

Embargoed until 10:45am – 08 December 2009

Economic Survey of Manufacturing: September 2009 quarter

Highlights

Sales (seasonally adjusted) for the September 2009 quarter compared with the June 2009 quarter:

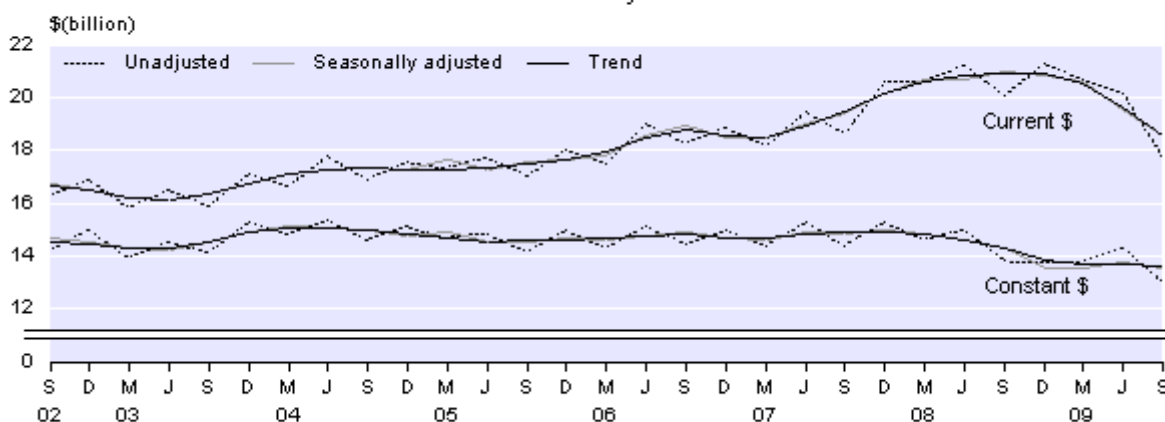
Volumes

- Manufacturing fell 1.4 percent.
- Excluding meat and dairy product manufacturing, sales rose 1.0 percent.
- Meat and dairy manufacturing fell 7.1 percent.

Values

- Manufacturing fell 5.1 percent.
- Excluding meat and dairy product manufacturing, sales fell 0.8 percent.
- Meat and dairy manufacturing fell 15.8 percent.

Total Manufacturing Sales
Current and constant dollars ⁽¹⁾
Quarterly



(1) Constant dollar series (volumes) are at December 1997 quarter prices.

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Commentary

All references to sales movements are seasonally adjusted unless otherwise stated.

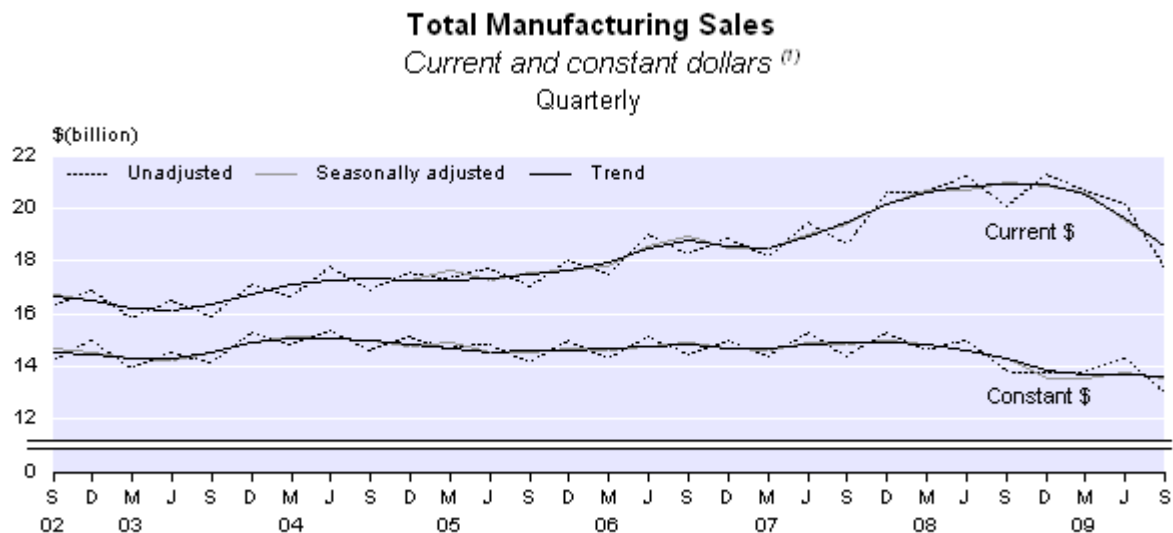
All manufacturing industries

The volume of manufacturing sales fell 1.4 percent in the September 2009 quarter, following a rise of 1.5 percent in the June 2009 quarter. The meat and dairy product manufacturing industry was the key contributor to both these movements. The sales volume for this industry fell 7.1 percent after a rise of 7.5 percent in the June 2009 quarter.

For industries other than meat and dairy, there were mixed results for sales volume movements in the September 2009 quarter. Six industries show increases, six show decreases, and two show little or no movement. The main changes were:

- wood product manufacturing, up 9.1 percent
- basic metal manufacturing, up 21.5 percent
- machinery and equipment manufacturing, down 4.4 percent.

Volumes are calculated by removing the effect of price changes from values.



(1) Constant dollar series (volumes) are at December 1997 quarter prices.

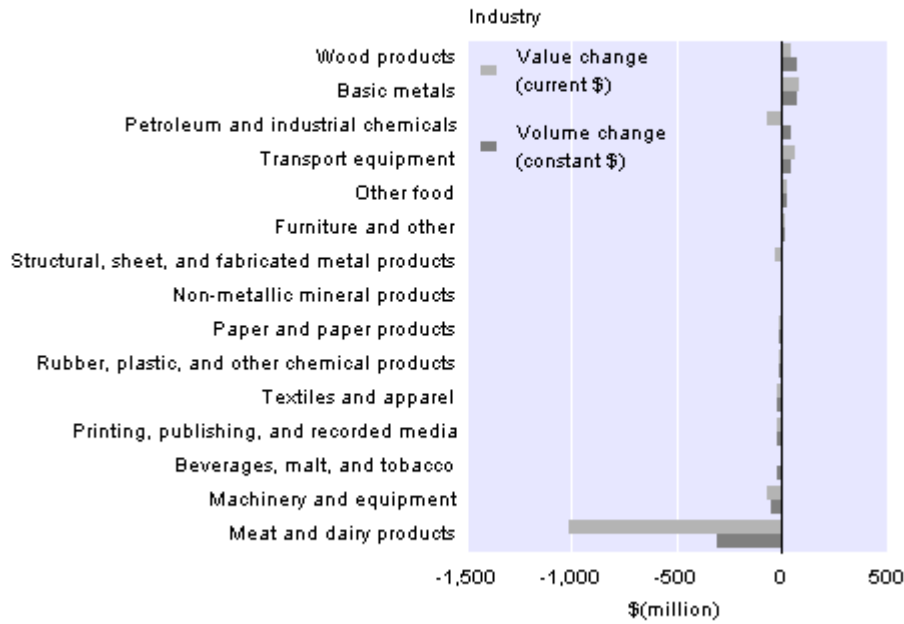
The value of sales fell by 5.1 percent (\$1,004 million) in the September 2009 quarter. This is the fourth consecutive quarterly fall and has lowered sales to the level last seen in early 2007. Driving the latest fall was a drop of 15.8 percent (\$1,011 million) in sales values for the meat and dairy product manufacturing industry, resulting mainly from lower prices for dairy products. The other main changes in the September 2009 quarter were:

- basic metal manufacturing, up 14.6 percent (\$85 million)
- petroleum and industrial chemical manufacturing, down 8.8 percent (\$68 million)
- machinery and equipment manufacturing, down 4.0 percent (\$66 million)
- transport equipment manufacturing, up 11.7 percent (\$65 million).

Changes in Seasonally Adjusted Manufacturing Sales

Current and constant dollars ⁽¹⁾

June 2009 quarter to September 2009 quarter



(1) Constant dollar series (volumes) are at December 1997 quarter prices.

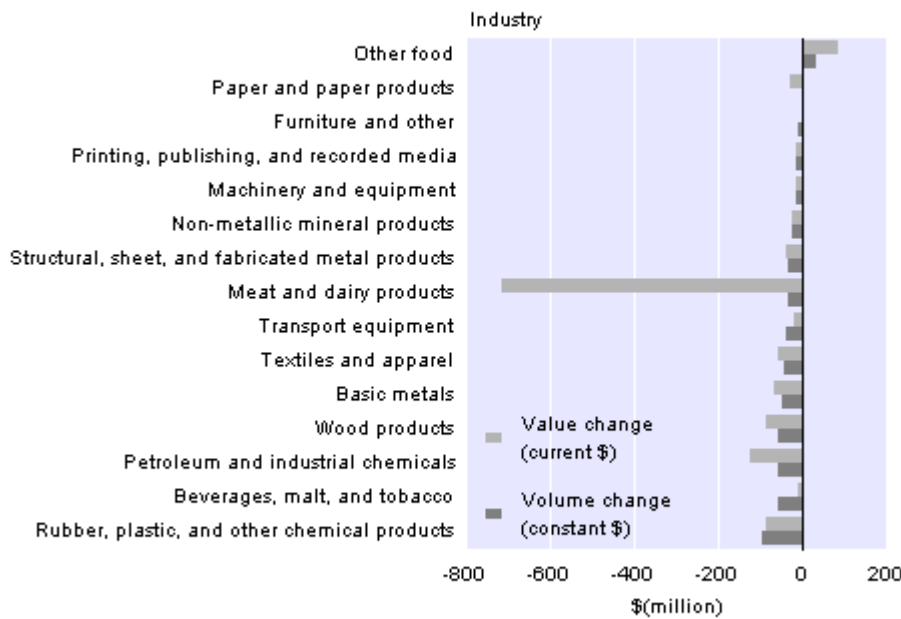
The trend for the sales volume is down for the seventh consecutive quarter, while the trend for the sales value is down for the latest three quarters.

Stocks of finished goods, which are not seasonally adjusted, are down 8.7 percent in volume for the September 2009 quarter compared with the September 2008 quarter. Stock values, at \$6.8 billion, are down 14.9 percent (\$1.2 billion) from the September 2008 quarter, with meat and dairy product manufacturing the main cause of the fall.

Changes in Manufacturing Stocks ⁽¹⁾

In current and constant dollars ⁽²⁾

September 2008 quarter to September 2009 quarter



(1) Closing stocks of finished goods.

(2) Constant dollar series (volumes) are at December 1997 quarter prices.

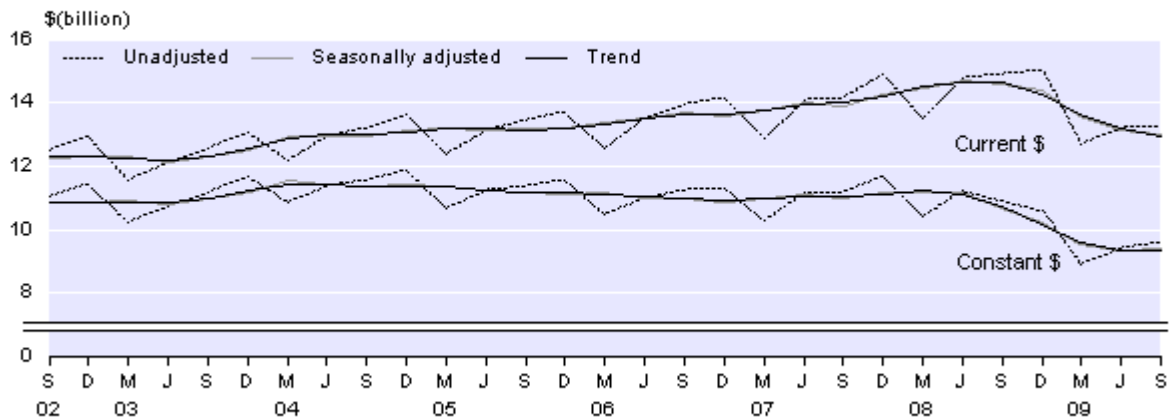
All manufacturing excluding meat and dairy product manufacturing

The volume of sales, excluding meat and dairy product manufacturing, rose 1.0 percent in the September 2009 quarter. This rise follows falls in the previous six quarters that reduced the volume to the lowest level seen in 15 years. As detailed in the previous section, industry activity was mixed, with six industries up, six down, and two showing little or no movement. Wood product and basic metal industries were the main contributors to the latest rise, while the machinery and equipment industry showed the largest fall.

Manufacturing Sales Excluding Meat and Dairy Product Manufacturing

Current and constant dollars ⁽¹⁾

Quarterly



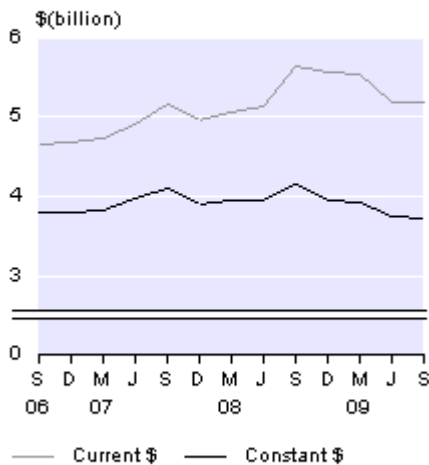
(1) Constant dollar series (volumes) are at December 1997 quarter prices.

The value of sales fell 0.8 percent (\$107 million) in the September 2009 quarter, the fifth consecutive quarterly fall. As detailed in the previous section, the largest falls in sales value were in the petroleum and industrial chemical, and machinery and equipment industries, while the basic metal, and transport equipment industries had the largest rises.

The trend for the sales volume is flat after five quarters of decline, while the trend for the sales value is down for the latest four quarters.

The volume of finished goods stocks, which is not seasonally adjusted, is down 10.5 percent for the September 2009 quarter compared with the September 2008 quarter. The value, at \$5.2 billion, is down 8.3 percent.

Manufacturing Stocks⁽¹⁾
Excluding Meat and Dairy
Current and constant dollars⁽²⁾
 Quarterly



(1) Closing stocks of finished goods.
 (2) Constant dollar series (volumes) are at December 1997 quarter prices.

Meat and dairy product manufacturing

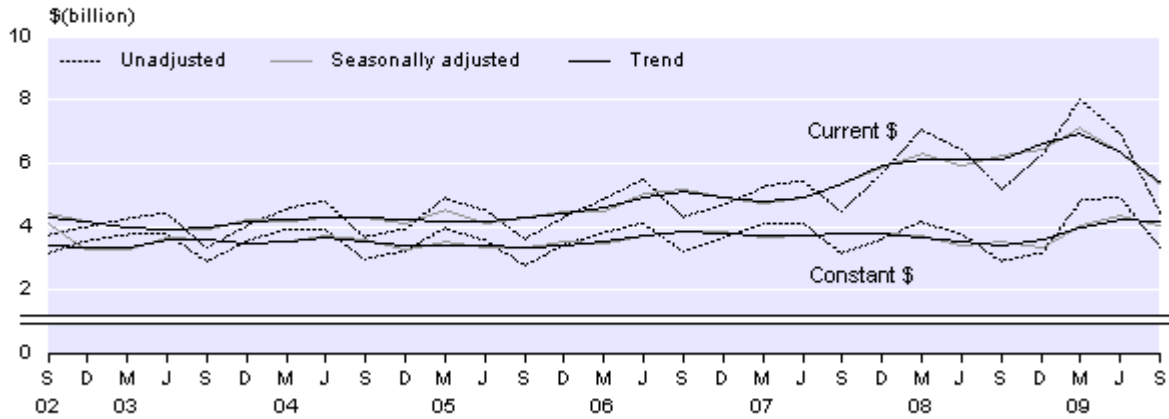
Most dairy industry values in this survey are compiled on a non-standard quarter. The data has a one-month lag which means, for example, that the September quarter includes values for the months of June, July, and August. Monthly data is now available, and when there is a substantial time series and a new seasonal pattern can be established, dairy industry data (combined with the meat industry) will be published based on a standard quarter (such as July–September).

The volume of sales for the meat and dairy product manufacturing industry fell 7.1 percent in the September 2009 quarter, following substantial rises totalling 28.4 percent in the previous two quarters. Milk powder, butter, and cheese export quantities rose 2.0 percent in the September 2009 quarter, while meat and edible offal export quantities fell 16.0 percent, as published in the Overseas Merchandise Trade release.

Meat and Dairy Product Manufacturing Sales

Current and constant dollars ⁽¹⁾

Quarterly



(1) Constant dollar series (volumes) are at December 1997 quarter prices.

The value of sales fell 15.8 percent in the September 2009 quarter, following a fall of 10.5 percent in the June 2009 quarter. Prices for dairy products, as measured by the producers price index, fell 10.9 percent in the September 2009 quarter, while prices for meat and meat products fell 0.3 percent.

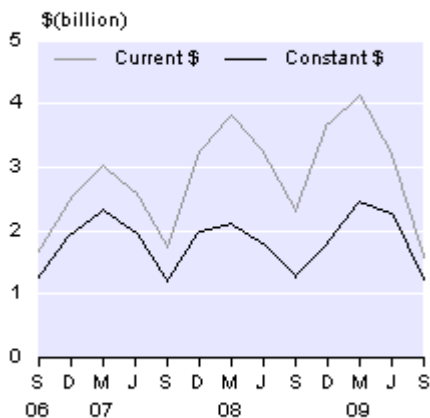
The trend for the sales volume provisionally indicates a decline in the latest quarter, after recent strong growth. The trend for the sales value, which includes the impact of price falls, shows substantial decline in the latest two quarters.

The volume of finished goods stocks, which is not seasonally adjusted, is down 2.6 percent for the September 2009 quarter compared with the September 2008 quarter. The value, at \$1.6 billion, is down 31.1 percent. This large drop is mostly attributable to the dairy industry, which, as mentioned above, is subject to a one-month lag in this survey.

Meat and Dairy Product Manufacturing Stocks ⁽¹⁾

Current and constant dollars ⁽²⁾

Quarterly



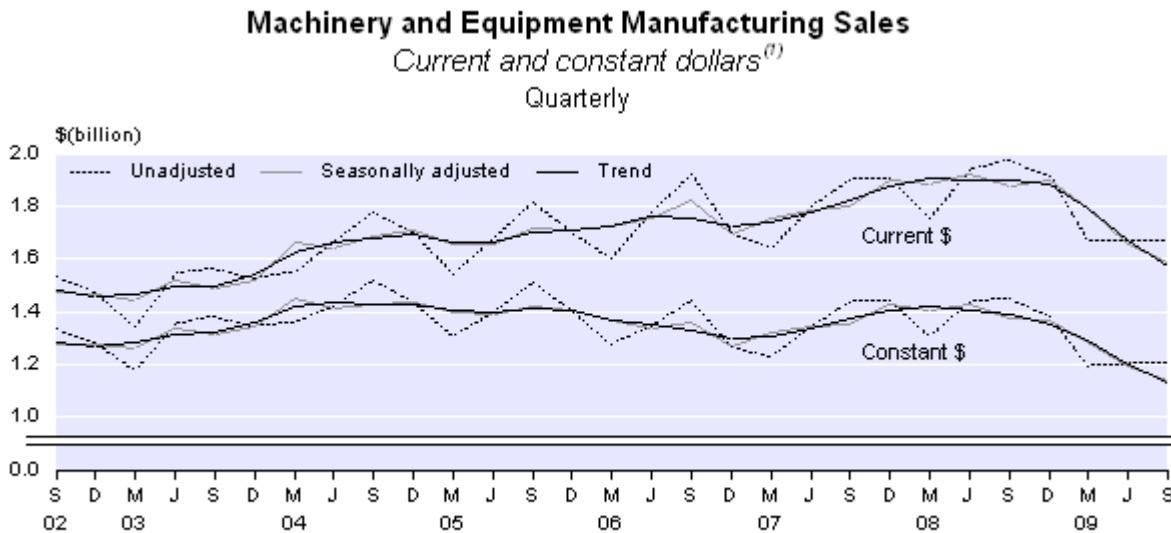
(1) Closing stocks of finished goods.

(2) Constant dollar series (volumes) are at December 1997 quarter prices.

Machinery and equipment manufacturing

This industry includes the manufacture of industrial electronic equipment and appliances, and photographic and scientific equipment.

The volume of sales for this industry fell 4.4 percent in the September 2009 quarter, following a fall of 7.1 percent in the June 2009 quarter. The series is at its lowest level in almost 11 years.



(1) Constant dollar series (volumes) are at December 1997 quarter prices.

The value of sales fell 4.0 percent in the September 2009 quarter, following a fall of 7.8 percent in the June 2009 quarter. Prices for machinery and equipment fell 1.5 percent and 0.4 percent in the June and September 2009 quarters, respectively, as measured by the producers price index.

The trend for the sales volume shows a decline for the latest six quarters, while the trend for the sales value shows a decline for the latest four quarters.

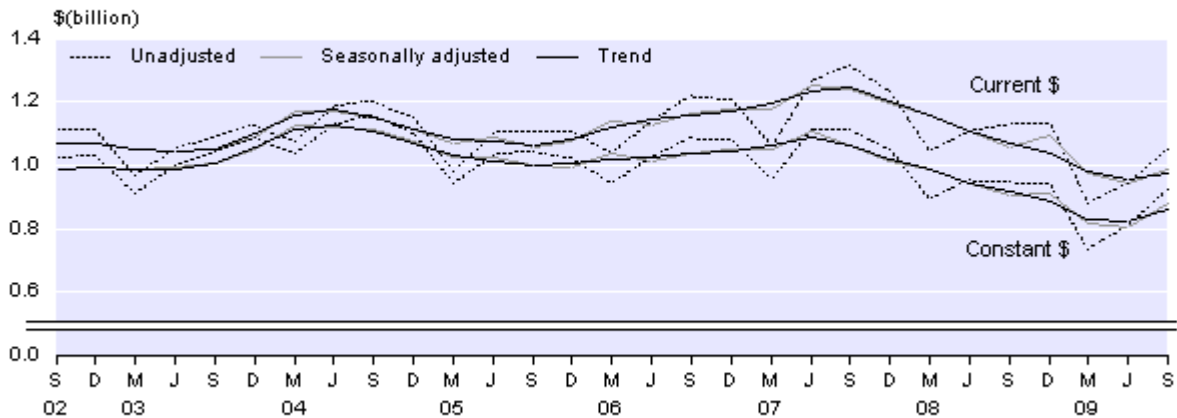
The volume of finished goods stocks, which is not seasonally adjusted, is down 2.9 percent for the September 2009 quarter compared with the September 2008 quarter. The value, at \$615 million, is down 2.1 percent.

Wood product manufacturing

The wood product manufacturing industry consists of log sawmilling, wood chipping, timber re-sawing and dressing, and the manufacture of plywood and veneer, fabricated wood, and wooden structural components.

The volume of sales rose 9.1 percent in the September 2009 quarter, making the wood product manufacturing industry the largest positive contributor to the movement in total manufacturing volumes. In the June 2009 quarter, this industry had a fall of 1.7 percent.

Wood Product Manufacturing Sales
Current and constant dollars⁽¹⁾
 Quarterly



(1) Constant dollar series (volumes) are at December 1997 quarter prices.

The value of sales rose 4.9 percent in the September 2009 quarter, following a fall of 3.7 percent in the June 2009 quarter. Prices for wood products declined 2.3 percent in the June 2009 quarter and 2.6 percent in the September 2009 quarter, as measured by the producers price index.

The trend series for the sales volume and the sales value provisionally indicate growth after about two years of decline.

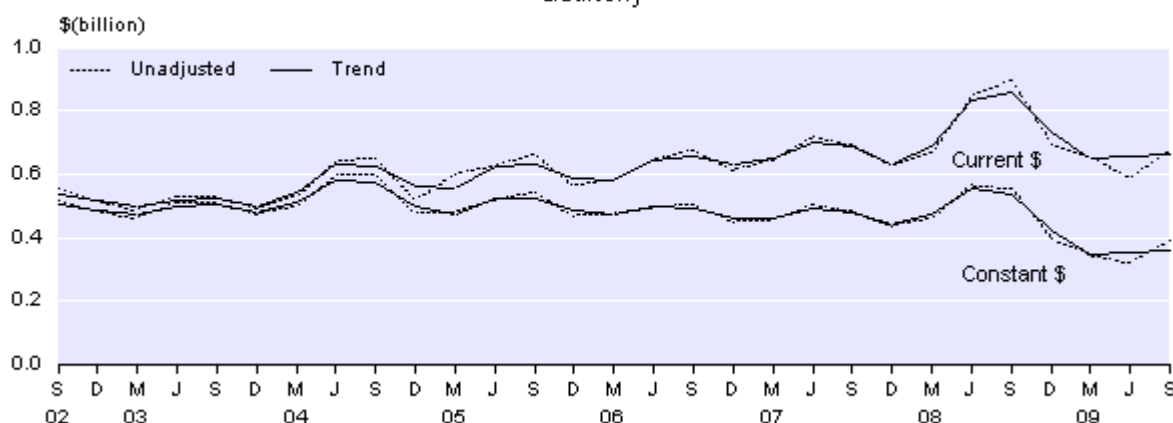
The volume of finished goods stocks, which is not seasonally adjusted, is down 12.4 percent for the September 2009 quarter compared with the September 2008 quarter. The value, at \$444 million, is down 15.9 percent.

Basic metal manufacturing

The basic metal manufacturing industry includes the manufacture of iron and steel, basic non-ferrous metals, and non-ferrous basic metal products. Sales for this industry do not have a stable seasonal pattern, so are not seasonally adjusted.

The (unadjusted) volume of sales rose 21.5 percent in the September 2009 quarter, following a fall of 7.1 percent in the June 2009 quarter. Despite the recent rise, the series remains at a historically low level.

Basic Metal Manufacturing Sales
Current and constant dollars ⁽¹⁾
 Quarterly



(1) Constant dollar series (volumes) are at December 1997 quarter prices.

The (unadjusted) value of sales rose 14.6 percent in the September 2009 quarter, providing the largest positive contribution to the change in total manufacturing sales. In the June 2009 quarter, this industry had a fall of 10.9 percent. Prices for basic metals, as measured by the producers price index, fell 4.0 percent and 5.7 percent in the June and September 2009 quarters, respectively, following six quarters of rises.

The trend series for both the sales volume and sales value show moderate increases in the latest two quarters following large falls in the previous two quarters.

The volume of finished goods stocks, which is not seasonally adjusted, is down 33.3 percent for the September 2009 quarter compared with the September 2008 quarter. The value, at \$166 million, is down 29.1 percent.

Revisions

Amended data received from respondents has resulted in revisions for the following industries:

- meat and dairy product manufacturing (March and June 2009 quarters)
- beverage, malt, and tobacco manufacturing (March and June 2009 quarters)
- petroleum and industrial chemical manufacturing (March 2009 quarter)
- transport equipment manufacturing (June 2009 quarter).

The main changes to sales, purchases, and stocks of finished goods are in the following table.

Industry	Variable	Series MANQ.	Period (quarter)	Published	Published
				15 Sep 2009	8 Dec 2009
				\$(million)	\$(million)
Meat and dairy	Stocks	SNMCZ1E	Jun 2009	3,206	3,190
Beverage, malt	Sales	SNMCZ2A	Mar 2009	927	917
Beverage, malt	Purchases	SNMCZ2B	Mar 2009	562	572
Beverage, malt	Stocks	SNMCZ2E	Jun 2009	948	985
All manufacturing	Sales	SNMCZZA	Mar 2009	20,670	20,660
All manufacturing	Purchases	SNMCZZB	Mar 2009	14,648	14,658
All manufacturing	Stocks	SNMCZZE	Jun 2009	8,363	8,382

Measurement errors

The Economic Survey of Manufacturing applies imputation methods for estimating values for small firms and non-response, and, like all statistical surveys, is subject to measurement errors, including sample errors and non-sample errors. These measurement errors affect the accuracy of the published statistics. For more information on measurement errors, please refer to the technical notes of this release.

Sample errors

The postal survey was designed to give statistics at the following levels of accuracy (at the 95 percent confidence interval limit):

- 5 percent for sales, salaries and wages, and value added at the total manufacturing level
- 10 percent for sales, salaries and wages, and value added at the published industry level, where value added is calculated as follows:

value added = sales – purchases + stock change

This means, for example, that there is a 95 percent chance that the true value of total manufacturing sales lies within 5 percent of the published estimate.

Sample errors are calculated each quarter for absolute values and for changes in value from the previous quarter.

The sample errors for the September 2009 quarter, at the 95 percent confidence interval limit, are:

Industry	Sample error for sales	Sample error for change in sales
	Percent	
Meat and dairy product manufacturing	0.0	0.0
Other food manufacturing	13.5	7.4
Beverage, malt, and tobacco manufacturing	0.0	0.0
Textile and apparel manufacturing	6.1	2.8
Wood product manufacturing	5.4	1.1
Paper and paper product manufacturing	0.0	0.0
Printing, publishing, and recorded media	7.0	7.2
Petroleum and industrial chemical manufacturing	0.0	0.0
Rubber, plastic, and other chemical product manufacturing	10.6	2.0
Non-metallic mineral product manufacturing	3.6	1.9
Basic metal manufacturing	0.0	0.0
Structural, sheet, and fabricated metal product manufacturing	4.6	1.6
Transport equipment manufacturing	4.9	2.4
Machinery and equipment manufacturing	4.0	2.0
Furniture and other manufacturing	8.1	1.1
Total manufacturing	2.0	0.9

Industries with zero sample error are full-coverage industries. In these industries, all large firms

are surveyed and all small- to medium-sized firms are modelled using administrative data from Inland Revenue.

Imputation

Small firms

Small- to medium-sized firms are generally not surveyed. Their variables are instead modelled from administrative data from Inland Revenue. Ratios calculated from the postal sample responses are applied to the administrative data to provide estimated values.

Non-response imputation

Although attempts are made to achieve a 100 percent response rate, in practice this does not occur. Values for non-responding businesses are estimated using a range of methods, including:

- regression imputation
- historic imputation
- mean imputation.

Regression imputation involves estimating the variable of interest from the unit's administrative data (GST sales), based on the relationship shown by similar businesses. Historic imputation involves multiplying their response in the previous period by a non-response factor. The non-response factor is the average movement over the quarter of similar businesses. Mean imputation involves estimating a value for a unit by using the average value for a set of similar businesses.

The table below shows percentages of sales imputed in the September 2009 quarter:

Industry	Non-response	Tax modelled
	Percentage of sales	
Meat and dairy product manufacturing	0.4	3.1
Other food manufacturing	11.2	4.6
Beverage, malt, and tobacco manufacturing	2.2	5.7
Textile and apparel manufacturing	14.9	17.1
Wood product manufacturing	13.2	8.8
Paper and paper product manufacturing	3.7	0.7
Printing, publishing, and recorded media	11.0	11.1
Petroleum and industrial chemical manufacturing	3.8	5.4
Rubber, plastic, and other chemical product manufacturing	10.2	8.5
Non-metallic mineral product manufacturing	6.8	7.4
Basic metal manufacturing	3.7	4.6
Structural, sheet, and fabricated metal product manufacturing	16.2	10.7
Transport equipment manufacturing	16.0	10.0
Machinery and equipment manufacturing	15.1	12.6
Furniture and other manufacturing	14.6	22.4
Total manufacturing	8.1	7.2

Response rate

The response rate applies to the postal sample and gives the proportion of sales obtained from survey responses (compared with being imputed). The Economic Survey of Manufacturing has a target response rate of 85 percent. The response rate achieved for the September 2009 quarter was 91 percent.

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Christchurch 03 964 8700
Email: info@stats.govt.nz

Next release ...

Economic Survey of Manufacturing: December 2009 quarter will be released on 8 March 2010

Technical notes

Background to the survey

The Economic Survey of Manufacturing (QMS) is designed to provide short-term economic indicators for the manufacturing sector. In addition, the data is used to compile the manufacturing sector component of quarterly national accounts. The survey was last redesigned in the June 2001 quarter.

Population

The target population for this survey is all kind-of-activity units (KAUs) operating in New Zealand that are classified as Manufacturing (Australian and New Zealand Standard Industrial Classification Division C) on Statistics New Zealand's Business Frame.

Sample design

The survey population is stratified according to:

- industries defined by the ANZSIC-based ANZIND classification at the working industry level
- size (in terms of rolling mean employment)
- turnover (annualised GST sales).

Each ANZIND working industry division contains between two and four substrata. Because of the contribution large units make to the economic activity within each industry group, they are all included in the sample. A portion of the remaining medium to large units is also included in the sample. In addition, small- to medium-sized businesses have their data modelled from administrative data (GST and Employee Monthly Survey (EMS)) sourced from Inland Revenue. All manufacturing KAUs belonging to a selected 'enterprise' are included.

About 1,600 units have been selected in the postal sample from the entire population, and approximately 17,000 units have their data modelled from tax data.

Sample maintenance

Sample maintenance is the process that maintains the sample over time, to reflect births, deaths, and other structural changes identified on the Business Frame. The information for Business Frame changes comes from a variety of sources, including GST registrations and respondent contact.

New enterprises are identified when they register for GST. Once a quarter, the new enterprises are selected into the sample using the same criteria as for the original sample. These are referred to as births. When an enterprise ceases trading, its manufacturing KAUs are removed from the survey. These are referred to as deaths.

Enterprises can also enter or leave the survey sample if they are reclassified from another industry to manufacturing. Reclassifications occur when an enterprise changes its main form of activity (eg from wholesale trade to manufacturing). These are usually identified in the Annual Frame Update Survey (AFUS) conducted in February each year.

Sample reselection

The sample for the QMS is reselected each quarter to ensure the sample reflects changes occurring in the manufacturing population.

Industry classifications

From the September 2001 quarter, QMS estimates have been published using industries defined by the ANZSIC-based ANZIND classification. The ANZSIC series are the official QMS statistics.

The introduction of ANZSIC ensures the industry classification used by Statistics NZ better reflects contemporary economic activity. It also improves the comparability of statistics produced in New Zealand and Australia.

Measurement errors

Errors in the survey are divided into two classes:

Non-sampling error

Non-sampling error includes errors arising from biases in the patterns of response and non-response, inaccuracies in reporting by respondents, and errors in the recording and coding of data. The size of these errors is difficult to quantify. Data is subject to revision if significant errors are detected in subsequent quarters.

Sampling error

Sampling error is a measure of the variability that occurs by chance because a sample, rather than an entire population, is surveyed.

Definitions

ANZSIC

Australian and New Zealand Standard Industrial Classification system.

ANZIND

An ANZSIC-based classification used to group industries for publication.

Business Frame

A register of all economically significant businesses operating in New Zealand. The population of the QMS is drawn from the Business Frame.

Enterprise

A business entity operating in New Zealand either as a legally constituted body such as a company, partnership, trust, local or central government trading organisation, or as a self-employed individual.

Kind-of-activity unit (KAU)

A subdivision of an enterprise engaged in predominantly one activity and for which a single set of accounting records is available.

Rolling Mean Employment (RME)

RME is a 12-month moving average of the monthly employee count (EC) figure which replaces the numbers of full-time and part-time employees.

Operating income

Income from total sales. This includes:

- sales of processed goods
- sales of goods purchased for resale
- sales of services
- repair services
- manufacturing and processing fees
- management fees
- rental income
- leasing income
- royalties
- patent fees.

Operating income may contain end-of-year payouts that relate to production from earlier quarters. Operating income excludes:

- donations
- insurance claims
- subsidies/government grants
- exchange rate gains
- extraordinary items
- gains on sales of fixed assets
- excise duties
- bad debts.

Purchases and operating expenditure

This includes:

- purchases of goods for resale
- purchases of goods and materials for production
- motor vehicle expenses
- electricity and fuels
- management fees
- telecommunication expenses
- charges and fees paid to other businesses/divisions
- general operating expenditure (eg freight, rent)
- royalties
- patent fees.

Purchases and operating expenditure may incorporate payments for materials or services that may relate to quarters other than those in which they are recorded.

Purchases and operating expenditure excludes:

- interest/dividend payments
- sales tax
- excise duties
- fringe benefit tax
- donations
- bad debts
- extraordinary items
- exchange rate losses
- losses on sales of fixed assets
- depreciation.

Salaries and wages

Gross salaries and wages paid to employees during the quarter, excluding salaries and wages to working proprietors and drawings.

Stocks of raw materials

Closing stocks of raw materials for use in production.

Stocks of finished goods

Closing stocks of finished goods, work in progress and trading stocks.

Additions to fixed assets

This includes purchases of land, and other fixed assets and capital works by own employees. It excludes any revaluation of fixed assets.

Disposals of fixed assets

This includes sales of land or other fixed assets (reported at sale price). It excludes any devaluation of fixed assets.

Use of manufacturing data in quarterly national accounts

A key use of the QMS is in the calculation of manufacturing value added for the compilation of quarterly Gross Domestic Product (GDP).

Base year manufacturing value added is extrapolated using volume indexes. For each ANZSIC division, volume indexes are calculated from deflated sales and the deflated finished goods stock change. Sub-indexes from the Producers Price Index (PPI) are used for deflating QMS sales and finished goods stocks.

QMS data is supplemented with production data for the following industries:

- meat and dairy product

- petroleum and industrial chemical
- basic metal.

Seasonally adjusted series

The X-12-ARIMA package has been used to produce the seasonally adjusted estimates and trend estimates for sales in all subdivisions. Seasonal adjustment aims to eliminate the impact of regular seasonal events (such as annual cycles in agricultural production, winter or annual holidays) on time series. This makes the data for adjacent quarters more comparable.

All seasonally adjusted figures are subject to revision each quarter. This enables the seasonal component to be better estimated and removed from the series.

The X-12-ARIMA seasonal adjustment package is a very robust procedure; however, it has problems when there has been an abrupt change in the seasonal variation, as do other seasonal adjustment packages.

As a result of the restructuring within the dairy industry, there has been a discontinuity in the meat and dairy product and total manufacturing series. The seasonal pattern of the dairy series may have become less closely tied to production cycles due to the removal of the monopsony in the industry. Should this occur, it is likely that the seasonality of the total sales series will also change, as it has been strongly influenced by the seasonality of the meat and dairy series. Therefore, a seasonal movement of a given magnitude in the meat and dairy product and total manufacturing series before June 2002 may not have the same meaning as a seasonal movement of a similar magnitude after June 2002.

Since September 2002, the dairy series have been adjusted to take some account of this expected change in behaviour. There may be further revisions to the meat and dairy, and the total manufacturing series, as further information becomes available which enables Statistics NZ to better quantify the effect of the changes in the dairy industry.

Due to the changes in the meat and dairy series, it has been decided to change the seasonal adjustment method for total sales from direct to indirect. This will allow the series to better respond to changes in the seasonality of the components, and was considered preferable to our usual selection criteria. More information on direct and indirect adjustment is available on our website www.stats.govt.nz in the [seasonal adjustment FAQ pages](#).

For further information contact seasonaladjustment@stats.govt.nz.

The trend series are calculated using the X-12-ARIMA seasonal adjustment package. They are based on a five- or seven-term moving average of the seasonally adjusted series, with an adjustment for outlying values.

Trend estimates towards the end of the series incorporate new data as they become available and can therefore change as more observations are added to the series. Revisions can be particularly large if an observation is treated as an outlier in one quarter, but is found to be part of the underlying trend as further observations are added to the series. Typically, only the estimates for the most recent quarter will be subject to substantial revisions.

Volume series

These are value series that have been adjusted by a price index to remove the effect of price changes. They can then be used for measuring quantity change. The volume series, at present, are expressed in December 1997 quarter dollars.

Values are adjusted using sub-indexes from the PPI. These sub-indexes measure price movements in each of the 15 published manufacturing industries, as well as total manufacturing. When the value series are divided by the respective sub-indexes, price effects are removed and a volume measure remains. The PPI sub-indexes are available on Infoshare.

More information

For more information, follow the [link](#) from the technical notes of this release on the Statistics NZ website.

Estimated trend

For any series, the survey estimates can be broken down into three components: trend, seasonal and irregular. While seasonally adjusted series have had the seasonal component removed, trend series have had both the seasonal and irregular components removed. Trend estimates reveal the underlying direction of movement in a series, and are likely to indicate turning points more accurately than are seasonally adjusted estimates.

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Timing

Timed statistical releases are delivered using postal and electronic services provided by third parties. Delivery of these releases may be delayed by circumstances outside the control of Statistics NZ. Statistics NZ accepts no responsibility for any such delays.

Tables

As previously announced on [Infoshare](#), the tables which accompany this release have been updated. These changes are designed to make the tables both more user-friendly and more closely aligned with the text of the release. Tables also now include trend data for sales volumes. No series identifiers have been altered and all previously available data is still included. If you would like a copy of the tables in the previous format please email info@stats.govt.nz.

The following tables are printed with this Hot Off The Press and can also be downloaded from the Statistics New Zealand website in Excel format. If you do not have access to Excel, you may use the [Excel file viewer](#) to view, print and export the contents of the file.

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Statistics for the Economic Survey of Manufacturing are also available from our online database [Infoshare](#).

Table 1

All Manufacturing
ANZSIC Division C

	Current values					Volumes (values at December 1997 quarter prices) ⁽¹⁾				
	Sales			Closing stocks of		Sales			Closing stocks of finished goods ⁽⁵⁾	
	Unadjusted	Seasonally adjusted ⁽²⁾	Trend ⁽³⁾	Raw materials ⁽⁴⁾	Finished goods ⁽⁵⁾	Unadjusted	Seasonally adjusted ⁽²⁾	Trend ⁽³⁾		
Series ref: MANQ.	SNMCZZA	SNMCZZAS	SNMCZZAT	SNMCZZD	SNMCZZE	SNMRCZZA	SNMRCZZAS	SNMRCZZAT	SNMRCZZE	
\$(million)⁽⁶⁾										
Quarter										
2004	Sep	16,876	17,337	17,306	2,900	5,837	14,583	14,971	14,943	5,068
	Dec	17,598	17,221	17,285	2,896	6,757	15,149	14,787	14,814	5,812
2005	Mar	17,322	17,659	17,274	2,980	7,381	14,640	14,918	14,654	6,237
	Jun	17,696	17,259	17,326	3,123	6,990	14,819	14,515	14,544	5,845
	Sep	17,049	17,534	17,486	2,860	6,426	14,165	14,524	14,579	5,351
	Dec	18,046	17,669	17,644	2,849	7,270	14,999	14,671	14,632	6,008
2006	Mar	17,460	17,773	17,911	2,905	7,906	14,319	14,587	14,639	6,395
	Jun	19,034	18,540	18,485	2,919	7,568	15,097	14,751	14,750	5,966
	Sep	18,245	18,910	18,796	2,932	6,329	14,432	14,889	14,847	5,040
	Dec	18,866	18,470	18,556	2,902	7,190	15,011	14,706	14,714	5,740
2007	Mar	18,174	18,445	18,507	2,872	7,773	14,378	14,607	14,695	6,154
	Jun	19,464	18,987	18,899	2,980	7,547	15,308	14,930	14,811	5,943
	Sep	18,633	19,385	19,459	3,064	6,899	14,335	14,801	14,899	5,314
	Dec	20,616	20,133	20,131	2,914	8,173	15,260	14,962	14,901	5,870
2008	Mar	20,573	20,684	20,602	3,025	8,868	14,625	14,824	14,847	6,069
	Jun	21,210	20,649	20,800	3,153	8,338	15,014	14,628	14,625	5,751
	Sep	20,044	21,002	20,881	3,287	7,933	13,851	14,308	14,280	5,412
	Dec	21,314	20,845	20,911	3,427	9,262	13,778	13,564	13,859	5,738
2009	Mar	20,660 R	20,598	20,520	3,337 R	9,663 R	13,747	13,545	13,682	6,380
	Jun	20,112 R	19,534	19,634	3,232 R	8,382 R	14,310	13,746	13,668	6,019
	Sep	17,680	18,530	18,531	3,091	6,752	12,972	13,557	13,601	4,942
Percentage change from the previous quarter⁽⁷⁾										
Quarter										
2007	Sep	-4.3	2.1	3.0	2.8	-8.6	-6.4	-0.9	0.6	-10.6
	Dec	10.6	3.9	3.5	-4.9	18.5	6.5	1.1	0.0	10.5
2008	Mar	-0.2	2.7	2.3	3.8	8.5	-4.2	-0.9	-0.4	3.4
	Jun	3.1	-0.2	1.0	4.2	-6.0	2.7	-1.3	-1.5	-5.2
	Sep	-5.5	1.7	0.4	4.3	-4.9	-7.7	-2.2	-2.4	-5.9
	Dec	6.3	-0.7	0.1	4.3	16.8	-0.5	-5.2	-2.9	6.0
2009	Mar	-3.1 R	-1.2	-1.9	-2.6 R	4.3 R	-0.2	-0.1	-1.3	11.2
	Jun	-2.7	-5.2	-4.3	-3.2 R	-13.3 R	4.1	1.5	-0.1	-5.7
	Sep	-12.1	-5.1	-5.6	-4.3	-19.4	-9.4	-1.4	-0.5	-17.9
Percentage change from the same quarter of the previous year⁽⁷⁾										
Quarter										
2008	Sep	7.6	8.3	7.3	7.3	15.0	-3.4	-3.3	-4.2	1.9
	Dec	3.4	3.5	3.9	17.6	13.3	-9.7	-9.3	-7.0	-2.2
2009	Mar	0.4 R	-0.4	-0.4	10.3 R	9.0 R	-6.0	-8.6	-7.8	5.1
	Jun	-5.2 R	-5.4	-5.6	2.5 R	0.5 R	-4.7	-6.0	-6.5	4.7
	Sep	-11.8	-11.8	-11.3	-6.0	-14.9	-6.4	-5.2	-4.8	-8.7

(1) Volume series use price indexes to remove the effect of price changes and are recalculated each quarter.

(2) Seasonally adjusted values exclude estimated seasonal fluctuations and are recalculated each quarter.

(3) Trend values exclude estimated seasonal fluctuations and short-term irregular movements and are recalculated each quarter.

(4) Materials for use in production.

(5) Finished goods, trading goods and work in progress.

(6) Values exclude GST.

(7) Percentage changes are calculated on unrounded figures.

Note: ANZSIC Australian and New Zealand Standard Industrial Classification (1996)

Symbol: R revised

Table 2

All Manufacturing Excluding Meat and Dairy Product Manufacturing
ANZSIC Division C (excluding ANZSIC C211–C212)

	Current values					Volumes (values at December 1997 quarter prices) ⁽¹⁾				
	Sales			Closing stocks of		Sales			Closing stocks of finished goods ⁽⁵⁾	
	Unadjusted	Seasonally adjusted ⁽²⁾	Trend ⁽³⁾	Raw materials ⁽⁴⁾	Finished goods ⁽⁵⁾	Unadjusted	Seasonally adjusted ⁽²⁾	Trend ⁽³⁾		
Series ref: MANQ.	SNMCZ3A	SNMCZ3AS	SNMCZ3AT	SNMCZ3D	SNMCZ3E	SNMRCZ3A	SNMRCZ3AS	SNMRCZ3AT	SNMRCZ3E	
\$(million)⁽⁶⁾										
Quarter										
2004	Sep	13,202	12,960	12,990	2,525	4,509	11,576	11,372	11,395	3,965
	Dec	13,663	13,110	13,099	2,551	4,436	11,903	11,427	11,399	3,895
2005	Mar	12,404	13,195	13,169	2,555	4,450	10,680	11,339	11,339	3,869
	Jun	13,134	13,134	13,168	2,692	4,512	11,220	11,223	11,242	3,899
	Sep	13,434	13,194	13,158	2,629	4,796	11,391	11,194	11,171	..
	Dec	13,732	13,180	13,224	2,598	4,521	11,569	11,118	11,159	3,864
2006	Mar	12,562	13,382	13,345	2,665	4,497	10,506	11,174	11,111	3,805
	Jun	13,508	13,486	13,528	2,685	4,655	11,008	10,981	11,046	3,842
	Sep	13,928	13,682	13,613	2,674	4,642	11,217	11,022	10,964	3,787
	Dec	14,172	13,591	13,650	2,644	4,690	11,330	10,892	10,932	3,788
2007	Mar	12,902	13,781	13,790	2,622	4,737	10,293	10,981	10,996	3,816
	Jun	14,055	14,012	13,926	2,748	4,914	11,188	11,131	11,054	3,963
	Sep	14,170	13,917	14,027	2,828	5,153	11,178	10,976	11,075	4,103
	Dec	14,924	14,297	14,223	2,696	4,948	11,654	11,205	11,135	3,893
2008	Mar	13,499	14,456	14,511	2,776	5,045	10,433	11,164	11,221	3,938
	Jun	14,765	14,706	14,658	2,932	5,131	11,236	11,156	11,092	3,950
	Sep	14,886	14,614	14,665	3,024	5,639	10,911	10,707	10,744	4,155
	Dec	15,036	14,400	14,295	3,132	5,562	10,613	10,209	10,158	3,938
2009	Mar	12,670 R	13,586	13,655	3,053 R	5,537 R	8,916	9,555	9,606	3,916
	Jun	13,184 R	13,121	13,187	2,932 R	5,192 R	9,412	9,332	9,385	3,750
	Sep	13,252	13,014	12,948	2,786	5,171	9,602	9,424	9,367	3,718
Percentage change from the previous quarter⁽⁷⁾										
Quarter										
2007	Sep	0.8	-0.7	0.7	2.9	4.9	-0.1	-1.4	0.2	3.5
	Dec	5.3	2.7	1.4	-4.7	-4.0	4.3	2.1	0.5	-5.1
2008	Mar	-9.5	1.1	2.0	3.0	2.0	-10.5	-0.4	0.8	1.2
	Jun	9.4	1.7	1.0	5.6	1.7	7.7	-0.1	-1.1	0.3
	Sep	0.8	-0.6	0.0	3.1	9.9	-2.9	-4.0	-3.1	5.2
	Dec	1.0	-1.5	-2.5	3.6	-1.4	-2.7	-4.7	-5.5	-5.2
2009	Mar	-15.7	-5.7	-4.5	-2.5 R	-0.4 R	-16.0	-6.4	-5.4	-0.6
	Jun	4.1 R	-3.4	-3.4	-4.0 R	-6.2 R	5.6	-2.3	-2.3	-4.3
	Sep	0.5	-0.8	-1.8	-5.0	-0.4	2.0	1.0	-0.2	-0.8
Percentage change from the same quarter of the previous year⁽⁷⁾										
Quarter										
2008	Sep	5.1	5.0	4.6	6.9	9.4	-2.4	-2.5	-3.0	1.3
	Dec	0.7	0.7	0.5	16.2	12.4	-8.9	-8.9	-8.8	1.2
2009	Mar	-6.1	-6.0	-5.9	9.9 R	9.7 R	-14.5	-14.4	-14.4	-0.6
	Jun	-10.7	-10.8	-10.0	0.0 R	1.2 R	-16.2	-16.4	-15.4	-5.1
	Sep	-11.0	-10.9	-11.7	-7.9	-8.3	-12.0	-12.0	-12.8	-10.5

(1) Volume series use price indexes to remove the effect of price changes and are recalculated each quarter.

(2) Seasonally adjusted values exclude estimated seasonal fluctuations and are recalculated each quarter.

(3) Trend values exclude estimated seasonal fluctuations and short-term irregular movements and are recalculated each quarter.

(4) Materials for use in production.

(5) Finished goods, trading goods and work in progress.

(6) Values exclude GST.

(7) Percentage changes are calculated on unrounded figures.

Note: ANZSIC Australian and New Zealand Standard Industrial Classification (1996)

Symbol: R revised

Table 3

Meat and Dairy Product Manufacturing
ANZSIC C211–C212

	Current values					Volumes (values at December 1997 quarter prices) ⁽¹⁾				
	Sales			Closing stocks of		Sales			Closing stocks of finished goods ⁽⁵⁾	
	Unadjusted	Seasonally adjusted ⁽²⁾	Trend ⁽³⁾	Raw materials ⁽⁴⁾	Finished goods ⁽⁵⁾	Unadjusted	Seasonally adjusted ⁽²⁾	Trend ⁽³⁾		
Series ref: MANQ.	SNMCZ1A	SNMCZ1AS	SNMCZ1AT	SNMCZ1D	SNMCZ1E	SNMRCZ1A	SNMRCZ1AS	SNMRCZ1AT	SNMRCZ1E	
\$(million)⁽⁶⁾										
Quarter										
2004	Sep	3,674	4,326	4,274	375	1,328	3,007	3,614	3,566	1,103
	Dec	3,935	4,125	4,217	345	2,321	3,246	3,288	3,429	1,917
2005	Mar	4,918	4,521	4,184	425	2,931	3,959	3,570	3,434	2,368
	Jun	4,562	4,114	4,181	431	2,478	3,599	3,338	3,393	1,946
	Sep	3,615	4,275	4,282	231	1,629	2,774	3,326	3,357	1,240
	Dec	4,314	4,508	4,416	251	2,748	3,430	3,515	3,436	2,144
2006	Mar	4,897	4,462	4,607	239	3,409	3,812	3,453	3,542	2,590
	Jun	5,526	5,037	4,952	234	2,914	4,089	3,756	3,703	2,124
	Sep	4,317	5,158	5,128	258	1,688	3,216	3,836	3,849	1,253
	Dec	4,694	4,900	4,916	258	2,500	3,681	3,827	3,797	1,952
2007	Mar	5,272	4,745	4,776	250	3,036	4,084	3,682	3,729	2,338
	Jun	5,410	4,959	4,959	232	2,633	4,120	3,760	3,734	1,980
	Sep	4,463	5,380	5,369	236	1,746	3,157	3,776	3,786	1,211
	Dec	5,692	5,845	5,913	218	3,225	3,607	3,794	3,804	1,977
2008	Mar	7,074	6,342	6,153	249	3,822	4,192	3,748	3,685	2,130
	Jun	6,445	5,930	6,111	220	3,207	3,778	3,438	3,523	1,801
	Sep	5,159	6,249	6,148	264	2,294	2,940	3,520	3,432	1,257
	Dec	6,279	6,470	6,647	295	3,700	3,165	3,382	3,603	1,800
2009	Mar	7,990	7,138	6,916	285 R	4,126 R	4,831	4,042	4,008	2,464
	Jun	6,928 R	6,388	6,383	300 R	3,190 R	4,899	4,344	4,218	2,270
	Sep	4,428	5,377	5,425	305	1,581	3,370	4,034	4,146	1,224
Percentage change from the previous quarter⁽⁷⁾										
Quarter										
2007	Sep	-17.5	8.5	8.3	1.8	-33.7	-23.4	0.4	1.4	-38.8
	Dec	27.5	8.6	10.1	-7.8	84.7	14.2	0.5	0.5	63.3
2008	Mar	24.3	8.5	4.0	14.3	18.5	16.2	-1.2	-3.1	7.8
	Jun	-8.9	-6.5	-0.7	-11.4	-16.1	-9.9	-8.3	-4.4	-15.4
	Sep	-20.0	5.4	0.6	19.7	-28.5	-22.2	2.4	-2.6	-30.2
	Dec	21.7	3.5	8.1	12.0	61.3	7.7	-3.9	5.0	43.2
2009	Mar	27.3	10.3	4.1	-3.6 R	11.5 R	52.7	19.5	11.2	36.8
	Jun	-13.3 R	-10.5	-7.7	5.2 R	-22.7 R	1.4	7.5	5.2	-7.9
	Sep	-36.1	-15.8	-15.0	1.9	-50.4	-31.2	-7.1	-1.7	-46.1
Percentage change from the same quarter of the previous year⁽⁷⁾										
Quarter										
2008	Sep	15.6	16.1	14.5	11.7	31.4	-6.9	-6.8	-9.3	3.8
	Dec	10.3	10.7	12.4	35.7	14.7	-12.2	-10.9	-5.3	-8.9
2009	Mar	12.9	12.6	12.4	14.5 R	8.0 R	15.3	7.9	8.8	15.6
	Jun	7.5 R	7.7	4.4	36.0 R	-0.5 R	29.7	26.4	19.7	26.0
	Sep	-14.2	-13.9	-11.8	15.8	-31.1	14.6	14.6	20.8	-2.6

(1) Volume series use price indexes to remove the effect of price changes and are recalculated each quarter.

(2) Seasonally adjusted values exclude estimated seasonal fluctuations and are recalculated each quarter.

(3) Trend values exclude estimated seasonal fluctuations and short-term irregular movements and are recalculated each quarter.

(4) Materials for use in production.

(5) Finished goods, trading goods and work in progress.

(6) Values exclude GST.

(7) Percentage changes are calculated on unrounded figures.

Note: ANZSIC Australian and New Zealand Standard Industrial Classification (1996)

Symbol: R revised

Table 4

Other Food Manufacturing
ANZSIC C213–C217

	Current values					Volumes (values at December 1997 quarter prices) ⁽¹⁾				
	Sales			Closing stocks of		Sales			Closing stocks of finished goods ⁽⁵⁾	
	Unadjusted	Seasonally adjusted ⁽²⁾	Trend ⁽³⁾	Raw materials ⁽⁴⁾	Finished goods ⁽⁵⁾	Unadjusted	Seasonally adjusted ⁽²⁾	Trend ⁽³⁾		
Series ref: MANQ.	SNMC03A	SNMC03AS	SNMC03AT	SNMC03D	SNMC03E	SNMRC03A	SNMRC03AS	SNMRC03AT	SNMRC03E	
\$(million)⁽⁶⁾										
Quarter										
2004	Sep	1,722	1,686	1,698	262	788	1,449	1,416	1,427	663
	Dec	1,712	1,665	1,659	237	657	1,441	1,406	1,397	553
2005	Mar	1,575	1,647	1,647	259	750	1,319	1,381	1,385	628
	Jun	1,664	1,665	1,674	295	676	1,398	1,395	1,402	568
	Sep	1,770	1,744	1,729	249	691	1,479	1,454	1,441	577
	Dec	1,830	1,782	1,797	245	664	1,504	1,469	1,486	546
2006	Mar	1,801	1,878	1,874	288	684	1,472	1,540	1,532	559
	Jun	1,932	1,927	1,917	270	643	1,558	1,550	1,545	519
	Sep	1,904	1,884	1,886	260	599	1,521	1,500	1,500	479
	Dec	1,893	1,845	1,852	274	618	1,491	1,457	1,464	487
2007	Mar	1,802	1,875	1,876	279	702	1,417	1,480	1,481	551
	Jun	1,946	1,939	1,927	272	727	1,542	1,531	1,519	576
	Sep	2,003	1,985	2,005	257	743	1,579	1,558	1,578	585
	Dec	2,182	2,127	2,116	296	749	1,700	1,664	1,647	583
2008	Mar	2,120	2,205	2,194	292	779	1,600	1,672	1,671	588
	Jun	2,214	2,206	2,224	276	689	1,649	1,635	1,644	513
	Sep	2,281	2,263	2,256	283	692	1,635	1,614	1,608	496
	Dec	2,325	2,264	2,253	288	730	1,625	1,590	1,549	510
2009	Mar	2,056	2,137	2,208	324	830	1,364	1,425	1,490	550
	Jun	2,206	2,198	2,201	315	843	1,491	1,478	1,483	570
	Sep	2,243	2,228	2,223	319	778	1,524	1,506	1,500	529
Percentage change from the previous quarter⁽⁷⁾										
Quarter										
2007	Sep	3.0	2.4	4.1	-5.5	2.1	2.4	1.8	3.9	1.5
	Dec	8.9	7.1	5.5	15.4	0.8	7.7	6.8	4.3	-0.4
2008	Mar	-2.8	3.7	3.7	-1.5	4.1	-5.9	0.5	1.5	0.9
	Jun	4.4	0.0	1.4	-5.5	-11.5	3.0	-2.2	-1.6	-12.7
	Sep	3.0	2.6	1.5	2.7	0.4	-0.8	-1.3	-2.2	-3.4
	Dec	1.9	0.0	-0.2	1.4	5.5	-0.7	-1.5	-3.6	2.9
2009	Mar	-11.5	-5.6	-2.0	12.8	13.6	-16.0	-10.3	-3.8	7.9
	Jun	7.3	2.8	-0.3	-2.9	1.6	9.2	3.7	-0.5	3.5
	Sep	1.7	1.4	1.0	1.2	-7.7	2.2	1.9	1.1	-7.2
Percentage change from the same quarter of the previous year⁽⁷⁾										
Quarter										
2008	Sep	13.9	14.0	12.5	10.4	-6.8	3.6	3.6	1.9	-15.2
	Dec	6.5	6.5	6.4	-3.0	-2.5	-4.4	-4.4	-5.9	-12.5
2009	Mar	-3.0	-3.1	0.6	11.1	6.4	-14.7	-14.7	-10.8	-6.4
	Jun	-0.3	-0.4	-1.0	14.0	22.3	-9.6	-9.6	-9.8	11.0
	Sep	-1.7	-1.6	-1.5	12.4	12.5	-6.8	-6.7	-6.7	6.6

(1) Volume series use price indexes to remove the effect of price changes and are recalculated each quarter.

(2) Seasonally adjusted values exclude estimated seasonal fluctuations and are recalculated each quarter.

(3) Trend values exclude estimated seasonal fluctuations and short-term irregular movements and are recalculated each quarter.

(4) Materials for use in production.

(5) Finished goods, trading goods and work in progress.

(6) Values exclude GST.

(7) Percentage changes are calculated on unrounded figures.

Note: ANZSIC Australian and New Zealand Standard Industrial Classification (1996)

Table 5

Beverage, Malt and Tobacco Manufacturing
ANZSIC C218–C219

	Current values					Volumes (values at December 1997 quarter prices) ⁽¹⁾				
	Sales			Closing stocks of		Sales			Closing stocks of finished goods ⁽⁵⁾	
	Unadjusted	Seasonally adjusted ⁽²⁾	Trend ⁽³⁾	Raw materials ⁽⁴⁾	Finished goods ⁽⁵⁾	Unadjusted	Seasonally adjusted ⁽²⁾	Trend ⁽³⁾		
Series ref: MANQ.	SNMCZ2A	SNMCZ2AS	SNMCZ2AT	SNMCZ2D	SNMCZ2E	SNMRCZ2A	SNMRCZ2AS	SNMRCZ2AT	SNMRCZ2E	
\$(million)⁽⁶⁾										
Quarter										
2004	Sep	735	773	775	209	510	582	617	617	412
	Dec	939	801	791	167	513	740	629	623	412
2005	Mar	756	794	805	189	462	592	621	629	370
	Jun	773	834	829	219	575	604	650	644	461
	Sep	808	855	855	220	616	617	657	658	482
	Dec	1,015	863	863	207	512	780	662	661	401
2006	Mar	818	866	867	227	532	625	661	661	416
	Jun	839	892	871	252	683	637	674	665	530
	Sep	792	853	874	233	590	610	661	672	457
	Dec	1,045	875	874	175	594	806	677	674	459
2007	Mar	823	877	880	192	570	626	667	671	435
	Jun	844	892	889	295	681	643	673	671	520
	Sep	826	897	899	295	690	615	672	672	516
	Dec	1,087	912	914	231	628	800	673	676	464
2008	Mar	878	933	930	248	611	644	684	681	450
	Jun	888	934	935	290	848	650	677	676	624
	Sep	857	937	938	314	969	600	661	662	682
	Dec	1,132	951	951	266	869	781	658	660	601
2009	Mar	917 R	971	972	255	940	630	668	666	649
	Jun	939 R	986	981	331 R	985 R	639	663	660	674
	Sep	893	979	983	308	959	579	640	643	624
Percentage change from the previous quarter⁽⁷⁾										
Quarter										
2007	Sep	-2.2	0.5	1.1	0.1	1.3	-4.3	-0.2	0.2	-0.8
	Dec	31.6	1.7	1.7	-21.8	-8.9	30.1	0.2	0.5	-10.1
2008	Mar	-19.2	2.3	1.7	7.6	-2.8	-19.5	1.6	0.8	-3.1
	Jun	1.1	0.0	0.6	16.7	38.8	1.0	-1.1	-0.8	38.8
	Sep	-3.5	0.3	0.3	8.4	14.2	-7.7	-2.4	-2.0	9.3
	Dec	32.1	1.5	1.5	-15.4	-10.3	30.0	-0.4	-0.4	-11.8
2009	Mar	-19.0 R	2.2	2.1	-4.2	8.1	-19.3	1.5	0.9	8.0
	Jun	2.4 R	1.5	1.0	30.2 R	4.8 R	1.5	-0.7	-1.0	3.8
	Sep	-4.9	-0.7	0.2	-7.0	-2.6	-9.5	-3.5	-2.5	-7.5
Percentage change from the same quarter of the previous year⁽⁷⁾										
Quarter										
2008	Sep	3.8	4.4	4.3	6.4	40.4	-2.4	-1.7	-1.4	32.1
	Dec	4.2	4.2	4.1	15.2	38.3	-2.4	-2.2	-2.3	29.6
2009	Mar	4.4 R	4.1	4.5	2.5	53.8	-2.1	-2.4	-2.2	44.4
	Jun	5.8 R	5.6	5.0	14.4 R	16.2 R	-1.7	-2.0	-2.4	8.1
	Sep	4.2	4.5	4.9	-1.9	-1.0	-3.6	-3.1	-2.9	-8.5

(1) Volume series use price indexes to remove the effect of price changes and are recalculated each quarter.

(2) Seasonally adjusted values exclude estimated seasonal fluctuations and are recalculated each quarter.

(3) Trend values exclude estimated seasonal fluctuations and short-term irregular movements and are recalculated each quarter.

(4) Materials for use in production.

(5) Finished goods, trading goods and work in progress.

(6) Values exclude GST.

(7) Percentage changes are calculated on unrounded figures.

Note: ANZSIC Australian and New Zealand Standard Industrial Classification (1996)

Symbol: R revised

Table 6

Textile and Apparel Manufacturing
ANZSIC C22

	Current values					Volumes (values at December 1997 quarter prices) ⁽¹⁾				
	Sales			Closing stocks of		Sales			Closing stocks of finished goods ⁽⁵⁾	
	Unadjusted	Seasonally adjusted ⁽²⁾	Trend ⁽³⁾	Raw materials ⁽⁴⁾	Finished goods ⁽⁵⁾	Unadjusted	Seasonally adjusted ⁽²⁾	Trend ⁽³⁾		
Series ref: MANQ.	SNMC06A	SNMC06AS	SNMC06AT	SNMC06D	SNMC06E	SNMRC06A	SNMRC06AS	SNMRC06AT	SNMRC06E	
\$(million)⁽⁶⁾										
Quarter										
2004	Sep	727	703	699	190	325	670	648	646	301
	Dec	702	704	699	192	346	654	656	651	326
2005	Mar	634	667	674	197	366	600	629	634	348
	Jun	659	646	638	198	346	623	612	607	329
	Sep	602	583	610	202	359	571	555	587	341
	Dec	603	605	600	192	350	581	582	580	340
2006	Mar	581	610	615	181	346	560	586	588	337
	Jun	646	635	627	178	308	609	599	594	294
	Sep	642	622	626	189	295	609	591	593	282
	Dec	617	619	621	182	311	588	590	591	301
2007	Mar	595	623	618	171	315	571	595	593	306
	Jun	619	609	617	187	285	598	591	596	281
	Sep	642	622	615	200	302	620	599	594	296
	Dec	601	602	604	202	285	574	577	579	276
2008	Mar	555	581	580	180	292	530	551	551	282
	Jun	566	559	560	165	286	535	529	530	275
	Sep	564	546	546	165	295	535	516	516	283
	Dec	535	537	537	175	313	506	510	511	303
2009	Mar	502	524	523	148	242	488	507	506	238
	Jun	507	501	502	164	244	497	493	492	244
	Sep	496	479	479	139	240	490	473	474	242
Percentage change from the previous quarter⁽⁷⁾										
Quarter										
2007	Sep	3.7	2.1	-0.2	7.1	6.2	3.5	1.4	-0.3	5.3
	Dec	-6.4	-3.1	-1.7	1.0	-5.5	-7.4	-3.6	-2.6	-6.9
2008	Mar	-7.6	-3.5	-4.0	-10.6	2.4	-7.6	-4.6	-4.7	2.4
	Jun	2.0	-3.8	-3.5	-8.4	-2.1	0.9	-3.9	-3.9	-2.6
	Sep	-0.3	-2.2	-2.4	-0.5	3.3	0.0	-2.6	-2.6	3.0
	Dec	-5.1	-1.6	-1.7	6.2	6.1	-5.4	-1.2	-1.1	7.0
2009	Mar	-6.3	-2.4	-2.6	-15.5	-22.7	-3.5	-0.6	-1.0	-21.3
	Jun	1.0	-4.4	-4.1	11.0	0.7	1.8	-2.8	-2.7	2.4
	Sep	-2.2	-4.5	-4.6	-15.1	-1.4	-1.4	-4.1	-3.7	-0.9
Percentage change from the same quarter of the previous year⁽⁷⁾										
Quarter										
2008	Sep	-12.0	-12.2	-11.2	-17.7	-2.2	-13.7	-13.9	-13.1	-4.4
	Dec	-10.9	-10.8	-11.1	-13.4	9.8	-11.8	-11.7	-11.7	9.9
2009	Mar	-9.6	-9.8	-9.9	-18.1	-17.1	-7.8	-8.0	-8.3	-15.5
	Jun	-10.5	-10.3	-10.4	-0.8	-14.7	-7.0	-6.9	-7.1	-11.2
	Sep	-12.2	-12.3	-12.4	-15.4	-18.6	-8.3	-8.4	-8.2	-14.6

(1) Volume series use price indexes to remove the effect of price changes and are recalculated each quarter.

(2) Seasonally adjusted values exclude estimated seasonal fluctuations and are recalculated each quarter.

(3) Trend values exclude estimated seasonal fluctuations and short-term irregular movements and are recalculated each quarter.

(4) Materials for use in production.

(5) Finished goods, trading goods and work in progress.

(6) Values exclude GST.

(7) Percentage changes are calculated on unrounded figures.

Note: ANZSIC Australian and New Zealand Standard Industrial Classification (1996)

Table 7

Wood Product Manufacturing
ANZSIC C231–C232

	Current values					Volumes (values at December 1997 quarter prices) ⁽¹⁾				
	Sales			Closing stocks of		Sales			Closing stocks of finished goods ⁽⁵⁾	
	Unadjusted	Seasonally adjusted ⁽²⁾	Trend ⁽³⁾	Raw materials ⁽⁴⁾	Finished goods ⁽⁵⁾	Unadjusted	Seasonally adjusted ⁽²⁾	Trend ⁽³⁾		
Series ref: MANQ.	SNMC07A	SNMC07AS	SNMC07AT	SNMC07D	SNMC07E	SNMRC07A	SNMRC07AS	SNMRC07AT	SNMRC07E	
\$(million)⁽⁶⁾										
Quarter										
2004	Sep	1,201	1,153	1,152	133	486	1,157	1,113	1,109	468
	Dec	1,149	1,115	1,111	134	475	1,104	1,073	1,070	457
2005	Mar	981	1,071	1,084	132	438	941	1,023	1,033	420
	Jun	1,099	1,086	1,073	166	498	1,035	1,024	1,015	469
	Sep	1,108	1,059	1,064	160	484	1,041	999	1,000	455
	Dec	1,104	1,073	1,083	146	465	1,023	994	1,004	431
2006	Mar	1,037	1,140	1,121	146	461	946	1,035	1,019	421
	Jun	1,141	1,129	1,142	151	456	1,025	1,014	1,027	410
	Sep	1,222	1,161	1,156	157	472	1,089	1,040	1,035	421
	Dec	1,210	1,175	1,168	162	440	1,084	1,050	1,046	394
2007	Mar	1,064	1,174	1,193	168	441	955	1,050	1,066	396
	Jun	1,262	1,252	1,236	178	444	1,114	1,104	1,086	392
	Sep	1,313	1,242	1,243	187	463	1,114	1,061	1,065	393
	Dec	1,235	1,197	1,202	157	435	1,049	1,013	1,018	370
2008	Mar	1,046	1,160	1,155	166	487	895	990	985	417
	Jun	1,109	1,104	1,104	168	501	953	945	944	430
	Sep	1,125	1,059	1,070	147	529	952	904	917	447
	Dec	1,133	1,097	1,039	150	501	943	910	886	416
2009	Mar	880	977	983	156	489	737	818	830	410
	Jun	945	941	958	142	448	811	805	821	385
	Sep	1,051	987	972	134	444	926	878	862	392
Percentage change from the previous quarter⁽⁷⁾										
Quarter										
2007	Sep	4.1	-0.8	0.6	4.8	4.3	0.0	-4.0	-1.9	0.2
	Dec	-6.0	-3.7	-3.3	-15.9	-5.9	-5.9	-4.5	-4.4	-5.9
2008	Mar	-15.3	-3.1	-3.9	5.2	11.9	-14.7	-2.2	-3.3	12.8
	Jun	6.0	-4.8	-4.5	1.2	2.8	6.5	-4.5	-4.1	3.2
	Sep	1.5	-4.0	-3.1	-12.2	5.6	-0.1	-4.4	-2.8	4.0
	Dec	0.7	3.6	-2.9	2.2	-5.3	-1.0	0.7	-3.4	-6.9
2009	Mar	-22.4	-10.9	-5.4	3.8	-2.4	-21.8	-10.1	-6.3	-1.7
	Jun	7.4	-3.7	-2.6	-9.1	-8.3	9.9	-1.7	-1.1	-6.0
	Sep	11.3	4.9	1.5	-5.5	-0.8	14.2	9.1	5.0	1.8
Percentage change from the same quarter of the previous year⁽⁷⁾										
Quarter										
2008	Sep	-14.3	-14.7	-13.9	-21.4	14.2	-14.5	-14.8	-13.9	13.9
	Dec	-8.3	-8.3	-13.6	-4.5	15.0	-10.1	-10.2	-13.0	12.7
2009	Mar	-15.9	-15.7	-14.9	-5.8	0.3	-17.6	-17.4	-15.7	-1.7
	Jun	-14.8	-14.7	-13.2	-15.4	-10.5	-14.9	-14.9	-13.0	-10.5
	Sep	-6.6	-6.8	-9.2	-8.9	-15.9	-2.8	-2.9	-6.1	-12.4

(1) Volume series use price indexes to remove the effect of price changes and are recalculated each quarter.

(2) Seasonally adjusted values exclude estimated seasonal fluctuations and are recalculated each quarter.

(3) Trend values exclude estimated seasonal fluctuations and short-term irregular movements and are recalculated each quarter.

(4) Materials for use in production.

(5) Finished goods, trading goods and work in progress.

(6) Values exclude GST.

(7) Percentage changes are calculated on unrounded figures.

Note: ANZSIC Australian and New Zealand Standard Industrial Classification (1996)

Table 8

Paper and Paper Product Manufacturing
ANZSIC C233

	Current values					Volumes (values at December 1997 quarter prices) ⁽¹⁾				
	Sales			Closing stocks of		Sales			Closing stocks of finished goods ⁽⁵⁾	
	Unadjusted	Seasonally adjusted ⁽²⁾	Trend ⁽³⁾	Raw materials ⁽⁴⁾	Finished goods ⁽⁵⁾	Unadjusted	Seasonally adjusted ⁽⁶⁾	Trend ⁽³⁾		
Series ref: MANQ.	SNMC08A	SNMC08AS	SNMC08AT	SNMC08D	SNMC08E	SNMRC08A		SNMRC08AT	SNMRC08E	
\$(million)⁽⁷⁾										
Quarter										
2004	Sep	651	670	679	112	228	606	...	632	213
	Dec	704	689	690	118	228	664	...	652	217
2005	Mar	711	720	713	111	250	671	...	668	238
	Jun	720	708	709	114	249	678	...	668	238
	Sep	665	684	682	109	233	636	...	650	225
	Dec	682	667	677	112	249	644	...	637	238
2006	Mar	691	699	685	112	231	652	...	631	221
	Jun	695	686	701	118	256	617	...	632	229
	Sep	708	726	715	116	230	618	...	626	201
	Dec	728	710	710	108	204	635	...	617	178
2007	Mar	674	684	690	112	226	582	...	603	195
	Jun	701	693	689	119	227	616	...	603	200
	Sep	687	702	708	144	269	597	...	614	234
	Dec	752	732	723	148	252	653	...	637	219
2008	Mar	701	714	739	155	270	632	...	648	245
	Jun	766	759	750	158	253	669	...	642	221
	Sep	733	747	751	154	255	601	...	615	209
	Dec	761	739	738	166	256	595	...	598	200
2009	Mar	709	724	723	166	264	591	...	604	219
	Jun	713	705	708	135	236	643	...	626	212
	Sep	684	696	695	152	230	629	...	641	211
Percentage change from the previous quarter⁽⁸⁾										
Quarter										
2007	Sep	-2.0	1.3	2.7	21.1	18.6	-3.1	...	1.9	16.9
	Dec	9.4	4.2	2.2	2.4	-6.2	9.5	...	3.7	-6.3
2008	Mar	-6.7	-2.4	2.2	4.8	7.2	-3.2	...	1.9	11.5
	Jun	9.2	6.2	1.4	2.3	-6.4	5.8	...	-1.0	-9.7
	Sep	-4.3	-1.6	0.1	-2.8	0.9	-10.2	...	-4.2	-5.2
	Dec	3.8	-1.0	-1.7	7.8	0.2	-1.0	...	-2.7	-4.5
2009	Mar	-6.8	-2.0	-2.0	0.1	3.2	-0.7	...	0.9	9.3
	Jun	0.5	-2.6	-2.2	-18.9	-10.8	8.8	...	3.7	-3.1
	Sep	-4.1	-1.3	-1.9	12.6	-2.6	-2.1	...	2.4	-0.3
Percentage change from the same quarter of the previous year⁽⁸⁾										
Quarter										
2008	Sep	6.6	6.3	6.1	6.7	-5.0	0.6	...	0.2	-10.6
	Dec	1.1	1.0	2.0	12.4	1.5	-9.0	...	-6.0	-8.8
2009	Mar	1.1	1.4	-2.1	7.4	-2.3	-6.6	...	-6.9	-10.7
	Jun	-6.9	-7.0	-5.6	-14.9	-6.9	-3.9	...	-2.4	-4.1
	Sep	-6.7	-6.7	-7.5	-1.5	-10.1	4.7	...	4.3	0.9

(1) Volume series use price indexes to remove the effect of price changes and are recalculated each quarter.

(2) Seasonally adjusted values exclude estimated seasonal fluctuations and are recalculated each quarter.

(3) Trend values exclude estimated seasonal fluctuations and short-term irregular movements and are recalculated each quarter.

(4) Materials for use in production.

(5) Finished goods, trading goods and work in progress.

(6) This series is not seasonally adjusted. This is because it has unstable seasonality.

(7) Values exclude GST.

(8) Percentage changes are calculated on unrounded figures.

Note: ANZSIC Australian and New Zealand Standard Industrial Classification (1996)

Symbol: ... not applicable

Table 9

**Printing, Publishing and Recorded Media Manufacturing
ANZSIC C24**

	Current values					Volumes (values at December 1997 quarter prices) ⁽¹⁾				
	Sales			Closing stocks of		Sales			Closing stocks of finished goods ⁽⁵⁾	
	Unadjusted	Seasonally adjusted ⁽²⁾	Trend ⁽³⁾	Raw materials ⁽⁴⁾	Finished goods ⁽⁵⁾	Unadjusted	Seasonally adjusted ⁽²⁾	Trend ⁽³⁾		
Series ref: MANQ.	SNMC09A	SNMC09AS	SNMC09AT	SNMC09D	SNMC09E	SNMRC09A	SNMRC09AS	SNMRC09AT	SNMRC09E	
\$(million)⁽⁶⁾										
Quarter										
2004	Sep	918	896	915	99	81	724	707	727	64
	Dec	974	936	934	94	87	766	735	734	68
2005	Mar	892	953	949	89	95	693	740	737	74
	Jun	945	941	945	90	104	728	727	729	80
	Sep	961	940	938	92	106	735	720	718	81
	Dec	971	938	941	104	108	741	714	717	82
2006	Mar	890	952	948	104	102	677	724	721	77
	Jun	964	953	957	104	94	732	725	727	71
	Sep	983	964	959	102	113	742	729	727	85
	Dec	978	949	951	90	99	747	721	722	75
2007	Mar	883	945	949	99	109	668	715	717	83
	Jun	978	960	951	89	93	730	719	712	69
	Sep	964	948	959	87	100	713	703	711	74
	Dec	1,008	979	974	85	94	751	726	722	70
2008	Mar	915	981	979	91	93	682	730	728	69
	Jun	976	953	956	97	113	726	711	715	84
	Sep	937	924	918	110	99	703	694	688	74
	Dec	900	876	881	104	104	672	651	654	77
2009	Mar	810	869	872	95	101	590	632	635	74
	Jun	911	887	877	80	83	651	637	630	59
	Sep	876	866	873	77	87	622	616	620	62
Percentage change from the previous quarter⁽⁷⁾										
Quarter										
2007	Sep	-1.4	-1.2	0.8	-2.4	7.5	-2.3	-2.2	-0.1	6.5
	Dec	4.5	3.3	1.6	-2.1	-6.0	5.3	3.4	1.5	-5.3
2008	Mar	-9.2	0.1	0.5	6.4	-0.8	-9.2	0.5	0.8	-0.8
	Jun	6.7	-2.8	-2.3	6.7	20.9	6.5	-2.6	-1.8	20.6
	Sep	-4.0	-3.0	-4.0	13.1	-12.6	-3.2	-2.4	-3.8	-11.8
	Dec	-4.0	-5.2	-4.0	-5.4	5.3	-4.3	-6.3	-4.9	4.9
2009	Mar	-10.0	-0.8	-1.0	-8.1	-2.5	-12.3	-2.9	-2.9	-5.0
	Jun	12.5	2.1	0.6	-16.0	-18.4	10.5	0.7	-0.8	-19.9
	Sep	-3.8	-2.4	-0.5	-4.2	5.0	-4.4	-3.3	-1.5	4.3
Percentage change from the same quarter of the previous year⁽⁷⁾										
Quarter										
2008	Sep	-2.8	-2.6	-4.2	25.8	-1.4	-1.5	-1.2	-3.3	-0.1
	Dec	-10.7	-10.6	-9.5	21.6	10.4	-10.5	-10.4	-9.4	10.7
2009	Mar	-11.5	-11.4	-10.9	5.0	8.5	-13.5	-13.5	-12.7	6.0
	Jun	-6.7	-6.9	-8.2	-17.3	-26.8	-10.3	-10.5	-11.9	-29.6
	Sep	-6.5	-6.3	-4.9	-30.0	-12.1	-11.4	-11.3	-9.8	-16.7

(1) Volume series use price indexes to remove the effect of price changes and are recalculated each quarter.

(2) Seasonally adjusted values exclude estimated seasonal fluctuations and are recalculated each quarter.

(3) Trend values exclude estimated seasonal fluctuations and short-term irregular movements and are recalculated each quarter.

(4) Materials for use in production.

(5) Finished goods, trading goods and work in progress.

(6) Values exclude GST.

(7) Percentage changes are calculated on unrounded figures.

Note: ANZSIC Australian and New Zealand Standard Industrial Classification (1996)

Table 10

Petroleum and Industrial Chemical Manufacturing
ANZSIC C251–C253

	Current values					Volumes (values at December 1997 quarter prices) ⁽¹⁾				
	Sales			Closing stocks of		Sales			Closing stocks of finished goods ⁽⁵⁾	
	Unadjusted	Seasonally adjusted ⁽²⁾	Trend ⁽³⁾	Raw materials ⁽⁴⁾	Finished goods ⁽⁵⁾	Unadjusted	Seasonally adjusted ⁽²⁾	Trend ⁽³⁾		
Series ref: MANQ.	SNMC10A	SNMC10AS	SNMC10AT	SNMC10D	SNMC10E	SNMRC10A	SNMRC10AS	SNMRC10AT	SNMRC10E	
\$(million)⁽⁶⁾										
Quarter										
2004	Sep	732	782	798	214	213	617	656	677	184
	Dec	962	835	842	309	282	816	715	711	246
2005	Mar	815	896	868	215	222	674	739	721	185
	Jun	803	801	819	209	203	653	648	662	168
	Sep	717	767	776	229	262	573	610	616	..
	Dec	903	778	739	213	237	711	623	582	193
2006	Mar	583	648	685	207	191	462	511	522	151
	Jun	669	668	653	171	192	481	474	474	150
	Sep	606	647	648	197	222	435	461	457	168
	Dec	750	641	650	204	207	515	452	457	143
2007	Mar	604	682	674	186	205	427	479	478	145
	Jun	684	680	675	169	183	507	496	485	142
	Sep	618	657	666	223	246	441	463	475	184
	Dec	821	700	701	151	181	548	484	478	122
2008	Mar	677	772	761	186	270	438	496	498	177
	Jun	825	818	844	269	241	527	513	516	152
	Sep	884	936	907	256	440	496	516	504	241
	Dec	1,021	871	870	.. C	.. C	449	398	455	202
2009	Mar	665 R	763	788	369	424	366	417	421	233
	Jun	775	767	747	304	274	456	442	445	155
	Sep	662	699	712	265	317	473	491	487	184
Percentage change from the previous quarter⁽⁷⁾										
Quarter										
2007	Sep	-9.7	-3.3	-1.3	31.8	35.0	-13.0	-6.7	-2.1	29.8
	Dec	32.9	6.4	5.3	-32.6	-26.4	24.3	4.5	0.7	-33.5
2008	Mar	-17.5	10.4	8.5	23.3	48.8	-20.0	2.6	4.3	45.2
	Jun	21.8	5.9	10.9	44.9	-10.8	20.3	3.4	3.5	-14.1
	Sep	7.1	14.4	7.5	-4.9	82.7	-6.0	0.5	-2.2	58.1
	Dec	15.6	-6.9	-4.1	..	..	-9.5	-22.8	-9.7	-16.2
2009	Mar	-34.9 R	-12.4	-9.4	..	..	-18.5	4.7	-7.5	15.1
	Jun	16.5 R	0.6	-5.2	-17.4 R	-35.4	24.7	6.1	5.7	-33.2
	Sep	-14.6	-8.8	-4.6	-12.8	15.8	3.7	11.0	9.3	18.3
Percentage change from the same quarter of the previous year⁽⁷⁾										
Quarter										
2008	Sep	43.1	42.4	36.2	14.6	78.5	12.4	11.4	6.2	31.2
	Dec	24.5	24.5	24.0	..	..	-18.1	-17.7	-4.8	65.4
2009	Mar	-1.8 R	-1.2	3.5	98.4 R	57.0 R	-16.5	-16.0	-15.5	31.1
	Jun	-6.1	-6.3	-11.5	13.0	13.7	-13.5	-13.9	-13.7	1.9
	Sep	-25.1	-25.3	-21.5	3.7	-27.9	-4.5	-4.8	-3.5	-23.8

(1) Volume series use price indexes to remove the effect of price changes and are recalculated each quarter.

(2) Seasonally adjusted values exclude estimated seasonal fluctuations and are recalculated each quarter.

(3) Trend values exclude estimated seasonal fluctuations and short-term irregular movements and are recalculated each quarter.

(4) Materials for use in production.

(5) Finished goods, trading goods and work in progress.

(6) Values exclude GST.

(7) Percentage changes are calculated on unrounded figures.

Note: ANZSIC Australian and New Zealand Standard Industrial Classification (1996)

Symbols: .. not available C confidential R revised

Table 11

Rubber, Plastic and Other Chemical Product Manufacturing
ANZSIC C254–C256

	Current values					Volumes (values at December 1997 quarter prices) ⁽¹⁾				
	Sales			Closing stocks of		Sales			Closing stocks of finished goods ⁽⁵⁾	
	Unadjusted	Seasonally adjusted ⁽²⁾	Trend ⁽³⁾	Raw materials ⁽⁴⁾	Finished goods ⁽⁵⁾	Unadjusted	Seasonally adjusted ⁽²⁾	Trend ⁽³⁾		
Series ref: MANQ.	SNMC11A	SNMC11AS	SNMC11AT	SNMC11D	SNMC11E	SNMRC11A	SNMRC11AS	SNMRC11AT	SNMRC11E	
\$(million)⁽⁶⁾										
Quarter										
2004	Sep	1,126	1,132	1,132	232	579	1,007	1,011	1,010	520
	Dec	1,276	1,158	1,156	235	541	1,118	1,017	1,016	477
2005	Mar	1,096	1,163	1,162	254	565	951	1,009	1,007	496
	Jun	1,114	1,158	1,161	260	548	956	993	1,000	475
	Sep	1,187	1,195	1,165	270	644	1,014	1,018	1,005	556
	Dec	1,262	1,146	1,189	264	568	1,087	991	1,024	492
2006	Mar	1,164	1,232	1,229	263	596	999	1,057	1,055	513
	Jun	1,222	1,270	1,270	301	608	1,045	1,085	1,082	522
	Sep	1,284	1,296	1,295	284	651	1,080	1,087	1,087	551
	Dec	1,437	1,304	1,306	308	673	1,186	1,080	1,083	559
2007	Mar	1,234	1,306	1,303	279	576	1,019	1,078	1,074	478
	Jun	1,239	1,287	1,286	274	592	1,017	1,053	1,054	488
	Sep	1,253	1,266	1,271	273	622	1,023	1,032	1,038	510
	Dec	1,398	1,267	1,261	277	564	1,136	1,034	1,026	460
2008	Mar	1,174	1,243	1,249	270	558	945	1,001	1,007	451
	Jun	1,192	1,236	1,232	255	578	950	983	978	463
	Sep	1,196	1,210	1,212	268	651	934	942	945	511
	Dec	1,307	1,185	1,184	280	603	994	905	904	462
2009	Mar	1,092	1,156	1,158	283	577	819	868	869	434
	Jun	1,097	1,137	1,138	282	570	815	842	844	426
	Sep	1,109	1,123	1,122	252	565	818	826	824	419
Percentage change from the previous quarter⁽⁷⁾										
Quarter										
2007	Sep	1.1	-1.6	-1.2	-0.3	5.1	0.6	-2.1	-1.5	4.5
	Dec	11.6	0.1	-0.8	1.4	-9.4	11.0	0.3	-1.1	-9.9
2008	Mar	-16.0	-1.9	-0.9	-2.5	-1.1	-16.8	-3.3	-1.8	-1.9
	Jun	1.5	-0.6	-1.4	-5.5	3.7	0.6	-1.8	-2.9	2.6
	Sep	0.4	-2.1	-1.6	5.3	12.7	-1.7	-4.1	-3.4	10.5
	Dec	9.3	-2.0	-2.3	4.2	-7.4	6.5	-3.9	-4.3	-9.5
2009	Mar	-16.5	-2.4	-2.2	1.1	-4.4	-17.6	-4.1	-3.9	-6.1
	Jun	0.4	-1.7	-1.7	-0.3	-1.1	-0.5	-2.9	-2.9	-1.9
	Sep	1.1	-1.3	-1.4	-10.5	-0.8	0.3	-2.0	-2.3	-1.6
Percentage change from the same quarter of the previous year⁽⁷⁾										
Quarter										
2008	Sep	-4.5	-4.4	-4.7	-1.7	4.7	-8.7	-8.6	-9.0	0.2
	Dec	-6.4	-6.5	-6.1	1.1	6.9	-12.5	-12.5	-11.9	0.6
2009	Mar	-7.0	-7.0	-7.3	4.8	3.4	-13.3	-13.3	-13.7	-3.7
	Jun	-8.0	-8.0	-7.6	10.6	-1.4	-14.2	-14.3	-13.7	-7.9
	Sep	-7.3	-7.2	-7.5	-6.0	-13.2	-12.4	-12.4	-12.7	-17.9

(1) Volume series use price indexes to remove the effect of price changes and are recalculated each quarter.

(2) Seasonally adjusted values exclude estimated seasonal fluctuations and are recalculated each quarter.

(3) Trend values exclude estimated seasonal fluctuations and short-term irregular movements and are recalculated each quarter.

(4) Materials for use in production.

(5) Finished goods, trading goods and work in progress.

(6) Values exclude GST.

(7) Percentage changes are calculated on unrounded figures.

Note: ANZSIC Australian and New Zealand Standard Industrial Classification (1996)

Table 12

Non-metallic Mineral Product Manufacturing
ANZSIC C26

	Current values					Volumes (values at December 1997 quarter prices) ⁽¹⁾				
	Sales			Closing stocks of		Sales			Closing stocks of finished goods ⁽⁵⁾	
	Unadjusted	Seasonally adjusted ⁽²⁾	Trend ⁽³⁾	Raw materials ⁽⁴⁾	Finished goods ⁽⁵⁾	Unadjusted	Seasonally adjusted ⁽²⁾	Trend ⁽³⁾		
Series ref: MANQ.	SNMC12A	SNMC12AS	SNMC12AT	SNMC12D	SNMC12E	SNMRC12A	SNMRC12AS	SNMRC12AT	SNMRC12E	
\$(million)⁽⁶⁾										
Quarter										
2004	Sep	607	593	597	47	148	540	527	532	131
	Dec	629	616	614	46	146	554	542	538	128
2005	Mar	600	636	635	50	139	512	543	546	119
	Jun	661	651	655	48	155	561	553	554	131
	Sep	682	670	663	50	149	571	561	557	125
	Dec	670	655	663	52	155	558	545	551	129
2006	Mar	628	663	654	65	152	518	547	538	125
	Jun	642	633	659	60	162	527	520	539	133
	Sep	693	685	675	57	159	567	560	550	130
	Dec	704	687	691	60	170	570	556	560	137
2007	Mar	666	699	703	62	176	535	563	566	141
	Jun	733	723	714	74	171	587	578	571	137
	Sep	717	713	723	75	185	567	563	572	146
	Dec	760	741	733	79	193	597	582	576	151
2008	Mar	707	740	749	84	189	552	578	585	147
	Jun	766	755	741	85	198	592	583	573	153
	Sep	712	711	725	79	209	538	535	551	158
	Dec	737	717	710	.. C	.. C	549	535	530	140
2009	Mar	658	688	683	87	202	485	508	504	149
	Jun	642	632	646	78	193	473	466	476	142
	Sep	632	633	623	76	185	466	465	457	136
Percentage change from the previous quarter⁽⁷⁾										
Quarter										
2007	Sep	-2.3	-1.4	1.2	0.4	7.9	-3.3	-2.7	0.2	6.7
	Dec	6.1	4.0	1.4	6.3	4.4	5.2	3.4	0.6	3.5
2008	Mar	-7.0	-0.2	2.2	5.3	-2.2	-7.6	-0.6	1.6	-2.7
	Jun	8.3	2.0	-1.0	2.1	5.1	7.3	0.9	-2.0	4.1
	Sep	-7.0	-5.8	-2.2	-7.3	5.5	-9.2	-8.3	-3.8	2.9
	Dec	3.5	0.9	-2.0	..	..	2.1	-0.1	-3.8	-11.2
2009	Mar	-10.7	-4.0	-3.9	..	..	-11.5	-5.0	-4.9	6.2
	Jun	-2.4	-8.1	-5.4	-10.6	-4.7	-2.5	-8.4	-5.7	-4.7
	Sep	-1.5	0.1	-3.6	-2.1	-3.8	-1.6	-0.1	-3.8	-3.9
Percentage change from the same quarter of the previous year⁽⁷⁾										
Quarter										
2008	Sep	-0.6	-0.3	0.3	6.0	13.2	-5.3	-5.0	-3.7	7.9
	Dec	-3.1	-3.2	-3.0	..	..	-8.0	-8.1	-7.9	-7.4
2009	Mar	-6.9	-6.9	-8.8	4.0	7.0	-12.0	-12.1	-13.7	1.1
	Jun	-16.1	-16.2	-12.9	-9.0	-2.9	-20.1	-20.2	-17.0	-7.5
	Sep	-11.2	-10.9	-14.1	-3.9	-11.5	-13.4	-13.1	-17.0	-13.6

(1) Volume series use price indexes to remove the effect of price changes and are recalculated each quarter.

(2) Seasonally adjusted values exclude estimated seasonal fluctuations and are recalculated each quarter.

(3) Trend values exclude estimated seasonal fluctuations and short-term irregular movements and are recalculated each quarter.

(4) Materials for use in production.

(5) Finished goods, trading goods and work in progress.

(6) Values exclude GST.

(7) Percentage changes are calculated on unrounded figures.

Note: ANZSIC Australian and New Zealand Standard Industrial Classification (1996)

Symbols: .. not available C confidential

Table 13

Basic Metal Manufacturing
ANZSIC C271–C273

	Current values					Volumes (values at December 1997 quarter prices) ⁽¹⁾				
	Sales			Closing stocks of		Sales			Closing stocks of finished goods ⁽⁵⁾	
	Unadjusted	Seasonally adjusted ⁽²⁾	Trend ⁽³⁾	Raw materials ⁽⁴⁾	Finished goods ⁽⁵⁾	Unadjusted	Seasonally adjusted ⁽²⁾	Trend ⁽³⁾		
Series ref: MANQ.	SNMC13A		SNMC13AT	SNMC13D	SNMC13E	SNMRC13A		SNMRC13AT	SNMRC13E	
\$(million)⁽⁶⁾										
Quarter										
2004	Sep	651	...	628	127	138	598	...	574	126
	Dec	518	...	560	97	183	472	...	500	166
2005	Mar	602	...	556	128	167	483	...	477	134
	Jun	623	...	627	138	155	517	...	522	129
	Sep	661	...	634	104	187	545	...	524	154
	Dec	561	...	586	119	166	468	...	488	139
2006	Mar	582	...	582	134	175	476	...	472	143
	Jun	646	...	646	123	174	495	...	499	133
	Sep	679	...	660	133	169	507	...	492	127
	Dec	613	...	630	122	165	447	...	459	120
2007	Mar	641	...	649	125	207	454	...	460	147
	Jun	719	...	703	118	226	503	...	493	158
	Sep	694	...	686	109	237	486	...	481	166
	Dec	624	...	634	110	246	436	...	444	172
2008	Mar	667	...	688	122	238	463	...	477	165
	Jun	844	...	835	139	233	566	...	554	156
	Sep	896	...	856	172	234	556	...	535	145
	Dec	694	...	735	173	221	400	...	421	127
2009	Mar	659	...	648	158	198	348	...	351	104
	Jun	587	...	655	146	156	323	...	354	86
	Sep	673	...	664	120	166	392	...	360	97
Percentage change from the previous quarter⁽⁷⁾										
Quarter										
2007	Sep	-3.5	...	-2.4	-7.3	4.9	-3.3	...	-2.5	5.2
	Dec	-10.0	...	-7.6	1.0	3.7	-10.3	...	-7.5	3.4
2008	Mar	6.9	...	8.5	10.6	-3.1	6.1	...	7.3	-3.8
	Jun	26.5	...	21.4	13.6	-2.1	22.2	...	16.3	-5.5
	Sep	6.2	...	2.5	24.4	0.3	-1.8	...	-3.5	-7.3
	Dec	-22.6	...	-14.1	0.4	-5.5	-28.1	...	-21.3	-12.2
2009	Mar	-5.1	...	-11.8	-8.9	-10.4	-13.0	...	-16.7	-17.9
	Jun	-10.9	...	1.1	-7.6	-21.2	-7.1	...	1.0	-17.9
	Sep	14.6	...	1.3	-17.4	6.3	21.5	...	1.5	12.8
Percentage change from the same quarter of the previous year⁽⁷⁾										
Quarter										
2008	Sep	29.3	...	24.7	57.8	-1.4	14.3	...	11.3	-12.8
	Dec	11.2	...	16.0	56.9	-10.2	-8.4	...	-5.3	-26.0
2009	Mar	-1.3	...	-5.7	29.3	-17.0	-24.9	...	-26.4	-36.8
	Jun	-30.4	...	-21.5	5.1	-33.2	-42.9	...	-36.1	-45.1
	Sep	-25.0	...	-22.4	-30.2	-29.1	-29.4	...	-32.8	-33.3

(1) Volume series use price indexes to remove the effect of price changes and are recalculated each quarter.

(2) This series is not seasonally adjusted. This is because it has unstable seasonality.

(3) Trend values exclude estimated seasonal fluctuations and short-term irregular movements and are recalculated each quarter.

(4) Materials for use in production.

(5) Finished goods, trading goods and work in progress.

(6) Values exclude GST.

(7) Percentage changes are calculated on unrounded figures.

Note: ANZSIC Australian and New Zealand Standard Industrial Classification (1996)

Symbol: ... not applicable

Table 14

Structural, Sheet and Fabricated Metal Product Manufacturing
ANZSIC C274–C276

	Current values					Volumes (values at December 1997 quarter prices) ⁽¹⁾				
	Sales			Closing stocks of		Sales			Closing stocks of finished goods ⁽⁵⁾	
	Unadjusted	Seasonally adjusted ⁽²⁾	Trend ⁽³⁾	Raw materials ⁽⁴⁾	Finished goods ⁽⁵⁾	Unadjusted	Seasonally adjusted ⁽²⁾	Trend ⁽³⁾		
Series ref: MANQ.	SNMC14A	SNMC14AS	SNMC14AT	SNMC14D	SNMC14E	SNMRC14A	SNMRC14AS	SNMRC14AT	SNMRC14E	
\$(million)⁽⁶⁾										
Quarter										
2004	Sep	1,244	1,188	1,171	211	238	1,130	1,082	1,067	216
	Dec	1,190	1,185	1,194	226	231	1,069	1,064	1,074	207
2005	Mar	1,130	1,220	1,221	244	246	1,001	1,080	1,076	217
	Jun	1,285	1,258	1,249	245	237	1,105	1,076	1,073	203
	Sep	1,319	1,253	1,267	234	254	1,109	1,059	1,070	213
	Dec	1,283	1,282	1,263	238	253	1,072	1,074	1,058	212
2006	Mar	1,130	1,227	1,234	240	223	939	1,019	1,029	185
	Jun	1,258	1,224	1,242	241	257	1,045	1,011	1,018	214
	Sep	1,379	1,309	1,278	214	250	1,088	1,037	1,020	198
	Dec	1,278	1,278	1,303	237	257	975	978	1,013	196
2007	Mar	1,223	1,340	1,331	237	290	933	1,022	1,012	221
	Jun	1,396	1,351	1,338	260	306	1,046	1,004	1,000	229
	Sep	1,358	1,287	1,301	245	313	1,006	958	964	232
	Dec	1,295	1,295	1,294	240	301	945	949	948	219
2008	Mar	1,214	1,337	1,343	243	288	865	953	959	205
	Jun	1,444	1,390	1,374	253	292	1,009	963	948	204
	Sep	1,425	1,352	1,371	272	292	931	886	901	191
	Dec	1,337	1,339	1,315	275	309	835	840	825	193
2009	Mar	1,098	1,212	1,228	268	294	670	740	750	180
	Jun	1,203	1,155	1,159	226	275	739	704	709	169
	Sep	1,187	1,127	1,122	214	257	739	704	697	160
Percentage change from the previous quarter⁽⁷⁾										
Quarter										
2007	Sep	-2.8	-4.7	-2.8	-5.9	2.5	-3.8	-4.6	-3.6	1.4
	Dec	-4.6	0.6	-0.5	-1.9	-4.1	-6.0	-0.9	-1.7	-5.5
2008	Mar	-6.3	3.2	3.8	1.1	-4.3	-8.5	0.4	1.2	-6.6
	Jun	19.0	3.9	2.3	4.2	1.3	16.7	1.1	-1.2	-0.6
	Sep	-1.3	-2.7	-0.2	7.4	0.0	-7.8	-8.0	-4.9	-6.5
	Dec	-6.2	-1.0	-4.1	1.1	5.9	-10.3	-5.3	-8.4	1.2
2009	Mar	-17.9	-9.5	-6.6	-2.5	-4.8	-19.7	-11.9	-9.0	-6.9
	Jun	9.5	-4.7	-5.7	-15.6	-6.6	10.3	-4.9	-5.5	-5.9
	Sep	-1.3	-2.4	-3.2	-5.5	-6.4	0.0	0.0	-1.7	-5.2
Percentage change from the same quarter of the previous year⁽⁷⁾										
Quarter										
2008	Sep	5.0	5.0	5.4	11.0	-6.9	-7.4	-7.5	-6.6	-17.9
	Dec	3.3	3.4	1.6	14.4	2.8	-11.7	-11.5	-12.9	-12.1
2009	Mar	-9.5	-9.4	-8.5	10.3	2.3	-22.5	-22.3	-21.8	-12.4
	Jun	-16.7	-16.9	-15.7	-10.6	-5.8	-26.8	-27.0	-25.1	-17.1
	Sep	-16.7	-16.7	-18.2	-21.4	-11.9	-20.6	-20.6	-22.6	-16.0

(1) Volume series use price indexes to remove the effect of price changes and are recalculated each quarter.

(2) Seasonally adjusted values exclude estimated seasonal fluctuations and are recalculated each quarter.

(3) Trend values exclude estimated seasonal fluctuations and short-term irregular movements and are recalculated each quarter.

(4) Materials for use in production.

(5) Finished goods, trading goods and work in progress.

(6) Values exclude GST.

(7) Percentage changes are calculated on unrounded figures.

Note: ANZSIC Australian and New Zealand Standard Industrial Classification (1996)

Table 15

Transport Equipment Manufacturing
ANZSIC C281–C282

	Current values					Volumes (values at December 1997 quarter prices) ⁽¹⁾				
	Sales			Closing stocks of		Sales			Closing stocks of finished goods ⁽⁵⁾	
	Unadjusted	Seasonally adjusted ⁽²⁾	Trend ⁽³⁾	Raw materials ⁽⁴⁾	Finished goods ⁽⁵⁾	Unadjusted	Seasonally adjusted ⁽²⁾	Trend ⁽³⁾		
Series ref: MANQ.	SNMC15A		SNMC15AT	SNMC15D	SNMC15E	SNMRC15A		SNMRC15AT	SNMRC15E	
\$(million)⁽⁶⁾										
Quarter										
2004	Sep	587	...	595	214	155	524	...	531	138
	Dec	649	...	621	207	139	580	...	554	123
2005	Mar	572	...	595	207	131	507	...	528	116
	Jun	587	...	585	211	150	516	...	514	132
	Sep	611	...	604	201	149	535	...	532	131
	Dec	586	...	587	213	148	519	...	513	131
2006	Mar	556	...	559	202	160	485	...	476	140
	Jun	555	...	552	204	152	461	...	456	127
	Sep	576	...	594	196	164	471	...	489	134
	Dec	648	...	609	192	179	543	...	507	150
2007	Mar	560	...	597	186	205	471	...	504	172
	Jun	627	...	614	182	234	533	...	519	199
	Sep	669	...	672	180	189	560	...	566	158
	Dec	689	...	672	194	197	579	...	563	165
2008	Mar	648	...	672	195	188	537	...	558	156
	Jun	739	...	742	221	168	593	...	593	134
	Sep	826	...	808	243	216	624	...	609	163
	Dec	739	...	726	237	179	512	...	501	126
2009	Mar	560	...	586	223	171	342	...	372	107
	Jun	551 R	...	561	220 R	150 R	354	...	355	98
	Sep	615	...	602	212	198	399	...	392	128
Percentage change from the previous quarter⁽⁷⁾										
Quarter										
2007	Sep	6.6	...	9.5	-0.8	-19.1	5.0	...	9.1	-20.4
	Dec	3.0	...	0.0	7.5	4.2	3.4	...	-0.5	4.5
2008	Mar	-6.0	...	0.0	0.8	-4.4	-7.3	...	-1.0	-5.8
	Jun	14.1	...	10.3	13.1	-10.7	10.5	...	6.3	-13.7
	Sep	11.7	...	8.9	9.9	28.4	5.2	...	2.8	21.5
	Dec	-10.5	...	-10.1	-2.4	-16.8	-18.0	...	-17.7	-23.0
2009	Mar	-24.3	...	-19.2	-5.9	-4.7	-33.2	...	-25.8	-15.2
	Jun	-1.6 R	...	-4.4	-1.3 R	-12.4 R	3.5	...	-4.5	-7.7
	Sep	11.7	...	7.3	-3.9	32.4	12.6	...	10.5	30.3
Percentage change from the same quarter of the previous year⁽⁷⁾										
Quarter										
2008	Sep	23.5	...	20.2	34.7	14.2	11.5	...	7.7	3.3
	Dec	7.3	...	8.0	22.4	-8.8	-11.6	...	-11.0	-23.9
2009	Mar	-13.6	...	-12.8	14.2	-9.0	-36.3	...	-33.4	-31.5
	Jun	-25.5 R	...	-24.4	-0.3 R	-10.9 R	-40.3	...	-40.1	-26.8
	Sep	-25.5	...	-25.5	-12.9	-8.0	-36.2	...	-35.6	-21.4

(1) Volume series use price indexes to remove the effect of price changes and are recalculated each quarter.

(2) This series is not seasonally adjusted. This is because it has unstable seasonality.

(3) Trend values exclude estimated seasonal fluctuations and short-term irregular movements and are recalculated each quarter.

(4) Materials for use in production.

(5) Finished goods, trading goods and work in progress.

(6) Values exclude GST.

(7) Percentage changes are calculated on unrounded figures.

Note: ANZSIC Australian and New Zealand Standard Industrial Classification (1996)

Symbols: ... not applicable R revised

Table 16

Machinery and Equipment Manufacturing
ANZSIC C283–C286

	Current values					Volumes (values at December 1997 quarter prices) ⁽¹⁾				
	Sales			Closing stocks of		Sales			Closing stocks of finished goods ⁽⁵⁾	
	Unadjusted	Seasonally adjusted ⁽²⁾	Trend ⁽³⁾	Raw materials ⁽⁴⁾	Finished goods ⁽⁵⁾	Unadjusted	Seasonally adjusted ⁽²⁾	Trend ⁽³⁾		
Series ref: MANQ.	SNMC16A	SNMC16AS	SNMC16AT	SNMC16D	SNMC16E	SNMRC16A	SNMRC16AS	SNMRC16AT	SNMRC16E	
\$(million)⁽⁶⁾										
Quarter										
2004	Sep	1,778	1,684	1,680	360	503	1,515	1,430	1,427	424
	Dec	1,701	1,706	1,693	365	475	1,438	1,437	1,428	396
2005	Mar	1,541	1,654	1,664	356	497	1,304	1,397	1,403	417
	Jun	1,681	1,657	1,666	378	492	1,399	1,392	1,398	408
	Sep	1,810	1,713	1,698	398	539	1,510	1,423	1,414	444
	Dec	1,702	1,705	1,711	368	527	1,405	1,402	1,403	429
2006	Mar	1,603	1,720	1,722	369	519	1,273	1,364	1,365	408
	Jun	1,775	1,754	1,759	386	549	1,343	1,339	1,351	410
	Sep	1,923	1,821	1,753	411	599	1,438	1,355	1,325	450
	Dec	1,696	1,695	1,726	399	648	1,271	1,265	1,298	484
2007	Mar	1,637	1,756	1,741	395	603	1,231	1,322	1,307	454
	Jun	1,800	1,782	1,778	404	625	1,346	1,343	1,339	472
	Sep	1,898	1,800	1,820	405	673	1,436	1,354	1,372	511
	Dec	1,906	1,898	1,872	394	709	1,439	1,428	1,405	529
2008	Mar	1,755	1,884	1,905	417	669	1,303	1,401	1,423	496
	Jun	1,938	1,918	1,898	433	612	1,432	1,427	1,407	446
	Sep	1,974	1,876	1,901	431	628	1,451	1,370	1,391	454
	Dec	1,911	1,901	1,879	460	690	1,380	1,369	1,353	486
2009	Mar	1,672	1,793	1,793	398	673	1,195	1,285	1,287	471
	Jun	1,671	1,654	1,671	391	612	1,199	1,193	1,202	438
	Sep	1,667	1,588	1,574	398	615	1,205	1,141	1,134	441
Percentage change from the previous quarter⁽⁷⁾										
Quarter										
2007	Sep	5.4	1.0	2.4	0.3	7.8	6.8	0.9	2.4	8.2
	Dec	0.4	5.5	2.8	-2.6	5.3	0.2	5.5	2.4	3.6
2008	Mar	-7.9	-0.7	1.7	5.7	-5.6	-9.4	-1.9	1.3	-6.3
	Jun	10.4	1.8	-0.3	3.9	-8.5	9.9	1.8	-1.1	-10.1
	Sep	1.9	-2.2	0.2	-0.4	2.6	1.3	-4.0	-1.2	1.8
	Dec	-3.2	1.3	-1.2	6.7	9.9	-4.9	-0.1	-2.7	7.0
2009	Mar	-12.5	-5.7	-4.6	-13.5	-2.5	-13.4	-6.1	-4.9	-2.9
	Jun	0.0	-7.8	-6.8	-1.7	-9.1	0.3	-7.1	-6.6	-7.2
	Sep	-0.2	-4.0	-5.8	1.6	0.5	0.6	-4.4	-5.7	0.7
Percentage change from the same quarter of the previous year⁽⁷⁾										
Quarter										
2008	Sep	4.0	4.2	4.4	6.5	-6.8	1.0	1.2	1.4	-11.1
	Dec	0.3	0.2	0.4	16.6	-2.7	-4.1	-4.1	-3.7	-8.3
2009	Mar	-4.7	-4.8	-5.9	-4.5	0.5	-8.3	-8.3	-9.5	-5.0
	Jun	-13.7	-13.8	-12.0	-9.6	-0.1	-16.3	-16.4	-14.6	-1.9
	Sep	-15.6	-15.4	-17.2	-7.8	-2.1	-16.9	-16.7	-18.5	-2.9

(1) Volume series use price indexes to remove the effect of price changes and are recalculated each quarter.

(2) Seasonally adjusted values exclude estimated seasonal fluctuations and are recalculated each quarter.

(3) Trend values exclude estimated seasonal fluctuations and short-term irregular movements and are recalculated each quarter.

(4) Materials for use in production.

(5) Finished goods, trading goods and work in progress.

(6) Values exclude GST.

(7) Percentage changes are calculated on unrounded figures.

Note: ANZSIC Australian and New Zealand Standard Industrial Classification (1996)

Table 17

Furniture and Other Manufacturing
ANZSIC C29

	Current values					Volumes (values at December 1997 quarter prices) ⁽¹⁾				
	Sales			Closing stocks of		Sales			Closing stocks of finished goods ⁽⁵⁾	
	Unadjusted	Seasonally adjusted ⁽²⁾	Trend ⁽³⁾	Raw materials ⁽⁴⁾	Finished goods ⁽⁵⁾	Unadjusted	Seasonally adjusted ⁽²⁾	Trend ⁽³⁾		
Series ref: MANQ.	SNMC17A	SNMC17AS	SNMC17AT	SNMC17D	SNMC17E	SNMRC17A	SNMRC17AS	SNMRC17AT	SNMRC17E	
\$(million)⁽⁶⁾										
Quarter										
2004	Sep	523	513	515	116	120	457	448	452	105
	Dec	559	520	524	123	134	489	457	456	118
2005	Mar	499	541	535	123	124	433	465	462	108
	Jun	521	530	533	120	125	448	457	458	108
	Sep	532	523	521	111	123	454	448	447	107
	Dec	559	519	525	125	118	476	443	446	102
2006	Mar	499	541	534	126	125	422	453	449	107
	Jun	521	530	534	126	121	434	443	445	102
	Sep	537	529	529	127	127	441	437	438	106
	Dec	574	533	534	130	124	473	437	438	104
2007	Mar	496	537	531	131	112	406	436	431	92
	Jun	506	515	521	127	121	406	414	420	99
	Sep	529	522	521	148	120	421	419	416	97
	Dec	567	525	520	132	114	448	412	410	91
2008	Mar	442	478	512	129	112	348	376	398	89
	Jun	499	507	497	124	119	385	392	382	94
	Sep	473	469	479	129	130	357	355	362	101
	Dec	503	464	455	131	124	374	344	337	93
2009	Mar	393	425	441	124	133	289	313	324	98
	Jun	438	445	444	118	125	321	327	326	92
	Sep	464	460	459	121	129	340	338	338	94
Percentage change from the previous quarter⁽⁷⁾										
Quarter										
2007	Sep	4.6	1.5	-0.1	16.3	-0.8	3.6	1.2	-1.0	-2.0
	Dec	7.1	0.4	-0.2	-11.0	-5.2	6.4	-1.7	-1.5	-6.0
2008	Mar	-22.1	-8.9	-1.5	-2.2	-1.5	-22.3	-8.7	-2.8	-2.3
	Jun	12.9	6.0	-3.0	-3.9	5.8	10.6	4.4	-4.0	4.8
	Sep	-5.0	-7.4	-3.6	4.6	9.7	-7.3	-9.4	-5.3	7.8
	Dec	6.2	-1.0	-5.0	1.1	-5.2	4.9	-3.3	-6.8	-8.0
2009	Mar	-21.8	-8.4	-3.0	-5.3	7.6	-22.7	-8.8	-4.0	5.5
	Jun	11.4	4.6	0.6	-4.5	-6.3	10.8	4.3	0.7	-6.3
	Sep	5.9	3.4	3.4	2.1	3.6	6.0	3.6	3.6	2.6
Percentage change from the same quarter of the previous year⁽⁷⁾										
Quarter										
2008	Sep	-10.5	-10.2	-8.1	-12.6	8.5	-15.2	-15.2	-13.0	3.7
	Dec	-11.3	-11.5	-12.5	-0.7	8.4	-16.4	-16.6	-17.7	1.5
2009	Mar	-11.0	-11.0	-13.8	-3.8	18.5	-16.9	-16.7	-18.7	9.6
	Jun	-12.2	-12.2	-10.6	-4.3	4.9	-16.7	-16.8	-14.7	-1.9
	Sep	-2.1	-2.0	-4.1	-6.6	-0.9	-4.8	-4.8	-6.7	-6.7

(1) Volume series use price indexes to remove the effect of price changes and are recalculated each quarter.

(2) Seasonally adjusted values exclude estimated seasonal fluctuations and are recalculated each quarter.

(3) Trend values exclude estimated seasonal fluctuations and short-term irregular movements and are recalculated each quarter.

(4) Materials for use in production.

(5) Finished goods, trading goods and work in progress.

(6) Values exclude GST.

(7) Percentage changes are calculated on unrounded figures.

Note: ANZSIC Australian and New Zealand Standard Industrial Classification (1996)

Table 18

Purchases and Operating Expenditure
By industry

Manufacturing industry	Series ref: MANQ.	Quarter								
		2007		2008				2009		
		Sep	Dec	Mar	Jun	Sep	Dec	Mar	Jun	Sep
\$(million)⁽¹⁾										
Meat and dairy products	SNMCZ1B	3,388	5,207	6,227	5,777	4,170	4,925	5,827	5,611 R	3,723
Other food	SNMC03B	1,530	1,592	1,661	1,636	1,764	1,702	1,527	1,662	1,684
Beverages, malt and tobacco	SNMCZ2B	573	650	579	653	570	671	572 R	643 R	576
Textiles and apparel	SNMC06B	448	398	365	379	393	369	338	326	332
Wood products	SNMC07B	967	864	787	837	846	799	669	698	807
Paper and paper products	SNMC08B	538	553	562	599	582	585	551	559	561
Printing, publishing and recorded media	SNMC09B	549	576	508	553	545	528	452	528	508
Petroleum and industrial chemicals	SNMC10B	441	590	472	635	610	783	577 R	619	492
Rubber, plastic and other chemical products	SNMC11B	891	961	824	860	879	925	775	775	759
Non-metallic mineral products	SNMC12B	481	499	490	497	513	510	454	439	442
Basic metals	SNMC13B	516	478	484	604	671	456	443	370	468
Structural, sheet and fabricated metal products	SNMC14B	867	879	822	960	975	888	748	796	810
Transport equipment	SNMC15B	436	455	400	506	533	442	334	322 R	388
Machinery and equipment	SNMC16B	1,287	1,272	1,187	1,327	1,325	1,243	1,115	1,107	1,120
Furniture and other	SNMC17B	362	380	320	353	350	353	276	305	322
All manufacturing excluding meat and dairy products	SNMCZ3B	9,886	10,149	9,462	10,398	10,555	10,255	8,831 R	9,148 R	9,269
All manufacturing	SNMCZZB	13,275	15,356	15,688	16,175	14,726	15,180	14,658 R	14,759 R	12,993
Percentage change from the same quarter of the previous year⁽²⁾										
Meat and dairy products		-2.2	27.5	52.3	24.2	23.1	-5.4	-6.4	-2.9 R	-10.7
Other food		6.7	14.0	20.2	8.5	15.3	6.9	-8.1	1.6	-4.5
Beverages, malt and tobacco		6.7	1.4	8.3	6.6	-0.6	3.2	-1.1 R	-1.6 R	1.1
Textiles and apparel		6.7	-6.1	-6.3	-10.1	-12.2	-7.2	-7.3	-14.0	-15.5
Wood products		8.9	-2.7	0.2	-10.1	-12.5	-7.6	-15.1	-16.7	-4.6
Paper and paper products		-6.2	2.3	7.2	15.9	8.0	5.7	-2.0	-6.7	-3.5
Printing, publishing and recorded media		-0.8	3.8	6.7	5.0	-0.7	-8.3	-11.0	-4.4	-6.9
Petroleum and industrial chemicals		6.0	10.0	8.6	30.3	38.3	32.6	22.2 R	-2.5	-19.4
Rubber, plastic and other chemical products		-4.0	-6.4	-6.0	-3.0	-1.4	-3.7	-5.9	-9.9	-13.6
Non-metallic mineral products		2.3	7.7	9.7	4.8	6.5	2.1	-7.5	-11.7	-13.9
Basic metals		0.6	11.8	3.0	18.4	30.1	-4.6	-8.5	-38.8	-30.2
Structural, sheet and fabricated metal products		-5.6	2.9	-2.6	4.0	12.5	1.0	-9.0	-17.2	-16.9
Transport equipment		18.8	13.3	11.2	25.7	22.2	-2.8	-16.6	-36.3 R	-27.1
Machinery and equipment		-3.1	7.0	7.2	8.2	3.0	-2.3	-6.0	-16.6	-15.5
Furniture and other		-3.3	-2.1	-4.5	3.0	-3.3	-7.0	-13.8	-13.4	-8.2
All manufacturing excluding meat and dairy products		1.7	4.3	5.5	6.4	6.8	1.0	-6.7 R	-12.0 R	-12.2
All manufacturing		0.7	11.1	20.2	12.2	10.9	-1.1	-6.6	-8.8	-11.8

(1) Values exclude GST.

(2) Percentage changes are calculated on unrounded figures.

Symbol: R revised

Table 19

Salaries and Wages
By industry

Manufacturing industry	Series ref: MANQ.	Quarter								
		2007		2008				2009		
		Sep	Dec	Mar	Jun	Sep	Dec	Mar	Jun	Sep
\$(million)⁽¹⁾										
Meat and dairy products	SNMCZ1C	405	462	581	564	438	503	568	519 R	434
Other food	SNMC03C	283	290	271	286	285	286	286	299	308
Beverages, malt and tobacco	SNMCZ2C	104	106	105	112	105	113	115	118 R	109
Textiles and apparel	SNMC06C	141	132	128	134	129	121	103	112	111
Wood products	SNMC07C	213	202	183	205	202	206	173	183	184
Paper and paper products	SNMC08C	88	92	93	97	91	90	90	92	90
Printing, publishing and recorded media	SNMC09C	233	244	224	256	258	257	236	246	231
Petroleum and industrial chemicals	SNMC10C	63	68	57	66	63	74	64	65	65
Rubber, plastic and other chemical products	SNMC11C	228	240	223	230	221	227	201	209	198
Non-metallic mineral products	SNMC12C	111	117	116	124	115	117	108	109	110
Basic metals	SNMC13C	102	103	99	111	108	104	92	90	96
Structural, sheet and fabricated metal products	SNMC14C	274	283	259	284	282	280	237	249	248
Transport equipment	SNMC15C	160	170	168	183	188	189	167	165	172
Machinery and equipment	SNMC16C	387	383	373	391	398	415	375	371	382
Furniture and other	SNMC17C	121	130	106	116	118	114	93	101	105
All manufacturing excluding meat and dairy products	SNMCZ3C	2,508	2,561	2,405	2,596	2,564	2,592	2,339	2,406 R	2,409
All manufacturing	SNMCZZC	2,913	3,023	2,986	3,159	3,002	3,095	2,908	2,926 R	2,844
Percentage change from the same quarter of the previous year⁽²⁾										
Meat and dairy products		0.6	1.6	8.2	14.0	8.0	8.8	-2.2	-7.8 R	-0.7
Other food		11.2	14.4	5.0	3.0	0.7	-1.5	5.4	4.5	8.3
Beverages, malt and tobacco		10.1	5.0	10.9	9.3	0.5	7.1	10.3	4.7 R	4.5
Textiles and apparel		-4.8	-10.4	-4.8	-4.0	-8.1	-8.3	-20.0	-16.3	-14.1
Wood products		8.3	1.0	1.9	-2.6	-5.0	1.9	-5.7	-11.0	-9.0
Paper and paper products		-4.1	0.6	4.5	4.4	3.0	-3.1	-3.8	-5.5	-1.4
Printing, publishing and recorded media		-2.1	0.7	2.6	8.1	11.0	5.2	5.6	-3.9	-10.5
Petroleum and industrial chemicals		3.7	-1.3	-7.2	4.9	0.4	8.6	12.1 R	-0.7	2.2
Rubber, plastic and other chemical products		-3.2	-3.2	0.9	-1.0	-3.2	-5.5	-9.6	-9.2	-10.3
Non-metallic mineral products		11.9	11.1	16.4	11.8	4.3	0.6	-7.1	-12.6	-4.8
Basic metals		12.0	15.0	10.1	27.0	6.4	0.6	-6.5	-19.4	-11.0
Structural, sheet and fabricated metal products		3.5	5.5	4.7	2.6	3.0	-1.1	-8.5	-12.4	-11.9
Transport equipment		-0.6	-1.0	18.1	23.6	17.2	10.9	-1.0	-9.8	-8.4
Machinery and equipment		1.5	3.4	8.5	3.0	2.9	8.2	0.5	-5.3	-4.2
Furniture and other		8.9	11.6	2.7	2.2	-2.5	-11.7	-11.7	-13.1	-11.0
All manufacturing excluding meat and dairy products		3.3	3.5	5.3	5.0	2.3	1.2	-2.7	-7.3	-6.0
All manufacturing		2.9	3.2	5.9	6.5	3.1	2.4	-2.6	-7.4	-5.3

(1) GST is not applicable to salaries and wages.

(2) Percentage changes are calculated on unrounded figures.

Symbol: R revised

Table 20

Additions and Disposals of Fixed Assets
By industry

	Series ref: MANQ.	Quarter								
		2007		2008				2009		
		Sep	Dec	Mar	Jun	Sep	Dec	Mar	Jun	Sep
Manufacturing industry		\$(million) ⁽¹⁾								
Additions to fixed assets										
Meat and dairy products	SNMCZ1F	.. C	.. C	.. C	.. C	.. C	.. C	60	132 R	.. C
Other food	SNMC03F	70	.. C	.. C	68	86	73	73	.. C	147
Beverages, malt and tobacco	SNMCZ2F	75	108	.. C	46	72	89	112	85 R	103
Textiles and apparel	SNMC06F	11	16	18	8	10	11	13	.. C	17
Wood products	SNMC07F	.. C	33	38	39	41	33	.. C	.. C	21
Paper and paper products	SNMC08F	.. C	.. C	.. C	.. C	.. C	26	.. C	.. C	.. C
Printing, publishing and recorded media	SNMC09F	40	24	25	.. C	27	25	15	24	16
Petroleum and industrial chemicals	SNMC10F	34	103	38	72	.. C	122	24 R	.. C	.. C
Rubber, plastic and other chemical products	SNMC11F	35	36	23	45	34	41	26	25	18
Non-metallic mineral products	SNMC12F	30	51	47	54	43	.. C	29	.. C	45
Basic metals	SNMC13F	17	.. C	30	27	33	33	22	40	16
Structural, sheet and fabricated metal products	SNMC14F	29	30	30	37	.. C	.. C	17	29	20
Transport equipment	SNMC15F	25	19	21	21	.. C	.. C	10	33	11
Machinery and equipment	SNMC16F	70	31	.. C	38	52	.. C	28	.. C	26
Furniture and other	SNMC17F	5	7	6	8	7	7	15	4	4
All manufacturing excluding meat and dairy products	SNMCZ3F	.. C	.. C	.. C	.. C	.. C	.. C	488 R	486 R	536
All manufacturing	SNMCZZF	734	680	637	673	1,066	959	548 R	618 R	681
Disposals of fixed assets										
Meat and dairy products	SNMCZ1G	.. C	.. C	.. C	.. C	.. C	.. C	43	48	.. C
Other food	SNMC03G	16	.. C	.. C	12	7	2	6	.. C	4
Beverages, malt and tobacco	SNMCZ2G	4	1	.. C	6	1	1	2	18	3
Textiles and apparel	SNMC06G	1	39	2	7	2	3	1	.. C	2
Wood products	SNMC07G	.. C	2	4	8	11	2	.. C	.. C	1
Paper and paper products	SNMC08G	.. C	.. C	.. C	.. C	.. C	0	.. C	.. C	.. C
Printing, publishing and recorded media	SNMC09G	24	2	5	.. C	7	2	1	8	1
Petroleum and industrial chemicals	SNMC10G	1	1	0	0	.. C	1	0	.. C	.. C
Rubber, plastic and other chemical products	SNMC11G	3	16	34	22	12	7	6	3	2
Non-metallic mineral products	SNMC12G	3	6	1	2	1	.. C	5	.. C	6
Basic metals	SNMC13G	1	.. C	3	8	0	0	2	1	1
Structural, sheet and fabricated metal products	SNMC14G	6	7	1	5	.. C	.. C	3	2	12
Transport equipment	SNMC15G	12	10	2	11	.. C	.. C	5	4	3
Machinery and equipment	SNMC16G	5	3	.. C	7	65	.. C	138	.. C	8
Furniture and other	SNMC17G	1	3	1	10	2	1	1	1	1
All manufacturing excluding meat and dairy products	SNMCZ3G	.. C	.. C	.. C	.. C	.. C	.. C	189	148 R	71
All manufacturing	SNMCZZG	240	194	190	141	219	137	231 R	196 R	103

(1) Values exclude GST.

Symbols: .. not available C confidential R revised