

# M E T A D A T A

BASIC INFORMATION		
1	Data Category	: Weighted Net Balance of Business Activities (Bank Indonesia Business Survey)
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DATA DEFINITION		
Weighted Net Balance (WNB) of Business Activities is an indicator generated from Bank Indonesia Business Survey (BIBS) to represent the developments of economic activity, in the current quarter compared to the previous, and the expectation of business activity in the next quarter.		
DATA COVERAGE		
<p><b>Coverage:</b></p> <p>The BIBS covers 9 economic sectors referring to GDP (2000=100) classification, as follows:</p> <ol style="list-style-type: none"> <li>1. Agriculture, Livestock, Forestry, and Fishery <ol style="list-style-type: none"> <li>a. Farm Food Crops</li> <li>b. Estate Crops</li> <li>c. Livestock and Its Product</li> <li>d. Forestry</li> <li>e. Fishery</li> </ol> </li> <li>2. Mining and Quarrying <ol style="list-style-type: none"> <li>a. Oil and Gas Mining</li> <li>b. Non-Oil and Gas Mining</li> <li>c. Quarrying</li> </ol> </li> <li>3. Manufacturing Industry <ol style="list-style-type: none"> <li>a. Food, Beverages and Tobacco Industries</li> <li>b. Textile, Leather Products and Footwear Industries</li> </ol> </li> </ol>		

- c. Wood Product and Other Wood Products Industries
- d. Paper and Printing Products Industries
- e. Fertilizers, Chemical and Rubber Products Industries
- f. Cement, and Non-Metalic Mineral Products Industries
- g. Iron and Basic Steel Industries
- h. Transport Equipment, Machinery & Apparatus Industries
- i. Other Manufacturing Products
- 4. Electricity, Gas and Water Supply
  - a. Electricity
  - b. City Gas
  - c. Water Supply
- 5. Construction
- 6. Trade, Hotel and Restaurant
  - a. Wholesale and Retail Trade
  - b. Hotels
  - c. Restaurants
- 7. Transportation and Communication
  - a. Transportation
  - b. Communication
- 8. Finance, Real Estate and Business Services
  - a. Bank
  - b. Non Bank Financial Institution
  - c. Financial auxiliary services
  - d. Real Estate
  - e. Business Services
- 9. Services
  - a. General Government
  - b. Private

The business activities of each sector is measured by its production volume/contract value/operating income/total revenue/sales by considering the characteristics of each sector.

<p><b>Unit:</b> Data published as percentage (%) Net Balance (NB) and % Weighted Net Balance (WNB).</p> <p><b>Currency:</b> -</p>
<b>PERIODICITY OF PUBLICATION</b>
Quarterly
<b>TIMELINESS</b>
2 (two) weeks after the survey period ends (Website).
<b>ADVANCE RELEASE CALENDAR (ARC)</b>
The Advance Release Calendar is issued every December, annually.
<b>SOURCE OF DATA</b>
Bank Indonesia (BI) Business Survey
<b>METHODOLOGY</b>
<p>Bank Indonesia Business Survey (BIBS) has been conducted since the first quarter of 1993. BIBS respondents are large and medium-sized companies classified by sales/operating income/assets/number of workers. The sample drawn by using stratified and purposive sampling, considering the contribution of the business activities to the national and or regional level of economic development. In order to enhance the quality of the survey, since 2007 the BIBS sampling framework has been expanded to 2,400 companies from 2,000 companies previously. Furthermore, since 2015, the number of sample has once again increased to 3,000 companies in 34 provinces throughout Indonesia conducted by 44 Bank Indonesia Representative Offices.</p> <p>The data collected through online application, mail as well as face to face interview with the following details:</p> <ol style="list-style-type: none"> <li>1. Online survey using Bank Indonesia integrated survey application.</li> <li>2. Mail survey, respondents fill out a hardcopy questionnaire and send it to Bank Indonesia by letter, email or fax.</li> </ol>

3. The officers of Bank Indonesia or third party surveyors conduct face-to-face interviews with respondents.

Since the second quarter of 2006, the questions of BIBS has been simplified to the 9 categories from 20 categories in the previous period by merging several categories into categories referring to GDP classification as follows:

Type 1 : Agriculture, Livestock, Plantation, Forestry & Fishery Sector;

Type 2 : Mining & Quarrying Sector;

Type 3 : Manufacturing Industry Sector;

Type 4 : Electricity, Gas & Water Supply Sector;

Type 5 : Construction Sector;

Type 6 : Trade, Hotel & Restaurant Sector;

Type 7 : Transportation & Communication Sector;

Type 8 : Financial, Real Estate and & Business Services Sector;

Type 9 : Services Sector.

In the 1<sup>st</sup> quarter of 2014, Bank Indonesia made two major aspects of improvement in the BIBS questionnaire by adjusting several questions according to analytical needs, as well as simplified the questionnaire format from 4 pages into two pages.

The main questions in each questionnaire category are as follows:

1. Agriculture, Livestock, Forestry and Fishery Sector:

- a. General company information,
- b. General business activity,
- c. Volume of orders (domestic and export)
- d. Capacity utilization (current and in normal condition),
- e. Average working hours,
- f. Financial conditions and access to credit from banks and the main causes,
- g. Corporate financing composition,
- h. Volume of production (current condition and forward) and the main causes of change,
- i. Total sales value (current condition and forward) and the main causes of change,
- j. Average selling price (current condition and forward) and the main causes of change,

- k. Investment conditions (current condition and forward) and the main causes of change,
  - l. Number of workers (current condition and forward) and the main causes of change,
  - m. Inventory volume of raw materials and finished goods (current condition and forward),
  - n. Expected annual inflation rate.
2. Mining & Quarrying Sector :
- a. General company information,
  - b. General business activities,
  - c. Volume of orders (domestic and export)
  - d. Delivery time of input goods from suppliers,
  - e. Capacity utilization (current and in normal condition),
  - f. Financial conditions and access to credit from banks,
  - g. Corporate financing composition,
  - h. Volume of production (current condition and forward) and the main causes of change,
  - i. Total sales value (current condition and forward) and the main causes of change,
  - j. Average selling price (current condition and forward) and the main causes of change,
  - k. Volume of input goods orders (domestic and imported, current condition and forward),
  - l. Inventory volume of raw materials and mining products (current condition and forward),
  - m. Investment conditions (current condition and forward),
  - n. Number of workers (current condition and forward) and the main causes of change,
  - o. Expected annual inflation rate.
3. Manufacturing Industry Sector
- a. General company information,
  - b. General business activities,
  - c. Volume of orders (domestic and export)
  - d. Delivery time of input goods from suppliers,

- e. Capacity utilization (current and in normal condition),
  - f. Financial conditions and access to credit from banks,
  - g. Corporate financing composition,
  - h. Volume of production (current condition and forward) and the main causes of change,
  - i. Total sales value (current condition and forward) and the main causes of change,
  - j. Average selling price (current condition and forward) and the main causes of change,
  - k. Volume of input goods orders (domestic and imported, current condition and forward),
  - l. Inventory volume of raw materials and finished goods (current condition and forward forecast),
  - m. Investment conditions (current condition and forward),
  - n. Number of workers (current condition and forward) and the main causes of change,
  - o. Expected annual inflation rate.
4. Electricity, Gas & Water Supply Sector
- a. General company information,
  - b. General business activities,
  - c. Volume of orders (domestics and export),
  - d. Capacity utilization (current and in normal condition),
  - e. Financial conditions and access to credit from banks,
  - f. Corporate financing composition,
  - g. Volume of production (current condition and forward) and the main causes of change,
  - h. Total sales value (current condition and forward) and the main causes of change,
  - i. Average selling price (current condition and forward) and the main causes of change,
  - j. Volume of input goods orders (domestic and imported, current condition and forward),
  - k. Inventory volume of raw materials and finished goods (current condition and forward forecast),
  - l. Investment conditions (current condition and forward),

- m. Number of workers (current condition and forward) and the main causes of change,
- n. Expected annual inflation rate.

5. Construction Sector:

- a. General company information,
- b. General business activities,
- c. Total volume of contracts,
- d. Volume of input goods orders (domestic and imported, current condition and forward forecast),
- e. Technical capacity
- f. Volume of business activities,
- g. Average working hours,
- h. Financial conditions and access to credit from banks,
- i. Corporate financing composition,
- j. Total value of contract / business revenue / building sales revenue (current condition and forward) and the main causes of change,
- k. Average contract/selling price (current condition and forward) and the main causes of change,
- l. Total volume of contracts (current condition and forward) and the main causes of change,
- m. Volume of input goods orders (domestic and imported, current condition and forward),
- n. Investment conditions (current condition and forward),
- o. Number of workers (current condition and forward) and the main causes of change,
- p. Expected annual inflation rate.

6. Trade, Hotel and Restaurant Sector:

- a. General company information,
- b. General business activities,
- c. Volume of orders (domestic and export),
- d. Business capacity,
- e. Competitiveness,
- f. Average working hours,

- g. Financial conditions and access to credit from banks,
- h. Corporate financing composition,
- i. Total sales volume (current condition and forward) and the main causes of change,
- j. Total sales value (current condition and forward) and the main causes of change,
- k. Average selling price (current condition and forward) and the main causes of change,
- l. Volume of input goods orders (domestic and imported, current condition and forward),
- m. Inventory volume of raw materials and finished goods (current condition and forward),
- n. Investment conditions (current condition and forward),
- o. Number of workers (current condition and forward forecast) and the main causes of change,
- p. Expected annual inflation rate.

#### 7. Transportation and Communication Sector:

- a. General company information,
- b. General business activities,
- c. Capacity utilization,
- d. Average working hours,
- e. Financial conditions and access to credit from banks,
- f. Corporate financing composition,
- g. Total sales volume / demand of goods & services volume (current condition and forward forecast) and the main causes of change,
- h. Total operating / sales income (current condition and forward), and the main causes of change,
- i. Average of service prices/tariffs (current condition and forward), and the main causes of change,
- j. Investment conditions (current condition and forward),
- k. Number of workers (current condition and forward) and the main causes of change,
- l. Expected annual inflation rate.

#### 8. Financial, Real Estate & Business Services Sector:

- a. General company information,

- b. General business activities,
  - c. Business capacity,
  - d. Average working hours,
  - e. Financial conditions and access to credit from banks,
  - f. Corporate financing composition,
  - g. Total sales volume / demand of goods & services volume (current condition and forward) and the main causes of change,
  - h. Total operating / sales income (current condition and forward), and the main causes of change,
  - i. Average of service prices/tariffs (current condition and forward), and the main causes of change,
  - j. Investment conditions (current condition and forward),
  - k. Number of workers (current condition and forward) and the main causes of change,
  - l. Expected annual inflation rate.
9. Services Sector:
- a. General company information,
  - b. General business activities,
  - c. Business capacity,
  - d. Average working hours,
  - e. Financial conditions and access to credit from banks,
  - f. Corporate financing composition,
  - g. Total sales volume / demand of goods & services volume (current condition and forward) and the main causes of change,
  - h. Total operating / sales income (current condition and forward), and the main causes of change,
  - i. Average of service prices/tariffs (current condition and forward), and the main causes of change,
  - j. Investment conditions (current condition and forward),
  - k. Number of workers (current condition and forward) and the main causes of change,
  - l. Expected annual inflation rate.

In addition to the quarterly question, we also develop a number of additional questions about investment and wages on semi annual basis. Investment-related questions are regularly asked every second and fourth quarter, consists of: realization of investments, investment type, the form of realization investment, the investment plan, the type of the investment plan, sources for investment plans financing, and the inhibiting factors. Meanwhile, questions related to wages are periodically inquired every first and third quarter, covers: the development of the average wage, the estimated average wage for foreman/supervisor level workers and below, as well as the factors that affect the increase/decrease in wages, the estimated margin/profit and the estimated percentage of minimum profit margins which do not have negative impact to business activities.

The data collection is due on every fourth week after the survey period ends.

Since the second quarter of 2004, Business Activity data was generated using the Weighted Net Balance (WNB) method with a share of GDP at a constant price of 2000 in each economic subsector as a weight. Net balance (NB) scores are estimated by calculating the difference between the percentage number of respondent who answered “increase” and those who answered “decrease” and by ignoring those who answered “the same”.

$$NB = \% \text{ of "increase" responses} - \% \text{ "decrease" responses}$$

Furthermore, the NB of each sector is multiplied by the sector weights to estimate the WNB.

$$WNB = \sum NB \times \text{The Weight}$$

WNB in each economic sector is the sum of WNB in each economic subsectors covered by the survey, the same approach also applies to WNB all sectors. The total of WNB of all sectors becomes proxy of the economic activities.

The interpretation of Weighted Net Balance of Business Activities calculation result above is as follows:

- $X > 0$  : which means that business activities are increasing compared to the previous quarter.
- $X = 0$  : the percentage of respondents who answer “increase” is equal with those who answer “decrease”, which means that business condition are remain the same with previous quarter.

- $X < 0$  : the percentage of respondents who answer "decrease" are more than those who answer "increase", which means that business activities are decreasing compare to the previous quarter.

Whereas,  $X$  = WNB of business activities.

Bank Indonesia uses several approaches to measure business activities of each sector regarding to its characteristics as below:

1. Production volume for Agriculture, livestock, forestry and fishery sector;
2. Production volume for Mining and quarrying sector;
3. Production volume for Manufacturing industry sector;
4. Production volume for Electricity, gas and water supply sector;
5. Contract value/revenue/sales approach for Construction sector;
6. Sales value/total revenue for Trade, hotel and restaurant sector;
7. Operating income/total revenue for Transportation and communication sector;
8. Operating income/total revenue for Financial, real estate and business services sector;
9. Operating income/revenue for Services sector.

### DATA INTEGRITY

Data are final when first published. Changes in methodology are noted along the data with the new methodology published for the first time.

### PUBLIC ACCESS TO DATA

Data published on:

- Bank Indonesia Website (<http://www.bi.go.id/>)