

**Information Paper** 

Implementation of the Review of the Producer and International Trade Price Indexes

Australia

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# Implementation of the Review of the Producer and International Trade Price Indexes

# Australia

2012

Brian Pink Australian Statistician

AUSTRALIAN BUREAU OF STATISTICS

EMBARGO: 11.30AM (CANBERRA TIME) FRI 28 SEP 2012

#### ABS Catalogue No. 6427.0.55.005

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#### INQUIRIES

 For further information about these and related statistics, contact the National Information and Referral Service on 1300 135 070 or Michael Morgan on Canberra (02) 6252 5121.

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### PREFACE .....

This information paper presents the implementation of the outcomes from the review of the Australian Producer Price Indexes (PPIs) and International Trade Price Indexes (ITPIs) undertaken by the Australian Bureau of Statisics (ABS).

A major review of the Producer and International Trade Price Indexes was conducted at the end of 2011 where submissions were sought from the public on the issues presented in the *Information Paper: Review of the Producer and International Trade Price Indexes, 2011* (cat. no. 6427.0.55.003). The outcome of the review of the Producer Price Indexes and International Trade Price Indexes was set out in the *Information Paper: Outcome of the Review of the Producer and International Trade Price Outcome of the Review of the Producer and International Trade Price Indexes, 2012* (cat. no. 6427.0.55.004), released on 6 March 2012.

The decisions about changing any aspect of the Producer and International Trade Price Indexes were made following careful consideration. The decisions which have been made represent an on-balance view of the type of indexes required to improve the quality of macroeconomic statistics, now and into the next decade.

This information paper outlines the changes to the PPIs and ITPIs for the September quarter 2012 and details the changes to be implemented in future quarters. Details of the weighting patterns for the PPIs that will be adopted can be found in the *Information Paper: Producer Price Indexes Weighting Patterns*, *2012* (cat. no. 6427.0.55.006).

A mock–up of the revised format of the September quarter 2012 issue of the *Producer Price indexes, Australia* (cat. no. 6427.0) for release on 2 November 2012, is reproduced in Appendix 3 (available to download on the ABS website *<http://www.abs.gov.au>*).

A detailed description of the PPIs concepts and the methodology underlying the PPIs can be found in the *Information Paper: Producer and International Trade Price indexes: Concepts, Sources and Methods, 2006* (cat. no. 6429.0). This will be updated in early 2013 to reflect changes made as a result of the Review of the Producer and International Price indexes.

Readers wishing to obtain further information about the matters covered in this information paper should contact:

Mr Michael Morgan Director Producer Price Indexes Section Australian Bureau of Statistics PO Box 10 BELCONNEN ACT 2616 Telephone: (02) 6252 5121 Email: *<michael.morgan@abs.gov.au>* 

# ABBREVIATIONS .....

ABS	Australian Bureau of Statistics
ANA	Australian National Accounts
ANZSIC	Australian and New Zealand Standard Industrial Classification
APMI	Articles Produced by Manufacturing Industries
BLS	US Bureau of Labor Statistics
BoPBEC	Balance of Payments Broad Economic Categories
BOP	Balance of Payments
EU	European Union
GDP	gross domestic product
I-O	input-output
ILO	International Labour Organization
IMF	International Monetary Fund
IOIG	Input-Output Industry Group
IOPC	Input-Output Product Classification
ITPI	International Trade Price Indexes
MUMI	Materials Used in Manufacturing Industries
PPI	Producer Price Indexes
RBA	Reserve Bank of Australia
ROSC	Reports on the Observance of Standards and Codes
SDDS	Special Data Dissemination Standard
SITC	Standard International Trade Classification
SNA	System of National Accounts
SNZ	Statistics New Zealand
SOP	Stage of Production
UN	United Nations

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## CHAPTER 1

#### INTRODUCTION .....

**1.1** The Australian Producer Price Indexes (PPIs) and International Trade Price Indexes (ITPIs) produced by the Australian Bureau of Statistics (ABS) measure inflation by industry to support both the quarterly and annual Australian National Accounts and Balance of Payments calculation of chain volume measures, which form part of the *System of National Accounts 2008* (2008 SNA) and *Balance of Payments and International Investment Position Manual, sixth edition* (BPM6) statistical framework. The indexes are also used for other purposes.

**1.2** The PPIs and ITPIs are key economic indicators in most countries, including Australia. PPIs are part of the International Monetary Fund's (IMF) recommended set of economic indicators. For example, they are included in the Special Data Dissemination Standard (SDDS) expected of advanced economies.

**1.3** The quarterly Australian PPIs measure the average change in the prices of products (goods and services) as they either enter or leave the production process.

**1.4** The PPIs are constructed as either: input indexes, measuring the average change in the prices that producers pay for their inputs; or output indexes, measuring the average change in the prices that producers receive for their outputs. The Input indexes relate to all products used by an industry for the production of their output. The output indexes include all products produced by an industry that are sold or transferred within or outside that industry (for further processing, consumption, used as capital equipment, or exported).

**1.5** Complementing the individual series, the ABS aggregates the individual PPIs and presents them in a way that gives a view of price change for the economy as a whole, by industry. These are the Stage of Production (SOP) price indexes.

**1.6** The quarterly Australian ITPIs measure the average change in the prices paid for imports and the prices received for exports of merchandise.

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# CHAPTER **2**

### KEY CHANGES TO THE PRODUCER AND INTERNATIONAL TRADE PRICE INDEXES .....

**2.1** Historically the Producer Price Indexes (PPIs) and International Trade Price Indexes (ITPIs) have been reviewed individually for methodological improvement or presentational purposes.

**2.2** The 2011 review took a broad approach, considering the concepts, methodologies and data sources of the PPIs and ITPIs.

PRINCIPAL PURPOSE OF2.3 The review determined that the principal purpose of the PPIs and ITPIs is to measureTHE PPIs AND ITPIsinflation by industry to support the compilation of the Australian National Accounts and<br/>Balance of Payments. This requires that their compilation be on a basis coherent with the<br/>System of National Accounts 2008 (2008 SNA) and Balance of Payments and<br/>International Investment Position Manual, sixth edition (BPM6) statistical framework<br/>and on a gross industry basis, and is consistent with supporting other purposes of the<br/>PPIs and ITPIs.

THE FUTURE SUITE OF2.4 The Australian Bureau of Statistics (ABS) will continue to publish input and outputPPIs AND ITPIsindexes, as this supports the compilation of macroeconomic statistics such as the<br/>Australian National Accounts. From the September quarter 2012, the indexes will<br/>represent an industry, rather than a product (primary to an industry) view.

**2.5** The Stage of production (SOP) index compilation will be retained for the PPIs and ITPIs, providing a transactional flow basis for inflation monitoring. The underlying concepts of the SOP indexes remain unchanged.

**2.6** From the September quarter 2012, the ABS will re–weight the individual PPIs and SOP indexes based on the *Australian National Accounts: Input–Output Tables – Electronic Publication, 2007–08 Final* (cat. no. 5209.0.55.001). The SOP indexes will be reclassified according to the *Australian and New Zealand Standard Industrial Classification (ANZSIC), 2006 edition* (cat. no. 1292.0).

**2.7** From the September quarter 2012, the ABS will provide further clarification on the concept of the SOP indexes in the Explanatory Notes of the publication *Producer Price Indexes, Australia* (cat. no. 6427.0) and within an updated *Information Paper: Producer and International Trade Price Indexes: Concepts, Sources and Methods, 2006* (cat. no. 6429.0), which will be released in early 2013. To aid in this clarification, the SOP indexes will be renamed as follows:

- Stage 3 (Final) will become Final demand Products consumed as Final demand, with no further processing;
- Stage 2 (Intermediate) will become Intermediate demand Products consumed as inputs into the production of Final demand; and
- Stage 1 (Preliminary) will become Preliminary demand Products consumed as inputs into the production of Intermediate demand.

THE FUTURE SUITE OF PPIS AND ITPIS continued

**2.8** For more information on the interpretation of the SOP indexes please refer to *Appendix 3: Information Paper: Outcome of the Review of the Producer and International Trade Price Indexes, 2012* (cat. no. 6427.0.55.004).

**2.9** From the September quarter 2014, the introduction of a new computer system is expected to allow the expansion of the coverage to include non–market price indexes for the PPIs and the inclusion of international trade in services price indexes for the ITPIs.

QUALITY IMPROVEMENT AND COHERENCE OF THE PPIS AND ITPIS **2.10** The ABS will improve the coverage of the 2008 SNA Input–Output framework by progressively developing new price indexes, in line with the priorities detailed in this review. Subsequent priorities will be decided upon by the ABS in consultation with key users.

**2.11** From the September quarter 2012, the ABS will increase the collection of price observations in the third month of the reference quarter to ensure full quarter coverage. As a result:

- The ABS will delay the timing of the PPIs and ITPIs publication releases by nine working days, aligning with the Australian National Accounts and Balance of Payments input deadlines; and
- The current timing of the preliminary estimates of imports chain volume measures (CVMs) and implicit price deflators (IPDs) presented in the publication *International Trade in Goods and Services, Australia* (cat. no. 5368.0) cannot be supported under the revised time frames. The ABS plans to release a new electronic publication presenting the preliminary imports CVMs as soon as practicable after the release of the ITPIs. Further details of these data are published in the June quarter 2012 release of *Balance of Payments and International Investment Position, Australia* (cat. no. 5302.0).

**2.12** From early 2013, the ABS will fully incorporate the use of the Export Price Indexes (EPIs) and Import Price Indexes (IPIs) (i.e. the ITPIs) in the compilation of the Australian National Accounts and the Balance of Payments CVMs. This outcome improves the coherence between the ITPIs and the Balance of Payments and National Accounts export and imports of goods chain price indexes and Implicit Price Deflators (IPDs). The ITPIs will continue to be aggregated using weights aligned with the International Merchandise Trade Statistics (IMTS) concepts.

**2.13** From the September quarter 2014, the ABS will further improve the coherence of the ITPIs with the Balance of Payments and National Accounts export and imports chain price indexes and IPDs. The ABS will broaden the scope of the ITPIs to include International Trade in Services. The ITPIs will change to being aggregated using weights aligned with BPM6 concepts.

**2.14** The ABS noted the demand for Average Unit Value (AUV) Merchandise Trade series and will continue to publish the Merchandise Trade value and quantity components which allow their derivation, in the current ABS merchandise trade publications.

**2.15** From the September quarter 2014, the introduction of a new computer system is expected to allow the revision of the PPIs and ITPIs to accommodate improved data in subsequent quarters. To minimise the impact on those who use the indexes for contract indexation, once revised, indexes will be considered final (barring significant error and

CHAPTER 2 · KEY CHANGES TO THE PRODUCER AND INTERNATIONAL TRADE PRICE INDEXES

QUALITY IMPROVEMENT AND COHERENCE OF THE PPIS AND ITPIS continued	respondent corrections). The time period that the statistics will remain open to revision is subject to further investigation and will be announced in future issues of the <i>Producer</i> <i>Price Indexes, Australia</i> (cat. no. 6427.0) and the <i>International Trade Price Indexes,</i> <i>Australia</i> (cat. no. 6457.0) publications.
OTHER ISSUES	<b>2.16</b> The ABS will continue to focus on high quality, quarterly PPIs and ITPIs, which support the compilation and analysis of macroeconomic statistics, rather than releasing these series on a monthly basis.
	<b>2.17</b> From the September quarter 2012, the ABS will harmonise the index reference periods for the PPIs (including the SOP indexes), ITPIs and the Consumer Price Index. These series will be presented on an index reference period of $2011-12 = 100.0$ .
	<ul><li>2.18 The ABS will increase the frequency of re-weighting the PPIs in line with international recommendations to update weights at a minimum of once every five years. The ABS will undertake additional research to firm up the possibility for more frequent PPI re-weighting. The schedule of release of the Australian National Accounts I–O tables will influence this outcome. The re-weighting frequency of the ITPIs will remain annual.</li></ul>
	<b>2.19</b> From the September quarter 2012, the ABS will adopt 2008 SNA terminology when referencing indexes that align with the 2008 SNA. This will result in some changes to PPIs series titles. See <i>Chapter 4: Terminology Changes used in the Producer and International Price Indexes</i> .
NEW SERIES	<ul> <li>2.20 From the September quarter 2012 the following new price index series will be published on an ANZSIC 2006 basis back to September quarter 2009 in <i>Producer Price Indexes, Australia</i> (cat. no. 6427.0):</li> <li>ANZSIC 2006 Group 440 Accommodation – within the Output of the Accommodation and food services industries (Table 20) (series ID: A4406608F).</li> <li>ANZSIC 2006 Group 451 Cafes, restaurants and takeaway services – within Output of the Accommodation and food services industries (Table 20) (series ID: A4406603J).</li> <li>ANZSIC 2006 Group 697 Veterinary services– within the Output of the Professional, scientific and technical services industries (Table 24) (series ID: A4406512L).</li> </ul>
SERIES CONTINUING, MINOR COMPOSITIONAL CHANGE OR NAME CHANGE	<ul> <li>2.21 The industry approach to be adopted from the September quarter 2012 as outlined in paragraph 2.4 means there has been some compositional shift in the majority of the published indexes in PPIs cat. no. 6427.0. The following is a summary of these changes:</li> <li>Output indexes, such as output of the Services industries (Tables 20–27) and Output of the Manufacturing industries (Tables 12 and 29), include all output of production for the specified industry.</li> <li>Input indexes include all inputs into production. For the Input to the Manufacturing industries series (Tables 13, 14, 15, 16 and 28) this has changed from inputs from selected products used by an industry (ANZSIC 2006 Divisions A–S).</li> </ul>
	<b>2.22</b> From September quarter 2012, SOP indexes (Tables 1–10) have been reclassified from an ANZSIC 1993 basis to ANZSIC 2006.
	<b>2.23</b> For name changes to index titles resulting from the review, see Table 4.2, Chapter 4.

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#### DISCONTINUED SERIES

**2.24** The following time series will be discontinued as a result of the Review of the Producer and International Trade Price indexes. This will take effect from the September quarter 2013 release of *Producer Price Indexes, Australia* (cat. no. 6427.0). The series to be discontinued are:

**2.25** The time series for Asphalt supplied (series ID: A2314821C) and Asphalt placed (series ID: A2314822F), presented in Table 19 of this publication will be discontinued as a result of the 2011 review from the September quarter 2013. These indexes are a component of the published time series ANZSIC 2006 Class 3101 Road and bridge construction (Table 15). The time series for ANZSIC 2006 Class 3101 Road and bridge construction is unaffected by the discontinuation of the series for Asphalt supplied and placed;

**2.26** The time series for Open cut mining (series IDs: A2314310A, A2314311C and A2314312F)) and Underground mining (series IDs: A2314376T, A2314377V and A2314378W), (Table 11) will be discontinued and combined into one time series for ANZSIC 2006 Group 060 Coal mining – Input to the Coal mining industry from the September quarter 2013;

**2.27** The time series for Metallic input to the Fabricated metal product manufacturing industry, presented in Table 15 of this publication, which includes time series for; Iron and steel (series ID: A2312240V), Aluminium (series ID: A2313776K), Copper and brass (series ID: A2313779T) and Zinc (series ID: A2313782F) will be discontinued from the September quarter 2013. These indexes are a component of the published time series for Input to the Fabricated metal product manufacturing industry (series ID: A2312225W), Table 15 of this publication. The time series for Input to the Fabricated metal product manufacturing industry is unaffected by the discontinuation of the series for Metallic input to the Fabricated metal product manufacturing industry; and

**2.28** The time series for Copper input to the Other electrical equipment manufacturing industry, presented in Table 16 of this publication, (series IDs:A2314268J, A2314269K, A2314270V, A2314289V, A2314290C, A2314291F, A2314301X, A2314302A and A2314303C) will be discontinued from the September quarter 2013.

## CHAPTER **3**

### DESCRIPTION OF THE PRODUCER PRICE INDEXES WEIGHTING PATTERNS: SOURCES AND METHODS

**3.1** As index numbers, the Producer Price Indexes (PPIs) are computed as the weighted averages of the price movements of the many products for which prices are collected. For an input price index, the average is weighted to reflect the importance of each priced product in terms of its share of total purchases in the market. For an output price index, the average is weighted to reflect the importance of each priced product in terms of its share of total market revenue.

**3.2** The weights are key elements in the construction of the PPIs. They determine the impact that a price change for a particular industry will have on the overall index. For example, a 5% rise in the price of crude petroleum products has a much greater impact on the average rate of price change for purchases of the manufacturing sector than a 5% increase in the price of paper products, because the expenditure value of crude petroleum products is higher than that for paper. Without explicit weights, relative price changes for all commodities in the price basket would be given equal importance in calculating the index above.

**3.3** One of the key outcomes of the review was for the Australian Bureau of Statistics (ABS) to re–weight the individual PPIs and Stage of Production (SOP) indexes based on the 2007–08 Input–Output (I–O) tables. The ABS has also committed to increase the frequency of re–weighting the PPIs in line with international recommendations to update weights at a minimum of once every five years. The ABS will undertake additional research to firm up the possibility for more frequent PPI re–weighting. The schedule of release of the Australian National Accounts I–O tables will influence this outcome.

INDUSTRY APPROACH TO**3.4** The ABS investigated whether changes could be made to the suite of PPIs (excluding<br/>SOP and International Trade Price Indexes (ITPIs)) to improve their usefulness for the<br/>compilation of the Australian National Accounts and Balance of Payments.

**3.5** The basis of the producer price input indexes, when aggregated prior to the review implementation in the September quarter 2012, relates to selected products used by an industry for the production of their output. The input index basis therefore, relates to the selected products of the column of an I–O table (at purchasers' prices). The basis of the producer price output indexes, when aggregated, includes produced products primary to the industry that are sold or transferred within or outside that industry (for further processing, consumption, used as capital equipment, or exported). The output index basis therefore relates to the rows of an I–O table (at basic prices).

**3.6** To provide a more useful view of the Australian economy, from the September quarter 2012, the ABS input and output PPIs, when aggregated, represent the industry dimension of the I–O framework, that is, the columns form the basis of the indexes.

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#### INDUSTRY APPROACH TO RE-WEIGHTING continued

**3.7** By changing the basis of the output indexes, the interpretability of the indexes have been improved, as an industry basis will simplify the meaning of the indexes, (i.e. indexes will represent the inputs or outputs of a given industry) and provide coherence with Australian National Accounts estimates. For more information on producer price indexes and the *System of National Accounts 2008* (2008 SNA) please refer to *Appendix 2: Information Paper: Outcome of the Review of the Producer and International Trade Price Indexes, 2012* (cat. no. 6427.0.55.004).

**3.8** The adoption of the industry approach to re–weighting the suite of PPIs has changed the weights and composition of the indexes. For input indexes, weights now include all inputs for that industry, rather than just selected inputs. For example, the index 'Input to the Manufacturing industries' previously included the inputs for four ANZSIC Divisions (A-D). From September quarter 2012, inputs from all Australian and New Zealand Standard Industrial Classification (ANZSIC), 2006 edition Divisions (A-S) have been included in the index. For output indexes, such as 'Output of the Services industries', weights for secondary production rather than just primary production, have been added to the index. The definition of secondary production according to 2008 SNA is an activity carried out within a single producer unit in addition to the principal activity and whose output, like that of the principal activity, must be suitable for delivery outside the producer unit. The value added of a secondary activity must be less than that of the principal activity, by definition of the latter. The output of the secondary activity is a secondary product. In practice this meant the output of a product was considered secondary production if it was delivered outside the industry group (i.e. Input - Output Industry Group). Most producer units produce at least some secondary products.

**3.9** For more information on the use of the industry approach, see *Chapter 3*: *Information Paper: Outcome of the Review of the Producer and International Trade Price Indexes, 2012* (cat. no. 6427.0.55.004).

USE OF INPUT-OUTPUT (I-O) TABLES TO RE-WEIGHT THE UPPER LEVELS

**3.10** The key sources of data for upper level weights for the PPIs are the Australian National Accounts I–O tables. The supply table from the input–output framework shows the output value of product groups by source industry. The product detail tables show a finer disaggregation of supply, showing a comprehensive breakdown of output values at the product level. These data are used as sources for the upper level weights for output price indexes.

**3.11** For example, when the supply tables are valued in basic prices, the data are used to develop weights for the price indexes for the output of the Manufacturing industries, of the Construction industries, the Services industries, and price indexes for the stage of production producer price indexes.

**3.12** The use table from the input–output framework shows use of product groups by industry of consumption. These data are used as sources for the upper level weights for input price indexes. For example, when valued at purchasers' prices these data are used to develop weights for the price indexes for the Input to the Manufacturing industries.

#### CHAPTER 3 • DESCRIPTION OF THE PRODUCER PRICE INDEXES WEIGHTING PATTERNS: SOURCES AND METHODS

USE OF INPUT-OUTPUT (I-O) TABLES TO RE-WEIGHT THE UPPER LEVELS continued	<ul> <li>3.13 More information on the input–output framework can be found in:</li> <li><i>Australian National Accounts: Input–Output Tables – Electronic Publication,</i> 2007–08 Final (cat. no. 5209.0.55.001);</li> <li><i>Australian National Accounts: Input–Output Tables (Product Details) – Electronic Publication 2007–08</i> (cat. no. 5215.0.55.001); and</li> <li><i>Australian National Accounts: Concepts, Sources and Methods. Edition 1 2012</i> (cat. no. 5216.0).</li> </ul>
USE OF BUILDING ACTIVITY CONSTRUCTION SURVEY DATA	<b>3.14</b> The ABS data from the Building Activity Construction Survey (BACS) was used to supplement the Australian National Accounts I–O data for re–weighting the published indexes in Table 15: Output of the Construction industries. I–O data is only available at the national level, BACS data was required to derive splits by state to re–weight at the state level. BACS data was also used to split the Input–Output Industry Group IOIG '3001 Residential Building Construction' into the two published ANZSIC 2006 Classes of '3011 House Construction' and '3019 Other Residential Building Construction'. For more information on BACS data, see <i>Building Activity, Australia</i> (cat. no. 8752.0).
PRICE UPDATING	<ul> <li>3.15 The 2007–08 I–O tables provide the information on the value of inputs to, and outputs of Australian industries. Value data can be broken down into a price component and quantity component. Weights were derived from the 2007–08 value data and then price updated to June quarter 2012. Therefore, the weights used reflect the 2007–08 weighting information for quantities and prices (June quarter 2012).</li> <li>3.16 Price updating was applied to all indexes with the exception of the ANZSIC 2006 Class '2421 Computer and electronic office equipment manufacturing'. Price updating for this class may lead to underestimation of the weight in the PPIs due to the relatively high volume growth in quality (features) of these high technology goods compared to other products in the PPIs.</li> </ul>

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## CHAPTER 4

### TERMINOLOGY CHANGES USED IN THE PRODUCER AND INTERNATIONAL TRADE PRICE INDEXES PUBLICATIONS

**4.1** Users of the Producer Price Indexes (PPIs) and International Trade Price Indexes (ITPIs) have found some of the terminology used confusing. As a result, the Australian Bureau of Statistics (ABS) has changed some terminology to better align with international standard terminology as used in the international frameworks, such as the 2008 System of National Accounts (2008 SNA) and the International Monetary Fund's (IMF's) 2004 Producer Price Index Manual. Aligning with international standards will provide clarity of meaning and comparability.

**4.2** From the September quarter 2012, the ABS will adopt 2008 SNA terminology when referencing indexes that align with the 2008 SNA. This will result in some changes to PPI series titles.

**4.3** Terminology will be updated in related publications (such as the Producer and International Trade Price Indexes: Concepts Sources and Methods) in early 2013.

**4.4** Table 4.1 below describes the current terms in use, their meanings and a preferred term supported by current international frameworks and manuals.

Term	Context	Corresponding 2008 SNA term	Outcome
Sector	In the PPI context, sector has been taken to describe groupings of enterprises under an industrial classification such as ANZSIC (Division, Sub–division, Group or Class). <b>Sector</b> should only refer to groupings of institutions of similar ownership and role, such as the private non–financial corporations sector.	The correct terminology to describe those enterprises grouped under an industrial classification is <b>Industry</b> .	Industry or industry grouping will replace sector.
Materials	In the PPI context, <b>materials</b> has been used to describe intermediate inputs into production.	The 2008 SNA describes <b>materials</b> (and supplies) as consisting of all <b>products</b> that an enterprise holds in inventory with the intention of using them as intermediate inputs into production.	Products (goods and services) will replace Materials.
Articles	In the PPI context, <b>articles</b> has been used to describe the result of a process of production.	The 2008 SNA describes Products as <b>goods</b> and <b>services</b> that result from a process of production.	Products Produced will replace Articles Produced.
Commodity	In the PPI context a <b>commodity</b> has been used to describe various states of product, from a raw material to a final good.	Commodities are generically described as goods.	Product will replace commodity.
Items	In the PPI context an <b>item</b> has used to describe the result of a process of production.	The 2008 SNA describes <b>Products</b> as <b>goods</b> and <b>services</b> that result from a process of production.	Product will replace item.

TABLE 4.1 - CHANGES TO TERMINOLOGY

**4.5** As a consequence of Table 4.1 above, there are changes to the titles of the PPI's and SOP indexes. Table 4.2 outlines the changes to index titles from the September quarter 2012.

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Table number	Index title pre September quarter 2012	Table number	Index title post September quarter 2012
	Tables of Stage of Produc	tion Produ	cer Price Indexes
Table 1	Index numbers by stage and source	Table 1	Index numbers by stage and source
Table 2	Percentage changes by stage and source	Table 2	Percentage changes by stage and source
Table 3	Final commodities by source and destination	Table 3	Final demand by source and destination, excluding exports, index numbers
Table 4	Percentage change, final commodities by source and destination	Table 4	Final demand by source and destination, excluding exports, percentage changes
Table 5	Contribution to change in final commodities index by industry and destination	Table 5	Contribution to change in Final demand index by industry and destination
Table 6	Contribution to change in domestic final commodities index by industry and destination	Table 6	Contribution to change in domestic Final demand index by industry and destination
Table 7	Contribution to change in imported final commodities index by industry and destination	Table 7	Contribution to change in imported Final demand index by industry and destination
Table 8	Contribution to change in intermediate commodities index by industry and destination	Table 8	Contribution to change in Intermediate demand index by industry and source
Table 9	Contribution to change in preliminary commodities index by industry and destination	Table 9	Contribution to change in preliminary demand index by industry and source
Additiona	I Tables available on the ABS Website		
	MANUFACTURING INDUSTRI	ES PRODU	CER PRICE INDEXES
Table 10	Articles produced by manufacturing industries, division index numbers and percentage changes	Table 12	Output of the Manufacturing industries, division, subdivision, group and class index numbers
Table 11	Articles produced by manufacturing industries, index numbers for subdivisions, groups and classes	Table 13	Input to the Manufacturing industries, division and selected industries index numbers and percentage changes
Table 12	Materials used in manufacturing industries, index numbers for division and selected materials	Table 14	Input to the Manufacturing industries, subdivision index numbers
Table 13	Materials used in manufacturing industries, division percentage changes	Table 15	Metallic input to Fabricated metal products industry, index numbers
Table 14	Materials used in manufacturing industries, index numbers for subdivisions	Table 16	Copper input to the Other electrical equipment manufacturing industry, index numbers and percentage changes
	CONSTRUCTION INDUSTRI	ES PRODU	CE PRICE INDEXES
Table 15	Selected output of Division E – Construction, subdivision and class index numbers	Table 17	Output of the Construction industries, subdivision and class index numbers
Table 16	Materials used in house building, index numbers by state capital city	Table 18	Input to the House construction industry, all groups and six state capital cities, index numbers and percentage changes
Table 17	Material used in house building, percentage change by state capital city	Table 19	Asphalt supplied and placed, weighted average of six state capital cities, index numbers
	MINING INDUSTRIES PR	ODUCER	PRICE INDEXES
Table 18	Materials used in coal mining, index numbers and percentage changes	Table 11	Input to the Coal mining industry, index numbers and percentage changes
	SERVICE INDUSTRIES	PRODUCE	R PRICE INDEX
Table 19	Selected output of Division I – Transport, postal and warehousing, group and class index numbers	Table 20	Output of the Accommodation and food services industries, group index numbers
Table 20	Selected output of Division J – Information media and telecommunications, Division O – Public administration and safety, and Division S – Other services, group and class index numbers	Table 21	Output of the Transport, postal and warehousing industries, group and class index numbers
Table 21	Selected output of Division L – Rental, hiring and real estate services, subdivision, group and class index numbers	Table 22	Output of the Information media and telecommunications industries, group and class index numbers
Table 22	Selected output of Division M – Professional, scientific and technical services, group and class index numbers	Table 23	Output of the Rental, hiring and real estate services industries, subdivision, group and class index numbers
Table 23	Selected output of Division N – Administrative and support services, group and class index numbers	Table 24	Output of the Professional, scientific and technical services industries, group and class index numbers
		Table 25	Output of the Administrative and support services industries, group and class index numbers
		Table 26	Output of the Public administration and safety industries, group and class index numbers
		Table 27	Output of the Other services industries, group and class index numbers

#### TABLE 4.2 - CHANGES TO INDEX TABLES

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IADLE	4.2 - CHANGES TO INDEX TABLES, COL	nnueu	
	STAGE OF PRODUCTION	PRODUCE	R PRICE INDEXES
Table 24	Stage of Production :Index numbers, Final commodities by source and destination, including exports	Table 10	Final demand by source and destination, including exports, index numbers and percentage changes
Table 25	Stage of Production :Percentage change, final commodities by source and destination, including exports		
Table 26	Price indexes of articles produced by manufacturing industries: contribution of subdivisions and groups	Table 29	Output of the Manufacturing industries, subdivision and group index points changes
Table 27	Price indexes of materials used in manufacturing industries: contribution of selected materials	Table 28	Input to the Manufacturing industries, group index points changes
Table 28	Price indexes of materials used in manufacturing industries :Indexes of metallic materials used in the fabricated metal products		
Table 29	Price indexes of materials used in house building, All groups index by state capital cities index (index points)	Table 30	Input to the House construction industry, all groups and six state capital cities, index points changes
Table 30	Price indexes of copper materials: Copper materials used in the manufacture of electrical equipment, index numbers and percentage changes		
Table 31	Price indexes for asphalt supplied and placed: index numbers, weighted average of six state capital cities		

#### TABLE 4.2 - CHANGES TO INDEX TABLES, continued

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## CHAPTER 5

### RE-REFERENCING OF PRODUCER AND INTERNATIONAL TRADE PRICE INDEXES .....

5.1 As mentioned in Chapter 2, from the September quarter 2012, the Australian Bureau of Statistics (ABS) will harmonise the index reference periods for Producer Price Indexes (PPIs) (including Stage of Production (SOP) indexes) and the International Trade Price Indexes (ITPIs). These series will be presented on an index reference period of 2011-12 = 100.05.2 Conversion factors will be published as an appendix in the September quarter 2012 issues of the Producer Price Indexes, Australia (cat. no. 6427.0) and the International Trade Price Indexes, Australia (cat. no, 6457.0). This will enable users to convert previously published time series to the new index reference period or to convert index numbers on the new index reference period to the previous time series index reference period. 5.3 The following examples demonstrates the method used by the ABS to calculate the conversion factors to convert from the old (1998-99 = 100.0) to the new (2011-12 = 100.0)100.0) index reference period (and vice versa). CONVERTING AN OLD TIME 5.4 The conversion of time series from the old index reference periods to the new SERIES TO THE NEW involves a rescaling of the index numbers. The conversion factors that should be applied INDEX REFERENCE to the index numbers are calculated by obtaining the ratio of the index numbers on the PERIOD old (1998-99 = 100.0) to the new index reference period (2011-12 = 100.0). 5.5 Conversion factors are calculated using the four index numbers for the 2011–12 financial year. 5.6 For example, for the Stage of Production Intermediate demand; total an arithmetic conversion factor is obtained as follows: • Rounded conversion factor (index reference period 1998-99 = 100.0) = 100.0/((150.2 + 150.7 + 151.1 + 152.2)/4) = 0.6620■ Index number for June quarter 2012 = 152.2 (index reference period 1998–99 = 100.0)• Index number for the June quarter 2012 (index reference period 2011-12 = 100.0) is 152.2 x **0.6620** = 100.8 5.7 The factor may be used to convert any historical Stage of Production Intermediate demand; total, index numbers to the new index reference period. The formulae shown in the above example may be followed in respect of any specific time series for which index numbers have been published on the old index reference period.

CONVERTING THE RE-REFERENCED SERIES BACK TO THE PREVIOUS INDEX REFERENCE PERIOD

**5.8** The conversion of the series from the new index reference period to the old involves a rescaling of the index numbers. The rescaling factors are obtained by taking the inverse of the previously described scaling factor.

**5.9** For example, for the **Stage of Production Intermediate demand; total**, the rescaling factor is obtained as follows:

- Rounded conversion factor (index reference period 1998–99 = 100.0) = ((150.2 + 150.7 + 151.1 + 152.2)/4) /100.0 = 1.5105
- Index number for the June quarter 2012 (index reference period 2011–12 = 100.0) is 100.8
- Index number for the June quarter 2012 (index reference period 1998–99 = 100.0) is 100.8 x 1.5105 = 152.2

**5.10** The factor may be used to convert any historical **Stage of Production Intermediate demand; total** index number on the new index reference period. The formulae shown in the above example may be followed in respect of any specific time series for which index numbers have been published on the new index reference period.

ROUNDING5.11 Index numbers and percentage changes are always published to one decimal place,<br/>with the percentage changes being calculated from the rounded index numbers. Index<br/>numbers for periods longer than a single quarter (e.g. for financial years) are calculated<br/>as the simple arithmetic average of the relevant rounded quarterly index numbers. The<br/>conversion factors described above are applied to the rounded index numbers.

**5.12** A consequence of re–referencing price indexes can be that period–to–period percentage changes may differ slightly to those previously published due to rounding and the re–referencing. These differences do not constitute a revision.

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## CHAPTER 6

### FUTURE CHANGES TO BE MADE TO THE PRODUCER AND INTERNATIONAL TRADE PRICE INDEXES

*Early 2013* 6.1 The Australian Bureau of Statistics (ABS) will fully incorporate the use of the Export Price Index (EPI) and the Import Price Index (IPI) (i.e. the International Trade Price Indexes (ITPIs)) in the compilation of the Australian National Accounts and the Balance of Payments chain volume measures. The ITPIs will continue to be aggregated using weights aligned with International Merchandise Trade concepts.
 6.2 An updated Producer and International Trade Price Indexes Concepts, Sources and Methods publication will be released.
 November 2014
 6.3 A new computer system is expected to be implemented in mid 2014, supporting the release of the September quarter 2014 indexes that includes: planned revisions to the Producer Price Indexes (PPIs) and the ITPIs to include International Trade in Septience. The ITPIs will be accompated using publication are price to a with *Palanage of Payments*.

Services. The ITPIs will be aggregated using weights aligned with *Balance of Payments and International Investment Position Manual, sixth edition (BPM6) concepts.* This will allow the publication of International Trade in goods and services price indexes.

#### APPENDIX 1

#### STAGE OF PRODUCTION AND IMPLEMENTATION OF THE ANZSIC 2006

INTRODUCTION1 This Appendix provides information on the changes to the Stage of Production (SOP)<br/>indexes as a result of updating the industrial classification from the 1993 edition to the<br/>2006 edition of the Australian and New Zealand Standard Industrial Classification<br/>(ANZSIC).

BACKGROUND2 In 2002, the Australian Bureau of Statistics (ABS) and Statistics New Zealand<br/>commenced a review to maintain the currency and relevance of ANZSIC. The review<br/>found that since the release of the original classification in 1993 there had been<br/>significant changes in industrial and business activities in both Australia and New<br/>Zealand. The 2006 edition of ANZSIC was released in February 2006. An electronic<br/>version of the ANZSIC 2006 classification is available free of charge from the ABS website,<br/>titled Australian and New Zealand Standard Industrial Classification, (ANZSIC), 2006<br/>(cat. no. 1292.0).

**3** The ABS introduced the PPIs and ITPIs series (excluding SOP) on an ANZSIC 2006 basis in the September quarter 2009 (See *Information Paper: Update on ANZSIC 2006 Implementation for Producer and International Trade Price Indexes, 2009* (cat. no. 6427.0.55.002)). An overview of the changes relating to the implementation of ANZSIC 2006 in the PPIs and ITPIs series was also presented in the Appendix of the March quarter 2009 issues of *Producer Price Indexes, Australia* (cat. no. 6427.0) and *International Trade Price Indexes, Australia* (cat. no. 6427.0). Correspondences between the old (ANZSIC 1993) and new (ANZSIC 2006) series are available via the 'Downloads' tab of the March quarter 2009 issues on the ABS website.

#### CHANGES FROM THE SEPTEMBER QUARTER 2012

**4** The SOP indexes will be presented using the ANZSIC 2006 classification from the September quarter 2012.

5 Major outcomes from the implementation of ANZSIC 2006 will include:

- some restructuring and/or renaming of previous ANZSIC 1993 series;
- discontinuation of some series (see below);
- introduction of some new series;
- introduction of a new weight reference period; and
- a changed presentation and format of *Producer Price Indexes, Australia* (cat. no. 6427.0).

6 The discontinued series for the SOP Final demand will be:

- Other food manufacturing (group 217);
- Other wood, paper and product manufacturing (group 232–233);
- Printing and services to printing (group 241);
- Publishing (group 242);
- Recorded media manufacturing and publishing (group 243);
- Other chemical product manufacturing (group 254);

#### CHANGES FROM THE SEPTEMBER QUARTER 2012 continued

- Plastic product manufacturing (group 256);
- Iron and steel manufacturing (group 271);
- Sheet metal product manufacturing (group 275);
- Electrical equipment and appliance manufacturing (group 285);
- Industrial machinery and equipment manufacturing (group 286);
- Non-building construction (group 412);
- Services to transport (subdivision 66);
- Technical services (group 782); and
- Computer services (group 783).

7 The discontinued series for the SOP Intermediate demand will be:

- Services to agriculture; hunting and trapping (subdivision 02);
- Other food manufacturing (group 217);
- Printing and services to printing (group 241);
- Publishing (group 242);
- Other chemical product manufacturing (group 254);
- Plastic product manufacturing (group 256);
- Iron and steel manufacturing (group 271);
- Structural metal product manufacturing (group 274);
- Sheet metal product manufacturing (group 275);
- Electrical equipment and appliance manufacturing (group 285);
- Industrial machinery and equipment manufacturing (group 286);
- Air and space transport (group 640);
- Other transport (group 650);
- Services to transport (group 670);
- Property operators and developers (group 771);
- Technical services (group 782); and
- Computer services (group 783).

8 The discontinued series for the SOP Preliminary demand will be:

- Services to agriculture; hunting and trapping (subdivision 02);
- Other food manufacturing (group 217);
- Printing and services to printing (group 241);
- Publishing (group 242);
- Other chemical product manufacturing (group 254);
- Plastic product manufacturing (group 256);
- Iron and steel manufacturing (group 271);
- Structural metal product manufacturing (group 274);
- Sheet metal product manufacturing (group 275);
- Electrical equipment and appliance manufacturing (group 285);
- Industrial machinery and equipment manufacturing (group 286);
- Air and space transport (group 640);
- Other transport (group 650);
- Services to transport (group 670);
- Property operators and developers (group 771);
- Technical services (group 782); and
- Computer services (group 783).

#### CHANGES FROM THE SEPTEMBER QUARTER 2012 continued

**9** From the September quarter 2012, the ABS will provide further clarification on the concept of the SOP indexes in the Explanatory Notes of the publication *Producer Price Indexes, Australia* (cat. no. 6427.0) and within an updated Producer and International Trade Price Indexes: Concepts, Sources and Methods publication, which will be released in early 2013. To aid in this clarification, the SOP indexes will be renamed as follows:

- Stage 3 (Final) will become Final demand Products consumed as Final demand, with no further processing;
- Stage 2 (Intermediate) will become Intermediate demand Products consumed as inputs into the production of Final demand; and
- Stage 1 (Preliminary) will become Preliminary demand Products consumed as inputs into the production of Intermediate demand.

**10** Tables 1, 2 and 3 below provide correspondences between the old (ANZSIC 1993) and new (ANZSIC 2006) SOP series currently released in *Producer Price Indexes, Australia* (cat. no. 6427.0). Discontinued and new series are also shown.

# TABLE 1 STAGE OF PRODUCTION, FINAL DEMAND, Australian and New Zealand Standard Industrial Classification (ANZSIC) 1993 to 2006 Correspondence Table

ANZSIC 1993         AnzSIC 2006         Becomes         Status           012-013         Grain, sheep, beef and dairy cattle farming         014,016         Cattle farming;         014,016           011,014-016         Other agriculture         011-013,015,         (h)         (h)           04         Commercial fishing         041         Fishing         (h)           011         Mest and mest product manufacturing         (l)         (l)           212         Dairy product manufacturing         113         Dairy product manufacturing         (l)           213         Fruit and vegetable processing         l)         (l)         (l)         (l)           214         Oli and fat manufacturing         115         Oli and fat manufacturing         (l)           215         Flour mill and cereal food manufacturing         116         Grain mill and cereal product manufacturing         (l)           216         Bakery product manufacturing         112         Bakery product manufacturing         (l)           217         Other food manufacturing         112         Becortage manufacturing         (l)           218         Beverage and malt manufacturing         121         Beverage manufacturing         (l)           219         Tobacco product manufacturing	Table 5 of Prod	ucer Price Indexes, Australia (cat. no. 6427.0)	-		
AK2SC 2009         Becomes         Beta         Status           012-013         Grain, sheep, beef and dairy cattle farming         014, 016         cattle farming         (a)           011, 014-016         Other agriculture         (b)         (c)         (c)         (c)           011         Meat and meat product manufacturing         111         Meat and meat product manufacturing         (c)         (c)           012-013         Fruit and vegetable processing         114         Fruit and vegetable processing         (c)           213         Fruit and vegetable processing         114         Fruit and vegetable processing         (c)           214         Oil and fat manufacturing         112         Safavod processing         (c)           215         Flour mill and cereal product manufacturing         (c)         (c)         (c)           216         Bakery product manufacturing         (c)         (c)         (c)           217         Other food manufacturing         112         Safavod processing         (c)           218         Beverage and mait manufacturing         122         Safavod processing         (c)           219         Tobacco product manufacturing         133         Textile monufacturing         (c)           219					c
Old-013         Grain, sheep, beef and dairy cattle farming         Old, 016         Cattle farming         Old, 016         Cattle farming         (a)           011, 014-016         Other agriculture         (17-019)         Other agriculture         (b)           04         Commercial fishing         041         Fishing         (b)           031         Meat and meat product manufacturing         111         Meat and meat product manufacturing         (a)           121         Dairy product manufacturing         113         Dairy product manufacturing         (a)           121         Meat and meat product manufacturing         116         Grain mill and cereal product manufacturing         (a)           1216         Bakery product manufacturing         117         Bakery product manufacturing         (b)           1216         Bakery product manufacturing         (c)         (c)         (c)           1216         Bakery product manufacturing         (c)         (c)         (c)           1216         Bakery product manufacturing         (c)         (c)         (c)           121         Beverage manufacturing         (c)         (c)         (c)           1218         Beverage manufacturing         (d)         (d)         (d)         (d)      <	ANZSIC 1993		ANZSIC 2006	Becomes	Status
012-013       Claim sheep, ober and outly cature annuing.       (1)	012 012	Crain sheep heef and dairy sattle forming	014 016	sitep, beer cattle and grain farming, and dairy	(2)
011-013, 04.7         0ther agriculture         011-013, 04.7         0ther agriculture         (b)           04         Commercial fishing         041         Fishing         (b)           011         Meat and meat product manufacturing         113         Dairy product manufacturing         (a)           212         Dairy product manufacturing         113         Dairy product manufacturing         (a)           213         Fruit and vegetable processing         114         Fruit and vegetable processing         (a)           214         Ol and fat manufacturing         115         Oll and fat manufacturing         (a)           215         Flour mill and cereal food manufacturing         112         Seafood processing         (c)           216         Bakery product manufacturing         112         Seafood processing         (c)           217         Other food manufacturing         121         Beverage multacturing         (c)           218         Beverage and malt manufacturing         121         Beverage multacturing         (a)           219         Tobacco product manufacturing         131         Textlle manufacturing         (a)           2214         Textle fibre, yarn and woven fabric         Fabre product manufacturing         (a)           2223	012-013	Grain, sheep, beer and dairy cattle farming	014,010		(a)
01, 01-010       Commercial fishing       (0)         04       Commercial fishing       (0)         211       Meat and meat product manufacturing       111       Net and meat product manufacturing       (a)         212       Dairy product manufacturing       113       Dairy product manufacturing       (a)         213       Fruit and vegetable processing       114       Fruit and vegetable processing       (a)         214       Oil and fat manufacturing       115       Oil and fat manufacturing       (a)         215       Flowr mill and cereal food manufacturing       112       Seefood processing       (c)         216       Bakery product manufacturing       112       Seefood processing       (c)         217       Other food manufacturing       112       Seefood processing       (c)         218       Beverage and malt manufacturing       121       Beefood processing       (c)         218       Beverage and malt manufacturing       122       Cigarette and tobacco product manufacturing       (a)         219       Tobacco product manufacturing       133       Textile product manufacturing       (a)         221       manufacturing       133       Textile product manufacturing       (a)         222       Textile fibre, yar	011 014 016	Other agriculture	011-013, 013, 013, 017, 017, 010	Other agriculture	(h)
211       Meat and meat product manufacturing       111       Meat and meat product manufacturing       (a)         212       Dairy product manufacturing       113       Dairy product manufacturing       (d)         213       Fruit and vegetable processing       114       Fruit and vegetable processing       (a)         214       Oil and fat manufacturing       116       Grain mill and cereal product manufacturing       (a)         215       Flour mill and cereal food manufacturing       117       Dekery product manufacturing       (a)         216       Bakery product manufacturing       112       Sectod product manufacturing       (c)         217       Other food manufacturing       112       Sectod product manufacturing       (c)         218       Beverage and malt manufacturing       121       Beverage manufacturing       (c)         218       Beverage and malt manufacturing       121       Beverage manufacturing       (a)         219       Tobacco product manufacturing       131       Textile manufacturing       (a)         221       Textile fibre, yan and woven fabric       Fattle manufacturing       (a)         223       Knitting mills       134       Knitting mills       (a)         234       Clothing manufacturing       135	011, 014-010	Commercial fishing	017-019	Fishing	(b) (b)
The set in the product manufacturing         The product manufacturing <ththe manufacturing<="" product="" th=""></ththe>	211	Meat and meat product manufacturing	111	Meat and meat product manufacturing	(D) (D)
213       Fruit and vegetable processing       [a]         213       Fruit and vegetable processing       [a]         214       Oil and fat manufacturing       [15       Oil and fat manufacturing       [a]         215       Flour mill and cereal food manufacturing       [16       Grain mill and cereal product manufacturing       [a]         216       Bakery product manufacturing       [b]       Disontinued, split into 112, 118, 119, 121 (part)       [c]         217       Other food manufacturing       Disontinued, split into 112, 118, 119, 121 (part)       [c]         218       Beverage and malt manufacturing       [12]       Seafood processing       [c]         219       Tobacco product manufacturing       [12]       Cigarette and tobacco product manufacturing       [a]         221       manufacturing       [131       Textile product manufacturing       [a]         223       Knitting mills       [134       Knitting product manufacturing       [a]         224       Clothing manufacturing       [351       [c]       [a]         224       Footwear manufacturing       [352       Footwear manufacturing       [a]         225       Footwear manufacturing       [32]       product manufacturing       [a]         226       Leather and	211	Dairy product manufacturing	111	Dairy product manufacturing	(a) (a)
Dia of the regulate product more than a set of the transmission of tran	212	Fruit and vegetable processing	113	Fruit and vegetable processing	(a)
215     Orderic Archaenandecuring     113     On and or mandacturing     (a)       215     Flour mill and cereal food manufacturing     116     Grain mill and cereal product manufacturing     (a)       216     Bakery product manufacturing     117     Bakery product manufacturing     (c)       217     Other food manufacturing     Discontinued, split into 112, 113, 119, 212 (part)     (c)       218     Beverage and malt manufacturing     121     Beverage manufacturing     (c)       218     Beverage and malt manufacturing     122     Cigarette and tobacco product manufacturing     (a)       219     Tobacco product manufacturing     131     Textile fibre, yarn and woven fabric     (a)       221     Textile fibre, yarn and woven fabric     (a)     (a)       222     Textile product manufacturing     131     Textile product manufacturing     (a)       223     Knitting milis     134     Knitting product manufacturing     (a)       224     Clothing manufacturing     1351     Clothing manufacturing     (a)       225     Footwear manufacturing     132     product manufacturing     (a)       226     Leather and leather product     132     product manufacturing     (c)       237     Natige and services to printing     Discontinued, split into 149, 15     (c)<	213	Oil and fat manufacturing	115	Oil and fat manufacturing	(a)
215     Flour mill and cereal food manufacturing     116     Grain mill and cereal product manufacturing     (a)       216     Bakery product manufacturing     117     Bakery product manufacturing     (a)       217     Other food manufacturing     Discontinued, split into 112, 118, 119, 121 (part)     (c)       218     Beverage and malt manufacturing     121     Beverage manufacturing     (c)       218     Beverage and malt manufacturing     122     Cigarette and tobacco product manufacturing     (d)       219     Tobacco product manufacturing     131     Textile forker, syn and woven fabric     (a)       221     Textile forker, syn and woven fabric     (a)     (a)       222     Textile product manufacturing     133     Textile product manufacturing     (a)       223     Knitting mills     134     Knitting manufacturing     (a)       224     Clothing manufacturing     1352     Footwear manufacturing     (a)       225     Footwear manufacturing     132     product manufacturing     (a)       236     Leather and leather product manufacturing     132     product manufacturing     (c)       241     Printing and services to printing     Discontinued, split into 149, 15     (c)       242     Publishing     Discontinued, split into 152, 161     (c)	217		115		(u)
Discretion         Discretion <thdiscretion< th="">         Discretion         Discreti</thdiscretion<>	215	Flour mill and cereal food manufacturing	116	Grain mill and cereal product manufacturing	(a)
Size         Differ food manufacturing         Discontinued, split into 112, 118, 119, 121 (part)           112         Seafood processing         (c)           113         Sugar and confectionery manufacturing         (c)           118         Sugar and confectionery manufacturing         (c)           119         Other food product manufacturing         (c)           218         Beverage and malt manufacturing         (c)           219         Tobacco product manufacturing         122         Cigarette and tobacco product manufacturing         (a)           219         Tobacco product manufacturing         131         Textile product manufacturing         (a)           222         Textile product manufacturing         133         Textile product manufacturing         (a)           223         Knitting mills         134         Knitting manufacturing         (a)           224         Clothing manufacturing         135         Clothing manufacturing         (a)           224         Leather and leather product manufacturing         132         (a)         (a)           225         Footwear manufacturing         132         (c)         (a)           232-233         manufacturing         (b)         (c)         (c)           241 <td< td=""><td>215</td><td>Bakery product manufacturing</td><td>117</td><td>Bakery product manufacturing</td><td>(a)</td></td<>	215	Bakery product manufacturing	117	Bakery product manufacturing	(a)
112       Seafood processing       (c)         118       Sugar and confectionery manufacturing       (c)         218       Beverage and malt manufacturing       121       Beverage manufacturing       (c)         219       Tobacco product manufacturing       122       Cigarette and tobacco product manufacturing       (a)         221       manufacturing       131       Textile manufacturing       (a)         222       Textile product manufacturing       133       Textile product manufacturing       (a)         223       Knitting mills       134       Knitting product manufacturing       (a)         224       Clothing manufacturing       1352       Footwear manufacturing       (a)         225       Footwear manufacturing       132       product manufacturing       (a)         226       Leather and leather product manufacturing       132       product manufacturing       (c)         232-233       manufacturing       Discontinued, split into 149, 15       (c)       (c)         241       Printing and services to printing       Discontinued, split into 149, 15       (c)         242       Pulp, paper and paper product       152       Converted paper product manufacturing       (c)         241       Printing and services to printing </td <td>217</td> <td>Other food manufacturing</td> <td>Discontinued, s</td> <td>plit into 112, 118, 119, 121 (part)</td> <td>(4)</td>	217	Other food manufacturing	Discontinued, s	plit into 112, 118, 119, 121 (part)	(4)
118     Sugar and confectionery manufacturing     (c)       218     Beverage and malt manufacturing     (c)       219     Tobacco product manufacturing     (c)       219     Tobacco product manufacturing     (a)       219     Tobacco product manufacturing     (a)       221     manufacturing     (a)       222     Textile fibre, yarn and woven fabric     (a)       223     Knitting mills     131     Textile product manufacturing     (a)       224     Clothing manufacturing     1351     Clothing manufacturing     (a)       225     Footwear manufacturing     132     Footwear manufacturing     (a)       226     Leather and leather product manufacturing     (a)       237     Manufacturing     132     product manufacturing     (a)       236     Leather and paper product     132     product manufacturing     (a)       237     Manufacturing     132     product manufacturing     (c)       238     Paper and paperboard manufacturing     (c)       241     Printing and services to printing     Discontinued, split into 149, 15     (c)       242     Publishing     Discontinued, split into 152, 161     (c)       243     Recorded media manufacturing and publishing     Discontinued, isolit and services <td></td> <td></td> <td>112</td> <td>Seafood processing</td> <td>(c)</td>			112	Seafood processing	(c)
119         Other food product manufacturing         (c)           218         Beverage and malt manufacturing         121         Beverage manufacturing         (b)           219         Tobacco product manufacturing         122         Cigarette and tobacco product manufacturing         (a)           221         Textile fibre, yarn and woven fabric         131         Textile product manufacturing         (a)           222         Textile product manufacturing         133         Textile product manufacturing         (a)           223         Knitting mills         134         Knitting product manufacturing         (a)           224         Clothing manufacturing         1352         Footwear manufacturing         (a)           225         Footwear manufacturing         132         product manufacturing         (a)           226         Leather and leather product manufacturing         (b)         (c)         (c)           232-233         manufacturing         132         product manufacturing         (c)           232-233         manufacturing         132         product manufacturing         (c)           241         Printing and services to printing         Discontinued, split into 149, 15         (c)           242         Publishing         Discontinued, include			118	Sugar and confectionery manufacturing	(c)
218     Beverage and malt manufacturing     121     Beverage manufacturing     (b)       219     Tobacco product manufacturing     122     Cigarette and tobacco product manufacturing     (a)       221     manufacturing     131     Textile product manufacturing     (a)       222     Textile product manufacturing     133     Textile product manufacturing     (a)       223     Knitting mills     134     Knitting product manufacturing     (a)       224     Clothing manufacturing     1351     Clothing manufacturing     (a)       225     Footwear manufacturing     1352     Footwear manufacturing     (a)       226     Leather and leather product manufacturing     122     product manufacturing     (a)       226     Uter wood, paper and paper product     123     product manufacturing     (c)       227     Other wood, paper and paper product     149     Other wood product manufacturing     (c)       224     Printing and services to printing     Discontinued, split into 149, 15     (c)       241     Printing and services to printing     Discontinued, included in 541     (c)       242     Publishing     Discontinued, include in 541     (c)       243     Recorded media manufacturing     182     Basic polymer manufacturing     (a)       2			119	Other food product manufacturing	(c)
219       Tobacco product manufacturing       122       Cigarette and tobacco product manufacturing       (a)         211       manufacturing       131       Textile fibre, yarn and woven fabric       (a)         221       manufacturing       131       Textile manufacturing       (a)         222       Textile product manufacturing       133       Textile product manufacturing       (a)         223       Knitting mills       134       Knitting product manufacturing       (a)         224       Clothing manufacturing       1351       Clothing manufacturing       (a)         225       Footwear manufacturing       1352       Footwear manufacturing       (a)         226       Leather and leather product manufacturing       132       product manufacturing       (a)         232       Manufacturing       132       product manufacturing       (a)         235       Footwear manufacturing       132       product manufacturing       (a)         241       Printing and paper product       Leather tanning, fur dressing and leather       (a)         232-233       manufacturing       Discontinued, split into 149, 15       (c)         241       Printing and services to printing       Discontinued, split into 149, 15       (c)         2	218	Beverage and malt manufacturing	121	Beverage manufacturing	(b)
219       Tobacco product manufacturing       122       Cigarette and tobacco product manufacturing       (a)         Textile fibre, yarn and woven fabric       Imanufacturing       131       Textile manufacturing       (a)         221       manufacturing       133       Textile manufacturing       (a)         223       Knitting mills       134       Knitting mounfacturing       (a)         224       Clothing manufacturing       1351       Clothing manufacturing       (a)         225       Footwear manufacturing       1352       Footwear manufacturing       (a)         226       Leather and leather product manufacturing       132       product manufacturing       (a)         232–233       manufacturing       Discontinued, split into 149, 15       -       -         232–233       manufacturing       Discontinued, split into 149, 15       -       -         232–233       manufacturing       (c)       -       -       -         232–234       manufacturing       Discontinued, split into 152, 161       -       -       -         232–233       manufacturing       Discontinued, included in 541       -       -       -       -         241       Printing and services to printing       Discontinued, included in 5					, <i>i</i>
Textile fibre, yarn and woven fabric       131       Textile manufacturing       131         221       manufacturing       131       Textile product manufacturing       (a)         223       Knitting mills       134       Knitting product manufacturing       (a)         223       Knitting mills       134       Knitting product manufacturing       (a)         224       Clothing manufacturing       1351       Clothing manufacturing       (a)         225       Footwear manufacturing       132       product manufacturing       (a)         226       Leather and leather product manufacturing       132       product manufacturing       (a)         232       manufacturing       132       product manufacturing       (a)         235       Footwear manufacturing       (a)       (a)         246       Leather and leather product manufacturing       (b)         237       manufacturing       132       product manufacturing       (c)         241       Printing and services to printing       Discontinued, split into 152, 161       (c)         242       Publishing       Discontinued, included in S41       (c)         253       Recorded media manufacturing       182       Basic polymer manufacturing       (a)	219	Tobacco product manufacturing	122	Cigarette and tobacco product manufacturing	(a)
221     manufacturing     131     Textile product manufacturing     (a)       222     Textile product manufacturing     133     Textile product manufacturing     (a)       223     Knitting mills     134     Knitting product manufacturing     (a)       224     Clothing manufacturing     1351     Clothing manufacturing     (a)       225     Footwear manufacturing     132     Footwear manufacturing     (a)       226     Leather and leather product manufacturing     132     product manufacturing     (a)       232–233     manufacturing     132     product manufacturing     (c)       232–233     manufacturing     149     Other wood product manufacturing     (c)       232–233     manufacturing     151     Pulp, paper and paper product     (c)       232–233     manufacturing     151     Pulp, paper and paper product     (c)       232–233     manufacturing     151     Pulp, paper and paper product     (c)       241     Printing and services to printing     Discontinued, split into 152, 161     (c)       241     Printing and services to printing     Discontinued, included in 541     (c)       242     Publishing     Discontinued, included in 541     (c)       243     Recorded media manufacturing and publishing     Dis		Textile fibre, yarn and woven fabric			. /
222       Textile product manufacturing       133       Textile product manufacturing       (a)         223       Knitting mills       134       Knitting product manufacturing       (a)         224       Clothing manufacturing       1351       Clothing manufacturing       (a)         225       Footwear manufacturing       1352       Footwear manufacturing       (a)         226       Leather and leather product manufacturing       132       product manufacturing       (a)         226       Manufacturing       132       product manufacturing       (a)         227-233       manufacturing       Discontinued, split into 149, 15       (c)         232-233       manufacturing       Discontinued, split into 149, 15       (c)         241       Printing and services to printing       Discontinued, split into 152, 61       (c)         241       Printing and services to printing       Discontinued, included in 541       (c)         242       Publishing       Discontinued, split into 152, 164       (c)         243       Recorded media manufacturing and publishing       Discontinued, included in 541       (c)         254       Petroleum refining and petroleum fuel       (c)       (c)         254       Recorded media manufacturing       182	221	manufacturing	131	Textile manufacturing	(a)
223       Knitting mills       134       Knitting product manufacturing       (a)         224       Clothing manufacturing       1351       Clothing manufacturing       (a)         225       Footwear manufacturing       1352       Footwear manufacturing       (a)         226       Leather and leather product manufacturing       132       product manufacturing       (a)         226       Leather and leather product manufacturing       132       product manufacturing       (a)         227–233       manufacturing       Discontinued, split into 149, 15       (a)         232–233       manufacturing       Discontinued, split into 152, 161       (c)         241       Printing and services to printing       Discontinued, split into 152, 161       (c)         241       Printing and services to printing       Discontinued, included in 541       (c)         242       Publishing       Discontinued, included in 541       (c)         243       Recorded media manufacturing and publishing       Discontinued       S41       publishing       (a)         251       Petroleum refining       1701       manufacturing       (a)         253       Basic chemical manufacturing       Discontinued, split into 184, 185, 189, 191       (c)         254 <t< td=""><td>222</td><td>Textile product manufacturing</td><td>133</td><td>Textile product manufacturing</td><td>(a)</td></t<>	222	Textile product manufacturing	133	Textile product manufacturing	(a)
224       Clothing manufacturing       1351       Clothing manufacturing       (a)         225       Footwear manufacturing       1352       Footwear manufacturing       (a)         226       Leather and leather product manufacturing       132       product manufacturing       (a)         226       Leather and leather product manufacturing       132       product manufacturing       (a)         232–233       manufacturing       132       product manufacturing       (c)         232–233       manufacturing       Discontinued, split into 149, 15       (c)         232–233       manufacturing       (c)       (c)       (c)         232–233       manufacturing       Discontinued, split into 149, 15       (c)         241       Printing and services to printing       Discontinued, split into 152, 161       (c)         242       Publishing       Discontinued, included in 541       (c)         243       Recorded media manufacturing and publishing       Discontinued       Newspaper, periodical, book and directory publishing       (c)         251       Petroleum refining       1701       manufacturing       (a)         253       Basic chemical manufacturing       Discontinued, split into 184, 185, 189, 191       (c)         254       Other	223	Knitting mills	134	Knitting product manufacturing	(a)
225     Footwear manufacturing     1352     Footwear manufacturing     (a)       226     Leather and leather product manufacturing     132     product manufacturing     (a)       232-233     manufacturing     132     product manufacturing     (a)       232-233     manufacturing     Discontinued, split into 149, 15     (c)       232-233     manufacturing     Discontinued, split into 149, 15     (c)       241     Printing and services to printing     Discontinued, split into 152, 161     (c)       241     Printing and services to printing     Discontinued, split into 152, 161     (c)       242     Publishing     Discontinued, included in 541     (c)       243     Recorded media manufacturing and publishing     Discontinued, included in 541     (c)       243     Recorded media manufacturing and publishing     Discontinued, split into 184, 185, 189, 191     (a)       251     Petroleum refining     1701     manufacturing     (b)       253     Basic chemical manufacturing     182     Basic polymer manufacturing     (c)       254     Other chemical product manufacturing     184     manufacturing     (c)       254     Basic chemical manufacturing     182     Basic polymer manufacturing     (c)       255     Ruber product manufacturing     189	224	Clothing manufacturing	1351	Clothing manufacturing	(a)
226       Leather and leather product manufacturing       132       product manufacturing       (a)         232-233       manufacturing       Discontinued, split into 149, 15       (a)         232-233       manufacturing       Discontinued, split into 149, 15       (c)         232-233       manufacturing       151       Pulp, paper and paperboard manufacturing       (c)         241       Printing and services to printing       Discontinued, split into 152, 161       (c)         241       Printing and services to printing       Discontinued, split into 152, 161       (c)         242       Publishing       Discontinued, included in 541       (c)         243       Recorded media manufacturing and publishing       Discontinued       (c)         243       Recorded media manufacturing and publishing       Discontinued       (a)         251       Petroleum refining       1701       manufacturing       (a)         253       Basic chemical product manufacturing       Discontinued, split into 184, 185, 189, 191       (c)         254       Other chemical product manufacturing       Discontinued, split into 184, 185, 189, 191       (c)         254       Other chemical product manufacturing       Discontinued, split into 184, 185, 189, 191       (c)         254       Other chemical	225	Footwear manufacturing	1352	Footwear manufacturing	(a)
226       Leather and leather product manufacturing       132       product manufacturing       (a)         232–233       manufacturing       Discontinued, split into 149, 15				Leather tanning, fur dressing and leather	
Other wood, paper and paper product manufacturing     Discontinued, split into 149, 15       232–233     manufacturing     149     Other wood product manufacturing     (c)       241     Printing and services to printing     Discontinued, split into 152, 161     respective       241     Printing and services to printing     Discontinued, split into 152, 161     respective       241     Printing and services to printing     Discontinued, split into 152, 161     respective       242     Publishing     Discontinued, included in 541     respective       243     Recorded media manufacturing and publishing     Newspaper, periodical, book and directory 541     publishing       251     Petroleum refining     170     Petroleum refining and petroleum fuel manufacturing     (a)       253     Basic chemical product manufacturing     Discontinued, split into 184, 185, 189, 191     respective       254     Other chemical product manufacturing     Discontinued, split into 184, 185, 189, 191     respective       264     Recorded media manufacturing     Discontinued, split into 184, 185, 189, 191     respective       254     Other chemical product manufacturing     Discontinued, split into 184, 185, 189, 191     respective       254     Other chemical product manufacturing     182     manufacturing     (c)       255     Rubber product manufacturing     189	226	Leather and leather product manufacturing	132	product manufacturing	(a)
232–233     manufacturing     Discontinued, split into 149, 15     (c)       149     Other wood product manufacturing     (c)       151     Pulp, paper and paperboard manufacturing     (c)       241     Printing and services to printing     Discontinued, split into 152, 161     (c)       241     Printing and services to printing     Discontinued, split into 152, 161     (c)       241     Printing and services to printing     Discontinued, include in 541     (c)       242     Publishing     Discontinued, include in 541     (c)       243     Recorded media manufacturing and publishing     Discontinued     (c)       243     Recorded media manufacturing and publishing     Discontinued     (c)       251     Petroleum refining     1701     manufacturing     (a)       254     Other chemical product manufacturing     Discontinued, split into 184, 185, 189, 191     (c)       254     Other chemical product manufacturing     Discontinued, split into 184, 185, 189, 191     (c)       264     Other chemical product manufacturing     (c)     (c)       255     Rubber product manufacturing     191     Polymer product manufacturing     (c)       255     Rubber product manufacturing     Discontinued, included in 191 (part)     (c)       256     Plastic product manufacturing		Other wood, paper and paper product			
Image: second	232–233	manufacturing	Discontinued, s	plit into 149, 15	
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241     Printing and services to printing     Discontinued, split into 152, 161       Image: Converted paper product manufacturing     (c)       161     Printing and printing support services     (c)       242     Publishing     Discontinued, included in 541     Image: Converted paper product manufacturing     (c)       243     Recorded media manufacturing and publishing     Newspaper, periodical, book and directory publishing     (c)       243     Recorded media manufacturing and publishing     Discontinued     Petroleum refining and petroleum fuel     (c)       251     Petroleum refining     1701     manufacturing     (a)       253     Basic chemical manufacturing     Discontinued, split into 184, 185, 189, 191     (b)       254     Other chemical product manufacturing     Discontinued, split into 184, 185, 189, 191     (c)       254     Other chemical product manufacturing     Discontinued, split into 184, 185, 189, 191     (c)       254     Other chemical product manufacturing     (c)     (c)       254     Other chemical product manufacturing     (c)     (c)       255     Rubber product manufacturing     185     manufacturing     (c)       255     Rubber product manufacturing     192     Natural rubber product manufacturing     (b)       256     Plastic product manufacturing     Discontinued			151	Pulp, paper and paperboard manufacturing	(c)
152       Converted paper product manufacturing       (c)         161       Printing and printing support services       (c)         242       Publishing       Discontinued, included in 541       (c)         243       Recorded media manufacturing and publishing       Newspaper, periodical, book and directory publishing       (c)         243       Recorded media manufacturing and publishing       Discontinued       (c)         243       Recorded media manufacturing and publishing       Discontinued       (c)         251       Petroleum refining       1701       manufacturing       (a)         253       Basic chemical manufacturing       182       Basic polymer manufacturing       (b)         254       Other chemical product manufacturing       Discontinued, split into 184, 185, 189, 191       (c)         254       Other chemical product manufacturing       184       manufacturing       (c)         184       manufacturing       (c)       (c)       (c)         185       manufacturing       (c)       (c)         255       Rubber product manufacturing       191       Polymer product manufacturing       (b)         256       Plastic product manufacturing       Discontinued, included in 191 (part)       (b)         256 <td< td=""><td>241</td><td>Printing and services to printing</td><td>Discontinued, s</td><td>plit into 152, 161</td><td></td></td<>	241	Printing and services to printing	Discontinued, s	plit into 152, 161	
242       Publishing       Discontinued, included in 541          242       Publishing       Newspaper, periodical, book and directory publishing          243       Recorded media manufacturing and publishing       Discontinued          243       Recorded media manufacturing and publishing       Discontinued          243       Recorded media manufacturing and publishing       Discontinued          251       Petroleum refining       1701       manufacturing       (a)         253       Basic chemical manufacturing       182       Basic polymer manufacturing       (b)         254       Other chemical product manufacturing       Discontinued, split into 184, 185, 189, 191           254       Other chemical product manufacturing       184       manufacturing       (c)         254       Other chemical product manufacturing       184       manufacturing       (c)         184       manufacturing       (c)       (c)       (c)         255       Rubber product manufacturing       191       Polymer product manufacturing       (b)         255       Plastic product manufacturing       192       Natural rubber product manufacturing       (b)         256       Plastic product manufacturing			152	Converted paper product manufacturing	(c)
242       Publishing       Discontinued, included in 541       Image: Continued in 541         243       Recorded media manufacturing and publishing       Discontinued       Image: Continued in 541       Image: Continued in 541         243       Recorded media manufacturing and publishing       Discontinued       Image: Continued in 541       Image: Contineod in 541 <t< td=""><td></td><td></td><td>161</td><td>Printing and printing support services</td><td>(c)</td></t<>			161	Printing and printing support services	(c)
243       Recorded media manufacturing and publishing       Discontinued       (c)         243       Recorded media manufacturing and publishing       Discontinued       (c)         243       Recorded media manufacturing and publishing       Discontinued       (c)         251       Petroleum refining       1701       manufacturing       (a)         253       Basic chemical manufacturing       Discontinued, split into 184, 185, 189, 191       (a)         254       Other chemical product manufacturing       Discontinued, split into 184, 185, 189, 191       (c)         254       Other chemical product manufacturing       Discontinued, split into 184, 185, 189, 191       (c)         254       Other chemical product manufacturing       Discontinued, split into 184, 185, 189, 191       (c)         254       Other chemical product manufacturing       Discontinued, split into 184, 185, 189, 191       (c)         254       Other chemical product manufacturing       (c)       (c)       (c)         255       Rubber product manufacturing       192       Natural rubber product manufacturing       (b)         255       Plastic product manufacturing       Discontinued, included in 191 (part)       (c)	242	Publishing	Discontinued, ir	ncluded in 541	
243       Recorded media manufacturing and publishing       Discontinued       Image: Content of the petroleum refining and petroleum fuel       Recorded media manufacturing       Petroleum refining and petroleum fuel       Image: Content of the petroleum refining and petroleum fuel       Recorded media manufacturing       Image: Content of the petroleum refining and petroleum fuel       Image: Content of the petroleum refining and petroleum fuel       Image: Content of the petroleum refining and petroleum fuel       Image: Content of the petroleum refining and petroleum fuel       Image: Content of the petroleum refining and petroleum fuel       Image: Content of the petroleum refining and petroleum fuel       Image: Content of the petroleum refining and petroleum fuel       Image: Content of the petroleum refining and petroleum fuel       Image: Content of the petroleum refining and petroleum fuel       Image: Content of the petroleum refining and petroleum fuel       Image: Content of the petroleum refining and petroleum fuel       Image: Content of the petroleum refining and petroleum fuel       Image: Content of the petroleum fuel				Newspaper, periodical, book and directory	
243       Recorded media manufacturing and publishing       Discontinued       Petroleum refining and petroleum fuel       (a)         251       Petroleum refining       1701       manufacturing       (a)         253       Basic chemical manufacturing       182       Basic polymer manufacturing       (b)         254       Other chemical product manufacturing       Discontinued, split into 184, 185, 189, 191       -       -         254       Other chemical product manufacturing       Discontinued, split into 184, 185, 189, 191       -       -         254       Other chemical product manufacturing       Discontinued, split into 184, 185, 189, 191       -       -         264       Other chemical product manufacturing       Discontinued, split into 184, 185, 189, 191       -       -         265       Rubber product manufacturing       185       manufacturing       (c)         255       Rubber product manufacturing       192       Natural rubber product manufacturing       (b)         256       Plastic product manufacturing       Discontinued, included in 191 (part)       -       (c)			541	publishing	(c)
243       Recorded media manufacturing and publishing Discontinued       Petroleum refining and petroleum fuel         251       Petroleum refining       1701       manufacturing       (a)         253       Basic chemical manufacturing       182       Basic polymer manufacturing       (b)         254       Other chemical product manufacturing       Discontinued, split into 184, 185, 189, 191       (c)         254       Other chemical product manufacturing       I84       manufacturing       (c)         254       Cleaning compound and toiletry preparation       (c)         254       I85       manufacturing       (c)         254       I85       manufacturing       (c)         255       Rubber product manufacturing       191       Polymer product manufacturing       (c)         255       Rubber product manufacturing       192       Natural rubber product manufacturing       (b)         256       Plastic product manufacturing       Discontinued, included in 191 (part)       (c)					
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253       Basic chemical manufacturing       182       Basic polymer manufacturing       (b)         254       Other chemical product manufacturing       Discontinued, split into 184, 185, 189, 191          254       Other chemical product manufacturing       Discontinued, split into 184, 185, 189, 191          254       Pharmaceutical and medicinal product       184       manufacturing       (c)         254       Cleaning compound and toiletry preparation       (c)         255       Mathematical product manufacturing       (c)         255       Rubber product manufacturing       191       Polymer product manufacturing       (c)         255       Plastic product manufacturing       Discontinued, included in 191 (part)       (b)         256       Plastic product manufacturing       Discontinued, included in 191 (part)       (c)	251	Petroleum refining	1/01	manufacturing	(a)
254       Other chemical product manufacturing       Discontinued, split into 184, 185, 189, 191       Image: Control of the chemical product manufacturing       Image: Control of the chemical product manufactur	253	Basic chemical manufacturing	182 Discontinued a	Basic polymer manufacturing	(b)
184       manufacturing       (c)         Cleaning compound and toiletry preparation       185       Cleaning compound and toiletry preparation         185       manufacturing       (c)         185       manufacturing       (c)         189       Other basic chemical product manufacturing       (c)         255       Rubber product manufacturing       191       Polymer product manufacturing       (c)         256       Plastic product manufacturing       Discontinued, included in 191 (part)       (c)	254	Other chemical product manufacturing	Discontinued, s	plit Into 184, 185, 189, 191	
184       manufacturing       (C)         Cleaning compound and toiletry preparation       185       Cleaning compound and toiletry preparation         185       manufacturing       (C)         185       manufacturing       (C)         189       Other basic chemical product manufacturing       (C)         191       Polymer product manufacturing       (C)         255       Rubber product manufacturing       192       Natural rubber product manufacturing       (b)         256       Plastic product manufacturing       Discontinued, included in 191 (part)       (C)			104		( )
185       manufacturing       (c)         185       manufacturing       (c)         189       Other basic chemical product manufacturing       (c)         191       Polymer product manufacturing       (c)         255       Rubber product manufacturing       192       Natural rubber product manufacturing       (b)         256       Plastic product manufacturing       Discontinued, included in 191 (part)       (c)			104	Cleaning compound and toiletry preparation	(C)
183     Infandracturing     (c)       189     Other basic chemical product manufacturing     (c)       191     Polymer product manufacturing     (c)       255     Rubber product manufacturing     192     Natural rubber product manufacturing     (b)       256     Plastic product manufacturing     Discontinued, included in 191 (part)     (c)			105	manufacturing	(c)
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255     Rubber product manufacturing     191     Polymer product manufacturing     (c)       256     Plastic product manufacturing     Discontinued, included in 191 (part)     (b)			190	Other basic chemical product manufacturing	(c)
255     Rubber product manufacturing     192     Natural rubber product manufacturing     (b)       256     Plastic product manufacturing     Discontinued, included in 191 (part)     (c)			101	Polymer product manufacturing	(c)
256     Plastic product manufacturing     152     Induct manufacturing     (b)       256     Plastic product manufacturing     Discontinued, included in 191 (part)     (c)	255	Rubber product manufacturing	191	Natural rubber product manufacturing	(c) (b)
101 Dolymer product manufacturing (c)	256	Plastic product manufacturing	Discontinued in	ncluded in 191 (nart)	(5)
			191	Polymer product manufacturing	(c)

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271	Iron and steel manufacturing	Discontinued,	included in 212 (part)	
				1
		212	Basic ferrous metal product manufacturing	(c)
	Non–ferrous basic metal product		Basic non–ferrous metal product	
273	manufacturing	214	manufacturing	(a)
275	Sheet metal product manufacturing	Discontinued,	included in 223 (part)	
		223	Metal container manufacturing	(c)
				1
276	Fabricated metal product manufacturing	229	Other fabricated metal product manufacturing	(b)
			Motor vehicle and motor vehicle part	
281	Motor vehicle and part manufacturing	231	manufacturing	(b)
282	Other transport equipment manufacturing	239	Other transport equipment manufacturing	(b)
	Photographic and scientific equipment		Professional and scientific equipment	1
283	manufacturing	241	manufacturing	(b)
			Computer and electronic equipment	
284	Electronic equipment manufacturing	242	manufacturing	(b)
	Electrical equipment and appliance			
285	manufacturing	Discontinued,	split into 243, 244	
		243	Electrical equipment manufacturing	(c)
		244	Domestic appliance manufacturing	(c)
	Industrial machinery and equipment			
286	manufacturing	Discontinued,	ntinued, split into 245, 246, 249	
			Pump, compressor, heating and ventilation	
		245	equipment manufacturing	(c)
			Specialised machinery and equipment	1 · · ·
		246	manufacturing	(c)
			Other machinery and equipment	1
		249	manufacturing	(c)
29	Other manufacturing	25	Furniture and other manufacturing	(b)
			Electricity supply; gas supply; and water	1 · · ·
36–37	Electricity, gas and water supply	26–28	supply, sewerage and drainage services	(b)
411	Building construction	30	Building construction	(a)
412	Non-building construction	Discontinued		1
		3101	Road and bridge construction	(c)
571	Accommodation	440	Accommodation	(a)
				1 · · ·
		451	Cafes, restaurants and takeaway food services	(c)
611	Road freight transport	461	Road freight transport	(b)
620	Rail transport	471	Rail freight transport	(b)
630–640	Water, air and space transport	481	Water freight transport	(b)
66	Services to transport	Discontinued		
772	Real estate agents	672	Real estate services	(b)
782	Technical services	Discontinued,	included in 692 (part)	
			Architectural, engineering and technical	1
		692	services	(c)
783	Computer services	Discontinued,	split into 592, 700	
	P		Data processing, web hosting and electronic	1
		592	information storage services	(c)
				,
		700	Computer system design and related services	(c)
784	Legal and accounting services	693	Legal and accounting services	(b)
		697	Veterinary services	(c)
Footnotes:	(a) Series continuing, (b) Series continuing with co	mpositional chan	ge. (c) New series.	<u>N°/</u>

ABS  $\cdot$  IMPLEMENTATION OF THE REVIEW OF THE PRODUCER AND INTERNATIONAL TRADE PRICE INDEXES  $\cdot$  6427.0.55.005  $\cdot$ 

## TABLE 2 STAGE OF PRODUCTION, INTERMEDIATE DEMAND, Australian and New Zealand Standard Industrial Classification (ANZSIC) 1993 to 2006 Correspondence Table

ANZSIC 1993         ANZSIC 2006         Becomes         Status           012-013         Grain, sheep, beef and dairy cattle farming         014,016         Sheep, beef cattle and grain farming; and dairy         (a)           011,014-016         Other agriculture         017-019         Other agriculture         (b)           02         Services to agriculture; hunting and trapping         Discontinued, included in 04 (part)         (b)           03         Coal mining         060         Coal mining         (a)           120         Oil and gas extraction         070         Dil and gas extraction         (a)           121         Metal ore mining         09         Non-metallic mineral mining and quarying         (a)           121         Metal and meat product manufacturing         111         Meet and meat product manufacturing         (a)           121         Mate and meat product manufacturing         112         Fair and vegetable processing; oil and fat         (b)           121-11         Meet and meat product manufacturing         112         Safedod processing         (a)           212         Fair and vegetable processing; oil and fat         Fuir and vegetable processing; oil and fat         (a)           121-214         manufacturing         112         Safedod processing         (a) </th <th>Table 8 of Prod</th> <th>ucer Price Indexes, Australia (cat. no. 6427.0)</th> <th></th> <th></th> <th></th>	Table 8 of Prod	ucer Price Indexes, Australia (cat. no. 6427.0)			
ANZSC (2005         Becomes         Status           012-013         Grain, sheep, beef and dairy cattle farming         (014, 016         Cattle farming         (014, 016           011, 014-016         Other agriculture         (017-019         Other agriculture         (b)           012         Services to agriculture; hunting and trapping         (b)         (b)         (c)           02         Services to agriculture; hunting and trapping         (b)         (c)         (c)           030         Oli and gas extraction         (c)         (c)         (c)           04         Commercial fishing         (d)         (f) fishing         (e)           131         Metal ore mining         (d)         (f) fishing         (g)           132         Other mining         (d)         (f) fishing         (g)           131         Metal ore mining         (d)         (f)         (g)           132         Dairy product manufacturing         113         Metal and metal product manufacturing         (g)           132         Pairy product manufacturing         114         H4-115         manufacturing         (g)           212         Pairy product manufacturing         115         Grain mill and cereal product manufacturing         (g)     <					
Sheep, beef and dairy cattle farming     U14, 016     Cattle farming; and dairy       011, 014-016     Other agriculture     017-019     Other agriculture     (b)       02     Services to agriculture; hunting and trapping     Discontinued, included in 04 (part)     (b)       03     Commercial fishing     041     Fishing     (b)       04     Commercial fishing     060     Coal mining     (a)       1010     Coal mining     060     Coal mining     (a)       1220     Oil and gas extraction     070     Dil and gas extraction     (a)       131     Metal ore mining     09     Non-metallic mineral mining and quarying     (a)       121     Metal and mest product manufacturing     113     Metal ore mining     (a)       121     Metal and mest product manufacturing     113     Dairy product manufacturing     (a)       121     Metal and mest product manufacturing     114     The triat and vegetable processing; oil and fat     Firuit and vegetable processing; oil and fat       121.1     Metal and mest product manufacturing     115     Bakery product manufacturing     (a)       212     Flour mill and cereal food manufacturing     116     Sagar and confectionery manufacturing     (b)       213     Metal and mest product manufacturing     117     Bakery product manufactur	ANZSIC 1993		ANZSIC 2006	Becomes	Status
012-013     Grain, sheep, beef and dairy cattle farming     014, 016     Cattle farming     (a)       011, 014-016     Other agriculture     017-013, 015, 016, 017-019     Other agriculture     (b)       02     Services to agriculture, hunting and trapping     Discontinued, included in 04 (part)     (b)       04     Commercial fishing     060     Coal mining     (a)       110     Coal mining     060     Coal mining     (a)       120     Oil and gas extraction     070     Oil and gas extraction     (a)       131     Metal ore mining     080     Metal ore mining and guarying     (a)       121     Metal and meat product manufacturing     111     Meat and meat product manufacturing     (a)       122     Dairy product manufacturing     113     Dairy product manufacturing     (a)       121-214     manufacturing     116     Grain mill and cereal product manufacturing     (a)       215     Flour mill and cereal food manufacturing     112     Seafood processing     (b)       121     Bakery product manufacturing     112     Seafood processing     (c)       216     Bakery product manufacturing     112     Seafood processing     (c)       217     Other food manufacturing     112     Seafood processing     (c)       218				Sheep, beef cattle and grain farming; and dairy	
011-013, 015,     011-013, 015,       011-014, 016     Other agriculture     (b)       02     Services to agriculture; hunting and trapping     Discontinued, included in 04 (part)       04     Commercial fishing     041     Fishing     (b)       03     Other agriculture; hunting and trapping     050     Coal mining     (a)       101     Coal mining     050     Coal mining     (a)       120     Oil and gas extraction     070     001 and gas extraction     (a)       131     Metal ore mining     09     Non-metallic mineral mining and quarrying     (a)       121     Meat and meat product manufacturing     111     Meat and meat product manufacturing     (a)       121-2-14     manufacturing     114     115     manufacturing     (a)       215     Flour mill and cereal food manufacturing     116     Grain mill and cereal product manufacturing     (a)       216     Bakery product manufacturing     112     Serdood processing     (c)       216     Bakery product manufacturing     112     Beerdood processing     (c)       218     Beverage and malt manufacturing     121     Beerdood processing     (c)       218     Beverage and malt manufacturing     13     manufacturing     (b)       218     Bever	012-013	Grain, sheep, beef and dairy cattle farming	014,016	cattle farming	(a)
011,014-016     Other agriculture     (b)       02     Services to agriculture; hunting and trapping     Discontinued, included in 04 (part)       04     Commercial fishing     (b)       110     Coal mining     (b)       120     Oil and gas extraction     (b)       131     Metal ore mining     080     Metal ore mining     (a)       132     Other mining     09     Non-metallic mineral mining and quarying     (a)       131     Metal ore mining     09     Non-metallic mineral mining and quarying     (a)       14     Other mining     09     Non-metallic mineral mining and quarying     (a)       121     Dairy product manufacturing     113     Dairy product manufacturing     (a)       213     Fruit and wegetable processing; oil and fat     Fruit and wegetable processing; oil and fat     (b)       214     Bakery product manufacturing     116     Grain mill and cereal product manufacturing     (b)       215     Flour mil and cereal food manufacturing     112     Seafood processing     (c)       215     Bakery product manufacturing     112     Seafood processing     (c)       216     Bakery product manufacturing     121     Seafood processing     (c)       217     Other food product manufacturing     (c)     (c)   <			011–013, 015,		
O2         Services to agriculture; hunting and trapping         Discontinued, included in 04 (part)         Image: https://www.action.com/image: https://www.action.c	011, 014–016	Other agriculture	017–019	Other agriculture	(b)
22         Services to agriculture, number and taging         Decimination (1997)           24         Commercial fishing         041         Fishing         (a)           110         Coal mining         060         Coal mining         (a)           110         Coal mining         060         Coal mining         (a)           111         Metal ore mining         080         Metal ore mining and quarrying         (a)           111         Metal and meat product manufacturing         111         Metal and meat product manufacturing         (a)           112         Dairy product manufacturing         113         Dairy product manufacturing         (a)           112         Dairy product manufacturing         114         Fruit and vegetable processing; oil and fat         (a)           113         Dairy product manufacturing         115         Grain mill and cereal product manufacturing         (a)           114         Discrimed, split roit 2, 113, 119, 121 (print)         (b)         (c)         (c)           115         Flour manufacturing         112         Serverage manufacturing         (c)           116         Grain mill and cereal product manufacturing         (c)         (c)         (c)           116         Beverage and malt manufacturing         11	02	Consists to opticulture, hunting and transing	Discontinued	included in O4 (next)	
04         Columning         041         Priming         (d)           10         Coal mining         060         Coal mining         (a)           120         Oil and gas extraction         070         Oil and gas extraction         (a)           131         Metal ore mining         080         Metal ore mining         (a)           14         Other mining         09         Non-metallic mineral mining and quarrying         (a)           14         Meat and meat product manufacturing         111         Meat and meat product manufacturing         (a)           1212         Dairy product manufacturing         113         Dairy product manufacturing         (a)           1213         Meat and meat product manufacturing         (a)         Full and vegetable processing; oil and fat         (a)           1214         manufacturing         117         Bakery product manufacturing         (a)           1216         Bakery product manufacturing         (b)         (c)         (c)           1217         Other food manufacturing         112         Seafood processing         (c)           1218         Beverage and malt manufacturing         121         Beverage and malt manufacturing         (c)           1218         Beverage pan pace pace pace pacenal pace	02	Services to agriculture; nunting and trapping	Discontinued, I	Fishing	(h)
110       Cola mining       Columning       Columning       (a)         120       Cola and gas extraction       (b)       Cola mining       (a)         131       Metal ore mining       O80       Metal ore mining and quarying       (a)         14       Other mining       O9       Non-metallic mineral mining and quarying       (a)         121       Dairy product manufacturing       111       Metal and meat product manufacturing       (a)         121       Dairy product manufacturing       113       Dairy product manufacturing       (a)         121       Bakery product manufacturing       114-115       manufacturing       (a)         215       Flour mill and cereal food manufacturing       116       Grain mill and cereal product manufacturing       (a)         216       Bakery product manufacturing       117       Bakery product manufacturing       (a)         217       Other food manufacturing       112       Seafood processing       (c)         218       Beverage and malt manufacturing       121       Beverage manufacturing       (c)         218       Beverage and malt manufacturing       121       Beverage manufacturing       (d)         221       Textile, clothing and footwear       manufacturing       (d)       (d	04		041	Fishing	(d) (a)
120     Oli and gas extraction     070     Oli and gas extraction     (a)       131     Metal ore mining     080     Metal ore mining     (a)       14     Other mining     09     Non-metallic mineral mining and quarrying     (a)       211     Dairy product manufacturing     111     Metal and meat product manufacturing     (a)       212     Dairy product manufacturing     113     Dairy product manufacturing     (a)       213     Fluit and vegetable processing; oil and fat     Fruit and vegetable processing; oil and fat     (a)       214     manufacturing     114–115     manufacturing     (a)       215     Flour mill and cereal food manufacturing     116     Grain mill and cereal product manufacturing     (a)       216     Bakery product manufacturing     112     Seafood processing     (c)       216     Bakery product manufacturing     (c)     (c)     (c)       217     Other food manufacturing     112     Seafood processing     (c)       218     Beverage and malt manufacturing     121     Beverage and confectionery manufacturing     (a)       218     Beverage and malt manufacturing     141     Log sawmilling and timber dressing     (b)       219     Other wood product manufacturing     152     (c)     (a)       <	110		060		(a)
131     Metal of er mining     09     Non-metallic mineral mining and quarrying     (a)       14     Other mining     09     Non-metallic mineral mining and quarrying     (a)       211     Meat and meat product manufacturing     113     Dairy product manufacturing     (a)       212     Dairy product manufacturing     113     Dairy product manufacturing     (a)       213     Fruit and vegetable processing; oil and fat     manufacturing     (a)       214     Flour mill and cereal food manufacturing     116     Grain mill and cereal product manufacturing     (a)       215     Flour mill and cereal food manufacturing     117     Bakery product manufacturing     (c)       216     Bakery product manufacturing     112     Seafood product manufacturing     (c)       217     Other food manufacturing     112     Seafood product manufacturing     (c)       218     Beverage and mat manufacturing     121     Beverage manufacturing     (b)       218     Beverage and mat manufacturing     141     Log savmilling and timber dressing     (d)       217     Other wood product manufacturing     151     Public pare and paper product manufacturing     (b)       218     Beverage and mat manufacturing     141     Log savmilling and timber dressing     (b)       219     Other wood	120	Oil and gas extraction	070	Oil and gas extraction	(a)
14     Other mining     09     Non-metallic mineral mining and quarrying     (a)       211     Meat and meat product manufacturing     111     Meat and meat product manufacturing     (a)       212     Dairy product manufacturing     113     Dairy product manufacturing     (a)       213-214     manufacturing     114-115     manufacturing     (a)       214     Flour mill and cereal food manufacturing     116     Grain mill and cereal product manufacturing     (a)       215     Flour mill and cereal food manufacturing     117     Bakery product manufacturing     (a)       216     Bakery product manufacturing     112     Seafood processing     (c)       217     Other food manufacturing     112     Seafood processing     (c)       218     Beverage and malt manufacturing     121     Beverage manufacturing     (a)       218     Beverage and malt manufacturing     141     Log sawmilling and timber dressing     141     Log sawmilling and timber dressing     (b)       22     manufacturing     151     Pulp, paper and paper broduct manufacturing     (b)       232     Other wood product manufacturing     152     Converted paper product manufacturing     (c)       241     Printing and perinting support services     (c)     Peteroleum refining and printing support services	131	Metal ore mining	080	Metal ore mining	(a)
111         Meat and meat product manufacturing         111         Meat and meat product manufacturing         (a)           212         Dairy product manufacturing         113         Dairy product manufacturing         (a)           212         Dairy product manufacturing         113         Dairy product manufacturing         (a)           213         Firult and vegetable processing; oil and fat         Firult and vegetable processing; oil and fat         (a)           214         manufacturing         116         Grain mill and cereal product manufacturing         (a)           215         Flour mill and cereal food manufacturing         117         Bakery product manufacturing         (a)           216         Bakery product manufacturing         112         Seafood processing         (c)           217         Other food manufacturing         (c)         (c)         (c)           218         Beverage and malt manufacturing         121         Beverage manufacturing         (b)           218         Deverage and malt manufacturing         13         manufacturing         (a)           22         manufacturing         141         Log sawmilling and timber dressing         (b)           231         Log sawmilling and timber dressing         144         Log sawmilling and printing support services (c	14	Other mining	09	Non-metallic mineral mining and quarrying	(a)
Dairy product manufacturing         112         Dairy product manufacturing         (a)           1212         Dairy product manufacturing         113         Dairy product manufacturing         (a)           123-214         manufacturing         114-115         manufacturing         (a)           215         Filour mill and cereal food manufacturing         116         Grain mill and cereal product manufacturing         (a)           216         Bakery product manufacturing         117         Bakery product manufacturing         (a)           217         Other food manufacturing         112         Seafood processing         (c)           218         Beverage and malt manufacturing         119         Other food product manufacturing         (b)           218         Beverage and malt manufacturing         13         manufacturing         (a)           219         Other wood product manufacturing         141         Log sawmilling and timber dressing         (b)           211         Log sawmilling and timber dressing         141         Log sawmilling and timber dressing         (b)           213         Log sawmilling and timber dressing         141         Log sawmilling and timber dressing         (b)           214         Printing and services to printing         Discontinued, split into 152, 161	211	Meat and meat product manufacturing	111	Meat and meat product manufacturing	(a)
Fruit and vegetable processing; oil and fat       Fruit and vegetable processing; oil and fat         213-214       manufacturing       114-115         Ploy Endexturing       Fruit and vegetable processing; oil and fat         215       Flour mill and cereal food manufacturing       116         216       Bakery product manufacturing       117         217       Other food manufacturing       112         217       Other food manufacturing       112         218       Beverage and confectionery manufacturing       (c)         218       Beverage and malt manufacturing       121         219       Other food product manufacturing       (c)         211       Log sawnilling and timber dressing       114         22       manufacturing       121       Beverage manufacturing       (b)         22       manufacturing       141       Log sawnilling and timber dressing       (b)         231       Log sawnilling and timber dressing       141       Log sawnilling and timber dressing       (b)         232       Other wood product manufacturing       151       Pulp, paper and paper porduct manufacturing       (c)         241       Printing and services to printing       Discontinued, split into 152, 161       (c)         254       Other wo	212	Dairy product manufacturing	113	Dairy product manufacturing	(a)
213-214     Instruction processing, inclusion     Instruction processing, inclusion     (a)       215     Flour mill and cereal food manufacturing     I16     Grain mill and cereal product manufacturing     (a)       216     Bakery product manufacturing     I17     Bakery product manufacturing     (a)       217     Other food manufacturing     Discontinued, split into 112, 118, 119, 121 (part)     (c)       217     Other food manufacturing     (c)     (c)       218     Beverage and malt manufacturing     (c)       218     Beverage and malt manufacturing     (l)     (c)       218     Beverage and malt manufacturing     (l)     (c)       219     Textile, clothing, footwear and leather     Textile, leather, clothing and timber dressing     (a)       22     manufacturing     13     manufacturing     (b)       231     Log sawnilling and timber dressing     141     Log sawnilling and timber dressing     (b)       232     Other wood product manufacturing     152     Converted paper product manufacturing     (c)       241     Printing and services to printing     Discontinued, split into 152, 161     (c)       242     Publishing     (c)     Petroleum refining and petroleum fuel       253     Basic chemical product manufacturing     (b)       254		Fruit and vegetable processing: oil and fat	110	Fruit and vegetable processing: oil and fat	(0)
215       Instructioning       114	213-214	manufacturing	11/-115	manufacturing	(2)
215       Flour mill and cereal food manufacturing       116       Grain mill and cereal product manufacturing       (a)         216       Bakery product manufacturing       117       Bakery product manufacturing       (a)         217       Other food manufacturing       Discontinued, split into 112, 118, 119, 121 (part)       (c)         218       Beverage and malt manufacturing       121       Beverage manufacturing       (c)         218       Beverage and malt manufacturing       121       Beverage manufacturing       (a)         211       Log sawmilling and timber dressing       141       Log sawmilling and timber dressing       (b)         22       Other wood product manufacturing       13       manufacturing       (a)         231       Log sawmilling and timber dressing       141       Log sawmilling and timber dressing       (b)         232       Other wood product manufacturing       152       Puler wood product manufacturing       (c)         241       Printing and services to printing       Discontinued, split into 152, 161       Pule         242       Publishing       Discontinued, split into 154, 161       Petroleum felining and petroleum fuel         253       Basic chemical manufacturing       182       Basic polymer manufacturing       (c)         254	213-214	manufacturing	114-115		(a)
213     Floor minimality derivation     110     Bakery product manufacturing     (a)       216     Bakery product manufacturing     117     Bakery product manufacturing     (a)       217     Other food manufacturing     Discontinued, split into 112, 118, 119, 121 (part)     (c)       218     Beverage and malt manufacturing     (c)     (c)       218     Beverage and malt manufacturing     (c)       218     Beverage and malt manufacturing     (c)       219     Textile, clothing, footwear and leather     Textile, leather, clothing and footwear       22     manufacturing     13     manufacturing     (a)       221     Log sawmilling and timber dressing     141     Log sawmilling and timber dressing     (b)       222     manufacturing     144     Other wood product manufacturing     (b)       231     Log sawmilling and timber dressing     141     Log sawmilling and timber dressing     (b)       232     Other wood product manufacturing     151     Pulp, paper and paperboard manufacturing     (c)       233     Paper and paper product manufacturing     151     Pulp, paper and paperboard manufacturing     (c)       241     Printing and services to printing     Discontinued, pilt into 152, 161     (c)     (c)       242     Publishing     Discontinued, included i	215	Flour mill and coreal food manufacturing	116	Crain mill and careal product manufacturing	(2)
215     Bakery product manufacturing     117     Deskery product manufacturing     (a)       217     Other food manufacturing     Discontinued, split into 112, 118, 119, 121 (part)     (c)       112     Seafood processing     (c)       113     Sugar and confectionery manufacturing     (c)       218     Beverage and malt manufacturing     111     Other food product manufacturing     (c)       218     Beverage and malt manufacturing     121     Beverage manufacturing     (d)       22     manufacturing     13     manufacturing     (d)       231     Log sawmilling and timber dressing     141     Log sawmilling and timber dressing     (b)       232     Other wood product manufacturing     151     Pulp, paper and paper product manufacturing     (b)       233     Paper and paper product manufacturing     152     Converted paper product manufacturing     (c)       241     Printing and services to printing     Discontinued, split into 152, 161     (c)       242     Publishing     Discontinued, included in S41     (d)       251     Petroleum refining     170     manufacturing     (a)       253     Basic chemical manufacturing     182     Basic polymer manufacturing     (b)       254     Other chemical product manufacturing     184     manufact	215	Pokery product manufacturing	110		(a)
217         Other Hood manufacturing         Discontinued, Split Into 119, 121 (part)           112         Seafood processing         (c)           118         Sugar and confectionery manufacturing         (c)           218         Beverage and malt manufacturing         121         Beverage manufacturing         (c)           218         Deverage and malt manufacturing         121         Beverage manufacturing         (c)           211         Deverage manufacturing         (d)         (d)         (d)           22         manufacturing         131         manufacturing         (a)           231         Log sawmilling and timber dressing         (b)         (d)           232         Other wood product manufacturing         151         Pulp, paper and paperboard manufacturing         (b)           233         Paper and paper product manufacturing         152         Converted paper product manufacturing         (c)           241         Printing and paper porduct manufacturing         152         Converted paper product manufacturing         (c)           242         Publishing         Discontinued, included in 541         Publishing         (c)           253         Basic chemical manufacturing         182         Basic chemical and medicinal product         (c) <t< td=""><td>216</td><td>Bakery product manufacturing</td><td>11/</td><td>Bakery product manufacturing</td><td>(a)</td></t<>	216	Bakery product manufacturing	11/	Bakery product manufacturing	(a)
112     Seardod processing     (c)       118     Sugar and confectionery manufacturing     (c)       218     Beverage and mait manufacturing     119     Other food product manufacturing     (b)       218     Beverage and mait manufacturing     121     Beverage manufacturing     (b)       218     Beverage and mait manufacturing     121     Beverage manufacturing     (b)       22     manufacturing     13     manufacturing and footwear     (a)       231     Log sawmilling and timber dressing     141     Log sawmilling and timber dressing     (b)       232     Other wood product manufacturing     151     Pulp, paper and paperborduct manufacturing     (c)       231     Paper and paper product manufacturing     152     Converted paper product manufacturing     (c)       241     Printing and printing support services     (c)     (c)       242     Publishing     Discontinued, included in 541     (c)       243     Basic chemical manufacturing     182     Basic polymer manufacturing     (a)       254     Other chemical product manufacturing     Discontinued, split into 184, 185, 189, 191     (c)       254     Other chemical product manufacturing     (c)     (c)     (c)       255     Rubber product manufacturing     Discontinued, included in 191 (part)<	217	Other food manufacturing	Discontinued, s	Split Into 112, 118, 119, 121 (part)	(-)
118       Sugar and Confectionery manufacturing       (c)         218       Beverage and malt manufacturing       121       Beverage manufacturing       (b)         218       Beverage and malt manufacturing       121       Beverage manufacturing       (b)         218       Beverage and malt manufacturing       121       Beverage manufacturing       (b)         22       manufacturing       13       manufacturing       (a)         231       Log sawmilling and timber dressing       141       Log sawmilling and timber dressing       (b)         232       Other wood product manufacturing       151       Pulp, paper and paper product manufacturing       (b)         233       Paper and paper product manufacturing       Discontinued, split into 152, 161       (c)         241       Printing and services to printing       Discontinued, included in 541       (c)         242       Publishing       Discontinued, included in 541       (c)         253       Basic chemical manufacturing       182       Basic polymer manufacturing       (b)         254       Other chemical product manufacturing       Discontinued, split into 184, 185, 189, 191       (c)         254       Deteroleum refining and petroleum fuel       (c)       (c)         254       Other chemica			112		(C)
119       Other tood product manufacturing       (c)         218       Beverage and malt manufacturing       (b)         Textile, clothing, footwear and leather       Textile, leather, clothing and footwear       (a)         22       manufacturing       13       manufacturing       (b)         231       Log sawmilling and timber dressing       141       Log sawmilling and timber dressing       (b)         232       Other wood product manufacturing       149       Other wood product manufacturing       (b)         233       Paper and paper product manufacturing       151       Pulp, paper and paperboard manufacturing       (c)         241       Printing and services to printing       Discontinued, split into 152, 161       (c)         242       Publishing       Discontinued, included in 541       (c)         243       Discontinued, included in 541       (c)         244       Publishing       Discontinued, included in 541       (c)         251       Petroleum refining and petroleum fuel       (c)       (c)         253       Basic chemical product manufacturing       Discontinued, split into 184, 185, 189, 191       (c)         254       Other chemical product manufacturing       Discontinued, split into 184, 185, 189, 191       (c)       (c)			118	Sugar and confectionery manufacturing	(C)
218         Beverage and mait manufacturing         121         Beverage manufacturing         (b)           Textile, clothing, footwear and leather         Textile, clothing and footwear         (a)           22         manufacturing         13         manufacturing         (a)           231         Log sawmilling and timber dressing         141         Log sawmilling and timber dressing         (b)           232         Other wood product manufacturing         151         Pulp, paper and paper product manufacturing         (b)           233         Paper and paper product manufacturing         151         Pulp, paper and paperpord manufacturing         (c)           241         Printing and services to printing         Discontinued, split into 152, 161         (c)           242         Publishing         Discontinued, included in 541         (c)           242         Publishing         (c)         541         publishing         (c)           251         Petroleum refining and petroleum fuel         manufacturing         (a)           253         Basic chemical manufacturing         182         Basic polymer manufacturing         (b)           254         Other chemical product manufacturing         184         manufacturing         (c)           254         Other chemical product man			119	Other food product manufacturing	(C)
1       13       Interviewer (conting and footwear and leather (conting and footwear and leather (conting and footwear and leather (conting and footwear (conting and timber dressing (context))       (context)         22       manufacturing and timber dressing (context)       141       Log sawmilling and timber dressing (context)       (context)         231       Log sawmilling and timber dressing (context)       141       Log sawmilling and timber dressing (context)       (context)         233       Paper and paper product manufacturing (context)       151       Pulp, paper and paperboard manufacturing (context)       (context)         241       Printing and services to printing (context)       152       Converted paper product manufacturing (context)       (context)         242       Publishing       Discontinued, included in 541       (context)       (context)         251       Petroleum refining (context)       Petroleum refining and petroleum fuel       (context)         253       Basic chemical manufacturing (context)       Discontinued, split into 184, 185, 189, 191       (context)         254       Other chemical product manufacturing (context)       182       Basic polymer manufacturing (context)       (context)         255       Rubber product manufacturing (context)       185       manufacturing (context)       (context)         256       Plastic product manufacturing (context) <td>218</td> <td>Beverage and malt manufacturing</td> <td>121</td> <td>Beverage manufacturing</td> <td>(b)</td>	218	Beverage and malt manufacturing	121	Beverage manufacturing	(b)
22       manufacturing       13       manufacturing       (a)         231       Log sawmilling and timber dressing       (b)         232       Other wood product manufacturing       141       Log sawmilling and timber dressing       (b)         233       Paper and paper product manufacturing       151       Pulp, paper and paper product manufacturing       (b)         241       Printing and services to printing       Discontinued, split into 152, 161       (c)         242       Publishing       Discontinued, pilt into 154, 161       (c)         242       Publishing       Discontinued, included in 541       (c)         244       Publishing       (c)       (c)         251       Petroleum refining       (c)       Petroleum refining and petroleum fuel         253       Basic chemical manufacturing       182       Basic polymer manufacturing       (a)         254       Other chemical product manufacturing       Discontinued, split into 184, 185, 189, 191       (c)         254       Other chemical product manufacturing       (c)       (c)       (c)         254       Other chemical product manufacturing       (c)       (c)       (c)         254       Other chemical product manufacturing       (c)       (c)         2		lextile, clothing, footwear and leather		lextile, leather, clothing and footwear	
231       Log sawmilling and timber dressing       141       Log sawmilling and timber dressing       (b)         232       Other wood product manufacturing       149       Other wood product manufacturing       (b)         233       Paper and paper product manufacturing       151       Pulp, paper and paper product manufacturing       (c)         241       Printing and services to printing       Discontinued, split into 152, 161       (c)         242       Publishing       Discontinued, included in 541       (c)         242       Publishing       (c)       Petroleum refining and petroleum fuel       (c)         251       Petroleum refining       1701       manufacturing       (a)         253       Basic chemical manufacturing       Discontinued, split into 184, 185, 189, 191       (b)         254       Other chemical product manufacturing       Discontinued, split into 184, 185, 189, 191       (c)         254       Other chemical product manufacturing       182       Basic polymer manufacturing       (c)         254       Other chemical product manufacturing       182       Cleaning compound and toiletry preparation manufacturing       (c)         255       Rubber product manufacturing       189       Other basic chemical product manufacturing       (c)         256       Plast	22	manufacturing	13	manufacturing	(a)
232     Other wood product manufacturing     149     Other wood product manufacturing     (b)       233     Paper and paper product manufacturing     151     Pulp, paper and paperboard manufacturing     (b)       241     Printing and services to printing     Discontinued, split into 152, 161     (c)       241     Printing and pervices to printing     Discontinued, split into 152, 161     (c)       242     Publishing     (c)     (c)       242     Publishing     Discontinued, included in 541     (c)       251     Petroleum refining     1701     manufacturing     (a)       253     Basic chemical manufacturing     Discontinued, split into 184, 185, 189, 191     (c)       254     Other chemical product manufacturing     Discontinued, split into 184, 185, 189, 191     (c)       254     Other chemical product manufacturing     Discontinued, split into 184, 185, 189, 191     (c)       254     Other chemical product manufacturing     Discontinued, split into 184, 185, 189, 191     (c)       254     Other chemical product manufacturing     (c)     (c)       255     Rubber product manufacturing     192     Natural rubber product manufacturing     (c)       256     Plastic product manufacturing     Discontinued, included in 191 (part)     (c)       26     Non-metallic mineral product manuf	231	Log sawmilling and timber dressing	141	Log sawmilling and timber dressing	(b)
233       Paper and paper product manufacturing       151       Pulp, paper and paper product manufacturing       (b)         241       Printing and services to printing       Discontinued, split into 152, 161       (c)         241       Printing and services to printing       Discontinued, split into 152, 161       (c)         242       Publishing       Discontinued, included in 541       (c)         242       Publishing       Discontinued, included in 541       (c)         251       Petroleum refining and petroleum fuel       (c)       (c)         253       Basic chemical manufacturing       Discontinued, split into 184, 185, 189, 191       (b)         254       Other chemical product manufacturing       Discontinued, split into 184, 185, 189, 191       (c)         254       Other chemical product manufacturing       Discontinued, split into 184, 185, 189, 191       (c)         254       Other chemical product manufacturing       (c)       (c)       (c)         255       Rubber product manufacturing       191       Polymer product manufacturing       (c)         255       Rubber product manufacturing       Discontinued, included in 191 (part)       (c)         256       Plastic product manufacturing       Discontinued, included in 191 (part)       (c)         26 <td< td=""><td>232</td><td>Other wood product manufacturing</td><td>149</td><td>Other wood product manufacturing</td><td>(b)</td></td<>	232	Other wood product manufacturing	149	Other wood product manufacturing	(b)
241       Printing and services to printing       Discontinued, split into 152, 161       (c)         152       Converted paper product manufacturing       (c)         244       Publishing       Discontinued, included in 541       (c)         242       Publishing       Discontinued, included in 541       (c)         243       Petroleum refining       (c)       Petroleum refining and petroleum fuel       (c)         251       Petroleum refining       1701       manufacturing       (a)         253       Basic chemical manufacturing       182       Basic polymer manufacturing       (b)         254       Other chemical product manufacturing       Discontinued, split into 184, 185, 189, 191       (c)         254       Other chemical product manufacturing       Discontinued, split into 184, 185, 189, 191       (c)         254       Other chemical product manufacturing       Discontinued, split into 184, 185, 189, 191       (c)         254       Other chemical product manufacturing       (c)       (c)       (c)         255       Rubber product manufacturing       185       manufacturing       (c)         255       Rubber product manufacturing       Discontinued, included in 191 (part)       (c)         256       Plastic product manufacturing       Discontinue	233	Paper and paper product manufacturing	151	Pulp, paper and paperboard manufacturing	(b)
152     Converted paper product manufacturing     (c)       242     Publishing     161     Printing and printing support services     (c)       242     Publishing     Discontinued, included in 541        243     Publishing     (c)        244     Publishing     (c)        245     Petroleum refining     1701     manufacturing     (a)       253     Basic chemical manufacturing     Discontinued, split into 184, 185, 189, 191        254     Other chemical product manufacturing     Discontinued, split into 184, 185, 189, 191        254     Other chemical product manufacturing     Discontinued, split into 184, 185, 189, 191        254     Other chemical product manufacturing     Discontinued, split into 184, 185, 189, 191        254     Other chemical product manufacturing     (c)        254     Other chemical product manufacturing     (c)        255     Rubber product manufacturing     185     manufacturing     (c)       255     Rubber product manufacturing     192     Natural rubber product manufacturing     (b)       256     Plastic product manufacturing     191     Polymer product manufacturing     (c)       26     Non-metallic mineral product manufacturing     20     Non-metalli	241	Printing and services to printing	Discontinued, split into 152, 161		
161       Printing and printing support services       (c)         242       Publishing       Discontinued, included in 541			152	Converted paper product manufacturing	(c)
242       Publishing       Discontinued, included in 541         243       Newspaper, periodical, book and directory publishing (c)         254       Petroleum refining and petroleum fuel         251       Petroleum refining       (a)         253       Basic chemical manufacturing       182       Basic polymer manufacturing       (b)         254       Other chemical product manufacturing       Discontinued, split into 184, 185, 189, 191       (c)         254       Other chemical product manufacturing       Is44       manufacturing       (c)         254       Other chemical product manufacturing       Is44       manufacturing       (c)         254       Other chemical product manufacturing       (c)       (c)       (c)         254       Other chemical product manufacturing       (c)       (c)         254       Other chemical product manufacturing       (c)       (c)         26       Rubber product manufacturing       191       Polymer product manufacturing       (c)         256       Non-metallic mineral product manufacturing       20       Non-metallic mineral product manufacturing       (c)         26       Non-metallic mineral product manufacturing       20       Non-metallic mineral product manufacturing       (c)         271			161	Printing and printing support services	(c)
Newspaper, periodical, book and directory       541       publishing       (c)         251       Petroleum refining       1701       manufacturing and petroleum fuel       (a)         253       Basic chemical manufacturing       182       Basic polymer manufacturing       (b)         254       Other chemical product manufacturing       Discontinued, split into 184, 185, 189, 191       (c)         254       Other chemical product manufacturing       Discontinued, split into 184, 185, 189, 191       (c)         254       Other chemical product manufacturing       Discontinued, split into 184, 185, 189, 191       (c)         264       Other chemical product manufacturing       (c)       (c)         255       Rubber product manufacturing       185       manufacturing       (c)         255       Rubber product manufacturing       191       Polymer product manufacturing       (c)         256       Plastic product manufacturing       Discontinued, included in 191 (part)       (c)         26       Non-metallic mineral product manufacturing       20       Non-metallic mineral product manufacturing       (a)         271       Iron and steel manufacturing       Discontinued, included in 212 (part)       (c)         212       Basic ferrous metal product manufacturing       (c) <td>242</td> <td>Publishing</td> <td>Discontinued, i</td> <td>included in 541</td> <td></td>	242	Publishing	Discontinued, i	included in 541	
541publishing(c)251Petroleum refining1701manufacturing(a)253Basic chemical manufacturing182Basic polymer manufacturing(b)254Other chemical product manufacturingDiscontinued, split into 184, 185, 189, 191(c)264Other chemical product manufacturing(c)Pharmaceutical and medicinal product(c)274Image: State				Newspaper, periodical, book and directory	
251Petroleum refining and petroleum fuel253Basic chemical manufacturing1701manufacturing(a)253Basic chemical manufacturing182Basic polymer manufacturing(b)254Other chemical product manufacturingDiscontinued, split into 184, 185, 189, 191(c)264Other chemical product manufacturing184manufacturing(c)274184manufacturing(c)285Rubber product manufacturing185manufacturing(c)255Rubber product manufacturing191Polymer product manufacturing(c)256Plastic product manufacturingDiscontinued, included in 191 (part)(c)26Non-metallic mineral product manufacturing20Non-metallic mineral product manufacturing(a)271Iron and steel manufacturing20Non-metallic mineral product manufacturing(c)212Basic ferrous metal product manufacturing(c)			541	publishing	(c)
251       Petroleum refining       1701       manufacturing       (a)         253       Basic chemical manufacturing       182       Basic polymer manufacturing       (b)         254       Other chemical product manufacturing       Discontinued, split into 184, 185, 189, 191				Petroleum refining and petroleum fuel	
253       Basic chemical manufacturing       182       Basic polymer manufacturing       (b)         254       Other chemical product manufacturing       Discontinued, split into 184, 185, 189, 191          254       Other chemical product manufacturing       Discontinued, split into 184, 185, 189, 191          254       Pharmaceutical and medicinal product       manufacturing       (c)         254       Cleaning compound and toiletry preparation       (c)         255       Rubber product manufacturing       191       Polymer product manufacturing       (c)         255       Rubber product manufacturing       Discontinued, included in 191 (part)       (c)         256       Plastic product manufacturing       Discontinued, included in 191 (part)       (c)         26       Non-metallic mineral product manufacturing       20       Non-metallic mineral product manufacturing       (a)         271       Iron and steel manufacturing       Discontinued, included in 212 (part)       (c)         212       Basic ferrous metal product manufacturing       (c)	251	Petroleum refining	1701	manufacturing	(a)
254       Other chemical product manufacturing       Discontinued, split into 184, 185, 189, 191       Image: Pharmaceutical and medicinal product manufacturing       (c)         184       manufacturing       (c)         Cleaning compound and toiletry preparation       185       manufacturing       (c)         185       manufacturing       (c)       (c)         185       manufacturing       (c)         189       Other basic chemical product manufacturing       (c)         255       Rubber product manufacturing       191       Polymer product manufacturing       (b)         256       Plastic product manufacturing       Discontinued, included in 191 (part)       (c)         26       Non-metallic mineral product manufacturing       20       Non-metallic mineral product manufacturing       (a)         271       Iron and steel manufacturing       Discontinued, included in 212 (part)       (c)         212       Basic ferrous metal product manufacturing       (c)	253	Basic chemical manufacturing	182	Basic polymer manufacturing	(b)
Pharmaceutical and medicinal product       Pharmaceutical and medicinal product         184       manufacturing       (c)         Cleaning compound and toiletry preparation       Cleaning compound and toiletry preparation         185       manufacturing       (c)         189       Other basic chemical product manufacturing       (c)         189       Other basic chemical product manufacturing       (c)         255       Rubber product manufacturing       191       Polymer product manufacturing       (b)         256       Plastic product manufacturing       Discontinued, included in 191 (part)       (c)         26       Non-metallic mineral product manufacturing       20       Non-metallic mineral product manufacturing       (a)         271       Iron and steel manufacturing       Discontinued, included in 212 (part)       (c)	254	Other chemical product manufacturing	Discontinued,	split into 184, 185, 189, 191	
184       manufacturing       (c)         185       Cleaning compound and toiletry preparation manufacturing       (c)         185       manufacturing       (c)         189       Other basic chemical product manufacturing       (c)         189       Other basic chemical product manufacturing       (c)         255       Rubber product manufacturing       192       Natural rubber product manufacturing       (b)         256       Plastic product manufacturing       Discontinued, included in 191 (part)       (c)         26       Non-metallic mineral product manufacturing       20       Non-metallic mineral product manufacturing       (a)         271       Iron and steel manufacturing       Discontinued, included in 212 (part)       (c)         212       Basic ferrous metal product manufacturing       (c)				Pharmaceutical and medicinal product	
Cleaning compound and toiletry preparation         185         185         189         Other basic chemical product manufacturing         191         Polymer product manufacturing         255         Rubber product manufacturing         192         Natural rubber product manufacturing         193         Polymer product manufacturing         194         Polymer product manufacturing         195         Plastic product manufacturing         191         Polymer product manufacturing         191         Polymer product manufacturing         (b)         256         Plastic product manufacturing         191         Polymer product manufacturing         (c)         26         Non-metallic mineral product manufacturing         271         Iron and steel manufacturing         212         Basic ferrous metal product manufacturing         (c)			184	manufacturing	(c)
185       manufacturing       (c)         189       Other basic chemical product manufacturing       (c)         191       Polymer product manufacturing       (c)         255       Rubber product manufacturing       192       Natural rubber product manufacturing       (b)         256       Plastic product manufacturing       Discontinued, included in 191 (part)       (c)         26       Non-metallic mineral product manufacturing       20       Non-metallic mineral product manufacturing       (a)         271       Iron and steel manufacturing       Discontinued, included in 212 (part)       (c)				Cleaning compound and toiletry preparation	
189       Other basic chemical product manufacturing       (c)         191       Polymer product manufacturing       (c)         255       Rubber product manufacturing       192       Natural rubber product manufacturing       (b)         256       Plastic product manufacturing       Discontinued, included in 191 (part)       (c)         26       Non-metallic mineral product manufacturing       20       Non-metallic mineral product manufacturing       (a)         271       Iron and steel manufacturing       Discontinued, included in 212 (part)       (c)         212       Basic ferrous metal product manufacturing       (c)			185	manufacturing	(c)
189     Other basic chemical product manufacturing     (c)       191     Polymer product manufacturing     (c)       255     Rubber product manufacturing     192     Natural rubber product manufacturing     (b)       256     Plastic product manufacturing     Discontinued, included in 191 (part)     (c)       26     Non-metallic mineral product manufacturing     20     Non-metallic mineral product manufacturing     (a)       271     Iron and steel manufacturing     Discontinued, included in 212 (part)     (c)					. /
191       Polymer product manufacturing       (c)         255       Rubber product manufacturing       192       Natural rubber product manufacturing       (b)         256       Plastic product manufacturing       Discontinued, included in 191 (part)       (c)         26       Non-metallic mineral product manufacturing       (c)         26       Non-metallic mineral product manufacturing       20       Non-metallic mineral product manufacturing       (a)         271       Iron and steel manufacturing       Discontinued, included in 212 (part)       (c)			189	Other basic chemical product manufacturing	(c)
255       Rubber product manufacturing       192       Natural rubber product manufacturing       (b)         256       Plastic product manufacturing       Discontinued, included in 191 (part)       (c)         26       Non-metallic mineral product manufacturing       20       Non-metallic mineral product manufacturing       (a)         271       Iron and steel manufacturing       Discontinued, included in 212 (part)       (c)         212       Basic ferrous metal product manufacturing       (c)			191	Polymer product manufacturing	(c)
256       Plastic product manufacturing       Discontinued, included in 191 (part)       (a)         26       Non-metallic mineral product manufacturing       20       Non-metallic mineral product manufacturing       (a)         271       Iron and steel manufacturing       Discontinued, included in 212 (part)       (b)         212       Basic ferrous metal product manufacturing       (c)	255	Rubber product manufacturing	192	Natural rubber product manufacturing	(b)
26     Non-metallic mineral product manufacturing     20     Non-metallic mineral product manufacturing     (c)       271     Iron and steel manufacturing     Discontinued, included in 212 (part)     (a)	256	Plastic product manufacturing	Discontinued.	included in 191 (part)	A - 7
26       Non-metallic mineral product manufacturing       20       Non-metallic mineral product manufacturing       (a)         271       Iron and steel manufacturing       Discontinued, included in 212 (part)       (b)         212       Basic ferrous metal product manufacturing       (c)	-		191	Polymer product manufacturing	(c)
26       Non-metallic mineral product manufacturing       20       Non-metallic mineral product manufacturing       (a)         271       Iron and steel manufacturing       Discontinued, included in 212 (part)       (b)         212       Basic ferrous metal product manufacturing       (c)			1	.,	,
271 Iron and steel manufacturing Discontinued, included in 212 (part) 212 Basic ferrous metal product manufacturing (c)	26	Non-metallic mineral product manufacturing	20	Non-metallic mineral product manufacturing	(a)
212 Basic ferrous metal product manufacturing (c)	271	Iron and steel manufacturing	Discontinued i	included in 212 (part)	(4)
212 Basic ferrous metal product manufacturing (c)				(porc)	
			212	Basic ferrous metal product manufacturing	(c)

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272	Basic non–ferrous metal manufacturing	213	Basic non-ferrous metal manufacturing	(a)
	Non–ferrous basic metal product		Basic non–ferrous metal product	
273	manufacturing	214 manufacturing		(a)
274	Structural metal product manufacturing	Discontinue	ed, included in 222 (part)	
		222	Structural metal product manufacturing	(c)
275	Sheet metal product manufacturing	Discontinue	ed, included in 223 (part)	
		223	Metal container manufacturing	(c)
276	Fabricated metal product manufacturing	229	Other fabricated metal product manufacturing	(b)
			Notor vehicle and motor vehicle part	<i>.</i>
281	Motor vehicle and part manufacturing	231	manufacturing	(D)
282	Other transport equipment manufacturing	239	Other transport equipment manufacturing Professional and scientific equipment	(d)
101	manufacturing	241	manufacturing	(h)
205		241	Computer and electronic equipment	(U)
28/	Electronic equipment manufacturing	242	manufacturing	(b)
204	Electrical equipment and appliance	272	manalactaring	(5)
285	manufacturing	Discontinue	ed. split into 243. 244	
		243	Electrical equipment manufacturing	(c)
		244	Domestic appliance manufacturing	(c)
	Industrial machinery and equipment			
286	manufacturing	Discontinue	ed, split into 245, 246, 249	
			Pump, compressor, heating and ventilation	
		245	equipment manufacturing	(c)
			Specialised machinery and equipment	
		246	manufacturing	(c)
			Other machinery and equipment	
		249	manufacturing	(c)
29	Other manufacturing	25	Furniture and other manufacturing	(b)
			Electricity supply; gas supply; and water	<i>.</i>
36-37	Electricity, gas and water supply	26-28	supply, sewerage and drainage services	(b)
571	Accommodation	440	Accommodation	(a)
		451	Cafes, restaurants and takeaway food services	(c)
611	Road freight transport	451	Road freight transport	(C) (b)
620	Rail transport	401	Rail freight transport	(b) (b)
630	Water transport	481	Water freight transport	(b)
640	Air and space transport	Discontinue	ed	()
650	Other transport	Discontinue	ed	
66	Services to transport	Discontinue	ed	
670	Storage	530	Warehousing and storage services	(a)
771	Property operators and developers	Discontinue	ed	
772	Real estate agents	672	Real estate services	(b)
774	Machinery and equipment hiring and leasing	66	Rental and hiring services (except real estate)	(b)
782	Technical services	Discontinue	ed, included in 692 (part)	
			Architectural, engineering and technical	
700		692	services	(c)
/83	Computer services	Discontinue	ed, split into 592, 700	
		502	bata processing, web nosting and electronic	(-)
		592	information storage services	(C)
		700	Computer system design and related services	(c)
78/	Legal and accounting services	693	Legal and accounting services	(c) (b)
7.04		000	Legal and accounting SCIVICES	(5)
785	Marketing and business management services	Discontinue	ed, split into 692 (part), 695 (part), 696 (part)	
			Architectural, engineering and technical	1
		692	services	(c)
		695	Market research and statistical services	(c)
786	Other business services	Discounted	· · · · · · · · · · · · · · · · · · ·	1
		721	Employment services	(c)
		729	Other administrative services	(c)
		697	Veterinary services	(c)
Footnotes:	(a) Series continuing. (b) Series continuing with cor	npositional cl	nange. (c) New series.	

## TABLE 3 STAGE OF PRODUCTION, PRELIMINARY DEMAND, Australian and New Zealand Standard Industrial Classification (ANZSIC) 1993 to 2006 Correspondence Table

Table 9 of Prod	ucer Price Indexes, Australia (cat. no. 6427.0)			
				_
ANZSIC 1993		ANZSIC 2006	Becomes	Status
			Sheep, beef cattle and grain farming; and dairy	
012–013	Grain, sheep, beet and dairy cattle farming	014,016	cattle farming	(a)
		011-013, 015,		<i>.</i>
011, 014–016	Other agriculture	017-019	Other agriculture	(b)
02	Convisor to agriculture, bunting and transing	Discontinued		
02	Services to agriculture, nunting and trapping	Discontinueu	Forestry and logging	(2)
110		050		(a)
110		060	Coal mining Oil and an extra stick	(a) (-)
120	Oil and gas extraction	070	Oil and gas extraction	(a)
131	Metal ore mining	080	Metal ore mining	(a)
			Other non–metanic mineral mining and	
14	Other mining	099	quarrying	(a)
211	Meat and meat product manufacturing	111	Meat and meat product manufacturing	(a)
212	Dairy product manufacturing	113	Dairy product manufacturing	(a)
	Fruit and vegetable processing; oil and fat		Fruit and vegetable processing; oil and fat	
213–214	manufacturing	114–115	manufacturing	(a)
215	Flour mill and cereal food manufacturing	116	Grain mill and cereal product manufacturing	(a)
216	Bakery product manufacturing	117	Bakery product manufacturing	(a)
217	Other food manufacturing	Discontinued,	split into 112, 118, 119, 121 (part)	
		112	Seafood processing	(c)
		118	Sugar and confectionery manufacturing	(c)
		119	Other food product manufacturing	(c)
218	Beverage and malt manufacturing	121	Beverage manufacturing	(b)
	Textile, clothing, footwear and leather		Textile, leather, clothing and footwear	
22	manufacturing	13	manufacturing	(a)
231	log sawmilling and timber dressing	141	Log sawmilling and timber dressing	(u) (h)
232	Other wood product manufacturing	149	Other wood product manufacturing	(~) (h)
232	Paper and paper product manufacturing	151	Pulp, paper and paperboard manufacturing	(b)
241	Printing and services to printing	Discontinued, split into 152, 161		(~)
271		152	Converted paper product manufacturing	(c)
		161	Drinting and printing support services	(c)
242	Publishing	Discontinued	included in E41	(C)
242	Publishing	Discontinueu,	Newspaper, periodical, book and directory	
		E 44	newspaper, periodical, book and unectory	(-)
254	Detectory of the inter	541	publishing	(C)
251	Petroleum refining	1701	Detrolours refining and netrolours fuel	
			Petroleum reinning and petroleum luei	
			manufacturing	(a)
				<i></i> .
253	Basic chemical manufacturing	182	Basic polymer manufacturing	(b)
254	Other chemical product manufacturing	Discontinued,	split into 184, 185, 189, 191	
			Pharmaceutical and medicinal product	
		184	manufacturing	(c)
			Cleaning compound and toiletry preparation	
		185	manufacturing	(c)
		189	Other basic chemical product manufacturing	(c)
		191	Polymer product manufacturing	(c)
255	Rubber product manufacturing	192	Natural rubber product manufacturing	(b)
256	Plastic product manufacturing	Discontinued, i	included in 191 (part)	
		191	Polymer product manufacturing	(c)
26	Non-metallic mineral product manufacturing	20	Non-metallic mineral product manufacturing	(a)
271	Iron and steel manufacturing	Discontinued, included in 212 (part)		

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		212	Basic ferrous metal product manufacturing	(c)
272	Basic non-ferrous metal manufacturing	212	Basic non-ferrous metal manufacturing	(c)
272	Non-ferrous basic metal product	215	Basic non-ferrous metal product	(¤)
273	manufacturing	214	manufacturing	(a)
274	Structural metal product manufacturing	Discontinued, i	ncluded in 222 (part)	(¤)
271		272	Structural metal product manufacturing	(c)
275	Sheet metal product manufacturing	Discontinued, i	ncluded in 223 (part)	(0)
275		223	Metal container manufacturing	(c)
		225		(0)
276	Fabricated metal product manufacturing	229	Other fabricated metal product manufacturing	(b)
			Motor vehicle and motor vehicle part	
281	Motor vehicle and part manufacturing	231	manufacturing	(b)
282	Other transport equipment manufacturing	239	Other transport equipment manufacturing	(b)
	Photographic and scientific equipment		Professional and scientific equipment	
283	manufacturing	241	manufacturing	(b)
			Computer and electronic equipment	
284	Electronic equipment manufacturing	242	manufacturing	(b)
	Electrical equipment and appliance			
285	manufacturing	Discontinued, s	plit into 243, 244	
		243	Electrical equipment manufacturing	(c)
		244	Domestic appliance manufacturing	(c)
	Industrial machinery and equipment			
286	manufacturing	Discontinued, s	plit into 245, 246, 249	
			Pump, compressor, heating and ventilation	
		245	equipment manufacturing	(c)
			Specialised machinery and equipment	. /
		246	manufacturing	(c)
			Other machinery and equipment	(-)
		249	manufacturing	(c)
		245	Electricity supply: gas supply: and water	(0)
26_27	Electricity, gas and water supply	26-20	supply, sowerage and drainage services	(h)
50-57	Accommodation	20-20	Accommodation	(D) (D)
571	Accommodation	440	Accommodation	(a)
		451	Cafes, restaurants and takeaway food services	(c)
C11	Dood freight trongport	451	Cales, residurants and takeaway lood services	(C) (b)
611		461	Road freight transport	(a)
620	Rail transport	4/1	Rail freight transport	(D)
630	Water transport	481 Discontinued	water freight transport	(a)
640	Air and space transport	Discontinued		
650	Other transport	Discontinued		
66	Services to transport	Discontinued		
670	Storage	530	Warehousing and storage services	(a)
771	Property operators and developers	Discontinued		
772	Real estate agents	672	Real estate services	(b)
774	Machinery and equipment hiring and leasing	66	Rental and hiring services (except real estate)	(b)
782	Technical services	Discontinued, in	ncluded in 692 (part)	
			Architectural, engineering and technical	
		692	services	(c)
783	Computer services	Discontinued, s	plit into 592, 700	
			Data processing, web hosting and electronic	
		592	information storage services	(c)
		I		
		700	Computer system design and related services	(c)
784	Legal and accounting services	693	Legal and accounting services	(b)
		1		
785	Marketing and business management services	es Discontinued, split into 692 (part), 695 (part), 696 (part)		
			Architectural, engineering and technical	
		692	services	(c)
		695	Market research and statistical services	(c)
786		000	Internet research and statistical services	(5)
100	Other husiness services	Discontinued		
	Other business services	Discontinued	Employment services	(c)
	Other business services	Discontinued 721	Employment services	(c)
	Other business services	Discontinued 721 729 697	Employment services Other administrative services	(c) (c)

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#### APPENDIX 2

### METHODOLOGY USED FOR DERIVING STAGE OF PRODUCTION WEIGHTS

INTRODUCTION	<b>1</b> This appendix sets out the current Product by Product (PxP) approach used for deriving the weights for the Stage of Production (SOP) indexes.
BACKGROUND	<b>2</b> The last re–weighting of the SOP indexes was undertaken in 2002. At the time, the collection of price indexes was concentrated in the agricultural and manufacturing industries, with only a small representation of services industries. Since 2002, there has been a greater emphasis placed on the need to capture services industries. The 2012 Producer Price Indexes (PPIs) and International Trade Price Indexes (ITPIs) acknowledged this need, and recommended an economy wide construction of the SOP indexes to reflect all industries of the economy. To achieve this, an efficient means of producing weights for all Input Output Product Codes (IOPC) is required.
	<b>3</b> In 2002, the weights were based on an Industry–by–Industry (IxI) approach. The IxI approach bases the initial calculation of weights on an industry by industry formatted Input–Output (I–O) table. In 2012, this would use a 112 x 112 industry Use matrix from the IxI I–O table (in 2002 there was a 107 x 107 industry matrix). The industry weights, once obtained, are then converted to product weights. In contrast, the PxP approach directly calculates all product weights from a product by product I–O table, and uses a 1284 x 1284 product matrix from the PxP I–O table.
	<b>4</b> The PxP is seen as the most efficient method for producing SOP weights.
ASSESSMENT OF INDUSTRY-BY-INDUSTRY VERSUS PRODUCT-BY-PRODUCT	<b>5</b> The 2002 weighting methodology employed an IxI approach to formulating weights at the IOPC level. This method used the four digit industry level industry I–O tables. The weights were then disaggregated using the eight digit IOPC relative weights within each four digit level industry weight, to generate individual weights for each eight digit IOPC.
APPROACH	<b>6</b> The current PxP approach directly creates weights for each IOPC without the need for the product disaggregation stage used in the IxI approach. This allows a faster weights compilation method.
	<b>7</b> Mathematically, the IxI and PxP approaches for creating I–O tables are nearly identical. The only difference is the order of matrix multiplication of the Use and Supply matrices to create the technology coefficients. For the ABS, the difference results in a 112 x 112 IxI matrix within the I–O table versus a 1284 x 1284 PxP matrix within the I–O table. Apart from this one calculation, all steps in computing the IxI I–O table and the PxP I–O table are the same.
THE PRODUCT-BY-PRODUCT METHODOLOGY	<b>8</b> The principles underlying the compilation of the weights for the SOP indexes are provided in the Appendix of <b>Chapter 13</b> : <i>Producer and International Trade Price Indexes: Concepts, Sources and Methods, 2006</i> (cat. no. 6429.0).
	<b>9</b> The SOP weighting methodology is based on the construction of PxP I–O tables. The procedure for creating the PxP symmetric I–O table is detailed in the United Nations Input Output Handbook (see pp 86–90).



DIAGRAM 4.1 - SIMPLE INPUT-OUTPUT FRAMEWORK

THE PRODUCT-BY-PRODUCT METHODOLOGY continued **10** The weights for the intermediate and preliminary components of the SOP indexes are derived from the following relationships:

Stage	Description	Value used for weighting
Final demand	Final demand, products with no further processing	Y
Intermediate demand	Products consumed as inputs into the production of Final demand	A <u>v</u>
Preliminary demand	Products consumed as inputs into the production of intermediate demand	Α <sup>2</sup> Υ

where (refer to Diagram 1 for locations of these variables in the I–O table):

 $\underline{v}$  = the vector of final demand quantities (i.e. list of Final demand output quantities by industry)

A = the matrix of technology coefficients  $a_{ij}$  produced from the Input–Output tables and

i = 1,...,1284 subscript referring to input products (rows in the I–O table)

i = 1,...,1284 subscript referring to output products (columns in the I–O table)

 $Y_i$  = final demand for product *i* 

 $X_j = \text{total production of product} j$ 

 $F_{ij}$  = the flow of product *i* into product *j* as part of intermediate input into product *j* 

 $a_{ij} = \frac{F_{ij}}{X_j}$  the amount of product *i* directly required to produce one unit of output of product *j*. Known as the industry technology coefficient or the direct requirements coefficient.

 $U_i = \text{total use of product } i$ 

 $Y_i$  = "adjusted" final demand for product *i*, that is final demand less change in inventories

 $\stackrel{1234}{Z}_i = \Sigma$  intermediate consumption of product i across all products

THE PRODUCT-BY-PRODUCT METHODOLOGY continued	<b>11</b> To derive the SOP weights, three tables are required from the Supply–Use Section: IOPC level Use table (at basic prices –BP) with indirect allocation of imports, IOPC level Supply table (at BP), and IOPC Import table (at BP). The respective tables provide details in a 1284 products by 112 industry array.
	<b>12</b> The weighting process requires a number of phases and steps which are described below.
	Phase 1 – Creation of weights for total output including imports
	Step 1. Using the Use table with indirect allocation of imports ('U matrix'), create the technology coefficients matrix ('B matrix'). This is achieved by dividing the product elements in each industry in U by the total industry outputs for each industry (detailed a vector g).
	Step 2. Using the Supply table ('S matrix'), create the technology coefficients matrix ('D matrix'). This requires a sub–step that transposes the S matrix. Create the industry coefficients for the Supply table ('D matrix') by dividing the product elements in each industry in S by the total product outputs (vector q). Note, vector q is obtained by transposing vector q.
	Step 3. Using matrix multiplication, create a technology coefficient 'A matrix' by multiplying 'B matrix' by the 'D matrix' (A=BD). While not required for weighting purposes, the 'A matrix' can be used to create a PxP I–O table.
	Step 4. Calculate an adjusted final demand ' <u>y</u> vector'. This requires adjusting final demand for inventories, and in the case of weights for domestic demand, removing exports.
	Step 5. Using matrix multiplication, multiply the 'A matrix' by ' $y$ vector' to generate Intermediate demand (i.e. Intermediate demand = Ay).
	Step 6. Using matrix multiplication, multiply A by Ay (i.e. multiply the 'A matrix' by the Intermediate demand vector derived in step 5) to get Preliminary demand (Preliminary demand = $A^2y$ ).
	Step 7. Using the final demand classifications from the Use table and the results of steps 5 and 6, calculate the required SOP weights.
	Matrix calculations summary:
	U = Use matrix
	S = Supply matrix
	$B_{ij} = U_{ij}/g_j$
	$D_{ij} = S_{ij}/q_i$
	A = BD
	Final demand = $\underline{y}$
	Intermediate demand = $Ay$
	Preliminary demand = $A^2 y$
	Phase 2 – Creation of weights for domestic demand excluding imports
	Step 1. Create the Use table for domestic demand by subtracting the Import table from the Use table based on the indirect allocation of imports. The resulting table is a Domestic Use table with direct allocation of imports.
	Step 2. Follow the steps in Phase 1 using the newly created Domestic Use table instead

of the original total Use table used in Phase 1. However, instead of using the total industry outputs from the Direct Use table as the denominator for the coefficients, the total industry outputs from the original total Use table in Phase 1 are to be used as the

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THE PRODUCT-BY-PRODUCT METHODOLOGY continued

denominator in the creation of the technology coefficients for Phase 2. By doing this, the production of Domestic output as a proportion of total output including imports is obtained. Ensure that the newly created Domestic A matrix is multiplied by the Final demand y vector from Phase 1 to obtain the Intermediate demand and Preliminary demand for Domestic Use.

Phase 3 – Creation of weights for imports

Step 1 Subtract the Domestic A matrix from the A matrix from Phase 1 to create the Imports A matrix.

Step 2 Use the Imports A matrix and vector y to create the vector A $\underline{y}$  and A<sup>2</sup> $\underline{y}$  for imports, and the subsequent weights as per steps 5 to 7 in Phase 1. Ensure that the Imports A matrix is multiplied by the Final demand  $\underline{y}$  vector from Phase 1 to obtain the Intermediate demand and Preliminary demand for Imports.

Step 1. Using the Use table with direct allocation of imports from Phase 2, create a new technology B matrix. However, instead of using the total industry outputs from the Direct Use table as the denominator for the coefficients, the total industry outputs from the Indirect Use table are to be used as the denominator in the creation of the technology coefficients for Phase 3. By doing this, the production of Domestic output as a proportion of total output including imports is obtained. This will allow the coefficients for the proportion of domestic production excluding imports to be subtracted from the coefficients of domestic output including imports to provide the coefficients of technology for the import component of outputs.

Step 2. Subtract the resulting modified Direct A matrix from the Indirect A matrix from Phase 1 to create the Imports A matrix.

Step 3. Use the Imports A matrix and Indirect vector y to create the vector Ay and  $A^2y$  for imports, and the subsequent weights as per steps 5 to 7 in Phase 1.

**13** An example of how to derive SOP weights is available on request.

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#### APPENDIX 3

#### REVISED FORMAT FOR THE QUARTERLY PRODUCER PRICE INDEXES, AUSTRALIA (CAT. NO. 6427.0)

A mock–up of the September quarter 2012 PPI publication is available in the "Downloads" tab above as "*Appendix 3: Revised format for the Quarterly Producer Price Indexes, Australia*"

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GLOSSARY	 	
GLUSSARY	 	

This glossary provides links to ABS publications which provide definitions or explanations of the main technical terms used in this publication.

*Producer and International Trade Price Indexes: Concepts, Sources and Methods, 2006* (cat. no. 6429.0)

Australian National Accounts: Concepts, Sources and Methods, 2000 (cat. no. 5216.0)

*Balance of Payments and International Investment Position, Australia: Concepts, Sources and Methods, 2011* (cat. no. 5331.0)

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