Quarterly National Accounts in China

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Outline

1. The current QNA approach
2. Data sources
3. Classification and Methods
4. Seasonal Adjustment
5. Revision and release policy
6. QNA improvement progress
1. The current QNA approach

- **QNA approach**
  - QNA by production approach (QNA by expenditure approach is under a tentative period)

- **The frequency and method of QNA**
  - QNA have been estimated since the first quarter of 1992 --- compiled on a cumulative basis.
  - Since the third quarter of 2015 --- compiled on a discrete basis.

- **Classification**
  - 38 economic activities, but only release 9 industries

- **Reference manual**
  - IMF <Quarterly National Accounts Manual>
  - UN <System of national accounts 1993>, <System of national accounts 2008>
  - <Chinese system of national accounts 2002>, and the book CSNA2016 is currently editing stage.
2. Data sources

**Selection of Indicators**

- Statistics collected by NBS
  - Industrial enterprise survey data, wages, revenue...
- Administrative records
  - Transport volumes, tax, fiscal revenue, loans and deposits

**Price indicators**

- PPI, CPI components, retail price index, investment in fixed assets price index, housing sales index, land trading index, wage index
3. Classification and Methods

Principle of accounting method

Set up the relationship between indicator and benchmarks

Base on growth rate of indicator to get the growth rate of value added

① Estimated by the value added rate
② Estimated by growth rate of indicator
③ Estimated by the constant value added

① Estimated by deflation
② Estimated by volume extrapolation
3. Classification and Methods

Agriculture, Forestry, Animal Husbandry and Fishery

Industry

Construction

Wholesale and Retail Trade

Transport, Storage and Post

Hotels and Catering Services

Financial Intermediation

Real Estate

Other Services
3. Classification and Methods

3.1 Agriculture, Forestry, Animal Husbandry and Fishery

**Indicator:** values/quantities
Actual harvest data
The survey data of agriculture, animal husbandry, forestry and fishery

**Sources:** NBS

**Price:**
Agriculture product price index
3. Classification and Methods

3.2 Industry

Industry covers Mining, Manufacturing, Production and Supply of Electricity, Gas and Water

Indicator: values/quantities
Industrial enterprise survey data, including up-scale and below-scale
Main product quantity data

Sources: NBS

Price: PPI
3.3 Construction

**Indicator**: values

Gross output of construction enterprises

**Sources**: NBS

**Price**: fixed capital investment price index
3.4 Wholesale and Retail Trade

**Indicator:** values
- Retail sales
- Wholesale sales

**Sources:** NBS

**Price:**
- Retail price index
3.5 Transport, Storage and Post

**Indicator:** values/quantities
- Transport volumes by railway, road, water line and airline
- The volume of post services
- Service turnover
- Tax data

**Sources:** MOC, MIIT, NBS, SAT

**Price:**
- CPI components
3.6 Hotels and Catering Services

**Indicator:** values
- Turnover of star hotels
- Catering turnover above-scale

**Sources:** NBS

**Price:**
- CPI components
3.7 Financial Intermediation

**Indicator:** values/quantities
- Loans and deposits
- Premium revenue
- Stock turnover

**Sources:** NBS, PBC, CIRC, CSRS

**Price:**
- CPI components, fixed capital investment price index
3. Classification and Methods

3.8 Real Estate

**Indicator:** values/quantities
- Commercial housing sales
- Wages

**Sources:** NBS

**Price:**
- Housing sales price index, housing leasing price index, land trading index,
3.9 Other services

Other services covers the industries of information transmission, software and information technology services, leasing and business services, scientific research and technical services, social security and social organizations......

**indicator: values**
- Wages
- Operating revenue
- Tax data
- Fiscal expenditure data

**Sources:** NBS, SAT, MOF

**Price:**
- CPI components
4. Seasonal Adjustment

• Using the program called NBS-SA, which is based on the X-13-ARIMA seasonal adjustment program in line with international guideline on seasonal adjustment.
• NBS-SA includes seasonal factors particular to China, such as the Spring Festival, the Dragon Boat Festival and the Mid-Autumn Day.
• Indirect adjustment—we do the seasonal adjustment to the value added of constant price of nine industries separately.
• Multiplicative model
5. Revision and release policy

Revision

- Pro rata distribution
- General Revision
  - The preliminary estimation - 15 days after the quarter
  - The revised estimation — 9 months after the quarter
  - The final estimation — 12 months after the quarter
- Comprehensive revision
  - National Economic Census
  - methods or the standards of classification changed

Release policy

Press conferences, bulletins, English website, yearbook
http://www.stats.gov.cn/english/
6. QNA improvement progress

(1) Continue to improve expenditure approach, we will publish the QNA data of expenditure approach when the time is ripe.

(2) Continue to improve the production approach. Such as: the new services industries (courier services, Internet-related services, etc.)

**Improvement measurement:**
① Improving statistical survey system;
② Full using of administrative records and related departments of big data

(3) Improve the consistency of the quarterly and annual GDP data