CHAPTER 2. WHOLESALE PRICES AND PRICE INDEXES

General

Two indexes of wholesale prices of basic materials have been compiled by the Bureau. These are: (i) The Melbourne Wholesale Price Index (now obsolete, see page 43), and (ii) The Wholesale Price (Basic Materials and Foodstuffs) Index.

Work is proceeding on the preparation of new series of wholesale price index numbers relating to materials used and articles produced by sectors of industry. The first of these new series will relate to materials used in the building industry and in manufacturing industry. (For details of new indexes published during 1969, see Section XVIII of the Appendix to this volume). To a considerable extent, these first series will constitute a currently representative replacement for the present Basic Materials and Foodstuffs Wholesale Price Index. In the interim, the existing index will continue to be compiled and published mainly to meet the needs of those who require it for special purposes. The groups of the existing index relate primarily to a commodity type classification and have never purported to represent the materials used or articles produced by defined sectors of industry.

A special purpose index 'Wholesale Price Index of Electrical Installation Materials' is also published by the Bureau (see page 41).

Wholesale Price (Basic Materials and Foodstuffs) Index

1. General

The Wholesale Price (Basic Materials and Foodstuffs) Index extends back to the year 1928 and is compiled monthly.

2. 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 the selected items 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 subsidised and the home-consumption price for wool was used to calculate the index numbers shown in the table on pages 40-1.

3. 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 of which is 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 1960 contributed by each item and group is also shown.

4. 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. The validity of the weighting and the representativeness of the index have become increasingly affected by changes in usage and in industrial structure.

WHOLESALE PRICE (BASIC MATERIALS AND FOODSTUFFS) INDEX LIST OF COMMODITIES, UNITS OF MEASUREMENT, QUANTITY-MULTIPLIERS AND PERCENTAGE OF TOTAL AGGREGATE IN 1960

		OF 10	IAL AGO	REGALE IN 1900			,
Commodity	Vait	Quantity- multiplier (weight)	Per- centage of total aggre- gate 1960	Commodity	Unit	Quantity- multiplier (weight)	Per- centage of total aggre- gate 1960
Metals and Coal— Principally Imported— Aluminium Principally Home-	ton	985	0.04	Rubber and Hides Principally Imported Rubber, crude Principally Home- produced	lb	24,214,400	
produced— Iron and steel Briquettes	ton ton	637,000 243,000 7,000	4 82 0.21	Calf skins Cattle hides Tanning bark	lb lb ton	4,455,000 57,246,000 23,000	1 09
Copper, wire bars Coal	ton	1 9.300,000	1 10.90	Total		·	2.06
Lead, soft pig Tin, ingots	ton	10,400	0.19	Building Materials—	<u> </u>		ļ
Zinc, ingots	ton	14,800	ŏ.3ĩ	Principally Imported—	1		
Total			17.10	Timber, softwoods .	1,000 sup ft	346,500	4.19
	·			Turpentine Principally Home- produced—	gal	458,000	0.06
Oils, Fats and Waxes— Principally Imported—	ľ	j i	ĺ	Bricks Cement	1,000	372,000	1.21
Coconut oil	ton	6,500 170,000	0 26	Drain-pipes	ton ft	479,000 7,270,000	0.87 0.31
Fuel oil Linseed oil	ton gal	f 2.230.000	0.66	Glass, window	100 sq ft	82,370	0.07
Lubricating oil	gal	3,960,000 21,000,000	0.45 0.26 0.41	Lime	ton	51,144	0.08
Kerosene, power Petrol	gal gal	218,000,000	5.79	Plaster Timber, hardwoods	100	53,000 2,575,000	0.21 3.20
Principally Home- produced—		1		White lead	sup ft cwt	60,000	0.12
Beeswar	lb.	169,112	0 01	Whiting	cwt	274,000	0.07
Tellow	ton	26,000	I -	Total ,	J	 -	10 39
Total		<u></u>	8.16	Foodstuffs and Tobacco-	·	·	
		1 1		Principally Imported—	l	354.000	0.54
Tegales—				Tapioca	cwt	754,860 104,460	0.54 0.26
Principally Imported— Hemp	ton	5 575	0.16	Coffee Tea	16 16	3,642,000	0.25 2 15
Kapok	16	5,575 6,160,000	0.14	Mustard . , ,	doz lb	49,340	0.02
Jute fibre	ton	874 2,275	0 02 0 04	Herrings Sild	doz lb doz	49,340 289,760 847,560	0.08 0.13
Silk, raw	1b	455,900	0 is		4-oz tina		5.36
Principally Home- produced—				Tobacco, leaf Principally Home-	1Ь	18,321,340	3.30
Cotton, raw	l lb	15,900,000 50,200,000	0 40 1.90	produced — Barley	bus	5,185,260	0.67
		l——		Maize	bus	330,640	0 05
Total			2 81	Oats	bus cwt	15,713,240 339,246	1 04 0 26
				Wheat	bus bus	41,880,980 675,980 352,682	5.44 0.16
Chemicals—		;		Sugar . , .	ton	352,682	5.29
Principally Imported— Ammonium sulphate.	ton	23,830	0.12	Boof	100 lb	7,352,520 87,245,740	14.63 1.48
Potash, muriate	ton	4,055	0.02	Mutton	lb.	458,081,320 49,923,380	3 78
Potash, sulphate Soda ash	ton	2,025 21,400	0.01 0.13	Pork Butterfat	lb lb	204,156,640	1 38 6.57
Sode, nitrate Sode, nitrate—	ton	1,100	0.01	Lard Milk	15	204,156,640 1,497,840 167,838,800	0.03 5.22
Chilean .	ton	3,600	0.02	Currants	gal	10,391,520	0.17
Sulphur Principally Home-	ton	95,500	0.62	Sultanas	lb ton	18,893,700 98,668	0 33 0 45 -
produced—				·	i——		
Arsenic Blood and bone	ton ton	1,531 34,431	0,02 0,18	Total	<u>' · · · </u>		55 74
	gal	2,374,000	0 09	All Groups—		•	
Methylated spirits		4 024	י מחת				
Soda crystals Superphosphate	ton ton	4,986 704,144	0 03 1.44	Principally Imported Principally Home-	1 : • ·	'	23.11
Methylated spirits . Soda crystals	ton	4.986		Principally Imported . Principally Home- produced	: · · ·	·	76.89 100.00

5. 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 monthly in the mimeographed statistical bulletin Wholesale Price (Basic Materials and Foodstuffs) Index and in the Monthly Review of Business Statistics.

WHOLESALE PRICE (BASIC MATERIALS AND FOODSTUFFS) INDEX NUMBERS
(Base of each Group: Year 1928 = 100)

						Bas	ic Materi	ials					is and is	
	Period			Metals and Coal	Oils, Fats and Waxes	Tox- tiles	Chemi- cals	Rub- ber and Hides	Build- ing Mat- crials	Total	Food- stuffs and To- bacco	Goods princi- pally Im- por- ted (a)	Goods princi- pally Home- pro- duced	All Groups
1928				100	100	100	100	100	100	100	100	100	100	100
1941				88	134	82	106	98	137	112	105	156	91	107
1942				97	151	93	116	104	154	125	116	180	99	119
1943				103	160	110	118	106	181	135	121	199	102	126
1944				103	160	108	118	106	183	135	123	200	104	127
1945		•	•	103	153	108	117	106	184	133	127	198	106	129
1946				102	142	119	116	104	187	131	129	194	108	129
1947				107	142	165	116	94	194	137	137	202	114	136
1948			-	129	159	234	127	100	204	157	156	217	135	155
1949	•	•	٠	160	166	254	138	96	213	175	172	225	154	172
1950	•	•	•	179	179	382	179	155	258	208	200	263	182	202
1951				235	196	475	229	248	327	261	242	299	232	248
1952				299	216	408	277	193	432	304	272	325	272	285
1953				307	217	467	279	154	394	301	286	307	285	291
1954				305	204	387	260	154	380	290	293	296	286	288
1955	•	•	٠	314	203	341	259	228	411	298	304	312	294	298
1956				322	219	346	272	240	466	316	309	332	302	309
1957			-	317	227	363	286	221	486	322	308	339	302	311
1958	•	٠	٠	311	220	272	278	197	457	304	311	318	300	304
1959	•	٠	•	306	216	279	271	273	445	303	319	308	308	308
1960	•	•	٠	316	211	278	272	278	459	308	349	308	332	327
1961				310	204	286	274	238	460	303	331	301	319	314
1962				306	198	290	268	216	460	298	318	296	309	306
1963				303	196	338	249	176	473	298	329	300	316	312
1964	•	•		302	195	337	234	175	516	303	339	303	324	319
1965	٠	•	•	310	199	296	245	198	531	308	355	304	338	330
1966				309	207	313	298	236	533	319	372	309	355	344
1967				312	209	286	321	185	536	318	386	313	363	350
1966—														ļ
Janu				306	208	313	269	235	530	314	351	308	338	331
Febr			•	308	208	314	278	246	531	317	357	309	343	335
Mar		•	٠	308	208	318	287	269	531	319	376	309	357	346
Apri		•	٠	307	207	322	287	266	531	319	372	310	354	344
May June		•	•	305 306	207	322 322	287 287	255	532	317	369 367	309 308	351 350	341
June July	•	٠	•	306	207	322	304	230	532 532	317	374	308	356	344
Augi	nst	•	•	311	207	318	317	234	532	322	382	310	363	350
	ember	÷	•	312	208	309	315	223	536	321	381	309	363	349
Octo			:	311	208	299	315	207	538	320	379	310	360	348
	ember			312	207	299	315	212	538	320	379	310	360	348
Dece	mber			313	206	298	315	223	538	320	378	311	360	348

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

WHOLESALE PRICE (BASIC MATERIALS AND FOODSTUFFS) INDEX NUMBERS—continued

				Bas	ic Materi	els]		Materia oodstuf	
Period	ı	 Metats and Coat	Oils, Fats and Waxes	Tex- tiles	Chemi- cals	Rub- ber and Hides	Build- ing Mat- erials	Total	Food- stuffs and To- bacco	Goods princi- pally Im- por- ted (4)	Goods princi- pally Home- pro- duced	Ali Groups
1967—												
January		315	206	294	315	212	538	320	377	310	359	347
February	·	315	207	298	315	203	537	320	376	312	357	346
March .		313	206	293	315	210	537	319	381	312	360	348
April .		312	206	293	315	210	537	319	379	311	359	347
May .		311	208	297	315	202	537	319	381	312	360	348
June .		311	207	292	315	182	532	317	396	311	370	355
July .		310	207	287	320	172	534	316	404	311	375	359
August .		310	208	274	328	167	535	316	409	311	378	361
September		310	214	273	328	168	535	318	400	315	371	357
October		310	213	273	328	176	536	318	377	314	356	345
November		311	212	278	328	169	536	318	375	316	354	345
December		313	212	281	328	154	536	318	376	315	355	345

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

Wholesale Price Index of Electrical Installation Materials

General

This special purpose index was introduced in 1964 and index numbers, from August 1959 onwards, have been published at quarterly intervals*. In addition to its use in connection with the Bureau's constant price estimates in the national accounting field, the index has a direct value as a measure of changes in the aggregate cost of materials used in an important part of the building industry (other than house-building).

2. Commodities and grouping

The items in this index have been selected as representative of materials used in electrical installation in structures such as hospitals, schools, factories and multi-storeyed commercial buildings and flats. These items are divided into three main groups for which separate indexes in addition to the 'All Groups' index are compiled. The combination of materials selected is fixed as to quantity and quality. A list of the components of the index is set out below with the percentage contribution of each to the All Groups index in the reference base year 1959-60.

3. Price quotations

The items are priced as at the middle of the month for which index numbers are published. The basis of pricing is the price to electrical contractors, delivered on site or into store, metropolitan area Sydney and Melbourne. The price series used relate to specific standards for each item and in some cases are combinations of prices for different makes, types, etc.

The units of quantity specified as the basis for collecting prices are representative lots normally purchased by electrical contractors, inclusive of quantity discounts and packing and quantity extras, etc.

4. Method of construction

The index is a fixed-weights index with the reference base: Year 1959-60 = 100. In general, the weights were derived from information relating to the values of materials used in selected

^{*} Since February 1969 published monthly.

representative projects in Sydney and Melbourne during the three years 1960-61 to 1962-63. The projects selected for this purpose had a minimum electrical materials and labour content of \$10,000. Selected representative items carry the weights of similar items not directly priced.

The index is compiled by the method known as 'the weighted arithmetic mean of price relatives'. Each quarter*, base period percentage value weights are applied to indexes of price movement relative to 1959-60.

WHOLESALE PRICE INDEX OF ELECTRICAL INSTALLATION MATERIALS

Composition and Weighting Pattern as at Reference Base Year: 1959-60

	троп	ents					Percentar to All		
1. CONDUCTORS GROUP Mains—		•	•	<u>.</u>					40.00
Insulated cables							14.79		
Glands	•	•		•	•	•	0.70		
Bare copper strang	ď	Ċ	·	-	•	·	0.50		
Copper bus-bar	.						3.50		
Copport Can	-							19.49	
Circuits									
Insulated cables ar	nd wit	Te .					19.08		
Bare copper strang	d.						1.43		
• •							:	20.51	
2. CONDUIT AND ACCESS	ORIES	GRO	UP		,				25.00
Conduit and Ducting	g—								
Metal conduit					,		10.79		
Metal and plastic	ductir	g					9.46		
							! 	20.25	
Accessories—									
Metal and plastic				•		٠	2.59		
Metal and plastic	access	ories	Oth	ıer	•		2.16	4.75	
3. SWITCH-BOARD AND S Bakelite Accessories- Mounting blocks	_	I-GEA	r Ma	TERIA	L Gro	OUP	0.65		35.00
Switches .	•	•	•	•	•	•	1.40		
	•	•	•	•	•	•	0.10		
Terminal hoves							0.10	2.15	
Terminal boxes	•	•	٠	•	•			Z. 13	
	ients a	nd L	amps		·			2.13	
Fluorescent Compon	ents a	nd L	.amps	· 			1.37	2.13	
Fluorescent Compon Fluorescent tubes	and s	nd L tarter	amps	· :	:		1.37	2.13	
Fluorescent Compon	and s	ind L tarter	amps	· :	:	•		1.95	
Fluorescent Compon Fluorescent tubes	and s	nd I tarter	amps	· :	:	:			
Fluorescent Compon Fluorescent tubes Incandescent lamp	and s	and L tarter	amps	· :	•	:			
Fluorescent Compon Fluorescent tubes Incandescent lamp Iron Clad Accessorie	and s	and L tarter	amps	· ·	:	•	1.67 0.64		
Fluorescent Compon Fluorescent tubes Incandescent lamp Iron Clad Accessorie Switch plug .	and so	and L tarter	amps	· : :			1.67	1.95	
Fluorescent Compon Fluorescent tubes Incandescent lamp Iron Clad Accessorie Switch plug . Plug top . Other accessories	and so	tarte	rs .	:			1.67 0.64		
Fluorescent Compon Fluorescent tubes Incandescent lamp Iron Clad Accessorie Switch plug . Plug top . Other accessories Switch-board Access	and so	tarte	rs .	:		•	1.67 0.64 1.30	1.95	
Fluorescent Compon Fluorescent tubes Incandescent lamp Iron Clad Accessorie Switch plug . Plug top Other accessories Switch-board Access Mild steel .	and so	tarte	rs .	:	:		1.67 0.64 1.30	1.95	
Fluorescent Compon Fluorescent tubes Incandescent lamp Iron Clad Accessorie Switch plug . Plug top . Other accessories Switch-board Access Mild steel . Aluminium bar	and so	tarte	rs .	:	:		1.67 0.64 1.30 3.07 0.86	1.95	
Fluorescent Compon Fluorescent tubes Incandescent lamp Iron Clad Accessories Switch plug . Plug top Other accessories Switch-board Access Mild steel . Aluminium bar Contactors .	and so	tarte	rs .	:			1.67 0.64 1.30 3.07 0.86 4.90	1.95	
Fluorescent Compon Fluorescent tubes Incandescent lamp Iron Clad Accessories Switch plug . Plug top . Other accessories Switch-board Access Mild steel . Aluminium bar Contactors . Circuit breakers	and so	tarte	rs .	:			1.67 0.64 1.30 3.07 0.86 4.90 11.00	1.95	
Fluorescent Compon Fluorescent tubes Incandescent lamp Iron Clad Accessories Switch plug . Plug top Other accessories Switch-board Access Mild steel . Aluminium bar Contactors .	and so	tarte	rs .	:			1.67 0.64 1.30 3.07 0.86 4.90 11.00 7.46	1.95	

5. Index numbers

Index numbers for each group of items and for all groups combined for the index of wholesale prices of electrical installation materials are given in the following table. Current index numbers are published quarterly* in the mimeographed statistical bulletin Wholesale Price Indexes—Price Index of Electrical Installation Materials.

WHOLESALE PRICE INDEX OF ELECTRICAL INSTALLATION MATERIALS

GROUPS AND ALL GROUPS—INDEX NUMBERS (Base of each Index: Year 1959-60 = 100.0 (a))

Period	Conductors	Conduit and Accessories	Switch-board and Switch-gear Material	All Groups
Year—				
1959-60	100.0	100.0	100.0	100.0
1960-61	99.5	102.3	100.9	100.7
1961-62	98.7	102.8	99.8	100. l
1962-63	96.8	103.6	100.5	99.8
1963-64	93.2	103.7	100.8	98.5
1964-65	110.6	104.6	105.2	107.2
1965–66	105.8	104.2	106.6	105.7
1966-67	120.2	105.8	109.2	112.8
1962-63-November .	97.9	103.6	100.6	100.3
February .	97.9	103.6	100.6	100.3
May	93.4	103.6	100.7	98.5
1963-64-August .	93.3	103.4	100.8	98.5
November .	93.3	103.8	100.8	98.6
February .	93.5	103.8	100.8	98.7
May .	92.6	103.8	100.9	98.3
1964-65-August .	96.4	104.4	103.8	101.0
November .	103.3	104.4	104.7	104.0
February .	121.3	104.4	106.0	111.7
May	121.3	105.1	106.3	112.0
1965-66-August .	104.2	105.3	106.3	105.2
November .	104.3	104.1	106.3	105.0
February .	108.3	103.7	106.9	106.6
May	106.5	103.8	106.9	106.8
1966-67-August .	124.1	104.5	106.9	113.2
November .	122.6	106.2	109.8	114.0
February .	122.6	106.3	110.1	114.2
May	111.3	106.3	110.0	109.6
1967-68-August	111.5	106.3	110.3	109.8
November .	123.1	105.3	112.4	114.9

(a) Figures are shown to one decimal place to avoid distortions that would occur in rounding off the index numbers to the nearest whole number.

Melbourne Wholesale Price Index

An index of Melbourne wholesale prices was first computed in 1912. It related 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 was varied except for some changes in the building materials group in 1949. The series has some historical significance as a measure of changes in the prices, since the year 1861, of its component items combined in the proportions in which they were in common use about the year 1910. A description of the index and a list of commodities included in it were published in Labour Report No. 38, 1949, pages 43-5. Index numbers up to the year 1961, the last period for which the index was compiled, are shown in Labour Report No. 49, page 42.

International comparisons: Wholesale price index numbers

The following table gives index numbers of wholesale prices during the period 1963 to December 1967, for Australia and other countries. Except where otherwise noted, the average prices in each country for the year 1963 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: 1963 = 100)

Period

AUSTRALIA

BELGIUM

BRAZIL

CANADA

Denmark

FRANCE

GERMANY

INDIA

(Fed. Rep.)

IRELAND(a)

1966—
Dec. Qtr
1967—
March Qtr
June
Sept.
Dec.

===

<u>3</u>222

12 1 2 2 2 E

\$

<u>8</u>2489

Dec.		June	1967—	1966— Dec. Qu	1967	1966	1965	1964	1963	
• •	•	Ž	į	Ş	٠	•	•	•	•	Pg
٠.	•	•		•	•	•	٠	•	•	Period
• •	•	• •		•	٠	•	•	•	•	}
	•			٠		٠				<u> </u>
107	Ř	3 5	≅	106	106	-107-	ខ	103	8	ÎTALY
88	5	505	<u>;</u>	፯	105	103	-101-	1 00	198	Japan (Tokyo)
115	1;	115	<u>-</u>	115	115	15	110	198	\$	NETHERLANDS
108	2 2	<u> </u>	ž	106	107	107	<u>10</u> 6	105	2	New Zealand
113	2 5	3 =	Ē	Ξ	112	110	<u>.</u>	105	8	Norway
121	;	1.	=	113	117	112	107	ឪ	100	PHILIPPINES (Manila)
125	3	<u>=</u> =	:	=	112	110	<u>8</u>	<u>5</u>	1	South Aprica(c)
113	: -	55	;	† E2	112	112	<u>\$</u>	<u>ş</u>	<u> </u>	Sweden
1105	ខែ	107		107	107	108	<u>2</u>	<u>5</u>	3	UNITED KINGDOM
<u> </u>				 \$	106	<u> </u>	<u>.</u>	Ē.	 ≨	UNITED STATES OF AMERICA

(e) Home-produced goods only.

NOTE. The symbol - on each side of an index number (e.g. -95-) indicates that two series have been linked at that period.