# information paper 

on
business statistics

# RE-BASING OF THE WHOLESALE TRADE INDEX <br> $(2012=100)$ 

Singapore Department of Statistics<br>May 2013

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Please direct enquiries on this information paper to:
Wholesale Trade Index Section
Singapore Department of Statistics
Tel: 63328058
Email: info@singstat.gov.sg
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# RE-BASING OF THE WHOLESALE TRADE INDEX <br> $(2012=100)$ 

## I Introduction

1. Since 1995, the Department of Statistics has been compiling the Wholesale Trade Index (WTI) to measure the quarterly business performance of the wholesale trade sector. The index series consists of the Domestic WTI and Foreign WTI for measuring the wholesale sales in and outside of Singapore. The wholesale trade sector is an important sector in the distribution of merchandise. Wholesalers supply merchandise to manufacturers, commercial and institutional clients for use in production, or to other wholesalers and retailers for resale. Some wholesalers also perform related functions such as sorting, breaking bulk, packing and logistics.
2. The WTI is re-based at regular intervals to reflect changes in the structure of the wholesale trade sector. The coverage and weights are revised and methodology is also reviewed during the re-basing exercise. The WTI series compiled currently by the Department is based on year 2007 and the latest re-basing to year 2012 is the third re-basing of the series.
3. This information paper presents the re-basing of the WTI from reference year 2007 to reference year 2012. Details on the data sources, methodology adopted, formula for index compilation and the comparison of the re-based series and old series are provided in the paper. In addition, detailed weights for activities in the wholesale trade sector as well as the re-based series from 1Q2012 to 4Q2012 are appended in the Annexes.

## II What Does WTI Measure?

4. The Domestic WTI measures the quarterly wholesale sales within Singapore and the Foreign WTI measures the quarterly wholesale sales outside Singapore (namely domestic exports, re-exports, transhipment cargo and off-shore merchandise ${ }^{1}$ ).
5. The WTI indices are presented in both current prices and constant prices. The indices at current prices measure the changes of sales value which result from changes in both price and quantity. The indices at constant prices measure the changes in sales volume by removing the price effect.
6. For instance, Chart 1 shows the Foreign WTI of petroleum and petroleum products at current prices and constant prices. The index at current prices measures the changes of petroleum sales value from 1Q2009 to 4Q2012 and the changes were largely due to price changes. After removing price changes, the index at constant prices shows that the sales volume was generally stable during the period.

## Chart 1: Foreign WTI of Petroleum \& Petroleum Products (2012=100)



[^0]7. Seasonal effects are observed in some of the Domestic WTI and Foreign WTI series, due to intra-year periodic variations that repeat in the same quarter every year. For example, overall domestic wholesale sales are usually lower in the first quarter compared to other quarters of the same year. To better reflect the underlying trend, both Domestic WTI and Foreign WTI are seasonally adjusted to remove the seasonal effects.

## III Data Sources

8. The data used for the compilation of the WTI are primarily obtained from the Quarterly Wholesale Trade Survey (WTS). The WTS covers wholesale establishments in the two-digit division "46" of the Singapore Standard Industrial Classification 2010 (SSIC 2010). At the end of each reference quarter, questionnaires are sent to a sample of the wholesale establishments to collect their domestic wholesale sales and foreign wholesale sales for the quarter.

## IV Index Computation

9. The sales indices at current prices are computed from the sales value using the following formula:

$$
I_{0 n}=\sum_{i} W_{i o} \frac{V_{i n}}{V_{i 0}} \times 100
$$

where
$I_{0 n} \quad$ is the index of the overall wholesale trade sector for the current period $n$ compared to the base period 0 (the base year is 2012);
$V_{i n} \quad$ is the sales value of $\boldsymbol{i}^{\text {th }}$ industry during the current period $n$;
$V_{i 0} \quad$ is the sales value of $\boldsymbol{i}^{\text {th }}$ industry during the base period 0 ;
$W_{i} \quad$ is the normalised weight assigned to the $\boldsymbol{i}^{\text {th }}$ industry, i.e. its share in terms of wholesale sales with respect to the overall wholesale trade sector;
$\sum_{i} \quad$ is the summation of all industries in the wholesale trade sector.
10. In other words, the overall sales index at current prices is a weighted average of indices from detailed industry level. To derive the WTI index at detailed industry level, the quarterly wholesale sales for that industry is divided by the average quarterly wholesale sales for the same industry in 2012 (base year). The overall WTI is then computed by combining the sales indices of the detailed industries, using the weights to measure each industry's relative importance in the overall wholesale trade sector.
11. To derive the constant prices indices, the sales indices at current prices at detailed industry level are first deflated by appropriate price indices. These component indices at constant prices are then weighted and aggregated to derive the overall indices at constant prices.

## V The Re-based WTI Series

## Selection of the New Sample

12. WTS uses a stratified random sampling design to select over 700 establishments for the new sample. The sampling frame is obtained from the Department's Business Register which contains basic information of enterprises and establishments registered in Singapore. The data in the Business Register are primarily sourced from the registration records of the Accounting and Corporate Regulatory Authority (ACRA), which is the agency in charge of the registration of companies and businesses in Singapore.
13. The sampling frame was first stratified by industry group. Each industry group was further stratified by size of operating receipts into three size strata (large, medium and small). All establishments in the large size stratum were selected with certainty whereas establishments in the medium and small size strata were selected randomly. Lavallée-Hidiroglou (1988) algorithm was applied within each industry group to determine the size stratum boundaries and the optimal sample size for a required level of precision.

## Weighting Pattern

14. The weight for each industry reflects its relative importance in the overall wholesale trade sector. The weights for Domestic WTI and Foreign WTI are computed based on the domestic wholesale sales and foreign wholesale sales of the respective industries obtained from the Annual Survey of Wholesale Trade for reference year 2011.
15. Table 1 compares the old and new weights for Domestic WTI and Foreign WTI for WTI categories. The largest category is "Petroleum \& Petroleum Products" in both domestic and foreign WTI, with Singapore being a global oil trading hub. The share of petrol sales in domestic wholesale sales rose from 44.0 per cent in the 2007 -based series to 51.4 per cent in the 2012 -based series. Although foreign wholesale sales for petrol also rose during the same period, its share in the total foreign wholesale sales declined slightly from 45.4 per cent in the old series to 44.8 per cent in the re-based series, partly due to a rise in share of other categories such as "Metals, Timber, \& Construction Materials" and "General Wholesale Trade".

Table 1: Weighting Pattern of DWTI and FWTI in 2007- \& 2012-Based Series

|  |  | Domestic |  | Foreign |  |
| :--- | :--- | ---: | ---: | ---: | ---: |
|  |  | $2007=100$ | $2012=100$ | $2007=100$ | $2012=100$ |
| Total | $\mathbf{1 0 , 0 0 0}$ | $\mathbf{1 0 , 0 0 0}$ | $\mathbf{1 0 , 0 0 0}$ | $\mathbf{1 0 , 0 0 0}$ |  |
|  | Food, Beverages \& Tobacco | 407 | 380 | 374 | 405 |
|  | Petroleum \& Petroleum Products | 298 | 218 | 287 | 110 |
| 4 | Chemicals \& Chemical Products | 4,396 | 5,136 | 4,544 | 4,476 |
| 5 | Electronic Components | 406 | 351 | 513 | 492 |
| 6 | Industrial \& Construction Machinery | 839 | 442 | 1,084 | 529 |
| 7 | Telecommunications \& Computers | 285 | 345 | 257 | 227 |
| 8 | Metals, Timber \& Construction Materials* | 567 | 549 | 799 | 790 |
| 9 | General Wholesale Trade | 357 | 336 | 186 | 711 |
| 10 | Ship Chandlers \& Bunkering | 572 | 396 | 574 | 708 |
| 11 | Transport Equipment | 883 | 1039 | 229 | 234 |
| 12 | Other Wholesale Trade | 190 | 170 | 288 | 230 |

* Previously known as "Timber, Paints \& Construction Materials".

16. "Metals, Timber \& Construction Materials" and "General Wholesale Trade" were also among the largest categories in terms of turnover within the wholesale trade sector. Their weights in foreign wholesale sales increased from 1.9 per cent and 5.7 per cent respectively in the 2007-based series to 7.1 per cent in the 2012-based series.
17. In terms of domestic wholesale sales, the relative importance of "Ship Chandlers \& Bunkering" increased by 1.6 percentage points to 10.4 per cent in the 2012-based series. This was mainly because of a growth in the ship bunkering sector.
18. Conversely, the weights of "Electronic Components" in domestic and foreign wholesale sales declined by 4.0 percentage points and 5.5 percentage points respectively in the re-based series. The weights of "Household Equipment \& Furniture" also declined in both domestic and foreign wholesale sales in the 2012based series.

## VI Linking of Historical Series

19. To facilitate the time series analysis of the WTI series, the 2007-based old series was linked to the 2012-based new series using this approach:

Linked 2012-based index $=$ 2007-based index $\times$ Linking Coefficient
where the Linking Coefficient is the ratio of the average value of the 2012-based index in 2012 to the average value of the 2007-based index in 2012.

Example:

$$
\begin{array}{ll}
\text { Average value of the 2007-based index in } 2012 & =130.5 \\
\text { Average value of the 2012-based index in } 2012 & =100 \\
\text { Linking Coefficient } & =100 / 130.5 \\
2007 \text {-based index in 1Q2011 } & =118.3 \\
2012 \text {-based index in 1Q2011 } & =118.3 \times(100 / 130.5)=90.7
\end{array}
$$

## VII Comparison of Old and New Series

20. Chart 2 shows a comparison of the overall Domestic WTI and overall Foreign WTI of the 2007-based and 2012-based series at current prices from 1Q2012 to 4Q2012. The old and new series present similar trends in both domestic wholesale sales and foreign wholesale sales except for 4Q2012. The new series shows lower domestic wholesale sales and higher foreign wholesale sales in 4Q2012 compared to the old series.

## Chart 2: Wholesale Trade Index at Current Prices (2012=100)



## Dissemination

21. The 2012-based series will be released with effect from 1Q2013 report. The quarterly report is available at the SingStat website (http://www.singstat.gov.sg). The Domestic WTI and Foreign WTI are also published in the Monthly Digest of Statistics and Yearbook of Statistics. Subscribers to the Department's Singstat Time Series (STS) may download the historical data electronically.

Singapore Department of Statistics
May 2013

## References

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5. Singapore Standard Industrial Classification 2010, available at SingStat website (http://www.singstat.gov.sg/methodologies_and_standards/standards_and_classifi cations/industrial_classification/ssic2010.pdf)
6. Statistics Singapore Newsletter (March 2008): Improving Sampling Efficiency for the Annual Survey of Services, available at SingStat website (http://www.singstat.gov.sg/Publications/newsletter/archive/ssnmar2008.pdf).

## WEIGHTS OF WHOLESALE TRADE CATEGORIES

| $\begin{aligned} & \hline \text { SSIC } \\ & 2010 \\ & \hline \end{aligned}$ | Description of Activity | Total | Domestic | Foreign |
| :---: | :---: | :---: | :---: | :---: |
| 46 | Total Wholesale Trade | 10,000 | 10,000 | 10,000 |
|  | Total - Exclude Petroleum \& Petroleum Products | 5,407 | 4,864 | 5,524 |
|  | Food, Beverages \& Tobacco | 400 | 380 | 405 |
| 46301 | Fruits and vegetables | 10 | 48 | 1 |
| 46302 | Livestock, meat, poultry, eggs and seafood | 30 | 89 | 17 |
| 46303 | Cereals, sugar, oils, sauces and dairy products | 279 | 56 | 327 |
| 46304 | Confectionery and bakery products | 13 | 16 | 13 |
| 46305 | Ice-cream |  | 2 | * |
| 46306 | Health supplements | 5 | 12 | 4 |
| 46307 | Liquor and soft drinks | 33 | 65 | 27 |
| 46308 | Tobacco products | 13 | 39 | 8 |
| 46309 | Food, beverages and tobacco nec | 16 | 53 | 8 |
|  | Household Equipment \& Furniture | 129 | 218 | 110 |
| 46431 | Furniture (including mattresses, cushions) | 13 | 21 | 12 |
| 46432 | Furnishings (including curtains, carpets, wallpaper) | 3 | 11 | 1 |
| 46433 | Lighting and lighting accessories | 4 | 17 | 1 |
| 46434 | Crockery, cutlery and kitchen utensils | 2 | 8 | 1 |
| 46435 | Household electrical appliances and equipment (including household air-conditioners) | 29 | 26 | 30 |
| 46436 | Audio and video equipment except electrical and electronic components (e.g. radio and television sets, sound reproducing and recording equipment) | 74 | 125 | 63 |
| 46437 | Musical instruments and scores |  | 1 | * |
| 46439 | Furniture, home furnishings and other household equipment nec | 3 | 9 | 2 |
|  | Petroleum \& Petroleum Products | 4,593 | 5,136 | 4,476 |
| 46611 | Crude petroleum | 2,896 | 2,307 | 3,022 |
| 46612 | Mineral fuels and lubricants | 1,593 | 2,791 | 1,336 |
| 46619 | Solid, liquid and gaseous fuels and related products nec (e.g. bitumen) | 103 | 39 | 117 |
|  | Chemicals \& Chemical Products | 467 | 351 | 492 |
| 46641 | Basic industrial chemicals (except fertilizers) | 79 | 79 | 79 |
| 46642 | Chemical fertilizers | 32 | 3 | 39 |
| 46643 | Petrochemical products | 289 | 213 | 305 |
| 46649 | Chemicals and chemical products nec | 67 | 56 | 69 |
|  | Electronic Components | 513 | 442 | 529 |
| 46521 | Telecommunications equipment | 69 | 39 | 75 |
| 46522 | Electronic components | 445 | 403 | 453 |

## WEIGHTS OF WHOLESALE TRADE CATEGORIES

| $\begin{aligned} & \hline \text { SSIC } \\ & 2010 \end{aligned}$ | Description of Activity | Total | Domestic | Foreign |
| :---: | :---: | :---: | :---: | :---: |
|  | Industrial \& Construction Machinery | 248 | 345 | 227 |
| 46530 | Agricultural machinery, equipment and supplies | 2 | 1 | 3 |
| 46541 | Industrial machinery and equipment | 99 | 166 | 84 |
| 46542 | Construction equipment (e.g. concrete mixer) | 88 | 75 | 91 |
| 46543 | Lifts, escalators and industrial and office air-conditioning equipment | 5 | 17 | 2 |
| 46544 | Electrical and wiring accessories | 41 | 57 | 37 |
| 46549 | Industrial, agricultural, construction and related machinery and equipment nec | 13 | 30 | 10 |
|  | Telecommunications \& Computers | 747 | 549 | 790 |
| 46511 | Computer hardware and peripheral equipment | 611 | 352 | 667 |
| 46512 | Computer software (except games) | 49 | 29 | 53 |
| 46513 | Computer accessories (e.g. memory cards, computer cables) | 8 | 20 | 5 |
| 46523 | Pagers, handphones and other telecommunications apparatus (e.g. palmtops, smart watches, wearable computer and electronic books) | 36 | 108 | 20 |
| 46591 | Office machines and equipment (including accessories) | 44 | 40 | 45 |
|  | Metals, Timber \& Construction Materials | 645 | 336 | 711 |
| 46620 | Metals and metal ores except general hardware (e.g. steel pipes) | 573 | 144 | 665 |
| 46631 | Logs, sawn timber, plywood and related products | 23 | 36 | 20 |
| 46632 | General hardware (e.g. locks, hinges) | 14 | 57 | 5 |
| 46633 | Structural clay and concrete products (e.g. mosaic tiles, bricks) | 4 | 20 | 1 |
| 46634 | Paints (including varnishes and supplies) | 3 | 8 |  |
| 46635 | Glass | 2 | 2 | 2 |
| 46639 | Construction materials, hardware, plumbing and heating equipment and supplies nec (e.g. cement, sand) | 26 | 69 | 16 |
|  | General Wholesale Trade | 653 | 396 | 708 |
| 46900 | General wholesale trade (including general importers and exporters) | 653 | 396 | 708 |
|  | Ship Chandlers \& Bunkering | 376 | 1,039 | 234 |
| 46661 | Ship chandlers | 7 | 16 | 5 |
| 46662 | Ship bunkering | 369 | 1023 | 228 |
|  | Transport Equipment | 220 | 170 | 230 |
| 46551 | Marine equipment and accessories (including marine navigational equipment and radar) | 18 | 44 | 13 |
| 46552 | Aircraft equipment and supplies (including aeronautical equipment) | 8 | 12 | 7 |
| 46559 | Transport equipment except motor vehicles and motorcycles nec | 2 | * | 3 |
| 46561 | Motor vehicles except motorcycles and scooters | 17 | 54 | 9 |
| 46562 | Motorcycles and scooters | 6 | 1 | 7 |
| 46563 | Parts and accessories for vehicles | 168 | 57 | 192 |

## WEIGHTS OF WHOLESALE TRADE CATEGORIES

| $\begin{aligned} & \hline \text { SSIC } \\ & 2010 \\ & \hline \end{aligned}$ | Description of Activity | Total | Domestic | Foreign |
| :---: | :---: | :---: | :---: | :---: |
|  | Other Wholesale Trade | 1,009 | 638 | 1,088 |
| 46100 | Wholesale On a Fee or Contract Basis <br> Wholesale on a fee or contract basis (e.g. commission agents) |  | * | * |
|  | Agricultural Raw Materials and Live Animals except Tropical Produce |  |  |  |
| 46211 | Cut flowers and plants | 1 | 3 | * |
| 46212 | Aquarium fishes (including food and accessories) | 1 | 2 | 1 |
| 46213 | Pet birds and animals (including food and accessories) | 3 | 1 | 4 |
| 46219 | Agricultural raw materials and live animals except tropical produce nec | 274 | 31 | 327 |
|  | Tropical Produce |  |  |  |
| 46221 | Rubber (including rubber brokers) | 167 | 33 | 196 |
| 46222 | Pepper and other spices | 5 | 7 | 5 |
| 46223 | Coffee, cocoa and tea | 18 | 11 | 20 |
| 46224 | Coconut | * | 1 | * |
| 46225 | Palm oil | 83 | 21 | 97 |
| 46229 | Tropical produce nec | 7 | 2 | 8 |
|  | Textile, Clothing, Footwear and Leather Goods |  |  |  |
| 46411 | Textiles | 8 | 9 | 8 |
| 46412 | Wearing apparel for adults | 12 | 12 | 12 |
| 46413 | Children and infants' wear (including products and accessories for infants) | 1 | 4 | 1 |
| 46414 | Footwear | 4 | 7 | 3 |
| 46415 | Bags, luggage and travel accessories | 1 | 5 | * |
| 46416 | Sewing and clothing accessories (e.g. button, thread, lace, zip) |  | 1 | * |
|  | Personal Effects |  |  |  |
| 46421 | Jewellery | 22 | 53 | 15 |
| 46422 | Costume jewellery | * | 1 | * |
| 46423 | Watches and clocks | 14 | 46 | 7 |
| 46424 | Cosmetics and toiletries | 42 | 64 | 37 |
| 46429 | Personal effects nec | 1 | 2 | * |
|  | Sporting and Other Recreational Goods |  |  |  |
| 46441 | Sporting goods and equipment (including bicycles and healthcare equipment) | 7 | 10 | 6 |
| 46442 | Music and video recordings (e.g. record albums, compact discs, VCDs, DVDs) | 1 | 4 | * |
| 46443 | Toys and games | 1 | 6 | * |
| 46444 | Computer games (including electronic games and video game consoles) | 2 | 4 | 2 |
| 46449 | Sporting and other recreational goods nec | 1 | 2 | * |

## WEIGHTS OF WHOLESALE TRADE CATEGORIES

| $\begin{aligned} & \hline \text { SSIC } \\ & 2010 \\ & \hline \end{aligned}$ | Description of Activity | Total | Domestic | Foreign |
| :---: | :---: | :---: | :---: | :---: |
|  | Handicraft \& Fancy Goods | * | 1 |  |
| 46451 | Antiques and works of art | 1 | 6 | * |
| 46452 | Handicrafts and gifts | * | * | * |
| 46453 | Artificial flowers and plants | * | 1 | * |
| 46459 | Handicrafts and fancy goods nec |  |  |  |
|  | Medicinal and Pharmaceutical Products |  |  |  |
| 46461 | Medicinal and pharmaceutical products (Western) | 96 | 62 | 104 |
| 46462 | Medicine and herbs (other than Western) | 2 | 8 | * |
|  | Paper, Paper and Cellophane Products and Stationery |  |  |  |
| 46471 | Paper and paper products | 20 | 18 | 21 |
| 46472 | Packaging materials | 5 | 13 | 3 |
| 46473 | Stationery | 2 | 8 | * |
| 46474 | Books and magazines | 3 | 9 | 2 |
| 46479 | Paper, paper and cellophane products and stationery nec | 1 | 2 | * |
|  | Other Household Goods |  |  |  |
| 46491 | Optical equipment and supplies (excluding binoculars) | 7 | 8 | 7 |
| 46492 | Photographic equipment and supplies (including binoculars) | 5 | 12 | 4 |
| 46499 | Other household goods nec | * | 1 | * |
|  | Other Machinery \& Equipment |  |  |  |
| 46592 | Medical, professional, scientific and precision equipment | 35 | 54 | 31 |
| 46593 | Commercial food service equipment (e.g. hotel kitchen equipment) | 1 | 3 | 1 |
| 46594 | Service establishment equipment and supplies (e.g. beauty salon equipment) | * | 1 | * |
| 46595 | Security and fire-fighting equipment | 6 | 15 | 4 |
| 46599 | Other machinery and equipment nec | 10 | 22 | 7 |
|  | Other Intermediate Products, Waste and Scrap |  |  |  |
| 46651 | Scrap, junk and waste dealers | 18 | 14 | 19 |
| 46659 | Other intermediate products, waste and scrap nec | 2 | 5 | 1 |
|  | Specific Commodities nec |  |  |  |
| 46691 | Animal feed | 95 | 2 | 114 |
| 46692 | Leather and PVC materials | 1 | 1 | 1 |
| 46693 | Joss paper, joss sticks and other ceremonial products | * | 2 | * |
| 46694 | Rattan | * | * | * |
| 46695 | Industrial ice (dry ice) | * | * | * |
| 46699 | Other specific commodities nec | 21 | 29 | 19 |

[^1]
# TABLE 1 

DOMESTIC WHOLESALE TRADE INDEX
(2012 = 100)

|  | Total | Total (excluding petroleum) | Food, Beverages \& Tobacco | Household <br> Equipment \& Furniture | Petroleum \& Petroleum Products | Chemicals \& Chemical Products | Electronic Components | Industrial \& Construction Machinery | Telecommunications \& Computers | Metals, Timber \& Construction Materials | General Wholesale Trade | Ship Chandlers \& Bunkering | Transport <br> Equipment | Other Wholesale Trade |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Weights Period | 10,000 | 4,864 | 380 | 218 | 5,136 | 351 | 442 | 345 | 549 | 336 | 396 | 1,039 | 170 | 638 |
| At Current Prices |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2009 | 84.0 | 86.4 | 78.4 | 88.9 | 81.2 | 87.8 | 105.4 | 87.4 | 84.9 | 94.3 | 61.7 | 80.6 | 92.4 | 101.9 |
| 2010 | 91.5 | 97.5 | 84.8 | 96.0 | 84.3 | 99.6 | 120.9 | 94.2 | 95.1 | 96.7 | 91.6 | 85.4 | 94.9 | 111.4 |
| 2011 | 102.0 | 101.2 | 93.0 | 90.9 | 102.8 | 103.9 | 104.6 | 103.0 | 97.7 | 99.6 | 102.9 | 99.8 | 99.1 | 110.0 |
| 2012 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 2011 I | 97.2 | 99.1 | 90.2 | 90.7 | 95.0 | 106.9 | 110.1 | 95.7 | 93.7 | 90.3 | 104.3 | 92.1 | 95.4 | 108.9 |
| II | 104.0 | 102.5 | 89.8 | 91.9 | 105.9 | 115.0 | 104.2 | 106.0 | 92.0 | 110.2 | 105.5 | 99.4 | 103.8 | 110.2 |
| III | 103.0 | 100.1 | 93.6 | 88.2 | 106.5 | 99.8 | 105.1 | 100.3 | 95.0 | 96.8 | 104.5 | 100.1 | 98.7 | 106.8 |
| IV | 103.5 | 103.4 | 98.4 | 93.0 | 103.7 | 94.1 | 98.8 | 109.9 | 110.0 | 101.0 | 97.1 | 107.7 | 98.6 | 113.9 |
| 2012 I | 102.3 | 98.5 | 102.4 | 88.3 | 105.9 | 97.1 | 97.3 | 101.4 | 103.0 | 94.2 | 79.4 | 106.8 | 99.6 | 96.4 |
| II | 102.6 | 103.7 | 97.8 | 100.9 | 101.5 | 102.4 | 100.0 | 99.3 | 97.0 | 101.0 | 126.9 | 105.9 | 108.9 | 101.7 |
| III | 98.5 | 99.5 | 98.4 | 103.1 | 97.6 | 102.0 | 100.6 | 97.0 | 94.7 | 105.5 | 107.4 | 96.9 | 98.8 | 98.4 |
| IV | 96.6 | 98.3 | 101.5 | 107.7 | 95.0 | 98.5 | 102.1 | 102.4 | 105.3 | 99.4 | 86.4 | 90.4 | 92.7 | 103.6 |
| At Constant Prices |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2009 | 103.9 | 90.5 | 80.3 | 78.2 | 125.3 | 118.1 | 93.2 | 76.8 | 67.8 | 93.5 | 70.0 | 126.6 | 87.2 | 106.2 |
| 2010 | 104.0 | 100.0 | 85.6 | 87.8 | 110.4 | 118.9 | 114.0 | 87.2 | 81.9 | 95.3 | 99.7 | 111.7 | 94.2 | 112.9 |
| 2011 | 102.2 | 100.3 | 92.0 | 88.5 | 105.2 | 105.2 | 104.6 | 101.1 | 94.0 | 96.4 | 103.3 | 102.0 | 99.8 | 109.3 |
| 2012 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 2011 I | 99.2 | 97.9 | 89.8 | 82.7 | 101.4 | 111.6 | 108.4 | 91.5 | 85.7 | 87.2 | 105.9 | 98.6 | 95.6 | 108.4 |
| II | 103.2 | 101.2 | 89.1 | 90.4 | 106.4 | 114.5 | 104.3 | 105.3 | 89.5 | 106.3 | 105.5 | 99.6 | 104.7 | 109.8 |
| III | 104.4 | 100.6 | 93.0 | 88.6 | 110.4 | 101.3 | 107.4 | 102.1 | 94.2 | 93.8 | 106.3 | 102.9 | 100.5 | 106.6 |
| IV | 102.1 | 101.6 | 96.2 | 92.1 | 102.8 | 93.2 | 98.4 | 105.5 | 106.4 | 98.2 | 95.7 | 107.0 | 98.3 | 112.2 |
| 2012 I | 96.4 | 95.0 | 101.0 | 87.7 | 97.8 | 91.3 | 94.3 | 100.5 | 101.3 | 92.4 | 75.9 | 98.6 | 99.3 | 94.5 |
| II | 102.8 | 103.4 | 97.7 | 100.6 | 102.3 | 102.2 | 98.5 | 98.7 | 96.7 | 100.2 | 126.2 | 106.8 | 108.6 | 100.6 |
| III | 100.4 | 100.3 | 98.9 | 102.9 | 100.4 | 104.0 | 101.0 | 97.1 | 94.5 | 106.3 | 108.8 | 98.8 | 98.8 | 99.0 |
| IV | 100.4 | 101.3 | 102.4 | 108.8 | 99.5 | 102.5 | 106.2 | 103.8 | 107.5 | 101.0 | 89.2 | 95.8 | 93.3 | 105.8 |

# TABLE 2 

PERCENT CHANGE IN DOMESTIC WHOLESALE TRADE INDEX OVER PREVIOUS QUARTER
$(2012=100)$


# TABLE 3 

PERCENT CHANGE IN DOMESTIC WHOLESALE TRADE INDEX OVER CORRESPONDING PERIOD OF PREVIOUS YEAR
$(2012=100)$

|  | Total | Total (excluding petroleum) | Food, <br> Beverages \& Tobacco | Household Equipment \& Furniture | Petroleum \& Petroleum Products | Chemicals \& Chemical Products | Electronic Components | Industrial \& Construction Machinery | Telecommunications \& Computers | Metals, Timber \& Construction Materials | General Wholesale Trade | Ship Chandlers \& Bunkering | Transport Equipment | Other Wholesale Trade |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Weights <br> Period | 10,000 | 4,864 | 380 | 218 | 5,136 | 351 | 442 | 345 | 549 | 336 | 396 | 1,039 | 170 | 638 |
| At Current Prices |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2009 | -19.8 | -12.6 | 0.2 | 1.9 | -27.5 | -17.9 | -18.8 | -7.5 | 0.0 | -11.7 | -9.5 | -32.3 | -11.1 | -2.1 |
| 2010 | 8.9 | 12.9 | 8.1 | 8.0 | 3.8 | 13.4 | 14.7 | 7.9 | 12.0 | 2.6 | 48.5 | 5.9 | 2.7 | 9.4 |
| 2011 | 11.4 | 3.8 | 9.7 | -5.3 | 22.0 | 4.4 | -13.5 | 9.3 | 2.7 | 3.0 | 12.3 | 16.9 | 4.5 | -1.3 |
| 2012 | -1.9 | -1.2 | 7.5 | 10.0 | -2.7 | -3.8 | -4.4 | -2.9 | 2.4 | 0.4 | -2.8 | 0.2 | 0.9 | -9.1 |
| 2011 I | 7.2 | 1.4 | 9.6 | -0.2 | 15.6 | -3.2 | -7.4 | 6.4 | -1.2 | -0.1 | 8.7 | 4.1 | -3.3 | 0.2 |
| II | 12.4 | 3.7 | 13.3 | -1.1 | 24.5 | 17.1 | -16.1 | 11.0 | -2.8 | 5.6 | 11.9 | 13.4 | -1.2 | -2.1 |
| III | 18.2 | 5.4 | 12.2 | -6.7 | 37.0 | 7.8 | -14.5 | 6.0 | -1.7 | 1.6 | 23.8 | 20.9 | 9.5 | -0.4 |
| IV | 8.3 | 4.9 | 4.4 | -12.0 | 12.7 | -3.0 | -16.1 | 13.6 | 16.6 | 4.5 | 5.9 | 30.4 | 15.0 | -2.9 |
| 2012 I | 5.2 | -0.5 | 13.5 | -2.6 | 11.5 | -9.2 | -11.7 | 5.9 | 9.9 | 4.2 | -23.9 | 15.9 | 4.4 | -11.5 |
| II | -1.4 | 1.2 | 8.9 | 9.8 | -4.2 | -10.9 | -4.0 | -6.3 | 5.4 | -8.4 | 20.2 | 6.6 | 4.8 | -7.7 |
| III | -4.4 | -0.6 | 5.1 | 16.9 | -8.4 | 2.2 | -4.3 | -3.3 | -0.2 | 9.0 | 2.7 | -3.2 | 0.1 | -7.9 |
| IV | -6.7 | -4.9 | 3.1 | 15.8 | -8.4 | 4.7 | 3.4 | -6.9 | -4.3 | -1.6 | -11.1 | -16.1 | -5.9 | -9.1 |
| At Constant Prices |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2009 | 1.2 | -3.2 | -0.3 | -0.3 | 6.9 | 7.6 | -19.1 | -5.2 | 0.5 | -2.5 | 5.0 | -1.7 | -13.3 | -1.7 |
| 2010 | 0.0 | 10.4 | 6.7 | 12.4 | -11.9 | 0.6 | 22.3 | 13.6 | 20.7 | 1.9 | 42.3 | -11.8 | 8.0 | 6.3 |
| 2011 | -1.7 | 0.4 | 7.5 | 0.7 | -4.7 | -11.5 | -8.2 | 15.9 | 14.8 | 1.1 | 3.7 | -8.6 | 5.9 | -3.2 |
| 2012 | -2.2 | -0.3 | 8.7 | 13.0 | -5.0 | -4.9 | -4.4 | -1.1 | 6.4 | 3.8 | -3.2 | -2.0 | 0.2 | -8.5 |
| 2011 I | -2.6 | -1.3 | 7.9 | 0.0 | -4.6 | -14.2 | -0.9 | 9.8 | 7.7 | -2.9 | 2.3 | -13.1 | -0.3 | -2.6 |
| II | -0.8 | 0.9 | 11.5 | 6.7 | -3.2 | -1.3 | -9.4 | 18.9 | 12.6 | 3.9 | 3.8 | -12.0 | 0.7 | -3.2 |
| III | 2.0 | 1.7 | 10.4 | 2.7 | 2.4 | -11.9 | -7.8 | 17.9 | 12.5 | -0.1 | 13.2 | -10.0 | 11.5 | -2.0 |
| IV | -5.2 | 0.1 | 1.1 | -5.6 | -12.5 | -18.6 | -14.4 | 16.8 | 25.7 | 3.1 | -4.0 | 1.2 | 13.0 | -4.8 |
| 2012 I | -2.8 | -2.9 | 12.5 | 6.1 | -3.5 | -18.2 | -13.0 | 9.8 | 18.2 | 5.9 | -28.4 | 0.0 | 3.9 | -12.8 |
| II | -0.4 | 2.2 | 9.6 | 11.2 | -3.8 | -10.7 | -5.6 | -6.3 | 7.9 | -5.7 | 19.6 | 7.1 | 3.8 | -8.4 |
| III | -3.8 | -0.2 | 6.3 | 16.2 | -9.0 | $2.7$ | $-6.0$ | -4.9 | 0.4 | 13.4 | 2.4 | -3.9 | -1.7 | -7.1 |
| IV | -1.7 | -0.3 | 6.5 | 18.1 | -3.2 | 9.9 | 7.9 | -1.6 | 1.0 | 3.0 | -6.8 | -10.4 | -5.1 | -5.7 |

# TABLE 4 

FOREIGN WHOLESALE TRADE INDEX
$(2012=100)$

|  |  | Total | Total (excluding petroleum) | Food, <br> Beverages \& Tobacco | Household <br> Equipment \& Furniture | Petroleum \& Petroleum Products | Chemicals \& Chemical Products | Electronic Components | Industrial \& Construction Machinery | Telecommunications \& Computers | Metals, Timber \& Construction Materials | General Wholesale Trade | Ship Chandlers \& Bunkering | Transport Equipment | Other Wholesale Trade |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Period |  | 10,000 | 5,524 | 405 | 110 | 4,476 | 492 | 529 | 227 | 790 | 711 | 708 | 234 | 230 | 1,088 |
| At Current Prices |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2009 |  | 64.7 | 72.9 | 89.7 | 86.1 | 56.3 | 64.4 | 86.8 | 67.2 | 65.6 | 56.3 | 65.5 | 66.4 | 70.1 | 73.2 |
| 2010 |  | 80.1 | 87.0 | 93.5 | 106.4 | 73.0 | 82.4 | 94.4 | 86.8 | 77.5 | 81.0 | 81.1 | 82.3 | 85.6 | 91.3 |
| 2011 |  | 93.2 | 97.5 | 101.4 | 108.3 | 88.8 | 98.3 | 94.8 | 97.4 | 86.4 | 97.0 | 100.8 | 97.7 | 79.8 | 108.4 |
| 2012 |  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 2011 | I | 87.1 | 93.1 | 95.1 | 101.2 | 81.1 | 95.2 | 93.8 | 90.3 | 78.3 | 90.3 | 92.0 | 91.1 | 84.8 | 106.7 |
|  | II | 93.9 | 97.8 | 107.0 | 110.2 | 89.8 | 94.2 | 94.3 | 91.2 | 82.7 | 97.0 | 104.1 | 99.3 | 68.5 | 115.3 |
|  | III | 95.0 | 99.2 | 100.0 | 120.9 | 90.7 | 101.8 | 95.3 | 100.7 | 89.1 | 99.1 | 103.8 | 100.4 | 89.7 | 104.6 |
|  | IV | 96.7 | 99.8 | 103.5 | 100.8 | 93.5 | 102.1 | 95.7 | 107.3 | 95.5 | 101.7 | 103.2 | 100.0 | 76.4 | 106.8 |
| 2012 | I | 97.8 | 96.5 | 99.7 | 97.5 | 99.3 | 97.8 | 94.0 | 99.1 | 91.1 | 96.2 | 99.0 | 107.0 | 91.6 | 96.4 |
|  | II | 102.0 | 103.9 | 107.0 | 103.2 | 99.5 | 100.5 | 98.6 | 107.7 | 105.2 | 104.4 | 103.8 | 108.7 | 103.1 | 104.2 |
|  | III | 98.6 | 98.9 | 97.3 | 101.9 | 98.2 | 102.9 | 102.4 | 101.2 | 92.2 | 98.9 | 101.7 | 95.4 | 103.4 | 98.2 |
|  | IV | 101.7 | 100.7 | 96.0 | 97.5 | 102.9 | 98.8 | 105.0 | 92.1 | 111.4 | 100.5 | 95.5 | 88.8 | 101.9 | 101.2 |
| At Constant Prices |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2009 |  | 77.9 | 70.9 | 95.9 | 70.4 | 88.3 | 85.0 | 77.1 | 56.3 | 48.7 | 57.9 | 67.2 | 103.8 | 64.8 | 84.9 |
| 2010 |  | 87.9 | 82.7 | 98.1 | 95.3 | 95.6 | 97.3 | 87.2 | 83.9 | 62.7 | 78.2 | 82.2 | 107.3 | 82.1 | 86.1 |
| 2011 |  | 91.7 | 92.4 | 101.4 | 103.3 | 90.6 | 99.2 | 91.4 | 98.3 | 83.8 | 89.6 | 99.7 | 99.4 | 80.1 | 92.2 |
| 2012 |  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 2011 | I | 86.1 | 86.1 | 95.3 | 93.5 | 86.2 | 99.5 | 88.9 | 91.5 | 71.6 | 80.2 | 91.1 | 97.6 | 84.0 | 86.2 |
|  | II | 90.9 | 91.6 | 107.6 | 105.7 | 89.7 | 93.0 | 90.7 | 93.2 | 80.7 | 87.2 | 102.3 | 98.1 | 68.5 | 96.1 |
|  | III | 95.3 | 96.1 | 100.4 | 117.9 | 94.3 | 103.5 | 94.2 | 102.5 | 88.8 | 93.0 | 104.5 | 102.9 | 91.5 | 89.5 |
|  | IV | 94.4 | 95.9 | 102.2 | 96.0 | 92.2 | 100.8 | 91.8 | 106.1 | 93.8 | 98.2 | 100.9 | 99.0 | 76.4 | 97.0 |
| 2012 | I | 92.5 | 92.9 | 97.7 | 95.0 | 92.0 | 92.9 | 92.0 | 98.8 | 86.8 | 90.3 | 95.9 | 99.9 | 90.7 | 93.0 |
|  | II | 101.3 | 102.3 | 105.2 | 102.3 | 100.0 | 99.8 | 95.9 | 107.3 | 102.1 | 104.1 | 102.5 | 108.9 | 102.7 | 101.8 |
|  | III | 100.9 | 100.4 | 98.7 | 102.8 | 101.4 | 104.5 | 103.2 | 101.2 | 92.9 | 102.1 | 102.8 | 97.2 | 103.5 | 100.3 |
|  | IV | 105.4 | 104.4 | 98.4 | 99.8 | 106.6 | 102.9 | 108.8 | 92.7 | 118.2 | 103.4 | 98.8 | 94.0 | 103.1 | 104.9 |

# TABLE 5 

PERCENT CHANGE IN FOREIGN WHOLESALE TRADE INDEX OVER PREVIOUS QUARTER
(2012 = 100)


# TABLE 6 

PERCENT CHANGE IN FOREIGN WHOLESALE TRADE INDEX OVER CORRESPONDING PERIOD OF PREVIOUS YEAR
$(2012=100)$

|  | Total | Total (excluding petroleum) | Food, Beverages \& Tobacco | Household <br> Equipment \& Furniture | Petroleum \& Petroleum Products | Chemicals \& Chemical Products | Electronic Components | Industrial \& Construction Machinery | Telecommunications \& Computers | Metals, Timber \& Construction Materials | General Wholesale Trade | Ship Chandlers \& Bunkering | Transport <br> Equipment | Other Wholesale Trade |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Weights <br> Period | 10,000 | 5,524 | 405 | 110 | 4,476 | 492 | 529 | 227 | 790 | 711 | 708 | 234 | 230 | 1,088 |
| At Current Prices |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2009 | -23.0 | -16.2 | -0.1 | -20.7 | -30.5 | -23.0 | -15.3 | -25.0 | -5.3 | -21.7 | -26.7 | -26.3 | -14.4 | -16.8 |
| 2010 | 23.8 | 19.4 | 4.3 | 23.7 | 29.6 | 27.8 | 8.7 | 29.2 | 18.1 | 43.7 | 23.8 | 23.9 | 22.1 | 24.7 |
| 2011 | 16.4 | 12.1 | 8.4 | 1.7 | 21.6 | 19.4 | 0.5 | 12.2 | 11.5 | 19.9 | 24.2 | 18.8 | -6.7 | 18.6 |
| 2012 | 7.3 | 2.6 | -1.4 | -7.6 | 12.6 | 1.7 | 5.5 | 2.7 | 15.7 | 3.1 | -0.8 | 2.4 | 25.2 | -7.7 |
| 2011 I | 17.1 | 15.6 | 13.7 | 9.2 | 18.9 | 28.8 | 4.7 | 16.0 | 5.3 | 38.4 | 15.0 | 13.3 | 1.3 | 31.7 |
| II | 15.4 | 12.7 | 8.8 | 3.3 | 18.5 | 18.8 | -2.3 | 6.7 | 9.0 | 12.7 | 29.2 | 23.0 | -16.7 | 27.7 |
| III | 19.0 | 11.5 | 13.3 | 4.4 | 28.7 | 22.4 | -4.4 | 9.8 | 14.1 | 13.1 | 33.2 | 17.9 | 4.8 | 8.3 |
| IV | 14.1 | 8.9 | -0.3 | -8.8 | 20.5 | 9.6 | 4.5 | 16.4 | 16.8 | 19.9 | 20.0 | 20.9 | -15.7 | 9.7 |
| 2012 I | 12.2 | 3.7 | 4.9 | -3.6 | 22.6 | 2.7 | 0.2 | 9.7 | 16.4 | 6.6 | 7.6 | 17.6 | 8.0 | -9.6 |
| II | 8.6 | 6.2 | 0.0 | -6.4 | 10.8 | 6.7 | 4.5 | 18.1 | 27.2 | 7.6 | -0.3 | 9.5 | 50.6 | -9.6 |
| III | 3.8 | -0.3 | -2.8 | -15.7 | 8.3 | 1.1 | 7.4 | 0.5 | 3.5 | -0.2 | -2.1 | -4.9 | 15.3 | -6.1 |
| IV | 5.1 | 0.8 | -7.2 | -3.3 | 10.0 | -3.2 | 9.7 | -14.2 | 16.7 | -1.2 | -7.4 | -11.2 | 33.4 | -5.3 |
| At Constant Prices |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2009 | -3.5 | -9.7 | -2.5 | -17.7 | 5.1 | 1.1 | -16.6 | -23.4 | -2.3 | -10.3 | -19.7 | 8.7 | -21.1 | -4.9 |
| 2010 | 12.8 | 16.6 | 2.3 | 35.3 | 8.3 | 14.4 | 13.2 | 49.1 | 28.7 | 35.1 | 22.2 | 3.4 | 26.7 | 1.4 |
| 2011 | 4.3 | 11.8 | 3.4 | 8.4 | -5.2 | 2.0 | 4.8 | 17.1 | 33.6 | 14.6 | 21.3 | -7.4 | -2.4 | 7.1 |
| 2012 | 9.1 | 8.2 | -1.3 | -3.2 | 10.4 | 0.8 | 9.4 | 1.7 | 19.4 | 11.6 | 0.3 | 0.6 | 24.8 | 8.4 |
| 2011 I | 6.0 | 13.4 | 7.0 | 16.5 | -3.2 | 14.2 | 9.7 | 27.1 | 24.2 | 23.3 | 13.6 | -7.4 | 7.6 | 9.5 |
| II | 3.2 | 12.3 | 3.6 | 11.3 | -8.0 | 0.7 | 2.7 | 14.1 | 36.7 | 3.1 | 26.9 | -5.6 | -13.2 | 12.4 |
| III | 5.7 | 12.5 | 9.2 | 13.2 | -3.2 | 2.4 | 1.9 | 13.9 | 41.7 | 9.6 | 31.1 | -10.8 | 10.4 | -3.9 |
| IV | 2.5 | 9.3 | -4.9 | -5.6 | -6.4 | -7.2 | 5.4 | 15.2 | 31.7 | 25.2 | 14.5 | -5.3 | -13.6 | 11.7 |
| 2012 I | 7.4 | 7.9 | 2.6 | 1.7 | 6.7 | -6.7 | 3.5 | 8.1 | 21.2 | 12.6 | 5.3 | 2.3 | 7.9 | 7.9 |
| II | 11.5 | 11.7 | -2.2 | -3.2 | 11.5 | 7.3 | 5.8 | 15.2 | 26.5 | 19.5 | 0.2 | 11.1 | 49.9 | 5.9 |
| III | 5.8 | 4.5 | -1.8 | -12.8 | 7.5 | 1.0 | 9.6 | -1.3 | 4.6 | 9.8 | -1.7 | -5.5 | 13.2 | 12.1 |
| IV | 11.6 | 8.8 | -3.7 | 3.9 | 15.6 | 2.1 | 18.5 | -12.6 | 25.9 | 5.3 | -2.1 | -5.1 | 34.9 | 8.1 |

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|  |  | $(65) 6332-7738$ (overseas callers) |

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[^0]:    ${ }^{1}$ Transhipment cargo refers to goods that are moved across Singapore in the course of transportation to another country. Off-shore merchandise refers to goods that are billed, transacted or brokered in Singapore, but shipped directly from the source to destination without entering Singapore at all.

[^1]:    * Weight is insignificant, less than 1.

