CHAPTER II.—WHOLESALE PRICES AND PRICE INDEXES.

§ 1. General.

Two indexes of wholesale prices are compiled by the Bureau. These are: (i) The Melbourne Wholesale Price Index; and (ii) The Wholesale Price (Basic Materials and Foodstuffs) Index. Particulars of the Melbourne Wholesale Price Index, which is now obsolescent, are given in § 3 commencing on page 27 below.

After reviewing the list of items and weighting of this index the 1930 Conference of Statisticians resolved that a new index of Wholesale Prices of Basic Materials and Foodstuffs should be compiled. This index extends back to the year 1928 and is compiled monthly. This Wholesale Price (Basic Materials and Foodstuffs) Index is one of a series of wholesale price indexes designed for special purposes.

§ 2. Wholesale Price (Basic Materials and Foodstuffs) Index.

1. Price Quotations.—The prices used in the index have in the main been obtained directly from manufacturers and merchants, and, with a few important exceptions, from Melbourne sources. Apart from locally-produced building materials and one or two minor commodities, however, the price movements may be taken as representative of variations in wholesale prices of basic materials in most Australian markets.

Commodities in the index are priced in their primary or basic form wherever possible and in respect of imported materials as nearly as may be at the point where they first make effective impact on the local price structure. Thus the price of imported goods is not taken at the time of import, but rather on an ex-bond (or into factory) basis.

Broadly, where home-consumption prices exist for local products, they have been used in this index. During the year 1950-51 wool for local manufacture was subsidized. The home-consumption price for wool was used to calculate the index numbers shown in the table on page 27.

- 2. Commodities and Grouping.—For purposes of this index "basic" materials (as opposed to certain of the foodstuffs) are commodities in the primary or basic forms in which they first enter into productive processes carried out in Australia. The list of items is divided into seven main groups, each group being sub-divided into goods which are mainly imported, and goods which are mainly home-produced. A full list of these commodities is set out below, showing the quantity-multipliers (weights) for each commodity. The percentage of the total aggregate value in 1956 contributed by each group is also shown.
- 3. Method of Construction.—The index is constructed on the simple aggregative fixed-weights formula. The weights (quantity-multipliers) are based on estimates of the average annual consumption of the commodities in Australia during the period 1928-29 to 1934-35 inclusive. Changes in usage, changes of category as between "imported" and "home-produced" for some commodities, and changes in the industrial structure have affected the validity of some of the weights in the index.

During 1956, supplies and prices of potatoes and onions fluctuated violently upwards and downwards between abnormally wide limits. These fluctuations were so great as to dominate the movement of the sections of the index in which these items were included, namely, "Foodstuffs and Tobacco", "Goods Principally Home Produced" and "Total All Groups". In the circumstances of the case, neither seasonal adjustment nor conversion of the index to a "changing weights" formula could be applied to eliminate these transient

fluctuations. Accordingly, in order to provide a representative measure of general trend in wholesale prices, the index was reconstructed as from July, 1936 by omitting potatoes and onions.

Consideration is being given to the enlargement of the index to cover additional groups and to revision of the weighting pattern of the index.

WHOLESALE PRICE (BASIC MATERIALS AND FOODSTUFFS) INDEX.

LIST OF COMMODITIES, UNITS OF MEASUREMENT AND QUANTITY-MULTIPLIERS.

Commodity.	Unit.	Quantity- muktpher. (Weight.)	Commodity.	Unit.	Quantity- multiplier. (Weight.)
Metals and Coal— Principally Imported— Aluminium Principally Home-pro- duced—	ton	985	Rubber and Rides— Principally Imported— Rubber, crude Principally Home-pro- duced—	ìb.	24,214,400-
Iron and steel Briqueties Copper, w're bars	ton ton ton ton	637,000 243,000 7,000 9,300,000	Calf skins ,, Cattle hides Tanning bark	lb. lb. ton	4,455,000 57,246,000 23,000
Lead, soft pig Tin, ingots Zinc, ingots	ton ton ton	10,400 1,250 14,800	Building Materials— Principally Imported— Timber, softwoods	1,000 sup. ft.	346,500
Oils, Fats and Waxes— Principally Imported— Coconut oil	ton.	6,500	Turpentine Principally Home-pro- duced— Bricks	gallon 1,000	458,000 372,000
Fuel oil Linseed oil Lubricating oil	ton gallon gallon gallon	170,000 2,250,000 3,960,000 21,000,000	Cement Drain-pipes Glass, window	ton foot 100 sq. ft.	479,000 7,270,000 82,370
Petrol Principally Home-pro-	gallon Ib.	169,112	Lime Plaster Timber, hardwoods	ton ton 100 sup. ft.	51,144 53,000 2,575,000
Tallow	ton.	26,000	White lead Whiting	cwt.	60,000 274,000
Principally Imported— Hemp Kapok	ton lb.	5,575 6,160,000	bacço(a)— Principally Imported— Tapioca	cwt.	754,86 <u>0</u> °
Jute fibre Phormium tenax Silk, raw Principally Home-pro-	ton ton Ib.	2,275 455,900	Cocoa, raw Coffee Tea Mustard	cwt. lb. lb. doz. lb.	104,460* 3,642,000 48,954,520 49,340
duced— Cotton, raw Wool, greasy	lb. lb.	15,900,000 50,200,000	Herrings Sild Tobacco, leaf	doz. lb. doz. 4-oz. tans lb.	289,760- 847,560 18,321,340
Chemicals— Principally Imported— Ammonium sulphase	ton	23,830	Principally Home-pro- duced— Barley	bushel bushel	5,185,260 330,640
Potash, muriate Potash, sulphate Soda ash	ton ton ton	4,055 2,025 21,400	Oats Rice Wheat	bushel cwt. bushel	15,713,240 339,246 41,880,980
Soda, nitrate Soda, nitrate Chilean Sulphur	ton ton ton	1,100 3,600 95,500	Peas Sugar Beef Lamb	bushel ton 100 lb. lb.	675,980 352,682 7,352,520 87,245,740
Principally Home-pro- duced— Arsenic	ton ton	1,531 34,431	Mutton Pork Butter fat Lard	16. 15. 16. 16.	458,081,320 49,923,380 204,156,640 1,497,840
Methylated spirits Soda crystals Superphosphate	gallon ton ton	2,374,000 4,986 704,144	Milk	gallon lb. lb.	167,838,800 10,391,520 18,893,700 98,668
Suipraric acia	ton	226,450	Grapes	ton	20,000

(a) Includes weights transferred from deleted articles.

The percentage of the total aggregate value in 1956 contributed by each group was as follows:—Metals and coal, 18.37 per cent.; oils, fats and waxes, 8.95; textiles, 3.69; chemicals, 3.95; rubber and hides, 1.88; building materials, 11.14; foodstuffs and tobacco, 52.02. Goods principally imported comprised 26.29 per cent. of the total aggregate in 1956 and goods principally home-produced, 73.71 per cent.

4. Index Numbers.—Index numbers for each group of commodities and for all groups combined for the index of wholesale prices of basic materials and foodstuffs are given in the following table. Current index numbers, on the base: Average of three years ended June, 1939 = 100, are published in the Monthly Review of Business Statistics.

WHOLESALE PRICE (BASIC MATERIALS AND FOODSTUFFS) INDEX NUMBERS.

(Base of each Group: Year 1928 = 100.)

			Basic Materials.								Basic Materials and Foodstuffs.			
Period.		Metals and Coal.	Oils, Fats and Waxes.	Tex- tiles.	Chemi- cals.	Rub- j ber and Hides.	Build- ing Mai- erials.	Total	Food- stuffs and To- bacco (a)	Goods principality lm- por- ted. (b)	Goods princi- pally Home- pro- duced. (a)	All Groups, (a)		
1928 1929 1930 1931 1932 1933 1935 1937 1938 1939 1939 1940 1941 1942 1944 1944 1945 1946 1947 1948 1949 1949 1949 1950 1951		100 955 89 83 82 79 74 72 79 80 81 84 88 97 103 102 107 1260 179 1260 179 129 129 129 129 129 129 129 129 129 12	100 102 108 109 107 88 82 88 91 95 97 123 134 151 160 152 142 159 166 179 179 179 179 179	100 83 61 574 62 662 76 61 678 82 910 108 108 108 108 108 408 408	100 98 95 98 95 89 82 82 82 82 81 116 118 117 116 123 179 229 277	100 77 555 581 566 59 729 866 762 98 104 106 106 104 104 104 104 104 105 105 105 105 105 105 105 105 105 105	100 98 100 101 98 100 98 97 99 10 104 105 137 137 138 181 183 184 204 204 213 258 432	100 98 93 93 92 88 83 80 79 82 90 104 112 125 135 135 135 137 157 175 208 204	100 107 95 81 79 78 81 85 90 95 96 92 105 1121 123 127 137 129 137 129 137 220 242 272	100 101 105 111 108 101 108 101 108 101 103 105 113 101 113 113 113 113 113 113 113 113	100 103 92 79 76 75 75 76 81 86 85 83 90 91 104 106 108 114 135 154 182 237 277	700 103 95 84 81 81 83 86 92 91 107 119 127 129 129 127 129 127 202 248 285		
1953 1954 1955 1956 1957	::	307 305 314 322 317	217 204 203 219 227	467 387 341 346 363	279 260 259 272 286	154 154 228 240 221	394 380 411 466 486	301 290 298 316 321	286 293 304 309 308	307 296 312 332 339	285 286 294 302 302	291 288 298 309 311		
January February March April . May . June . July . August September October November December		324 322 320 320 317 316 316 316 313 313 313	227 230 230 230 230 226 226 226 226 226 226 226 226 226 22	383 390 382 393 394 377 355 352 326 319 301	283 283 283 283 283 284 291 291 291 291 285 285	232 225 224 219 219 218 214 214 215 223 224 222	490 490 490 490 490 490 490 479 480 479 479	326 327 325 326 325 322 322 321 319 317 315 313	304 307 307 307 301 311 315 321 317 305 298 302	347 349 345 343 341 337 334 335 332 334 337 334	300 302 302 303 299 305 309 312 309 299 299 292	311 313 313 313 309 313 315 315 307 303 304		

⁽a) During 1956 these indexes were reconstructed from July, 1936 by excluding potatoes and onions. See para. 3 on page 25.

(b) Represents only such imported commodities as are included in the Wholesale Price Index and does not measure changes in price of all imports.

§ 3. Melbourne Wholesale Price Index.

1. General.—An index of Melbourne wholesale prices was first computed in 1912. It relates chiefly to basic materials and foods weighted in accordance with consumption in the years immediately preceding that date. Neither the list of items nor the weighting has been varied. Consequently, the index is outmoded for current use and is a measure of variations in wholesale prices based on the weighting originally determined. It has some historic significance as a measure of changes in the prices of its component items combined in the

NOTE.—The figures given in this table are comparable in the vertical columns, but are not directly comparable horizontally.

proportions in which they were in common use about the year 1910: It is now published only on an annual basis and is used mainly as an approximate indication of long-term trends since the year 1861, for which it was first compiled. A description of the index and a list of the commodities included in it were published in Labour Report No. 38, 1949, pages 43-45...

2. Index Numbers —1861 to 1953 (1911 base).—Index numbers for each group of commodities, as well as for all groups combined, are shown in the following table:—

MELBOURNE WHOLESALE PRICE INDEX NUMBERS.

(Base of each Group: Year 1911 = 1,000.)

			7,						
Year.	Metals and Coal.	Wool, Cotton, Leather, etc.	Agricul- tural Pro- duce, etc.	Dairy Produce.	Gro- ceries.	Meat.	Building Materials.	Chemi- cals.	All Groups.
1861 1871 1881 1891 1901	1,178 895 1,061	1,381: 1,257: 1,115: 847: 774!	1,583 1,236 1,012 1,024 928	1,008- 864 935 995 1,029	1,963 1,586 1,421 1,032 1,048	888 1,345	1,070 1,044 1,091 780 841	2,030 1,409 1,587 1,194 917	1,538- 1,229 1,121 945 974
1902 1903 1904 1905	1,007 923 821 772 882	756) 8341 885: 850) 978	1,192 1,209 754 894 916	1,215 1,059 876 980 972	945 936 916 942 923	1,447 1,443 1,427 1,209 1,110	837 875 845 809 896	881 921 875 859 864	1,051 1,049 890 910 948
1907 1908 1909 1910	1,037 1,033 1,014 1,004 1,000	1,017' 901 907' 1,052 1,000	973 1,312 1,000 969 1,000	1,020 1,198 1,119 1,100 1,000	948 968 978 999 1,000	1,294 1,335 1,088 1,008 1,000	968 935 911 996 1,000	961 891 815 898 1,000	1,021- 1,115 993 1,003 1,000
1912 1913 1914 1915	1,021 1,046 1,099 1,284 1,695	1,070 1,032. 1,017 1,423	1,370 1,097 1,207 2,162 1,208	1,206 1,054 1,137 1,530 1,485	1,052 1,024 1,021 1,133 1,322	1,357 1,252 1,507 2,435 2,515	1,057 1,128 1,081 1,275 1,491	978 995 1,253 1,528 1,760	1 170 1,188 1,149 1,604 1,504
1917 1918 1919 1920 1921	2,129 2,416 2,121 2,302 2,173	2,008 2,360 2,363 2,625 1,361	1,157 1,444 1,987 2,460 1,767	1,423 1,454 1,651 2,213 2,000	1,343 1,422 1,514 1,920 1,977	2,403 2,385 2,342 3,279 2,158	1,884 2,686 2,852 3,226 2,733	2,171 3,225 2,896 2,834 2,303	1,662 1,934 2,055 2,483 1,903
1923 1924 1925 1926	1,941 - 1,826 - 1,835 1,851 1,938 1,962	1,681 2,148 2,418 1,966 1,582	1,628 1,778 1,647 1,796 2,001 1,826	1,648 1,840 1,655 1,636 1,784 1,823	1,869 1,746 1,721 1,723 1,730	1,787 2,579. 2,223 2,212 1,931	2,005 2,024 1,814 1,711 1,664 1,623	1,965 1,933 1,806 1,790 1,816	1,758 1,944 1,885 1,844 1,832 1,817
1928 1929 1930	1,912 1,912 1,867 1,826	1,650 1,781 1,555 1,127 1,040 998	1,726 1,793 1,484 1,121	1,823 1,751 1,854 1,627 1,398 1,304	1,724 1,707 1,689 1,666 1,794	2,111 2,015 2,245 2,024 1,512 1,351	1,744 1,755 1,875 2,025 2,043	1,923 1,943 1,982 2,166 2,127	1,817 1,792 1,803 1,596 1,429
1933 1934 1935 1936	1,713 1,660 1,602 1,566 1,772	1,118 1,261 1,217 1,330 1,406	1,175 1,288 1,344 1,480 1,604	1,194 1,274 1,325 1,351	1,714 1,735 1,729 1,731 1,750	1,485 1,540 1,508 1,684 1,678	2,061 2,015 1,964 1,969 2,430	2,105 2,017 1,996 1,997	1,409 1,471 1,469 1,543
1938 1939 1940 1941	1,746 1,758 1,854 1,960	1,051 1,101 1,361 1,402.	1,789 1,820 1,567 1,721 1,900	1,549 1,557 1,567 1,554 1,665	1,747 1,752 1,784, 1,883 1,938	1,871 1,710 1,882 1,776 2,312	2,238 2,220 2,890 3,138	2,059 2,075 2,298 2,527 2,437	1,662 1,665 1,713 1,796
1943 1944 1945 1946	2,146 2,272 2,278 2,270 2,262 2,390	1,945 1,967 1,960 2,062 2,690	1,964 2,052 2,259 1,951 2,019	1,716 1,721 1,726 1,722 1,763	1,939 1,949 1,967 1,977	2,366 2,470 2,560 2,589 2,748	3,764 3,768 3,770 3,772 3,800	2,442 2,442 2,527 2,614 2,843	2,117 2,159 2,228 2,162 2,360
1948 1949 1950 1951	2,829 3,502 3,902 - 5,080	3,619 3,966 5,464 7,943 7,365	2,383 2,876 3(155 4,512 5,038	2,104 2,309 2,459 2,930 4,024	2,174 2,435 2,558 2,829 2,850 3,455	2,976 3,356, 4,616 6,438 6,289	4,631 4,611 (a) 5,567 (a) 7,074 (a) 9,338	3,180 3,221 3,263 3,294 3,723	2,824 3,191 3,816 5,098 5,647
1953	6,615	6,950	4,958	4,533	3,767	6,303	(a) 8,519·	4,691	(b) 5,631

⁽a) The list of items and weighting of the original Building Materials group of this index are outmoded in respect of recent years. The movement shown here for this group between 1949, and 1953 has been calculated in accordance with the movement occurring in the Building Materials group of the Basic Materials and Footsuffs Index. (b) The "All Groups" index numbers for the years 1954, 1955, and 1956 were 5,384, 5,548 and 5,916 respectively.

Note.—The figures given in this table are comparable in the vertical columns, but are not directly omparable horizontally.

§ 4. International: Comparisons: Wholesale Price Index Numbers.

The following table gives index numbers of wholesale: prices during the period 1950 to June, 1957 for Australia and other countries. Except where otherwise noted, the average prices in each country for the year 1953 are taken as base (= 100): The figures, which have been taken from the Monthly Bulletin of Statistics published by the Statistical Office of the United Nations, show fluctuations in prices in each country, and do not measure relative price levels, as, between the various countries included.

INDEX NUMBERS: OF WHOLESALE PRICES IN VARIOUS COUNTRIES:

(Source: Monthly Bulletin of Statistics of the Statistical Office of the United Nations.)
(Base: 1953: = 100:)

Period.			AUSTRALIA.	BELGIUM.	BgAZIL.	CANADA;	DENMARK.	Prayce.	Germany (Western).	India.(a)	Indonesta (Djakarta).(8)	IRSTAND,	
1950 1951 1952 1953 1954 1955 1956			***	69 85 98 100. 99 1027	93 113 107 100. 99' 101' 104	66 79 87 - 100 130 147, 176	96 109 102 100 98 99 102	86- 109 107 100 100 103 107	78. 100 105 105 100 98 98	85 100 103 100 98 101 103	101- 110 97 -160- 94- 87	72 99 94 100 109 145 135	82 95 100 (c)100 98 101 101
1956— Mar June Sept Dec	ch Qtr:		••	104 107 108 107,	103 103 103, 105	158 170 183 192,	101 102 103 103	801 801 801 801	101 102 102 103	102! 102 102 104	91 96 100 102	136 132 134 138	101 102 101 101
1957— Mar June	ch Qtr.	::	::	108 107	106	2001 196	103. 103	109	104 105	105. 105	101. 101.	142 146	104 107

Period:	TAĻV.	Japan (Tokyo).	Netherlands.	New Zealand.	Norway.	PHILIPPRNES (Mậnila).	Śweden.	UNION OF SOUTH AFRICA,	UNITED KINGDOM (d)	UNITED STATES OF AMERICA.
1950 1951 1952 1953 1954 1955	93 106 100 101 101 101	70 97 100 100 100 99 98 102	87 107 104 100 101 102 104	78 91 101' 100 99 100'	76 94' -101- 100' 102 104- 109	98. 110 101 ⁴ 100 95 92 96	76 100 106 100 100 104 109	76 86 99- 100 101 104- 105	95. 133. 111. 100. 98 105. 107	104 104 101 100, 100 101 104
1956— March Qtr.: June: Sept: " Dec: "	103' 103 101 102	99 101 102 105	104 ⁴ 105 104 106	101 103 106 106	106: 109 110 111	92. 96 97 97	109 110 109 109	105 105 105 106	106: 106: 107' 109:	102 104- 104 ⁻ 105-
MarchiQtrJune`,,	101:	106; 106	107. 107	103 106	113 113	97) 97	110 109	107: 106	1101 109	106. 106

⁽a) Base: April-December; 1953 = 100, nly... (d). Non-food industries only...

⁽b). Imported goods.

⁽c). Home-produced goods:

Note.—The symbol — on each side of an index number (e.g., -95.) indicates that two series have been linked at that period. The symbol ———between two index numbers indicates that it is not possible to link two series (change in scope, etc.); and therefore the index numbers are not comparable with each other even though they are shown on the same base period.