## § 11. International Comparisons: Retail Price Index-Numbers.

The tables giving index-numbers of retail prices for (i) cost of living, including articles other than food, and (ii) foodstuffs only, appearing in previous issues of this Report have been discontinued for the duration of the war, owing partly to the need for economy, and partly to the information for many countries being no longer available. The figures, which were taken chiefly from the League of Nations Monthly Bulletin of Statistics, and the International Labour Office Year Book of Labour Statistics, are of course still obtainable from the publications mentioned.

#### CHAPTER II.—WHOLESALE PRICES AND PRICE INDEXES.

#### § 1. Melbourne Wholesale Price Index.

I. General.—The data on which this chapter is based relate almost entirely to wholesale prices in Melbourne. An index of Sydney wholesale prices is compiled by the Government Statistician of New South Wales, and published in the Year Book and the Monthly Summary of Business Statistics of that State.

The index of Melbourne wholesale prices was first computed in 1912, and has been continued on the same lines since that year. The items included in the (old) Melbourne wholesale price index comprise chiefly basic materials which in the form of raw material, food, or as a source of power, enter into production for home consumption. The purpose of the index, therefore, is to measure the changes in the prices of these particular materials rather than the changes in prices generally. As Australia does not, to any extent, manufacture from imported raw materials commodities for export, the local consumption appears to give the most appropriate weighting. Any lack of uniformity in the variations of the index-numbers for these wholesale prices and for retail prices would indicate broadly changes in the relation of manufacturing and distributing charges to the cost of basic materials.

The scope of this wholesale price index can best be understood by an examination of the list of commodities included which is given on page 34. This list is, to a large extent, comparable with that used in the compilation of the *Economist* and *Statist* index-numbers for Great Britain, but differs largely from that used for the wholesale price index-numbers of the United States (Bureau of Labour) or Canada (Department of Labour).

2. The Grouping of the Commodities.—The commodities are divided into eight groups, as set out on page 34. The descriptions of the groups are given in the following tables with the proportional cost of each group for the year 1940. These proportions may be used with fair accuracy as "weights" to combine any group index-numbers at the present time, but would give unsatisfactory results if used for a time when prices were relatively much different.

Groups of Commodities.

Group.	Description.	Percentage of Aggregate Cost (1940).	
1.	" Metals and Coal "		15
п.	"Wool, Cotton", also jute, leather, &c.		14
111.	"Agricultural Produce"		25
IV.	"Dairy Produce"		9
v.	"Groceries"		16
VI.	" Meat "		11
VII.	" Building materials " (mostly timber)		9
VIII.	"Chemicals" (excluding fertilizers)		1
			100

It will be noticed that the group "Chemicals" is practically negligible.

The index relates chiefly to basic materials, but a certain proportion of Australian manufacturing costs enters into all groups. The amount is small in Meat (VI.), Agricultural Produce (III.), and Wool, Cotton (II.), and greater in others, but the difference is not sufficient to justify any inference as to different changes of the price-level for manufactured goods and farm products. The number and weight of manufactured commodities included are too small to warrant deductions of this nature from any possible grouping.

Many of the commodities included are affected by the tariff. Wool, Cotton (II.), Agricultural Produce (III.), and Meat (VI.), are little affected, and Dairy Produce (IV.) not greatly, but in the other groups the tariff is a dominating influence.

Melbourne Wholesale Price Index: Commodities included, Units of Measurement, and "Mass-Units",

Commodity.	Quality.	Unit.	Mass Unit.	Commodi	ty.	Quality.	Ūzit.	Maas Unit.			
(	GROUP I. (Metaks and Co	oal).		GROUP II. (Wool, Cotton, also Jute, Leather, &c.)							
Lron-				Branbags		ļ	Doz.	110			
Pig	Mixed	Ton	64	Cornsacks		l l	.,	250			
Rod and Bar	Nos. Stafford			(Woolpacks		í í	Each	200			
Angle	Dungota	**	31 31 3	Leather-		1 }		ì			
Plate	,,	27	3,	Chrome	Box		ft.	1,200			
Hoop	26 gauge	**	5	Hide Rough Ta	nned	[	1b.	600			
Pencing Wire	No. 8	Ton	6	—Split		''					
Cioned Plates	I.C. Coke	Box	60	Sole Leath   Factory		l I	11	600			
Zinc, sheet	1 1	Ton	1	Sides		1					
Lead, aheet	1		1	Cotton		Raw	.,	24,000			
., pipea	1 1		1	Wool		Стеаву		12,200			
Copper, sheet	1	lb.	2,000	Twine	٠,	Reaper	**	150			
Quicksilver	1	,,	12	]]		and l		1			
Coal	Newcastle, on wharf	Ton	600	Tallow		Binder Mutton Prime	Ton	t			

# Melbourne Wholesale Price Index: Commodities included, Units of Measurement, and "Mass-Units"—continued.

Commodity.	ommodity. Quality. Unit.		Mass Unit,	Commodity.	Quality.	Unit.	Mass Unit.			
(Aj	GROUP II ricultural Pr		GROUP V.—continued. (Groceries).							
Wheat Flour Fran . Follard Date . Sattles Satt	Milling Colonial English Cape Best Magr. Prime Victorian	Bus. Ton Bus. Ton Bus. Ton Bus. Ton Bus. Ton	500 48 14 14 1,200 100 1,000 1,000 1,35 135 25 40 140 3	Starch Blue. Matches Candles Tohacco Kerosene	White Keen's Australian Safety Rangoon	Gröse lb. Gäll.	100 50 90 1,500 1,700			
	GBOUP IV			Mutton . Lamb Veal .	Average quality	lb.	33,000 5,600 2,000 3,700			
(Dalry Produce).			800 3,200 1,500	GROUP VII. (Building Materials).						
Jutterard	Best Fresh Bulk Ordinary  Bacchus Marsh	Doz. lb.	9,500 200 1,800 600 40 160	Timber-	Flooring—  6 x 14 6 x 2 6 x 3 6 x 4 Weather- boards Oregon Shelving	100 ft. iin. "" "" 1,000 ft.	30 30 30 300			
				Cement .		" Cask	30			
	GROUP V.		 	White Lead .	1	Ton	[			
	(Groceries).			Slates .	l	τ,000				
Currants Raisine Herrings Salmon Sardines Ten Coffee	Sultanas 1-lb. fresh 1-lb. tali Alaska Haives Plantation	lb. Doz.'i-lb. tins " Doz. halves	1,400 1,400 50 50 100 3,000		GROUP VIII		<u> </u>			
Conces Cocos Sugar Macaroni Tapioca Rice Salt  Salt  Mustard	McKenzie's No. 14 Australian fine Rock Coleman's	Ton Ib, cwt. Ton	100 22 200 7 2 7	Gream of Tarta Bi-Carbonate of Soda Saltpetre Sulphur Caustic Soda Alum Potassium Cyanide	. Refined	lb. Ton "". cwt. Ton ib.	400 1-20 570			

3. Index-Numbers.—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, 1861 to 1940.

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

Year	r.	I. Metals and Coal.	Wool, Cotton, Leather, &c.	III. Agricul- tural Pro- duce, &c.	IV. Dairy Produce.	V. Grocer- ies.	VI. Meat,	VII. Building Materials.	VIII. Chemi- cals.	All Groupe.
1861 1871 1881 1891	::	1,438 1,096 1,178 895	1,381 1,257 1,115 847	1,553 1,236 1,012 1,024	1,008 854 935 995	1,963 1,586 1,421 1,032		1,070 1,044 1,091 780	2,030 1,409 1,587 1,194	1,538 1,229 1,121 945
1901	••	1,061	774	928	1,029	1,048	1,345	841	917	974
1902 1903 1904 1905	::	-1,007 923 821 772	756 834 885 850	1,192 1,209 754 894	1,215 1,059 876 980	945 936 916 942	1,447 1,443 3,427 1,209	837 875 845 801	881 921 875 859	1,051 1,049 890 910
1906 1907 1908 1909	::	882 1,037 1,033 1,014 1,004	978 1,017 901 907 1,052	916 973 1,312 1,000 969	972 1,020 1,198 1,119 1,100	923 948 968 978 999	1,110 1,294 1,335 1,088 1,008	896 968 935 911 996	864 961 891 815 898	948 1,021 1,119 993 1,003
1911 1912 1913 1914		1,000 1,021 1,046 1,099 1,284	1,000 991 1,070 1,032 1,017	1,000 1,370 1,097 1,207 2,162	1,000 1,206 1,054 1,137 1,530	1,000 1,052 1.024 1,021 1,133	1,000 1,357 1,252 1,507 2,435	1,000 1,057 1,128 1,081 1,275	1,000 978 995 1,253 1,528	1,000 1,170 1,088 1,149 1,604
1916 1917 1918 1919		1,695 2,129 2,416 2,125 2,208	1,423 7,008 2,360 7,363 2,624	1,208 1,157 1,444 1,985 2,439	1,485 1,423 1,454 1,651 2,209	1,322 1,343 1,422 1,516 1,918	2,515 2,403 2,385 2,348 3,279	1,491 1,884 7,686 2,851	1,760 2,171 3,775 2,898 2,845	J,504 1,669 1,934 2,055 2,460
1921 1922 1923 1924		2,173 1,942 1,826 1,835 1,852	1,362 1,681 2,148 2,418 1,967	1,767 1,628 1,778 1,647	7,000 1,648 1,837 1,655 1,636	1,976 1,869 1,746 1,721 1,723	2,158 1,787 2,579 2,223 2,212	2.733 2,005 2,025 1,815 1,711	2,503 1,965 1,933 1,806 1,790	1,963 1,758 1,944 1,865
1926 1927 1928 1929 1930		1,938 1,962 1,912 1,912 1,866	1,582 1,650 1,781 1,556 1,127	2,001 1,826 1,726 1,792 1,484	1,784 1,823 1,751 1,853 1,627	1,731 1,724 1,707 1,690 1,666	1,931 2,111 2,015 2,246 2,025	1,665 1,624 1,744 1,754 1,875	1,816 1,866 1,923 1,942 1,984	1,831 1,813 1,791 1,803 1,596
1931 1932 1935 1934 1935		1,826 1,736 1,713 1,660 1,602	1,039 1,000 1,118 1,261 1,217	1,121 1,230 1,175 1,288 1,344	1,399 1,303 1,195 1,274 1,325	1,794 1,767 1,714 1,735 1,729	1,508 1,348 1,487 1,540 1,508	2,025 2,043 2,061 2,015 1,964	2,166 2,127 2,106 2,018 1,996	1,420 1,401 1,401 1,471 1,460
1936 1937 1938 1939		1,566 1,772 1,746 1,758 1,854	1,331 1,406 1,051 1,101 1,362	1,480 1,604 1,789 1,820 1,568	1,351 1,451 1,549 1,557	1,731 1,750 1,747 1,752 1,784	1,684 1,678 1,871 1,710 1,882	1,969 2,430 2,238 2,220 2,800	2,005 2,059 2,075 2,298	1.545 1.656 1.665 1.665

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

4. Variations since 1914.—The variations in the index-numbers of the separate commodity groups for the years 1915 to 1940, are shown in the following table, taking July, 1914, as base (= 1,000) for each group:—

### Melbourne Wholesale Price Index-Numbers.

(Base of each Group: July, 1914 = 1,000.)

	Period.		I. Metals and Coal.	II. Wool, Cotton, Lesther, &c.	III. Agri- cultural Produce, &c.	IV. Dairy Pro- duce.	V. Gro- certes.	VI. Meat.	VII. Building Materials	VIII. Chemi- cale.	Ali Groups
July.	1914		1.000	1,000	1,000	1,000	000.1	1,000	1,000	1,000	1,008
	1915		1.166	934	3,034	1,272	1,098	1,502	1,164	1,490	1,406
ы	1916		1,539	1,307	1,140	1,235	1,266	1,551	1,361	1,716	1,318
28	1917		1,919	1,841	1,084	1,181	1,302	1,480	1,722	2, £4 £	1,456
**	1918	• •	2,197	2,324	1,351	1,210	1,378	1,469	2,448	3,085	1,695
ы	1919		1,930	2,169	1,858	1,373	1,469	1,448	2,602	2,827	1,801
**	1920	• •	2,091	2,430	2,228	1,840	1,860	2,022	2,944	2,764	2,178
**	1921	* *	1,974	1,250	1,653	1,663	6,016	1,331	2,495	4,346	1,668
*	1922	• •	1,763	1,543	T,523	1,370	1,811	1,102	1,830	1.917	7,541
**	1923	••	1,658	1,972	1,664	1,527	1,693	1,590	1,848	1,885	1,704
14	1924	• •	1,667	2,220	1,541	1,376	1,668	1,371	1,656	1.761	1,653
**	1925	• •	1,682	1,806	1,681	1,360	1,670	1,364	1,562	1,746	1,617
10	1926	• •	1,760	1,453	1,873	1,483	1,677	1,191	1,519	1,771	1,606
**	1927	••	1,707	1,515	1,709	1,516	1,654	1,301	1,482	1,876	1,595
76	1930	••	1,737	1,635	1,001	1,456	1,054	1,342	1,390	1,070	1.371
**	1929	• •	1,737	1,428	1,677	1,540	1.638	1,385	1,601	1,895	1,581
"	1930	••	1,695	1,035	1,389	1,353	1,614	1,249	1,712	1,933	1,399
*>	1931	+ +	T,650	954	1,049	1,163	1,738	930	1,849	3,112	1,252
"	1932	**	2,577	918	1,152	1,083	1,712	831	1,865	3,074	1,237
**	1933		1,556	1,026	1,100	994	1,661	917	1,662	2,054	1,235
H	1934	• •	1,508	1,158	1,105	1,059	1,682	950	1,839	1,968	1,290
H	1935	• •	1,456	1,116	1,258	1,100	1,677	931	1,792	1,946	1,288
**	1936	••	1,422	1,222	1,385	1,123	1,678	1,038	1,798	1,048	1,353
**	1937	• •	1,600	1,291	1,502	1,200	1,696	1,035	2,219	1,957	1,452
**	1938	• •	1,586	965	1,674	1,287	1,693	1,154	2,043	2,008	1,457
**	1939		1,597	1,011	1,704	1,295	1,698	1,054	2,026	2,024	1,460
"	1940	* *	1,684	1,250	1,467	1,303	1,728	1,161	3,638	2,242	1,502

#### § 2.—Basic Materials and Foodstuffs.

I. General.—As mentioned above, the Melbourne Wholesale Price Index was first computed in 1912. Neither the component items nor the weighting have been varied. Consequently the index is a measure of changes in wholesale price levels based on usages which have altered substantially since the period on which the weighting was determined. As such it is useful as an indication of long-term trends over the past 80 years which it covers, on the assumption that the relative importance of component items remained constant. But it no longer serves as a measure of price variations from month to month or from year to year of commodities weighted in accordance with present day consumption. Reference to the description of the index in § I above will indicate that animal fodders preponderate in the "Agricultural Produce" group, while "Building Materials" include little besides imported timber. In other groups, some principal items have increased in consumption while others have decreased. It was resolved, therefore, at the Conference of Statisticians at Brisbane in 1930 that the time had come to revise and extend the items included in

order to bring the index into line with changed conditions. An investigation to that end was commenced, and in the course of the past few years, many new price-series have been collected on a monthly basis back to January, 1928. Some of these have been incorporated in a new index of the rrices of basic materials and foodstuffs, preliminary index-numbers of which are currently published in the Monthly Review of Business Statistics. Others are being incorporated in a number of "special-purpose" indexes, which it is hoped to publish in the future. Their construction has been delayed in order to make use, for weighting purposes, of the larger amount of information which is now becoming available as the result of the collection of more extensive statistics of factory production. The price quotations have in the main been obtained directly from manufacturers and dealers, and, with a few important exceptions, from Melbourne sources. Apart from home-produced building materials, coal and one or two minor commodities, however, the price movements may be taken as representative of fluctuations in wholesale prices of basic materials in most Australian markets. weighting system adopted is based on average annual consumption during the years 1928-29 to 1934-35 inclusive. In the meantime, however, the original index has been continued on existing lines, as set out in § I of this chapter.

2. Index-Numbers.—Index-numbers for each group of commodities and for all groups combined for this new index of wholesale prices of basic materials and foodstuffs are given in the following table:—

Wholesale Price Index-Numbers—Basic Materials and Foodstuffs, 1928 to September, 1941.

Period,		Metals and Coal.	Oils, Fate and Waxes	Tex- tites	Chemi- cals,	Rubber and Hides.	Build- ing bla- terials.	Food- stuffs and To- bacco.	Goods princi- pally Im- ported.	Goods princi- pally Home Pro- duced.	All Groups
1928	••	1,000	1,000	900,1	1,000	1,000	1,000	1,000	1,000	1,000	000,1
1929		1.000	1.019	831	977	769	980	1,070	1,011	1,033	1,028
1930		954	1,082	612	955	548	998	951	1,053	917	951
1931		890	1,116	575	979	581	1,012	812	1,110	791	873
1932		827	1,069	539	180	530	984	792	1,082	762	842
1933		818	882	621	949	564	995	778	1,009	746	812
1934		785	816	664	885	бот	979	808	989	752	811
1935		740	877	620	817	593	971	849	1,025	761	827
1936		725	909	761	815	734	984	906	1,045	807	867
1937		791	952	872	817	889	7,102	929	1,126	843	914
1938		801	949	607	831	664	1,041	960	1,094	852	911
1939		814	972	650	835	779	1,047	958	1,112	858	920
1940	• •	836	1,229	776	969	934	1,269	998	1,331	903	1,008
1939—		١.			! .			· ·		l .	
January		810	944	577	833	713	1,022	950	1,103	843	906
<b>February</b>		294	947	587	534	705	1,022	971	1,077	863	915
March		813	947	577	835	711	1,022	1,032	1,075	910	950
April		813	948	574	835	697	1,016	1,005	1,075	800	935
May	• •	813	949	578	835	702	1,016	903	1,079	845	942
June		813	950	597	835	710	1,007	903	1,078	846	941
July		814	949	613	835	699	1,007	898	1,075	841	933
August	• •	815	947	010	835	727	1,007	893	1,076	833	923
September October	• •	815	951	728	835	797	1,091	912	1,[2]	851	935
	• •	815	996	786	835	886	1,092	934	1,158	862	961
November December	٠.	828	1,042	791	835	977	1,127	941	1,200	859	951
December		828	1,090	779	839	1,011	1,133	947	1,236	855	948

(Buse of each Group: Year 1928  $\approx$  1,000.)

# Wholesale Price Index-Numbers—Basic Materials and Foodstuffs, 1928 to September, 1941—continued.

(Base of each Group: Year 1928 = 1,000.)

Period.		Metals and Coal	Oils, Fats and Waxes.	Tex- tiles.	Chemi- cals.	Itubber and Hides	Build- ing Ma- terials.	Food- stuffs and To- bacco.	Goods princi- pally Im- ported.	Goods princi- pally Home Pro- duced.	All Groups
rg4o— Jaquary		828	1,000	78r	922	939	1,132	959	1,232	86n	958
Pebruary	٠, ا	829	1,100	755	923	953	1,193	965	1,247	874	966
March	·. '	832	1,143	773	923	945	1,194	977	1,263	886	979
April	٠,	848	1,155	780	924	923	1,196	1,001	1,272	905	995
May		834	1,278	780	924	941	1,194	1,013	1,326	914	1,015
June		834	1,283	775	924	922	1,279	1,000	1,349	905	1,014
July		834	1.284	773	7,006	913	1,279	1,001	1,358	904	1,075
August		334	1,279	763	1,014	911	1,352	1,014	1,370	920	1,030
September		834	1,276	775	1,014	912	1,351	1,021	1,365	925	1,033
October		840	1,286	786	1,012	919	1,351	1,023	1,395	921	F,037
November	• •	840	1,286	784	1,019	965	1,351	992	1,389	904	1,023
December	٠.	840	1,290	788	1,019	960	1,351	1,011	1,406	912	1,033
1941		1	ļ	i	1	1	Ï	<b>,</b>			1
January		846	1,289	789	1,020	948	1,346	1,017	1,406	917	1,037
February		8.17	1,287	788	1,020	941	1,347	978	1,412	887	1,016
March		847	7,298	803	1,022	950	1,347	970	1,412	683	F,012
April		856	1,329	812	1,022	973	1,347	972	1,433	888	1,021
May		858	1,329	828	1,022	1,024	1,371	971	1,454	885	1,025
June	٠	858	1,330	830	1,012	979	1,371	974	1,456	886	1,025
July		884	1,331	812	1,022	983	1,374	1,008	1,471	910	1,047
August	- +	887	1,355	822	1,042	982	1,374	1,037	1,481	933	1,068
September	• •	917	1,377	831	J, I 2 3	982	1,374	1,051	1,532	942	1,087

#### CHAPTER III.—WAGES.

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

- 1. General.—Particulars regarding operations under the Commonwealth and State Laws for the regulation of wages and hours and conditions of labour were first compiled for the year 1913, and reviews to the end of each annual period appear in previous issues of the Labour Report and in the Quarterly Summaries of Australian Statistics.
- 2. Laws Regulating Industrial Matters.—The Laws in force regulating rates of wage, hours of labour, and working conditions generally in both Commonwealth and State jurisdictions are as follows:—

#### COMMONWEALTH.

Commonwealth Conciliation and Arbitration Act 1904-1934.

National Security Act 1939-1940 and certain Regulations made thereunder

Arbitration (Public Service) Act 1920-1934.

Industrial Board Ordinance, 1036-1040 (Australian Capital Territory).

#### States.

New South Wales .. Industrial Arbitration Act 1940 (Consolidated).

Victoria .. Factories and Shops Act 1928-1939.

Queensland ... Industrial Conciliation and Arbitration Act

1932-1938.

South Australia ... The Industrial Code 1920-1937.

Western Australia .. Industrial Arbitration Act 1912-1937.

Tasmania ... Wages Board Act 1920-1938.