighted expenditure for the 200 towns on food, groceries, and rent of 5 roomed houses as equal to 1,675 , the expenditure on the same items in Mcl. bourne is 1,691 ; while if 4 -rooned houses were substituted for 5 -roomed the expenditure in Melbourne would be represented by 1,556 compared with an expenditure of 1,549 on the average for 200 towns.

The change made in Report No. 13 in the basis on which the index-numbers were computed is continued in this issue. Previously the weighted average expendiuure on food, groceries, and rent of 5 -roomed houses for the 150 towns in each year was taken as base. In the tables on the following pages the same base is taken as in the tables referring to 30 towns and 6 capital cities given in the second paragraph, i.e., the weighted avorage expenditure on foorl, groceries, and housing in the 6 capital cities in 1911 is made equal to 1,000 .

Index-Numbers-Cost of Food, Groceries, and Housing in 200 Towns for November, 1923, 1924, and 1925, compared with the Weighted Average Cost of Food, Groceries, and Rent for all houses in the Six Capital Cities in 1911 as base ( $=1,000$ ).


Index-Numbers-Cost of Food, Groceries, and Housing in 200 Towns, etc.--continued.


Index-Numbers-Cost of Food, Groceries, and Housing in 200 Towns, etc.--continued.


Index-Numbers-Cost of Food, Groceries, and Housing in 200 Towns, etc.-continued.

| State and Town. | 1923. <br> Noversber. |  |  | 1924. November. |  |  | $1925 .$ <br> November. |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |
| Queanstand-continued. | A | B | 77 | , | ${ }^{\text {B }}$ | \% | A | B |  |
| \#anghenden .. | 1,194 | 1,688 | 1,770 | 1,101 | 1,583 | 1,682 | 1,197 | 1,734 | 1,866 |
| Innisiait | 1,909 | 1,814 | 1,923 | 1,211 | $1,6.49$ | 1,808 | 1.810 | 1,842 | 1,974 |
| Ipswleh | 1,063 | 1,406 | 1,458 | 963 | 1,2.16 | 1,391 | 1,044 | 1,873 | 1,439 |
| Longreach | 1,221 | 1.552 | 1,647 | 1,079 | 1,446 | 1,591 | 1,177 | 1,561 | 1,646 |
| Brackay | 1,06B | 1.448 | 1,571 | 087 | 1,407 | 1,511 | 1.087 | 1,586 | 1,671 |
| Maryborough | 988 | 1,251 | 1,353 | 059 | 1,233 | 1,351 | 1,05: | 1,317 | 1,449 |
| Mount Morgen | 1,127 | 1,357 | 1,384 | 1,023 | 1,300 | 1,348 | 1,071 | 1,832 | 1,321 |
| Nambour . | 1,054 | 1,400 | 1,498 | 934 | 1,410 | 1,408 | 1,085 | 1,4 88 | 1,541 |
| Homa | 1,132 | 1,484 | 1,634 | 1,010 | 1,326 | 1,434 | 1,109 | 1,488 | 1,545 |
| Stantisorpe | 1,134 | 1,508 | 1,575 | 1,075 | 1,431 | 1,508 | 1,153 | 1,548 | 1,614 |
| Tomnavile | 1,140 | 1,603 | 1,731 | 1,085 | 1,660 | 1,719 | 1,176 | 1,655 | 1,797 |
| Wintor | 1,285 | 1,735 | 1,834 | 1,108 | 1,656 | 1,722 | 1,199 | 1,502 | 1,012 |
| Welghted Average for State (32 Towns) . . | 1,063 | 1,393 | 1,492 | 987 | 1,320 | 1,430 | 1,086 | 1,430 | 1,540 |
| South Australia- |  |  |  |  |  |  |  |  |  |
| Adelatioe | 1,072 1.050 | 1,518 | 1,667 1,435 | 1,020 1,014 | 1,616 | 1,645 1,373 | 1,067 1,110 | 1,567 1,369 | 1,688 |
| Kadina, ete. | 1,050 1,110 | 1,334 1,433 | 1,435 | 1,014 1,060 | 1,281 | 1,373 1,479 | 1,110 1,154 | 1,369 1,500 | 1,450 1,596 |
| Port Piric | 1,051 | 1,433 1,286 | 1,530 | 1,060 094 | 1,309 | 1,479 1,316 | 1,154 1,040 | 1,500 1,2605 | 1,598 1,362 |
| Mount Gambier | 1,051 | 1,286 | 1.354 1.470 | 094 +103 | 1,583 | 1,316 1,584 | 1,040 | 1,260 1,520 | 1,362 1,598 |
| Petertborsugh | 1,079 1,006 | 1,305 1,269 | 1,470 1,375 | 1,103 1,083 | 1,502 1,370 | 1,584 | 1,116 1,105 | 1,520 1,473 | 1,598 1.530 |
| Freellng .. | 1,006 1,014 | 1,269 | 1,375 1,400 | 1,083 1,010 | 1,379 | 1,445 1,457 | 1,105 1,050 | 1,473 1,886 | 1,589 1,458 |
| Gawler .. | 1,014 | 1,326 1,304 | 1,400 | 1,010 1,004 | 1,308 1,215 | 1,457 1,327 | 1,050 1,073 | 1,886 | 1,458 |
| Kapinda $\quad$ Koringa | 1,041 | 1,304 | 1,403 | 1,004 1,053 | 1,245 | 1,327 | 1,101 | 1,284 | 1,349 1,386 |
| Koringa $\quad$ Miticent | 1,110 | 1,505 | 1,571 | $\begin{array}{r}1.008 \\ \hline 086\end{array}$ | 1,448 | 1,514 1,440 | 1,101 | 1,298 | 1,386 |
| Murray Bridge | 1,079 | 1,524 | 1,623 | 1,323 | 1,474 | 1,582 | 1,070 | 1,491 | 1,643 |
| Port Augusta | 1,112 | 1,437 | 1,540 | 1,123 | 1,448 | 1,551 | 1,209 | 1,565 | 1,648 |
| Quorn | 1,065 | 1,529 | 1,651 | 1,028 | 1,518 | 1,620 | 1,100 | 1,536 | 1,643 |
| Victor Harbour | 1.031 | 1.580 | 1,711 | 1,050 | 1,6.42 | 1,774 | 1,102 | 1,635 | 1,777 |
| Renmark .. | 1,166 | 1,640 | 1,759 | 1,116 | 1,61; | 1,749 | 1,231 | 1,708 | 1,810 |
| Welghted A verage for - State ( 15 Towna) . . | 1,073 | 1,498 | 1,639 | 1,024 | 1,49.4 | 1,616 | 1,074 | 1,545 | 1,681 |
| Western Australia- 1040 |  |  |  |  |  |  |  |  |  |
| Perth and Fremantle . . | 1,046 | 1,446 | 1,638 | 1,114 | 1,527 | 1,818 | 1,065 | 1,467 | 1,569 |
| Kalgoortle and Boulder | 1,238 | 1.580 | 1,645 | 1,258 | 1,590 | 1,651 | 1,235 | 1,550 | 1,611 |
| Northam | 1,154 | 1.510 | 1,610 | 1,074 | 1,406 | 1,612 | 1,161 | 1,556 | 1,738 |
| Bunbury | 1,050 | 1,420 | 1,525 | 1,137 | 1,507 | 1,601 | 1.134 | 1,504 | 1,508 |
| Gersidton | 1,131 | 1,570 | 1,654 | 1,142 | 1,682 | 1,704 | 1,172 | 1,619 | 1,751 |
| Albuny | 1,172 | 1,468 | 1,567 | 1,204 | 1,498 | 1,609 | 1,230 | 1,532 | 1,626 |
| Beverley | 1,072 | 1,281 | 1,360 | 1,132 | 1,366 | 1,423 | 1,119 | 1,384 | 1,472 |
| 3ridgetown | 1,149 | 1,560 | 1,326 | 1,143 | 1,538 | 1,604 | 1,232 | 1,643 | 1,709 |
| Broome | 1,306 | 1.964 | 2,030 | 士, 330 | 1,938 | 2,053 | 1,822 | 1,980 | 2,045 |
| Carnarvon | 1,249 | 1.743 | 1,841 | 1,184 | 1,710 | 1,776 | 1,329 | 1,823 | 1,021 |
| Collic | 1,105 | 1,467 | 1,593 | 1,172 | 1,567 | 1,682 | 1,236 | 1,598 | 1,664 |
| Greenbustres. | 1,103 | 1,378 | 1,404 | 1,242 | 1,440 | 1,460 | 1,251 | 1,435 | 1,474 |
| Katanining | 1,009 | 1,404 | 1,407 | 1,077 | 1,459 | 1,677 | 1,089 | 1,473 | 1,563 |
| Ieonora and Gwalla | 1,355 | 1,513 | 1, 653 | 1,39\% | 1,557 | 1,597 | 1,354 | 1,512 | 1,551 |
| Meckatharsa. | 1,162 | 1,425 | 1,49L | 1,364 | 1,627 | 1,603 | 1,430 | 1,893 | 1.759 |
| Narrogin | 1,180 | 1,636 | 1,794 | 1,154 | 1,028 | 1,812 | 1,160 | 1,643 | 1,792 |
| Wagin | 1,104 | 1,338 | 1,453 | 1,185 | 1,441 | 1,5137 | 1,144 | 1,467 | 3,675 |
| Yorks | 1,125 | 1,487 | 1,540 | 1,176 | 1,522 | 1,574 | 1,213 | 1,568 | 1,637 |
| Wetglited Average for State ( 18 rowns) .. | 1,078 | 1,466 | 1,585 | 1,138 | 1,530 | 1,604 | 1,103 | 1,499 | 1,590 |
| Tasmaniz- |  |  |  |  |  |  |  |  |  |
| Hobart | 1,114 | 1,544 | 1,762 | 1,051 | 1,573 | 1,724 | 1,077 | 1,554 | 1,718 |
| Jntinceston | 1,112 | 1,490 | 1,657 | 1,057 | 1,444 | 1,610 | 1,064 | 1,45! | 3,619 |
| jurnie | 1,176 | 1,583 | 1,746 | 3,042 | 1,485 | 1,621 | 1,110 | 1,575 | 1,689 |
| Devonport | 1,146 | 1,566 | 1,683 | 1,080 | 1,524 | 1,611 | 1,098 | 1,501 | 1,051 |
| Gneenstown.. | 1,214 | 1.478 | 1,650 | 1,185 | 1,448 | 1,527 | 1,225 | 1,488 | 1,567 |
| 3raconsfebl . | L,113 | 1,205 | 1,225 | 1,099 | 1,218 | 1,257 | 1,089 | 1,174 | 1,201 |
| Campleltrown | 1.052 | 1,280 | 1,908 | 1,045 | 1,259 | 1,383 | 1,094 | 1,298 | 了,349 |
| Delosaine .. | 1,019 | 1,197 | 1,457 | 1.014 | 1,363 | 1,306 | 1,023 | 1,352 | 1,418 |
| Frailibin | 1,082 | 1,314 | 1.45 L | 1,001 | 1,298 | 1,325 | 1,063 | 1,300 | 1,920 |
| Wew Norlolk | 1,043 | 1,372 | 1,405 | 1,032 | 1,301 | 1,460 | 1,057 | 1,393 | 1,444 |
| Scoltaiale | 1,129 | 1,392 | t, 4588 | 1,030 | 1,330 | 1,418 | 1,060 | 1,307 | 1,429 |
| Ulverstone | 1,128 | 1,450 | 1,558 | 1,030 | 1,680 | 1,477 | 1,082 | 1,411 | 1,510 |
| Zeehan | 1,\%51 | 1,415 | 1,468 | 1,154 | 1,364 | 1.430 | 1,250 | 1,454 | 1,519 |
| Verglited A verage State al 3 Towng | 1,120 | 1,526 | 1,689 | 1,059 | 1,500 | 1,647 | 1,083 | 1,506 | 1,052 |
| Welghted Average for Australla (200 Towns) | 1,083 | 1,520 | 1,642 | 1,0t2 | 1,472 | 1,597 | 1,077 | 1,549 | 1,676 |

(a) Figures not available.

By deducting the index-number in column $A$ from those in columns $B$ and C, the relative aggregate expenditure on housing is ascertained. Thus for November, 1925, the index-number for food and groceries in Melbourne (column A) is 1,053 . Subtracting this from 1,556 (column B) gives a difference of 503 , which is the relative cost of bouse rent for houses of 4 rooms, and from 1,691 (column C) gives a difference of 638 , which is the relative cost of house rent for houses of 5 rooms. The relative cost of housing can be ascertained similarly for each of the towns included.
3. Comparisons with Quarterly Results.-To determine the accuracy of the figures relating to variations in prices prior to 1912 for the capital cities only, and those since the beginning of 1912 for the 30 towns, the com parisons of the results have been made annually.

In the following table, the first line in each division shows the indexnumbers derived from the special inquiry covering 200 towns; the second line gives the results obtained from the returns received for the month of November, 1925, for the five towns in each State from which regular monthly returns are received; and the last line gives the results obtained from the November returns for the capital cities only. The capital cities are, of course, included in each of the other two investigations, and the five towns in each State are included in the investigation for "all towns ": -

Retail Price Index-Numbers-States, 1805.

| Particulars. | N.S.W. | Vte. | Qtand, | 8.A. | W.A. | Tus,Weighted <br> Avernge. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

Food and Groceries.

| All Towns (a) $\quad$. | 1,005 | 985 | 1,008 | 997 | 1,024 | 1,005 | 1,000 |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | :--- |
| Five Towns in eachi |  |  |  |  |  |  |  |
| State | 1,007 | 985 | 1,000 | 1,002 | 1,018 | 1,011 | 1,000 |
| Capital Cities only | 1,007 | 989 | 1,004 | 1,002 | 1,001 | 1,012 | 1,000 |

Rent, 5-Roomed Housfs.

| All Towns (a) $\ldots$ | 1,095 | 1,021 | 702 | 981 | 815 | 053 | $\mathbf{1 , 0 0 0}$ |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Five Towns in each |  |  |  |  |  |  |  |
| State Citios only | 1,102 | 1,013 | 729 | 979 | 806 | 982 | $\mathbf{1 . 0 0 0}$ |
| Capital Citen | 1,013 | 722 | 986 | 800 | 1,018 | 1,000 |  |

Food and Grogerips and Rent.

| All Towns (a) | 1,037 | 998 | 920 | 992 | 949 | 987 | 1,000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Five Townsin each |  |  |  |  |  |  |  |
| Stater .. | 1,042 | 996 | 902 | 994 | 941 | 1,000 | 1,000 |
| Capital Citica only | 1,038 | 998 | 899 | 996 | 926 | 1,014 | 1,000 |

(a) For list of towns inelnded, see Tables on pages 38 to 41.

The index-numbers for November, 1919 to 1925, computed from the three sets of data mentioned above with 1913 as base $(=1,000)$, are shown in the following table:-

Retail Price Index-Numbers-Australia, 1918 to 1925.

| P'articulars. | 1013. | 1010. | 1020. | 1921. | 1922. | 1923. | 1924. | 19.5. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

Food and Groceries.

| All lowns $(a)$ | $\ldots$ | 1,000 | 1,706 | 2,002 | 1,578 | 1,558 | 1,689 | 1,581 | 1,683 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Fuve Towns in each State | .. | 1,000 | 1,701 | 2,007 | 1,577 | 1,564 | 1,688 | 1,581 | 1,679 |
| Cupital Cities only | $\cdots$ | 1,000 | 1,715 | 2,021 | 1,588 | 1,580 | 1,689 | 1,694 | 1,689 |

Rent of 5-Roomed Houses.


Food, Grocertes, and Rent.

| All Towns (a) | 1,000 | 1,477 | 1,709 | 1,461 | 1,478 | 1,592 | 1,548 | 33 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Five Towns in each State | 1.000 | 1,471 | 1,700 | 1,458 | 1,480 | 1,584 | -1,543 | 1,613 |
| Capital Cities only | 1.000 | 1,464 | 1,697 | 1,455 | 1,480 | 1,566 | 1,531 | 1,594 |

The figuros th the vertical columns show merely the increase or decrease in cost in November of each year compared with November, 1913, for" All Towns," "Five Towns in each State," nud "Capital Cities ouly " respectively.
(id) See note to preceding table.

The index-numbers in the first line of each division of the table just given refer to 100 towns for November, 1913 ; to 150 towns for Nuvember, 1919 to 1922 ; and to 200 towns for November, 1923, November, 1924, and November, 1925. The general closeness of the results is remarkable, and indicates that the index-numbers for the capital cities only for the years prior to 1912, and for the 30 towns for 1912 and subsequent years reflect with a substantial degree of accuracy the variations in retail prices for Australia. .During the period November, 1913, to November, 1925, the average cost of food and groceries throughout Australia increased 68.3 per cent.; house rents increased 52.6 per cent.; the aggregate result showing an increase of approximately 62.3 per eent.

## § 5. International Comparison of Price Index-Numbers.

1. Wholesale Prices-Australia and other Countries.-The following table gives index-numbers of wholesale prices for the years 1913 to 1925 in Australia and other countries, the prices for the year 1913, the year before the war, being taken as base $(=1,000)$. These figures are obtained chiefly from the "Monthly Bulletin of Statistics" publishod by the League of Nations. It must be understood that the figures do not show the relative prices in the various countries, but the fluctuations in prices in each country separately.

Index-Numbers, Wholesale Prices, Varions Countries 1013 to 1925 (Prices in. 1813 as Base $\mathbf{m 1 , 0 0 0}$ ).


[^4]2. Retail Prices-Australia and other Countries.-The following table gives index-numbers of retail prices, (a) cost of living, including articles other than food, and ( $b$ ) food only for the month of July in each year from

1914 to 1925, and where available, for Janiuary, 1926, the prices for July; 1914 being taken as base $(=1,000)$. It must be understood, however, that the figures which have been obtained chiefly from the "Monthly Bulletin of Statistics," published by the League of Nations. show merely the fluctuations in prices in each individual country, and are not comparable hori\%ontally.

Index-Numbers of Retail Prices in various Countries for the Month of July, 1914 to 19:5, and January, 1996, with Prices in July, 1914 as Base ( $=1,000$;.
(a) COST OF LIVING.

(b) PRICES OF FOODSTUFFS.


## Index－Numbers of Retail Prices in Varions Conntries，\＆o．－continued．

（b）PRICES OF JOODSTUFFS－contintied．

|  | 突 | － | rocisins． |  | 离 |  |  | 去 |  | 管 |  | 完 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { No. of Towns } \\ & \text { and } \\ & \text { acaittjes. } \end{aligned}$ | Milint． |  | Watsaw． | 19 | $\geq 3$ | Buns． | 9 | 60 | 61 | 30 | 25 | Madrid |
| Juty t014 | 1，000 | 1，000 | $1,000_{1}^{\prime}$ | 1，000 | $\stackrel{0}{1,000}$ | 1，000 | 1，000 | 7，000 | 1，000 | t，000． | 1，000 | 1，000 |
| － 1915 | 1510 | alt |  | $1,2.00$ | 1,190 | $\because$ | 1.00 | 2．040 |  | 1．428 | 1191 | 1.060 |
| $\because 1918$ $\therefore 1978$ | 1，510 |  |  | 1，769 | 1,790 |  | 1，160 | 1，5：0 | 1， 1,4 | ， 2143 | 1，298 | 1.1200 |
| ＂，1918 | 3.250 | n2，710 |  | 2.280 | 2,920 |  | 1,30 | 1，720 | 1，650 | ＋，${ }^{1} 188$ | 1，393 | ， 5.50 |
| ＂， 1919 | 3100 | $\mathfrak{a}^{2}, 300$ |  | 3.180 | 2 2， 10 |  | 1．850 | 1． 800 | $1 . \mathrm{R60}$ | 1473 | ${ }_{1}^{1}+1,8$ | 1，740 |
| － 1020 | 4.450 | 3.140 |  | 28.0 | $\stackrel{2}{2} .300$ |  | 1.970 | 2，270 | 2150 | ． 9.912 | 1.674 | 1，900 |
| ＂． 1029 | 4.060 4.030 | $\underline{3.320}$ | 1，298， 420 | C，780 | － $1.5 \%$ | t，740） | 1，390 | 1，480 | 1.450 1,390 | 1， 1.412 | 1，637 | 1.880 1.810 |
| ＂．1023 | 4，900 | 2，180 |  | 1．530 | $16 \geq 0$ | 1，480 | 1.150 | 1，3\％ | 1.440 | 1,644 | 1,421 | $1, \bar{i} 70$ |
| $\because{ }^{\prime} 102+$ | 5.080 | 2， 480 | 1，391 | 1,550 | 1.613 | 1，510 | 1，170 | 1.310 | 1，401 | 1，485 | 1,483 | 1，840 |
|  | 6，020， | 2， 2000 | 1．739 | $\underset{1,620}{1,600}$ | ${ }_{p 1,610}^{1.010}$ | 1.5820 | 3，200 | 1,460 | 1，5841） |  | 1，507 | 1，810 |
|  |  | 210 | 1，01． |  | p1，0 | 1， 51 |  |  | 1，00｜ | 1，549 | 1，544 |  |

a Jtine b Janomy e First matr of the year．a Gold mark prices．os Since Jinuary，toge， tucluding olothitg．December．of a verages for years spectited．h From 1015 for month of Angust． i Fifure for tho whole sountry．jAverage for 1913 ．$k$ Alay．ifocluding fuel und mont．maveruge of selacted whek in the muddle of the year．on Quarterty indoxes，from 1914 to 1919，thinil quarter of oneh


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## CHAPTER II．－WAGES．

## §1．Operations Under Arbitration and Wages Board Acts．

1．Genaral．－Particulars regarding operations under the Common－ wealth Arlitration Acts and the various State Acts for the regulation of wages and hours and conditions of labour，showing the number of boards authorized and constitutod，also those which had and which had not made any award or determination in each State，the number and territorial scope of avards or determinations，and the number of industrial agreements in force，were first compiled to the 31st Decembor，1913．＊

These partioulars have from time to time been revised，and reviews to the end of approximately quarterly periods have been published in the periodi－ cal Labour Bulletins and Quarterly Summaries to the 3lst December， 1925.
＊Information as to the maln provisions of the various acta in force may be found in the Ofticlal Yeat Book No．16，pages 568 to 571 ．


[^0]:    * In the computabion of the index-numbers for years prior to 1011, the aggregate expenditure on 80 commodities in 1911 is taken as base ( $=1,000$ ), while for lator years the aggregate expenditure on 92 commodities in leli is taken.

[^1]:    NOTE,-Variations not pteneded by a slgn represent thereases, those preceded by a minus (-) represent decreapes.

[^2]:    *Tho bosls of housing accommodation bas been altered. In this section to comform with the lebsto adoptod in \$2 See p. 19.

[^3]:    Clothing.-Index-Numbers-30 Towns ; Weighted Average Six Capital Cities, Nov., 1919
    base $(\square 1,000)$.

[^4]:    $a$ Aprid. $\quad b$ Averace for the last ive montils.
    4 First six months.
    d Jty.

    - Fobrilary.
    
    Jily. Fobriary.
    \& Japunry.
    tndex

