

Economic Survey of Manufacturing: December 2012 quarter

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Key facts

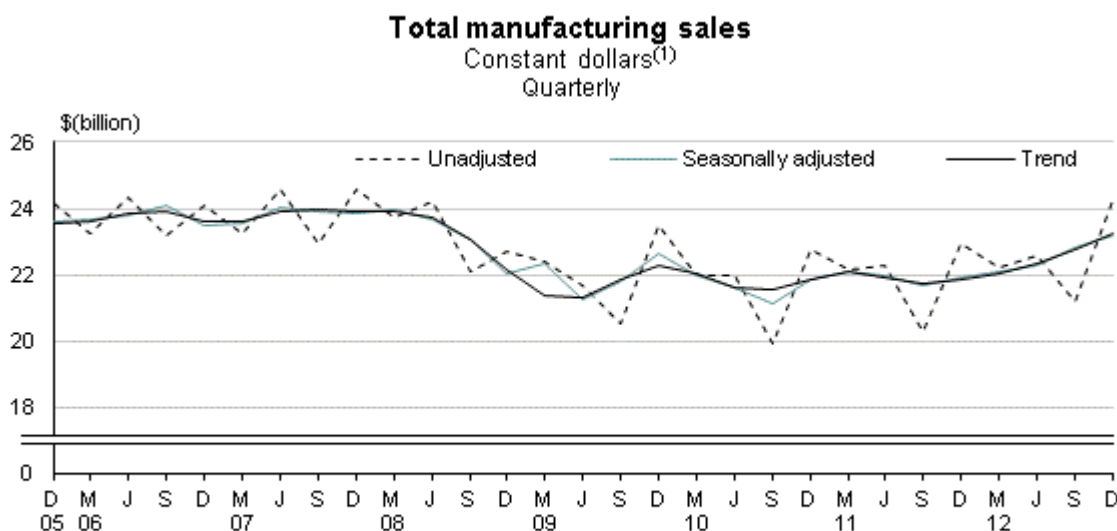
Sales (seasonally adjusted) for the December 2012 quarter compared with the September 2012 quarter.

Volumes

- Total manufacturing **rose** 1.5 percent.
- Meat and dairy product manufacturing **fell** 1.1 percent.
- 7 of the 12 other manufacturing industries **rose**.

Values

- Total manufacturing was unchanged.
- Meat and dairy product manufacturing **fell** 4.4 percent.
- 7 of the 12 other manufacturing industries **rose**.



1. Constant dollar series (volumes) is at September 2010 quarter prices.

Source: Statistics New Zealand

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Commentary

- [Manufacturing sales volume rises](#)
- [Excluding meat and dairy products, manufacturing volumes rise](#)
- [Meat and dairy product manufacturing volumes fall](#)
- [Metal product manufacturing volumes rise](#)
- [Petroleum and coal product manufacturing volumes rise](#)

All references to sales movements are seasonally adjusted unless otherwise stated. Further information about seasonal adjustment is in the [Data quality](#) section.

Manufacturing sales volume rises

The **volume of manufacturing sales** rose 1.5 percent in the December 2012 quarter, following a 2.5 percent rise in the September 2012 quarter. The latest rise was spread over a number of manufacturing industries and occurred despite a 1.1 percent decrease in the sales volume for meat and dairy product manufacturing. The largest increases this quarter were:

- metal product manufacturing, **up** 5.4 percent
- petroleum and coal product manufacturing, **up** 6.4 percent.

The **trend** for the manufacturing sales volume, which gives a longer-term picture of movements, has been rising, up 6.7 percent since the most recent low-point in the September 2011 quarter.

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



1. Constant dollar series (volumes) is at September 2010 quarter prices.

Source: Statistics New Zealand

In current prices, **sales values** were flat (up just \$1 million) in the December 2012 quarter, following a 1.7 percent rise (\$372 million) in the September 2012 quarter. The main value movements for the quarter were:

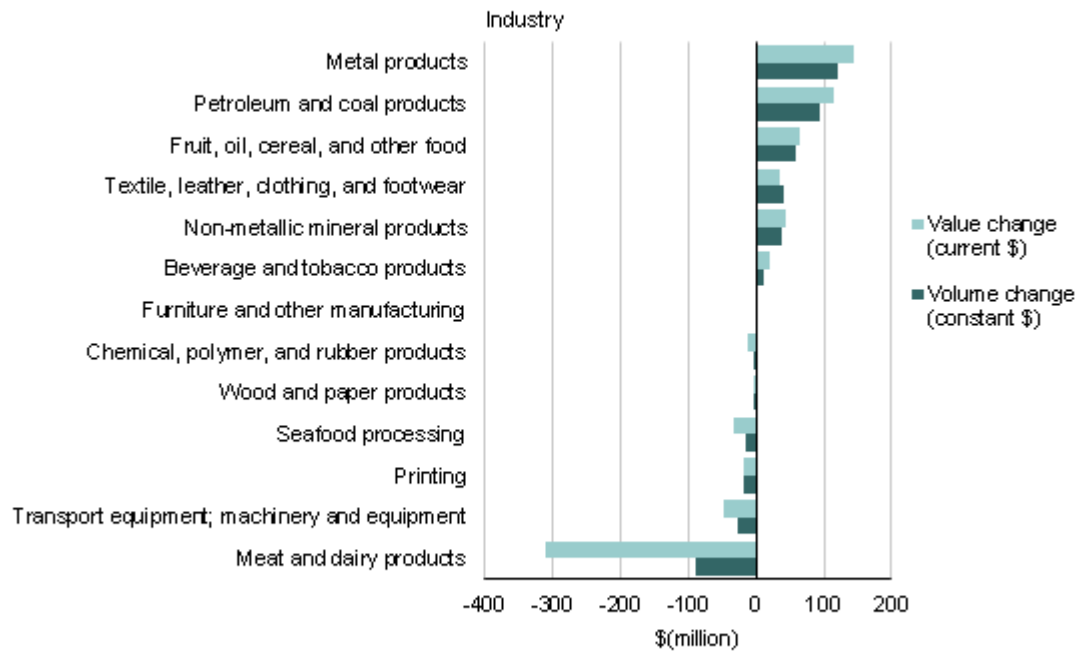
- meat and dairy product manufacturing, **down** 4.4 percent (\$312 million)
- metal product manufacturing, **up** 6.6 percent (\$143 million)

- petroleum and coal product manufacturing, **up** 6.4 percent (\$115 million).

Changes in seasonally adjusted manufacturing sales

Current and constant dollars⁽¹⁾

September 2012 quarter to December 2012 quarter



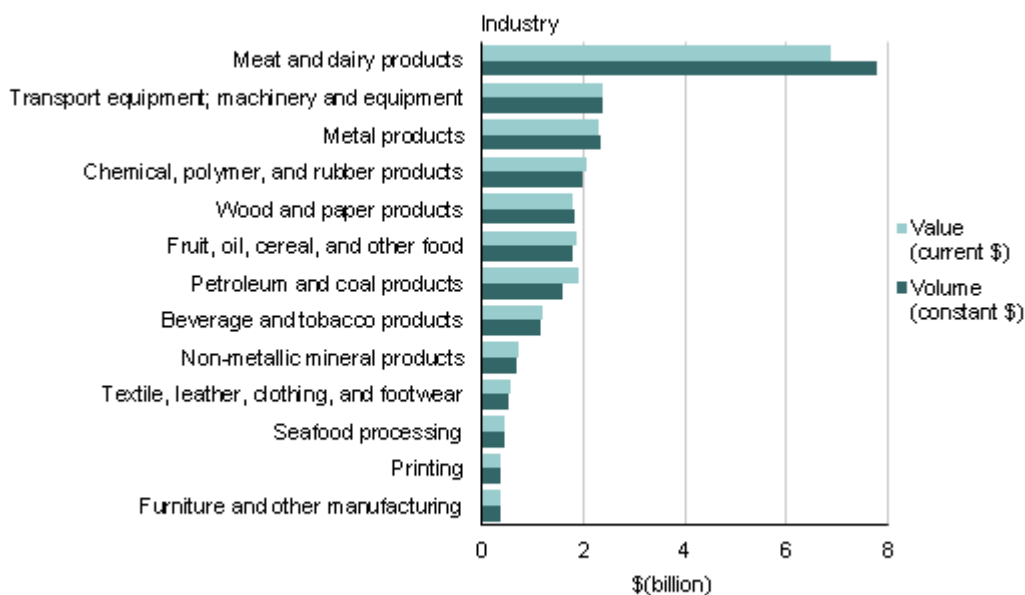
1. Constant dollar series (volumes) is at September 2010 quarter prices.

Source: Statistics New Zealand

Seasonally adjusted manufacturing sales

Current and constant dollars⁽¹⁾

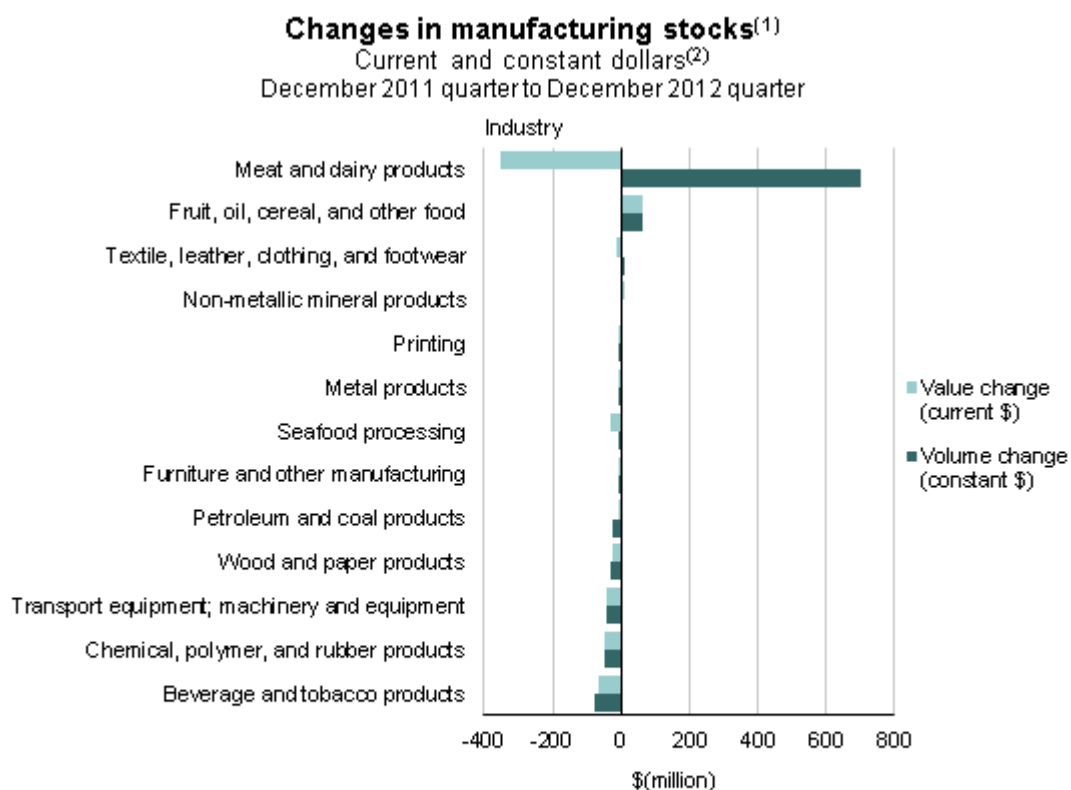
December 2012 quarter



1. Constant dollar series (volumes) is at September 2010 quarter prices.

Source: Statistics New Zealand

The **volume of finished goods stocks** (which is not seasonally adjusted) is 5.2 percent higher than in the December 2011 quarter. This rise was mainly due to an increase in the volume of meat and dairy product manufacturing stocks (up 15 percent).



1. Closing stocks of finished goods.
2. Constant dollar series (volumes) is at September 2010 quarter prices.

Source: Statistics New Zealand

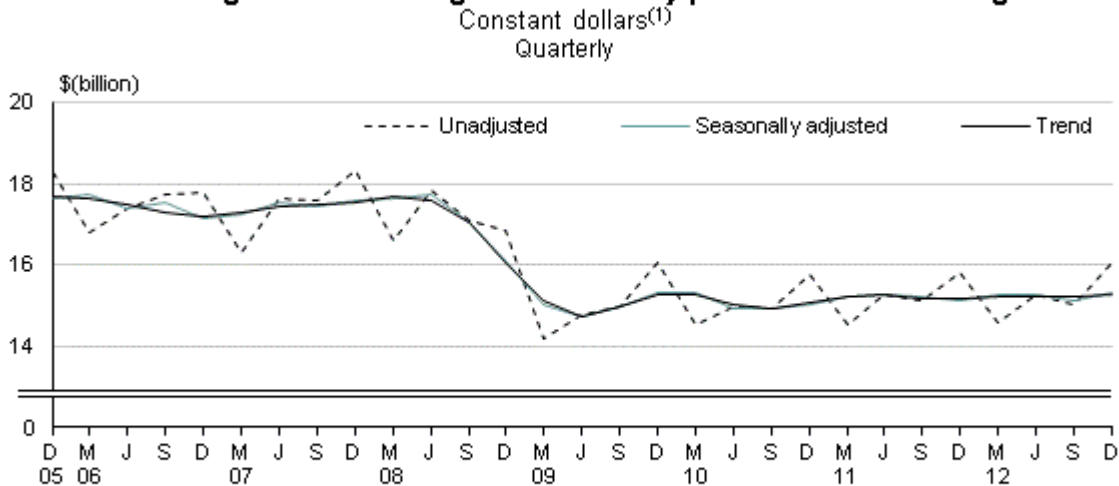
Excluding meat and dairy products, manufacturing volumes rise

The **volume of sales**, excluding meat and dairy product manufacturing, rose 1.3 percent in the December 2012 quarter, following a 0.9 percent fall in the September 2012 quarter. Seven of the 12 industries that make up this group recorded increases. The main movements for this quarter were:

- metal product manufacturing, **up** 5.4 percent
- petroleum and coal product manufacturing, **up** 6.4 percent.

In current prices, **sales values** also rose, up 1.8 percent (\$277 million) in the December 2012 quarter. Seven of the 12 industries rose.

Manufacturing sales excluding meat and dairy product manufacturing sales



1. Constant dollar series (volumes) is at September 2010 quarter prices.

Source: Statistics New Zealand

The **trend** for the sales volume has been relatively flat for the last three years and is well below the levels seen before mid-2008.

The **volume of finished goods stocks** (which is not seasonally adjusted) is 2.9 percent lower than in the December 2011 quarter.

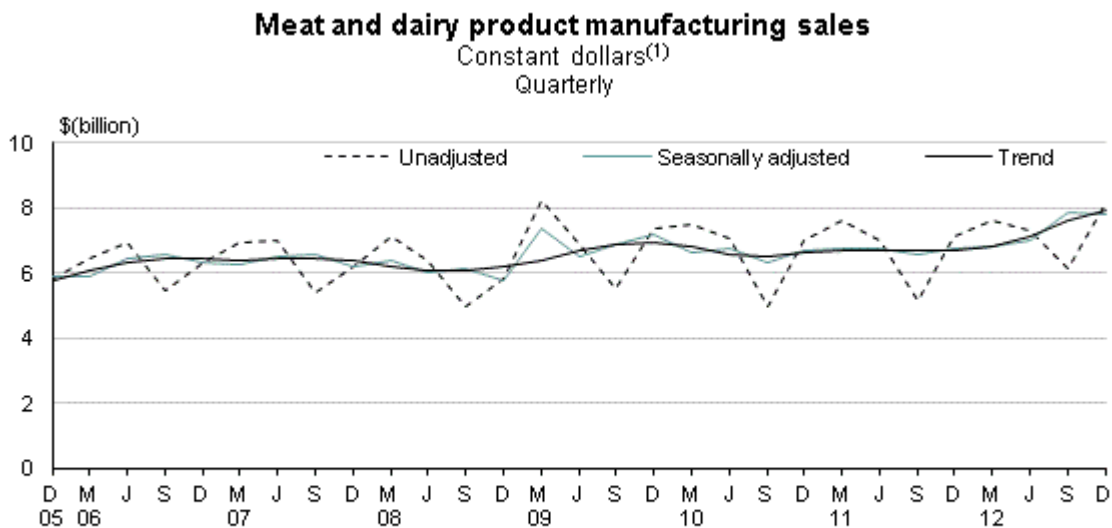
Meat and dairy product manufacturing volumes fall

The **volume of sales** for the meat and dairy product manufacturing industry fell 1.1 percent in the December 2012 quarter, following a large rise of 12 percent in the September 2012 quarter.

The latest fall reflects decreases in the volumes of meat and dairy products exported as reported in the Overseas Trade Indexes (Volumes): December 2012 quarter (provisional). In this quarter dairy exports fell 13 percent and meat exports fell 0.7 percent.

The **value of sales** also decreased, down 4.4 percent (\$312 million), following a rise of 8.4 percent in the previous quarter.

The **trend** indicates that the volume of meat and dairy product manufacturing has risen over the last year after a relatively flat period during 2011.



1. Constant dollar series (volumes) is at September 2010 quarter prices.

Source: Statistics New Zealand

The **volume of finished goods stocks** (which is not seasonally adjusted) is 15 percent higher than in the December 2011 quarter.

Metal product manufacturing volumes rise

The **volume of sales** for the metal product manufacturing industry rose 5.4 percent in the December 2012 quarter, following falls in the previous two quarters.

The **sales value** also rose, up 6.6 percent (\$143 million).

The **trend** for the sales volume is now 12 percent above the series low-point in the June 2009 quarter, but is still well below the levels seen before mid-2008.



1. Constant dollar series (volumes) is at September 2010 quarter prices.

Source: Statistics New Zealand

The **volume of finished goods stocks** (which is not seasonally adjusted) is 0.5 percent lower than in the December 2011 quarter.

Petroleum and coal product manufacturing volumes rise

The **volume of sales** for the petroleum and coal product manufacturing industry rose 6.4 percent in the December 2012 quarter. This increase follows falls in the previous three quarters. The series is not seasonally adjusted as it does not have a stable seasonal pattern. It is not unusual to show large movements from quarter to quarter.

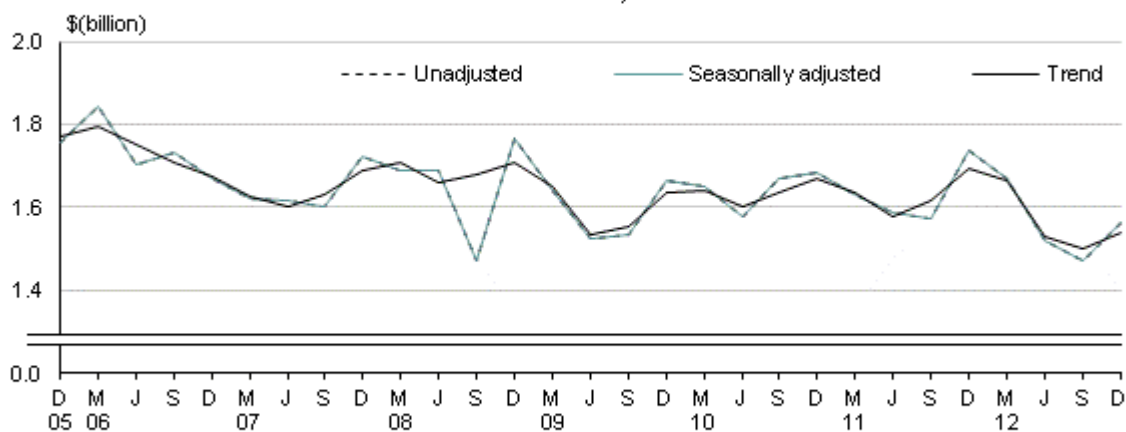
The **sales value** also rose, up 6.4 percent (\$115 million).

The **trend** indicates that the sales volume for the petroleum and coal product manufacturing industry fluctuated over the last three years. Recently this trend dropped to levels similar to those in mid-2009.

Petroleum and coal product manufacturing sales

Constant dollars⁽¹⁾

Quarterly



1. Constant dollar series (volumes) is at September 2010 quarter prices.

Source: Statistics New Zealand

The **volume of finished goods stocks** (which is not seasonally adjusted) is 3.4 percent lower than in the December 2011 quarter.

For more detailed data see the Excel tables in the 'Downloads' box.

Definitions

About the Economic Survey of Manufacturing

The Economic Survey of Manufacturing (ESM) provides short-term economic indicators for the manufacturing sector. The data is also used to compile the manufacturing sector component of the quarterly national accounts. Published values exclude GST.

More definitions

Additions to fixed assets: purchases of fixed assets (including land) plus capital works by own employees. Revaluations are excluded. Collection of data for this variable ceased from the December 2012 quarter.

ANZSIC: Australian and New Zealand Standard Industrial Classification.

Business Frame: a register of all economically significant businesses that operate in New Zealand. The population of the ESM is drawn from the Business Frame.

Disposals of fixed assets: sales of fixed assets (including land) at selling prices. Devaluations are excluded. Collection of data for this variable ceased from the December 2012 quarter.

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

NZSIOC: New Zealand Standard Industry Output Classification. An ANZSIC-based classification that groups industries for publication.

Purchases and operating expenditure: something obtained, especially for a price in money or its equivalent.

The following are included:

- purchases of goods, fuels, and materials (whether for production or resale)
- general expenses (eg advertising, freight, insurance, motor vehicle, rates, rent, repairs, utilities)
- management fees and payments to other businesses or divisions
- payments to welfare and superannuation schemes (eg ACC, KiwiSaver)
- royalties and patent fees.

While these are excluded:

- interest, dividends, donations, and bad debts
- excise duty, fringe benefit tax, and road user charges
- extraordinary items (eg exchange rate losses, losses on sales of fixed assets)
- depreciation.

Rolling mean employment: a 12-month moving average of the monthly employee count.

Salaries and wages: includes gross salaries, wages, bonuses, and redundancy payments to employees. Excludes drawings, salaries, and wages paid to working proprietors and payments to welfare and superannuation schemes (eg ACC, KiwiSaver).

Sales and other operating income: the transfer of ownership of and title to goods or services from one person or entity to another for a price.

The following are included:

- sales of goods (whether manufactured, processed, or traded)
- sales of services (including repair services)
- manufacturing, processing, and management fees
- rental and leasing income
- royalties and patent fees.

While these are excluded:

- interest, dividends, donations, bad debts, and insurance claims
- excise duty, government grants, and subsidies
- extraordinary items (eg exchange rate gains, gains on sales of fixed assets).

Stocks of raw materials: crude or processed material that can be converted by manufacture, processing, or combination into a new product. Stocks include materials, fuels, and livestock.

Stocks of finished goods: goods ready for sale without further transformation. Stocks includes work in progress.

Volume series: are value series that are adjusted (divided by price indexes) to remove the effect of price changes. They provide a measure of quantity change and are currently expressed in September 2010 quarter dollars. The price indexes used are from the producers price index and are available on Infoshare.

Related links

Upcoming releases

The *Economic Survey of Manufacturing: March 2013 quarter* will be released on 10 June 2013.

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Past releases

[Economic Survey of Manufacturing – information releases](#) has links to past releases.

Related information

[Producers price index](#) outputs index measures changes in prices received by producers.

Data quality

Period-specific information

This section contains data information that has changed since the last release.

- [Sample errors for December 2012 quarter](#)
- [Imputation for December 2012 quarter](#)
- [Response rate](#)

General information

This section contains information that does not change between releases.

- [Measurement errors](#)
- [Non-response imputation](#)
- [Seasonally adjusted and trend series](#)
- [Standardising dairy industry quarters](#)
- [Use in national accounts](#)
- [More information](#)

Period-specific information

Sample errors for December 2012 quarter

Sample errors for sales in the December 2012 quarter		
Industry	Sample error for sales value	Sample error for change in sales
	Percent	
Meat and dairy product manufacturing	0.0	0.0
Seafood processing	0.0	0.0
Fruit, oil, cereal, and other food manufacturing	4.3	0.8
Beverage and tobacco product manufacturing	0.0	0.0
Textile, leather, clothing, and footwear manufacturing	6.0	3.0
Wood and paper product manufacturing	2.0	0.9
Printing	9.2	5.6
Petroleum and coal product manufacturing	0.0	0.0
Chemical, polymer, and rubber product manufacturing	2.1	1.3
Non-metallic mineral product manufacturing	4.7	1.9
Metal manufacturing	7.5	2.4
Transport equipment; machinery and equipment manufacturing	4.4	5.7
Furniture and other manufacturing	6.5	5.1
Total manufacturing	1.0	0.7

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 for December 2012 quarter

Imputed values as a percentage of sales in the December 2012 quarter		
Industry	Non-response	Tax modelled
	Percentage of sales	
Meat and dairy product manufacturing	0.5	4.9
Seafood processing	3.9	11.4
Fruit, oil, cereal, and other food manufacturing	5.1	11.4
Beverage and tobacco product manufacturing	0.1	14.7
Textile, leather, clothing, and footwear manufacturing	19.4	14.4
Wood and paper product manufacturing	5.7	11.6
Printing	15.1	16.2
Petroleum and coal product manufacturing	0.0	0.9
Chemical, polymer, and rubber product manufacturing	9.0	7.7
Non-metallic mineral product manufacturing	5.6	13.1
Metal manufacturing	9.0	14.3
Transport equipment; machinery and equipment manufacturing	12.2	14.5
Furniture and other manufacturing	14.8	14.8
Total manufacturing	5.0	9.3

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 (ESM) has a target response rate of 85 percent.

The response rate achieved for the December 2012 quarter was 95 percent.

General information

Measurement errors

The ESM applies imputation methods for estimating values for small firms and non-response. Like all statistical surveys, it is subject to measurement errors, including sample errors and non-sample errors. These measurement errors affect the accuracy of the published statistics.

Sample errors

The ESM is primarily a postal survey and is 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, at the 95 percent confidence interval limit, are calculated each quarter for absolute values and for changes in value from the previous quarter.

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 for similar businesses.

Mean imputation involves estimating a value for a unit by using the average value for a set of similar businesses.

Seasonally adjusted and trend series

For any series, the survey estimates can be broken down into three components: trend, seasonal, and irregular. While seasonally adjusted series have the seasonal component removed, trend series have both the seasonal and irregular components removed. This reveals turning points and the underlying direction of quarterly movement.

Seasonally adjusted and trend values are re-estimated quarterly when each new quarter's data becomes available. Figures are therefore revised, with the largest changes normally occurring in the latest quarters. Estimates are produced by the X-12-ARIMA seasonal adjustment program, developed at the U.S. Census Bureau.

See [seasonal adjustment within Statistics NZ](#) for more information.

Seasonally adjusted series

Seasonal adjustment removes the estimated impact of regular seasonal events, such as annual cycles in agricultural production, pre-Christmas shopping, and summer holidays, from statistical series. This makes figures for adjacent periods more comparable.

For the ESM, removing the purchasing monopoly in the dairy industry in mid-2002 caused an abrupt change to seasonal variation in the meat and dairy industry. In response, the calculation method for total sales was changed from direct to indirect (whereby component industries are individually adjusted before being summed). Direct and indirect adjustment methods are both used, according to appropriateness.

Components are seasonally adjusted using the following methods:

Component	Method
Sales volumes	
Total manufacturing	Indirect
Excluding meat and dairy product manufacturing	Direct
Meat and dairy product manufacturing	Direct
Sales values	
Total manufacturing	Direct
Excluding meat and dairy product manufacturing	Direct
Meat and dairy product manufacturing	Direct

Trend series

Trend estimation removes the estimated impact of regular seasonal events and irregular short-term variation from statistical series. 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.

Standardising dairy industry quarters

Before December 2008, data for most dairy values were calculated on a non-standard quarter. This meant that the June quarter, for example, included dairy values for the months of March, April, and May, while the standard June quarter includes April, May, and June. From the June 2011 quarter onwards, Statistics NZ publishes standard quarter data, revising previously published data back to December 2008.

Use in national accounts

A key use of the ESM is in the quarterly gross domestic product (GDP) for calculating manufacturing 'value added' (value of output after the cost of input materials and services has been deducted). GDP base-year manufacturing value added is moved forward using volume indexes that are calculated from ESM sales and finished good stock changes (deflated by sub-indexes of the [producers price index](#)).

ESM volumes are supplemented with quantity production data for the following industries:

- meat and dairy product manufacturing
- petroleum and industrial chemical manufacturing
- basic metal manufacturing.

The ESM is also used in the expenditure measure of GDP for compiling stock change values at current and constant prices.

More information

See [Economic Survey of Manufacturing](#) for more information.

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Revisions

These revisions were the result of updated information from respondents.

Users of the manufacturing series should note these revisions also affected the corresponding volume series.

Revisions to September 2012 quarter – unadjusted current price series						
Industry	Variable	Series ref.	Published 10 Dec 2012		Published 8 Mar 2013	
		MFGQ.	\$(million)	% change from the same quarter of the previous year	\$(million)	% change from the same quarter of the previous year
Fruit, oil, cereal, and other food	Sales	SC1CA	1762	-0.9	1806	1.5
Fruit, oil, cereal, and other food	Purchases	SC2CA	1281	-5.8	1331	-2.1
Fruit, oil, cereal, and other food	Closing stocks of raw materials	SC4CA	272	10.5	268	8.8
Fruit, oil, cereal, and other food	Closing stocks of finished goods	SC5CA	576	-0.1	594	3.0
Textile, leather, clothing, and footwear	Closing stocks of raw materials	SE4CA	157	-7.7	155	-8.9
Textile, leather, clothing, and footwear	Closing stocks of finished goods	SE5CA	241	-10.6	249	-7.8
Metal products	Closing stocks of raw materials	SK4CA	412	-0.6	395	-4.7
Metal products	Closing stocks of finished goods	SK5CA	512	7.0	463	-3.2
Revisions to June 2012 quarter – unadjusted current price series						
Industry	Variable	Series ref.	Published 10 Dec 2012		Published 8 Mar 2013	
		MFGQ.	\$(million)	% change from the same quarter of the previous	\$(million)	% change from the same quarter of the previous

				year		year
Metal product	Closing stocks of raw materials	SK4CA	417	0.4	383	-7.9
Metal product	Closing stocks of finished goods	SK5CA	528	8.5	476	-2.2
Revisions to March 2012 quarter – unadjusted current price series						
Industry	Variable	Series ref.	Published 10 Dec 2012		Published 8 Mar 2013	
		MFGQ.	\$(million)	% change from the same quarter of the previous year	\$(million)	% change from the same quarter of the previous year
Metal product	Closing stocks of raw materials	SK4CA	416	3.2	374	-7.2
Metal product	Closing stocks of finished goods	SK5CA	489	-5.8	437	-15.7
Revisions to December 2011 quarter – unadjusted current price series						
Industry	Variable	Series ref.	Published 10 Dec 2012		Published 8 Mar 2013	
		MFGQ.	\$(million)	% change from the same quarter of the previous year	\$(million)	% change from the same quarter of the previous year
Metal product	Closing stocks of raw materials	SK4CA	467	16.3	427	-6.1
Metal product	Closing stocks of finished goods	SK5CA	528	-0.8	474	-11.0

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Tables

The following tables are available in Excel format from the 'Downloads' box. If you have problems viewing the files, see [opening files and PDFs](#).

1. All manufacturing
2. All manufacturing excluding meat and dairy
3. Meat and dairy product manufacturing
4. Seafood processing
5. Fruit, oil, cereal, and other food manufacturing
6. Beverage and tobacco product manufacturing
7. Textile, leather, clothing, and footwear manufacturing
8. Wood and paper product manufacturing
9. Printing
10. Petroleum and coal product manufacturing
11. Chemical, polymer, and rubber product manufacturing
12. Non-metallic mineral product manufacturing
13. Metal product manufacturing
14. Transport equipment; machinery and equipment manufacturing
15. Furniture and other manufacturing
16. Purchases and operating expenditure
17. Salaries and wages

Access more data on Infoshare

Use [Infoshare](#) to access time-series data specific to your needs. For this release, select the following category from the Infoshare homepage:

Subject category: **Industry Sectors**
Group: Manufacturing Survey (ANZSIC06) - **MFG**

Table 1

All manufacturing
ANZSIC Division C

		Current values					Volumes (values at September 2010 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: MFGQ.	SZ1CA	SZ1CS	SZ1CT	SZ4CA	SZ5CA	SZ1KA	SZ1KS	SZ1KT	SZ5KA	
\$(million)⁽⁶⁾										
Quarter										
2007	Dec	22,179	21,656	21,651	3,482	9,225	24,562	23,870	23,908	10,391
2008	Mar	22,233	22,364	22,290	3,709	10,056	23,712	23,966	23,919	10,839
	Jun	23,177	22,611	22,719	4,202	9,681	24,201	23,691	23,726	10,629
	Sep	21,891	23,061	23,027	4,195	9,110	22,075	23,055	23,090	9,672
	Dec	23,589	22,905	22,814	3,988	10,109	22,712	22,041	22,160	9,932
2009	Mar	22,552	22,540	21,814	3,829	11,678	22,426	22,363	21,395	11,756
	Jun	20,350	19,859	20,655	4,024	8,753	21,659	21,231	21,290	10,251
	Sep	18,798	20,032	20,087	3,591	8,033	20,517	21,789	21,835	9,295
	Dec	20,938	20,233	20,218	3,393	8,785	23,474	22,615	22,261	10,482
2010	Mar	20,801	20,695	20,679	3,367	9,822	22,008	21,963	22,064	10,797
	Jun	21,619	21,100	21,066	3,510	8,531	22,007	21,610	21,593	8,678
	Sep	19,907	21,355	21,389	3,556	8,230	19,907	21,146	21,550	8,230
	Dec	22,634	21,825	21,838	3,600	9,760	22,762	21,881	21,860	9,872
2011	Mar	22,568	22,405	22,402	3,785	10,632	22,170	22,081	22,103	10,556
	Jun	23,392	22,819	22,763	3,959	9,054	22,288	21,960	21,919	8,611
	Sep	21,168	22,782	22,927	4,131	9,339	20,308	21,650	21,757	8,968
	Dec	23,877	23,001	22,899	3,901 R	10,834 R	22,918	21,929	21,864	10,422 R
2012	Mar	22,824	22,639	22,667	4,051 R	11,113 R	22,227	22,121	22,070	10,945 R
	Jun	23,029	22,474	22,565	3,686 R	9,804 R	22,588	22,274	22,343	9,674 R
	Sep	21,222 R	22,845	22,744	3,812 R	9,412 R	21,193 R	22,841	22,776	9,516 R
	Dec	23,717	22,846	22,914	3,626	10,316	24,250	23,178	23,220	10,962
Percentage change from the previous quarter⁽⁷⁾										
Quarter										
2010	Dec	13.7	2.2	2.1	1.2	18.6	14.3	3.5	1.4	20.0
2011	Mar	-0.3	2.7	2.6	5.2	8.9	-2.6	0.9	1.1	6.9
	Jun	3.7	1.8	1.6	4.6	-14.8	0.5	-0.6	-0.8	-18.4
	Sep	-9.5	-0.2	0.7	4.3	3.1	-8.9	-1.4	-0.7	4.1
	Dec	12.8	1.0	-0.1	-5.6 R	16.0 R	12.8	1.3	0.5	16.2 R
2012	Mar	-4.4	-1.6	-1.0	3.9 R	2.6 R	-3.0	0.9	0.9	5.0 R
	Jun	0.9	-0.7	-0.4	-9.0 R	-11.8 R	1.6	0.7	1.2	-11.6 R
	Sep	-7.8 R	1.7	0.8	3.4 R	-4.0 R	-6.2 R	2.5	1.9	-1.6 R
	Dec	11.8	0.0	0.7	-4.9	9.6	14.4	1.5	1.9	15.2
Percentage change from the same quarter of the previous year⁽⁷⁾										
Quarter										
2011	Dec	5.5	5.4	4.9	8.3 R	11.0 R	0.7	0.2	0.0	5.6 R
2012	Mar	1.1	1.0	1.2	7.0 R	4.5 R	0.3	0.2	-0.2	3.7 R
	Jun	-1.6	-1.5	-0.9	-6.9 R	8.3 R	1.3	1.4	1.9	12.3 R
	Sep	0.3 R	0.3	-0.8	-7.7 R	0.8 R	4.4 R	5.5	4.7	6.1 R
	Dec	-0.7	-0.7	0.1	-7.0	-4.8	5.8	5.7	6.2	5.2

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 (goods and services tax).

7. Percentage changes are calculated on unrounded figures.

Note: ANZSIC Australian and New Zealand Standard Industrial Classification (2006)

Symbol: R revised

Source: Statistics New Zealand

Table 2

All manufacturing excluding meat and dairy
ANZSIC Division C (excluding ANZSIC C111 and C113)

Series ref: MFGQ.	Current values					Volumes (values at September 2010 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⁾		
	SY1CA	SY1CS	SY1CT	SY4CA	SY5CA	SY1KA	SY1KS	SY1KT	SY5KA	
\$(million)⁽⁶⁾										
Quarter										
2007	Dec	16,464	15,788	15,706	3,277	5,990	18,350	17,589	17,545	6,891
2008	Mar	15,124	16,039	16,149	3,474	6,219	16,611	17,611	17,691	7,098
	Jun	16,697	16,629	16,547	3,995	6,458	17,826	17,714	17,609	7,497
	Sep	16,704	16,578	16,596	3,947	6,807	17,091	17,024	17,058	7,452
	Dec	16,752	16,032	15,937	3,708	6,418	16,862	16,097	16,039	6,809
2009	Mar	14,082	14,898	14,988	3,560	6,521	14,186	15,017	15,112	6,747
	Jun	14,437	14,381	14,403	3,742	6,154	14,785	14,725	14,747	7,153
	Sep	14,516	14,464	14,482	3,304	6,045	14,995	14,984	14,980	6,570
	Dec	15,525	14,839	14,807	3,125	5,767	16,072	15,323	15,291	6,207
2010	Mar	14,187	14,961	14,896	3,061	5,694	14,541	15,307	15,253	6,049
	Jun	14,776	14,725	14,815	3,228	5,942	14,955	14,936	15,010	6,004
	Sep	14,911	14,910	14,851	3,279	5,658	14,911	14,940	14,919	5,658
	Dec	15,773	15,071	15,142	3,283	5,479	15,762	15,038	15,058	5,465
2011	Mar	14,810	15,564	15,517	3,408	5,509	14,544	15,233	15,207	5,390
	Jun	15,828	15,779	15,760	3,620	5,722	15,271	15,259	15,265	5,465
	Sep	15,712	15,745	15,754	3,768	6,012	15,138	15,210	15,188	5,740
	Dec	16,467	15,742	15,783	3,492 R	5,900 R	15,816	15,103	15,153	5,619 R
2012	Mar	15,187	15,923	15,885	3,654 R	5,988 R	14,595	15,245	15,220	5,693 R
	Jun	15,926	15,880	15,846	3,309 R	5,919 R	15,291	15,267	15,228	5,630 R
	Sep	15,666 R	15,715	15,816	3,413 R	6,190 R	15,033 R	15,134	15,214	5,855 R
	Dec	16,721	15,991	15,910	3,198	5,733	16,062	15,336	15,275	5,458
Percentage change from the previous quarter⁽⁷⁾										
Quarter										
2010	Dec	5.8	1.1	2.0	0.1	-3.2	5.7	0.7	0.9	-3.4
2011	Mar	-6.1	3.3	2.5	3.8	0.6	-7.7	1.3	1.0	-1.4
	Jun	6.9	1.4	1.6	6.2	3.9	5.0	0.2	0.4	1.4
	Sep	-0.7	-0.2	0.0	4.1	5.1	-0.9	-0.3	-0.5	5.0
	Dec	4.8	0.0	0.2	-7.3 R	-1.9 R	4.5	-0.7	-0.2	-2.1 R
2012	Mar	-7.8	1.1	0.6	4.6 R	1.5 R	-7.7	0.9	0.4	1.3 R
	Jun	4.9	-0.3	-0.2	-9.4 R	-1.2 R	4.8	0.1	0.1	-1.1 R
	Sep	-1.6 R	-1.0	-0.2	3.1 R	4.6 R	-1.7 R	-0.9	-0.1	4.0 R
	Dec	6.7	1.8	0.6	-6.3	-7.4	6.8	1.3	0.4	-6.8
Percentage change from the same quarter of the previous year⁽⁷⁾										
Quarter										
2011	Dec	4.4	4.5	4.2	6.4 R	7.7 R	0.3	0.4	0.6	2.8 R
2012	Mar	2.5	2.3	2.4	7.2 R	8.7 R	0.4	0.1	0.1	5.6 R
	Jun	0.6	0.6	0.5	-8.6 R	3.4 R	0.1	0.1	-0.2	3.0 R
	Sep	-0.3 R	-0.2	0.4	-9.4 R	2.9 R	-0.7 R	-0.5	0.2	2.0 R
	Dec	1.5	1.6	0.8	-8.4	-2.8	1.6	1.5	0.8	-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 (goods and services tax).
7. Percentage changes are calculated on unrounded figures.

Note: ANZSIC Australian and New Zealand Standard Industrial Classification (2006)

Symbol: R revised

Source: Statistics New Zealand

Table 3

Meat and dairy product manufacturing
ANZSIC C111 and C113

Series ref: MFGQ.	Current values					Volumes (values at September 2010 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⁾		
	SA1CA	SA1CS	SA1CT	SA4CA	SA5CA	SA1KA	SA1KS	SA1KT	SA5KA	
\$(million)⁽⁶⁾										
Quarter										
2007	Dec	5,715	5,830	5,911	205	3,236	6,213	6,196	6,360	3,499
2008	Mar	7,109	6,289	6,117	235	3,837	7,102	6,374	6,216	3,741
	Jun	6,480	6,013	6,181	208	3,222	6,375	6,000	6,109	3,132
	Sep	5,187	6,481	6,460	249	2,303	4,984	6,153	6,107	2,219
	Dec	6,838	6,889	6,851	280	3,691	5,849	5,755	6,205	3,123
2009	Mar	8,470	7,451	6,682	269	5,157	8,240	7,356	6,401	5,009
	Jun	5,913	5,505	6,041	282	2,600	6,874	6,522	6,671	3,099
	Sep	4,282	5,439	5,475	287	1,989	5,522	6,906	6,897	2,725
	Dec	5,412	5,394	5,407	269	3,018	7,402	7,195	6,969	4,275
2010	Mar	6,614	5,799	5,835	306	4,128	7,467	6,631	6,829	4,747
	Jun	6,843	6,389	6,268	282	2,588	7,052	6,745	6,600	2,674
	Sep	4,996	6,416	6,530	277	2,571	4,996	6,317	6,530	2,571
	Dec	6,861	6,776	6,688	317	4,281	7,000	6,720	6,633	4,407
2011	Mar	7,758	6,814	6,890	378	5,124	7,626	6,771	6,711	5,167
	Jun	7,564	7,065	6,987	339	3,332	7,017	6,740	6,724	3,146
	Sep	5,456	7,033	7,155	363	3,327	5,170	6,577	6,671	3,228
	Dec	7,410	7,285	7,112	408	4,934	7,102	6,768	6,666	4,803
2012	Mar	7,637	6,726	6,804	396	5,125	7,632	6,790	6,843	5,252
	Jun	7,102	6,623	6,749	377	3,885	7,297	7,007	7,156	4,044
	Sep	5,556	7,176	6,962	399	3,223	6,161	7,866	7,633	3,661
	Dec	6,996	6,864	7,023	427	4,584	8,188	7,776	7,950	5,504
Percentage change from the previous quarter⁽⁷⁾										
Quarter										
2010	Dec	37.3	5.6	2.4	14.4	66.5	40.1	6.4	1.6	71.4
2011	Mar	13.1	0.6	3.0	19.2	19.7	8.9	0.8	1.2	17.2
	Jun	-2.5	3.7	1.4	-10.3	-35.0	-8.0	-0.5	0.2	-39.1
	Sep	-27.9	-0.5	2.4	7.1	-0.2	-26.3	-2.4	-0.8	2.6
	Dec	35.8	3.6	-0.6	12.5	48.3	37.4	2.9	-0.1	48.8
2012	Mar	3.1	-7.7	-4.3	-2.8	3.9	7.5	0.3	2.7	9.3
	Jun	-7.0	-1.5	-0.8	-5.0	-24.2	-4.4	3.2	4.6	-23.0
	Sep	-21.8	8.4	3.1	5.9	-17.0	-15.6	12.3	6.7	-9.5
	Dec	25.9	-4.4	0.9	7.1	42.2	32.9	-1.1	4.1	50.3
Percentage change from the same quarter of the previous year⁽⁷⁾										
Quarter										
2011	Dec	8.0	7.5	6.3	28.7	15.2	1.5	0.7	0.5	9.0
2012	Mar	-1.6	-1.3	-1.2	4.9	0.0	0.1	0.3	2.0	1.6
	Jun	-6.1	-6.3	-3.4	11.2	16.6	4.0	4.0	6.4	28.5
	Sep	1.8	2.0	-2.7	10.0	-3.1	19.2	19.6	14.4	13.4
	Dec	-5.6	-5.8	-1.2	4.7	-7.1	15.3	14.9	19.3	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 (goods and services tax).
7. Percentage changes are calculated on unrounded figures.

Note: ANZSIC Australian and New Zealand Standard Industrial Classification (2006)

Source: Statistics New Zealand

Table 4

Seafood processing
ANZSIC C112

Series ref: MFGQ.	Current values					Volumes (values at September 2010 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⁾		
SB1CA	SB1CS	SB1CT	SB4CA	SB5CA	SB1KA	SB1KS	SB1KT	SB5KA		
\$(million)⁽⁶⁾										
Quarter										
2007	Dec	490	473	474	101	338	666	643	647	459
2008	Mar	476	499	492	105	352	630	668	663	465
	Jun	497	494	502	104	311	658	653	656	412
	Sep	512	514	507	112	324	629	625	623	397
	Dec	522	501	501	108	338	599	575	571	387
2009	Mar	462	484	487	97	384	464	492	530	386
	Jun	496	491	491	105	390	539	535	534	424
	Sep	500	505	506	106	356	564	564	564	401
	Dec	540	517	501	109	336	644	614	561	400
2010	Mar	453	475	483	96	362	487	514	521	389
	Jun	480	474	470	82	380	483	479	480	382
	Sep	459	467	470	118	332	459	462	463	332
	Dec	495	473	471	99	268	479	455	456	259
2011	Mar	449	470	472	93	257	424	446	443	243
	Jun	471	463	456	105	228	416	413	410	201
	Sep	422	430	439	89	291	370	374	380	256
	Dec	470	450	450	91	298	404	384	385	256
2012	Mar	494	516	475	80	276	431	453	412	241
	Jun	491	482	488	74	288	435	432	434	255
	Sep	480	490	481	88	294	436	441	436	267
	Dec	478	457	465	74	267	446	425	430	249
Percentage change from the previous quarter⁽⁷⁾										
Quarter										
2010	Dec	7.7	1.3	0.2	-16.0	-19.4	4.2	-1.5	-1.4	-22.0
2011	Mar	-9.2	-0.6	0.2	-6.5	-3.9	-11.5	-2.1	-2.8	-6.4
	Jun	4.8	-1.4	-3.4	12.6	-11.5	-1.9	-7.4	-7.4	-17.2
	Sep	-10.4	-7.1	-3.6	-15.0	28.1	-10.9	-9.4	-7.3	27.3
	Dec	11.5	4.7	2.4	2.0	2.3	9.1	2.7	1.2	0.1
2012	Mar	5.0	14.6	5.6	-11.5	-7.5	6.7	17.8	7.1	-5.9
	Jun	-0.5	-6.6	2.8	-8.1	4.4	1.0	-4.5	5.3	5.9
	Sep	-2.4	1.7	-1.4	19.9	2.1	0.1	2.2	0.5	4.8
	Dec	-0.4	-6.7	-3.3	-16.6	-9.4	2.4	-3.8	-1.5	-6.8
Percentage change from the same quarter of the previous year⁽⁷⁾										
Quarter										
2011	Dec	-4.9	-4.8	-4.5	-8.8	11.4	-15.6	-15.6	-15.6	-1.1
2012	Mar	9.9	9.8	0.6	-13.6	7.3	1.7	1.5	-7.0	-0.7
	Jun	4.4	4.1	7.1	-29.4	26.6	4.7	4.6	5.8	27.0
	Sep	13.7	14.0	9.5	-0.4	0.9	17.7	18.0	14.6	4.5
	Dec	1.6	1.6	3.4	-18.6	-10.6	10.5	10.5	11.6	-2.8

- Volume series use price indexes to remove the effect of price changes and are recalculated each quarter.
- Seasonally adjusted values exclude estimated seasonal fluctuations and are recalculated each quarter.
- Trend values exclude estimated seasonal fluctuations and short-term irregular movements and are recalculated each quarter.
- Materials for use in production.
- Finished goods, trading goods, and work in progress.
- Values exclude GST (goods and services tax).
- Percentage changes are calculated on unrounded figures.

Note: ANZSIC Australian and New Zealand Standard Industrial Classification (2006)

Source: Statistics New Zealand

Table 5

Fruit, oil, cereal, and other food manufacturing
ANZSIC C114–C119

Series ref: MFGQ.	Current values					Volumes (values at September 2010 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⁾		
SC1CA	SC1CS	SC1CT	SC4CA	SC5CA	SC1KA	SC1KS	SC1KT	SC5KA		
\$(million)⁽⁶⁾										
Quarter										
2007	Dec	1,789	1,731	1,731	259	527	2,140	2,057	2,060	630
2008	Mar	1,737	1,819	1,801	249	548	2,013	2,124	2,105	636
	Jun	1,813	1,808	1,829	237	486	2,073	2,066	2,084	556
	Sep	1,868	1,855	1,845	250	506	2,056	2,041	2,034	557
	Dec	1,906	1,837	1,826	251	527	2,045	1,960	1,947	566
2009	Mar	1,685	1,767	1,789	282	600	1,717	1,814	1,866	611
	Jun	1,807	1,805	1,793	277	609	1,875	1,871	1,859	632
	Sep	1,825	1,814	1,821	279	557	1,904	1,891	1,899	581
	Dec	1,971	1,893	1,812	275	525	2,086	1,995	1,883	555
2010	Mar	1,654	1,737	1,776	233	565	1,705	1,802	1,817	582
	Jun	1,735	1,735	1,725	292	592	1,747	1,745	1,737	596
	Sep	1,694	1,683	1,693	318	545	1,694	1,682	1,689	545
	Dec	1,763	1,693	1,689	218	459	1,755	1,678	1,679	457
2011	Mar	1,629	1,711	1,711	242	535	1,609	1,700	1,696	528
	Jun	1,737	1,737	1,741	276	538	1,708	1,707	1,711	529
	Sep	1,779	1,767	1,753	246	577	1,723	1,712	1,700	559
	Dec	1,810	1,738	1,758	240	516	1,754	1,677	1,699	500
2012	Mar	1,698	1,783	1,763	250	624	1,645	1,737	1,709	605
	Jun	1,760	1,760	1,771	273	646	1,709	1,707	1,720	627
	Sep	1,806 R	1,795	1,799	268 R	594 R	1,752 R	1,740	1,744	576 R
	Dec	1,936	1,859	1,854	245	581	1,880	1,799	1,794	564
Percentage change from the previous quarter⁽⁷⁾										
Quarter										
2010	Dec	4.1	0.6	-0.3	-31.5	-15.9	3.6	-0.3	-0.6	-16.3
2011	Mar	-7.6	1.1	1.3	10.9	16.6	-8.3	1.3	1.0	15.7
	Jun	6.6	1.5	1.8	14.2	0.6	6.1	0.4	0.9	0.1
	Sep	2.4	1.8	0.7	-10.9	7.3	0.9	0.3	-0.6	5.7
	Dec	1.8	-1.7	0.3	-2.7	-10.6	1.8	-2.0	0.0	-10.6
2012	Mar	-6.2	2.6	0.3	4.5	21.0	-6.2	3.5	0.6	21.0
	Jun	3.7	-1.3	0.5	9.0	3.5	3.9	-1.7	0.6	3.7
	Sep	2.6 R	2.0	1.6	-1.8 R	-8.0 R	2.5 R	1.9	1.4	-8.1 R
	Dec	7.2	3.6	3.1	-8.6	-2.3	7.3	3.4	2.9	-2.2
Percentage change from the same quarter of the previous year⁽⁷⁾										
Quarter										
2011	Dec	2.7	2.7	4.1	9.8	12.5	-0.1	0.0	1.2	9.5
2012	Mar	4.2	4.3	3.1	3.5	16.7	2.2	2.2	0.8	14.5
	Jun	1.4	1.3	1.7	-1.3	20.1	0.1	0.0	0.5	18.6
	Sep	1.5 R	1.6	2.6	8.8 R	3.0 R	1.6 R	1.7	2.6	3.1 R
	Dec	6.9	7.0	5.4	2.2	12.6	7.2	7.3	5.6	12.8

- Volume series use price indexes to remove the effect of price changes and are recalculated each quarter.
- Seasonally adjusted values exclude estimated seasonal fluctuations and are recalculated each quarter.
- Trend values exclude estimated seasonal fluctuations and short-term irregular movements and are recalculated each quarter.
- Materials for use in production.
- Finished goods, trading goods, and work in progress.
- Values exclude GST (goods and services tax).
- Percentage changes are calculated on unrounded figures.

Note: ANZSIC Australian and New Zealand Standard Industrial Classification (2006)

Symbol: R revised

Source: Statistics New Zealand

Table 6

Beverage and tobacco product manufacturing
ANZSIC C12

Series ref: MFGQ.	Current values					Volumes (values at September 2010 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⁾		
SD1CA	SD1CS	SD1CT	SD4CA	SD5CA	SD1KA	SD1KS	SD1KT	SD5KA		
\$(million)⁽⁶⁾										
Quarter										
2007	Dec	1,079	905	908	204	588	1,297	1,091	1,099	705
2008	Mar	872	924	922	219	571	1,044	1,104	1,101	683
	Jun	886	931	932	256	793	1,060	1,104	1,096	947
	Sep	855	938	937	277	906	978	1,081	1,085	1,035
	Dec	1,129	946	950	235	813	1,272	1,070	1,081	913
2009	Mar	919	973	971	225	879	1,032	1,089	1,081	986
	Jun	940	988	982	293	921	1,046	1,089	1,076	1,024
	Sep	893	982	991	272	897	945	1,048	1,069	948
	Dec	1,217	1,018	1,016	224	835	1,272	1,068	1,062	870
2010	Mar	1,001	1,060	1,028	232	771	1,045	1,104	1,055	803
	Jun	963	1,013	1,023	315	815	995	1,036	1,056	842
	Sep	954	1,049	1,052	283	806	954	1,058	1,064	806
	Dec	1,321	1,105	1,090	237	755	1,318	1,106	1,082	754
2011	Mar	1,035	1,097	1,112	224	711	1,027	1,086	1,106	705
	Jun	1,091	1,147	1,144	298	773	1,073	1,117	1,118	760
	Sep	1,066	1,171	1,156	309	854	1,032	1,143	1,116	826
	Dec	1,338	1,119	1,134	252	855	1,299	1,089	1,111	830
2012	Mar	1,075	1,141	1,140	268	879	1,041	1,102	1,109	851
	Jun	1,121	1,179	1,172	333	854	1,091	1,138	1,130	830
	Sep	1,080	1,185	1,189	315	874	1,027	1,136	1,140	831
	Dec	1,441	1,205	1,202	309	791	1,370	1,147	1,145	752
Percentage change from the previous quarter⁽⁷⁾										
Quarter										
2010	Dec	38.4	5.4	3.6	-16.4	-6.3	38.1	4.6	1.7	-6.5
2011	Mar	-21.7	-0.7	2.0	-5.6	-5.9	-22.1	-1.9	2.1	-6.4
	Jun	5.5	4.5	2.9	33.2	8.8	4.5	2.9	1.1	7.8
	Sep	-2.3	2.1	1.0	3.9	10.4	-3.9	2.3	-0.1	8.7
	Dec	25.6	-4.4	-1.9	-18.4	0.2	25.9	-4.7	-0.5	0.5
2012	Mar	-19.6	2.0	0.5	6.2	2.7	-19.9	1.2	-0.1	2.4
	Jun	4.3	3.3	2.8	24.2	-2.9	4.8	3.2	1.8	-2.4
	Sep	-3.7	0.5	1.5	-5.3	2.4	-5.8	-0.1	1.0	0.1
	Dec	33.5	1.7	1.1	-2.1	-9.5	33.3	1.0	0.4	-9.6
Percentage change from the same quarter of the previous year⁽⁷⁾										
Quarter										
2011	Dec	1.3	1.2	4.1	6.6	13.2	-1.4	-1.6	2.6	10.2
2012	Mar	3.9	4.0	2.5	19.9	23.6	1.4	1.5	0.4	20.6
	Jun	2.7	2.8	2.4	11.8	10.4	1.6	1.8	1.1	9.2
	Sep	1.3	1.2	2.9	1.9	2.4	-0.4	-0.6	2.2	0.6
	Dec	7.7	7.7	6.0	22.3	-7.5	5.4	5.4	3.1	-9.5

- Volume series use price indexes to remove the effect of price changes and are recalculated each quarter.
- Seasonally adjusted values exclude estimated seasonal fluctuations and are recalculated each quarter.
- Trend values exclude estimated seasonal fluctuations and short-term irregular movements and are recalculated each quarter.
- Materials for use in production.
- Finished goods, trading goods, and work in progress.
- Values exclude GST (goods and services tax).
- Percentage changes are calculated on unrounded figures.

Note: ANZSIC Australian and New Zealand Standard Industrial Classification (2006)

Source: Statistics New Zealand

Table 7

Textile, leather, clothing, and footwear manufacturing
ANZSIC C13

Series ref: MFGQ.	Current values					Volumes (values at September 2010 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⁾		
SE1CA	SE1CS	SE1CT	SE4CA	SE5CA	SE1KA	SE1KS	SE1KT	SE5KA		
\$(million)⁽⁶⁾										
Quarter										
2007	Dec	657	657	660	209	349	675	677	680	358
2008	Mar	607	629	629	187	357	624	644	645	367
	Jun	619	611	613	171	349	629	623	625	356
	Sep	617	605	602	170	361	630	615	612	368
	Dec	585	586	586	181	383	595	596	599	392
2009	Mar	548	565	566	153	296	573	590	588	308
	Jun	554	548	545	170	298	583	579	576	314
	Sep	542	533	540	144	294	575	563	571	312
	Dec	556	556	552	141	262	581	583	578	275
2010	Mar	542	557	553	128	267	561	575	572	275
	Jun	505	499	533	143	275	514	511	544	280
	Sep	537	531	512	141	256	537	528	515	256
	Dec	501	501	506	153	244	490	491	494	239
2011	Mar	503	516	514	167	254	470	481	478	237
	Jun	534	527	527	187	245	470	466	468	216
	Sep	535	530	529	170	270	463	457	455	234
	Dec	522	521	519	172	254	443	442	442	215
2012	Mar	493	505	510	174	255	428	437	440	222
	Jun	523	516	512	170	233	460	457	454	206
	Sep	532	528	533	155 R	249 R	484	477	482	226 R
	Dec	564	563	559	161	241	520	519	515	223
Percentage change from the previous quarter⁽⁷⁾										
Quarter										
2010	Dec	-6.6	-5.7	-1.2	8.4	-4.6	-8.7	-7.1	-4.1	-6.7
2011	Mar	0.4	3.2	1.6	8.7	3.8	-4.2	-2.0	-3.2	-0.9
	Jun	6.0	2.0	2.5	12.4	-3.4	0.0	-3.0	-2.2	-8.9
	Sep	0.2	0.6	0.4	-9.2	10.1	-1.4	-2.0	-2.7	8.4
	Dec	-2.3	-1.6	-1.9	0.8	-5.9	-4.4	-3.1	-2.8	-8.0
2012	Mar	-5.6	-3.0	-1.8	1.3	0.6	-3.4	-1.2	-0.5	3.0
	Jun	6.0	2.0	0.5	-2.1	-8.6	7.6	4.5	3.1	-7.2
	Sep	1.8	2.4	4.0	-8.7 R	6.6 R	5.2	4.5	6.3	10.1 R
	Dec	6.0	6.6	4.8	3.6	-3.0	7.4	8.8	6.9	-1.7
Percentage change from the same quarter of the previous year⁽⁷⁾										
Quarter										
2011	Dec	4.2	4.1	2.7	11.9	3.9	-9.7	-9.8	-10.5	-9.9
2012	Mar	-2.0	-2.1	-0.8	4.2	0.7	-9.0	-9.0	-8.0	-6.5
	Jun	-2.0	-2.0	-2.7	-9.3	-4.7	-2.0	-2.0	-3.0	-4.7
	Sep	-0.4	-0.4	0.7	-8.9 R	-7.8 R	4.5	4.5	6.0	-3.3 R
	Dec	8.0	8.0	7.6	-6.3	-4.9	17.4	17.4	16.5	3.4

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 (goods and services tax).
7. Percentage changes are calculated on unrounded figures.

Note: ANZSIC Australian and New Zealand Standard Industrial Classification (2006)

Symbol: R revised

Source: Statistics New Zealand

Table 8

Wood and paper product manufacturing
ANZSIC C14, C15

Series ref: MFGQ.	Current values					Volumes (values at September 2010 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⁾		
	SF1CA	SF1CS	SF1CT	SF4CA	SF5CA	SF1KA	SF1KS	SF1KT	SF5KA	
\$(million)⁽⁶⁾										
Quarter										
2007	Dec	2,063	1,995	1,992	323	693	2,120	2,056	2,057	714
2008	Mar	1,810	1,943	1,952	338	758	1,898	2,034	2,034	796
	Jun	1,943	1,925	1,913	344	761	2,018	1,988	1,978	791
	Sep	1,922	1,875	1,897	322	782	1,929	1,888	1,905	788
	Dec	1,955	1,889	1,859	338	762	1,907	1,850	1,831	746
2009	Mar	1,640	1,764	1,774	343	758	1,646	1,765	1,776	760
	Jun	1,717	1,698	1,711	293	684	1,806	1,779	1,790	717
	Sep	1,791	1,748	1,734	301	681	1,926	1,886	1,872	732
	Dec	1,851	1,789	1,801	280	643	1,995	1,935	1,939	693
2010	Mar	1,745	1,880	1,870	277	648	1,832	1,963	1,960	681
	Jun	1,939	1,914	1,918	295	643	1,982	1,952	1,953	657
	Sep	1,964	1,918	1,904	315	731	1,964	1,924	1,919	731
	Dec	1,879	1,818	1,881	312	688	1,901	1,846	1,901	696
2011	Mar	1,759	1,893	1,879	320	668	1,791	1,916	1,902	680
	Jun	1,902	1,874	1,871	294	685	1,925	1,896	1,903	693
	Sep	1,883	1,840	1,854	335	704	1,937	1,899	1,898	725
	Dec	1,920	1,862	1,844	309	729	1,955	1,899	1,900	743
2012	Mar	1,691	1,819	1,834	278	697	1,771	1,893	1,894	730
	Jun	1,858	1,829	1,816	252	685	1,900	1,872	1,863	701
	Sep	1,837	1,795	1,803	258	699	1,852	1,815	1,829	705
	Dec	1,843	1,791	1,785	249	706	1,866	1,814	1,804	714
Percentage change from the previous quarter⁽⁷⁾										
Quarter										
2010	Dec	-4.3	-5.2	-1.2	-1.1	-5.9	-3.2	-4.0	-1.0	-4.8
2011	Mar	-6.4	4.1	-0.1	2.7	-2.9	-5.8	3.8	0.1	-2.2
	Jun	8.2	-1.0	-0.4	-8.0	2.5	7.5	-1.0	0.0	1.9
	Sep	-1.0	-1.8	-0.9	13.7	2.9	0.6	0.1	-0.3	4.6
	Dec	1.9	1.2	-0.5	-7.7	3.5	0.9	0.0	0.1	2.5
2012	Mar	-11.9	-2.3	-0.5	-9.9	-4.5	-9.4	-0.3	-0.3	-1.8
	Jun	9.9	0.6	-1.0	-9.3	-1.6	7.3	-1.1	-1.6	-3.9
	Sep	-1.2	-1.8	-0.7	2.4	2.0	-2.6	-3.0	-1.9	0.5
	Dec	0.4	-0.3	-1.0	-3.7	0.9	0.8	0.0	-1.3	1.3
Percentage change from the same quarter of the previous year⁽⁷⁾										
Quarter										
2011	Dec	2.2	2.4	-1.9	-1.0	6.1	2.8	2.9	-0.1	6.7
2012	Mar	-3.8	-3.9	-2.4	-13.1	4.3	-1.1	-1.2	-0.5	7.2
	Jun	-2.3	-2.4	-2.9	-14.3	0.1	-1.3	-1.3	-2.1	1.1
	Sep	-2.5	-2.4	-2.7	-22.8	-0.8	-4.4	-4.4	-3.6	-2.8
	Dec	-4.0	-3.8	-3.2	-19.4	-3.3	-4.6	-4.5	-5.0	-3.8

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 (goods and services tax).
7. Percentage changes are calculated on unrounded figures.

Note: ANZSIC Australian and New Zealand Standard Industrial Classification (2006)

Source: Statistics New Zealand

Table 9

Printing
ANZSIC C16

Series ref: MFGQ.	Current values					Volumes (values at September 2010 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⁾		
SG1CA	SG1CS	SG1CT	SG4CA	SG5CA	SG1KA	SG1KS	SG1KT	SG5KA		
\$(million)⁽⁶⁾										
Quarter										
2007	Dec	493	477	475	53	47	532	510	510	50
2008	Mar	448	478	478	57	46	483	513	513	50
	Jun	478	471	471	61	56	514	511	508	60
	Sep	459	455	451	69	49	497	493	487	53
	Dec	441	424	428	65	52	476	456	464	56
2009	Mar	397	421	425	60	50	418	442	450	53
	Jun	446	442	432	50	41	461	459	446	43
	Sep	429	426	433	48	43	441	437	447	44
	Dec	455	437	434	50	44	468	448	446	45
2010	Mar	413	438	434	51	45	425	449	442	46
	Jun	423	422	427	57	47	431	430	438	47
	Sep	433	430	429	53	41	433	430	430	41
	Dec	452	432	426	59	42	452	432	422	42
2011	Mar	355	374	413	53	36	354	374	414	36
	Jun	408	411	409	55	36	406	406	407	36
	Sep	418	415	413	61	47	413	410	409	46
	Dec	434	414	418	59	37	428	409	411	37
2012	Mar	401	422	413	62	36	394	416	405	35
	Jun	387	392	400	57	39	380	381	390	38
	Sep	394	391	386	46	43	382	379	374	42
	Dec	392	372	375	47	37	379	361	364	36
Percentage change from the previous quarter⁽⁷⁾										
Quarter										
2010	Dec	4.4	0.5	-0.8	11.7	3.2	4.3	0.5	-1.9	3.1
2011	Mar	-21.4	-13.3	-3.0	-10.7	-14.4	-21.7	-13.5	-2.0	-14.6
	Jun	14.7	9.7	-1.0	3.6	1.1	14.8	8.7	-1.6	1.2
	Sep	2.7	1.0	1.0	11.2	29.0	1.6	0.8	0.5	27.6
	Dec	3.8	-0.2	1.2	-3.5	-20.3	3.7	-0.3	0.5	-20.4
2012	Mar	-7.7	2.0	-1.1	6.4	-3.4	-7.9	1.7	-1.6	-3.5
	Jun	-3.4	-7.1	-3.2	-8.1	8.3	-3.6	-8.3	-3.6	8.1
	Sep	1.9	-0.3	-3.6	-19.0	11.0	0.6	-0.5	-4.0	9.4
	Dec	-0.7	-4.7	-2.7	1.1	-13.9	-0.9	-4.9	-2.8	-14.1
Percentage change from the same quarter of the previous year⁽⁷⁾										
Quarter										
2011	Dec	-3.9	-4.2	-1.8	-0.7	-11.0	-5.2	-5.4	-2.7	-12.2
2012	Mar	12.8	12.7	0.1	18.3	0.4	11.4	11.2	-2.2	-0.9
	Jun	-5.0	-4.6	-2.2	4.9	7.6	-6.5	-6.2	-4.2	5.9
	Sep	-5.7	-5.8	-6.6	-23.5	-7.5	-7.4	-7.4	-8.5	-9.2
	Dec	-9.8	-10.0	-10.2	-19.9	-0.1	-11.6	-11.7	-11.5	-2.0

- Volume series use price indexes to remove the effect of price changes and are recalculated each quarter.
- Seasonally adjusted values exclude estimated seasonal fluctuations and are recalculated each quarter.
- Trend values exclude estimated seasonal fluctuations and short-term irregular movements and are recalculated each quarter.
- Materials for use in production.
- Finished goods, trading goods, and work in progress.
- Values exclude GST (goods and services tax).
- Percentage changes are calculated on unrounded figures.

Note: ANZSIC Australian and New Zealand Standard Industrial Classification (2006)

Source: Statistics New Zealand

Table 10

Petroleum and coal product manufacturing
ANZSIC C17

Series ref: MFGQ.	Current values					Volumes (values at September 2010 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⁾		
SH1CA	SH1CS	SH1CT	SH4CA	SH5CA	SH1KA	SH1KS	SH1KT	SH5KA		
\$(million)⁽⁶⁾										
Quarter										
2007	Dec	1,747	1,747	1,691	542	830	1,721	1,721	1,687	1,029
2008	Mar	1,794	1,794	1,869	665	964	1,688	1,688	1,709	1,202
	Jun	2,064	2,064	1,983	1,036	1,145	1,688	1,688	1,660	1,600
	Sep	1,934	1,934	1,997	882	957	1,469	1,469	1,677	1,261
	Dec	1,893	1,893	1,834	540	642	1,767	1,767	1,710	971
2009	Mar	1,579	1,579	1,612	489	793	1,639	1,639	1,653	982
	Jun	1,433	1,433	1,436	790	782	1,524	1,524	1,532	1,597
	Sep	1,440	1,440	1,444	492	709	1,532	1,532	1,553	1,063
	Dec	1,545	1,545	1,545	398	744	1,665	1,665	1,638	1,003
2010	Mar	1,636	1,636	1,609	470	708	1,648	1,648	1,641	919
	Jun	1,596	1,596	1,625	431	881	1,577	1,577	1,603	871
	Sep	1,671	1,671	1,651	376	678	1,671	1,671	1,637	678
	Dec	1,706	1,706	1,717	565	773	1,685	1,685	1,672	764
2011	Mar	1,811	1,811	1,824	632	780	1,630	1,630	1,637	702
	Jun	1,949	1,949	1,905	805	904	1,587	1,587	1,577	736
	Sep	1,907	1,907	1,965	800	791	1,574	1,574	1,615	653
	Dec	2,075	2,075	2,043	607	812	1,738	1,738	1,696	680
2012	Mar	2,055	2,055	2,040	892	930	1,668	1,668	1,665	755
	Jun	1,886	1,886	1,895	526	786	1,517	1,517	1,528	632
	Sep	1,804	1,804	1,844	619	961	1,472	1,472	1,499	784
	Dec	1,919	1,919	1,883	536	806	1,565	1,565	1,540	657
Percentage change from the previous quarter⁽⁷⁾										
Quarter										
2010	Dec	2.1	2.1	3.9	50.2	14.1	0.9	0.9	2.1	12.7
2011	Mar	6.1	6.1	6.2	11.9	0.9	-3.3	-3.3	-2.1	-8.1
	Jun	7.6	7.6	4.4	27.2	15.9	-2.6	-2.6	-3.6	4.9
	Sep	-2.1	-2.1	3.2	-0.6	-12.5	-0.8	-0.8	2.4	-11.4
	Dec	8.8	8.8	4.0	-24.1	2.7	10.4	10.4	5.0	4.2
2012	Mar	-1.0	-1.0	-0.1	47.0	14.5	-4.0	-4.0	-1.8	11.0
	Jun	-8.2	-8.2	-7.1	-41.0	-15.5	-9.0	-9.0	-8.2	-16.3
	Sep	-4.3	-4.3	-2.7	17.7	22.4	-3.0	-3.0	-2.0	24.1
	Dec	6.4	6.4	2.1	-13.4	-16.2	6.4	6.4	2.7	-16.2
Percentage change from the same quarter of the previous year⁽⁷⁾										
Quarter										
2011	Dec	21.6	21.6	19.0	7.3	5.0	3.1	3.1	1.5	-11.0
2012	Mar	13.5	13.5	11.9	41.0	19.2	2.3	2.3	1.8	7.5
	Jun	-3.2	-3.2	-0.5	-34.6	-13.1	-4.4	-4.4	-3.1	-14.2
	Sep	-5.4	-5.4	-6.1	-22.6	21.5	-6.5	-6.5	-7.2	20.1
	Dec	-7.5	-7.5	-7.8	-11.7	-0.8	-9.9	-9.9	-9.2	-3.4

- Volume series use price indexes to remove the effect of price changes and are recalculated each quarter.
- This series is not seasonally adjusted as it does not currently exhibit a reliable seasonal pattern.
- Trend values exclude estimated seasonal fluctuations and short-term irregular movements and are recalculated each quarter.
- Materials for use in production.
- Finished goods, trading goods, and work in progress.
- Values exclude GST (goods and services tax).
- Percentage changes are calculated on unrounded figures.

Note: ANZSIC Australian and New Zealand Standard Industrial Classification (2006)

Source: Statistics New Zealand

Table 11

Chemical, polymer, and rubber product manufacturing
ANZSIC C18, C19

Series ref: MFGQ.	Current values					Volumes (values at September 2010 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⁾		
	SI1CA	SI1CS	SI1CT	SI4CA	SI5CA	SI1KA	SI1KS	SI1KT	SI5KA	
\$(million)⁽⁶⁾										
Quarter										
2007	Dec	2,060	1,819	1,808	379	745	2,271	2,034	2,022	821
2008	Mar	1,697	1,831	1,836	405	828	1,849	1,981	1,997	888
	Jun	1,855	1,888	1,906	467	818	1,966	1,980	1,971	867
	Sep	1,910	2,001	1,958	466	1,093	1,900	1,994	1,906	1,063
	Dec	2,133	1,880	1,874	565	1,078	1,929	1,725	1,781	937
2009	Mar	1,595	1,717	1,758	586	996	1,571	1,676	1,693	938
	Jun	1,724	1,750	1,721	521	841	1,677	1,687	1,677	816
	Sep	1,612	1,700	1,710	456	883	1,591	1,682	1,677	852
	Dec	1,918	1,690	1,689	398	742	1,863	1,661	1,670	724
2010	Mar	1,589	1,702	1,711	395	780	1,596	1,692	1,693	778
	Jun	1,713	1,737	1,709	392	787	1,703	1,718	1,699	782
	Sep	1,577	1,672	1,700	419	798	1,577	1,677	1,702	798
	Dec	2,001	1,762	1,769	415	742	1,992	1,770	1,771	739
2011	Mar	1,773	1,890	1,853	397	725	1,757	1,856	1,828	718
	Jun	1,811	1,837	1,861	383	800	1,768	1,789	1,810	781
	Sep	1,760	1,873	1,877	484	896	1,694	1,808	1,816	862
	Dec	2,201	1,940	1,923	486	856	2,108	1,870	1,844	820
2012	Mar	1,816	1,928	1,931	472	826	1,729	1,821	1,836	787
	Jun	1,925	1,953	1,977	421	890	1,837	1,862	1,877	850
	Sep	1,955	2,087	2,051	481	961	1,856	1,987	1,956	912
	Dec	2,355	2,074	2,101	391	810	2,245	1,987	2,009	772
Percentage change from the previous quarter⁽⁷⁾										
Quarter										
2010	Dec	26.9	5.4	4.1	-0.9	-7.0	26.4	5.5	4.0	-7.4
2011	Mar	-11.4	7.2	4.8	-4.3	-2.3	-11.8	4.8	3.2	-2.8
	Jun	2.1	-2.8	0.4	-3.6	10.4	0.6	-3.6	-1.0	8.8
	Sep	-2.8	2.0	0.9	26.3	12.0	-4.2	1.1	0.4	10.4
	Dec	25.1	3.6	2.5	0.4	-4.5	24.5	3.4	1.5	-4.9
2012	Mar	-17.5	-0.6	0.4	-2.9	-3.5	-18.0	-2.6	-0.4	-4.0
	Jun	6.0	1.3	2.4	-10.7	7.8	6.2	2.3	2.2	8.0
	Sep	1.5	6.9	3.7	14.1	7.9	1.0	6.7	4.2	7.4
	Dec	20.5	-0.6	2.5	-18.7	-15.7	20.9	0.0	2.7	-15.4
Percentage change from the same quarter of the previous year⁽⁷⁾										
Quarter										
2011	Dec	10.0	10.1	8.7	17.0	15.3	5.8	5.6	4.1	10.9
2012	Mar	2.4	2.0	4.2	18.7	14.0	-1.6	-1.9	0.4	9.6
	Jun	6.3	6.3	6.2	10.0	11.3	3.9	4.1	3.7	8.8
	Sep	11.1	11.4	9.2	-0.6	7.2	9.6	9.9	7.7	5.8
	Dec	7.0	6.9	9.3	-19.5	-5.4	6.5	6.3	9.0	-5.8

- Volume series use price indexes to remove the effect of price changes and are recalculated each quarter.
- Seasonally adjusted values exclude estimated seasonal fluctuations and are recalculated each quarter.
- Trend values exclude estimated seasonal fluctuations and short-term irregular movements and are recalculated each quarter.
- Materials for use in production.
- Finished goods, trading goods, and work in progress.
- Values exclude GST (goods and services tax).
- Percentage changes are calculated on unrounded figures.

Note: ANZSIC Australian and New Zealand Standard Industrial Classification (2006)

Source: Statistics New Zealand

Table 12

Non-metallic mineral product manufacturing ANZSIC C20

Series ref: MFGQ.	Current values					Volumes (values at September 2010 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⁾		
	SJ1CA	SJ1CS	SJ1CT	SJ4CA	SJ5CA	SJ1KA	SJ1KS	SJ1KT	SJ5KA	
\$(million)⁽⁶⁾										
Quarter										
2007	Dec	777	757	747	73	201	846	825	815	219
2008	Mar	722	755	766	77	197	782	818	829	213
	Jun	783	776	761	79	207	840	830	814	222
	Sep	728	723	747	73	218	762	757	786	228
	Dec	754	736	724	72	196	778	761	749	203
2009	Mar	657	684	684	78	202	672	700	700	206
	Jun	641	634	644	70	192	655	646	656	196
	Sep	646	642	635	70	193	660	657	648	197
	Dec	648	635	641	63	185	661	649	656	189
2010	Mar	619	643	636	67	172	635	659	652	176
	Jun	626	618	623	73	175	641	631	634	179
	Sep	617	612	610	72	182	617	613	614	182
	Dec	616	608	609	78	183	616	608	608	183
2011	Mar	592	613	612	74	214	588	609	609	213
	Jun	626	618	620	79	216	624	614	616	215
	Sep	630	624	616	69	239	625	620	612	237
	Dec	605	600	608	63	222	600	596	603	220
2012	Mar	600	620	621	68	217	593	612	613	214
	Jun	662	654	645	65	226	652	642	635	222
	Sep	663	656	666	64	228	653	647	655	225
	Dec	703	698	691	59	232	689	685	679	227
Percentage change from the previous quarter⁽⁷⁾										
Quarter										
2010	Dec	-0.1	-0.6	-0.2	8.0	0.7	-0.2	-0.8	-1.0	0.5
2011	Mar	-3.9	0.9	0.5	-4.4	17.1	-4.4	0.1	0.2	16.5
	Jun	5.6	0.7	1.3	6.3	0.6	6.0	0.8	1.1	1.0
	Sep	0.7	1.0	-0.7	-13.3	10.8	0.2	1.0	-0.6	10.3
	Dec	-3.9	-3.8	-1.4	-8.2	-7.0	-3.9	-3.9	-1.5	-7.0
2012	Mar	-0.9	3.3	2.2	8.1	-2.5	-1.3	2.8	1.7	-2.9
	Jun	10.4	5.4	3.8	-4.3	4.2	10.0	4.8	3.6	3.9
	Sep	0.1	0.3	3.2	-1.8	1.2	0.1	0.8	3.2	1.2
	Dec	5.9	6.5	3.8	-7.0	1.4	5.4	5.9	3.7	0.9
Percentage change from the same quarter of the previous year⁽⁷⁾										
Quarter										
2011	Dec	-1.8	-1.3	-0.3	-19.0	21.4	-2.4	-2.0	-0.7	20.6
2012	Mar	1.3	1.1	1.4	-8.5	1.1	0.8	0.6	0.7	0.6
	Jun	5.9	5.8	4.0	-17.6	4.7	4.6	4.6	3.1	3.5
	Sep	5.3	5.1	8.1	-6.7	-4.4	4.5	4.4	7.0	-5.0
	Dec	16.1	16.4	13.7	-5.6	4.2	14.7	15.0	12.6	3.0

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 (goods and services tax).
7. Percentage changes are calculated on unrounded figures.

Note: ANZSIC Australian and New Zealand Standard Industrial Classification (2006)

Source: Statistics New Zealand

Table 13

Metal product manufacturing
 ANZSIC C21, C22

Series ref: MFGQ.	Current values					Volumes (values at September 2010 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⁾		
SK1CA	SK1CS	SK1CT	SK4CA	SK5CA	SK1KA	SK1KS	SK1KT	SK5KA		
\$(million)⁽⁶⁾										
Quarter										
2007	Dec	2,348	2,399	2,383	397	699	2,808	2,868	2,852	831
2008	Mar	2,284	2,464	2,497	412	673	2,684	2,899	2,940	788
	Jun	2,777	2,670	2,645	441	671	3,177	3,048	2,999	764
	Sep	2,813	2,680	2,671	501	671	2,991	2,853	2,859	710
	Dec	2,465	2,506	2,508	507	677	2,478	2,522	2,515	676
2009	Mar	2,124	2,287	2,286	482	629	2,022	2,176	2,186	594
	Jun	2,167	2,081	2,155	420	550	2,120	2,030	2,064	534
	Sep	2,251	2,161	2,150	377	543	2,270	2,186	2,134	545
	Dec	2,164	2,193	2,191	384	538	2,189	2,218	2,236	541
2010	Mar	2,055	2,200	2,191	378	529	2,138	2,288	2,265	551
	Jun	2,271	2,180	2,197	417	475	2,345	2,246	2,259	491
	Sep	2,333	2,259	2,259	392	470	2,333	2,268	2,285	470
	Dec	2,317	2,341	2,324	402	532	2,342	2,363	2,332	538
2011	Mar	2,190	2,331	2,353	403	519	2,181	2,319	2,345	517
	Jun	2,464	2,369	2,340	416	486	2,447	2,346	2,326	483
	Sep	2,349	2,287	2,304	414	478	2,349	2,302	2,306	478
	Dec	2,292	2,310	2,332	427 R	474 R	2,308	2,320	2,352	477 R
2012	Mar	2,294	2,434	2,395	374 R	437 R	2,331	2,469	2,426	445 R
	Jun	2,444	2,350	2,359	383 R	476 R	2,476	2,376	2,374	482 R
	Sep	2,219	2,167	2,299	395 R	463 R	2,262	2,225	2,302	472 R
	Dec	2,295	2,310	2,290	388	465	2,340	2,345	2,306	474
Percentage change from the previous quarter⁽⁷⁾										
Quarter										
2010	Dec	-0.7	3.6	2.9	2.4	13.2	0.4	4.2	2.1	14.4
2011	Mar	-5.5	-0.4	1.3	0.3	-2.5	-6.9	-1.9	0.5	-4.0
	Jun	12.5	1.6	-0.6	3.1	-6.3	12.2	1.1	-0.8	-6.6
	Sep	-4.7	-3.4	-1.5	-0.3	-1.7	-4.0	-1.9	-0.8	-1.0
	Dec	-2.4	1.0	1.2	2.9 R	-0.9 R	-1.7	0.8	2.0	-0.2 R
2012	Mar	0.1	5.3	2.7	-12.3 R	-7.6 R	1.0	6.5	3.1	-6.8 R
	Jun	6.5	-3.4	-1.5	2.4 R	8.7 R	6.2	-3.8	-2.2	8.4 R
	Sep	-9.2	-7.8	-2.5	3.1 R	-2.7 R	-8.6	-6.3	-3.0	-2.1 R
	Dec	3.4	6.6	-0.4	-1.8	0.6	3.4	5.4	0.2	0.6
Percentage change from the same quarter of the previous year⁽⁷⁾										
Quarter										
2011	Dec	-1.1	-1.3	0.4	6.1 R	-11.0 R	-1.5	-1.8	0.9	-11.4 R
2012	Mar	4.7	4.4	1.8	-7.2 R	-15.7 R	6.9	6.5	3.5	-14.0 R
	Jun	-0.8	-0.8	0.8	-7.9 R	-2.2 R	1.2	1.3	2.1	-0.2 R
	Sep	-5.5	-5.2	-0.2	-4.7 R	-3.2 R	-3.7	-3.3	-0.2	-1.4 R
	Dec	0.1	0.0	-1.8	-9.1	-1.7	1.4	1.1	-2.0	-0.5

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 (goods and services tax).
7. Percentage changes are calculated on unrounded figures.

Note: ANZSIC Australian and New Zealand Standard Industrial Classification (2006)

Symbol: R revised

Source: Statistics New Zealand

Table 14

Transport equipment; machinery and equipment manufacturing
ANZSIC C23, C24

Series ref: MFGQ.	Current values					Volumes (values at September 2010 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⁾		
SL1CA	SL1CS	SL1CT	SL4CA	SL5CA	SL1KA	SL1KS	SL1KT	SL5KA		
\$(million)⁽⁶⁾										
Quarter										
2007	Dec	2,451	2,412	2,385	620	864	2,707	2,648	2,621	952
2008	Mar	2,272	2,410	2,444	645	815	2,469	2,640	2,669	889
	Jun	2,527	2,533	2,512	689	743	2,712	2,719	2,704	793
	Sep	2,652	2,540	2,549	711	807	2,790	2,671	2,668	848
	Dec	2,504	2,469	2,442	735	830	2,531	2,482	2,461	835
2009	Mar	2,106	2,230	2,253	661	804	2,050	2,183	2,214	788
	Jun	2,101	2,105	2,097	649	721	2,079	2,081	2,069	728
	Sep	2,149	2,059	2,082	650	767	2,140	2,054	2,070	771
	Dec	2,200	2,171	2,157	703	795	2,184	2,150	2,142	792
2010	Mar	2,089	2,209	2,190	640	733	2,078	2,200	2,180	735
	Jun	2,129	2,133	2,152	631	754	2,140	2,138	2,155	757
	Sep	2,253	2,163	2,157	687	692	2,253	2,168	2,165	692
	Dec	2,281	2,251	2,273	643	655	2,292	2,266	2,287	658
2011	Mar	2,345	2,473	2,407	709	702	2,345	2,469	2,420	702
	Jun	2,452	2,456	2,468	631	717	2,467	2,462	2,476	721
	Sep	2,539	2,442	2,430	696	764	2,541	2,448	2,435	765
	Dec	2,388	2,358	2,366	686	759	2,376	2,360	2,367	755
2012	Mar	2,219	2,334	2,344	649	708	2,223	2,331	2,346	710
	Jun	2,491	2,496	2,388	665	706	2,471	2,466	2,386	701
	Sep	2,514	2,420	2,405	656	736	2,491	2,401	2,398	729
	Dec	2,398	2,371	2,385	644	717	2,384	2,374	2,379	713
Percentage change from the previous quarter⁽⁷⁾										
Quarter										
2010	Dec	1.2	4.1	5.4	-6.3	-5.3	1.7	4.5	5.6	-4.8
2011	Mar	2.8	9.9	5.9	10.2	7.1	2.3	8.9	5.9	6.5
	Jun	4.6	-0.7	2.6	-10.9	2.2	5.2	-0.3	2.3	2.8
	Sep	3.5	-0.6	-1.5	10.2	6.6	3.0	-0.6	-1.7	6.1
	Dec	-5.9	-3.5	-2.6	-1.5	-0.7	-6.5	-3.6	-2.8	-1.3
2012	Mar	-7.1	-1.0	-0.9	-5.4	-6.7	-6.4	-1.3	-0.9	-6.0
	Jun	12.3	6.9	1.9	2.5	-0.3	11.2	5.8	1.7	-1.3
	Sep	0.9	-3.0	0.7	-1.4	4.2	0.8	-2.6	0.5	4.1
	Dec	-4.6	-2.0	-0.8	-1.8	-2.5	-4.3	-1.1	-0.8	-2.2
Percentage change from the same quarter of the previous year⁽⁷⁾										
Quarter										
2011	Dec	4.7	4.7	4.1	6.6	15.8	3.7	4.2	3.5	14.7
2012	Mar	-5.4	-5.6	-2.6	-8.5	0.9	-5.2	-5.6	-3.1	1.1
	Jun	1.6	1.6	-3.3	5.3	-1.5	0.2	0.2	-3.7	-2.9
	Sep	-1.0	-0.9	-1.0	-5.8	-3.7	-2.0	-1.9	-1.5	-4.7
	Dec	0.4	0.5	0.8	-6.0	-5.5	0.3	0.6	0.5	-5.6

- Volume series use price indexes to remove the effect of price changes and are recalculated each quarter.
- Seasonally adjusted values exclude estimated seasonal fluctuations and are recalculated each quarter.
- Trend values exclude estimated seasonal fluctuations and short-term irregular movements and are recalculated each quarter.
- Materials for use in production.
- Finished goods, trading goods, and work in progress.
- Values exclude GST (goods and services tax).
- Percentage changes are calculated on unrounded figures.

Note: ANZSIC Australian and New Zealand Standard Industrial Classification (2006)

Source: Statistics New Zealand

Table 15

Furniture and other manufacturing
ANZSIC C25

Series ref: MFGQ.	Current values					Volumes (values at September 2010 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⁾		
SM1CA	SM1CS	SM1CT	SM4CA	SM5CA	SM1KA	SM1KS	SM1KT	SM5KA		
\$(million)⁽⁶⁾										
Quarter										
2007	Dec	508	467	461	116	110	566	519	513	124
2008	Mar	404	440	455	116	109	447	486	497	121
	Jun	454	467	445	111	118	492	505	480	129
	Sep	435	426	433	113	134	459	450	461	143
	Dec	466	428	422	111	121	485	445	436	127
2009	Mar	371	406	416	106	131	380	416	425	134
	Jun	411	423	419	105	124	419	431	427	127
	Sep	439	427	425	109	122	447	436	433	125
	Dec	461	424	427	99	117	464	427	432	119
2010	Mar	390	428	421	94	113	393	432	425	114
	Jun	395	407	412	99	120	397	408	413	121
	Sep	419	405	407	103	127	419	406	405	127
	Dec	441	408	404	101	137	439	406	406	136
2011	Mar	369	405	405	93	109	368	404	401	109
	Jun	385	396	403	91	94	381	392	399	94
	Sep	425	410	397	95	102	417	402	393	100
	Dec	411	381	391	103	88	402	374	381	86
2012	Mar	352	386	386	87	103	341	373	373	100
	Jun	377	389	384	89	90	362	374	369	87
	Sep	383	368	374	84	89	366	351	357	85
	Dec	398	369	365	96	81	379	353	349	77
Percentage change from the previous quarter⁽⁷⁾										
Quarter										
2010	Dec	5.3	0.8	-0.7	-2.2	7.9	4.7	0.1	0.3	7.3
2011	Mar	-16.4	-0.6	0.2	-7.5	-20.4	-16.1	-0.5	-1.3	-20.2
	Jun	4.2	-2.2	-0.6	-2.6	-13.3	3.5	-3.0	-0.5	-13.9
	Sep	10.6	3.3	-1.5	4.8	7.6	9.6	2.7	-1.5	6.7
	Dec	-3.4	-7.0	-1.4	8.0	-13.9	-3.6	-7.2	-3.1	-14.0
2012	Mar	-14.3	1.2	-1.4	-15.4	17.9	-15.2	0.0	-2.0	16.6
	Jun	7.0	1.0	-0.5	2.4	-12.5	6.2	0.1	-1.2	-13.1
	Sep	1.6	-5.5	-2.6	-6.3	-1.6	1.0	-5.9	-3.0	-2.3
	Dec	3.8	0.5	-2.3	14.7	-9.4	3.7	0.5	-2.5	-9.5
Percentage change from the same quarter of the previous year⁽⁷⁾										
Quarter										
2011	Dec	-6.9	-6.6	-3.2	2.0	-36.0	-8.3	-8.0	-6.3	-37.0
2012	Mar	-4.7	-4.9	-4.7	-6.7	-5.3	-7.3	-7.6	-7.0	-7.9
	Jun	-2.1	-1.8	-4.7	-1.9	-4.4	-4.9	-4.7	-7.6	-7.1
	Sep	-10.0	-10.2	-5.8	-12.4	-12.6	-12.4	-12.6	-9.0	-14.9
	Dec	-3.2	-3.0	-6.7	-6.9	-8.0	-5.7	-5.5	-8.4	-10.4

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 (goods and services tax).
7. Percentage changes are calculated on unrounded figures.

Note: ANZSIC Australian and New Zealand Standard Industrial Classification (2006)

Source: Statistics New Zealand

Table 16

Purchases and operating expenditure

By industry

Manufacturing industry	Series ref: MFGQ.	Quarter								
		2010	2011				2012			
		Dec	Mar	Jun	Sep	Dec	Mar	Jun	Sep	Dec
\$(million)⁽¹⁾										
Meat and dairy products	SA2CA	6,146	7,148	6,847	4,856	6,636	6,718	6,115	4,616	5,810
Seafood processing	SB2CA	337	299	320	311	342	330	342	369	299
Fruit, oils, cereals, and other food	SC2CA	1,304	1,257	1,277	1,360	1,344	1,296	1,310	1,331 R	1,408
Beverage and tobacco products	SD2CA	784	633	765	732	822	728	822	682	910
Textiles, leather, clothing, and footwear	SE2CA	364	395	377	407	372	365	379	359	399
Wood and paper products	SF2CA	1,373	1,315	1,451	1,493	1,442	1,335	1,450	1,420	1,383
Printing	SG2CA	272	228	253	272	251	233	235	241	240
Petroleum and coal products	SH2CA	1,338	1,620	1,449	1,798	1,582	1,833	1,480	1,556	1,493
Chemical, polymer, and rubber products	SI2CA	1,434	1,311	1,314	1,266	1,633	1,361	1,452	1,478	1,769
Non-metallic mineral products	SJ2CA	426	415	446	442	429	420	446	464	476
Metal products	SK2CA	1,680	1,643	1,754	1,816	1,682	1,717	1,779	1,704	1,666
Transport equipment; machinery and equipment	SL2CA	1,476	1,586	1,645	1,723	1,559	1,522	1,610	1,643	1,569
Furniture and other	SM2CA	290	246	246	273	260	226	237	235	229
All manufacturing excluding meat and dairy	SY2CA	11,078	10,947	11,297	11,893	11,718	11,365	11,544	11,482 R	11,841
All manufacturing	SZ2CA	17,223	18,095	18,144	16,749	18,354	18,084	17,658	16,098 R	17,650
Percentage change from the same quarter of the previous year⁽²⁾										
Meat and dairy products		7.0	38.7	18.3	17.7	8.0	-6.0	-10.7	-4.9	-12.5
Seafood processing		-7.7	-6.6	-1.4	-4.0	1.7	10.3	6.9	18.6	-12.7
Fruit, oils, cereals, and other food		-9.9	-1.0	0.0	11.6	3.1	3.1	2.6	-2.1 R	4.8
Beverage and tobacco products		0.8	-7.0	9.4	21.6	4.9	14.9	7.4	-6.8	10.6
Textiles, leather, clothing, and footwear		-8.1	4.9	8.6	7.6	2.1	-7.6	0.6	-11.8	7.2
Wood and paper products		1.5	1.5	1.6	1.9	5.0	1.5	-0.1	-4.9	-4.1
Printing		-1.9	-4.2	6.6	8.0	-7.8	1.9	-7.0	-11.5	-4.2
Petroleum and coal products		2.9	21.8	1.1	40.7	18.3	13.2	2.2	-13.5	-5.7
Chemical, polymer, and rubber products		2.7	16.7	2.0	7.3	13.8	3.8	10.5	16.7	8.3
Non-metallic mineral products		-1.8	-6.9	4.5	1.0	0.8	1.4	0.0	5.1	10.9
Metal products		12.6	7.4	6.0	7.1	0.1	4.5	1.4	-6.1	-0.9
Transport equipment; machinery and equipment		1.2	12.1	18.3	14.1	5.7	-4.0	-2.1	-4.7	0.6
Furniture and other		-0.6	-0.6	-6.0	-3.4	-10.5	-7.9	-3.6	-13.9	-11.6
All manufacturing excluding meat and dairy		0.8	6.6	4.9	11.9	5.8	3.8	2.2	-3.5 R	1.0
All manufacturing		2.9	17.3	9.6	13.5	6.6	-0.1	-2.7	-3.9 R	-3.8

1. Values exclude GST.

2. Percentage changes are calculated on unrounded figures.

Symbol: R revised

Source: Statistics New Zealand

Table 17

Salaries and wages

By industry

Manufacturing industry	Series ref: MFGQ.	Quarter								
		2010	2011				2012			
		Dec	Mar	Jun	Sep	Dec	Mar	Jun	Sep	Dec
\$(million)⁽¹⁾										
Meat and dairy products	SA3CA	560	635	569	508	614	632	607	539	623
Seafood processing	SB3CA	73	71	81	72	73	82	77	72	77
Fruit, oils, cereals, and other food	SC3CA	254	262	246	250	259	263	264	258	267
Beverage and tobacco products	SD3CA	118	119	126	118	124	122	136	124	128
Textiles, leather, clothing, and footwear	SE3CA	114	107	108	109	106	99	128	110	111
Wood and paper products	SF3CA	301	274	308	321	336	288	303	295	303
Printing	SG3CA	120	99	107	111	115	111	108	109	110
Petroleum and coal products	SH3CA	32	34	36	30	35	34	30	29	30
Chemical, polymer, and rubber products	SI3CA	265	252	277	278	279	285	301	302	294
Non-metallic mineral products	SJ3CA	108	105	111	110	109	105	116	115	117
Metal products	SK3CA	395	371	396	372	376	364	409	392	406
Transport equipment; machinery and equipment	SL3CA	558	548	558	565	587	534	579	573	574
Furniture and other	SM3CA	104	91	102	104	107	98	96	92	98
All manufacturing excluding meat and dairy	SY3CA	2,442	2,332	2,456	2,438	2,505	2,385	2,546	2,472	2,514
All manufacturing	SZ3CA	3,002	2,967	3,025	2,946	3,118	3,017	3,153	3,011	3,137
Percentage change from the same quarter of the previous year⁽²⁾										
Meat and dairy products		8.7	8.0	0.5	13.2	9.6	-0.4	6.7	6.1	1.4
Seafood processing		-2.9	9.1	16.7	-0.9	-0.3	15.3	-4.2	-0.3	5.1
Fruit, oils, cereals, and other food		-7.8	9.3	-4.8	-5.2	1.7	0.7	7.1	3.4	3.4
Beverage and tobacco products		2.8	4.7	5.9	2.2	5.4	2.6	7.6	5.3	3.1
Textiles, leather, clothing, and footwear		4.6	4.4	-0.2	-2.8	-7.2	-7.6	18.7	1.0	4.8
Wood and paper products		3.4	-0.4	3.5	7.0	11.6	5.1	-1.7	-8.0	-9.9
Printing		7.3	-11.4	-8.8	-2.0	-4.0	11.8	1.1	-1.1	-4.2
Petroleum and coal products		12.8	28.2	26.2	7.3	8.1	0.1	-16.1	-1.0	-14.5
Chemical, polymer, and rubber products		6.3	6.3	1.9	12.2	5.2	13.2	8.4	8.8	5.5
Non-metallic mineral products		-5.0	0.6	0.9	1.2	1.4	0.1	4.4	4.4	7.2
Metal products		9.4	16.9	15.5	4.1	-5.0	-1.7	3.3	5.5	8.1
Transport equipment; machinery and equipment		3.1	6.0	2.6	1.1	5.3	-2.5	3.8	1.4	-2.2
Furniture and other		-4.1	-9.9	1.7	0.4	2.6	7.1	-6.3	-11.6	-8.5
All manufacturing excluding meat and dairy		2.6	5.5	3.8	2.5	2.6	2.3	3.7	1.4	0.4
All manufacturing		3.7	6.0	3.2	4.2	3.9	1.7	4.2	2.2	0.6

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

2. Percentage changes are calculated on unrounded figures.

Source: Statistics New Zealand