

**PRICE INDEXES OF MATERIALS USED  
IN MANUFACTURING INDUSTRIES AUSTRALIA**

EMBARGOED UNTIL 11:30AM THURS 22 SEPTEMBER 1994

**JULY KEY FIGURES**

	<i>% change Jun 94 to Jul 94</i>	<i>% change Jul 93 to Jul 94</i>
<b>Manufacturing Division</b>	<b>0.9</b>	<b>-1.7</b>
Imported materials	1.5	-2.5
Home produced materials	0.5	-1.2

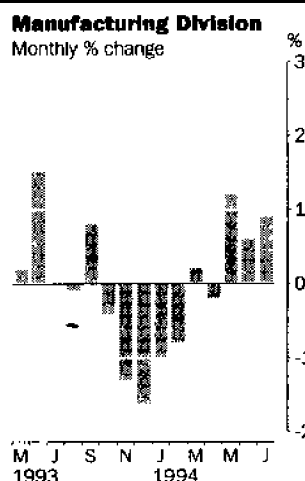
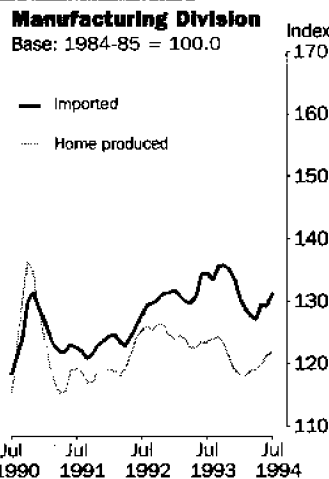
**JULY KEY POINTS**

**MANUFACTURING DIVISION INDEX**

- The increase in the Manufacturing division index in July was caused mainly by higher oil and wheat prices.

**MAJOR MOVEMENTS**

- Continuing higher world prices led to increases for home produced crude petroleum (+4.8%) and imported crude petroleum and condensates (+5.7%).
- Supply shortages in the wake of the drought have pushed wheat prices up 10.9 per cent.
- Prices for components for machinery and equipment rose 1.7 per cent, mainly due to the fall in the value of the Australian dollar against the Japanese yen and the major European currencies during July.
- Chemicals and chemical based materials prices increased 1.8 per cent.



**INQUIRIES**

- For further information about these and related statistics, contact Geoff Brown on 06 252 5348, or any ABS Office.

**P R I C E I N D E X N O T E S**

**FORTHCOMING ISSUES**

<i>ISSUE</i>	<i>RELEASE DATE</i>
August 1994	21 October 1994
September 1994	21 November 1994
October 1994	20 December 1994

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**CHANGES IN THIS ISSUE**

There are no changes in this issue.

\* \* \* \* \*

**IAN CASTLES**  
**AUSTRALIAN STATISTICIAN**

MANUFACTURING DIVISION INDEX<sup>1</sup>

## SOURCE OF MATERIALS.....

<i>Period</i>	<i>Manufacturing Division</i>	<i>Imported materials</i>	<i>Home produced materials</i>
<b>1991-92</b>	120.7	123.3	119.3
<b>1992-93</b>	126.6	130.6	124.6
<b>1993-94</b>	124.6	131.7	120.9
<b>1993</b>			
May	125.3	130.7	122.5
June	127.2	134.3	123.4
July	127.2	134.5	123.4
August	127.1	133.3	123.9
September	128.1	135.5	124.3
October	127.6	135.8	123.2
November	126.0	135.2	121.1
December	124.0	133.6	119.0
<b>1994</b>			
January	122.7	130.7	118.4
February	121.7	128.8	118.0
March	122.0	127.7	119.0
April	121.7	127.0	118.9
May	123.2	129.4	119.8
June	124.0	129.2	121.3
July	125.1	131.1	121.9

<sup>1</sup> Base of each index: 1984-85 = 100.0

MANUFACTURING DIVISION INDEX, Percentage changes

SOURCE OF MATERIALS.....

Period                      Manufacturing Division                      Imported materials                      Home produced materials

PERCENTAGE CHANGE (from previous year)

<b>1991-92</b>	-2.5	-1.1	-3.2
<b>1992-93</b>	4.9	5.9	4.4
<b>1993-94</b>	-1.6	0.8	-3.0

PERCENTAGE CHANGE (from corresponding month of previous year)

<b>1993</b>			
May	2.4	5.2	0.9
June	2.1	6.8	-0.5
July	0.8	5.3	-1.6
August	0.0	3.0	-1.6
September	0.9	4.5	-0.9
October	-0.2	4.1	-2.5
November	-1.5	3.0	-4.0
December	-2.1	1.8	-4.6
<b>1994</b>			
January	-3.2	-0.8	-4.5
February	-3.9	-1.5	-5.3
March	-3.1	-1.7	-3.9
April	-2.6	-2.0	-3.0
May	-1.7	-1.0	-2.2
June	-2.5	-3.8	-1.7
July	-1.7	-2.5	-1.2

PERCENTAGE CHANGE (from previous month)

<b>1993</b>			
May	0.2	0.8	-0.1
June	1.5	2.8	0.7
July	0.0	0.1	0.0
August	-0.1	-0.9	0.4
September	0.8	1.7	0.3
October	-0.4	0.2	-0.9
November	-1.3	-0.4	-1.7
December	-1.6	-1.2	-1.7
<b>1994</b>			
January	-1.0	-2.2	-0.5
February	-0.8	-1.5	-0.3
March	0.2	-0.9	0.8
April	-0.2	-0.5	-0.1
May	1.2	1.9	0.8
June	0.6	-0.2	1.3
July	0.9	1.5	0.5

MANUFACTURING DIVISION INDEX, Contribution of Categories of Materials<sup>1</sup>

Category	June 1994	July 1994	Change
Manufacturing Division	124.0	125.1	1.1
IMPORTED MATERIALS: Contribution to Manufacturing Division Index (index points)			
All imported materials	44.63	45.28	0.65
Crude petroleum and condensates	3.74	3.96	0.22
Textile fibres, yarns and fabrics	5.75	5.87	0.12
Pulp, paper and materials made of paper	3.06	3.07	0.01
Chemicals and chemical based materials	9.04	9.21	0.17
Basic iron and steel	2.64	2.64	0.00
Components for machinery and equipment	10.51	10.69	0.18
Other imported materials	9.89	9.84	-0.05
HOME PRODUCED MATERIALS: Contribution to Manufacturing Division Index (index points)			
All home produced materials	79.40	79.80	0.40
Live animals	18.38	18.18	-0.20
Other agricultural materials	17.15	16.90	-0.25
Hardwood and softwood logs	1.89	1.87	-0.02
Fish, prawns and lobsters	2.18	2.18	0.00
Metal ores and concentrates	9.87	9.98	0.11
Coal, crude petroleum and gas	18.79	19.50	0.71
Electricity	5.78	5.67	-0.11
Other home produced materials	5.36	5.52	0.16

<sup>1</sup> For an explanation of this table see paragraph 16 of the Explanatory Notes

MANUFACTURING DIVISION INDEX, Selected Categories of Imported Materials<sup>1</sup>

Period	Agricultural materials	Crude petroleum and condensates	Mining materials	Textile fibres, yarns and fabrics	Pulp, paper and materials made of paper	Chemicals and chemical based materials	Basic iron and steel	Components for machinery and equipment	Manufactured materials	All imported materials
<b>1991-92</b>	85.0	61.8	70.2	140.0	124.5	162.6	128.2	145.5	141.3	123.3
<b>1992-93</b>	89.6	67.2	72.5	148.7	125.1	165.4	125.6	162.7	150.2	130.6
<b>1993-94</b>	92.7	57.2	<b>63.1</b>	<b>152.6</b>	121.8	162.9	123.3	178.4	154.4	131.7
<b>1993</b>										
May	93.7	64.8	70.2	149.7	123.6	161.2	124.1	169.1	150.9	130.7
June	91.2	65.0	70.7	152.6	121.5	170.0	122.9	176.6	156.7	134.3
July	90.8	63.3	69.2	153.2	124.6	169.0	122.9	178.3	156.4	134.5
August	91.5	59.4	64.8	152.8	125.0	164.9	122.8	180.9	156.1	133.3
September	92.1	61.9	67.2	154.2	123.7	168.4	123.9	183.4	158.3	135.5
October	93.0	62.0	67.6	155.0	124.8	167.3	123.8	184.6	158.5	136.8
November	93.0	62.1	67.6	155.5	125.1	165.8	124.3	183.5	157.8	135.2
December	92.6	57.5	63.5	154.0	123.5	164.7	124.4	182.6	156.8	133.6
<b>1994</b>										
January	92.5	52.5	59.0	152.4	123.0	161.4	124.4	178.4	154.3	130.7
February	91.3	54.3	60.3	149.5	120.9	159.0	123.3	173.0	151.4	128.8
March	91.8	51.7	<b>58.1</b>	148.4	118.9	156.8	122.8	174.6	150.5	127.7
April	92.2	49.8	56.7	150.1	117.2	156.3	122.7	174.0	150.0	127.0
May	92.9	55.1	<b>61.1</b>	153.6	116.7	161.2	122.4	174.7	151.9	129.4
June	98.8	56.4	62.2	152.0	118.0	159.5	121.7	172.6	151.0	129.2
July	95.7	59.6	64.8	155.2	118.4	162.4	121.6	175.5	152.9	131.1

<sup>1</sup> Base of each index: 1984-85 = 100.0

**MANUFACTURING DIVISION INDEX, Selected Categories of Home Produced Materials<sup>1</sup>**

<i>Period</i>	<i>Live animals</i>	<i>Other agricultural materials</i>	<i>Hardwood and softwood logs</i>	<i>Fish, prawns and lobsters</i>	<i>Agricultural, forestry and fishing materials</i>	<i>Metal ores and concentrates</i>	<i>Coal, crude petroleum and gas</i>	<i>Mining materials</i>	<i>Electricity</i>	<i>All home produced materials</i>
<b>1991-92</b>	120.8	131.1	155.8	182.6	128.7	139.2	93.3	108.7	133.0	119.3
<b>1992-93</b>	129.5	135.3	155.3	198.9	135.2	141.6	99.3	113.6	133.2	124.6
<b>1993-94</b>	139.9	136.0	154.4	250.6	141.9	130.5	85.2	100.4	132.8	120.9
<b>1993</b>										
May	124.9	137.1	154.2	205.8	133.9	136.2	96.7	110.5	132.7	122.5
June	130.6	136.7	156.1	230.9	137.2	133.9	96.1	109.6	132.9	123.4
July	136.6	135.0	154.1	240.7	139.6	134.6	93.6	107.3	133.6	123.4
August	139.7	135.6	155.0	250.2	141.7	131.7	93.6	106.6	133.3	123.9
September	140.9	134.8	153.7	254.4	141.9	129.6	95.1	107.2	133.2	124.3
October	138.6	133.6	154.2	255.6	140.4	128.7	94.3	106.4	133.1	123.2
November	139.1	133.8	154.6	260.9	140.9	126.8	88.2	101.7	133.3	121.1
December	140.6	135.2	154.0	251.6	142.0	126.3	81.1	96.6	133.0	119.0
<b>1994</b>										
January	139.7	136.3	153.4	235.9	141.5	129.0	79.2	95.9	133.0	118.4
February	139.1	134.8	153.9	237.3	140.6	129.8	78.9	95.9	132.5	118.0
March	142.6	136.9	154.1	244.4	143.4	130.1	78.2	95.5	132.1	119.0
April	143.4	136.5	155.1	241.3	143.6	130.8	77.6	95.2	132.2	118.9
May	140.2	138.0	155.3	251.6	143.0	132.8	80.2	97.5	131.9	119.8
June	138.0	141.0	155.0	283.1	144.1	136.0	82.0	99.5	131.9	121.3
July	136.5	139.0	153.1	283.7	142.5	137.5	85.1	102.5	129.5	121.9

<sup>1</sup> Base of each index: 1984-85 = 100.0

MANUFACTURING SUBDIVISION INDEXES<sup>1</sup>

Period	Food, beverages and tobacco (21)	Textiles (23)	Clothing (244-245)	Footwear (246)	Wood, wood products and furniture (25)	Paper, paper products, printing and publishing (26)	Basic chemicals and other chemical products (275-276)
<b>1991-92</b>	128.8	126.4	146.2	143.5	148.4	137.5	137.7
<b>1992-93</b>	134.3	128.2	151.3	142.9	153.9	138.0	137.0
<b>1993-94</b>	138.7	130.7	150.8	147.2	161.5	135.4	134.1
<b>1993</b>							
May	133.9	123.0	152.4	145.3	158.2	136.9	132.1
June	136.1	126.7	154.3	145.1	162.3	136.1	136.2
July	137.8	125.8	154.3	145.2	162.3	137.7	136.3
August	139.2	127.5	153.6	145.0	162.7	137.7	133.9
September	139.6	127.8	155.6	146.9	163.4	137.0	135.5
October	138.4	128.9	154.2	147.2	163.0	137.8	137.1
November	138.4	131.0	151.0	146.7	162.6	138.0	136.7
December	139.0	130.9	150.3	147.2	163.8	136.8	134.9
<b>1994</b>							
January	138.3	129.9	149.2	146.9	162.5	136.0	133.4
February	137.3	129.6	147.6	146.7	161.0	134.5	132.8
March	139.0	131.2	146.9	147.3	161.3	133.2	131.0
April	139.0	133.1	148.0	147.9	158.8	132.1	131.4
May	138.3	136.2	149.3	148.1	158.8	131.9	133.5
June	139.6	136.8	149.4	151.3	157.3	132.4	133.2
July	138.1	139.6	150.2	154.0	156.5	133.1	133.2

<sup>1</sup> Base of each index: 1984-85 = 100.0



MANUFACTURING SUBDIVISION INDEXES<sup>1</sup> *continued*

Period	Petroleum and coal products (277-278)	Non-metallic mineral products (28)	Basic metal products (29)	Fabricated metal products (31)	Transport equipment (32)	Other machinery and equipment (33)	Miscellaneous manufacturing (34)
<b>1991-92</b>	81.6	147.2	136.5	<b>146.9</b>	145.3	140.2	125.4
<b>1992-93</b>	88.2	149.0	135.5	<b>146.3</b>	154.1	143.1	131.5
<b>1993-94</b>	73.8	140.3	125.4	<b>146.0</b>	164.0	144.3	133.2
<b>1993</b>							
May	85.4	148.2	131.0	144.9	158.1	142.9	133.4
June	84.9	147.8	130.1	145.6	161.9	144.2	134.3
July	82.4	141.9	130.4	145.7	163.5	144.3	131.8
August	81.4	141.3	126.8	146.4	165.0	145.1	132.9
September	83.3	140.6	125.4	146.4	166.7	145.8	134.1
October	82.7	140.8	125.0	145.7	167.5	144.6	133.5
November	77.6	140.4	123.4	145.7	166.5	144.2	133.3
December	70.5	140.4	122.7	145.8	165.8	144.3	133.6
<b>1994</b>							
January	67.7	139.8	124.1	146.3	164.0	144.0	132.6
February	68.0	139.7	124.5	146.0	161.2	143.5	132.2
March	66.7	139.4	124.4	146.1	161.9	143.9	133.4
April	65.7	139.5	124.5	145.4	161.7	143.6	133.3
May	69.2	140.3	125.6	146.1	162.7	143.8	133.2
June	70.9	140.0	128.0	146.6	161.6	144.5	135.0
July	74.3	143.5	128.6	147.3	163.7	145.2	135.2

<sup>1</sup> Base of each index: 1984-85 = 100.0

MANUFACTURING SUBDIVISION INDEX, Selected Metallic Materials<sup>1</sup>

## USED IN THE FABRICATED METAL PRODUCTS INDUSTRY.....

<i>Period</i>	<i>Iron and Steel</i>	<i>Aluminium</i>	<i>Copper and brass</i>	<i>Zinc</i>
<b>1991-92</b>	146.4	141.0	171.0	143.6
<b>1992-93</b>	145.4	135.8	180.0	155.0
<b>1993-94</b>	147.1	130.8	168.6	138.7
<b>1993</b>				
May	145.8	130.1	165.6	142.8
June	146.4	129.7	169.0	142.3
July	146.4	130.8	171.0	141.1
August	146.5	134.8	173.4	138.8
September	146.5	135.1	174.5	135.8
October	146.5	133.4	163.1	138.1
November	147.0	132.3	160.2	140.0
December	147.4	130.1	159.8	140.5
<b>1994</b>				
January	147.8	130.5	163.0	143.2
February	147.7	129.6	164.9	142.1
March	147.6	131.0	167.0	138.0
April	147.6	125.3	166.5	136.0
May	147.4	128.7	174.4	134.5
June	147.3	127.9	185.1	136.5
July	147.3	132.1	189.4	136.1

<sup>1</sup> Base of each index: 1984-85 = 100.0

# EXPLANATORY NOTES

## INTRODUCTION

- 1** This publication presents index numbers that are based on materials (including fuels) used by establishments classified to designated 'sectors' of Australian manufacturing industry — the Price Indexes of Materials Used in Manufacturing Industries. They are calculated on the reference base 1984–85 = 100.0.
- 2** Index numbers for the current month and the previous month are preliminary and subject to revision.

## SCOPE

- 3** The indexes are on a 'net sector' basis; that is, each relates only to those materials which are used in the defined 'sector' of Australian manufacturing industry and which have been produced by establishments outside that 'sector'. These establishments are either Australian manufacturing establishments classified to other manufacturing 'sectors' or to other divisions of Australian industry (eg 'Agriculture, forestry, fishing and hunting' or 'Mining') or are overseas producers (including overseas manufacturing establishments).

## CLASSIFICATION

- 4** The Manufacturing Division index measures changes in prices of materials (including fuels) used by establishments classified to Australian Standard Industrial Classification (ASIC) Division C, Manufacturing, which have been purchased or transferred in from establishments outside the Manufacturing Division. It excludes semi-processed materials which have been produced by establishments within the Manufacturing Division and sold or transferred to other establishments within the Manufacturing Division. The index reflects purchases of materials at the point of entry to the Manufacturing Division.
- 5** The indexes for ASIC Subdivisions and the indexes for ASIC Groups and measure changes in prices of materials (including fuels) used by establishments classified to each defined ASIC manufacturing 'sector' which have been purchased or transferred in from establishments outside that 'sector'. These exclude semi-processed materials which have been produced by establishments within the specific 'sector' and sold or transferred to establishments in the same 'sector'. The pricing and weights for these net 'sector' indexes therefore reflect purchases and transfers in at the point of entry to the respective ASIC Subdivision, or ASIC Group or Group combination.

## ITEMS AND WEIGHTS

- 6** The indexes are fixed weights indexes. The items included in the indexes were selected on the basis of values of materials used in 1977–78. The selected items were allocated weights in accordance with the estimated value of manufacturing usage in 1977–78 except for the following:
  - Fuels (e.g. crude petroleum, natural gas and electricity), which were allocated weights on the basis of estimated usage in 1982–83;
  - Cereal grains, which were allocated weights based on estimated manufacturing usage in 1977–78 and 1978–79; and
  - Live animals, which were allocated weights based on the average value of slaughterings in 1981–82, 1982–83 and 1983–84.
- 7** Many of the selected items carry not only the weight of directly priced materials but also the weight of unpriced materials whose prices are considered to move similarly to those of directly priced materials.

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ITEMS AND WEIGHTS (continued)

**8** For the Manufacturing Division index, individual materials have been grouped into two broad categories: Imported materials and Home produced materials. Within each of these categories materials have been grouped on the basis of ASIC industry of origin (i.e. the industry in which, in accordance with the classification rules of ASIC, the materials are primarily produced in Australia or the industry in which the materials would be classified had the material been produced in Australia). Percentage contributions, in 1984-85, of individual materials to the relevant commodity groups and to the Manufacturing Division as a whole were shown in Table A1 in the Appendix to the December 1985 issue of this publication.

**9** Percentage contributions, in 1984-85, of each material to each 'sector' index were shown in Table A2 in the Appendix to the December 1985 issue of this publication.

PRICE MEASUREMENT

**10** For those materials subject to significant price variation throughout the month (e.g. agricultural materials, and metal ores and concentrates) average monthly prices are used in compiling these indexes. Other materials are priced at the mid point in the month. Prices of home produced materials are generally obtained from manufacturers who use the material but in some cases prices are obtained from suppliers (producers or wholesalers). Prices of imported materials are generally obtained from importers.

**11** In concept, pricing for these indexes is at the point at which the material physically enters the defined manufacturing 'sector'. Therefore, as far as possible prices are on a 'delivered into store' basis.

**Transferred Goods**

Transfers which do not take place on the open market present problems for the measurement of price change. An example is where a vertically integrated enterprise extracts a mineral (mining activity) and also processes it (manufacturing activity). Since the material is transferred from one part of the enterprise to another there is usually no transaction price. In such instances various methods of imputing changes in market prices have been adopted. Depending on circumstances and the availability of data, these methods include using changes in opportunity cost (based, for example, on the price of the material in an established market) or changes in the cost (based on expenses actually incurred in obtaining the material). Imputations of this kind enter partly into price series for materials such as nickel concentrates, silver-lead concentrates and zinc concentrates.

**Seasonal Materials**

In the case of some seasonal materials such as fruit and vegetables, where deliveries do not occur over the whole year, the previous season's prices are repeated for the months outside the selling season until the subsequent season's prices become operative.

**Estimated Prices**

For items such as sugar cane, where prices are only determined annually, the final prices are sometimes not known until the relevant season or contract period has been at least partly completed. Estimates of the current season or contract period price are used in index calculations until the final price becomes available. Incorporation of such final prices may involve lengthy revisions to index numbers.

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PRICE MEASUREMENT (continued)

**Electricity** The index numbers for electricity published in Table 4 are based on prices paid for electricity used by a representative sample of manufacturing establishments. Both 'tariff' prices and special contract prices are included in the calculations.

INDEX NUMBERS

**12** Index numbers for financial years are simple averages of monthly index numbers.

REVISIONS

**13** Index numbers for the current month and the previous month are preliminary and subject to revision. From time to time index numbers for earlier months may also be revised. This will occur whenever the ABS obtains more complete information or discovers that incorrect prices have been used.

ANALYSIS OF INDEX CHANGES

**14** Care should be exercised when interpreting month-to-month movements in the indexes as short-term movements do not necessarily indicate changes in trend.

**15** Movements in indexes from one period to another can be expressed either as changes in 'index points' or as percentage changes. The following example illustrates the method of calculating index points changes and percentage changes between any two periods:

Manufacturing Division index numbers —		
July 1994	125.1	(see Table 1)
less July 1993	127.2	(see Table 1)
Change in index points	-2.1	
Percentage change	$\frac{-2.1}{127.2} \times 100 = -1.7$	

**16** Table 3 provides an analysis of the contributions which selected categories of materials make to the total Manufacturing Division index. For example, Live animals contributed 18.18 index points to the total Manufacturing Division index number of 125.1 for July 1994 and -0.20 index points to the net change of +1.1 index points. A further explanation is provided in the Appendix to the February 1988 issue of this publication.

FURTHER INFORMATION

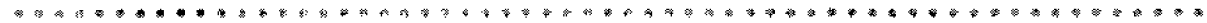
**17** The December 1985 issue of this publication contains a more detailed description of the indexes and their relationship with previous indexes.

**18** Further information on the indexes is presented in the publication *Producer and Foreign Trade Price Indexes: Concepts, Sources and Methods* (6419.0).

RELATED PUBLICATIONS

**19** Users may also wish to refer to the following publications which are available from ABS Bookshops:

- *Price Index of Materials Used in Coal Mining, Australia* (6415.0)
- *Price Index of Copper Materials, Australia* (6410.0)
- *Price Indexes of Articles Produced by Manufacturing Industry, Australia* (6412.0)
- *Price Index of Materials Used in Building Other than House Building, Six State Capital Cities and Canberra* (6407.0)
- *Price Index of Materials Used in House Building, Six State Capital Cities and Canberra* (6408.0)
- *Import Price Index, Australia* (6414.0)
- *Export Price Index, Australia* (6405.0)



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