# Central Bank of Nigeria 



Purchasing Managers' Index (PMI) Survey Report

Statistics Department
June 2018

## PURCHASING MANAGERS' INDEX (PMI) JUNE 2018 REPORT

### 1.0 Introduction

The June 2018 PMI survey was conducted by the Statistics Department of the Central Bank of Nigeria during the period June 8-19, 2018. The respondents were purchasing and supply executives of manufacturing and non-manufacturing organizations in 31 locations in Nigeria (Fig. 1). The Bank makes no representation regarding the individual companies, other than the information they have provided. The data contained herein further provides input for policy decisions.


Fig. 1: Map of Nigeria with $\star$ showing the survey locations

### 1.1 Data and Method of Presentation

The Manufacturing and Non-Manufacturing PMI Report on businesses is based on survey responses, indicating the changes in the level of business activities in the current month compared with the preceding 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 responses with positive change plus half of the percentage of those reporting no change, except for supplier delivery time, which is computed as the percentage of responses with negative change plus half of the percentage of those reporting no change. The composite PMI for the manufacturing sector is computed as the weighted average of five diffusion indices, namely: production level, level of new orders, suppliers' delivery time, employment level and raw materials inventory/work in progress, with assigned weights of $25 \%$, $30 \%, 15 \%, 10 \%$ and $20 \%$, respectively. The composite PMI for the non-manufacturing sector is
computed from four diffusion indices, namely: business activity, level of 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 contracting. The subsectors reporting growth are listed in the order of highest to lowest growth, while those reporting contraction are listed in the order of the highest to the lowest contraction.

### 2.0 Manufacturing PMI Report

New orders and inventories grew at a slower rate; production level, supplier delivery time and employment level grew at a faster rate in June 2018


The Manufacturing PMI in the month of June stood at 57.0 index points, indicating expansion in the manufacturing sector for the fifteenth consecutive month. (Fig. 3 and Table 1). The index however grew at a faster rate when compared to the index in the previous month. Of the 14 subsectors surveyed, 10 reported growth in the review month in the following order: paper products; furniture \& related products; printing \& related support activities; food, beverage \& tobacco products; plastics \& rubber products; electrical equipment; textile, apparel, leather \& footwear; chemical \& pharmaceutical products; petroleum \& coal products and nonmetallic mineral products. The transportation equipment; fabricated metal products; primary metal; and cement subsectors declined in the review month.


Fig. 3: Trend of Manufacturing PMI

### 2.1 Production Level

At 59.2 points, the production level index for the manufacturing sector grew for the sixteenth consecutive month in June 2018. The index indicated a faster growth in the current month, when compared to its level in the preceding month. Ten of the 14 manufacturing subsectors recorded increase in production level, 1 remained unchanged, while the remaining 3 recorded declines in production level during the review month (Fig. 4 and Table 2).

### 2.2 New Orders

At 56.2 points, the new orders index grew for the fifteenth consecutive month, indicating increase in new orders in June 2018. Eight subsectors reported growth, 2 remained unchanged while 4 contracted in the review month (Fig. 5 and Table 3).



Fig. 5: Trend of new orders index

### 2.3 Supplier Delivery Time

The manufacturing supplier delivery time index stood at 56.5 points in June 2018, indicating slower supplier delivery time for the thirteenth consecutive month. Eight subsectors recorded improved suppliers' delivery time, while 6 remained unchanged (Fig. 6 and Table 4).


Fig. 6: Trend of supplier delivery time index

### 2.4 Employment Level

The employment level index in June 2018 stood at 55.4 points, indicating growth in employment level for the fourteenth consecutive month. Of the 14 subsectors, 7 reported increased employment level, 4 remained unchanged while 3 reported reduced employment level in the review month (Fig. 7 and Table 5).


Fig 7: Trend of manufacturing employment

### 2.5 Raw material Inventories

The Manufacturing sector inventories index grew for the fifteenth consecutive month in June 2018. At 57.7 points, the index grew at a slower rate when compared to its level in the previous month. Eleven of the 14 subsectors recorded growth, 2 remained unchanged while 1 recorded decline in raw material inventories (Fig. 8 and Table 6).



Fig. 9: Non-Manufacturing PMI at a glance

The composite PMI for the nonmanufacturing sector stood at 57.5 points in June 2018, indicating expansion in the Nonmanufacturing PMI for the fourteenth consecutive month. The index grew at a faster rate when compared to that in May 2018. Fourteen of the 17 subsectors recorded growth in the following order: repair, maintenance/ washing of motor vehicles; agriculture; information \& communication; professional, scientific, \& technical services;
 finance \& insurance; utilities; water supply, sewage \& waste management; health care \& social assistance; real estate rental \& leasing; electricity, gas, steam \& air conditioning supply; wholesale/retail trade; construction; management of companies; and transportation \& warehousing. The arts, entertainment \& recreation subsector remained unchanged, while the accommodation \& food services; and educational services subsectors recorded contraction in the review period (Fig. 10 and Table 7).

### 3.1 Business Activity

At 59.1 points, the business activity index grew for the fifteenth consecutive month, indicating expansion in nonmanufacturing business activity in June 2018. The index grew at a faster rate when compared to its level in the previous month. Twelve subsectors recorded growth in business activity, 3 remained unchanged while 2 declined in the review month (Fig 11 Table 8).


Fig. 11: Trend of business activities index

### 3.2 New Orders

At 56.4 points, new orders index grew for the fifteenth consecutive month in June 2018. Of the 18 subsectors, 12) reported growth, 1 remained unchanged and 4 recorded a decline (Fig 12 Table 9).

### 3.3 Employment Level

The employment level Index for the non-manufacturing sector stood at 55.9 points, indicating growth in employment for the fourteenth consecutive month. Twelve subsectors recorded growth, 1 remained unchanged while 4 recorded declines in the review month (Fig 13 Table 10).

### 3.4 Non-manufacturing Inventory

At 58.5 points, non-manufacturing inventory index grew for the fourteenth consecutive month, indicating growth in inventories in the review period. Thirteen subsectors recorded higher inventories, 1 remained unchanged, while 3 subsectors recorded lower inventory in June 2018 (Fig 14 Table 11).


Fig. 12: Trend of new orders index


Fig. 13: Trend of non-manufacturing employment index


Fig. 14: Trend of non-manufacturing inventory index

## APPENDICES

Table 1: Manufacturing at a Glance

| Index | Series Index* May | Series Index* June | Difference | Direction |  | Trend** <br> (Months) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Composite PMI \1 | 56.5 | 57.0 | 0.5 | Growing | Faster | 15 |
| Production level | 58.8 | 59.2 | 0.4 | Growing | Faster | 16 |
| New orders | 54.9 | 56.2 | 1.3 | Growing | Faster | 15 |
| Supplier delivery time | 57.5 | 56.5 | -1.0 | Growing | Slower | 13 |
| Employment level | 55.2 | 55.4 | 0.2 | Growing | Faster | 14 |
| Raw materials/WIP Inventory | 58.1 | 57.7 | -0.4 | Growing | Slower | 15 |
| New Export Orders | 40.1 | 37.6 | -2.5 | Declining | Faster | 40 |
| Output Prices | 53.9 | 53.8 | -0.1 | Growing | Slower | 30 |
| Input Prices | 61.8 | 61.9 | 0.1 | Growing | Faster | 48 |
| Quantity of Purchases | 50.8 | 47.6 | -3.2 | Declining | From Expansion | 1 |
| Outstanding Business/Backlog of Work | 38.5 | 38.0 | -0.5 | Declining | Faster | 7 |
| Stock of Finished Goods | 55.8 | 51.1 | -4.7 | Growing | Slower | 3 |
| Manufacturing Sub-Sectors |  |  |  |  |  |  |
| Cement | 58.8 | 48.3 | -10.5 | Declining | From Expansion | 1 |
| Chemical \& pharmaceutical products | 58.0 | 56.0 | -2.0 | Growing | Slower | 5 |
| Electrical equipment | 60.5 | 60.5 | 0.0 | Growing | Flat | 5 |
| Fabricated metal products | 48.6 | 45.3 | -3.3 | Declining | Faster | 2 |
| Food, beverage \& tobacco products | 59.9 | 61.0 | 1.1 | Growing | Faster | 21 |
| Furniture \& related products | 49.2 | 64.4 | 15.2 | Growing | From Contraction | 1 |
| Nonmetallic mineral products | 48.8 | 50.3 | 1.5 | Growing | From Contraction | 1 |
| Paper products | 62.1 | 65.4 | 3.3 | Growing | Faster | 14 |
| Petroleum \& coal products | 62.5 | 55.0 | -7.5 | Growing | Slower | 8 |
| Plastics \& rubber products | 61.7 | 61.0 | -0.7 | Growing | Slower | 11 |
| Primary metal | 56.1 | 45.4 | -10.7 | Declining | From Expansion | 1 |
| Printing \& related support activities | 51.4 | 61.2 | 9.8 | Growing | Faster | 3 |
| Textile, apparel, leather \& footwear | 51.3 | 58.7 | 7.4 | Growing | Faster | 16 |
| Transportation equipment | 46.3 | 27.5 | -18.8 | Declining | Faster | 2 |

$\backslash 1$ 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
Table 2: Production at a Glance

| Index | Series <br> Index <br> May | Series <br> Index <br> June | Difference | Direction | Rate <br> of <br> Change | Trend <br> (Months) |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| PRODUCTION PMI | 58.8 | 59.2 | 0.4 | Growing | Faster | 16 |
| Cement | 62.5 | 50.0 | -12.5 | No Change | From Expansion | 1 |
| Chemical \& pharmaceutical products | 62.5 | 52.9 | -9.6 | Growing | Slower | 5 |
| Electrical equipment | 60.0 | 80.0 | 20.0 | Growing | Faster | 5 |
| Fabricated metal products | 43.8 | 26.7 | -17.1 | Declining | Faster | 2 |
| Food, beverage \& tobacco products | 65.0 | 70.6 | 5.6 | Growing | Faster | 21 |
| Furniture \& related products | 37.5 | 72.2 | 34.7 | Growing | From Contraction | 1 |
| Nonmetallic mineral products | 43.8 | 37.5 | -6.3 | Declining | Faster | 4 |
| Paper products | 75.0 | 64.3 | -10.7 | Growing | Slower | 3 |
| Petroleum \& coal products | 75.0 | 83.3 | 8.3 | Growing | Faster | 3 |
| Plastics \& rubber products | 60.0 | 61.5 | 1.5 | Growing | Faster | 3 |
| Primary metal | 50.0 | 57.1 | 7.1 | Growing | From No Change | 1 |
| Printing \& related support activities | 57.1 | 59.1 | 2.0 | Growing | Faster | 3 |
| Textile, apparel, leather \& footwear | 60.7 | 63.3 | 2.6 | Growing | Faster | 3 |
| Transportation equipment | 50.0 | 33.3 | -16.7 | Declining | From No Change | 1 |

Table 3: New Orders at a Glance

| Index | Series <br> Index <br> May | Series <br> Index <br> June | Difference | Direction | Rate <br> of <br> Change | Trend <br> (Months) |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| NEW ORDERS PMI | 54.9 | 56.2 | 1.3 | Growing | Faster | 15 |
| Cement | 50.0 | 50.0 | 0.0 | No Chang | Flat | 4 |
| Chemical \& pharmaceutical products | 54.7 | 58.8 | 4.1 | Growing | Faster | 4 |
| Electrical equipment | 70.0 | 60.0 | -10.0 | Growing | Slower | 5 |
| Fabricated metal products | 46.9 | 40.0 | -6.9 | Declining | Faster | 2 |
| Food, beverage \& tobacco products | 59.2 | 59.8 | 0.6 | Growing | Faster | 21 |
| Furniture \& related products | 41.7 | 61.1 | 19.4 | Growing | From Contraction | 1 |
| Nonmetallic mineral products | 43.8 | 50.0 | 6.2 | No Chang From Contraction | 1 |  |
| Paper products | 58.3 | 78.6 | 20.3 | Growing | Faster | 2 |
| Petroleum \& coal products | 50.0 | 33.3 | -16.7 | Declining | From No Change | 1 |
| Plastics \& rubber products | 70.0 | 69.2 | -0.8 | Growing | Slower | 2 |
| Primary metal | 57.1 | 28.6 | -28.5 | Declining | From Expansion | 1 |
| Printing \& related support activities | 57.1 | 63.6 | 6.5 | Growing | Faster | 2 |
| Textile, apparel, leather \& footwear | 42.3 | 56.7 | 14.4 | Growing | From Contraction | 1 |
| Transportation equipment | 25.0 | 0.0 | -25.0 | Declining | Faster | 4 |

Table 4: Supplier Delivery Time at a Glance

| Index | Series <br> Index <br> May | Series <br> Index <br> June | Difference | Direction | Rate <br> of <br> Change | Trend <br> (Months) |
| :--- | :---: | :---: | :---: | :--- | :---: | :---: | :---: |
| SUPPLIER DELIVERY TIME PMI | 57.5 | 56.5 | -1.0 | Growing | Slower | 13 |
| Cement | 62.5 | 50.0 | -12.5 | No Change | From Expansion | 1 |
| Chemical \& pharmaceutical products | 60.9 | 50.0 | -10.9 | No Change | From Expansion | 1 |
| Electrical equipment | 50.0 | 50.0 | 0.0 | No Change | Flat | 3 |
| Fabricated metal products | 59.4 | 73.3 | 13.9 | Growing | Faster | 4 |
| Food, beverage \& tobacco products | 56.7 | 50.0 | -6.7 | No Change | From Expansion | 1 |
| Furniture \& related products | 70.8 | 61.1 | -9.7 | Growing | Slower | 3 |
| Nonmetallic mineral products | 68.8 | 68.8 | 0.0 | Growing | Flat | 2 |
| Paper products | 50.0 | 57.1 | 7.1 | Growing | From No Change | 1 |
| Petroleum \& coal products | 50.0 | 50.0 | 0.0 | No Change | Flat | 2 |
| Plastics \& rubber products | 46.7 | 57.7 | 11.0 | Growing | From Contraction | 1 |
| Primary metal | 57.1 | 64.3 | 7.2 | Growing | Faster | 3 |
| Printing \& related support activities | 42.9 | 63.6 | 20.7 | Growing | From Contraction | 1 |
| Textile, apparel, leather \& footwear | 53.6 | 63.3 | 9.7 | Growing | Faster | 10 |
| Transportation equipment | 75.0 | 50.0 | -25.0 | NoChange | From Expansion | 1 |

Table 5: Employment Level at a Glance

| Index | Series <br> Index <br> May | Series <br> Index <br> June | Difference | Direction | Rate <br> of <br> Change | Trend <br> (Months) |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| EMPLOYMENT LEVEL PMI | 55.2 | 55.4 | 0.2 | Growing | Faster | 14 |
| Cement | 62.5 | 33.3 | -29.2 | Declining | From Expansion | 1 |
| Chemical \& pharmaceutical products | 59.4 | 58.8 | -0.6 | Growing | Slower | 5 |
| Electrical equipment | 40.0 | 40.0 | 0.0 | Declining | Flat | 2 |
| Fabricated metal products | 46.9 | 53.3 | 6.4 | Growing | From Contraction | 1 |
| Food, beverage \& tobacco products | 57.5 | 59.8 | 2.3 | Growing | Faster | 2 |
| Furniture \& related products | 54.5 | 61.1 | 6.6 | Growing | Faster | 2 |
| Nonmetallic mineral products | 50.0 | 50.0 | 0.0 | No Change | Flat | 4 |
| Paper products | 58.3 | 50.0 | -8.3 | No Change | From Expansion | 1 |
| Petroleum \& coal products | 62.5 | 50.0 | -12.5 | No Change | From Expansion | 1 |
| Plastics \& rubber products | 60.0 | 53.8 | -6.2 | Growing | Slower | 10 |
| Primary metal | 57.1 | 50.0 | -7.1 | No Change | From Expansion | 1 |
| Printing \& related support activities | 50.0 | 59.1 | 9.1 | Growing | From No Change | 1 |
| Textile, apparel, leather \& footwear | 46.4 | 53.3 | 6.9 | Growing | From Contraction | 1 |
| Transportation equipment | 50.0 | 33.3 | -16.7 | Declining | From No Change | 1 |

Table 6: Raw Materials Inventory at a Glance

| Index | Series <br> Index <br> May | Series <br> Index <br> June | Difference | Direction | Rate <br> of <br> Change | Trend <br> (Months) |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| RAW MATERIALS INVENTORY PMI | 58.1 | 57.7 | -0.4 | Growing | Slower | 15 |
| Cement | 62.5 | 66.7 | 4.2 | Growing | Faster | 2 |
| Chemical \& pharmaceutical products | 50.0 | 58.8 | 8.8 | Growing | From No Change | 1 |
| Electrical equipment | 90.0 | 70.0 | -20.0 | Growing | Slower | 7 |
| Fabricated metal products | 53.1 | 50.0 | -3.1 | No Change | From Expansion | 1 |
| Food, beverage \& tobacco products | 59.5 | 59.2 | -0.3 | Growing | Slower | 21 |
| Furniture \& related products | 58.3 | 66.7 | 8.4 | Growing | Faster | 4 |
| Nonmetallic mineral products | 43.8 | 56.3 | 12.5 | Growing | From Contraction | 1 |
| Paper products | 66.7 | 71.4 | 4.7 | Growing | Faster | 3 |
| Petroleum \& coal products | 87.5 | 66.7 | -20.8 | Growing | Slower | 5 |
| Plastics \& rubber products | 66.7 | 53.8 | -12.9 | Growing | Slower | 6 |
| Primary metal | 64.3 | 28.6 | -35.7 | Declining | From Expansion | 1 |
| Printing \& related support activities | 35.7 | 60.0 | 24.3 | Growing | From Contraction | 1 |
| Textile, apparel, leather \& footwear | 60.7 | 56.7 | -4.0 | Growing | Slower | 9 |
| Transportation equipment | 50.0 | 50.0 | 0.0 | No Change | Flat | 2 |

Table 7: Non-Manufacturing at a Glance

| Index | Series <br> Index <br> May | Series <br> Index <br> June | Difference | Direction | Rate <br> of <br> Change | Trend <br> (Months) |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| Composite PMI $\backslash 1$ | 57.3 | 57.5 | 0.2 | Growing | Faster | 14 |
| Business Activity | 58.7 | 59.1 | 0.4 | Growing | Faster | 15 |
| Level of new orders/customers/incoming business | 55.9 | 56.4 | 0.5 | Growing | Faster | 15 |
| Level of employment | 55.6 | 55.9 | 0.3 | Growing | Faster | 14 |
| Inventory | 59.2 | 58.5 | -0.7 | Growing | Slower | 14 |
| Average price of Inputs (volume weighted) | 50.8 | 52.2 | 1.4 | Growing | Faster | 32 |
| Level of outstanding business/ Backlog of work | 40.6 | 44.0 | 3.4 | Declining | Slower | 48 |
| New Exports orders | 36.4 | 33.2 | -3.2 | Declining | Faster | 48 |
| Imports | 38.4 | 40.1 | 1.7 | Declining | Slower | 48 |
| Inventory (sentiments) | 46.2 | 42.4 | -3.8 | Declining | Faster | 48 |
| Non-manufacturing sub-sectors |  |  |  |  |  |  |
| Accommodation \& food services | 48.7 | 43.9 | -4.8 | Declining | Faster | 2 |
| Agriculture | 66.7 | 69.2 | 2.5 | Growing | Faster | 25 |
| Arts, Entertainment \& Recreation | 60.9 | 50.0 | -10.9 | No Change | From Expansion | 1 |
| Construction | 49.6 | 54.6 | 5.0 | Growing | From Contraction | 1 |
| Educational services | 58.9 | 45.5 | -13.4 | Declining | From Expansion | 1 |
| Electricity, gas, steam \& air conditioning supply | 58.5 | 55.1 | -3.4 | Growing | Slower | 2 |
| Finance \& insurance | 60.6 | 64.3 | 3.7 | Growing | Faster | 16 |
| Health care \& social assistance | 60.6 | 61.8 | 1.2 | Growing | Faster | 14 |
| Information \& communication | 59.9 | 68.2 | 8.3 | Growing | Faster | 15 |
| Management of companies | 52.5 | 51.9 | -0.6 | Growing | Slower | 2 |
| Professional, scientific, \& technical services | 65.4 | 64.5 | -0.9 | Growing | Slower | 7 |
| Real estate rental \& leasing | 59.7 | 61.3 | 1.6 | Growing | Faster | 4 |
| Repair, Maintenance/Washing Of Motor Vehicles... | 50.0 | 87.5 | 37.5 | Growing | From No Change | 1 |
| Transportation \& warehousing | 51.4 | 50.8 | -0.6 | Growing | Slower | 2 |
| Utilities | 70.8 | 62.5 | -8.3 | Growing | Slower | 15 |
| Water supply, sewage \& waste management | 56.3 | 62.5 | 6.2 | Growing | Faster | 4 |
| Wholesale/Retail trade | 56.9 | 54.8 | -2.1 | Growing | Slower | 13 |
|  |  |  |  |  |  |  |

\1 The composite PMI is a simple average of the following diffusion (series) indices: business activity, new orders, employment level and inventories
Table 8: Business activity at a Glance

| Index | Series <br> Index <br> May | Series <br> Index <br> June | Difference | Direction | Rate <br> of <br> Change | Trend <br> (Months) |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| BUSINESS ACTIVITY PMI | 58.7 | 59.1 | 0.4 | Growing | Faster | 15 |
| Accommodation \& food services | 44.4 | 41.9 | -2.5 | Declining | Faster | 2 |
| Agriculture | 68.8 | 77.5 | 8.7 | Growing | Faster | 25 |
| Arts, Entertainment \& Recreation | 68.8 | 50.0 | -18.8 | No Change | From Expansion | 1 |
| Construction | 51.6 | 63.3 | 11.7 | Growing | Faster | 3 |
| Educational services | 57.1 | 59.1 | 2.0 | Growing | Faster | 10 |
| Electricity, gas, steam \& air conditioning supply | 53.3 | 55.9 | 2.6 | Growing | Faster | 4 |
| Finance \& insurance | 61.6 | 63.1 | 1.5 | Growing | Faster | 15 |
| Health care \& social assistance | 66.7 | 56.9 | -9.8 | Growing | Slower | 3 |
| Information \& communication | 61.8 | 68.4 | 6.6 | Growing | Faster | 15 |
| Management of companies | 40.0 | 61.5 | 21.5 | Growing | From Contraction | 1 |
| Professional, scientific, \& technical services | 64.7 | 76.3 | 11.6 | Growing | Faster | 4 |
| Real estate rental \& leasing | 65.9 | 70.0 | 4.1 | Growing | Faster | 2 |
| Repair, Maintenance/Washing Of Motor Vehicles. | 62.5 | 100.0 | 37.5 | Growing | Faster | 2 |
| Transportation \& warehousing | 50.0 | 40.6 | -9.4 | Declining | From No Change | 1 |
| Utilities | 66.7 | 50.0 | -16.7 | No Change | From Expansion | 1 |
| Water supply, sewage \& waste management | 62.5 | 60.0 | -2.5 | Growing | Slower | 2 |
| Wholesale/Retail trade | 61.3 | 50.0 | -11.3 | No Change | From Expansion | 1 |

Table 9: New Orders at a Glance

| Index | Series Index May | Series <br> Index <br> June | Difference | Direction | Rate of Change | Trend (Months) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| NEW ORDERS PMI | 55.9 | 56.4 | 0.5 | Growing | Faster | 15 |
| Accommodation \& food services | 43.5 | 37.8 | -5.7 | Declining | Faster | 2 |
| Agriculture | 66.7 | 65.0 | -1.7 | Growing | Slower | 2 |
| Arts, Entertainment \& Recreation | 62.5 | 48.3 | -14.2 | Declining | From Expansion | 1 |
| Construction | 50.0 | 51.7 | 1.7 | Growing | From No Change | 1 |
| Educational services | 54.8 | 45.5 | -9.3 | Declining | From Expansion | 1 |
| Electricity, gas, steam \& air conditioning supply | 50.0 | 52.9 | 2.9 | Growing | From No Change | 1 |
| Finance \& insurance | 58.0 | 69.0 | 11.0 | Growing | Faster | 16 |
| Health care \& social assistance | 58.3 | 58.6 | 0.3 | Growing | Faster | 3 |
| Information \& communication | 60.3 | 71.1 | 10.8 | Growing | Faster | 15 |
| Management of companies | 50.0 | 46.2 | -3.8 | Declining | From No Change | 1 |
| Professional, scientific, \& technical services | 64.7 | 55.3 | -9.4 | Growing | Slower | 4 |
| Real estate rental \& leasing | 63.6 | 55.0 | -8.6 | Growing | Slower | 2 |
| Repair, Maintenance/Washing Of Motor Vehicles.. | 50.0 | 100.0 | 50.0 | Growing | From No Change | 1 |
| Transportation \& warehousing | 50.0 | 56.3 | 6.3 | Growing | From No Change | 1 |
| Utilities | 83.3 | 50.0 | -33.3 | No Change | From Expansion | 1 |
| Water supply, sewage \& waste management | 50.0 | 70.0 | 20.0 | Growing | From No Change | 1 |
| Wholesale/Retail trade | 59.7 | 59.6 | -0.1 | Growing | Slower | 13 |

## Table 10: Employment at a Glance

| Index | Series <br> Index <br> May | Series <br> Index <br> June | Difference | Direction | Rate of Change | Trend (Months) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| EMPLOYMENT LEVEL PMI | 55.6 | 55.9 | 0.3 | Growing | Faster | 14 |
| Accommodation \& food services | 50.9 | 48.6 | -2.3 | Declining | From Expansion | 1 |
| Agriculture | 64.6 | 65.0 | 0.4 | Growing | Faster | 14 |
| Arts, Entertainment \& Recreation | 50.0 | 48.3 | -1.7 | Declining | From No Change | 1 |
| Construction | 51.6 | 56.7 | 5.1 | Growing | Faster | 3 |
| Educational services | 59.5 | 40.9 | -18.6 | Declining | From Expansion | 1 |
| Electricity, gas, steam \& air conditioning supply | 70.0 | 55.9 | -14.1 | Growing | Slower | 2 |
| Finance \& insurance | 56.3 | 59.5 | 3.3 | Growing | Faster | 13 |
| Health care \& social assistance | 56.8 | 61.7 | 4.9 | Growing | Faster | 13 |
| Information \& communication | 51.5 | 65.8 | 14.3 | Growing | Faster | 4 |
| Management of companies | 60.0 | 38.5 | -21.5 | Declining | From Expansion | 1 |
| Professional, scientific, \& technical services | 64.7 | 55.3 | -9.4 | Growing | Slower | 2 |
| Real estate rental \& leasing | 50.0 | 57.5 | 7.5 | Growing | From No Change | 1 |
| Repair, Maintenance/Washing Of Motor Vehicles.. | 75.0 | 100.0 | 25.0 | Growing | Faster | 8 |
| Transportation \& warehousing | 61.1 | 53.1 | -8.0 | Growing | Slower | 3 |
| Utilities | 66.7 | 83.3 | 16.6 | Growing | Faster | 4 |
| Water supply, sewage \& waste management | 56.3 | 50.0 | -6.3 | No Change | From Expansion | 1 |
| Wholesale/Retail trade | 48.4 | 57.7 | 9.3 | Growing | From Contraction | 1 |

Table 11: Inventory at a Glance

| Index | Series <br> Index <br> May | Series <br> Index <br> June | Difference | Direction | Rate <br> of <br> Change | Trend <br> (Months) |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| INVENTORY PMI | 59.2 | 58.5 | -0.7 | Growing | Slower | 14 |
| Accommodation \& food services | 55.9 | 47.2 | -8.7 | Declining | From Expansion | 1 |
| Agriculture | 66.7 | 69.4 | 2.7 | Growing | Faster | 8 |
| Arts, Entertainment \& Recreation | 62.5 | 53.4 | -9.1 | Growing | Slower | 9 |
| Construction | 45.2 | 46.7 | 1.5 | Declining | Slower | 2 |
| Educational services | 64.3 | 36.4 | -27.9 | Declining | From Expansion | 1 |
| Electricity, gas, steam \& air conditioning supply | 60.7 | 55.9 | -4.8 | Growing | Slower | 5 |
| Finance \& insurance | 66.7 | 65.7 | -1.0 | Growing | Slower | 5 |
| Health care \& social assistance | 60.8 | 70.0 | 9.2 | Growing | Faster | 14 |
| Information \& communication | 66.2 | 67.6 | 1.4 | Growing | Faster | 2 |
| Management of companies | 60.0 | 61.5 | 1.5 | Growing | Faster | 2 |
| Professional, scientific, \& technical services | 67.6 | 71.1 | 3.5 | Growing | Faster | 7 |
| Real estate rental \& leasing | 59.1 | 62.5 | 3.4 | Growing | Faster | 4 |
| Repair, Maintenance/Washing Of Motor Vehicles | 12.5 | 50.0 | 37.5 | No Chang\& From Contraction | 1 |  |
| Transportation \& warehousing | 44.4 | 53.1 | 8.7 | Growing | From Contraction | 1 |
| Utilities | 66.7 | 66.7 | 0.0 | Growing | Flat | 4 |
| Water supply, sewage \& waste management | 56.3 | 70.0 | 13.7 | Growing | Faster | 7 |
| Wholesale/Retail trade | 58.1 | 51.9 | -6.2 | Growing | Slower | 11 |

Table 12: Manufacturing PMI Data Series

|  |  |  | $\begin{aligned} & \text { n } \\ & \text { d } \\ & 0 \\ & 0 \\ & 3 \\ & \text { 3 } \\ & \text { Z } \end{aligned}$ |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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 | 40.0 | 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 |
| June '17 | 52.9 | 58.2 | 51.0 | 50.3 | 51.1 | 52.3 | 32.6 | 62.7 | 66.6 | 46.2 | 43.9 | 49.1 |
| July '17 | 54.1 | 59.3 | 52.7 | 51.3 | 51.8 | 53.6 | 37.5 | 60.4 | 64.1 | 48.0 | 42.1 | 48.5 |
| Aug '17 | 53.6 | 57.4 | 52.3 | 52.0 | 51.5 | 54.9 | 36.7 | 58.8 | 64.9 | 49.0 | 47.9 | 51.6 |
| Sep '17 | 55.3 | 58.8 | 53.5 | 55.4 | 52.8 | 56.4 | 30.4 | 58.2 | 65.7 | 49.4 | 51.9 | 50.4 |
| Oct '17 | 55.0 | 58.4 | 52.8 | 55.5 | 53.1 | 56.5 | 35.5 | 55.4 | 62.7 | 49.6 | 50.8 | 50.0 |
| Nov '17 | 55.9 | 59.3 | 54.3 | 56.0 | 53.7 | 57.1 | 37.6 | 54.0 | 64.3 | 48.1 | 50.0 | 48.8 |
| Dec '17 | 59.3 | 63.2 | 60.0 | 57.4 | 53.9 | 61.1 | 40.2 | 54.3 | 63.4 | 53.6 | 45.7 | 47.4 |
| Jan '18 | 57.3 | 59.6 | 58.3 | 56.8 | 53.3 | 57.7 | 35.1 | 55.0 | 63.3 | 49.1 | 42.9 | 45.4 |
| Feb '18 | 56.3 | 57.8 | 55.6 | 57.0 | 53.9 | 58.1 | 42.0 | 55.9 | 65.4 | 54.3 | 37.6 | 53.3 |
| Mar '18 | 56.7 | 59.1 | 56.1 | 56.6 | 53.3 | 59.4 | 36.4 | 52.1 | 61.1 | 54.1 | 42.1 | 48.7 |
| Apr '18 | 56.9 | 58.6 | 55.8 | 57.4 | 55.0 | 59.5 | 37.6 | 51.3 | 62.4 | 52.9 | 41.4 | 51.1 |
| May '18 | 56.5 | 58.8 | 54.9 | 57.5 | 55.2 | 58.1 | 40.1 | 53.9 | 61.8 | 50.8 | 38.5 | 55.8 |
| June '18 | 57.0 | 59.2 | 56.2 | 56.5 | 55.4 | 57.7 | 37.6 | 53.8 | 61.9 | 47.6 | 38.0 | 51.1 |

Table 13: Non-Manufacturing PMI Data Series

|  | $\begin{aligned} & \text { 山 } \\ & \bar{N} \\ & 0 \\ & \sum_{0}^{0} \\ & \sum_{0} \end{aligned}$ |  |  |  | $\begin{aligned} & \text { Z } \\ & 0 \\ & \text { D } \\ & \text { D } \\ & \underline{Z} \end{aligned}$ |  |  |  | $\begin{aligned} & \text { t } \\ & 0 \\ & \underline{\underline{E}} \end{aligned}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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 |
| June '17 | 54.2 | 57.0 | 54.6 | 53.4 | 51.8 | 58.6 | 40.5 | 30.3 | 33.5 | 42.7 |
| July '17 | 54.4 | 56.8 | 55.1 | 54.0 | 51.9 | 58.1 | 42.9 | 32.0 | 36.8 | 41.5 |
| Aug '17 | 54.1 | 56.1 | 53.5 | 54.4 | 52.3 | 54.5 | 42.8 | 34.5 | 34.8 | 42.0 |
| Sep '17 | 54.9 | 56.8 | 55.4 | 54.7 | 52.9 | 56.9 | 42.2 | 31.2 | 35.9 | 44.2 |
| Oct '17 | 55.3 | 57.5 | 55.7 | 54.4 | 53.4 | 56.4 | 41.4 | 29.6 | 35.4 | 38.9 |
| Nov '17 | 57.6 | 59.4 | 58.4 | 54.6 | 58.0 | 55.7 | 43.6 | 28.8 | 33.3 | 40.6 |
| Dec '17 | 62.1 | 67.4 | 62.2 | 55.7 | 62.9 | 56.1 | 44.6 | 34.6 | 39.1 | 40.3 |
| Jan '18 | 58.5 | 61.3 | 58.2 | 55.1 | 59.5 | 56.9 | 41.3 | 31.0 | 35.1 | 42.8 |
| Feb '18 | 56.1 | 55.6 | 53.7 | 55.3 | 59.8 | 52.8 | 41.2 | 34.7 | 39.1 | 40.3 |
| Mar '18 | 57.2 | 58.7 | 55.8 | 55.1 | 59.2 | 50.3 | 42.9 | 39.0 | 38.5 | 44.1 |
| Apr '18 | 57.5 | 58.8 | 56.4 | 55.3 | 59.5 | 50.3 | 41.5 | 34.2 | 34.9 | 45.0 |
| May '18 | 57.3 | 58.7 | 55.9 | 55.6 | 59.2 | 50.8 | 40.6 | 36.4 | 38.4 | 46.2 |
| June '18 | 57.5 | 59.1 | 56.4 | 55.9 | 58.5 | 52.2 | 44.0 | 33.2 | 40.1 | 42.4 |

