## PURCHASING MANAGERS' INDEX

A MONTHLY PUBLICATION

## MAY 2017 REPORT



## SURVEY MANAGEMENT DIVISION

 STATISTICS DEPARTMENTCENTRAL BANK OF NIGERIA, ABUJA

## PURCHASING MANAGERS' INDEX (PMI) MAY 2017 REPORT

### 1.0 Introduction

The May 2017 PMI, conducted by the Statistics Department of the Central Bank of Nigeria, was carried out during the period May $8-12$, 2017. The respondents were purchasing and supply executives of manufacturing and non-manufacturing organizations in 13 locations in Nigeria (2 states in each geopolitical zone and the Federal Capital Territory, Fig. 1). A total of 1,740 responses were received from a sample of 1,950 respondents, representing a response rate of 89.2 per cent.

The Bank makes no representation regarding the individual companies, other than the data they provided. The data contained herein further provides input for policy decisions.


Fig. 1: Map of Nigeria showing the survey locations

### 1.1 Data and Method of Presentation

The Manufacturing and Non-Manufacturing PMI Report on businesses is based on data compiled from purchasing and supply executives. Survey responses indicate whether there is change or no change in the level of business activities in the current month compared with the previous month. For each of the indicators measured, this report shows the diffusion index of the responses. The diffusion index is computed as the percentage of positive responses plus one-half of the percentage of those reporting no change. The composite PMI is then computed as the weighted average of five diffusion indices for manufacturing sector: production level, new orders, supplier delivery time, employment level and raw materials inventory, with assigned weights of $25 \%, 30 \%$, $15 \%, 10 \%$ and $20 \%$, respectively. The composite PMI for non-manufacturing sector is computed
from four diffusion indices: business activity, new orders, employment level and raw materials inventory, with equal weights of $25 \%$ each.

A composite PMI above 50 points indicates that the manufacturing/non-manufacturing economy is generally expanding, 50 points indicates no change and below 50 points indicates that it is generally declining. The sub-sectors reporting growth are listed in the order of highest to lowest growth. For the sub-sectors reporting contraction/decline, they are listed in the order of the highest to the lowest decline.

### 2.0 Manufacturing PMI Report

Production level, new orders and raw materials inventories growing at a faster rate; employment level recovering from contraction; and supplier delivery time moderating


Fig 2: Trends of the five major manufacturing sub-indices
The Manufacturing PMI stood at 52.5 index points in May 2017, indicating expansion in the manufacturing sector for the second consecutive month (Fig. 3 and Table 1). Ten of the 16 subsectors reported growth in the review month in the following order: primary metal; petroleum \& coal products; plastics \& rubber products; paper products; electrical equipment; appliances \& components; textile, apparel, leather \& footwear; cement; food, beverage \& tobacco products and chemical \& pharmaceutical products. The remaining 6 sub-sectors declined in the order: transportation equipment; nonmetallic mineral products; fabricated metal products; printing \& related support activities; furniture \& related products and computer \& electronic products.


Fig. 3: Trend of Manufacturing PMI
Table 1: Manufacturing at a Glance

| Index | Series Index* April | Series Index* May | Percentage Point Change | Direction |  | Trend** <br> (Months) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Composite PMI \1 | 51.1 | 52.5 | 1.4 | Growing | Faster | 2 |
| Production level | 58.5 | 58.7 | 0.2 | Growing | Faster | 3 |
| New orders | 50.1 | 50.5 | 0.4 | Growing | Faster | 5 |
| Supplier delivery time | 47.5 | 49.9 | 2.4 | Declining | Slower | 2 |
| Employment level | 46.6 | 50.7 | 4.1 | Growing | From Contraction | 1 |
| Raw materials/WIP Inventory | 50.6 | 50.8 | 0.2 | Growing | Faster | 2 |
| New Export Orders | 37.7 | 37.6 | -0.1 | Declining | Faster | 27 |
| Output Prices | 65.1 | 61.3 | -3.8 | Growing | Slower | 17 |
| Input Prices | 69.2 | 68.4 | -0.8 | Growing | Slower | 35 |
| Quantity of Purchases | 45.1 | 46.1 | 1.0 | Declining | Slower | 2 |
| Outstanding Business/Backlog of Work | 40.0 | 42.3 | 2.3 | Declining | Slower | 27 |
| Stock of Finished Goods | 46.4 | 51.8 | 5.4 | Growing | From Contraction | 1 |
| Manufacturing Sub-Sectors |  |  |  |  |  |  |
| Appliances \& components | 63.4 | 56.1 | -7.3 | Growing | Slower | 6 |
| Cement | 52.1 | 54.7 | 2.6 | Growing | Faster | 2 |
| Chemical \& pharmaceutical products | 53.1 | 53.0 | -0.1 | Growing | Slower | 2 |
| Computer \& electronic products | 42.8 | 49.7 | 6.9 | Declining | Slower | 4 |
| Electrical equipment | 51.0 | 56.3 | 5.3 | Growing | Faster | 2 |
| Fabricated metal products | 48.0 | 48.8 | 0.8 | Declining | Slower | 5 |
| Food, beverage \& tobacco products | 55.9 | 54.4 | -1.5 | Growing | Slower | 8 |
| Furniture \& related products | 51.0 | 49.0 | -2.0 | Declining | From Expansion | 1 |
| Nonmetallic mineral products | 52.1 | 48.1 | -4.0 | Declining | From Expansion | 1 |
| Paper products | 39.8 | 57.7 | 17.9 | Growing | From Contraction | 1 |
| Petroleum \& coal products | 48.9 | 62.1 | 13.2 | Growing | From Contraction | 1 |
| Plastics \& rubber products | 50.6 | 60.7 | 10.1 | Growing | Faster | 2 |
| Primary metal | 42.7 | 64.5 | 21.8 | Growing | From Contraction | 1 |
| Printing \& related support activities | 51.2 | 48.9 | -2.3 | Declining | From Expansion | 1 |
| Textile, apparel, leather \& footwear | 54.1 | 54.9 | 0.8 | Growing | Faster | 3 |
| Transportation equipment | 49.3 | 45.0 | -4.3 | Declining | Faster | 11 |

$\backslash 1$ The composite PMI is a weighted average of the following diffusion indices: production level, new orders, supplier deliveries, employment level and inventories. The weights assigned to these variables are $25 \%, 30 \%, 15 \%, 10 \%$ and $20 \%$ respectively.
${ }^{*}$ The series index is a diffusion index defined as a weighted percentage of high, same and low with $1.0,0.5$ and 0.0 as weights respectively.
** Number of month moving in current direction

### 2.1 Production Level

The production level index for manufacturing sector expanded for the third consecutive month in May 2017. The index at 58.7 points indicated an increase in production at a faster rate, when compared to the 58.5 points in the previous month. Fifteen manufacturing sub-sectors recorded increase in production level during the review month in the following order: primary metal; electrical equipment; petroleum \& coal products; cement; chemical \& pharmaceutical products; plastics \& rubber products; computer \& electronic products; food, beverage \& tobacco products; textile, apparel, leather \& footwear; appliances \& components; paper products; nonmetallic mineral products; furniture \& related products; printing \& related support activities and fabricated metal products, while the transportation equipment sub-sector recorded decline in production (Table 2).

Table 2: Production at a Glance

| Index | Series <br> Index <br> April | Series <br> Index <br> May | Percentage <br> Point <br> Change | Direction | Rate <br> of <br> Change | Trend <br> (Months) |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| PRODUCTION PMI | 58.5 | 58.7 | 0.2 | Growing | Faster | 3 |
| Appliances \& components | 63.6 | 57.1 | -6.5 | Growing | Slower | 5 |
| Cement | 61.5 | 67.3 | 5.8 | Growing | Faster | 3 |
| Chemical \& pharmaceutical products | 68.0 | 64.7 | -3.3 | Growing | Slower | 2 |
| Computer \& electronic products | 55.6 | 62.5 | 6.9 | Growing | Faster | 3 |
| Electrical equipment | 65.4 | 71.9 | 6.5 | Growing | Faster | 2 |
| Fabricated metal products | 51.6 | 51.5 | -0.1 | Growing | Slower | 2 |
| Food, beverage \& tobacco products | 64.2 | 62.4 | -1.8 | Growing | Slower | 8 |
| Furniture \& related products | 56.8 | 54.5 | -2.3 | Growing | Slower | 3 |
| Nonmetallic mineral products | 61.4 | 55.8 | -5.6 | Growing | Slower | 2 |
| Paper products | 41.7 | 56.7 | 15.0 | Growing | From Contraction | 1 |
| Petroleum \& coal products | 50.0 | 69.2 | 19.2 | Growing | From No Change | 1 |
| Plastics \& rubber products | 56.6 | 63.9 | 7.3 | Growing | Faster | 2 |
| Primary metal | 28.6 | 76.7 | 48.1 | Growing | From Contraction | 1 |
| Printing \& related support activities | 59.3 | 51.8 | -7.5 | Growing | Slower | 2 |
| Textile, apparel, leather \& footwear | 62.0 | 62.4 | 0.4 | Growing | Faster | 3 |
| Transportation equipment | 64.3 | 45.5 | -18.8 | Declining | From Expansion | 1 |

### 2.2 New Orders

New orders index for the month of May stood at 50.5 points, indicating a faster growth in new orders for the second consecutive month. Eight sub-sectors reported growth in new orders in the following order: appliances \& components; plastics \& rubber products; textile, apparel, leather \& footwear; paper products; chemical \& pharmaceutical products; food, beverage \& tobacco products; petroleum \& coal products and primary metal. The cement and electrical equipment subsectors remained unchanged, while the printing \& related support activities; nonmetallic mineral products; computer \& electronic products; transportation equipment; fabricated metal products and furniture \& related products sub-sectors recorded declines (Table 3).

Table 3: New Orders at a Glance

| Index | Series <br> Index <br> April | Series <br> Index <br> May | Percentage <br> Point <br> Change | Direction | Rate <br> of <br> Change | Trend <br> (Months) |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| NEW ORDERS PMI | 50.1 | 50.5 | 0.4 | Growing | Faster | 2 |
| Appliances \& components | 81.8 | 64.3 | -17.5 | Growing | Slower | 5 |
| Cement | 55.8 | 50.0 | -5.8 | No Chang | From Expansion | 2 |
| Chemical \& pharmaceutical products | 49.0 | 54.9 | 5.9 | Growing | From Contraction | 1 |
| Computer \& electronic products | 33.3 | 43.8 | 10.5 | Declining | Slower | 4 |
| Electrical equipment | 42.3 | 50.0 | 7.7 | No Chang From Contraction | 6 |  |
| Fabricated metal products | 48.4 | 47.1 | -1.3 | Declining | Faster | 5 |
| Food, beverage \& tobacco products | 57.5 | 54.3 | -3.2 | Growing | Slower | 8 |
| Furniture \& related products | 47.4 | 48.0 | 0.6 | Declining | Slower | 17 |
| Nonmetallic mineral products | 51.1 | 43.0 | -8.1 | Declining | From Expansion | 1 |
| Paper products | 28.3 | 55.0 | 26.7 | Growing | From Contraction | 1 |
| Petroleum \& coal products | 38.9 | 53.8 | 14.9 | Growing | From Contraction | 1 |
| Plastics \& rubber products | 50.0 | 59.7 | 9.7 | Growing | From No Change | 1 |
| Primary metal | 39.3 | 53.3 | 14.0 | Growing | From Contraction | 1 |
| Printing \& related support activities | 52.0 | 42.4 | -9.6 | Declining | From Expansion | 1 |
| Textile, apparel, leather \& footwear | 58.5 | 55.9 | -2.6 | Growing | Slower | 3 |
| Transportation equipment | 50.0 | 45.5 | -4.5 | Declining | From No Change | 1 |

### 2.3 Supplier Delivery Time

At 49.9 index points, the supplier delivery time index for the manufacturing sector declined for the second consecutive month, though at a slower rate, when compared to the previous month. Eight sub-sectors recorded delayed suppliers' delivery time in the following order: appliances \& components; transportation equipment; fabricated metal products; nonmetallic mineral products; cement; furniture \& related products; chemical \& pharmaceutical products and food, beverage \& tobacco products. The remaining 8 sub-sectors recorded improvement in delivery time in May 2017 in the following order: primary metal; petroleum \& coal products; paper products; printing \& related support activities; computer \& electronic products; textile, apparel, leather \& footwear; electrical equipment and plastics \& rubber products (Table 4).

Table 4: Supplier Delivery Time at a Glance

| Index | Series <br> Index <br> April | Series <br> Index <br> May | Percentage Point Change | Direction | Rate of Change | Trend (Months) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SUPPLIER DELIVERY TIME PMI | 47.5 | 49.9 | 2.4 | Declining | Slower | 2 |
| Appliances \& components | 50.0 | 35.7 | -14.3 | Declining | From No Change | 1 |
| Cement | 46.2 | 46.2 | 0.0 | Declining | Flat | 6 |
| Chemical \& pharmaceutical products | 49.0 | 47.1 | -1.9 | Declining | Faster | 2 |
| Computer \& electronic products | 55.6 | 56.3 | 0.7 | Growing | Faster | 4 |
| Electrical equipment | 61.5 | 53.1 | -8.4 | Growing | Slower | 5 |
| Fabricated metal products | 46.9 | 42.2 | -4.7 | Declining | Faster | 2 |
| Food, beverage \& tobacco products | 49.1 | 48.1 | -1.0 | Declining | Faster | 2 |
| Furniture \& related products | 46.8 | 46.4 | -0.4 | Declining | Faster | 3 |
| Nonmetallic mineral products | 48.9 | 44.2 | -4.7 | Declining | Faster | 6 |
| Paper products | 48.3 | 60.0 | 11.7 | Growing | From Contraction | 1 |
| Petroleum \& coal products | 61.1 | 65.4 | 4.3 | Growing | Faster | 2 |
| Plastics \& rubber products | 50.0 | 52.8 | 2.8 | Growing | From No Change | 1 |
| Primary metal | 53.6 | 73.3 | 19.7 | Growing | Faster | 3 |
| Printing \& related support activities | 45.3 | 56.5 | 11.2 | Growing | From Contraction | 1 |
| Textile, apparel, leather \& footwear | 43.5 | 53.8 | 10.3 | Growing | From Contraction | 1 |
| Transportation equipment | 21.4 | 40.9 | 19.5 | Declining | Slower | 2 |

### 2.4 Employment Level

Employment level index in May 2017 stood at 50.7 points, indicating growth in employment level after twenty-six consecutive month of contraction in employment. Of the 16 sub-sectors, 7 recorded growth in employment in the following order: primary metal; plastics \& rubber products; petroleum \& coal products; paper products; appliances \& components; cement and fabricated metal products. The electrical equipment and textile, apparel, leather \& footwear remained unchanged, while the remaining 7 sub sectors recorded contraction in employment in the following order: computer \& electronic products; transportation equipment; chemical \& pharmaceutical products; nonmetallic mineral products; food, beverage \& tobacco products; printing \& related support activities and furniture \& related products (Table 5).

Table 5: Employment Level at a Glance

| Index | Series <br> Index <br> April | Series <br> Index <br> May | Percentage <br> Point <br> Change | Direction | Rate |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| Trend |  |  |  |  |  |
| (Months) |  |  |  |  |  |

### 2.5 Raw Materials Inventory

At 50.8 points, the raw materials inventory index grew for the second consecutive month. The index grew at a faster rate relative to its level in April 2017. Of the 16 sub-sectors, 10 recorded growth in raw materials inventories in the order: petroleum \& coal products; plastics \& rubber products; paper products; transportation equipment; appliances \& components; primary metal; food, beverage \& tobacco products; nonmetallic mineral products; electrical equipment and cement. The computer \& electronic products, fabricated metal products, and printing \& related support activities sub-sectors remained unchanged, while the furniture \& related products; chemical \& pharmaceutical products and textile, apparel, leather \& footwear recorded lower inventories in May 2017 (Table 6).

Table 6: Raw Materials Inventories at a Glance

| Index | Series <br> Index <br> April | Series <br> Index <br> May | Percentage <br> Point <br> Change | Direction | Rate of Change | Trend (Months) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| RAW MATERIALS INVENTORIES PMI | 50.6 | 50.8 | 0.2 | Growing | Faster | 2 |
| Appliances \& components | 54.5 | 57.1 | 2.6 | Growing | Faster | 6 |
| Cement | 42.3 | 51.9 | 9.6 | Growing | From Contraction | 1 |
| Chemical \& pharmaceutical products | 47.0 | 45.1 | -1.9 | Declining | Faster | 4 |
| Computer \& electronic products | 50.0 | 50.0 | 0.0 | No Change | Flat | 2 |
| Electrical equipment | 57.7 | 53.1 | -4.6 | Growing | Slower | 2 |
| Fabricated metal products | 47.4 | 50.0 | 2.6 | No Change | From Contraction | 2 |
| Food, beverage \& tobacco products | 56.2 | 55.8 | -0.4 | Growing | Slower | 8 |
| Furniture \& related products | 54.7 | 41.9 | -12.8 | Declining | From Expansion | 1 |
| Nonmetallic mineral products | 50.0 | 53.5 | 3.5 | Growing | From No Change | 1 |
| Paper products | 40.0 | 60.0 | 20.0 | Growing | From Contraction | 1 |
| Petroleum \& coal products | 66.7 | 65.4 | -1.3 | Growing | Slower | 2 |
| Plastics \& rubber products | 44.7 | 63.9 | 19.2 | Growing | From Contraction | 1 |
| Primary metal | 50.0 | 56.7 | 6.7 | Growing | From No Change | 1 |
| Printing \& related support activities | 47.3 | 50.0 | 2.7 | No Change | From Contraction | 18 |
| Textile, apparel, leather \& footwear | 53.0 | 45.1 | -7.9 | Declining | From Expansion | 1 |
| Transportation equipment | 50.0 | 59.1 | 9.1 | Growing | From No Change | 1 |

### 3.0 Non-Manufacturing PMI Report

Business activity and new orders growing at a faster rate; employment level and raw materials inventories growing from contraction in May 2017


Fig 4: Trends of the major non-manufacturing sub-indices

The composite PMI for the non-manufacturing sector grew to 52.7 in May 2017 after 16 consecutive months of contraction. Of the 18 non-manufacturing sub-sectors, 10 recorded growth in the following order: agriculture; transportation \& warehousing; educational services; electricity, gas, steam \& air conditioning supply; utilities; information \& communication; water supply, sewage \& waste management; accommodation \& food services; health care \& social assistance; and finance \& insurance. The remaining 8 sub-sectors recorded contraction in the order: construction; professional, scientific, \& technical services; public administration; management of companies; arts, entertainment \& recreation; real estate rental \& leasing; repair, maintenance/washing of motor vehicles; and wholesale/retail trade (Table 7 and Fig. 4).

Table 7: Non-Manufacturing at a Glance

|  | Series <br> Index | Series <br> Index <br> April | Percentage <br> May |  | Rate <br> Change | Direction |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | | Trend |
| :---: |
| Change |$\quad$| (Months) |
| :---: |


| Non-manufacturing sub-sectors |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| Accommodation \& food services | 48.3 | 52.7 | 4.4 | Growing | From Contraction | 1 |
| Agriculture | 61.6 | 66.7 | 5.1 | Growing | Faster | 12 |
| Arts, entertainment \& recreation | 43.2 | 48.2 | 5.0 | Declining | Slower | 4 |
| Construction | 38.0 | 42.3 | 4.3 | Declining | Slower | 24 |
| Educational services | 58.1 | 59.8 | 1.7 | Growing | Faster | 6 |
| Electricty, gas, steam \& air conditioning supply | 53.4 | 59.1 | 5.7 | Growing | Faster | 3 |
| Finance \& insurance | 55.1 | 50.2 | -4.9 | Growing | Slower | 3 |
| Heaath care \& social assistance | 46.7 | 52.7 | 6.0 | Growing | From Contraction | 1 |
| Information \& communication | 52.4 | 56.3 | 3.9 | Growing | Faster | 2 |
| Management of companies | 33.3 | 47.9 | 14.6 | Declining | Slower | 3 |
| Professional, scientific, \& technical services | 42.9 | 44.2 | 1.3 | Declining | Slower | 27 |
| Public administration | 52.1 | 47.5 | -4.6 | Declining | From Expansion | 1 |
| Real estate rental \& leasing | 52.9 | 48.8 | -4.1 | Declining | From Expansion | 1 |
| Repair, maintenance/washing of motor vehicles | 47.2 | 49.1 | 1.9 | Declining | Slower | 17 |
| Transportation \& warehousing | 55.4 | 64.4 | 9.0 | Growing | Faster | 3 |
| Utilitites | 60.1 | 57.5 | -2.6 | Growing | Slower | 2 |
| Water supply, sewage \& waste management | 51.7 | 55.0 | 3.3 | Growing | Faster | 3 |
| Wholesale/Retail trade | 45.8 | 49.4 | 3.6 | Declining | Slower | 17 |

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Fig. 5: Trend of Non-Manufacturing PMI

### 3.1 Business Activity

The business activity index rose to 56.2 points in May 2017 for the second consecutive month. The index grew at a faster rate, when compared to its level in the previous month. Fourteen sub-sectors recorded growth in the following order: agriculture; transportation \& warehousing; electricity, gas, steam \& air conditioning supply; utilities; educational services; information \& communication; health care \& social assistance; water supply, sewage \& waste management; accommodation \& food services; public administration; finance \& insurance; real estate rental \& leasing; wholesale/retail trade; and repair, maintenance/washing of motor vehicles. The management of companies sub-sector remained unchanged, while the remaining 3 sub-sectors recorded growth in the order: arts, entertainment \& recreation; professional, scientific, \& technical services; and construction (Table 8).

Table 8: Business Activity at a Glance

| Index | Series <br> Index <br> April | Series <br> Index <br> May | Percentage Point Change | Direction | Rate of Change | Trend <br> (Months) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| BUSINESS ACTIVITY PMI | 53.3 | 56.2 | 2.9 | Growing | Faster | 2 |
| Accommodation \& food services | 48.6 | 55.3 | 6.7 | Growing | From Contraction | 1 |
| Agriculture | 70.4 | 73.2 | 2.8 | Growing | Faster | 12 |
| Arts, entertainment \& recreation | 39.4 | 44.1 | 4.7 | Declining | Slower | 4 |
| Construction | 41.0 | 47.1 | 6.1 | Declining | Slower | 15 |
| Educational services | 61.3 | 60.2 | -1.1 | Growing | Slower | 6 |
| Electricity, gas, steam \& air conditioning supply | 57.8 | 69.5 | 11.7 | Growing | Faster | 3 |
| Finance \& insurance | 60.0 | 53.9 | -6.1 | Growing | Slower | 2 |
| Health care \& social assistance | 53.1 | 58.9 | 5.8 | Growing | Faster | 3 |
| Information \& communication | 56.0 | 60.2 | 4.2 | Growing | Faster | 2 |
| Management of companies | 33.3 | 50.0 | 16.7 | No Change | From Contraction | 1 |
| Professional, scientific, \& technical services | 50.0 | 46.6 | -3.4 | Declining | From No Change | 1 |
| Public administration | 58.3 | 55.0 | -3.3 | Growing | Slower | 3 |
| Real estate rental \& leasing | 57.8 | 53.1 | -4.7 | Growing | Slower | 2 |
| Repair, maintenance/washing of motor vehicles | 51.5 | 50.7 | -0.8 | Growing | Slower | 2 |
| Transportation \& warehousing | 61.3 | 71.7 | 10.4 | Growing | Faster | 2 |
| Utilities | 64.0 | 64.0 | 0.0 | Growing | Flat | 2 |
| Water supply, sewage \& waste management | 59.1 | 57.5 | -1.6 | Growing | Slower | 3 |
| Wholesale/Retail trade | 47.8 | 50.8 | 3.0 | Growing | From Contraction | 1 |

### 3.2 New Orders

At 53.2 points, the new orders index grew in May 2017 for the second consecutive month. Of the 18 sub-sectors, 11 subsectors reported growth in new orders in the following order: agriculture; electricity, gas, steam \& air conditioning supply; transportation \& warehousing; utilities; water supply, sewage \& waste management; educational services; management of companies; finance \& insurance; accommodation \& food services; real estate rental \& leasing; and information \& communication. The repair, maintenance/washing of motor vehicles sub sector remained unchanged, while the remaining 6 sub-sectors recorded decline in the order: professional, scientific, \& technical services; construction; arts, entertainment \& recreation; public administration; wholesale/retail trade; and health care \& social assistance (Table 9).

Table 9: New Orders at a Glance

| Index | Series <br> Index <br> April | Series <br> Index <br> May | Percentage <br> Point <br> Change | Direction | Rate <br> of <br> Change | Trend <br> (Months) |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| NEW ORDERS PMI | 50.5 | 53.2 | 2.7 | Growing | Faster | 2 |
| Accommodation \& food services | 46.3 | 52.2 | 5.9 | Growing | From Contraction | 1 |
| Agriculture | 68.5 | 72.3 | 3.8 | Growing | Faster | 12 |
| Arts, entertainment \& recreation | 47.0 | 44.1 | -2.9 | Declining | Faster | 4 |
| Construction | 32.1 | 43.1 | 11.0 | Declining | Slower | 24 |
| Educational services | 55.1 | 60.2 | 5.1 | Growing | Faster | 6 |
| Electricity, gas, steam \& air conditioning supply | 59.8 | 67.1 | 7.3 | Growing | Faster | 3 |
| Finance \& insurance | 58.0 | 53.9 | -4.1 | Growing | Slower | 3 |
| Health care \& social assistance | 44.4 | 49.4 | 5.0 | Declining | Slower | 2 |
| Information \& communication | 56.0 | 50.9 | -5.1 | Growing | Slower | 2 |
| Management of companies | 41.7 | 58.3 | 16.6 | Growing | From Contraction | 1 |
| Professional, scientific, \& technical services | 43.5 | 42.4 | -1.1 | Declining | Faster | 19 |
| Public administration | 54.2 | 45.0 | -9.2 | Declining | From Expansion | 1 |
| Real estate rental \& leasing | 53.1 | 51.6 | -1.5 | Growing | Slower | 2 |
| Repair, maintenance/washing of motor vehicles | 51.5 | 50.0 | -1.5 | No Change | From Expansion | 1 |
| Transportation \& warehousing | 55.7 | 66.3 | 10.6 | Growing | Faster | 3 |
| Utilities | 68.0 | 66.0 | -2.0 | Growing | Slower | 2 |
| Water supply, sewage \& waste management | 56.8 | 62.5 | 5.7 | Growing | Faster | 2 |
| Wholesale/Retail trade |  |  |  |  |  |  |

### 3.3 Employment Level

The employment level Index for the non-manufacturing sector stood at 50.2 points, indicating growth in employment in May 2017 after sixteen consecutive months of contraction. Eight subsectors recorded growth in employment level in the following order: transportation \& warehousing; management of companies; agriculture; educational services; information \& communication; utilities; accommodation \& food services; and arts, entertainment \& recreation. The real estate rental \& leasing sub-sector remained unchanged, while the remaining 9 subsectors recorded decline in employment in the following order: construction; public administration; professional, scientific, \& technical services; water supply, sewage \& waste management; electricity, gas, steam \& air conditioning supply; finance \& insurance; repair, maintenance/washing of motor vehicles; wholesale/retail trade; and health care \& social assistance (Table 10).

Table 10: Employment at a Glance

| Index | Series <br> Index <br> April | Series <br> Index <br> May | Percentage Point Change | Direction | Rate of Change | Trend (Months) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| EMPLOYMENT LEVEL PMI | 45.5 | 50.2 | 4.7 | Growing | From Contraction | 1 |
| Accommodation \& food services | 47.2 | 51.8 | 4.6 | Growing | From Contraction | 1 |
| Agriculture | 50.0 | 58.0 | 8.0 | Growing | From No Change | 1 |
| Arts, entertainment \& recreation | 42.4 | 51.5 | 9.1 | Growing | From Contraction | 1 |
| Construction | 37.2 | 38.9 | 1.7 | Declining | Slower | 24 |
| Educational services | 51.3 | 57.4 | 6.1 | Growing | Faster | 5 |
| Electricity, gas, steam \& air conditioning supply | 46.1 | 46.3 | 0.2 | Declining | Slower | 12 |
| Finance \& insurance | 49.0 | 47.1 | -1.9 | Declining | Faster | 16 |
| Health care \& social assistance | 42.6 | 49.4 | 6.8 | Declining | Slower | 17 |
| Information \& communication | 47.4 | 53.7 | 6.3 | Growing | From Contraction | 1 |
| Management of companies | 33.3 | 58.3 | 25.0 | Growing | From Contraction | 1 |
| Professional, scientific, \& technical services | 37.9 | 42.4 | 4.5 | Declining | Slower | 16 |
| Public administration | 50.0 | 40.0 | -10.0 | Declining | From No Change | 1 |
| Real estate rental \& leasing | 49.2 | 50.0 | 0.8 | No Change | From Contraction | 18 |
| Repair, maintenance/washing of motor vehicles | 41.9 | 48.6 | 6.7 | Declining | Slower | 14 |
| Transportation \& warehousing | 52.8 | 59.8 | 7.0 | Growing | Faster | 3 |
| Utilities | 54.0 | 52.0 | -2.0 | Growing | Slower | 2 |
| Water supply, sewage \& waste management | 40.9 | 45.0 | 4.1 | Declining | Slower | 2 |
| Wholesale/Retail trade | 44.3 | 48.9 | 4.6 | Declining | Slower | 18 |

### 3.4 Inventory

Non-manufacturing inventory index in May 2017 stood at 51.4 points indicating growth in inventories in the review period. The non-manufacturing sector recorded growth in inventory after 3 consecutive months of low inventories. Nine sub-sectors recorded higher inventories in the following order: agriculture; educational services; information \& communication; transportation \& warehousing; water supply, sewage \& waste management; electricity, gas, steam \& air conditioning supply; health care \& social assistance; arts, entertainment \& recreation; and accommodation \& food services. The public administration subsectors remain unchanged, while the management of companies; construction; real estate rental \& leasing; professional, scientific, \& technical services; finance \& insurance; repair, maintenance/washing of motor vehicles; utilities; and wholesale/retail trade subsectors recorded lower inventory (Table 11).

Table 11: Inventory at a Glance

| Index | $\begin{array}{c}\text { Series } \\ \text { Index }\end{array}$ | $\begin{array}{c}\text { Series } \\ \text { Index }\end{array}$ | $\begin{array}{c}\text { Percentage } \\ \text { Point }\end{array}$ |  | $\begin{array}{c}\text { Rate } \\ \text { of }\end{array}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
|  | April | May | Change | Direction | $\begin{array}{c}\text { Change }\end{array}$ |
| (Months) |  |  |  |  |  |$]$

## APPENDICES: HISTORICAL DATA

MANUFACTURING PMI DATA SERIES

|  | $\begin{aligned} & \text { 山 } \\ & \bar{n} \\ & 0 \\ & \sum_{0}^{0} \\ & \sum_{0} \end{aligned}$ |  | $\begin{aligned} & \text { n } \\ & \text { ש } \\ & 001 \\ & 0 \\ & 3 \\ & 2 \\ & \hline \end{aligned}$ |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Jul '14 | 51.3 | 55.2 | 53.0 | 46.4 | 46.9 | 52.9 | 43.6 | 50.6 | 54.2 | 53.3 | 46.4 | 47.2 |
| Aug '14 | 49.7 | 49.7 | 51.2 | 49.9 | 45.9 | 52.2 | 40.8 | 48.6 | 52.7 | 50.8 | 45.4 | 48.6 |
| Sep '14 | 54.0 | 57.4 | 57.6 | 46.4 | 49.3 | 55.7 | 45.4 | 49.3 | 52.9 | 55.1 | 46.9 | 49.8 |
| Oct '14 | 51.9 | 55.1 | 55.3 | 46.2 | 46.8 | 52.4 | 45.9 | 49.7 | 56.7 | 57.1 | 50.5 | 51.7 |
| Nov '14 | 52.2 | 55.1 | 56.9 | 45.1 | 47.2 | 51.7 | 46.0 | 53.3 | 60.9 | 56.0 | 50.0 | 47.6 |
| Dec '14 | 49.8 | 51.2 | 51.1 | 49.7 | 46.8 | 48.4 | 44.6 | 53.6 | 56.3 | 51.4 | 47.5 | 51.1 |
| Jan '15 | 50.2 | 50.4 | 49.3 | 51.3 | 51.1 | 49.3 | 47.7 | 48.7 | 55.6 | 52.5 | 48.8 | 45.5 |
| Feb '15 | 53.0 | 57.4 | 54.7 | 43.8 | 50.0 | 56.4 | 50.1 | 54.0 | 60.9 | 58.0 | 50.7 | 53.7 |
| Mar '15 | 48.9 | 52.1 | 48.9 | 47.8 | 46.4 | 47.1 | 38.1 | 50.1 | 56.4 | 48.7 | 44.5 | 46.5 |
| Apr '15 | 52.0 | 56.9 | 54.1 | 42.7 | 48.9 | 53.9 | 43.0 | 50.2 | 54.4 | 53.0 | 48.3 | 48.7 |
| May '15 | 49.4 | 53.6 | 49.7 | 44.6 | 48.0 | 48.0 | 36.9 | 51.6 | 59.0 | 50.5 | 44.9 | 45.6 |
| Jun '15 | 49.5 | 51.5 | 50.8 | 42.0 | 48.5 | 53.3 | 40.0 | 49.2 | 56.7 | 53.0 | 45.3 | 49.3 |
| Jul '15 | 47.8 | 49.7 | 46.2 | 43.5 | 48.4 | 52.6 | 40.1 | 47.9 | 55.0 | 51.7 | 45.2 | 45.3 |
| Aug '15 | 48.4 | 51.0 | 50.1 | 43.1 | 44.8 | 52.4 | 37.6 | 49.0 | 53.1 | 50.2 | 43.7 | 46.1 |
| Sep '15 | 50.7 | 54.9 | 52.1 | 46.8 | 47.1 | 49.0 | 40.3 | 47.5 | 52.8 | 51.0 | 42.5 | 43.2 |
| Oct '15 | 49.2 | 52.0 | 49.3 | 42.7 | 48.4 | 53.1 | 39.8 | 49.1 | 53.8 | 48.3 | 45.6 | 46.8 |
| Nov '15 | 51.2 | 55.4 | 52.9 | 47.3 | 45.5 | 52.2 | 38.7 | 46.2 | 52.8 | 51.0 | 46.0 | 46.9 |
| Dec '15 | 51.2 | 55.4 | 52.7 | 45.2 | 47.5 | 52.7 | 38.0 | 48.6 | 56.5 | 54.5 | 45.1 | 46.4 |
| Jan 16 | 47.2 | 49.3 | 46.2 | 48.4 | 46.0 | 45.8 | 38.3 | 52.6 | 56.7 | 49.9 | 44.2 | 46.3 |
| Feb '16 | 45.5 | 45.0 | 43.0 | 52.8 | 45.0 | 44.7 | 39.2 | 53.0 | 57.0 | 42.8 | 38.5 | 44.4 |
| Mar '16 | 45.9 | 46.6 | 43.0 | 50.6 | 45.5 | 47.1 | 37.8 | 56.4 | 60.9 | 41.6 | 41.2 | 43.8 |
| Apr '16 | 43.7 | 42.7 | 41.8 | 52.2 | 42.0 | 43.0 | 36.3 | 63.9 | 67.8 | 43.6 | 42.6 | 41.6 |
| May '16 | 45.8 | 47.9 | 42.7 | 50.2 | 45.7 | 43.9 | 38.7 | 59.6 | 68.4 | 42.7 | 37.0 | 40.1 |
| Jun '16 | 41.9 | 40.2 | 37.0 | 55.6 | 42.2 | 39.4 | 35.3 | 61.4 | 70.0 | 39.0 | 40.2 | 36.0 |
| Jul '16 | 44.1 | 43.0 | 42.4 | 51.7 | 43.8 | 41.4 | 38.5 | 60.8 | 64.2 | 41.6 | 41.9 | 39.0 |
| Aug '16 | 42.1 | 40.5 | 37.5 | 57.4 | 40.4 | 40.0 | 31.2 | 64.1 | 69.8 | 39.9 | 38.3 | 38.3 |
| Sep '16 | 42.5 | 40.9 | 38.7 | 55.6 | 41.2 | 40.9 | 26.3 | 66.5 | 74.0 | 42.8 | 37.1 | 42.4 |
| Oct '16 | 44.1 | 42.3 | 40.3 | 57.7 | 42.2 | 42.9 | 37.3 | 65.2 | 71.8 | 43.5 | 39.2 | 39.9 |
| Nov '16 | 46.0 | 46.9 | 45.1 | 53.2 | 40.6 | 46.1 | 39.6 | 65.7 | 71.2 | 48.1 | 45.2 | 42.0 |
| Dec '16 | 52.0 | 57.6 | 51.8 | 47.9 | 48.6 | 51.6 | 37.2 | 70.4 | 73.2 | 52.7 | 45.3 | 48.5 |
| Jan '17 | 48.2 | 51.3 | 47.9 | 48.5 | 45.3 | 46.3 | 33.1 | 67.9 | 71.4 | 48.4 | 43.6 | 46.9 |
| Feb '17 | 44.6 | 45.2 | 44.0 | 48.7 | 41.7 | 44.8 | 38.4 | 69.9 | 70.9 | 47.7 | 43.2 | 43.9 |
| Mar '17 | 47.7 | 50.8 | 45.6 | 51.3 | 43.6 | 49.1 | 38.5 | 65.0 | 68.3 | 50.1 | 43.6 | 45.1 |
| Apr '17 | 51.1 | 58.5 | 50.1 | 47.5 | 46.6 | 50.6 | 37.7 | 65.1 | 69.2 | 45.1 | 40 | 46.4 |
| May '17 | 52.5 | 58.7 | 50.5 | 49.9 | 50.7 | 50.8 | 37.6 | 61.3 | 68.4 | 46.1 | 42.3 | 51.8 |

NON-MANUFACTURING PMI DATA SERIES

|  | $\begin{aligned} & \text { 山 } \\ & \underline{n} \\ & \sum_{0}^{0} \\ & \sum_{0}^{n} \\ & i n \end{aligned}$ |  | $\begin{aligned} & \frac{n}{0} \\ & \text { 흥 } \\ & \text { z } \\ & 0 \\ & 2 \end{aligned}$ |  |  |  |  |  | $\begin{aligned} & \underline{4} \\ & 0 \\ & \underline{0} \\ & \underline{\xi} \end{aligned}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Jul '14 | 55.0 | 58.9 | 55.9 | 50.2 | 55.2 | 54.0 | 46.2 | 44.0 | 47.3 | 47.8 |
| Aug '14 | 58.9 | 60.6 | 59.8 | 58.3 | 57.0 | 56.1 | 47.0 | 46.1 | 46.4 | 48.1 |
| Sep '14 | 54.7 | 57.1 | 57.5 | 49.9 | 54.3 | 52.8 | 46.2 | 40.7 | 45.2 | 47.6 |
| Oct '14 | 57.3 | 59.6 | 59.4 | 53.9 | 56.4 | 53.3 | 46.4 | 40.8 | 44.9 | 43.8 |
| Nov '14 | 59.6 | 62.5 | 63.6 | 57.9 | 54.6 | 57.3 | 49.6 | 45.2 | 47.5 | 48.1 |
| Dec '14 | 53.8 | 56.2 | 56.0 | 51.4 | 51.5 | 54.5 | 45.6 | 43.6 | 46.5 | 43.8 |
| Jan '15 | 50.6 | 48.8 | 50.4 | 51.2 | 51.9 | 48.8 | 43.2 | 41.1 | 44.3 | 47.0 |
| Feb '15 | 54.0 | 54.2 | 54.7 | 52.5 | 54.5 | 54.1 | 46.0 | 43.0 | 44.6 | 46.1 |
| Mar '15 | 48.6 | 49.7 | 51.1 | 45.6 | 48.0 | 49.8 | 46.5 | 39.9 | 44.2 | 40.2 |
| Apr '15 | 53.7 | 58.2 | 56.8 | 49.1 | 50.8 | 51.5 | 46.6 | 41.1 | 44.5 | 43.0 |
| May '15 | 51.7 | 52.9 | 53.1 | 49.7 | 51.1 | 51.3 | 44.1 | 37.2 | 39.1 | 44.3 |
| Jun '15 | 50.1 | 51.5 | 50.3 | 46.4 | 52.0 | 48.5 | 44.4 | 36.9 | 40.4 | 42.7 |
| Jul '15 | 50.0 | 50.4 | 51.4 | 48.6 | 49.5 | 50.3 | 43.8 | 39.1 | 39.2 | 44.0 |
| Aug '15 | 50.7 | 52.3 | 52.4 | 48.0 | 50.1 | 50.7 | 43.0 | 39.8 | 38.3 | 44.0 |
| Sep '15 | 50.1 | 52.1 | 52.3 | 47.0 | 49.1 | 48.7 | 44.5 | 42.9 | 41.4 | 45.9 |
| Oct '15 | 51.9 | 54.2 | 54.1 | 49.3 | 50.1 | 49.9 | 43.9 | 40.3 | 42.4 | 45.2 |
| Nov '15 | 49.6 | 52.9 | 51.6 | 45.6 | 48.5 | 51.8 | 42.8 | 37.7 | 39.0 | 41.8 |
| Dec '15 | 53.4 | 55.9 | 56.4 | 50.0 | 51.5 | 54.7 | 47.0 | 41.9 | 42.7 | 47.2 |
| Jan 16 | 46.9 | 46.2 | 46.4 | 47.0 | 47.9 | 57.3 | 44.3 | 36.2 | 39.0 | 41.6 |
| Feb '16 | 44.3 | 43.7 | 42.0 | 44.5 | 47.1 | 53.6 | 39.6 | 37.5 | 36.6 | 43.6 |
| Mar '16 | 45.4 | 46.3 | 44.7 | 43.9 | 46.5 | 58.5 | 43.8 | 34.3 | 35.0 | 41.1 |
| Apr '16 | 44.3 | 44.2 | 42.2 | 43.3 | 47.6 | 62.2 | 43.1 | 31.8 | 33.1 | 39.8 |
| May '16 | 44.3 | 44.3 | 41.3 | 44.6 | 46.9 | 62.9 | 38.1 | 33.2 | 35.0 | 40.3 |
| Jun '16 | 42.3 | 40.2 | 39.6 | 42.5 | 47.1 | 60.7 | 39.6 | 33.2 | 34.7 | 38.5 |
| Jul '16 | 43.2 | 42.8 | 42.3 | 41.9 | 45.8 | 60.4 | 38.6 | 30.0 | 32.7 | 38.0 |
| Aug '16 | 43.7 | 43.6 | 42.0 | 41.4 | 47.7 | 60.8 | 39.4 | 32.9 | 34.2 | 39.4 |
| Sep '16 | 41.0 | 39.9 | 40.0 | 40.3 | 43.9 | 63.1 | 39.6 | 28.6 | 30.2 | 37.9 |
| Oct '16 | 43.4 | 43.0 | 42.7 | 41.5 | 46.4 | 65.3 | 40.9 | 32.8 | 33.8 | 38.7 |
| Nov '16 | 42.8 | 43.0 | 42.3 | 40.2 | 45.5 | 66.8 | 42.4 | 30.8 | 34.0 | 41.1 |
| Dec '16 | 47.1 | 48.2 | 46.9 | 43.8 | 49.5 | 64.0 | 41.5 | 33.8 | 35.5 | 41.6 |
| Jan '17 | 49.4 | 50.6 | 49.4 | 45.6 | 52.0 | 65.6 | 43.6 | 32.5 | 36.1 | 45.5 |
| Feb '17 | 44.5 | 45.4 | 44.9 | 42.6 | 44.9 | 65.4 | 42.9 | 33.4 | 34.5 | 38.7 |
| Mar '17 | 47.1 | 49.8 | 46.4 | 44.0 | 48.0 | 62.1 | 42.7 | 33.1 | 34.5 | 40.6 |
| Apr '17 | 49.5 | 53.3 | 50.5 | 45.5 | 48.6 | 63.1 | 41.6 | 29.2 | 33.2 | 41.1 |
| May '17 | 52.7 | 56.2 | 53.2 | 50.2 | 51.4 | 62.7 | 45.3 | 31.6 | 34.1 | 43.6 |


[^0]:    12 The composite PMI is a simple average of the following diffusion (series) indices: business activity, new orders, employment level and inventories

