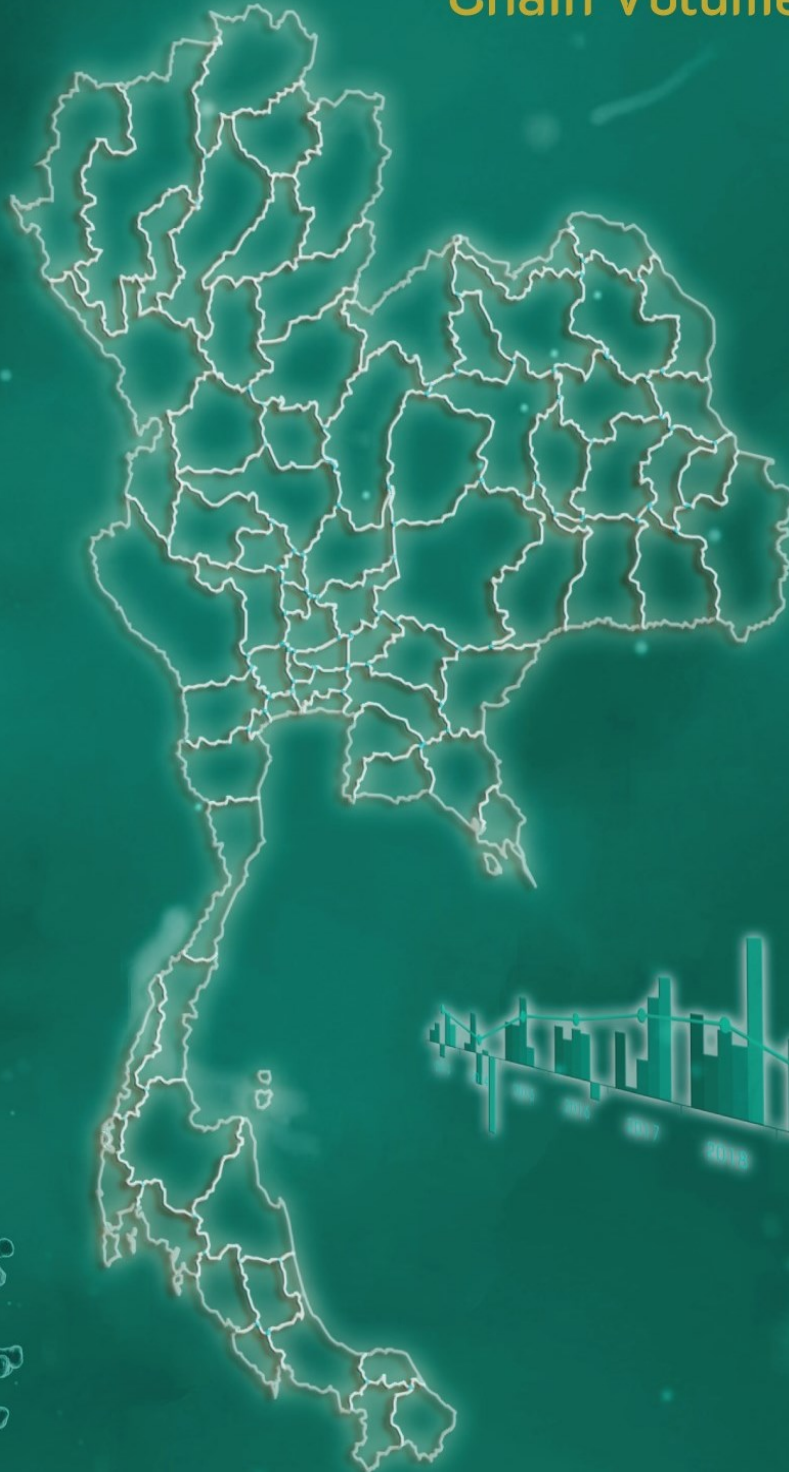




รายได้ประชาชาติของประเทศไทย พ.ศ. ๒๕๖๓ แบบปริมาณลูกโซ่

National Income of Thailand 2020 Chain Volume Measures



Preface

The Office of the National Economic and Social Development Council (NESDC) is responsible for compiling the National Income of Thailand in compliance with the International System of National Accounts (SNA). The National Income of Thailand covers 3 sides of approaches covering production, expenditure and income, which reflects the overall economic activities of accounting of the country.

The National Income of Thailand 2020 edition, following the International System of National Accounts (SNA), is compiled using the chained volume measures (CVMs) in measuring the real terms. In this 2020 edition, data are revised back to 2018 in accordance with the latest available primary data. This is to ensure the accuracy and consistency of the entire system of national accounts. Details of revisions are indicated in the revision note on the following pages.

On this occasion, we would like to express our gratitude to agencies and individuals who constantly supply basic data as well as contribute suggestions on enhancing compilation of the National Income of Thailand and other statistic accounts.



(Danucha Pichayanan)
Secretary-General

National Economic and Social Development Council
December 2021

Revisions to the National Income of Thailand 2020 Edition

In this publication, the estimates have been revised back to 2018. The revisions were made based on the most recent data from the primary sources as follows:

1. Revised data

- Agricultural, forestry, and fishing: revised agricultural figures back to 2018 according to the Agricultural Statistics of Thailand 2018 and 2019 from the Office of Agricultural Economics, and amended fishery figures back to 2018 according to the Fisheries Statistics of Thailand 2019 and estimated data of 2020 from the Department of Fisheries.
- Mining and quarrying: revised mineral production figures back to 2019 according to mineral production of Thailand from the Department of Primary Industries and Mines, and the Department of Mineral Fuels.
- Wholesale and retail; trade and repair of motor vehicles and motorcycle: revised data back to 2018 due to updated production data of manufacturing, agriculture, and mining and quarrying sectors.
- Transportation and storage: revised data back to 2018 due to updated statistical data of land, water, and air transport by the main source.
- Information and communication: revised data back to 2018 in accordance with the operation report of telecommunications from the relevant data sources.
- Financial and insurance activities: revised data back to 2018 according to relevant data sources and added the 'National Savings Fund' item.
- Administrative and support service activities: revised data back to 2018 conforming to the data sources.
- Private final consumption expenditure: revised data back to 2018 according to relevant data sources.
- General government consumption expenditure: revised data back to 2018 conforming to relevant data sources.
- Gross fixed capital formation expenditure: revised the machinery and equipment data of the public and private sectors back to 2018 according to the latest report; and the public construction data back to 2019.
- Change in inventories: revised data back to 2018 according to relevant data sources.
- Primary income of households and NPISHs revised data back to 2008 by including depreciation of fixed assets to gross operating surplus and households mixed income.
- Net income from property of households and NPISHs revised the data and compilation method of interest receipt from commercial banks back to 1990 and compilation method for interest receipt from the rest of the world back to 2014
- Households and NPISHs property income payment included the coverage of interest payment to the rest of the world back to 2014
- Updated other basic data according to the latest data available from original data sources.

2. Abbreviation

- This publication has two letters assigned after data period (s) in tables (r and p). The letter "r" stands for "revised" representing revision figures based on most recent data, coverage, and compilation methodology. Moreover, the letter "p" stands for "preliminary" annual figure, subject to revisions in the next series of publications.

Executive Summary

The Thai economy in 2020, measured by the Gross Domestic Product (GDP), decreased by 6.2%, in contrast to an increase of 2.2% in 2019. The reduction was from both agricultural and non-agricultural production. The latter was adversely impacted by the COVID-19 spread nationwide and worldwide, which directly affected the economic activities of the domestic and the rest of the world. The reduction of the non-agricultural production was from industrial and service sectors, especially tourism-related service sectors, which was a result of the lockdown measure and the traveling restriction of Thai citizens and foreigners; thus, the number of tourists significantly declined. Moreover, domestic demand decreased due to the fragile household purchasing power and cautious spending in line with concerns about the uncertainty of the economic situation and future income.

Total production decreased by 6.2% due to 6.4% and 3.5% decreases in non-agricultural and agricultural production. The contraction of the non-agricultural production was mainly from the industrial sector due to a contraction in domestic and external demand. Meanwhile, the service sector was directly affected by the spread of COVID-19 control and prevention measures which also resulted in a decline of many sectors, such as wholesale and retail trade, accommodation and food services, transportation and storage. Furthermore, agriculture production decreased, owing mainly to lower yields of the major crops, namely paddy, sugarcane, rubber, and maize, despite the expansion in swine and marine fishing.

Domestic demand decreased by a contraction of private final consumption expenditure, investment, and the import and export of goods and services. The private final consumption expenditure declined by 1.0%, compared to a rise of 4.0% in 2019 due to the COVID-19 spread affecting the economic activities, which caused a higher unemployment rate, lower working hours, and income, consequently the household's purchasing power decreased. Moreover, anxiety on economic uncertainty and future income caused households to be cautious about their spending. General government final consumption expenditure increased by 1.4%, compared to 1.6% in 2019. Gross fixed capital formation fell by 4.8%, in contrast to a rise of 2.0% in 2019. In particular, private investment decreased, while public investment expanded due to construction and machinery and equipment investment. For the external sector, exports and imports of goods and services dropped by 19.7% and 14.1%, respectively.

National income in 2020 posted a value of 15,277,823 million baht, which declined by 6.1%. Sources of income were from a return to labor with a value of 4,992,748 million baht which decreased by 3.3%. Moreover, a return to capital, land, and operation valued at 5,861,454 million baht, decreased by 9.8%. Taxes on production and import less subsidies valued at 1,450,358 million baht, decreased by 14.0%. Consumption of fixed capital valued at 2,973,263 million baht, grew by 2.1% decelerating from previous year. In per capita terms, national income per capita in 2020 was 219,796 baht, falling from 234,652 baht in 2019. Disposable income per capita was 130,850 baht and consumption expenditure per capita was 119,432 baht. Consequently, per capita personal savings valued at 13,108 baht in 2020.

For overall economic stability, gross saving decreased by 16.0%, compared to a rise of 3.1% in 2019, whereas gross investment declined by 7.9%. Consequently, the saving-investment gap (equivalent to current account) postulated a surplus with the value of 662,268 million baht, accounting for 4.2% of GDP. However, it was lower than a surplus of 1,174,836 million baht in 2019.

GDP implicit price deflator decreased by 1.3%, in contrast to a rise of 1.0% in 2019. The decline contributed from the non-agricultural price index with a fall of 1.7%, lower than a rise of 0.8% in 2019. However, the agricultural price index increased by 2.6%, compared to a 3.1% rise in 2019. Meanwhile, the consumer price index (CPI) and the producer price index (PPI) fell by 0.8% and 1.8%, consecutively.

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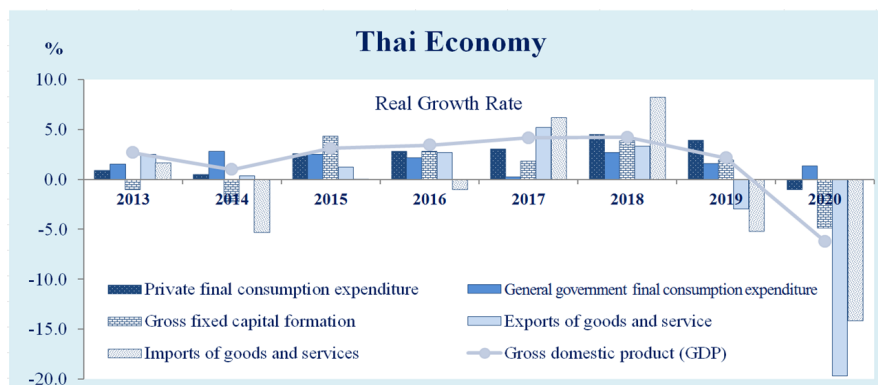
Thai Economy in 2020 National Accounts Perspectives

Overview

GDP in 2020 decreased by 6.2%, in contrast to a rise of 2.2% in 2019, due to the spread of COVID-19.

Gross Domestic Product of 2020 decreased by 6.2%, in contrast to a rise of 2.2% in 2019. The contraction resulted from falls in non-agricultural and agricultural production. The non-agricultural production decreased by 6.4%, falling from an increase of 2.4% in 2019. The negative contributors included the spread of COVID-19 nationwide and worldwide, which directly affected economic activities in domestic and the rest of the world; thus, the reduction reflected the falls of the industrial and service sectors. The industrial sector was affected by the decline in domestic and external demand; meanwhile, the service sector, especially tourism-related services, decreased drastically due to the COVID-19 spread prevention and control measures of Thailand and abroad. Thus the number of tourists considerably declined. The agricultural production fell by 3.5%, due mainly to a decline in main crop yields in response to drought conditions.

Gross Domestic Product (GDP) in 2020 at current market prices valued at 15,636,891 million baht. After deducting 359,068 million baht of net factor income from the rest of the world, Gross National Income (GNI) registered at 15,277,823 million baht, decreasing by 6.1%. While per capita NI was 219,796 baht lower than 234,652 baht in 2019, or a fall of 6.3%.



Domestic Demand: decreased from 2019, attributed to 1.0% and 4.8% falls in private final consumption expenditure and investment, compared to rises of 4.0% and 2.0% in 2019, orderly. However, government final consumption expenditure increased by 1.4%, compared to 1.6% in 2019. Supporting factors were from 1) the lockdown measures and traveling restriction affecting adversely to economic activities 2) higher unemployment rate and lessening working hours resulting in reduced income and households purchasing power 3) cautious spending of consumers, particularly spending on luxuries according to the anxiety about domestic economic conditions, together with future income trends, and 4) the decrease in machinery and equipment investment of private sector.

External Sector: exports of goods and services at current market prices decreased by 19.8%, compared to a fall of 5.3% in 2019. Such a decrease mainly contributed to 5.8% and 61.7% drops in merchandise exports and service receipts. For the import side, imports of goods and services at current market prices dropped by 14.6%. In particular, merchandise imports fell by 13.3%, and service payments decreased by 19.9%. As a result, trade and services balance at current market prices valued a surplus of 832,035 million baht, attributed to 1,281,270 million baht for a trade surplus, compared to a surplus of 826,931 million baht in 2019 and 449,235 million baht for service deficit. However, net factor income was recorded at a deficit of 359,068 million baht. On the other hand, net current transfers recorded a surplus of 189,300 million baht. Ultimately, a current account registered a surplus of 662,267 million baht in 2020, decreasing from a surplus of 1,174,837 million baht in 2019.

National Income (NI) or income from factors of production in 2020 recorded the value of 15,277,823 million baht, dropped by 6.1%. The reduction was from the compensation of employees, accounting for 32.7% of NI, with a fall of 3.3%. Meanwhile, net property income and operating income, accounting for 38.4% of NI, fell by 9.8%. Moreover, consumption of fixed capital, accounting for 19.5% of NI, slowed down to 2.1%. Lastly, taxes on production and imports (net), accounting for 9.5%, decreased by 14.0%.

Gross Domestic Savings in 2020 registered the value of 4,366,309 million baht, decreasing by 16.0%, falling from a rise of 3.1% in 2019. As a result, overall net savings valued at 1,402,559 million baht decreased by 42.5%, compared to a rise of 1.1% in 2019, contributed by the fall of net private sector saving and net public sector saving.

Overall Economic Stability: saving showed a downturn, with a fall of 16.0%. Meanwhile, overall investment decreased by 7.9%. As a result, the saving-investment gap (equivalent to current account surplus) registered a surplus of 662,268 million baht, accounting for 4.2% of gross domestic product, compared to a surplus of 1,174,836 million baht in 2019.

GDP Implicit Price Deflator decreased by 1.3%, falling from a rise of 1.0% in 2019. The agricultural price index grew by 2.6%, compared to a rise of 3.1% in the previous year. Meanwhile, the non-agricultural price index decreased by 1.7%, compared to a rise of 0.8% in 2019. The consumer prices index (CPI) declined by 0.8%, and the producer prices index (PPI) fell by 1.8%.

Gross Domestic Product

GDP in 2020 decreased by 6.2%, in contrast to a 2.2% rise in 2019.

Gross domestic product in 2020 decreased by 6.2%, falling from a 2.2% rise in 2019. The contraction reflected decreases in both agricultural and non-agricultural sectors, which the latter declined by 6.4%, compared to an increase of 2.4% in a prior period, as a result of the spread of COVID-19 in Thailand and many countries which directly affected domestic and global economic activities, leading to decrease in both industrial and service subsectors of the non-agricultural sector. Meanwhile, the agricultural sector dropped by 3.5%, in line with main crops mainly affected by a drought.

Agricultural production decreased by 3.5%, compared to a drop of 0.9% in 2019. The reduction resulted from lower paddy, sugarcane, rubber, and maize yields due mainly to a natural disaster. However, livestock production increased, driven by higher swine production despite decreased chicken and cattle production. Additionally, fishing production grew, propelled by marine fishing, while freshwater fishing fell.

Non-agricultural production decreased by 6.4%. The industrial sector declined by 5.9%, continuing from a drop of 0.1% in 2019. The contraction mainly attributed to manufacturing with a fall of 5.6%, lower than a 0.8% decrease in the previous year due to a fall of domestic and external demand, particularly major trading partners' demand which was affected by the spread of COVID-19 and also a shortage of raw materials in production, leading to a decrease in the production of significant industries, especially export-oriented products, such as motor vehicles. In addition, the service sector also declined by 6.7%, in contrast to a rise of 3.8% in 2019, as a result of the government's measures to curb the spread of COVID-19 in Thailand and abroad, which directly affected domestic tourism, resulting in a drop in major service sectors, such as wholesale and retail trade; repair of motor vehicles and motorcycles; accommodation and food service; and transportation and storage activities.

**Real GDP growth and structure
at current market prices classified by economic activities**

(%)

| Economic activities | Real GDP growth | | | Structure at current prices | | |
|--|-----------------|-------------|-------------|-----------------------------|--------------|--------------|
| | 2018 | 2019 | 2020 | 2018 | 2019 | 2020 |
| Agriculture | 6.1 | -0.9 | -3.5 | 8.2 | 8.1 | 8.7 |
| Agriculture, forestry and fishing | 6.1 | -0.9 | -3.5 | 8.2 | 8.1 | 8.7 |
| Non-agriculture | 4.1 | 2.4 | -6.4 | 91.8 | 91.9 | 91.3 |
| Mining and quarrying | -2.9 | 1.7 | -8.9 | 2.5 | 2.4 | 2.1 |
| Manufacturing | 3.5 | -0.8 | -5.6 | 26.7 | 25.6 | 25.5 |
| Electricity, gas, steam and air conditioning supply | 2.2 | 4.5 | -8.0 | 2.6 | 2.6 | 2.5 |
| Water supply; sewerage, waste management and remediation activities | 5.9 | 5.6 | 0.7 | 0.4 | 0.4 | 0.4 |
| Construction | 2.3 | 1.6 | 1.3 | 2.5 | 2.5 | 2.7 |
| Wholesale and retail trade; repair of motor vehicles and motorcycles | 6.4 | 4.5 | -3.2 | 15.8 | 16.3 | 17.0 |
| Transportation and storage | 3.9 | 2.8 | -22.9 | 5.8 | 5.8 | 4.8 |
| Accommodation and food service activities | 8.0 | 7.7 | -37.5 | 5.6 | 6.1 | 3.8 |
| Information and communication | 8.8 | 11.4 | 1.1 | 2.4 | 2.6 | 2.8 |
| Financial and insurance activities | 3.7 | 1.9 | 5.1 | 7.6 | 7.5 | 8.2 |
| Real estate activities | 5.4 | 3.8 | 1.5 | 2.4 | 2.5 | 2.7 |
| Professional, scientific and technical activities | 2.8 | 1.9 | -4.9 | 1.7 | 1.7 | 1.8 |
| Administrative and support service activities | 3.5 | 2.3 | -22.0 | 1.6 | 1.6 | 1.3 |
| Public administration and defence; compulsory social security | 1.5 | 1.4 | 1.6 | 5.8 | 5.9 | 6.6 |
| Education | 1.0 | 1.2 | 1.3 | 4.0 | 4.0 | 4.4 |
| Human health and social work activities | 4.8 | 3.7 | 3.2 | 2.1 | 2.2 | 2.5 |
| Arts, entertainment and recreation | 12.2 | 14.4 | -13.0 | 0.6 | 0.7 | 0.7 |
| Other service activities | 4.2 | 2.7 | -7.4 | 1.3 | 1.3 | 1.3 |
| Activities of households as employers | -2.6 | -0.6 | 2.7 | 0.2 | 0.2 | 0.2 |
| Gross domestic product, (GDP) | 4.2 | 2.2 | -6.2 | 100.0 | 100.0 | 100.0 |

Agricultural production decreased by 3.5%, whilst the prices of the agricultural products slowed down.

Agricultural sector

Overall agricultural production decreased by 3.5%, continuing from a drop of 0.9% in 2019 due to lower crop yields affected by a drought. Thoroughly, non-perennial and perennial crops declined by 8.0% and 1.3%, respectively, which continuously affected agricultural services with a fall of 9.2%. Meanwhile, livestock, forestry, and fishing production increased by 5.6%, 3.0%, and 0.6% orderly. Additionally, the prices of agricultural products increased by 2.5%, slowing down from a rise of 3.1% in 2019.

Growth rate of agricultural sector (real term) and implicit price deflator growth

(%)

| Sector | 2018 | 2019 | 2020 |
|---|-------------|-------------|-------------|
| Agriculture, forestry and fishery growth | 6.1 | -0.9 | -3.5 |
| Non-perennial crops | 8.1 | -3.8 | -8.0 |
| Perennial crops | 5.3 | 2.2 | -1.3 |
| Livestock | 3.7 | 1.7 | 5.6 |
| Agricultural services | 0.0 | -1.0 | -9.2 |
| Forestry | 2.2 | -3.2 | 3.0 |
| Fishery | 4.1 | 1.8 | 0.6 |
| Implicit price deflator growth | -2.8 | 3.1 | 2.5 |

Agriculture, forestry and fishing

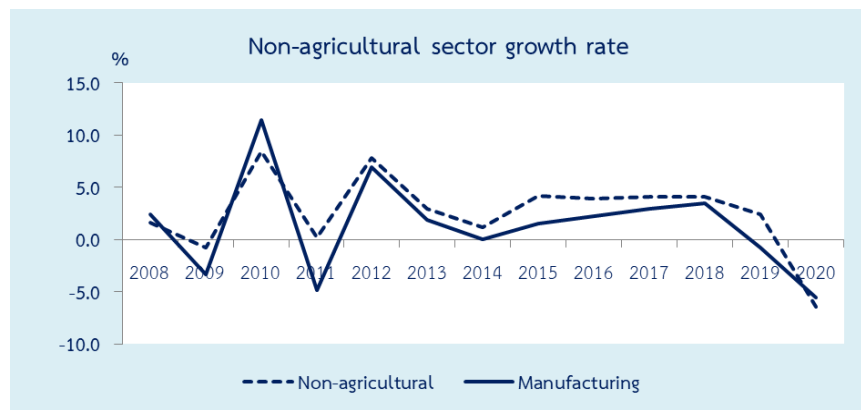
Total production decreased by 3.5%. consisting of major production activities as follows:

- **Non-perennial crops** decreased by 8.0%, due to a contraction in yields of main crops, namely, paddy, sugarcane, cassava, and maize, partly as a result of natural disaster.
- **Perennial crops** decreased by 1.3% due to a reduction in yields of major crops, including oil palms, pineapples, and rubber, despite an increase in fruits.
- **Livestock** increased by 5.6%, mainly driven by increases in swine production and hen's eggs. Meanwhile, the production of cattle and chicken decreased.
- **Agricultural services** decreased by 9.2% due to planting and harvest services in line with reduced planting areas.
- **Forestry** increased by 3.0%, due to an expansion in firewood and charcoal production
- **Fishing and aquaculture** increased by 0.6%, propelled by marine and freshwater fishing.

Implicit prices of agricultural products increased by 2.5%, decelerating from a 3.1% rise in 2019. This expansion was attributable to higher prices of main crops, namely, sugarcane, maize, pineapples, fruits, rubber, swine, cattle, and fishing products, despite decreases in prices of paddy and chicken.

**Non-agricultural sector
declined by 6.4%.**

Non-agricultural sector



Mining and quarrying

Mining and quarrying decreased by 8.9%, in contrast to a 1.7% rise in 2019. This contraction was attributable to a drop of 9.5% in natural gas and crude oil production, compared to a rise of 2.0% in the previous year. A reduction reflected a 6.9% fall in crude oil production, continued decreasing from a 2.8% fall in 2019, in line with lower production in main sources, namely, Sirikit and others in the S1 group, Erawan group, and Tantanwan Benchamas group. Additionally, the natural gas and condensate production declined by 10.3%, in contrast to a rise of 3.9% in the previous year, due to lower production in main sources, namely, Erawan group, Pailin, Bongkot, and Arthit. Moreover, the quarrying of stone, sand, and clay dropped by 3.5%, continued decreasing from a fall of 3.3% in 2019.

Manufacturing

Manufacturing decreased by 5.6% as a result of decreases in both domestic and external demand due to the spread of COVID-19, including the government's prevention measures, causing many industries to halt their production between April and May 2019. Moreover, there was a restriction on international freight transport services, which affected exports of goods, and a shortage of raw materials for production in major industries.

Manufacturing with a contraction

- **Food products** decreased by 5.0%, continued to fall from a 3.2% drop in 2019, due to lower manufacture of sugar, and starches and starch products, as a result of a shortage of raw materials, such as sugarcane and cassava, together with slowdowns in the manufacture of rice milling, processed and preserved meat, processing and preserving of fruit and vegetables, and vegetable oils. Meanwhile, the manufacture of tea, coffee, and prepared animal feeds increased.
- **Beverages** decreased by 7.2%, owing to lower domestic consumption of alcoholic and non-alcoholic beverages.
- **Tobacco products** decreased by 2.0% due to a decrease in tobacco products and cigarettes and cigars.
- **Textiles** decreased by 17.2%, continually dropping from 2019 in all types of products.
- **Wearing apparel** decreased by 14.7% due to domestic consumption and exports.
- **Leather and related products** declined by 12.9%, in contrast to a rise of 5.4% in 2019.
- **Printing** declined by 7.6% due to a decrease in other printing products, such as newspapers and magazines, and service activities related to printing.

- **Petroleum refinery** declined by 3.6%, owing to lower domestic demand.
- **Rubber and plastic products** declined by 7.7% due to a reduction in the manufacture of rubber tires and tubes, plastic articles for the packaging goods, and builders' plastic wares.
- **Non-metallic mineral products** diminished by 4.4%, owing to a reduction in the manufacture of glass and glass products, non-refractory ceramic flooring tiles and mosaic cubes, while the manufacture of articles of concrete for construction slowed down.
- **Basic metals** diminished by 4.6%, due mainly to lower demand from downstream industries.
- **Fabricated metal products** diminished by 2.4%, in line with demand from downstream industries, despite an expansion in the manufacture of metal cans.
- **Machinery and equipment** diminished by 0.5% due to a decrease in agricultural machinery. Meanwhile, the manufacture of compressors, industrial machinery, and office machinery expanded.
- **Motor vehicles** contracted by 24.9%, continually decreasing from a fall of 5.1% in 2019, driven by a reduction in all types of motor vehicles, resulting from lower domestic and external demand.
- **Other transport equipment** contracted by 14.5%, in contrast to a 3.1% rise in 2019. This reduction was attributable to a decrease in building ships and boats, the manufacture of railway locomotives and rolling stock, air and spacecraft and related machinery, and motorcycles.
- **Furniture** contracted by 0.4%. The manufacture of metal furniture decreased despite a slight increase in wooden furniture.
- **Other manufacturing** contracted by 2.5% due to lower external demand for gems and jewelry.

Manufacturing with an expansion

- **Wood and products of wood** increased by 3.4%, continuously growing from 2019, as a result of robust demand for construction and wooden products.
- **Paper and paper products** increased by 3.0%, improving from a fall of 0.1% in 2019, led by other articles of paper, pulp and corrugated paper, resulting from an expansion in courier industries in accordance with significant growth of private operators' turnover.
- **Chemical and chemical products** increased by 0.3%, rising from 2019 due to an expansion in soap, detergents, cleaning and polishing preparations, perfumes and toilet preparations.
- **Basic pharmaceutical products and pharmaceutical preparation** rose by 9.9%, continually increasing from an 8.2% rise in 2019, in response to higher domestic demand in pharmaceutical products, both traditional and conventional medicines, owing to the spread of COVID-19 pandemic.
- **Computer, electronic and optical products** rose by 0.6%, resulting from an increase in the manufacture of electronic components and boards due to higher demand, despite decreases in the manufacture of storage devices, radio receivers, televisions, watches and clocks, and optical lenses.
- **Electrical equipment** rose by 2.2%, following positive growth in 2019, due to higher manufacture of air conditioners, batteries, and electrical motors, caused by higher domestic demand.

**Growth rate (real term) and
structure of manufacturing sector at current market prices**

| | Growth rate (real term) | | | Structure at current prices | | |
|--|----------------------------|-------------|-------------|--------------------------------|--------------|--------------|
| | 2018 | 2019 | 2020 | 2018 | 2019 | 2020 |
| Food products | 7.7 | -3.2 | -5.0 | 14.3 | 14.1 | 15.3 |
| Beverages | -4.0 | 9.7 | -7.2 | 6.4 | 7.2 | 7.4 |
| Tobacco products | -16.6 | -7.2 | -2.0 | 0.8 | 0.8 | 0.8 |
| Textiles | -3.0 | -7.4 | -17.2 | 2.4 | 2.2 | 2.0 |
| Wearing apparel | 4.1 | -1.4 | -14.7 | 2.3 | 2.4 | 2.2 |
| Leather and related products | 5.0 | 5.4 | -12.9 | 1.1 | 1.1 | 1.1 |
| Wood and products of wood and cork | -3.7 | 2.1 | 3.4 | 1.1 | 1.1 | 1.2 |
| Paper and paper products | 3.5 | -0.1 | 3.1 | 1.3 | 1.3 | 1.4 |
| Printing and reproduction of recorded media | 2.6 | -2.0 | -7.6 | 0.3 | 0.3 | 0.3 |
| Coke and refined petroleum products | 4.2 | -4.6 | -3.6 | 11.4 | 11.4 | 9.2 |
| Chemicals and chemical products | 4.5 | 1.5 | 0.3 | 9.0 | 8.6 | 8.5 |
| Basic pharmaceutical products and pharmaceutical preparations | 11.6 | 8.2 | 9.9 | 1.1 | 1.2 | 1.4 |
| Rubber and plastics products | -4.0 | -4.6 | -7.7 | 6.9 | 6.6 | 6.7 |
| Non-metallic mineral products | 2.9 | 3.1 | -4.4 | 3.4 | 3.6 | 3.8 |
| Basic metals | 0.3 | -9.3 | -4.6 | 1.6 | 1.4 | 1.4 |
| Fabricated metal products, except machinery and equipment | 6.8 | 1.2 | -2.4 | 3.1 | 3.2 | 3.4 |
| Computer, electronic and optical products | 5.8 | 0.2 | 0.6 | 9.1 | 9.0 | 9.7 |
| Electrical equipment | 2.2 | 4.8 | 2.2 | 4.5 | 4.7 | 5.2 |
| Machinery and equipment not elsewhere classified | 5.1 | -0.5 | -0.5 | 4.2 | 4.2 | 4.6 |
| Motor vehicles, trailers and semi-trailers | 8.9 | -5.1 | -24.9 | 8.7 | 8.4 | 6.9 |
| Other transport equipment | 2.1 | 3.1 | -14.5 | 2.5 | 2.6 | 2.4 |
| Furniture | 0.1 | -1.4 | -0.4 | 0.8 | 0.8 | 0.9 |
| Other manufacturing | 3.1 | -0.2 | -2.5 | 3.7 | 3.8 | 4.3 |
| Repair and installation of machinery and equipment | 17.4 | 3.6 | -4.4 | 0.1 | 0.1 | 0.1 |
| Total value added | 3.5 | -0.8 | -5.6 | 100.0 | 100.0 | 100.0 |

Electricity, gas and air conditioning supply

Electricity, gas, and air conditioning supply decreased by 8.0%, in contrast to a rise of 4.5% in 2019. This reduction was reflected by a 7.9% decrease in electric power generation, compared to a rise of 5.0% in the previous year in response to lower production of the Electricity Generating Authority of Thailand (EGAT), the Metropolitan Electricity Authority (MEA), the Provincial Electricity Authority (PEA), and private power generation companies. In terms of electricity consumption, every type of electricity consumption decreased, except for the rising electricity consumption of residential users. In addition, gas separation declined by 9.1%, compared to a fall of 0.1% in the previous year.

Electricity and gas supply growth (real term)

| (%) | | | |
|--------------------|------------|------------|-------------|
| Items | 2018 | 2019 | 2020 |
| Electricity | 2.7 | 5.0 | -7.9 |
| Gas separate plant | -1.6 | -0.1 | -9.1 |
| Total | 2.2 | 4.5 | -8.0 |

Electricity consumption growth and consumption structure

| (%) | | | |
|------------------------------|--------------|--------------|--------------|
| Items | 2018 | 2019 | 2020 |
| Consumption growth | 1.4 | 2.8 | -3.2 |
| Residential | 1.9 | 8.8 | 7.4 |
| Small enterprises | 1.7 | 4.9 | -5.5 |
| Medium enterprises | 2.3 | 2.7 | -5.1 |
| Large enterprises | 0.6 | -1.3 | -6.3 |
| Special enterprises | 2.3 | 4.8 | -30.1 |
| Others | 2.4 | -5.3 | -6.9 |
| Consumption structure | 100.0 | 100.0 | 100.0 |
| Residential | 24.8 | 26.2 | 29.1 |
| Small enterprises | 11.7 | 11.9 | 11.6 |
| Medium enterprises | 16.7 | 16.7 | 16.4 |
| Large enterprises | 41.4 | 39.7 | 38.5 |
| Special enterprises | 3.5 | 3.6 | 2.6 |
| Others | 2.0 | 1.8 | 1.7 |

Water supply; sewerage, waste management and remediation activities

Water supply; sewerage, waste management and remediation activities increased by 0.7%, compared to a 5.6% rise in 2019. In detail, water supply activities declined by 2.5%, in line with the water demand. Meanwhile, waste collection; and materials recovery activities grew by 9.1%, continuously rising from the previous year.

Growth of water supply, sewerage, waste management (real term)

| (%) | | | |
|---|------------|------------|------------|
| Items | 2018 | 2019 | 2020 |
| Water supply | 3.1 | 4.6 | -2.5 |
| Waste collection and Materials recovery | 14.6 | 8.4 | 9.1 |
| Total | 5.9 | 5.6 | 0.7 |

Construction

Construction grew by 1.3%, marginally decelerating from a 1.6% rise in 2019. This year, the government construction continued to show favorable growth, while private and state enterprise construction contracted. The positive outlook of the government sector contributed from the disbursement for construction, repair, and improvement for roads and bridges by the Ministry of Transport and the other construction of the Ministry of Agriculture and Cooperative. Moreover, a delay of promulgation of the 2020 Budget Act hampered the disbursement in the first quarter of the fiscal calendar (October—December 2019), subsequently resulting in disbursement ramp-up in the latter half of the year, which considered a part of reasons investment budget this year was much larger than the prior period. While the state enterprise construction experienced lower operation since most of its operations were continuing projects from the previous year, such as the transmission line system project of the Electricity Generating Authority of Thailand (EGAT), the Construction of Electricity Power Transmission System of the Provincial Electricity Authority (PEA), and the water pipeline system construction of the Provincial Waterworks Authority (PWA). On the other hand, private construction showed a negative growth predominantly underpinned by a shrinkage in dwelling construction, commercial building construction, and industrial plant. On the other hand, factory construction in industrial estates and other construction continued to rise.

Wholesale and retail trade; repair of motor vehicles and motorcycles

Wholesale and retail trade; and repair of motor vehicles and motorcycles decreased by 3.2%, contrasted with a 4.5% increase in 2019, owing to decreases in sales of motor vehicles and motorcycles in response to weakened domestic and external demand. In addition, wholesale and retailed trade also declined, due mainly to the COVID-19 spread prevention measures of the government, resulting directly in a drop in household consumption expenditure and reduction in the number of foreign tourists from domestic and international travel restrictions.

Transportation and storage

Transportation and storage decreased by 22.9%, in contrast to a rise of 2.8% in 2019. The contraction was attributable to land, water, and air transport services, which declined by 17.4%, 1.8%, and 64.7%, respectively, as a result of a drop of passenger transport service from lower domestic and foreign tourists by the closure of point of entry into the Kingdom and inter-provincial travel restriction measure in order to curb the spread of COVID-19. In addition, the freight transport service of agricultural and manufacturing products declined due to their sales and production. Meanwhile, postal and courier activities rose by 20.3%, higher than a rise of 14.5% in 2019, in accordance with the significant growth of private operators' turnover.

Accommodation and food service activities

Accommodation and food service activities decreased by 37.5%, in contrast to a 7.7% increase in 2019. This contraction reflected a decrease in both accommodation and food services. Accommodation services declined by 50.7%, compared to a rise of 6.6% in the previous year, due mainly to a decrease in the number of foreign tourists, which dropped by 83.2%, contrasted with a rise of 4.2% in the prior period, resulting from travel restrictions in many countries to prevent the spread of COVID-19. Meanwhile, Thailand declared the emergency decree on public administration in emergency situations B.E. 2548 (2005) since March 25, 2020, and CAAT announced a temporary ban on all international flights. Thus, the second and third quarters of 2019 recorded none of the foreign tourist arrivals. However, domestic tourism increased slightly in the fourth quarter of 2019, due partly to a tourism stimulus package: Rao Tiew Duay Kan (We Travel Together). Food service activities dropped by 27.1%, mainly affected by a significant drop in foreign tourist arrivals, the same impact as accommodation activities. Moreover, closure of places that were risk-prone to the transmission of the disease and a ban on restaurant dine-ins were still uneased. The contraction could not be counterbalanced by the positive effects of the government's stimulus measures, including Half-price Co-pay campaigns and Rao Tiew Duay Kan (We Travel Together) coupons which supported household purchasing power in the last quarter of 2020.

Information and communication

Information and communication expanded by 1.1%, compared to 11.4% in 2019, mainly driven by telecommunication activities with a rise of 1.6%, slowing down from an increase of 18.8% in the previous year. Furthermore, there was a decrease in programming and broadcasting activities; and motion picture, video and television program activities, sound recording, and music publishing activities with a fall of 1.0% and 18.6%, compared with a rise of 1.0% and 1.8% in 2019, respectively. On the other hand, computer programming and consultancy activities also increased by 3.4%, and information service activities rose by 15.3%.

Financial and insurance activities

Financial and insurance activities increased by 5.1%, accelerating from 1.9% in the previous year. The improved performance of commercial banks and other depository institutions represented an enhanced growth this year compared to the deceleration last year. The expansion is partly attributable to the soft-loan measure that helped entrepreneurs affected by the COVID-19 outbreak. Notably, commercial banks' performance continuously expanded due to an increased volume of credits and deposits, even though fee-income and net interest margin on loans and deposits were reduced. On the other hand, the overall operating result of insurance activities decelerated, due to a contraction in life insurance, whereas non-life insurance expanded. Furthermore, the performance of security companies is highly developed, driven by a rise in turnover, while other financial services contracted, thanks to declined operations in foreign exchange companies and fund management activities.

Real estate activities

Real estate activities increased by 1.5%, decelerating from 3.8% in 2019. This gain comprised a 3.0% rise in real estate activities with own or leased property. Meanwhile, real estate broker activities fell by 12.4% due partly to the COVID-19 pandemic, weakening consumers' confidence in economic situations, increasing consumer caution, and delaying housing purchase decisions.

Professional, scientific and technical activities

Professional, scientific and technical activities decreased by 4.9%, in contrast to a rise of 1.9% in 2019 due to a reduction in management consultancy activities; architectural and engineering activities; technical testing and analysis; and legal and accounting activities. Meanwhile, activities of scientific research and development; activities of advertising and market research; and activities of other professionals, scientific and technical increased.

Administrative and support services activities

Administrative and support services activities curtailed by 22.0%, compared to a rise of 2.3% in 2019, contributed by falls in every type of activity. Rental and leasing activities declined, due partly to a drop in activities of renting of machinery and office equipment for construction and civil engineering; and activities of renting of the personal motor vehicle. The activities of travel agencies and tour operators dropped drastically by 76.2%, contrasted with a 5.4% increase in 2019, resulting from a decreased number of foreign tourists and international travel restrictions, affecting both domestic and international tourism. Additionally, activities of general cleaning of the building, activities of security and investigation, and activities of other employment placement agencies declined, in line with a decline in major production activities both in goods and services.

Education

Education increased by 1.3%, led by a 1.8% rise in public education, despite private education with a fall of 3.2%.

Human health and social work activities

Human health and social work activities rose by 3.2%, slowing down from 3.7% in 2019 due to the deceleration in human health of the public and private sectors. On the other hand, social work activities both with and without accommodation for the children and elderly cut down, due partly to preventing and controlling the spread of COVID-19.

Art, entertainment and recreation

Art, entertainment, and recreation dropped by 13.0%, compared to a rise of 14.4% in 2019, as a result of the lockdown measure leading to closure in business, venues, and places, such as museums, public parks, fitness centers, and sports stadiums to curb the spread of coronavirus.

Other service activities

Other service activities declined by 7.4%, in contrast to a 2.7% rise in 2019, led by repair of computers, and personal and household goods activities with a fall of 1.1%, compared to a rise of 4.4% in 2019. Moreover, personal service activities and activities of membership organizations activities fell by 16.2% and 4.1%, respectively.

Expenditure on Gross Domestic Product

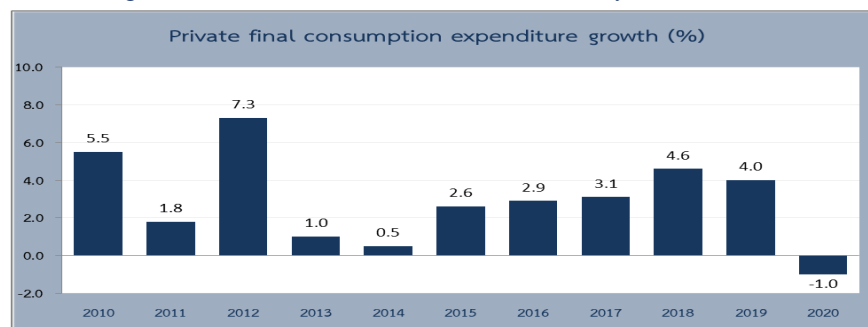
Private final consumption expenditure in 2020 decreased by 1.0%.

Composition of private final consumption expenditure

Private final consumption expenditure (PFCE) in 2020 diminished by 1.0%, in contrast to a 4.0% rise in 2019.

Private final consumption expenditure decreased from the previous year. The decline mainly came from the spread of Coronavirus 2019 (COVID-19), which resulted in the implementation of COVID-19 spread prevention and control measures locally and globally, such as lockdown and travel restrictions in order to prevent an outbreak. These measures have posed adverse effects on the manufacturing and service sectors, which induced unemployment, especially of private employees and self-employed people, as seen from increased unemployment rate and lower working hours. Consequently, the household's purchasing power remained fragile. In addition, people were more concerned about economic uncertainty and future earnings, as seen from the consumer confidence index, which fell to a record low at 52.7%, compared to 75.5% in 2019. As a result, people were more cautious about spending, particularly on luxury goods. However, the inflation rate remained low, mainly from decreased energy prices. Moreover, the economic stimulus and remedial measures for the impact of Covid-19 supported the household's purchasing power, mostly in necessity good.

Spending on durable and semi-durable goods dropped by 16.5% and 11.9%, compared to rises of 2.4% and 2.7%, in 2019, respectively. Notably, spending on durable goods fell off due to a 19.2% reduction in personal vehicles. Nonetheless, spending on non-durable goods and net services expanded by 1.8% and 2.4%, decelerating from rises of 2.9% and 5.9% in 2019, orderly.



Private final consumption expenditure in the domestic market-excluding residents abroad, decreased by 12.7%, compared to a rise of 3.7% in 2019. This reduction was a result of a decrease in household final consumption expenditure and final consumption expenditure of non-profit institutions serving households with a decline of 12.9% and 4.6%, compared to rises of 3.7% and 2.8% in a prior period, orderly.

Private final consumption expenditure in the domestic market-excluding the expenditure of non-residents in the country and the expenditure of residents abroad, grew by 2.0%, compared to 4.3% in 2019. Whereas, private final consumption expenditure in the domestic market-including the expenditure of residents abroad, fell by 70.6%, compared to a drop of 3.2% in 2019. Consequently, private final consumption expenditure declined by 1.0%, in contrast to a rise of 4.0% in 2019.

Private final consumption expenditure growth (real term) and structure at current market prices

(%)

| Item | Growth rate (real term) | | | Structure at current prices | | |
|---|-------------------------|------|-------|-----------------------------|-------|-------|
| | 2018 | 2019 | 2020 | 2018 | 2019 | 2020 |
| PCE in domestic market | 3.8 | 3.7 | -12.7 | 117.3 | 117.0 | 103.0 |
| less: expenditure of non – residents in the country | 1.5 | 0.9 | -79.8 | 21.7 | 21.1 | 4.2 |
| PCE excluding expenditure of non-residents | 4.4 | 4.3 | 2.0 | 95.6 | 95.9 | 98.8 |
| plus: expenditure of residents abroad | 8.7 | -3.2 | -70.6 | 4.4 | 4.1 | 1.2 |
| PCE | 4.6 | 4.0 | -1.0 | 100.0 | 100.0 | 100.0 |

PCFE Classified by goods and services items

Household consumption expenditure classified by goods and services items.

Food and non-alcoholic beverages expanded by 2.3%, slightly slowed down from a 2.5% rise in 2019. Food items grew by 2.8%, continually rising from 2.3% in 2019. This expansion was mainly from increased consumption of bread and cereals; meat; seafood; milk, cheese, and egg. The purchase of non-alcoholic beverages fell by 1.8%, in contrast to a rise of 3.6% in 2019, attributed to a decrease in consumption of water and juice.

Alcoholic beverages and tobacco decreased by 4.2%, falling from a 2.1% rise in 2019. Alcoholic beverages consumption shrank by 6.3%, in contrast to a 3.5% increase in 2019, due partly to decreased sales volume in liquor, beer, and wine in response to the government's measures preventing and controlling the spread of coronavirus. In addition, tobacco consumption dropped by 0.7%, continually diminishing from a fall of 0.1% in 2019.

Clothing and footwear declined by 18.9%, opposed to a 1.8% rise in 2019, due to clothing and footwear expenses with a fall of 19.2% and 16.4%, in contrast to a rise of 1.7% and 2.1% in 2019, respectively.

Housing, water, electricity, gas, and other fuels expanded by 3.3%, slowing down from 4.1% in the previous period. Rentals for housing and expenses on electricity consumption, gases, and other fuels rose by 4.6% and 5.3%, compared to 7.2% and 6.5% in 2019, respectively. While spending on the water supply of households grew by 4.0%, slightly rising from 3.9% in 2019.

Furnishing, household equipment and routine maintenance of the house dropped by 2.6%, compared to a 3.1% rise in 2019. The reduction was from decreased expenses in all categories. Spending on household equipment and routine maintenance, household textiles, household appliances, and glassware, tableware and household utensils declined by 3.2%, 3.5%, 2.5% and 1.4%, in contrast to a rise of 2.2%, 2.0%, 4.6% and 3.0% in 2019, respectively.

Health grew by 6.0%, rising from 5.1% in 2019 due to increased expenses on hospital services and other medical products, which expanded by 7.3%, and 6.2%, accelerating from 5.0%, and 5.8% in 2019, respectively. These expansions were attributable to a boost in demand for medical items for personal protection from Covid-19. Nonetheless, expenses on outpatient services rose by 1.5%, slowing down from a 3.0% rise in 2019.

Transport dropped by 17.4%, lower than a 1.2% rise last year. The significant shrinkage resulted from a decrease in spending on vehicle purchases, transport services, and personal transport equipment with a fall of 19.2%, 32.0%, and 4.2%, in contrast to a rise of 0.5%, 1.9%, and 1.2% in 2019, respectively.

Communication increased by 1.1%, slowing down from 3.4% in 2019. The deceleration was mainly due to increased spending on telephone services with a rise of 1.0%, compared to 3.5% in 2019. Nevertheless, purchases of postal services rose by 4.8%, accelerating from 1.9% last year, in accordance with the improved businesses' turnovers and an expansion of postal service consumption.

Recreation and culture decreased by 20.3%, dropping from a 2.6% rise in 2019. Spending on holiday packages and recreational and cultural services declined by 74.9% and 15.5%, compared to a rise of 0.2% and 3.4% in a prior period, orderly. The spending on holiday packages fell sharply due to travel restrictions controlling coronavirus spread. In addition, the spending on newspapers and periodicals fell by 3.3%, continually declining from a 1.3% fall in 2019.

Education dropped by 1.3%, opposed to an increase of 4.4% in the preceding period. In addition, spending on pre-primary and primary education slightly declined, whereas spending on higher education slowed down. On the contrary, spending on secondary education expanded from the previous year.

Restaurants and hotels fell sharply by 47.5%, in contrast to a 7.6% rise in 2019. The significant reduction mainly resulted from spending on restaurants and hotel services plunging to 30.7% and 73.6%, opposed to a rise of 8.7% and 6.0% in 2019, orderly. The leading cause of contraction was the international travel restriction preventing the spread of COVID-19. Consequently, the number of foreign tourists reduced dramatically. In addition, the decrease in expenditure resulted from the restrictions on the closure of venues that are risk-prone to the COVID-19 outbreak, including the prohibition of dine-in service at restaurants and entertainment venues.

Miscellaneous goods and services dropped by 6.4%, slipping from a rise of 4.0% in 2019. The dwindling expenditure was mainly due to decreased spending on personal effects, insurance, and other services with a drop of 19.7%, 4.9%, and 13.9%, compared to a rise of 5.7%, 1.2%, and 3.0% in 2019, respectively. Nevertheless, spending on financial services expanded by 3.6%, increasing from 3.3% in 2019.

Individual consumption expenditure of non-profit institutions serving households (NPISHS) decreased by 4.6%, opposed to a 2.8% rise in 2019. Spending on other services dropped by 8.7%, falling from a 3.5% increase in 2019. Moreover, spending on social protection dropped by 1.3%, lower than a 2.3% rise in the previous year.

PFCE by durability of 4 factors

Private consumption expenditure classified by durability 4 categories

Durable goods dropped drastically by 16.5%, compared to an increase of 2.4% in 2019. The contraction was mainly from a 19.2% decrease in spending on vehicle purchases, compared to a 0.5% increase in 2019. In addition, expenses on personal jewelry, furniture and furnishings, and therapeutic appliances and equipment fell by 19.7%, 3.2%, and 7.4%, compared to the growth of 5.7%, 2.4%, and 8.6% in 2019, respectively.

Semi-durable goods fell by 11.9%, from a 2.7% expansion in 2019. The reduction of expenditure came from spending on clothing, household textiles and glassware, tableware, and household utensils with a decrease of 19.2%, 3.5%, and 1.4%, compared to a rise of 1.7%, 2.0%, and 3.0% in the previous year, consecutively.

Non-durable goods increased by 1.8%, slowing down from 2.9% in 2019. The expense on non-alcoholic beverages fell by 1.8%, from a rise of 3.6% in 2019. In addition, spending on alcoholic beverages and tobacco diminished by 4.2%, opposed to a rise of 2.1% in the prior period. However, expenses on the consumption of food items rose by 2.8%, from 2.3% in 2019.

Services grew by 2.4%, decelerating from 5.9% in 2019. The expense on outpatient services grew by 1.5%, slowing down from 3.0% in the previous year. Spending on transport services, restaurant, and accommodation services declined remarkably by 32.0%, 30.7%, and 73.6%, compared to increases of 1.9%, 8.7%, and 6.0% in 2019, respectively. Additionally, the expenditure of non-residents in the country fell markedly by 79.8%, from a rise of 0.9% last year, according to a decreased number of foreign tourists. While the expenditure of residents abroad is included with a decrease of 70.6%, continually dropping from a fall of 3.2%; thus, domestic net services consumption for Thai residents in 2020 decelerated.

**Private final consumption expenditure classified by purpose (COICOP)
and by durable appearance, growth (real term) and structure at current market prices**

| | Growth rate (%) | | | Structure (%) | | |
|---|-----------------|------------|-------------|---------------|--------------|--------------|
| | 2018 | 2019 | 2020 | 2018 | 2019 | 2020 |
| By purpose (COICOP) | | | | | | |
| Food and non-alcoholic beverages | 2.2 | 2.5 | 2.3 | 26.1 | 26.3 | 27.6 |
| Alcoholic beverages, tobacco and narcotics | -1.9 | 2.1 | -4.2 | 3.6 | 3.5 | 3.4 |
| Clothing and footwear | 1.2 | 1.8 | -18.9 | 4.8 | 4.7 | 3.9 |
| Housing, water, electricity, gas and other fuels | 3.2 | 4.1 | 3.3 | 10.0 | 10.0 | 10.3 |
| Furnishings, household equipment and routine maintenance of the house | 5.1 | 3.1 | -2.6 | 4.5 | 4.4 | 4.3 |
| Health | 5.3 | 5.1 | 6.0 | 5.2 | 5.2 | 5.6 |
| Transport | 5.9 | 1.2 | -17.4 | 16.2 | 15.6 | 12.6 |
| Communications | 4.8 | 3.4 | 1.1 | 2.3 | 2.2 | 2.3 |
| Recreation and culture | 4.8 | 2.6 | -20.3 | 6.4 | 6.3 | 5.0 |
| Education | 5.1 | 4.4 | -1.3 | 1.5 | 1.5 | 1.5 |
| Restaurants and hotels | 4.3 | 7.6 | -47.5 | 20.4 | 21.0 | 10.9 |
| Miscellaneous goods and services | 5.7 | 4.0 | -6.4 | 14.4 | 14.4 | 13.8 |
| Individual consumption expenditure of Non-profit institutions serving households (NPISHs) | 1.1 | 2.8 | -4.6 | 1.9 | 1.9 | 1.8 |
| plus: Expenditure of residents abroad | 8.7 | -3.2 | -70.6 | 4.4 | 4.1 | 1.2 |
| less: Expenditure of non-residents in the country | 1.5 | 0.9 | -79.8 | 21.7 | 21.1 | 4.2 |
| Private consumption expenditure | 4.6 | 4.0 | -1.0 | 100.0 | 100.0 | 100.0 |
| By durable appearance | | | | | | |
| Durable goods | 10.0 | 2.4 | -16.5 | 9.9 | 9.7 | 8.4 |
| Semi-durable goods | 4.0 | 2.7 | -11.9 | 8.9 | 8.7 | 7.8 |
| Non-durable goods | 1.7 | 2.9 | 1.8 | 43.8 | 43.7 | 44.7 |
| Services | 6.8 | 5.9 | 2.4 | 37.4 | 37.9 | 39.1 |

Composition of general government final consumption expenditure

General government final consumption expenditure in real terms increased by 1.4%.

General government final consumption expenditure at current market prices recorded the value of 2,789,730 million baht with an increase of 2.1%, slowing down from 3.2% in 2019. Thoroughly, government compensation of employees valued at 1,582,077 million baht with a rise of 3.9%, decelerating from 4.1% in the previous year, partially due to lower growth rate of pension payment and remuneration. Moreover, purchases from enterprises and abroad recorded a value of 821,209 million baht, an increase of 1.3%, compared to 2.0% last year. Consumption of fixed capital recorded the value of 317,522 million baht with a 2.4% increase. Social transfers in kind – purchased market production recorded a value of 279,152 million baht, increasing by 1.6%.

By the functions of government, total general government final consumption at current market prices recorded the value of 2,789,730 million baht, consisting of education services with a 28.2% share of general government final consumption expenditure. The rest of government services by function comprised 19.3% share for health services, 13.8% share for general public services, 11.8% share for economic affair, 11.0% share for defence, 8.9% share for public order and safety, 6.9% share for remaining of instance housing and community amenities, recreation, culture and religion, environmental, and social protection.

General government final consumption expenditure in real terms grew by 1.4%, due to a 1.9% rise in compensation of employees, 3.4% in purchases from enterprises and abroad, 2.1% in social transfers in kind – purchased market production, and 1.2% in consumption of fixed capital. Lastly, purchases by households and enterprises increased by 15.5%.

Gross capital formation

Gross capital formation in 2020 at current market prices recorded the value of 3,704,041 million baht, consisting of 3,634,582 million baht of gross fixed capital formation and 65,459 million baht of the change in inventories.

In real terms, gross fixed capital formation shrank by 4.8%, compared with a 2.0% rise in 2019. The main factor was a decrease in the private sector's investment by 8.2%, in contrast to a 2.6 % growth in the prior year. Although, public investment rose by 5.1%, accelerating from an increase of 0.1% in 2019.

Investment (by type of institutions)

| | Value at current market prices (Million Baht) | | | Growth rate (real term) (%) | | |
|---------------------|--|------------------|------------------|--------------------------------|------------|-------------|
| | 2018 | 2019 | 2020 | 2018 | 2019 | 2020 |
| Construction | 1,268,279 | 1,297,282 | 1,311,503 | 3.2 | 1.5 | 1.8 |
| Private | 561,595 | 571,075 | 555,311 | 4.9 | 0.6 | -2.0 |
| Public | 706,684 | 726,207 | 756,192 | 1.8 | 2.3 | 4.9 |
| Equipment | 2,462,590 | 2,514,891 | 2,323,079 | 4.3 | 2.2 | -8.2 |
| Private | 2,211,535 | 2,278,324 | 2,072,808 | 4.2 | 3.1 | -9.7 |
| Public | 251,055 | 236,567 | 250,271 | 5.7 | -6.1 | 5.6 |
| Investment | 3,730,869 | 3,812,173 | 3,634,582 | 3.9 | 2.0 | -4.8 |
| Private | 2,773,129 | 2,849,400 | 2,628,119 | 4.3 | 2.6 | -8.2 |
| Public | 957,740 | 962,773 | 1,006,463 | 2.8 | 0.1 | 5.1 |

Private Investment

Private investment in 2020 at current market prices recorded the value of 2,628,119 million baht, consisting of 555,311 million baht of private construction and 2,072,808 million baht of private machinery and equipment. In real terms, private investment reduced by 8.2%, compared with a growth of 2.6% in 2019.

Private Investment

| | Value at current market prices (Millions Baht) | | | Growth rate (real term)(%) | | |
|--------------------------------|---|------------------|------------------|-------------------------------|------------|-------------|
| | 2018 | 2019 | 2020 | 2018 | 2019 | 2020 |
| Construction | 561,595 | 571,075 | 555,311 | 4.9 | 0.6 | -2.0 |
| Residential | 313,067 | 309,458 | 286,823 | 3.6 | -2.9 | -6.7 |
| Non-residential | 154,736 | 165,039 | 156,228 | 1.4 | 3.2 | -4.5 |
| Others | 74,370 | 77,657 | 95,683 | 19.7 | 10.7 | 24.2 |
| Cost of ownership transfer | 19,422 | 18,921 | 16,577 | 6.5 | -2.0 | -11.9 |
| Machinery and equipment | 2,211,535 | 2,278,324 | 2,072,808 | 4.2 | 3.1 | -9.7 |
| Private Investment | 2,773,129 | 2,849,400 | 2,628,119 | 4.3 | 2.6 | -8.2 |

Private construction at current market prices recorded the value of 555,311 million baht, consisting of 286,823 million baht of dwelling, 156,228 million baht of non-dwelling, and 95,683 million baht of other construction. In real terms, private construction fell by 2.0%, in contrast with a 0.6% rise in 2019. Dwelling construction fell by 6.7%, following a 2.9% drop in 2019, while non-dwelling construction declined by 4.5%, contrasting to a rise of 3.2% in the prior year. Nonetheless, other construction continuously rose by 24.2% from 10.7% last year. However, the cost of ownership transfer decreased by 11.9%, followed by a fall of 2.0% in 2019.

Private investment in equipment and machinery at current market prices recorded the value of 2,072,808 million baht, which, in real terms, plunged by 9.7%, in contrast with 3.1% growth in 2019. Such a negative result was exhibited in all sectors, especially in transporting equipment in accordance with a decrease in domestically registered new-car and the import of aircraft and train by the private sector. Furthermore, the machinery and equipment investment for industry and office decreased, following lower capital goods import, partly caused by the COVID-19 pandemic, which disrupted domestic and global economic activities and weakened the demand from internal trade and international trading partners. As a result, the private sector slowed or delayed its investment.

Public Investment

Public investment at current market prices recorded the value of 1,006,463 million baht, consisting of 756,192 million baht of public construction and 250,271 million baht of public machinery and equipment. In real terms, public investment expanded by 5.1%, accelerating from a 0.1% rise in 2019 due to higher disbursement of the government, while the disbursement of state enterprises reduced.

Public Investment

| | Value at current market prices (Million Baht) | | | Growth rate (real term)(%) | | |
|--------------------------------|--|----------------|------------------|-------------------------------|-------------|------------|
| | 2018 | 2019 | 2020 | 2018 | 2019 | 2020 |
| Construction | 706,684 | 726,207 | 756,192 | 1.8 | 2.3 | 4.9 |
| Dwellings | 15,166 | 17,374 | 12,066 | -2.8 | 12.7 | -26.6 |
| Non-dwellings | 134,742 | 139,027 | 123,759 | -0.1 | 0.2 | -6.0 |
| Others | 556,776 | 569,806 | 620,367 | 2.4 | 2.5 | 8.5 |
| Machinery and equipment | 251,055 | 236,567 | 250,271 | 5.7 | -6.1 | 5.6 |
| Public investment | 957,740 | 962,773 | 1,006,463 | 2.8 | 0.1 | 5.1 |

Public construction at current market prices recorded the value of 756,192 million baht, comprising 12,066 million baht of dwelling, 123,759 million baht of non-dwelling, and 620,367 million baht of other constructions. In real terms, public construction grew by 4.9%, continuing from a 2.3% rise in 2019. The government construction expanded by 8.3%, accelerating from 1.0% in 2019, particularly due to the disbursement for construction, repair, and improvement projects for roads and bridges by the Ministry of Transport and the other construction of the Ministry of Agriculture and Cooperative. Furthermore, a delay in promulgation of the 2020 Budget Act had disrupted the disbursement in the first quarter of the fiscal year, subsequently forcing the government to ramp up their disbursement in the latter half of the year and heightened the expenditure for government construction in 2020. As a result, the value of government construction this year was significantly higher than the previous year. Meanwhile, the construction from state enterprises fell by 1.4%, compared to a 4.7% drop in 2019. Most projects this year were ongoing projects such as the transmission line system construction of the Electricity Generating Authority of Thailand (EGAT), the Construction of Electricity Power Transmission System of the Provincial Electricity Authority (PEA), and the water pipeline system construction of the Provincial Waterworks Authority (PWA).

Public investment in machinery and equipment at current market prices recorded a value of 250,271 million baht. In real terms, public machinery and equipment rose by 5.6%, in contrast with a decline of 6.1% in 2019. The government equipment investment rose drastically by 23.4%, compared to a drop of 6.9% in 2019, partly contributed by an increase in the disbursement of durable articles from the government agencies not under the direct supervision of the Prime minister and ministries. However, the investment of state enterprises fell by 9.2%, compared with a 5.4% decrease last year due to none of the new major projects in 2020.

Investment (by type of assets)

| | Value at current market prices (Millions Baht) | | | Growth rate (real term)(%) | | |
|------------------------------------|---|------------------|------------------|-------------------------------|-------------|--------------|
| | 2018 | 2019 | 2020 | 2018 | 2019 | 2020 |
| Tangible fixed assets | 3,586,677 | 3,677,715 | 3,502,308 | 4.0 | 2.0 | -5.1 |
| Dwelling | 328,233 | 326,832 | 298,889 | 3.3 | -2.2 | -7.8 |
| Non-dwelling | 843,312 | 879,282 | 932,907 | 3.1 | 2.4 | 6.3 |
| Machinery and equipment | 2,404,830 | 2,459,967 | 2,260,765 | 4.4 | 2.3 | -8.8 |
| Cultivated assets | 10,302 | 11,634 | 9,747 | 21.4 | 10.7 | -17.2 |
| Intangible fixed assets | 124,770 | 115,537 | 115,697 | 1.7 | 3.1 | 6.3 |
| Mineral exploration | 75,725 | 70,666 | 60,364 | 3.4 | 9.6 | -6.0 |
| Software | 49,045 | 44,871 | 55,333 | -0.5 | -7.0 | 25.6 |
| Costs of ownership transfer | 19,422 | 18,921 | 16,577 | 6.5 | -2.0 | -11.9 |
| Investment | 3,730,869 | 3,812,173 | 3,634,582 | 3.9 | 2.0 | -4.8 |

Investment classified by type of assets

Tangible fixed assets at current market prices recorded the value of 3,502,308 million baht, consisting of 298,889 million baht of dwelling construction, 923,907 million baht of non-dwelling construction, 2,260,765 million baht of machinery and equipment, and 9,747 million baht of cultivated assets. In real terms, the investment in tangible fixed assets decreased by 5.1%, in contrast to a 2.0% rise in 2019, affected by a 7.8% reduction in dwelling construction, continuing from a drop of 2.2% in 2019. Meanwhile, non-dwelling construction increased by 6.3%, following a 2.4% rise in 2019. Although machinery and equipment and cultivated assets investment shrank by 8.8% and 17.2%, reducing from an increase of 2.3% and 10.7% in 2019, respectively.

Intangible fixed assets at current market prices recorded the value of 115,697 million baht, comprising 60,364 million baht in mineral exploration and 55,333 million baht in computer software. In real terms, the investment in intangible assets expanded by 6.3%, growing faster from a 3.1% increase in 2019, mainly driven by a 25.6% surge in the expense for computer software, compared to a reduction of 7.0% in 2019.

Costs of ownership transfer at current market prices recorded the value of 16,577 million baht. In real terms, it decreased by 11.9%, continuously dropping from a 2.0% decrease in 2019.

Change in inventories

Change in inventories at current prices rose with the value of 69,459 million baht in 2020. The accumulated stock consists of agricultural products, manufacturing products, and crude oil, whereas the stock level of rice and gold decreased. The increased stock level of agriculture products included paddy, rubber, and cassava, while the increased crude oil stock resulted from reduced refined petroleum products. In addition, the import of crude oil also increased. Meanwhile, the accumulated stock of manufacturing products included computers and peripheral equipment, electronic components and circuit boards, and jewelry and related articles. In particular, the stock level of electronic components and circuit boards has piled up due to the impact of the coronavirus epidemic (COVID-19) and the US-China trade protectionism policy that adversely affects global trade. These factors led to a slowdown of demand from trading partners of Thailand. As a result, manufacturing products for exports were affected, including electronic products. On the contrary, the decline in the stock of manufacturing products covered motor vehicles, refined petroleum products, and sugar. The inventory of gold dramatically decreased due to higher export in response to a rise in prices of gold in the world market.

External Sectors

Exports of goods and services decreased.

Exports of goods and services

Exports of goods and services at current market prices in 2020 presented the value of 8,064,408 million baht, which declined by 19.8% deeper than a 5.3% drop last year. The reduction was mainly attributable to a slump in service receipts and exports of goods.

Merchandise exports at current market prices disclosed the value of 7,099,300 million baht, reduced by 5.8%, owing to a decrease in all three export categories, which comprised agriculture, fishery, and manufacturing. Agricultural products fell mainly resulting from a reduction in rubber and rice exports. Rubber exports declined on account of lower demand from China. Exports of rice diminished due to higher prices than the competitors; moreover, a large amount of rice was offloaded from China's rice stock to African markets. However, African Swine Fever (ASF) spread in swine farming in China and Asia Pacific countries induced high demand for chicken and pork meat from Thailand. In addition, the export of fruits is highly expanded by massive demand in durians from China. Tapioca export also heightened from a bounty of demand from China which used tapioca as a raw material for ethanol production instead of maize.

Manufacturing exports contracted attributed mainly to a reduction in the automotive product, which consisted of cars, pickup trucks, and vehicle parts, drastically declined due to temporary shutdown in automobile plants due to a supply shortage of main parts and less demand from most regions, particularly ASEAN, the Middle East, and Australia. Furthermore, other major manufacturing products, for instance, integrated circuits, computer parts, machinery, and petrochemicals, are diminished by lower domestic demand in various trading partner countries.

However, the exports of agroindustry products such as vegetables, fruits, and fish in cans increased by the great demand for preserved food during pandemics and lockdowns. In addition, electronic products and parts of electrical appliances exports expanded, which is partly the effect of working from home. Furthermore, rubber glove exports also built up because of profuse demand in the pandemic period.

In addition, persistently high gold prices led to a sharp increase in gold exports which kept overall exports performance from deeper contraction. Meanwhile, overall export of goods in terms of quantity dropped by 5.8%, compared to a 3.7% decrease in the preceding year.

Service receipts at current market prices posted the value at 965,108 million baht, shrank by 61.7%. The contraction resulted from an extreme drop in travel and passenger service receipts due to limited foreign tourist arrivals due to international transportation restrictions on COVID-19 surveillance. However, Special Tourist Visa (STV) was implemented at the end of the year.

Imports of goods and services

Imports of goods and services declined.

Imports of goods and services at current market prices in 2020 unveiled the value of 7,232,373 million baht, dropped by 14.6%, deeper than a 7.6% decrease in 2019. This contraction originated from a massive decline in both imports of goods and service receipts.

Merchandise imports at current market prices recorded a value of 5,818,030 million baht, which fell by 13.3%, more profound than a 9.3% reduction in the prior period. Consumer goods diminished mainly due to fewer households' purchasing power, particularly textiles. A reduction in manufacturing production, especially in export-oriented industries, resulted from smaller imports of raw material and intermediate goods, specifically in vehicles and computer parts. Furthermore, restrictions in transportation and economic activities to inhibit the spread of COVID-19 partly resulted in lower fuel imports. Capital goods imports decreased, especially machinery in accordance with investment demand in industrial equipment. Furthermore, the overall import quantity of goods dropped by 10.6%.

Service payments at current market prices displayed a value of 1,414,343 million baht, which declined by 19.9%. International flight restrictions to prevent the spread of COVID-19 brought about low passenger transportation and travel payments. In addition, other business service payments also dropped.

Trade and services balance and current account

Lower surplus in trade and service balance. Surplus in current account.

Trade and services balance at current market prices revealed a surplus of 832,035 million baht, lower than 1,578,846 million baht in 2019. The trade balance registered a surplus of 1,281,270 million baht, more prominent than a surplus of 826,931 million baht in the preceding year, while the service balance presented a deficit of 449,235 million baht, in contrast to a surplus of 751,915 million baht from last year. Primary income posted a deficit of 359,068 million baht, which improved from a deficit of 627,510 million baht in the previous year due to lower deficits of net investment income and net compensation of employees. Secondary income showed a surplus of 189,300 million baht, lower than a surplus in the previous year. Ultimately, the current account comprises trade balance, service balance, primary income, and secondary income, registered a surplus of 662,268 million baht, less than a surplus of 1,174,836 million baht in 2019.

Trade and services balance and current account at current market prices

| Items | Value at current market prices (Million Baht) | | | Growth rate (%) | | |
|-----------------------------------|--|-------------------|------------------|-----------------|-------------|--------------|
| | 2018 | 2019 | 2020 | 2018 | 2019 | 2020 |
| Exports | 10,616,163 | 10,052,248 | 8,064,408 | 2.8 | -5.3 | -19.8 |
| Goods | 8,114,859 | 7,534,817 | 7,099,300 | 2.5 | -7.1 | -5.8 |
| Services | 2,501,304 | 2,517,431 | 965,108 | 4.0 | 0.6 | -61.7 |
| Imports | 9,169,690 | 8,473,402 | 7,232,373 | 9.2 | -7.6 | -14.6 |
| Goods | 7,394,423 | 6,707,886 | 5,818,030 | 8.5 | -9.3 | -13.3 |
| Services | 1,775,267 | 1,765,516 | 1,414,343 | 12.2 | -0.5 | -19.9 |
| Trade and services balance | 1,446,473 | 1,578,846 | 832,035 | | | |
| Percentage to GDP (%) | 8.8 | 9.3 | 5.3 | | | |
| Primary income | -793,104 | -627,510 | -359,068 | | | |
| Secondary income | 258,762 | 223,501 | 189,300 | | | |
| Current account balance | 912,131 | 1,174,837 | 662,267 | | | |
| Percentage to GDP (%) | 5.6 | 7.0 | 4.2 | | | |

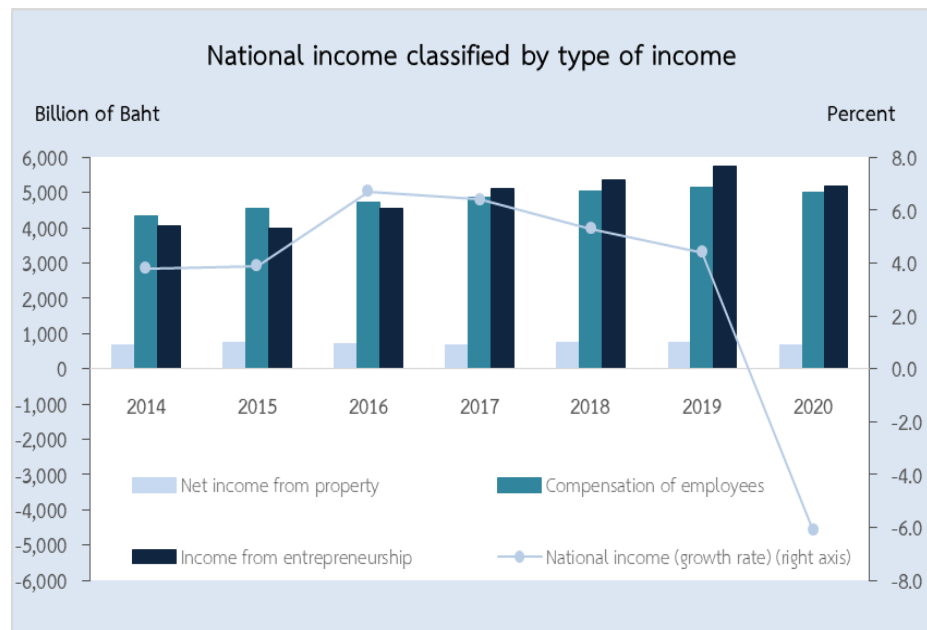
Exchange rate

The exchange rate presented an average value at 31.3 Thai Baht per U.S. Dollar in 2020, depreciating from 31.0 Thai Baht per U.S. Dollar in 2019.

National income and savings

National income

Gross National Income in 2020 recorded value at 15,277,823 million baht, fell by 6.1%, dropping from a 4.4% rise in 2019. The compensation of employees accounted for 32.7% of gross national income, decreased by 3.3%. Return on capital, land, and entrepreneurship, 38.4% of gross national income, decreased by 9.8%, principally due to a reduction in both returns on entrepreneurship and net return on income from property. In addition, taxes on production and imports less subsidies diminished by 14.0%, while consumption of fixed capital increased by 2.1%.



| Type of income | Value at current market prices (Millions Baht) | | | Growth rate (%) | | |
|--|---|-------------------|-------------------|--------------------|------------|-------------|
| | 2018 | 2019 | 2020 | 2018 | 2019 | 2020 |
| Compensation of employees | 5,044,149 | 5,165,112 | 4,992,748 | 3.9 | 2.4 | -3.3 |
| Income from property and entrepreneurship | 6,116,401 | 6,500,182 | 5,861,454 | 5.7 | 6.3 | -9.8 |
| Income from property (Net) | 741,193 | 753,618 | 666,199 | 8.1 | 1.7 | -11.6 |
| • Households & Non-profit institutions | 709,630 | 729,112 | 683,313 | 7.2 | 2.7 | -6.3 |
| • Government | 31,563 | 24,506 | -17,114 | 33.4 | -22.4 | -169.8 |
| Income from entrepreneurship | 5,375,208 | 5,746,564 | 5,195,255 | 5.4 | 6.9 | -9.6 |
| • Households & Non-profit institutions | 3,185,106 | 3,469,016 | 3,145,112 | 5.6 | 8.9 | -9.3 |
| • Corporations | 2,190,102 | 2,277,548 | 2,050,143 | 5.1 | 4.0 | -10.0 |
| Taxes on production and import less subsidies | 1,644,282 | 1,687,064 | 1,450,358 | 7.7 | 2.6 | -14.0 |
| Consumption of fixed capital | 2,775,404 | 2,912,542 | 2,973,263 | 5.6 | 4.9 | 2.1 |
| National income | 15,580,236 | 16,264,900 | 15,277,823 | 5.3 | 4.4 | -6.1 |
| Population (1,000 persons) | 69,107 | 69,315 | 69,509 | 0.4 | 0.3 | 0.3 |
| National income per capita (Baht) | 225,451 | 234,652 | 219,796 | 4.8 | 4.1 | -6.3 |

Compensation of employees

Overall compensation of employees dropped by 3.3%, from a 2.4% increase in 2019.

Compensation of employees or return on labor in 2020 presented value of 4,992,748 million baht, which was equivalent to 32.7% of Gross National Income (GNI), decreased by 3.3%, compared to a 2.4% rise in 2019. The compensation of employees in the public sector expanded by 1.1%, decelerating from the previous year, while the compensation of employees in the private sector decreased by 5.8%. On the other hand, the compensation of employees can be divided into two parts as follow (1) wages and salaries decreased by 3.7% and (2) employer's contribution in social security fund, and other welfare shrank by 1.1%. In 2020, new minimum wage promulgation increased minimum wages by approximately 5-6 baht per day in each province. As a result, the average country minimum wage grew by 1.8%. However, the spread of COVID-19 led to lower economic activities and employment. Hence, the new minimum wage slightly affected the overall compensation of employees. While special salary account adjustment in the government sector was not applied, only usual salary increases were considered. In addition, a labor force survey by the National Statistical Office (NSO) in 2020 indicated the total number of employed persons slightly grew up by the rate of 0.2%. The number of employed persons with employee status narrowly decreased by 0.3%. Public sector employees rose by 2.6%, while private-sector employees, accounted for 80.8% of total employment, declined by 1.0%.

Compensation of employees by economic activities

| Sector | Value at current prices (Millions Baht) | | | Growth rate (%) | | |
|---|--|------------------|------------------|--------------------|-----------------|-------------|
| | 2018 | 2019 | 2020 | 2018 | 2019 | 2020 |
| Agricultural sector | 202,856 | 208,407 | 207,622 | 3.2 | 2.7 | -0.4 |
| Agriculture, forestry and fishing | 202,856 | 208,407 | 207,622 | 3.2 | 2.7 | -0.4 |
| Non-agricultural sector | 4,837,870 | 5,032,027 | 4,855,544 | 4.1 | 4.0 | -3.5 |
| Industrial | 1,468,439 | 1,497,777 | 1,416,578 | 3.9 | 2.0 | -5.4 |
| Manufacturing | 1,312,854 | 1,332,186 | 1,271,315 | 3.6 | 1.5 | -4.6 |
| Others | 155,585 | 165,591 | 145,263 | 6.6 | 6.4 | -12.3 |
| Services | 3,369,431 | 3,534,250 | 3,438,966 | 4.1 | 4.9 | -2.7 |
| Construction | 202,241 | 205,894 | 207,601 | 0.7 | 1.8 | 0.8 |
| Wholesale and retail trade; repair of motor vehicles and motorcycles | 489,851 | 522,242 | 510,275 | 3.1 | 6.6 | -2.3 |
| Transportation and storage | 191,887 | 205,178 | 170,430 | 4.9 | 6.9 | -16.9 |
| Accommodation and food service activities | 182,710 | 199,688 | 131,656 | 10.0 | 9.3 | -34.1 |
| Financial and insurance activities | 341,666 | 360,448 | 346,850 | 4.5 | 5.5 | -3.8 |
| Public administration and defence; compulsory social security | 705,506 | 733,326 | 762,616 | 4.0 | 3.9 | 4.0 |
| Education | 613,999 | 635,849 | 647,561 | 4.6 | 3.6 | 1.8 |
| Human health and social work activities | 286,333 | 300,377 | 311,498 | 3.9 | 4.9 | 3.7 |
| Others | 355,238 | 371,248 | 350,479 | 3.3 | 4.5 | -5.6 |
| The rest of the world | 3,423 | -75,322 | -70,418 | -63.0 | -2,300.5 | 6.5 |
| Total | 5,044,149 | 5,165,112 | 4,992,748 | 3.9 | 2.4 | -3.3 |

The compensation of employees was lower in both agricultural and non-agricultural sectors.

Private sector and public sector compensation of employees

Public sector compensation of employees, which was 37.1% of total compensation of employees increased by 1.1%, compared to a 5.0% rise in the preceding year. The compensation of employees of government officers increased by 3.9%, lower than 4.1% previously; on the contrary, that of state enterprises dropped by 12.6%, opposed to an increase of 9.6% in the previous year. Compensation of employees of the private sector (net compensation of employees from abroad included), accounting for 62.9% of total compensation of employees, contracted by 5.8%, falling from a 1.0% rise in the prior year.

Compensation of employees by economic activities

Compensation of employees in the agricultural sector presented value at 207,622 million baht, 4.2% of total compensation of employees, decreased by 0.4%, from a 2.7% rise in 2019 as the agricultural output decreased, especially for plantations affected by drought. In addition, average annual precipitation was lower than usual, resulting in a lower planting area of main crops, particularly paddy. Consequently, these factors resulted in lessening the employment level and compensation of employees in the agricultural sector.

Compensation of employees in the non-agricultural sector recorded a value of 4,855,544 million baht, 97.3% of total compensation of employees, decreased by 3.5%, from a 4.0% rise in 2019. This reduction can be observed in both the industrial and service sectors.

Compensation of employees in the industrial sector, 28.4% of total compensation of employees dropped by 5.4%, compared to a rise of 2.0% in 2019. The most significant proportion was manufacturing, in which the compensation of employees descended by 4.6%, falling from a rise of 1.5% in 2019. Compensation of employees in mining and quarrying declined by 11.0%, more profound than a decrease of 0.1% in the preceding year. Compensation of employees in electricity, gas, steam and air conditioning supply, and water supply; sewerage, waste management, and remediation activities, fell by 13.4%, and 5.1%, respectively.

The compensation of employees in the service sector, accounting for 68.9% of total compensation of employees, dropped by 2.7%, in contrast to a rise of 4.9% in 2019. Compensation of employees in public administration and defence; compulsory social security, human health and social work activities, and education presented an increase at the rate of 4.0%, 3.7%, and 1.8%, respectively, which mainly contributed by an expansion in the government sector which was the largest proportion in these three activities. Compensation of employees in construction expanded by 0.8%, decelerating from a 1.8% rise in the previous year. In contrast, compensation of employees in accommodation and food service activities, transportation and storage activities, and wholesale and retail trade; repair of motor vehicles and motorcycles remarkably declined by 34.1%, 16.9%, and 2.3%, respectively, directly affected by the COVID-19 pandemic and international travel restriction measures both in Thailand and the rest of the world. Compensation of employees in financial and insurance activities dropped by 3.8%, compared to a rise of 5.5% in the prior year. Such a decrement originated from lower compensation of employees in financial service activities, especially in commercial banks and insurances activities. In contrast, compensation of employees in activities auxiliary to financial service and insurance activities continued to expand. Moreover, compensation of employees in other services activities declined by 5.6%, contrasted with a 4.5% rise in the previous year.

*Net compensation of employees from the rest of the world*¹ recorded a deficit value at 70,418 million baht. Compensation of employees from the rest of the world registered at 32,241 million baht, less than 102,659 million baht of compensation of employees to the rest of the world, resulting in a deficit of net compensation of employees from the rest of the world.

¹ For the coverage to be more complete, the Bank of Thailand has revised its compilation method of compensation of employees from (to) rest of the world in 2020.

Returns on land, capital, and entrepreneurs

Net return on land, capital, and entrepreneurship valued at 5,861,454 million baht, equivalence to 38.4% of gross national income, shrank by 9.8%, falling from a 6.3% rise in 2019.

Income from farming and households and non-profit institutions serving households (NPISHs): gross mixed income valued at 3,145,112 million baht, accounted for 20.6% of gross national income, decreased by 9.3%, from an increase of 8.9% in 2019. Income from farming contracted by 0.5%, dwindling from a 1.9% rise in the preceding year. Such a reduction was mainly due to the lower quantity of agricultural products, particularly paddy, sugar cane, rubber, and maize, while overall agricultural product prices increased. Furthermore, other mixed income also reported descending trend owing to the effect of the COVID-19 pandemic on the overall economy.

Income from entrepreneurship or profit of corporations recorded the value of 2,050,143 million baht, declined by 10.0%, due to the reduction in both net savings of private corporations and state enterprises.

Net income from property of households and non-profit institutions serving households (NPISHs) valued at 683,313 million baht, decreased by 6.3%, from an increase of 2.7% in 2019, mainly due to a drop in property income receipt at a higher rate than the decrease of property income payment.

Households and private non-profit institutions income from property

| Item | Growth rate (%) | | | Structure (%) | | |
|-------------------|-----------------|------------|-------------|---------------|--------------|--------------|
| | 2018 | 2019 | 2020 | 2018 | 2019 | 2020 |
| Income | | | | | | |
| Interest received | 1.3 | 6.4 | -10.3 | 21.7 | 22.3 | 21.1 |
| from banks | 0.1 | 6.5 | -11.5 | 18.9 | 19.4 | 18.2 |
| from others | 10.8 | 6.2 | -2.6 | 2.8 | 2.9 | 3.0 |
| Dividends | 8.8 | 2.8 | -8.4 | 52.6 | 52.1 | 50.4 |
| Rent | 3.6 | 1.9 | 2.3 | 7.7 | 7.6 | 8.2 |
| Others | 7.1 | 4.4 | 6.6 | 18.0 | 18.1 | 20.3 |
| Total | 6.4 | 3.8 | -5.3 | 100.0 | 100.0 | 100.0 |
| Expense | | | | | | |
| Interest paid | 5.2 | 7.0 | -4.7 | 66.3 | 67.2 | 66.4 |
| Rent | 3.6 | 1.9 | 2.3 | 21.6 | 20.8 | 22.1 |
| Others | 4.8 | 4.6 | -7.8 | 12.1 | 12.0 | 11.5 |
| Total | 4.8 | 5.6 | -3.6 | 100.0 | 100.0 | 100.0 |

Households and NPISHs property income receipt posted value at 1,083,717 million baht, decreased by 5.3%, compared to the growth rate of 3.8% in 2019, resulting from decreases in several items. Income from interest receipts dropped by 10.3%, compared to a 6.4% rise in 2019, driven by an 11.5% contraction in interest receipts from banks, compared to a 6.5% increase in 2019. Interest receipts from commercial banks dropped by 26.6%, including Government Saving Bank, Government Housing Bank, and Bank for Agriculture and Agricultural Cooperatives. Such lower interest receipts were in line with decreasing interest rates in 2020. On the contrary, average deposits of households increased due to economic uncertainty inducing households to convert their assets into deposits, partly reserving for an upcoming expense. In addition, other interest income reduced from 2019, for example, a drop in interest from cooperatives and sales on consignment. Household dividends receipts from the business sector fell by 8.4%, from a 2.8% expansion in the previous year, mainly contributed by a 9.1% decrease in dividends from private corporations. Income from rent of farming area, and other receipts expanded by 2.3%, and 6.6%, respectively.

Households and NPISHs property income payment posted value at 400,404 million baht, decreased by 3.6%, dropped from a 5.6% rise in 2019. Such a decrease was mainly from interest payment, the main payment item, lessened by 4.7%, compared to a rise of 7.0% in the previous year, which originated from a decrease in interest payment for banks, in line with a lower interest rate for the loan than the preceding year, in the same direction with a policy rate of the central bank. Moreover, interest payments for credit card loans and mortgage loans also decreased. On the other hand, rent for the agricultural area expanded slightly.

General government income from property declined by 19.4%, compared to a 1.3% rise in 2019. The income from rent, interest received, and dividends accounted for 77.9% of government income from property, decreased by 22.2%, compared to an increase of 0.6% in 2019. It included dividends which declined by 25.4%, in contrast with a 5.4% rise in the prior year. Reduction in dividends mainly comprised dividends received from income of service department, income of special state enterprises, income of transportation department, and income from public agencies which are corporations. Interest received dropped by 8.0%, compared to a 5.2% increase in 2019, partly reduced loan interest of Education Loan Funds and deposit interest received from financial institutions. Additionally, a 37.1% decrease in rental income resulted from a fall in real estate rental fees. Moreover, the Special Remunerator Benefit, a form of tax levied on the annual petroleum profit from a petroleum block, also decreased.

General government income from property

| Item | Growth rate (%) | | | Structure (%) | | |
|---|-----------------|-------|-------|---------------|-------|-------|
| | 2018 | 2019 | 2020 | 2018 | 2019 | 2020 |
| Rent | 14.8 | -49.5 | -37.1 | 7.1 | 3.5 | 2.8 |
| Interest received | -3.8 | 5.2 | -8.0 | 16.8 | 17.4 | 19.9 |
| From Banks | -5.8 | 6.8 | -13.2 | 13.0 | 13.7 | 14.8 |
| From others | 3.8 | 0.0 | 11.2 | 3.8 | 3.7 | 5.1 |
| Dividend | 11.7 | 5.4 | -25.4 | 57.4 | 59.7 | 55.2 |
| Sub total | 8.4 | 0.6 | -22.2 | 81.3 | 80.6 | 77.9 |
| Investment income on pension entitlement | 4.8 | 4.6 | -7.8 | 18.7 | 19.4 | 22.1 |
| Total | 7.7 | 1.3 | -19.4 | 100.0 | 100.0 | 100.0 |

Saving and saving - investment gap

Gross saving posted value at 4,366,309 million baht, decreased by 16.0%, compared to a 3.1% rise in 2019. Net saving posted value at 1,402,559 million baht dropped by 42.5%, in contrast with an increase of 1.1% in 2019. The reduction could be observed in both the private and public sectors. The major contributor was mainly attributable to a deficit in government net saving of 981,549 million baht, which increased from 127,008 million baht in 2019. Meanwhile, state enterprises, corporations, and households and NPISHs showed their net savings lessened. Consumption of fixed capital valued at 2,973,263 million baht increased by 2.1%, decelerated from a 4.9% rise in 2019.

Saving and gross capital formation

| Item | Value at current price (Millions Baht) | | | Growth rate (%) | | |
|---|---|------------------|------------------|--------------------|-------------|--------------|
| | 2017 | 2018 | 2019 | 2017 | 2018 | 2019 |
| Gross capital formation | 4,129,293 | 4,021,365 | 3,704,041 | 16.2 | -2.6 | -7.9 |
| • Private sector | 2,773,129 | 2,849,400 | 2,628,119 | 4.5 | 2.8 | -7.8 |
| • Public sector | 957,740 | 962,773 | 1,006,463 | 3.5 | 0.5 | 4.5 |
| • Change in inventories | 398,424 | 209,192 | 69,459 | | | |
| Gross saving | 5,041,423 | 5,196,201 | 4,366,309 | 0.0 | 3.1 | -16.0 |
| • Net saving | 2,410,687 | 2,437,197 | 1,402,559 | 4.0 | 1.1 | -42.5 |
| • Depreciation | 2,775,404 | 2,912,542 | 2,973,263 | 5.6 | 4.9 | 2.1 |
| • Discrepancy | 144,668 | 153,538 | 9,513 | | | |
| Saving-investment gap | 912,130 | 1,174,836 | 662,268 | -38.8 | 28.8 | -43.6 |
| Saving-investment gap to GDP (%) | 5.6 | 7.0 | 4.2 | | | |

Private sector net savings

Private sector net savings comprises net savings of households and NPISHs, private corporations, and cooperatives, presented the value of 2,119,903 million baht, decreased by 3.7%, from a 3.5% drop in 2019.

1) Net savings of households and non-profit institutions serving households (NPISHs)

Net savings of households and NPISHs valued at 911,145 million baht, dropped by 0.3% due to their revenue lessening, leading to less disposable income than the preceding year. In addition, private final consumption expenditure also decreased from 2019, after making the adjustment for the change in pension entitlements decreased by 23.6%; hence net savings of households and NPISHs revealed lower value.

Households and NPISHs income valued at 10,773,100 million baht decreased by 1.4%. Primary income receivable, the principal source of income, consists of (1) compensation of employees, accounted for 46.3% of households and NPISHs income, decreased by 3.3%, in contrast to an increase of 2.4% in 2019 (2) property income decreased by 5.3%, dropped from a 3.8% rise in 2019, owing to a decline in dividend and interest from banks, diminished in line with lower interest rate. (3) gross operating surplus and households mixed income, accounting for 31.2% of total income, decreased by 8.8%, from an 8.5% rise in 2019. After including compensation of employees, property income, and gross operating surplus, primary income receivable decreased by 5.6%, from a 4.7% drop in 2019. Secondary income receivable comprises social benefit other than social transfers in kind and other current transfers boosted up by the rate of 43.2%, from a 14.2% rise in 2019, due partly to numerous transfers from the government to households to reduce the cost of living and alleviate the impact of the COVID-19 pandemic.

Personal income, expenditure and saving

| Item | Value at current prices (Millions Baht) | | | Growth rate (%) | | |
|--|--|------------------|------------------|--------------------|------------|-------------|
| | 2018 | 2019 | 2020 | 2018 | 2019 | 2020 |
| Personal income | 10,358,473 | 10,925,761 | 10,773,100 | 5.2 | 5.5 | -1.4 |
| Personal outlay | 1,383,938 | 1,546,445 | 1,463,753 | 5.5 | 11.7 | -5.3 |
| Disposable personal income | 8,974,535 | 9,379,316 | 9,309,347 | 5.1 | 4.5 | -0.7 |
| <u>Less</u> Private consumption expenditure | 8,004,686 | 8,406,495 | 8,301,572 | 5.6 | 5.0 | -1.2 |
| <u>Plus</u> Adjustment for the change in pension entitlement | 149,191 | 153,770 | 117,445 | 3.3 | 3.1 | -23.6 |
| <u>Less</u> Consumption of fixed capital | 208,647 | 213,101 | 214,075 | 1.6 | 2.1 | 0.5 |
| Net savings | 910,393 | 913,490 | 911,145 | 1.4 | 0.3 | -0.3 |
| Net Disposable income per capita (Baht) | 126,845 | 132,240 | 130,850 | 4.7 | 4.3 | -1.1 |
| Personal outlay per capita (Baht) | 115,830 | 121,280 | 119,432 | 5.2 | 4.7 | -1.5 |
| Personal savings per capita (Baht) | 13,174 | 13,179 | 13,108 | 0.9 | 0.0 | -0.5 |

Inevitable expenses, comprising primary and secondary income payments, valued at 1,463,753 million baht, declined by 5.3%, falling from a rise of 11.7% in 2019. The main expenses were property income payable, income taxes, and net social security contribution, which dropped by 3.6%, 5.7%, and 4.3%, respectively, in contrast to increases of 5.6%, 9.1%, and 7.6% in 2019. Moreover, transfer costs to the government and the rest of the world decreased by 12.3%; consequently, inevitable expenses of households and NPISHs dropped.

Households and NPISHs' disposable income decreased by 0.7%, in contrast to a 4.5% rise in 2019. Furthermore, after deducting by private final consumption expenditure and making the adjustment for the change in pension entitlements, net savings of households and NPISHs were reduced by 0.3%. In other words, per capita net savings of households and NPISHs posted value at 13,108 baht decreased by 0.5%.

2) Net savings of private corporations and cooperatives

Net savings of private corporations and cooperatives valued at 1,208,758 million baht, contracted by 6.1%, slightly more than a 6.0% reduction in 2019. Net savings of private corporations registered at 1,196,226 million baht decreased by 6.2%, compared to a 6.1% drop in 2019, as a result of the reduction in business profits of listed companies in the Stock Exchange of Thailand (private commercial banks and public corporations excluded) in accordance with the conceptual framework of national accounts. Moreover, turnovers of other private corporations and net international transfers declined from 2019. On the contrary, cooperatives presented net savings at 12,532 million baht, increased by 7.3%, accelerating from a 3.1% rise in 2019.

Net saving

| Item | Value at current prices (Millions Baht) | | | Growth rate (%) | | |
|---------------------------------|--|------------------|------------------|--------------------|-------------|---------------|
| | 2018 | 2019 | 2020 | 2018 | 2019 | 2020 |
| Net savings | 2,410,687 | 2,437,197 | 1,402,559 | 4.0 | 1.1 | -42.5 |
| Private sector | 2,279,656 | 2,200,494 | 2,119,903 | 2.0 | -3.5 | -3.7 |
| • Households | 910,393 | 913,490 | 911,145 | 1.4 | 0.3 | -0.3 |
| • Corporations & cooperatives | 1,369,263 | 1,287,004 | 1,208,758 | 2.5 | -6.0 | -6.1 |
| Public sector | 131,031 | 236,703 | -717,344 | 56.0 | 80.6 | -403.1 |
| • Government | -73,158 | -127,008 | -981,549 | 52.2 | -73.6 | -672.8 |
| • Enterprises | 204,189 | 363,711 | 264,205 | -13.8 | 78.1 | -27.4 |
| Gross saving | 5,041,423 | 5,196,201 | 4,366,309 | 0.0 | 3.1 | -16.0 |
| Gross savings to GDP (%) | 30.8 | 30.8 | 27.9 | | | |

Public sector net savings

Public sector net savings consisting of the general government, public corporations, and government enterprises presented a deficit at 717,344 million baht, significantly diminished from a surplus of 236,703 million baht in 2019. Thoroughly, government net savings recorded a deficit at 981,549 million baht, more profound than a deficit of 127,008 million baht in 2019. On the other hand, the net savings of public corporations and government enterprises posted a surplus of 264,205 million baht, decreased by 27.4%, in contrast to an expansion in the preceding year.

1) General government net savings

General government net savings recorded the deficit of 981,549 million baht, highly increasing from a deficit of 127,008 million baht in 2019, considered the seventh consecutive year deficit. General government revenue amounted to 4,380,660 million baht, a decrease of 8.6%, opposed to an increase of 2.8% in 2019. The decline was from taxes, the government's primary income, which dropped by 12.5%. Meanwhile, government expenditure on non-investment items posted at 4,927,241 million baht, which grew by 10.6%. After making the adjustment for the change in pension entitlements with the value of 117,445 million baht with a decrease of 23.6%, and 317,522 million baht of consumption of fixed capital with an increase of 2.4%; consequently, general government net savings decreased significantly by 672.8%, which resulted in a higher deficit in net savings.

A reduction in general government income in 2020 came mainly from decreases in taxes on production and imports, property income from the government, current taxes on income and wealth, which could be categorized as follows:

General government income, expenditure and savings

| Item | Value at current prices (Million Baht) | | | Growth rate (%) | | |
|--|---|-----------------|-----------------|--------------------|--------------|---------------|
| | 2018 | 2019 | 2020 | 2018 | 2019 | 2020 |
| General government income | 4,662,163 | 4,792,268 | 4,380,660 | 5.8 | 2.8 | -8.6 |
| General government expenditure | 1,637,269 | 1,723,253 | 2,137,512 | 2.1 | 5.3 | 24.0 |
| Disposable general government income | 3,024,894 | 3,069,015 | 2,243,148 | 7.9 | 1.5 | -26.9 |
| <u>Less</u> Final consumption expenditure | 2,648,220 | 2,732,166 | 2,789,730 | 4.9 | 3.2 | 2.1 |
| <u>Less</u> Adjustment for the change in pension entitlement ^{1/} | 149,191 | 153,770 | 117,445 | 3.3 | 3.1 | -23.6 |
| <u>Less</u> Consumption of fixed capital | 300,641 | 310,087 | 317,522 | 4.9 | 3.1 | 2.4 |
| General government net savings | -73,158 | -127,008 | -981,549 | 52.2 | -73.6 | -672.8 |

Remark 1/ only government funds such as social security fund (in the case of child allowance and old age), aid fund, Bangkok Metropolitan Administration pension fund, and local administration pension fund

Taxes on production and imports are the primary source of revenues, 34.9% of total general government revenue, decreased by 12.4%. The contraction of tax revenue was from (1) Value Added Taxes (VAT) due to a fall in Value Added Taxes on consumption and imports. VAT on consumption decreased due to lower consumption resulting from the subsided economic condition. Sectors of which VAT collection decreased were retail trade, building construction, crude oil extraction and natural gas, warehousing and supporting activities for logistics, manufacturing of trailers and semi-trailers, food service, beverage, real estate, and hotels. Sectors of which VAT collection expanded were the financial sector, electricity, gas, steam and air conditioning sector, wholesale sector, auto and bicycle repair sector, coal and petroleum refinery sector, insurance and reinsurance sector, and other products made from the non-metallic minerals sector. For VAT on imports, the decrease resulted from lower imports regarding the COVID-19 pandemic and the China-US trade war, which adversely affected international trade. Moreover, the Thai Baht appreciated, and Dubai Crude Oil Price decreased by 27.8%. (2) Import duties (3) Excise tax on imports (4) Motor vehicle tax decreased as a result of economic contraction leading to lower car sales, together with stringent car loan approvals (5) Petroleum royalty (6) Beer tax dropped in line with consumption and delayed tax payment from business operators. (7) Liquor tax fell as the government banned the sale of alcohol in April 2020 as a part of COVID-19 prevention measure (8) Specific business tax shrank in accordance with the contraction in real estate sales and a decrease of commercial banks revenue from lower policy rate at 0.5 percent (9) Oil and petroleum products taxes (10) The income of 23.0 percent of the lottery sales and interest (11) Tobacco stamps.

Property income from government and investment income payable on pension entitlements accounted for 4.7% of total government revenue, decreased by 19.4%. The decline was driven by the income from dividends with the share of 55.2% of total government property income, decreased by 25.4%, partly due to lower income from the department of service, the dividend of state enterprises, income of special public agencies, income from the department of transportation, and income from state enterprises which were corporations. Meanwhile, other property income, namely investment income payable on pension entitlements, decreased by 7.8% due to declining interest and dividend received (child allowance and old-age program) from the social security fund. In addition, interest income fell by 8.0%, driven by the declining interest of student loans, social security funds, and deposits of financial institutions. Moreover, rental income decreased by 37.1%, attributed partly to a fall in real estate rental fees. Also, Special Remunerators Benefits, a form of tax levied on the annual petroleum profit from a petroleum block, also decreased.

Current taxes on income, wealth, and etc., accounted for 21.6% of total government revenue, which decreased by 12.5%. Tax revenue contraction was from a reduction in main categories. The corporate income tax reduced by 18.8% due partly to (1) Tax collection on net profit and forecasted net profit decreased by 11.0%, following a decline in the tax collection on net profit in 2019 and forecasted net profit in the first half of 2020 as the slowdown of economic condition in the first half of 2020 partly resulting from the COVID-19 pandemic. (2) Withholding tax collection by the private sector decreased by 23.2%, partly due to a lower withholding tax rate from 3.0% to 1.5%, starting from 1 April to 30 September 2020. (3) Tax collection on service and profit distribution decreased by 17.9% due to the decline in companies' net profit. Meanwhile, personal income tax decreased by 6.2% due to tax collection on salary payments with a decline of 0.2%, while withholding tax collection on salary payments of the public sector increased by 6.5%. Moreover, withholding tax collection on interest received increased by 1.9%. Meanwhile, withholding tax collections on service fees decreased by 19.5%, as a result of the lower withholding tax rate from 3.0% to 1.5%, starting from 1 April to 30 September 2020. Withholding tax collection on real estate transactions decreased by 3.2% due to decreased real estate sales. Petroleum income tax collection decreased by 16.0% from high tax collection in the previous year involving a transfer of petroleum concession among petroleum exploration and production entrepreneurs.

Social contributions, which accounted for 13.5% of total government revenue, decreased by 4.3%, falling from a rise of 7.6% in 2019 due partly to decreased amount of required Social Security Fund (SSF) contributions for both employers and employees according to twice cutting Social Security Fund (SSF) contribution rates for employees and employers in 2020. The government first cut the contribution rate for employers and employees insured under Section 33 from 5.0% to 4.0% for employers and 1.0% for employees. Moreover, the contribution cap for insured persons under Section 39 had been cut to 86 baht per month from 432 baht per month for three months beginning March 2020. During September through December 2020, the second phase, the contribution rate of employers and employees insured under Section 33 was dropped from 5.0% to 2.0%, following the cap for insured persons under Section 39 curtailed to 96 baht per month from 432 baht per month. The reduction in SSF contribution rates for employers and employees as part of the government's COVID-19 relief measures helped alleviate the suffering of insured persons from the impact of COVID-19, boosting liquidity during the economic crisis, and maintaining the employment level among employers.

Miscellaneous current transfers receivable, which accounted for 1.2% of total government revenue, expanded by 1.7%, driven by increases in donations, fines, penalties, and forfeits.

Interest paid, which accounted for 3.6% of total government expenditure, decreased by 2.4%, in contrast with an increase of 4.7% in 2019. The decline was mainly from promissory notes for financing deficit declined by 39.9%, while interest expenses on promissory notes for debt restructuring decreased by 9.7%. Moreover, government bond yield and short-term loan interest of commercial banks decelerated. Government bond interest paid expanded by 0.1%, decelerating from 3.6% in 2019. The highly volatile bond market resulted in restricting bond issuance and liquidity absorption. On the other hand, the short-term loan interest of commercial banks increased by 27.5%, drastically decelerating from a 181.4% increase in 2019. The expansion was partly due to decreased policy rate resulting in a lower cost of government borrowings.

Subsidies accounted for 1.6% of total government expenditure, expanded by 32.9%. Increases in subsidies reflected from subsidy for HSD, Gasohol E20, and LPG from the oil fund, subsidy for sugar cane planters of Sugar Cane and Granulated Sugar Cane Fund, and private education subsidy for the management of basic education.

Social benefits other than social transfers in kind, which accounted for 12.9% of total government expenditure, increased by 10.9%, from 9.3% in 2019. The expansion partly originated from the increase in social benefits in case of the unemployed due to the impact of COVID-19 causing higher unemployment. Furthermore, allowance for the elderly also increased. While there were increases in severance in case of old age pension; death; and disabled, and allowance for the disabled. In contrast, there was a decrease in usual pension; perpetuity; monthly payment of perpetuities; outpatient medical expenses - state hospital for legal pensioners; the project on strengthening the grassroots economy according to Pracharat policy; and the stimulus measures to raise income for low-income earners under the state-sponsored subsidy and welfare scheme.

Miscellaneous current transfers payable, which accounted for 9.4% of total government expenditure, rose by 253.1%, increasing drastically from 21.6% in 2019. The acceleration was from measures under the work plan to assist, remedy, and compensate members of the public affected by the spread of the Coronavirus disease and measures under the work plan to restore the economy and society as affected by the spread of the Coronavirus disease. The projects under remedial measure included “Rao Mai Ting Gun”, Farmer Assistance Programs, Increase of purchasing power for State Welfare Card Holders, Benefits for vulnerable groups (Elderly, Disabled, Child benefit), and unemployment benefits. The projects under restoring measure included “50-50 co-payment scheme”, “Rao Tiew Duay Kan”, and “Kum Lung Jai”. On the other hand, transfers expenses for operations - non-profit organizations, household sector, and other business agencies decreased.

2) Net savings of public corporations and government enterprises

Net savings of public corporations and government enterprises valued at 264,205 million baht decreased by 27.4%, in contrast to a 78.1% rise in 2019. Public corporations and government enterprises' net profit in business accounting figures for the calendar year 2020 showed value at 441,982 million baht. After consolidating with 48,884 million baht of national accounts definition adjustment, public corporations and government enterprises net profit in national accounts aspect before profit allocation registered the value of 393,099 million baht, diminished by 28.7%, in contrast to 39.0% expansion in the previous year. After deducting by profit allocation, comprising (1) dividend (2) profit delivered to government and (3) bonus payment from net profit, which decreased by 31.4%; consequently, net savings of public corporations and government enterprises decreased.

Net savings of state enterprises classified by organization establishment, net saving or performance of public corporations in national accounts terms posted the value at 36,390 million baht, decreased by 55.8%, contrasted with a 4.6% increase in 2019. Other state enterprises showed net savings of 227,815 million baht, dropping by 19.0%, in contrast to a high growth rate of 124.2% in 2019.

Saving – investment gap

Gross saving registered the value of 4,366,309 million baht, decreased by 16.0%, from a 3.1% rise in 2019. Gross capital formation or investment presented the value of 3,704,041 million baht, lessened by 7.9%, continuing from a 2.6% drop in 2019. Such gross saving and investment brought about a surplus of the saving-investment gap at 662,268 million baht, which was smaller than a surplus of 1,174,836 million baht in 2019, equivalent to 4.2% of GDP.

GDP Implicit Price Deflator

Overall price level decreased by 1.3%.

GDP Implicit Price Deflator

GDP Implicit Price Deflator in 2020 decreased by 1.3%, in contrast to a rise of 1.0% in 2019. Agricultural price deflator increased by 2.6%, slowing down from 3.1% in 2019. Meanwhile, non-agricultural price deflator declined by 1.7%, opposed to a rise of 0.8% in 2019 as a result of a decrease in the deflators contributed chiefly to major activities, namely mining and quarrying; manufacturing; electricity, gas, steam and air conditioning supply; water supply; sewerage, waste management and remediation activities; construction; wholesale and retail trade; transportation and storage; accommodation and food service; financial and insurance activities; and information and communication. Increasing deflators were found in education; public administration and defence; real estate activities; human health and social work; and art, entertainment and recreation.

On the expenditure side, the overall price deflator dropped by 0.5%, lower than a rise of 0.8% in 2019. Private consumption expenditure price deflator fell by 0.3%. Besides, the price deflator of government final consumption expenditure grew by 0.7%. The price deflator of investment also grew by 0.2%. For the external sector, the price deflator of exports goods and services decreased by 0.1%. Similarly, that of imports goods and services declined by 0.6%.

The consumer price index (CPI) in 2020 decreased by 0.8%, compared to a rise of 0.7% in 2019, while the producer price index (PPI) declined by 1.8%, compared to a fall of 1.0% in 2019.

Growth rate of implicit price deflator

(%)

| Implicit price deflator | 2016 | 2017 | 2018 | 2019 | 2020 |
|--|-------------|------------|------------|-------------|-------------|
| Gross domestic product, (GDP) | 2.6 | 1.9 | 1.4 | 1.0 | -1.3 |
| Agriculture | 2.6 | 0.4 | -2.8 | 3.1 | 2.6 |
| Non-agriculture | 2.6 | 2.0 | 1.8 | 0.8 | -1.7 |
| Expenditure on gross domestic product | 3.0 | 1.2 | 0.0 | 0.8 | -0.5 |
| Private final consumption expenditure | 0.5 | 0.8 | 1.0 | 1.0 | -0.3 |
| General government final consumption expenditure | 2.4 | 2.3 | 2.2 | 1.6 | 0.7 |
| Gross fixed capital formation | -0.2 | 1.6 | 0.3 | 0.2 | 0.2 |
| Exports of goods and services | 2.5 | 0.3 | -0.5 | -2.4 | -0.1 |
| Imports of goods and services | 0.3 | 1.3 | 0.8 | -2.6 | -0.6 |
| Consumer price index (CPI) | 0.2 | 0.7 | 1.1 | 0.7 | -0.8 |
| Producer price index (PPI) | -1.2 | 0.7 | 0.4 | -1.0 | -1.8 |

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Main Accounts

Account 1 Production account

(Millions of Baht)

| Transactions and balancing items | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
|--|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Uses | | | | | | | | |
| Intermediate consumption | 19,469,478 | 19,533,097 | 19,175,997 | 19,155,793 | 20,134,060 | 21,103,117 | 21,156,727 | 19,630,015 |
| Value added, gross / Gross domestic product | 12,915,159 | 13,230,306 | 13,743,478 | 14,590,337 | 15,488,664 | 16,373,340 | 16,892,410 | 15,636,891 |
| Consumption of fixed capital | 2,084,525 | 2,214,196 | 2,344,834 | 2,488,386 | 2,628,663 | 2,775,404 | 2,912,542 | 2,973,263 |
| Value added, net / Net domestic product | 10,830,634 | 11,016,110 | 11,398,644 | 12,101,951 | 12,860,001 | 13,597,936 | 13,979,868 | 12,663,628 |
| Resources | | | | | | | | |
| Output | 31,112,133 | 31,554,616 | 31,574,346 | 32,367,535 | 34,170,430 | 35,912,619 | 36,441,984 | 33,849,265 |
| Market output | 29,147,172 | 29,474,523 | 29,374,925 | 30,074,425 | 31,806,964 | 33,442,549 | 33,888,664 | 31,241,038 |
| Non-market output | 1,964,961 | 2,080,093 | 2,199,421 | 2,293,110 | 2,363,466 | 2,470,070 | 2,553,320 | 2,608,227 |
| Taxes on products | 1,351,505 | 1,303,157 | 1,388,433 | 1,422,778 | 1,489,791 | 1,607,673 | 1,641,487 | 1,467,610 |
| Subsidies on products (-) | 79,001 | 94,370 | 43,304 | 44,183 | 37,497 | 43,835 | 34,334 | 49,969 |

Account 2 Generation of income account

(Millions of Baht)

| Transactions and balancing items | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
|--|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Uses | | | | | | | | |
| Compensation of employees, payable | 4,016,251 | 4,300,943 | 4,533,734 | 4,689,364 | 4,845,989 | 5,040,726 | 5,240,434 | 5,063,166 |
| Wages and salaries | 3,574,463 | 3,816,852 | 4,005,633 | 4,119,571 | 4,243,272 | 4,405,577 | 4,550,682 | 4,381,065 |
| Employers' social contributions | 441,788 | 484,091 | 528,101 | 569,793 | 602,717 | 635,149 | 689,752 | 682,101 |
| Taxes on production and imports, payable | 1,443,542 | 1,391,975 | 1,473,579 | 1,521,872 | 1,588,125 | 1,712,869 | 1,746,049 | 1,528,733 |
| Taxes on products | 1,351,505 | 1,303,157 | 1,388,433 | 1,422,778 | 1,489,791 | 1,607,673 | 1,641,487 | 1,467,610 |
| Other taxes on production | 92,037 | 88,818 | 85,146 | 99,094 | 98,334 | 105,196 | 104,562 | 61,123 |
| (less) Subsidies, receivable | 103,665 | 121,854 | 69,939 | 68,330 | 61,657 | 68,587 | 58,985 | 78,375 |
| Subsidies on products | 79,001 | 94,370 | 43,304 | 44,183 | 37,497 | 43,835 | 34,334 | 49,969 |
| Other subsidies on production | 24,664 | 27,484 | 26,635 | 24,147 | 24,160 | 24,752 | 24,651 | 28,406 |
| Mixed income and operating surplus, gross | 7,559,031 | 7,659,242 | 7,806,104 | 8,447,431 | 9,116,207 | 9,688,332 | 9,964,912 | 9,123,367 |
| Consumption of fixed capital | 2,084,525 | 2,214,196 | 2,344,834 | 2,488,386 | 2,628,663 | 2,775,404 | 2,912,542 | 2,973,263 |
| Mixed income and operating surplus, net | 5,474,506 | 5,445,046 | 5,461,270 | 5,959,045 | 6,487,544 | 6,912,928 | 7,052,370 | 6,150,104 |
| Resources | | | | | | | | |
| Value added, gross / Gross domestic product | 12,915,159 | 13,230,306 | 13,743,478 | 14,590,337 | 15,488,664 | 16,373,340 | 16,892,410 | 15,636,891 |
| Value added, net / Net domestic product | 10,830,634 | 11,016,110 | 11,398,644 | 12,101,951 | 12,860,001 | 13,597,936 | 13,979,868 | 12,663,628 |

Account 3 Allocation of primary income account

(Millions of Baht)

| Transactions and balancing items | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
|---|------------|------------|------------|------------|------------|------------|------------|------------|
| Uses | | | | | | | | |
| Balance of primary incomes, gross | | | | | | | | |
| / National income, gross | 12,089,670 | 12,549,609 | 13,034,505 | 13,904,972 | 14,794,813 | 15,580,236 | 16,264,900 | 15,277,823 |
| Balance of primary incomes, net | | | | | | | | |
| / National income, net | 10,005,145 | 10,335,413 | 10,689,671 | 11,416,586 | 12,166,150 | 12,804,832 | 13,352,358 | 12,304,560 |
| Resources | | | | | | | | |
| Mixed income and operating surplus, gross | 7,559,031 | 7,659,242 | 7,806,104 | 8,447,431 | 9,116,207 | 9,688,332 | 9,964,912 | 9,123,367 |
| Mixed income and operating surplus, net | 5,474,506 | 5,445,046 | 5,461,270 | 5,959,045 | 6,487,544 | 6,912,928 | 7,052,370 | 6,150,104 |
| Compensation of employees | 4,041,907 | 4,323,540 | 4,554,169 | 4,711,391 | 4,855,252 | 5,044,149 | 5,165,112 | 4,992,748 |
| Wages and salaries | 3,600,119 | 3,839,449 | 4,026,068 | 4,141,598 | 4,252,535 | 4,409,000 | 4,475,360 | 4,310,647 |
| Employers' social contributions | 441,788 | 484,091 | 528,101 | 569,793 | 602,717 | 635,149 | 689,752 | 682,101 |
| Taxes on production and imports | 1,443,542 | 1,391,975 | 1,473,579 | 1,521,872 | 1,588,125 | 1,712,869 | 1,746,049 | 1,528,733 |
| Taxes on products | 1,351,505 | 1,303,157 | 1,388,433 | 1,422,778 | 1,489,791 | 1,607,673 | 1,641,487 | 1,467,610 |
| Other taxes on production | 92,037 | 88,818 | 85,146 | 99,094 | 98,334 | 105,196 | 104,562 | 61,123 |
| (less) Subsidies | 103,665 | 121,854 | 69,939 | 68,330 | 61,657 | 68,587 | 58,985 | 78,375 |
| Subsidies on products | 79,001 | 94,370 | 43,304 | 44,183 | 37,497 | 43,835 | 34,334 | 49,969 |
| Other subsidies on production | 24,664 | 27,484 | 26,635 | 24,147 | 24,160 | 24,752 | 24,651 | 28,406 |
| Property income ^{1/} | -851,145 | -703,294 | -729,408 | -707,392 | -703,114 | -796,527 | -552,188 | -288,650 |

Note : ^{1/} Property income receivable less property income payable

Account 4 Secondary distribution of income account

(Millions of Baht)

| Transactions and balancing items | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
|--|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Uses | | | | | | | | |
| Current transfers | 2,875,549 | 2,821,763 | 3,014,519 | 3,074,078 | 3,208,526 | 3,386,657 | 3,632,592 | 3,831,095 |
| Current taxes on income, wealth, etc. | 988,890 | 915,579 | 944,041 | 945,045 | 940,953 | 1,053,244 | 1,082,561 | 947,239 |
| Taxes on income | 959,843 | 881,447 | 906,322 | 908,726 | 897,742 | 1,004,085 | 1,032,703 | 897,716 |
| Other current taxes | 29,047 | 34,132 | 37,719 | 36,319 | 43,211 | 49,159 | 49,858 | 49,523 |
| Social contributions | 555,529 | 610,254 | 658,254 | 705,812 | 744,059 | 785,408 | 847,799 | 812,541 |
| Employers' actual social contributions | 136,318 | 158,414 | 169,913 | 176,570 | 182,437 | 194,909 | 203,700 | 186,057 |
| Employers' imputed social contributions | 305,470 | 325,677 | 358,188 | 393,223 | 420,280 | 440,240 | 486,052 | 496,044 |
| Households' actual social contributions ^{1/} | 79,004 | 88,430 | 90,186 | 92,613 | 95,960 | 102,721 | 108,326 | 84,593 |
| Households' social contributions supplements ^{2/} | 34,737 | 37,733 | 39,967 | 43,406 | 45,382 | 47,538 | 49,721 | 45,847 |
| Social benefits other than social transfers in kind | 330,096 | 346,702 | 377,027 | 421,938 | 459,179 | 526,108 | 575,120 | 637,939 |
| Social security benefits in cash | 29,400 | 30,159 | 31,332 | 36,394 | 38,769 | 45,333 | 51,242 | 85,873 |
| Other social insurance benefits | 207,476 | 227,205 | 252,867 | 294,198 | 316,394 | 335,134 | 366,468 | 389,768 |
| Social assistance benefits in cash | 93,220 | 89,338 | 92,828 | 91,346 | 104,016 | 145,641 | 157,410 | 162,298 |
| Other current transfers | 1,001,034 | 949,228 | 1,035,197 | 1,001,283 | 1,064,335 | 1,021,897 | 1,127,112 | 1,433,376 |
| Net non-life insurance premiums ^{3/} | 380 | 444 | 200 | 184 | 251 | 279 | 165 | 208 |
| Current transfer within general government | 712,042 | 656,299 | 734,081 | 701,203 | 762,526 | 710,498 | 724,119 | 732,384 |
| Current international cooperation | 1,375 | 1,819 | 1,602 | 2,548 | 1,985 | 2,008 | 1,430 | 1,502 |
| Miscellaneous current transfers | 287,237 | 290,666 | 299,314 | 297,348 | 299,573 | 309,112 | 401,398 | 699,282 |
| Disposable income, gross | 12,415,677 | 12,833,163 | 13,263,594 | 14,145,548 | 15,050,268 | 15,838,997 | 16,488,400 | 15,467,124 |
| Disposable income, net | 10,331,152 | 10,618,967 | 10,918,760 | 11,657,162 | 12,421,605 | 13,063,593 | 13,575,858 | 12,493,861 |
| Resources | | | | | | | | |
| Balance of primary incomes, gross | | | | | | | | |
| / National income, gross | 12,089,670 | 12,549,609 | 13,034,505 | 13,904,972 | 14,794,813 | 15,580,236 | 16,264,900 | 15,277,823 |
| Balance of primary incomes, net | | | | | | | | |
| / National income, net | 10,005,145 | 10,335,413 | 10,689,671 | 11,416,586 | 12,166,150 | 12,804,832 | 13,352,358 | 12,304,560 |
| Current transfers | 3,201,556 | 3,105,317 | 3,243,608 | 3,314,654 | 3,463,981 | 3,645,418 | 3,856,092 | 4,020,396 |
| Current taxes on income, wealth, etc. | 988,890 | 915,579 | 944,041 | 945,045 | 940,953 | 1,053,244 | 1,082,561 | 947,239 |
| Taxes on income | 959,843 | 881,447 | 906,322 | 908,726 | 897,742 | 1,004,085 | 1,032,703 | 897,716 |
| Other current taxes | 29,047 | 34,132 | 37,719 | 36,319 | 43,211 | 49,159 | 49,858 | 49,523 |
| Social contributions | 555,529 | 610,254 | 658,254 | 705,812 | 744,059 | 785,408 | 847,799 | 812,541 |
| Employers' actual social contributions | 136,318 | 158,414 | 169,913 | 176,570 | 182,437 | 194,909 | 203,700 | 186,057 |
| Employers' imputed social contributions | 305,470 | 325,677 | 358,188 | 393,223 | 420,280 | 440,240 | 486,052 | 496,044 |
| Households' actual social contributions ^{1/} | 79,004 | 88,430 | 90,186 | 92,613 | 95,960 | 102,721 | 108,326 | 84,593 |
| Households' social contributions supplements ^{2/} | 34,737 | 37,733 | 39,967 | 43,406 | 45,382 | 47,538 | 49,721 | 45,847 |
| Social benefits other than social transfers in kind | 330,096 | 346,702 | 377,027 | 421,938 | 459,179 | 526,108 | 575,120 | 637,939 |
| Social security benefits in cash | 29,400 | 30,159 | 31,332 | 36,394 | 38,769 | 45,333 | 51,242 | 85,873 |
| Other social insurance benefits | 207,476 | 227,205 | 252,867 | 294,198 | 316,394 | 335,134 | 366,468 | 389,768 |
| Social assistance benefits in cash | 93,220 | 89,338 | 92,828 | 91,346 | 104,016 | 145,641 | 157,410 | 162,298 |
| Other current transfers | 1,327,041 | 1,232,782 | 1,264,286 | 1,241,859 | 1,319,790 | 1,280,658 | 1,350,612 | 1,622,677 |
| Non-life insurance claims ^{3/} | 1 | 2 | 1 | 1 | 1 | 0 | 0 | 0 |
| Current transfer within general government | 712,042 | 656,299 | 734,081 | 701,203 | 762,526 | 710,498 | 724,119 | 732,384 |
| Current international cooperation | 3,120 | 3,497 | 2,190 | 3,009 | 2,572 | 3,180 | 2,673 | 3,182 |
| Miscellaneous current transfers | 611,878 | 572,984 | 528,014 | 537,646 | 554,691 | 566,980 | 623,820 | 887,111 |

Note : ^{1/} The government social security plans included in government account comprise 6 funds as below:

- 1) Social security fund
- 2) The Workmen's Compensation fund
- 3) Welfare fund (the former name is headmaster and private school teacher welfare fund)
- 4) The national health security fund
- 5) Bangkok Metropolitan Administration pension fund
- 6) Local administration pension fund

^{2/} Governmental funds consist of social security fund (In the case of child allowance and old age)^{3/} Government only

Account 5 Use of disposable income account

(Millions of Baht)

| Transactions and balancing items | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Uses | | | | | | | | |
| Final consumption expenditure | 8,900,573 | 9,196,723 | 9,409,588 | 9,757,238 | 10,103,138 | 10,652,906 | 11,138,661 | 11,091,302 |
| Individual consumption expenditure | 7,800,010 | 8,055,550 | 8,205,430 | 8,507,840 | 8,833,595 | 9,308,851 | 9,751,017 | 9,700,962 |
| Collective consumption expenditure ^{1/} | 1,100,563 | 1,141,173 | 1,204,158 | 1,249,398 | 1,269,543 | 1,344,055 | 1,387,644 | 1,390,340 |
| Adjustment for the change in pension entitlements | 129,060 | 131,124 | 134,843 | 135,130 | 144,459 | 149,191 | 153,770 | 117,445 |
| Saving, gross | 3,515,104 | 3,636,440 | 3,854,006 | 4,388,310 | 4,947,130 | 5,186,091 | 5,349,739 | 4,375,822 |
| Saving, net | 1,430,579 | 1,422,244 | 1,509,172 | 1,899,924 | 2,318,467 | 2,410,687 | 2,437,197 | 1,402,559 |
| Resources | | | | | | | | |
| Disposable income, gross ^{1/} | 12,415,677 | 12,833,163 | 13,263,594 | 14,145,548 | 15,050,268 | 15,838,997 | 16,488,400 | 15,467,124 |
| Disposable income, net | 10,331,152 | 10,618,967 | 10,918,760 | 11,657,162 | 12,421,605 | 13,063,593 | 13,575,858 | 12,493,861 |
| Adjustment for the change in pension entitlements | 129,060 | 131,124 | 134,843 | 135,130 | 144,459 | 149,191 | 153,770 | 117,445 |

Note : ^{1/} Governmental funds consist of social security fund (welfare and senility plan), Bangkok Metropolitan Administration pension fund and local administration pension fund.

Account 6 Redistribution of income in kind account

(Millions of Baht)

| Transactions and balancing items | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
|--|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Uses | | | | | | | | |
| Social transfers in kind | 1,012,806 | 1,096,910 | 1,148,884 | 1,211,288 | 1,254,859 | 1,304,166 | 1,344,522 | 1,399,390 |
| Social transfers in kind - non-market production | 774,914 | 852,780 | 905,607 | 951,068 | 984,792 | 1,036,005 | 1,069,803 | 1,120,238 |
| Social transfers in kind - purchased market production | 237,892 | 244,130 | 243,277 | 260,220 | 270,067 | 268,161 | 274,719 | 279,152 |
| Adjusted disposable income, gross | 12,415,677 | 12,833,163 | 13,263,594 | 14,145,548 | 15,050,268 | 15,838,997 | 16,488,400 | 15,467,124 |
| Adjusted disposable income, net | 10,331,152 | 10,618,967 | 10,918,760 | 11,657,162 | 12,421,605 | 13,063,593 | 13,575,858 | 12,493,861 |
| Resources | | | | | | | | |
| Disposable income, gross | 12,415,677 | 12,833,163 | 13,263,594 | 14,145,548 | 15,050,268 | 15,838,997 | 16,488,400 | 15,467,124 |
| Disposable income, net | 10,331,152 | 10,618,967 | 10,918,760 | 11,657,162 | 12,421,605 | 13,063,593 | 13,575,858 | 12,493,861 |
| Social transfers in kind | 1,012,806 | 1,096,910 | 1,148,884 | 1,211,288 | 1,254,859 | 1,304,166 | 1,344,522 | 1,399,390 |
| Social transfers in kind - non-market production | 774,914 | 852,780 | 905,607 | 951,068 | 984,792 | 1,036,005 | 1,069,803 | 1,120,238 |
| Social transfers in kind - purchased market production | 237,892 | 244,130 | 243,277 | 260,220 | 270,067 | 268,161 | 274,719 | 279,152 |

Account 7 Use of adjusted disposable income account

(Millions of Baht)

| Transactions and balancing items | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Uses | | | | | | | | |
| Actual final consumption | 8,900,573 | 9,196,723 | 9,409,588 | 9,757,238 | 10,103,138 | 10,652,906 | 11,138,661 | 11,091,302 |
| Actual individual consumption | 7,800,010 | 8,055,550 | 8,205,430 | 8,507,840 | 8,833,595 | 9,308,851 | 9,751,017 | 9,700,962 |
| Actual collective consumption | 1,100,563 | 1,141,173 | 1,204,158 | 1,249,398 | 1,269,543 | 1,344,055 | 1,387,644 | 1,390,340 |
| Adjustment for the change in pension entitlements | 129,060 | 131,124 | 134,843 | 135,130 | 144,459 | 149,191 | 153,770 | 117,445 |
| Saving, gross | 3,515,104 | 3,636,440 | 3,854,006 | 4,388,310 | 4,947,130 | 5,186,091 | 5,349,739 | 4,375,822 |
| Saving, net | 1,430,579 | 1,422,244 | 1,509,172 | 1,899,924 | 2,318,467 | 2,410,687 | 2,437,197 | 1,402,559 |
| Resources | | | | | | | | |
| Adjusted disposable income, gross | 12,415,677 | 12,833,163 | 13,263,594 | 14,145,548 | 15,050,268 | 15,838,997 | 16,488,400 | 15,467,124 |
| Adjusted disposable income, net | 10,331,152 | 10,618,967 | 10,918,760 | 11,657,162 | 12,421,605 | 13,063,593 | 13,575,858 | 12,493,861 |
| Adjustment for the change in pension entitlements | 129,060 | 131,124 | 134,843 | 135,130 | 144,459 | 149,191 | 153,770 | 117,445 |

Account 8 External income account

(Millions of Baht)

| Transactions and balancing items | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
|--|----------------|-----------------|-----------------|-------------------|-------------------|-----------------|-------------------|-----------------|
| Income of non-residents | | | | | | | | |
| Import of goods and services | 8,432,453 | 8,270,441 | 7,861,679 | 7,806,464 | 8,397,737 | 9,169,690 | 8,473,402 | 7,232,373 |
| <i>Import of goods</i> | 6,977,230 | 6,801,008 | 6,407,028 | 6,270,835 | 6,815,779 | 7,394,423 | 6,707,886 | 5,818,030 |
| <i>Import of services</i> | 1,455,223 | 1,469,433 | 1,454,651 | 1,535,629 | 1,581,958 | 1,775,267 | 1,765,516 | 1,414,343 |
| Primary income receivable by non-residents | 1,025,561 | 919,664 | 875,532 | 913,155 | 982,533 | 1,075,223 | 972,292 | 744,713 |
| <i>Compensation of employees</i> | 30,835 | 39,391 | 49,203 | 56,705 | 60,680 | 64,887 | 111,756 | 102,659 |
| <i>Property income</i> | 994,726 | 880,273 | 826,329 | 856,450 | 921,853 | 1,010,336 | 860,536 | 642,054 |
| Secondary income receivable by non-residents | 109,072 | 118,386 | 129,363 | 133,111 | 123,024 | 122,168 | 192,501 | 158,660 |
| Other current transfer | 109,072 | 118,386 | 129,363 | 133,111 | 123,024 | 122,168 | 192,501 | 158,660 |
| <i>Public</i> | 1,375 | 1,819 | 1,602 | 2,548 | 1,985 | 2,008 | 1,430 | 1,502 |
| <i>Private</i> | 107,697 | 116,567 | 127,761 | 130,563 | 121,039 | 120,160 | 191,071 | 157,158 |
| Use of income by non-residents | | | | | | | | |
| Export of goods and services | 8,675,260 | 9,048,752 | 9,295,635 | 9,785,869 | 10,326,731 | 10,616,163 | 10,052,248 | 8,064,408 |
| <i>Export of goods</i> | 6,990,698 | 7,360,423 | 7,308,359 | 7,533,353 | 7,920,724 | 8,114,859 | 7,534,817 | 7,099,300 |
| <i>Export of services</i> | 1,684,562 | 1,688,329 | 1,987,276 | 2,252,516 | 2,406,007 | 2,501,304 | 2,517,431 | 965,108 |
| Primary income payable by non-residents | 200,072 | 238,967 | 166,559 | 227,790 | 288,682 | 282,119 | 344,782 | 385,645 |
| <i>Compensation of employees</i> | 56,491 | 61,988 | 69,638 | 78,732 | 69,943 | 68,310 | 36,434 | 32,241 |
| <i>Property income</i> | 143,581 | 176,979 | 96,921 | 149,058 | 218,739 | 213,809 | 308,348 | 353,404 |
| Secondary income payable by non-residents | 435,079 | 401,940 | 358,452 | 373,687 | 378,479 | 380,929 | 416,001 | 347,961 |
| Other current transfer | 435,079 | 401,940 | 358,452 | 373,687 | 378,479 | 380,929 | 416,001 | 347,961 |
| <i>Public</i> | 3,120 | 3,497 | 2,190 | 3,009 | 2,572 | 3,180 | 2,673 | 3,182 |
| <i>Private</i> | 431,959 | 398,443 | 356,262 | 370,678 | 375,907 | 377,749 | 413,328 | 344,779 |
| Balance on external income account | 256,675 | -381,168 | -954,072 | -1,534,616 | -1,490,598 | -912,130 | -1,174,836 | -662,268 |

***Gross Domestic Product
Chain Volume Measures***

**Table 1 Expenditure on gross domestic product
at current market prices**

| | (Millions of Baht) | | | | | | | |
|--|--------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
| Private final consumption expenditure | 6,787,204 | 6,958,639 | 7,056,546 | 7,296,552 | 7,578,735 | 8,004,686 | 8,406,495 | 8,301,572 |
| General government final consumption expenditure | 2,113,369 | 2,238,084 | 2,353,042 | 2,460,686 | 2,524,403 | 2,648,220 | 2,732,166 | 2,789,730 |
| Gross fixed capital formation | 3,278,326 | 3,262,778 | 3,371,069 | 3,459,901 | 3,579,177 | 3,730,869 | 3,812,173 | 3,634,582 |
| Change in inventories | 267,804 | -98,217 | -298,624 | -380,535 | -26,962 | 398,424 | 209,192 | 69,459 |
| Plus : Exports of goods and services | 8,675,260 | 9,048,752 | 9,295,635 | 9,785,869 | 10,326,731 | 10,616,163 | 10,052,248 | 8,064,408 |
| <i>Exports of goods (f.o.b)</i> | 6,990,698 | 7,360,423 | 7,308,359 | 7,533,353 | 7,920,724 | 8,114,859 | 7,534,817 | 7,099,300 |
| <i>Exports of services</i> | 1,684,562 | 1,688,329 | 1,987,276 | 2,252,516 | 2,406,007 | 2,501,304 | 2,517,431 | 965,108 |
| Less : Imports of goods and services | 8,432,453 | 8,270,441 | 7,861,679 | 7,806,464 | 8,397,737 | 9,169,690 | 8,473,402 | 7,232,373 |
| <i>Imports of goods (f.o.b)</i> | 6,977,230 | 6,801,008 | 6,407,028 | 6,270,835 | 6,815,779 | 7,394,423 | 6,707,886 | 5,818,030 |
| <i>Imports of services</i> | 1,455,223 | 1,469,433 | 1,454,651 | 1,535,629 | 1,581,958 | 1,775,267 | 1,765,516 | 1,414,343 |
| Expenditure on gross domestic product | 12,689,510 | 13,139,595 | 13,915,989 | 14,816,009 | 15,584,347 | 16,228,672 | 16,738,872 | 15,627,378 |
| Plus : Statistical discrepancy | 225,649 | 90,711 | -172,511 | -225,672 | -95,683 | 144,668 | 153,538 | 9,513 |
| Gross domestic product, (GDP) | 12,915,159 | 13,230,306 | 13,743,478 | 14,590,337 | 15,488,664 | 16,373,340 | 16,892,410 | 15,636,891 |

**Table 2 Expenditure on gross domestic product
chain volume measures (reference year = 2002)**

| | (Millions of Baht) | | | | | | | |
|---|--------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|
| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
| Private final consumption expenditure | 4,759,900 | 4,785,280 | 4,909,901 | 5,051,349 | 5,207,330 | 5,445,519 | 5,661,555 | 5,606,781 |
| General government final consumption expenditure | 1,417,379 | 1,457,177 | 1,493,837 | 1,526,168 | 1,530,150 | 1,571,045 | 1,595,838 | 1,617,788 |
| Gross fixed capital formation | 2,303,441 | 2,252,515 | 2,350,865 | 2,418,543 | 2,463,150 | 2,560,080 | 2,610,718 | 2,485,109 |
| Change in inventories | 183,078 | -63,572 | -111,915 | -340,739 | -68,590 | 258,420 | 117,006 | 117,469 |
| Plus : Exports of goods and services | 7,062,025 | 7,086,421 | 7,175,013 | 7,368,456 | 7,750,204 | 8,009,917 | 7,773,340 | 6,243,362 |
| <i>Exports of goods (f.o.b)</i> | 5,706,462 | 5,750,028 | 5,615,083 | 5,628,100 | 5,931,455 | 6,154,112 | 5,925,896 | 5,583,531 |
| <i>Exports of services</i> | 1,358,020 | 1,339,154 | 1,565,896 | 1,750,022 | 1,828,446 | 1,865,472 | 1,856,056 | 718,281 |
| Less : Imports of goods and services | 6,839,905 | 6,477,504 | 6,477,757 | 6,413,517 | 6,812,902 | 7,376,621 | 6,995,494 | 6,006,410 |
| <i>Imports of goods (f.o.b)</i> | 5,680,561 | 5,322,667 | 5,334,768 | 5,212,824 | 5,600,454 | 6,042,682 | 5,694,638 | 5,093,801 |
| <i>Imports of services</i> | 1,163,166 | 1,157,418 | 1,145,494 | 1,199,428 | 1,214,911 | 1,335,223 | 1,299,220 | 938,415 |
| Expenditure on gross domestic product (sum up) | 8,884,553 | 9,040,497 | 9,343,405 | 9,621,191 | 10,076,576 | 10,476,743 | 10,773,211 | 10,096,743 |
| Residual (GDE (sum up) - GDE CVM) | -139,221 | -78,951 | -66,221 | -104,417 | -36,592 | -53,755 | -3,899 | -17,235 |
| % Residual (GDE sum up) to GDE CVM | -1.5 | -0.9 | -0.7 | -1.1 | -0.4 | -0.5 | 0.0 | -0.2 |
| Expenditure on gross domestic product | 9,023,774 | 9,119,448 | 9,409,626 | 9,725,608 | 10,113,168 | 10,530,498 | 10,777,110 | 10,113,978 |
| Gross domestic product, (GDP) | 9,142,077 | 9,232,089 | 9,521,426 | 9,848,502 | 10,259,941 | 10,693,204 | 10,923,286 | 10,246,535 |

Note : Chain volume series are not additive. The sum of the components will thus not be equal to the shown totals.

Table 2.1 Expenditure on gross domestic product
chain indices (reference year = 2002)

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Private final consumption expenditure | 148.2 | 149.0 | 152.9 | 157.3 | 162.2 | 169.6 | 176.3 | 174.6 |
| General government final consumption expenditure | 186.5 | 191.7 | 196.6 | 200.8 | 201.3 | 206.7 | 210.0 | 212.9 |
| Gross fixed capital formation | 182.2 | 178.2 | 186.0 | 191.3 | 194.8 | 202.5 | 206.5 | 196.6 |
| Change in inventories | | | | | | | | |
| Plus : Exports of goods and services | 201.8 | 202.5 | 205.1 | 210.6 | 221.5 | 228.9 | 222.2 | 178.4 |
| <i>Exports of goods (f.o.b)</i> | 201.1 | 202.6 | 197.9 | 198.3 | 209.0 | 216.9 | 208.8 | 196.8 |
| <i>Exports of services</i> | 205.3 | 202.5 | 236.8 | 264.6 | 276.5 | 282.1 | 280.7 | 108.6 |
| Less : Imports of goods and services | 218.2 | 206.7 | 206.7 | 204.6 | 217.4 | 235.4 | 223.2 | 191.6 |
| <i>Imports of goods (f.o.b)</i> | 232.4 | 217.7 | 218.2 | 213.2 | 229.1 | 247.2 | 232.9 | 208.4 |
| <i>Imports of services</i> | 168.7 | 167.8 | 166.1 | 173.9 | 176.2 | 193.6 | 188.4 | 136.1 |
| Expenditure on gross domestic product | 159.8 | 161.5 | 166.6 | 172.2 | 179.1 | 186.4 | 190.8 | 179.1 |
| Gross domestic product, (GDP) | 158.5 | 160.0 | 165.0 | 170.7 | 177.8 | 185.3 | 189.3 | 177.6 |

Table 2.2 Growth rate of expenditure on gross domestic product
chain volume measures (reference year = 2002)

| | 2013 | 2014r | 2015r | 2016r | 2017r | 2018r | 2019r | 2020p |
|--|------------|------------|------------|------------|------------|------------|------------|-------------|
| | | | | | | | | Percent |
| Private final consumption expenditure | 1.0 | 0.5 | 2.6 | 2.9 | 3.1 | 4.6 | 4.0 | -1.0 |
| General government final consumption expenditure | 1.5 | 2.8 | 2.5 | 2.2 | 0.3 | 2.7 | 1.6 | 1.4 |
| Gross fixed capital formation | -1.0 | -2.2 | 4.4 | 2.9 | 1.8 | 3.9 | 2.0 | -4.8 |
| Change in inventories | | | | | | | | |
| Plus : Exports of goods and services | 2.5 | 0.3 | 1.3 | 2.7 | 5.2 | 3.4 | -3.0 | -19.7 |
| <i>Exports of goods (f.o.b)</i> | 0.1 | 0.8 | -2.3 | 0.2 | 5.4 | 3.8 | -3.7 | -5.8 |
| <i>Exports of services</i> | 14.3 | -1.4 | 16.9 | 11.8 | 4.5 | 2.0 | -0.5 | -61.3 |
| Less : Imports of goods and services | 1.7 | -5.3 | 0.0 | -1.0 | 6.2 | 8.3 | -5.2 | -14.1 |
| <i>Imports of goods (f.o.b)</i> | 1.8 | -6.3 | 0.2 | -2.3 | 7.4 | 7.9 | -5.8 | -10.6 |
| <i>Imports of services</i> | 1.1 | -0.5 | -1.0 | 4.7 | 1.3 | 9.9 | -2.7 | -27.8 |
| Expenditure on gross domestic product | 2.4 | 1.1 | 3.2 | 3.4 | 4.0 | 4.1 | 2.3 | -6.2 |
| Gross domestic product, (GDP) | 2.7 | 1.0 | 3.1 | 3.4 | 4.2 | 4.2 | 2.2 | -6.2 |

Table 2.3 Contributions to growth rate of expenditure on gross domestic product
chain volume measures (reference year = 2002)

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
|--|------------|------------|------------|------------|------------|------------|------------|-------------|
| | | | | | | | | Percent |
| Private final consumption expenditure | 0.5 | 0.3 | 1.4 | 1.5 | 1.5 | 2.2 | 1.9 | -0.5 |
| General government final consumption expenditure | 0.3 | 0.5 | 0.4 | 0.4 | 0.0 | 0.4 | 0.3 | 0.2 |
| Gross fixed capital formation | -0.3 | -0.6 | 1.1 | 0.7 | 0.4 | 0.9 | 0.5 | -1.1 |
| Change in inventories | 1.0 | -2.8 | -0.6 | -1.5 | 1.9 | 2.8 | -1.3 | -0.1 |
| Plus : Exports of goods and services | 1.7 | 0.2 | 0.9 | 1.8 | 3.5 | 2.2 | -1.9 | -11.7 |
| <i>Exports of goods (f.o.b)</i> | 0.1 | 0.4 | -1.3 | 0.1 | 2.8 | 1.9 | -1.8 | -2.6 |
| <i>Exports of services</i> | 1.7 | -0.2 | 2.2 | 1.7 | 0.7 | 0.3 | -0.1 | -9.1 |
| Less : Imports of goods and services | 1.2 | -3.5 | 0.0 | -0.6 | 3.3 | 4.5 | -2.9 | -7.1 |
| <i>Imports of goods (f.o.b)</i> | 1.0 | -3.4 | 0.1 | -1.1 | 3.2 | 3.5 | -2.6 | -4.2 |
| <i>Imports of services</i> | 0.1 | -0.1 | -0.1 | 0.5 | 0.1 | 1.0 | -0.3 | -2.9 |
| Expenditure on gross domestic product | 2.3 | 1.0 | 3.2 | 3.4 | 4.0 | 4.2 | 2.3 | -6.1 |
| Gross domestic product, (GDP) | 2.7 | 1.0 | 3.1 | 3.4 | 4.2 | 4.2 | 2.2 | -6.2 |

***Gross Domestic Product
(Production)***

Table 3 Gross domestic product
at current market prices by economic activities

| | (Millions of Baht) | | | | | | | |
|--|--------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
| Agriculture | 1,462,283 | 1,334,795 | 1,219,420 | 1,236,981 | 1,302,041 | 1,342,911 | 1,372,657 | 1,360,047 |
| Agriculture, forestry and fishing | 1,462,283 | 1,334,795 | 1,219,420 | 1,236,981 | 1,302,041 | 1,342,911 | 1,372,657 | 1,360,047 |
| Non-agriculture | 11,452,876 | 11,895,511 | 12,524,058 | 13,353,356 | 14,186,623 | 15,030,429 | 15,519,753 | 14,276,844 |
| <i>Industrial</i> | <i>4,420,724</i> | <i>4,526,819</i> | <i>4,592,338</i> | <i>4,791,853</i> | <i>5,029,209</i> | <i>5,278,347</i> | <i>5,254,753</i> | <i>4,776,134</i> |
| Mining and quarrying | 496,562 | 495,627 | 431,425 | 399,753 | 386,153 | 416,991 | 411,820 | 325,193 |
| Manufacturing | 3,563,122 | 3,648,058 | 3,762,150 | 3,960,437 | 4,184,233 | 4,373,783 | 4,327,772 | 3,985,840 |
| Electricity, gas, steam and air conditioning supply | 313,431 | 331,412 | 343,430 | 373,038 | 396,457 | 422,034 | 446,079 | 396,905 |
| Water supply; sewerage, waste management and remediation activities | 47,609 | 51,722 | 55,333 | 58,625 | 62,366 | 65,539 | 69,082 | 68,196 |
| <i>Services</i> | <i>7,032,152</i> | <i>7,368,692</i> | <i>7,931,720</i> | <i>8,561,503</i> | <i>9,157,414</i> | <i>9,752,082</i> | <i>10,265,000</i> | <i>9,500,710</i> |
| Construction | 344,786 | 337,043 | 379,940 | 400,376 | 394,729 | 410,157 | 419,087 | 422,015 |
| Wholesale and retail trade; repair of motor vehicles and motorcycles | 1,729,206 | 1,816,182 | 1,966,439 | 2,187,129 | 2,379,660 | 2,580,986 | 2,747,487 | 2,652,341 |
| Transportation and storage | 693,603 | 720,581 | 779,135 | 864,556 | 920,641 | 955,066 | 983,776 | 747,700 |
| Accommodation and food service activities | 472,928 | 497,777 | 600,218 | 696,810 | 817,326 | 922,803 | 1,031,904 | 601,030 |
| Information and communication | 290,854 | 301,427 | 327,394 | 337,483 | 361,815 | 388,297 | 431,329 | 432,735 |
| Financial and insurance activities | 871,377 | 961,263 | 1,037,966 | 1,120,954 | 1,181,246 | 1,240,877 | 1,268,410 | 1,289,139 |
| Real estate activities | 319,055 | 324,590 | 332,488 | 354,175 | 377,355 | 400,066 | 417,697 | 428,178 |
| Professional, scientific and technical activities | 266,926 | 267,745 | 261,390 | 254,947 | 274,638 | 284,835 | 290,661 | 275,482 |
| Administrative and support service activities | 234,426 | 231,496 | 237,026 | 240,493 | 251,605 | 263,242 | 270,832 | 210,756 |
| Public administration and defence; compulsory social security | 765,985 | 802,790 | 843,417 | 881,905 | 917,355 | 957,152 | 993,339 | 1,028,266 |
| Education | 528,167 | 565,146 | 594,280 | 612,300 | 629,952 | 651,304 | 672,087 | 690,437 |
| Human health and social work activities | 250,812 | 270,681 | 288,404 | 307,429 | 328,165 | 351,182 | 370,780 | 387,953 |
| Arts, entertainment and recreation | 65,422 | 65,640 | 70,145 | 81,153 | 91,070 | 102,411 | 116,579 | 102,040 |
| Other service activities | 175,308 | 181,557 | 185,669 | 193,690 | 204,434 | 216,334 | 222,968 | 203,784 |
| Activities of households as employers | 23,297 | 24,774 | 27,809 | 28,103 | 27,423 | 27,370 | 28,064 | 28,854 |
| Gross Domestic Product, (GDP) | 12,915,159 | 13,230,306 | 13,743,478 | 14,590,337 | 15,488,664 | 16,373,340 | 16,892,410 | 15,636,891 |
| Plus : Net primary income from the rest of the world | -825,489 | -680,697 | -708,973 | -685,365 | -693,851 | -793,104 | -627,510 | -359,068 |
| Gross National Income, (GNI) 1/ | 12,089,670 | 12,549,609 | 13,034,505 | 13,904,972 | 14,794,813 | 15,580,236 | 16,264,900 | 15,277,823 |
| Less : Consumption of fixed capital | 2,084,525 | 2,214,196 | 2,344,834 | 2,488,386 | 2,628,663 | 2,775,404 | 2,912,542 | 2,973,263 |
| Net National Income, (NNI) | 10,005,145 | 10,335,413 | 10,689,671 | 11,416,586 | 12,166,150 | 12,804,832 | 13,352,358 | 12,304,560 |
| Per capita GDP (Baht) | 192,327 | 195,807 | 202,152 | 213,553 | 225,126 | 236,927 | 243,705 | 224,962 |
| Per capita GNI (Baht) | 180,034 | 185,733 | 191,723 | 203,521 | 215,041 | 225,451 | 234,652 | 219,796 |
| Population (1,000 Heads) | 67,152 | 67,568 | 67,986 | 68,322 | 68,800 | 69,107 | 69,315 | 69,509 |

Note : ^{1/} GNI = GNP (Gross National Products)

**Table 4 Gross domestic product
at current factor cost by economic activities**

(Millions of Baht)

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
|--|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Agriculture | 1,473,403 | 1,350,216 | 1,231,908 | 1,249,157 | 1,307,451 | 1,342,837 | 1,377,204 | 1,368,456 |
| Agriculture, forestry and fishing | 1,473,403 | 1,350,216 | 1,231,908 | 1,249,157 | 1,307,451 | 1,342,837 | 1,377,204 | 1,368,456 |
| Non-agriculture | 10,101,879 | 10,609,969 | 11,107,930 | 11,887,638 | 12,654,745 | 13,386,221 | 13,828,142 | 12,818,077 |
| <i>Industrial</i> | <i>3,758,625</i> | <i>3,929,076</i> | <i>3,886,163</i> | <i>4,069,772</i> | <i>4,294,179</i> | <i>4,476,975</i> | <i>4,424,062</i> | <i>4,018,824</i> |
| Mining and quarrying | 409,178 | 413,451 | 364,614 | 339,761 | 327,469 | 352,793 | 345,026 | 265,800 |
| Manufacturing | 3,028,467 | 3,171,404 | 3,156,421 | 3,329,918 | 3,540,236 | 3,672,904 | 3,600,054 | 3,319,663 |
| Electricity, gas, steam and air conditioning supply | 275,402 | 294,216 | 311,475 | 343,285 | 366,288 | 388,165 | 412,337 | 367,048 |
| Water supply; sewerage, waste management and remediation activities | 45,578 | 50,005 | 53,653 | 56,808 | 60,186 | 63,113 | 66,645 | 66,313 |
| <i>Services</i> | <i>6,343,254</i> | <i>6,680,893</i> | <i>7,221,767</i> | <i>7,817,866</i> | <i>8,360,566</i> | <i>8,909,246</i> | <i>9,404,080</i> | <i>8,799,253</i> |
| Construction | 316,566 | 304,563 | 346,034 | 364,174 | 357,251 | 370,836 | 378,282 | 383,782 |
| Wholesale and retail trade; repair of motor vehicles and motorcycles | 1,339,604 | 1,429,304 | 1,572,302 | 1,766,249 | 1,936,216 | 2,117,515 | 2,275,867 | 2,267,436 |
| Transportation and storage | 680,226 | 710,558 | 769,473 | 851,658 | 904,046 | 939,462 | 967,700 | 736,031 |
| Accommodation and food service activities | 458,667 | 484,520 | 585,837 | 680,951 | 798,458 | 902,473 | 1,011,468 | 590,740 |
| Information and communication | 265,039 | 285,132 | 307,382 | 323,425 | 345,691 | 367,710 | 408,881 | 417,195 |
| Financial and insurance activities | 821,296 | 916,512 | 984,873 | 1,067,757 | 1,127,188 | 1,185,024 | 1,208,441 | 1,233,229 |
| Real estate activities | 245,462 | 239,352 | 254,946 | 277,512 | 288,657 | 304,059 | 323,989 | 358,409 |
| Professional, scientific and technical activities | 236,284 | 233,252 | 224,870 | 219,995 | 238,257 | 247,614 | 252,948 | 238,791 |
| Administrative and support service activities | 184,700 | 177,327 | 178,761 | 186,266 | 197,606 | 207,982 | 216,622 | 162,202 |
| Public administration and defence; compulsory social security | 765,985 | 802,790 | 843,417 | 881,905 | 917,355 | 957,152 | 993,339 | 1,028,266 |
| Education | 552,668 | 592,437 | 620,754 | 636,274 | 653,939 | 675,781 | 696,429 | 718,563 |
| Human health and social work activities | 249,362 | 269,170 | 286,849 | 305,716 | 326,304 | 349,013 | 368,529 | 387,000 |
| Arts, entertainment and recreation | 48,681 | 48,812 | 52,891 | 55,260 | 59,808 | 65,815 | 77,020 | 65,581 |
| Other service activities | 155,417 | 162,390 | 165,569 | 172,621 | 182,367 | 191,440 | 196,501 | 183,174 |
| Activities of households as employers | 23,297 | 24,774 | 27,809 | 28,103 | 27,423 | 27,370 | 28,064 | 28,854 |
| Gross domestic product, (GDP) | 11,575,282 | 11,960,185 | 12,339,838 | 13,136,795 | 13,962,196 | 14,729,058 | 15,205,346 | 14,186,533 |

Table 5 Gross domestic product
chain volume measures (reference year = 2002)

| | (Millions of Baht) | | | | | | | |
|--|--------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
| Agriculture | 660,364 | 658,463 | 615,884 | 608,753 | 638,106 | 677,010 | 671,219 | 648,007 |
| Agriculture, forestry and fishing | 660,364 | 658,463 | 615,884 | 608,753 | 638,106 | 677,010 | 671,219 | 648,007 |
| Non-agriculture | 8,512,404 | 8,610,047 | 8,972,643 | 9,320,993 | 9,704,832 | 10,097,962 | 10,342,366 | 9,676,566 |
| <i>Industrial</i> | <i>3,171,484</i> | <i>3,174,354</i> | <i>3,235,835</i> | <i>3,308,253</i> | <i>3,378,509</i> | <i>3,476,652</i> | <i>3,472,377</i> | <i>3,265,829</i> |
| Mining and quarrying | 242,838 | 238,871 | 244,576 | 246,599 | 231,893 | 225,099 | 228,904 | 208,457 |
| Manufacturing | 2,629,744 | 2,630,605 | 2,670,312 | 2,730,588 | 2,809,907 | 2,907,210 | 2,883,122 | 2,722,723 |
| Electricity, gas, steam and air conditioning supply | 257,165 | 265,070 | 277,958 | 286,156 | 291,273 | 297,762 | 311,175 | 286,415 |
| Water supply; sewerage, waste management and remediation activities | 38,763 | 39,830 | 43,419 | 46,681 | 49,776 | 52,716 | 55,683 | 56,071 |
| <i>Services</i> | <i>5,351,833</i> | <i>5,448,770</i> | <i>5,754,370</i> | <i>6,032,560</i> | <i>6,348,319</i> | <i>6,645,434</i> | <i>6,897,754</i> | <i>6,436,428</i> |
| Construction | 235,098 | 229,389 | 268,506 | 289,919 | 281,274 | 287,681 | 292,181 | 295,981 |
| Wholesale and retail trade; repair of motor vehicles and motorcycles | 1,280,384 | 1,270,224 | 1,340,744 | 1,423,314 | 1,514,519 | 1,610,858 | 1,683,855 | 1,630,334 |
| Transportation and storage | 566,749 | 584,038 | 607,677 | 639,932 | 691,372 | 718,049 | 738,073 | 568,960 |
| Accommodation and food service activities | 420,918 | 431,370 | 496,112 | 542,053 | 600,672 | 648,597 | 698,403 | 436,403 |
| Information and communication | 403,823 | 425,195 | 468,111 | 479,365 | 497,972 | 541,729 | 603,641 | 609,995 |
| Financial and insurance activities | 560,159 | 602,103 | 652,506 | 698,410 | 744,929 | 772,489 | 787,246 | 827,591 |
| Real estate activities | 331,765 | 339,124 | 344,220 | 368,471 | 393,071 | 414,466 | 430,106 | 436,739 |
| Professional, scientific and technical activities | 204,638 | 202,429 | 199,458 | 194,998 | 207,217 | 212,968 | 216,937 | 206,402 |
| Administrative and support service activities | 168,445 | 163,710 | 169,527 | 172,062 | 177,330 | 183,491 | 187,673 | 146,400 |
| Public administration and defence; compulsory social security | 495,464 | 502,006 | 507,469 | 509,645 | 513,565 | 521,430 | 528,806 | 537,481 |
| Education | 316,795 | 323,739 | 324,311 | 323,600 | 324,971 | 328,186 | 332,158 | 336,391 |
| Human health and social work activities | 191,678 | 202,005 | 208,554 | 214,831 | 223,611 | 234,365 | 243,098 | 250,763 |
| Arts, entertainment and recreation | 60,845 | 61,046 | 66,670 | 80,861 | 90,652 | 101,747 | 116,364 | 101,224 |
| Other service activities | 132,434 | 135,403 | 139,542 | 144,950 | 151,937 | 158,319 | 162,609 | 150,506 |
| Activities of households as employers | 17,731.0 | 16,946.0 | 17,580.0 | 17,564.0 | 17,072.0 | 16,633.0 | 16,535.0 | 16,989.0 |
| Gross domestic product (sum up) | 9,215,800 | 9,321,566 | 9,663,136 | 10,018,752 | 10,451,119 | 10,910,805 | 11,187,788 | 10,473,832 |
| Residual (GDP (sum up) - GDP CVM) | 73,723 | 89,477 | 141,710 | 170,250 | 191,178 | 217,601 | 264,502 | 227,297 |
| % Residual (GDP sum up) to GDP CVM | 0.8 | 1.0 | 1.5 | 1.7 | 1.9 | 2.0 | 2.4 | 2.2 |
| Gross domestic product, (CVM)^{1/} | 9,142,077 | 9,232,089 | 9,521,426 | 9,848,502 | 10,259,941 | 10,693,204 | 10,923,286 | 10,246,535 |
| Gross National Income (GNI), CVM^{2/} | 8,573,608 | 8,776,274 | 9,040,508 | 9,384,589 | 9,791,579 | 10,162,744 | 10,500,262 | 9,991,132 |

Note : ^{1/} Chain volume series are not additive. The sum of the components will thus not be equal to the shown totals.

^{2/} GNI = GNP (Gross National Products)

Table 5.1 Gross domestic product
chain indices (reference year = 2002)

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Agriculture | 131.7 | 131.3 | 122.8 | 121.4 | 127.2 | 135.0 | 133.8 | 129.2 |
| Agriculture, forestry and fishing | 131.7 | 131.3 | 122.8 | 121.4 | 127.2 | 135.0 | 133.8 | 129.2 |
| Non-agriculture | 161.6 | 163.4 | 170.3 | 176.9 | 184.2 | 191.7 | 196.3 | 183.7 |
| <i>Industrial</i> | <i>161.7</i> | <i>161.8</i> | <i>164.9</i> | <i>168.6</i> | <i>172.2</i> | <i>177.2</i> | <i>177.0</i> | <i>166.5</i> |
| Mining and quarrying | 177.2 | 174.3 | 178.5 | 180.0 | 169.2 | 164.3 | 167.0 | 152.1 |
| Manufacturing | 159.8 | 159.9 | 162.3 | 166.0 | 170.8 | 176.7 | 175.2 | 165.5 |
| Electricity, gas, steam and air conditioning supply | 168.3 | 173.5 | 181.9 | 187.3 | 190.7 | 194.9 | 203.7 | 187.5 |
| Water supply; sewerage, waste management and remediation activities | 143.9 | 147.9 | 161.2 | 173.3 | 184.8 | 195.7 | 206.7 | 208.2 |
| <i>Services</i> | <i>161.9</i> | <i>164.8</i> | <i>174.1</i> | <i>182.5</i> | <i>192.0</i> | <i>201.0</i> | <i>208.6</i> | <i>194.7</i> |
| Construction | 141.0 | 137.6 | 161.1 | 173.9 | 168.7 | 172.6 | 175.3 | 177.5 |
| Wholesale and retail trade; repair of motor vehicles and motorcycles | 141.4 | 140.3 | 148.1 | 157.2 | 167.2 | 177.9 | 185.9 | 180.0 |
| Transportation and storage | 151.9 | 156.6 | 162.9 | 171.5 | 185.3 | 192.5 | 197.9 | 152.5 |
| Accommodation and food service activities | 194.1 | 198.9 | 228.8 | 250.0 | 277.0 | 299.1 | 322.1 | 201.2 |
| Information and communication | 285.0 | 300.1 | 330.3 | 338.3 | 351.4 | 382.3 | 426.0 | 430.5 |
| Financial and insurance activities | 202.5 | 217.7 | 235.9 | 252.5 | 269.3 | 279.3 | 284.6 | 299.2 |
| Real estate activities | 144.2 | 147.4 | 149.6 | 160.2 | 170.9 | 180.2 | 187.0 | 189.9 |
| Professional, scientific and technical activities | 208.9 | 206.6 | 203.6 | 199.0 | 211.5 | 217.4 | 221.4 | 210.7 |
| Administrative and support service activities | 174.7 | 169.8 | 175.9 | 178.5 | 184.0 | 190.3 | 194.7 | 151.9 |
| Public administration and defence; compulsory social security | 145.5 | 147.4 | 149.0 | 149.6 | 150.8 | 153.1 | 155.3 | 157.8 |
| Education | 147.5 | 150.8 | 151.0 | 150.7 | 151.4 | 152.9 | 154.7 | 156.7 |
| Human health and social work activities | 160.9 | 169.6 | 175.1 | 180.3 | 187.7 | 196.7 | 204.1 | 210.5 |
| Arts, entertainment and recreation | 255.2 | 256.1 | 279.6 | 339.2 | 380.2 | 426.8 | 488.1 | 424.6 |
| Other service activities | 155.2 | 158.7 | 163.5 | 169.9 | 178.0 | 185.5 | 190.5 | 176.4 |
| Activities of households as employers | 100.7 | 96.2 | 99.8 | 99.8 | 97.0 | 94.5 | 93.9 | 96.5 |
| Gross domestic product, (GDP) | 158.5 | 160.0 | 165.0 | 170.7 | 177.8 | 185.3 | 189.3 | 177.6 |
| Gross National Income (GNI), CVM | 154.0 | 157.7 | 162.4 | 168.6 | 175.9 | 182.6 | 188.6 | 179.5 |

Table 5.2 Growth rate of gross domestic product
chain volume measures (reference year = 2002)

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p | Percent |
|--|------------|-------------|-------------|-------------|------------|------------|-------------|-------------|---------|
| Agriculture | 0.7 | -0.3 | -6.5 | -1.2 | 4.8 | 6.1 | -0.9 | -3.5 | |
| Agriculture, forestry and fishing | 0.7 | -0.3 | -6.5 | -1.2 | 4.8 | 6.1 | -0.9 | -3.5 | |
| Non-agriculture | 2.9 | 1.1 | 4.2 | 3.9 | 4.1 | 4.1 | 2.4 | -6.4 | |
| <i>Industrial</i> | 1.7 | 0.1 | 1.9 | 2.2 | 2.1 | 2.9 | -0.1 | -5.9 | |
| Mining and quarrying | 2.2 | -1.6 | 2.4 | 0.8 | -6.0 | -2.9 | 1.7 | -8.9 | |
| Manufacturing | 1.9 | 0.0 | 1.5 | 2.3 | 2.9 | 3.5 | -0.8 | -5.6 | |
| Electricity, gas, steam and air conditioning supply | -1.9 | 3.1 | 4.9 | 2.9 | 1.8 | 2.2 | 4.5 | -8.0 | |
| Water supply; sewerage, waste management and remediation activities | 7.2 | 2.8 | 9.0 | 7.5 | 6.6 | 5.9 | 5.6 | 0.7 | |
| <i>Services</i> | 3.7 | 1.8 | 5.6 | 4.8 | 5.2 | 4.7 | 3.8 | -6.7 | |
| Construction | -0.3 | -2.4 | 17.1 | 8.0 | -3.0 | 2.3 | 1.6 | 1.3 | |
| Wholesale and retail trade; repair of motor vehicles and motorcycles | 0.8 | -0.8 | 5.6 | 6.2 | 6.4 | 6.4 | 4.5 | -3.2 | |
| Transportation and storage | 5.2 | 3.1 | 4.0 | 5.3 | 8.0 | 3.9 | 2.8 | -22.9 | |
| Accommodation and food service activities | 9.7 | 2.5 | 15.0 | 9.3 | 10.8 | 8.0 | 7.7 | -37.5 | |
| Information and communication | 9.6 | 5.3 | 10.1 | 2.4 | 3.9 | 8.8 | 11.4 | 1.1 | |
| Financial and insurance activities | 12.3 | 7.5 | 8.4 | 7.0 | 6.7 | 3.7 | 1.9 | 5.1 | |
| Real estate activities | 1.0 | 2.2 | 1.5 | 7.0 | 6.7 | 5.4 | 3.8 | 1.5 | |
| Professional, scientific and technical activities | 1.8 | -1.1 | -1.5 | -2.2 | 6.3 | 2.8 | 1.9 | -4.9 | |
| Administrative and support service activities | 1.2 | -2.8 | 3.6 | 1.5 | 3.1 | 3.5 | 2.3 | -22.0 | |
| Public administration and defence; compulsory social security | 0.5 | 1.3 | 1.1 | 0.4 | 0.8 | 1.5 | 1.4 | 1.6 | |
| Education | 1.9 | 2.2 | 0.2 | -0.2 | 0.4 | 1.0 | 1.2 | 1.3 | |
| Human health and social work activities | 3.7 | 5.4 | 3.2 | 3.0 | 4.1 | 4.8 | 3.7 | 3.2 | |
| Arts, entertainment and recreation | 8.2 | 0.3 | 9.2 | 21.3 | 12.1 | 12.2 | 14.4 | -13.0 | |
| Other service activities | 5.9 | 2.2 | 3.1 | 3.9 | 4.8 | 4.2 | 2.7 | -7.4 | |
| Activities of households as employers | -7.3 | -4.4 | 3.7 | -0.1 | -2.8 | -2.6 | -0.6 | 2.7 | |
| Gross domestic product, (GDP) | 2.7 | 1.0 | 3.1 | 3.4 | 4.2 | 4.2 | 2.2 | -6.2 | |
| Gross National Income (GNI), CVM | 0.8 | 2.4 | 3.0 | 3.8 | 4.3 | 3.8 | 3.3 | -4.8 | |

Table 5.3 Contributions to growth rate of gross domestic product
chain volume measures (reference year = 2002)

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p | Percent |
|--|------------|------------|-------------|-------------|------------|------------|-------------|-------------|---------|
| Agriculture | 0.1 | 0.0 | -0.7 | -0.1 | 0.4 | 0.5 | -0.1 | -0.3 | |
| Agriculture, forestry and fishing | 0.1 | 0.0 | -0.7 | -0.1 | 0.4 | 0.5 | -0.1 | -0.3 | |
| Non-agriculture | 2.6 | 1.0 | 3.8 | 3.5 | 3.8 | 3.7 | 2.2 | -5.9 | |
| <i>Industrial</i> | 0.6 | 0.0 | 0.7 | 0.7 | 0.7 | 0.9 | 0.0 | -1.9 | |
| Mining and quarrying | 0.1 | -0.1 | 0.1 | 0.0 | -0.2 | -0.1 | 0.0 | -0.2 | |
| Manufacturing | 0.5 | 0.0 | 0.4 | 0.6 | 0.8 | 0.9 | -0.2 | -1.4 | |
| Electricity, gas, steam and air conditioning supply | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 0.1 | 0.1 | -0.2 | |
| Water supply; sewerage, waste management and remediation activities | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| <i>Services</i> | 2.0 | 1.0 | 3.1 | 2.8 | 3.1 | 2.8 | 2.3 | -4.1 | |
| Construction | 0.0 | -0.1 | 0.4 | 0.2 | -0.1 | 0.1 | 0.0 | 0.0 | |
| Wholesale and retail trade; repair of motor vehicles and motorcycles | 0.1 | -0.1 | 0.8 | 0.9 | 1.0 | 1.0 | 0.7 | -0.5 | |
| Transportation and storage | 0.3 | 0.2 | 0.2 | 0.3 | 0.5 | 0.2 | 0.2 | -1.3 | |
| Accommodation and food service activities | 0.3 | 0.1 | 0.6 | 0.4 | 0.5 | 0.4 | 0.4 | -2.3 | |
| Information and communication | 0.2 | 0.1 | 0.2 | 0.1 | 0.1 | 0.2 | 0.3 | 0.0 | |
| Financial and insurance activities | 0.7 | 0.5 | 0.6 | 0.5 | 0.5 | 0.3 | 0.1 | 0.4 | |
| Real estate activities | 0.0 | 0.1 | 0.0 | 0.2 | 0.2 | 0.1 | 0.1 | 0.0 | |
| Professional, scientific and technical activities | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | -0.1 | |
| Administrative and support service activities | 0.0 | -0.1 | 0.1 | 0.0 | 0.1 | 0.1 | 0.0 | -0.4 | |
| Public administration and defence; compulsory social security | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | |
| Education | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | |
| Human health and social work activities | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | |
| Arts, entertainment and recreation | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | -0.1 | |
| Other service activities | 0.1 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | -0.1 | |
| Activities of households as employers | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| Gross domestic product, (GDP) | 2.7 | 1.0 | 3.1 | 3.4 | 4.2 | 4.2 | 2.2 | -6.2 | |

**Table 6 Gross domestic product originating from agriculture, forestry and fishing
at current market prices**

| | (Millions of Baht) | | | | | | | |
|--|--------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
| Crop and animal production, hunting and related service activities | 1,349,641 | 1,213,571 | 1,104,801 | 1,114,435 | 1,179,168 | 1,214,255 | 1,239,286 | 1,222,646 |
| Forestry and logging | 9,901 | 11,269 | 11,593 | 12,626 | 11,897 | 12,279 | 12,057 | 12,314 |
| Fishing and aquaculture | 102,741 | 109,955 | 103,026 | 109,920 | 110,976 | 116,377 | 121,314 | 125,087 |
| Total value added | 1,462,283 | 1,334,795 | 1,219,420 | 1,236,981 | 1,302,041 | 1,342,911 | 1,372,657 | 1,360,047 |

**Table 7 Gross domestic product originating from agriculture, forestry and fishing
chain volume measures (reference year = 2002)**

| | (Millions of Baht) | | | | | | | |
|--|--------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
| Crop and animal production, hunting and related service activities | 505,212 | 508,470 | 477,126 | 470,305 | 497,229 | 528,655 | 522,935 | 502,422 |
| Forestry and logging | 7,375 | 7,961 | 8,101 | 8,741 | 8,059 | 8,234 | 7,975 | 8,211 |
| Fishing and aquaculture | 131,494 | 113,953 | 101,822 | 102,575 | 99,617 | 103,751 | 105,567 | 106,252 |
| Total value added | 660,364 | 658,463 | 615,884 | 608,753 | 638,106 | 677,010 | 671,219 | 648,007 |

Note : Chain volume series are not additive. The sum of the components will thus not be equal to the shown totals.

**Table 7.1 Gross domestic product originating from agriculture, forestry and fishing
chain indices (reference year = 2002)**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Crop and animal production, hunting and related service activities | 130.8 | 131.6 | 123.5 | 121.7 | 128.7 | 136.8 | 135.4 | 130.0 |
| Forestry and logging | 109.5 | 118.2 | 120.2 | 129.7 | 119.6 | 122.2 | 118.4 | 121.9 |
| Fishing and aquaculture | 121.3 | 105.1 | 93.9 | 94.6 | 91.9 | 95.7 | 97.4 | 98.0 |
| Total value added | 131.7 | 131.3 | 122.8 | 121.4 | 127.2 | 135.0 | 133.8 | 129.2 |

**Table 7.2 Growth rate of gross domestic product originating from agriculture, forestry and fishing
chain volume measures (reference year = 2002)**

| | Percent | | | | | | | |
|--|------------|-------------|-------------|-------------|------------|------------|-------------|-------------|
| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
| Crop and animal production, hunting and related service activities | 1.4 | 0.6 | -6.2 | -1.4 | 5.7 | 6.3 | -1.1 | -3.9 |
| Forestry and logging | -8.9 | 7.9 | 1.8 | 7.9 | -7.8 | 2.2 | -3.1 | 3.0 |
| Fishing and aquaculture | -6.3 | -13.3 | -10.6 | 0.7 | -2.9 | 4.2 | 1.8 | 0.6 |
| Total value added | 0.7 | -0.3 | -6.5 | -1.2 | 4.8 | 6.1 | -0.9 | -3.5 |

**Table 8 Gross domestic product originating from mining and quarrying
at current market prices**

| | (Millions of Baht) | | | | | | | |
|---|--------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
| Mining of coal and lignite | 12,938 | 12,744 | 11,368 | 12,155 | 12,034 | 11,865 | 10,575 | 10,275 |
| Extraction of crude petroleum and natural gas | 430,493 | 428,433 | 357,965 | 309,723 | 302,890 | 336,604 | 330,239 | 247,910 |
| Mining of metal ores | 6,113 | 6,545 | 4,180 | 5,302 | 1,347 | 79 | 53 | 36 |
| Other mining and quarrying | 47,018 | 47,905 | 57,912 | 72,573 | 69,882 | 68,443 | 70,953 | 66,972 |
| Total value added | 496,562 | 495,627 | 431,425 | 399,753 | 386,153 | 416,991 | 411,820 | 325,193 |

**Table 9 Gross domestic product originating from mining and quarrying
chain volume measures (reference year = 2002)**

| | (Millions of Baht) | | | | | | | |
|---|--------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
| Mining of coal and lignite | 6,545 | 6,509 | 5,470 | 5,721 | 5,786 | 5,805 | 5,086 | 4,769 |
| Extraction of crude petroleum and natural gas | 197,156 | 193,575 | 198,766 | 199,318 | 188,646 | 182,984 | 186,717 | 169,025 |
| Mining of metal ores | 1,568 | 1,668 | 1,131 | 1,342 | 349 | 22 | 15 | 21 |
| Other mining and quarrying | 34,054 | 33,613 | 36,761 | 37,570 | 35,771 | 35,253 | 36,116 | 33,644 |
| Total value added | 242,838 | 238,871 | 244,576 | 246,599 | 231,893 | 225,099 | 228,904 | 208,457 |

Note : Chain volume series are not additive. The sum of the components will thus not be equal to the shown totals.

**Table 9.1 Gross domestic product originating from mining and quarrying
chain indices (reference year = 2002)**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
|---|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Mining of coal and lignite | 87.5 | 87.1 | 73.2 | 76.5 | 77.4 | 77.6 | 68.0 | 63.8 |
| Extraction of crude petroleum and natural gas | 191.1 | 187.6 | 192.6 | 193.2 | 182.8 | 177.3 | 181.0 | 163.8 |
| Mining of metal ores | 69.8 | 74.3 | 50.4 | 59.8 | 15.5 | 1.0 | 0.7 | 0.9 |
| Other mining and quarrying | 141.2 | 139.3 | 152.4 | 155.7 | 148.3 | 146.1 | 149.7 | 139.5 |
| Total value added | 177.2 | 174.3 | 178.5 | 180.0 | 169.2 | 164.3 | 167.0 | 152.1 |

**Table 9.2 Growth rate of gross domestic product originating from mining and quarrying
chain volume measures (reference year = 2002)**

| | Percent | | | | | | | |
|---|------------|-------------|------------|------------|-------------|-------------|------------|-------------|
| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
| Mining of coal and lignite | 0.6 | -0.6 | -16.0 | 4.6 | 1.1 | 0.3 | -12.4 | -6.2 |
| Extraction of crude petroleum and natural gas | 2.7 | -1.8 | 2.7 | 0.3 | -5.4 | -3.0 | 2.0 | -9.5 |
| Mining of metal ores | -2.1 | 6.4 | -32.2 | 18.7 | -74.0 | -93.7 | -31.8 | 40.0 |
| Other mining and quarrying | -1.7 | -1.3 | 9.4 | 2.2 | -4.8 | -1.4 | 2.4 | -6.8 |
| Total value added | 2.2 | -1.6 | 2.4 | 0.8 | -6.0 | -2.9 | 1.7 | -8.9 |

**Table 10 Gross domestic product originating from manufacturing
at current market prices**

| | (Millions of Baht) | | | | | | | |
|---|--------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
| Food products | 520,315 | 526,674 | 532,958 | 601,977 | 604,140 | 627,095 | 609,938 | 608,437 |
| Beverages | 261,252 | 274,971 | 286,228 | 285,269 | 275,400 | 277,742 | 310,507 | 293,834 |
| Tobacco products | 60,050 | 58,198 | 56,424 | 51,333 | 42,766 | 35,674 | 33,202 | 32,546 |
| Textiles | 119,755 | 118,529 | 114,327 | 110,144 | 106,749 | 103,433 | 96,079 | 79,312 |
| Wearing apparel | 76,391 | 79,607 | 78,951 | 85,596 | 94,177 | 101,437 | 102,877 | 87,463 |
| Leather and related products | 39,854 | 43,441 | 41,036 | 42,606 | 45,321 | 47,692 | 48,823 | 42,502 |
| Wood and products of wood and cork | 38,593 | 42,553 | 43,295 | 46,817 | 47,218 | 46,199 | 47,414 | 49,589 |
| Paper and paper products | 50,821 | 52,178 | 52,402 | 53,440 | 55,370 | 58,410 | 57,455 | 57,272 |
| Printing and reproduction of recorded media | 11,841 | 11,552 | 11,478 | 11,554 | 11,748 | 11,720 | 11,059 | 10,305 |
| Coke and refined petroleum products | 237,021 | 269,519 | 310,945 | 395,980 | 440,648 | 498,049 | 491,336 | 366,780 |
| Chemicals and chemical products | 277,598 | 296,089 | 326,200 | 318,854 | 355,497 | 394,976 | 370,780 | 339,407 |
| Basic pharmaceutical products and pharmaceutical preparations | 31,973 | 33,838 | 35,568 | 38,528 | 41,181 | 45,971 | 49,880 | 54,868 |
| Rubber and plastics products | 250,830 | 245,173 | 264,573 | 281,080 | 326,847 | 301,555 | 286,837 | 267,652 |
| Non-metallic mineral products | 151,940 | 151,052 | 148,621 | 148,880 | 144,229 | 150,891 | 156,302 | 149,774 |
| Basic metals | 65,453 | 68,132 | 60,793 | 63,163 | 67,621 | 67,814 | 59,450 | 57,360 |
| Fabricated metal products, except machinery and equipment | 101,122 | 105,823 | 110,410 | 118,874 | 127,883 | 136,728 | 138,429 | 135,068 |
| Computer, electronic and optical products | 345,172 | 387,943 | 367,282 | 332,931 | 381,791 | 397,084 | 390,945 | 386,793 |
| Electrical equipment | 165,465 | 186,095 | 185,753 | 199,390 | 193,466 | 196,948 | 204,899 | 208,934 |
| Machinery and equipment not elsewhere classified | 151,677 | 149,263 | 160,332 | 162,307 | 176,644 | 185,179 | 183,373 | 181,970 |
| Motor vehicles, trailers and semi-trailers | 337,886 | 287,410 | 300,730 | 326,952 | 341,363 | 379,324 | 364,695 | 273,968 |
| Other transport equipment | 86,863 | 80,411 | 90,633 | 95,928 | 108,568 | 109,982 | 112,113 | 95,526 |
| Furniture | 32,119 | 31,788 | 33,203 | 32,783 | 35,272 | 35,401 | 34,909 | 34,735 |
| Other manufacturing | 147,576 | 146,173 | 148,192 | 153,770 | 158,476 | 162,278 | 164,166 | 169,518 |
| Repair and installation of machinery and equipment | 1,555 | 1,646 | 1,816 | 2,281 | 1,858 | 2,201 | 2,304 | 2,227 |
| Total value added | 3,563,122 | 3,648,058 | 3,762,150 | 3,960,437 | 4,184,233 | 4,373,783 | 4,327,772 | 3,985,840 |

**Table 11 Gross domestic product originating from manufacturing
chain volume measures (reference year = 2002)**

| | (Millions of Baht) | | | | | | | |
|---|--------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
| Food products | 326,661 | 335,690 | 333,035 | 338,054 | 340,421 | 366,610 | 354,887 | 337,232 |
| Beverages | 198,046 | 201,606 | 209,670 | 208,408 | 209,788 | 201,398 | 220,855 | 204,902 |
| Tobacco products | 35,862 | 34,690 | 33,707 | 30,631 | 25,467 | 21,251 | 19,722 | 19,320 |
| Textiles | 99,546 | 98,732 | 94,684 | 91,136 | 87,916 | 85,287 | 78,984 | 65,412 |
| Wearing apparel | 83,936 | 86,966 | 85,617 | 80,333 | 77,873 | 81,100 | 79,939 | 68,226 |
| Leather and related products | 37,059 | 40,113 | 37,821 | 39,368 | 41,116 | 43,184 | 45,507 | 39,621 |
| Wood and products of wood and cork | 29,563 | 32,403 | 32,634 | 35,247 | 37,788 | 36,374 | 37,134 | 38,386 |
| Paper and paper products | 43,998 | 45,463 | 45,579 | 46,314 | 46,837 | 48,468 | 48,416 | 49,937 |
| Printing and reproduction of recorded media | 8,499 | 8,306 | 7,894 | 7,588 | 7,712 | 7,916 | 7,759 | 7,173 |
| Coke and refined petroleum products | 113,893 | 117,393 | 126,783 | 127,933 | 134,169 | 139,825 | 133,355 | 128,529 |
| Chemicals and chemical products | 155,143 | 157,551 | 164,931 | 170,222 | 178,020 | 186,075 | 188,822 | 189,432 |
| Basic pharmaceutical products and pharmaceutical preparations | 30,338 | 32,124 | 33,746 | 36,536 | 39,003 | 43,535 | 47,098 | 51,765 |
| Rubber and plastics products | 143,344 | 145,817 | 154,656 | 158,628 | 171,973 | 165,114 | 157,586 | 145,474 |
| Non-metallic mineral products | 120,161 | 118,587 | 114,749 | 114,513 | 113,828 | 117,080 | 120,715 | 115,434 |
| Basic metals | 47,135 | 49,268 | 48,606 | 51,525 | 53,820 | 53,981 | 48,945 | 46,697 |
| Fabricated metal products, except machinery and equipment | 72,662 | 76,435 | 79,822 | 86,220 | 92,443 | 98,696 | 99,839 | 97,444 |
| Computer, electronic and optical products | 298,035 | 313,509 | 304,333 | 309,642 | 341,204 | 361,098 | 361,907 | 364,019 |
| Electrical equipment | 135,705 | 138,176 | 134,996 | 143,175 | 137,635 | 140,748 | 147,538 | 150,768 |
| Machinery and equipment not elsewhere classified | 137,651 | 134,931 | 140,451 | 141,831 | 154,327 | 162,187 | 161,302 | 160,560 |
| Motor vehicles, trailers and semi-trailers | 310,248 | 254,144 | 266,288 | 285,774 | 291,873 | 317,978 | 301,689 | 226,668 |
| Other transport equipment | 84,412 | 77,055 | 75,886 | 84,655 | 83,230 | 84,986 | 87,582 | 74,874 |
| Furniture | 24,648 | 24,174 | 25,045 | 24,685 | 26,483 | 26,512 | 26,148 | 26,035 |
| Other manufacturing | 78,849 | 79,448 | 81,309 | 81,684 | 81,233 | 83,721 | 83,595 | 81,508 |
| Repair and installation of machinery and equipment | 1,384 | 1,450 | 1,584 | 1,778 | 1,749 | 2,057 | 2,132 | 2,039 |
| Total value added | 2,629,744 | 2,630,605 | 2,670,312 | 2,730,588 | 2,809,907 | 2,907,210 | 2,883,122 | 2,722,723 |

Note : Chain volume series are not additive. The sum of the components will thus not be equal to the shown totals.

Table 11.1 Gross domestic product originating from manufacturing chain indices (reference year = 2002)

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
|---|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Food products | 149.1 | 153.2 | 152.0 | 154.3 | 155.4 | 167.3 | 162.0 | 153.9 |
| Beverages | 174.9 | 178.0 | 185.2 | 184.0 | 185.3 | 177.9 | 195.0 | 181.0 |
| Tobacco products | 103.7 | 100.3 | 97.4 | 88.5 | 73.6 | 61.4 | 57.0 | 55.8 |
| Textiles | 84.5 | 83.8 | 80.4 | 77.4 | 74.6 | 72.4 | 67.1 | 55.5 |
| Wearing apparel | 82.2 | 85.2 | 83.9 | 78.7 | 76.3 | 79.5 | 78.3 | 66.9 |
| Leather and related products | 100.0 | 108.3 | 102.1 | 106.2 | 111.0 | 116.5 | 122.8 | 106.9 |
| Wood and products of wood and cork | 151.5 | 166.0 | 167.2 | 180.6 | 193.6 | 186.4 | 190.2 | 196.7 |
| Paper and paper products | 114.5 | 118.3 | 118.6 | 120.5 | 121.9 | 126.2 | 126.0 | 130.0 |
| Printing and reproduction of recorded media | 107.3 | 104.9 | 99.7 | 95.8 | 97.4 | 99.9 | 98.0 | 90.6 |
| Coke and refined petroleum products | 95.8 | 98.7 | 106.6 | 107.6 | 112.8 | 117.6 | 112.2 | 108.1 |
| Chemicals and chemical products | 181.2 | 184.0 | 192.6 | 198.8 | 207.9 | 217.3 | 220.6 | 221.3 |
| Basic pharmaceutical products and pharmaceutical preparations | 158.5 | 167.8 | 176.3 | 190.8 | 203.7 | 227.4 | 246.0 | 270.4 |
| Rubber and plastics products | 158.7 | 161.5 | 171.3 | 175.7 | 190.5 | 182.9 | 174.5 | 161.1 |
| Non-metallic mineral products | 149.5 | 147.5 | 142.8 | 142.5 | 141.6 | 145.7 | 150.2 | 143.6 |
| Basic metals | 106.5 | 111.3 | 109.8 | 116.4 | 121.6 | 122.0 | 110.6 | 105.5 |
| Fabricated metal products, except machinery and equipment | 119.7 | 125.9 | 131.5 | 142.0 | 152.3 | 162.6 | 164.5 | 160.5 |
| Computer, electronic and optical products | 244.1 | 256.8 | 249.3 | 253.7 | 279.5 | 295.8 | 296.5 | 298.2 |
| Electrical equipment | 210.7 | 214.5 | 209.6 | 222.3 | 213.7 | 218.5 | 229.1 | 234.1 |
| Machinery and equipment not elsewhere classified | 245.8 | 240.9 | 250.8 | 253.3 | 275.6 | 289.6 | 288.0 | 286.7 |
| Motor vehicles, trailers and semi-trailers | 361.1 | 295.8 | 310.0 | 332.7 | 339.8 | 370.1 | 351.2 | 263.9 |
| Other transport equipment | 208.9 | 190.7 | 187.8 | 209.5 | 205.9 | 210.3 | 216.7 | 185.3 |
| Furniture | 130.9 | 128.4 | 133.0 | 131.1 | 140.7 | 140.8 | 138.9 | 138.3 |
| Other manufacturing | 116.2 | 117.1 | 119.8 | 120.4 | 119.7 | 123.4 | 123.2 | 120.1 |
| Repair and installation of machinery and equipment | 187.3 | 196.2 | 214.3 | 240.6 | 236.7 | 278.3 | 288.5 | 275.9 |
| Total value added | 159.8 | 159.9 | 162.3 | 166.0 | 170.8 | 176.7 | 175.2 | 165.5 |

**Table 11.2 Growth rate of gross domestic product originating from manufacturing
chain volume measures (reference year = 2002)**

| | Percent | | | | | | | |
|---|------------|------------|------------|------------|------------|------------|-------------|-------------|
| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
| Food products | -1.3 | 2.8 | -0.8 | 1.5 | 0.7 | 7.7 | -3.2 | -5.0 |
| Beverages | 4.4 | 1.8 | 4.0 | -0.6 | 0.7 | -4.0 | 9.7 | -7.2 |
| Tobacco products | 0.7 | -3.3 | -2.8 | -9.1 | -16.9 | -16.6 | -7.2 | -2.0 |
| Textiles | 1.7 | -0.8 | -4.1 | -3.7 | -3.5 | -3.0 | -7.4 | -17.2 |
| Wearing apparel | -4.6 | 3.6 | -1.6 | -6.2 | -3.1 | 4.1 | -1.4 | -14.7 |
| Leather and related products | 11.4 | 8.2 | -5.7 | 4.1 | 4.4 | 5.0 | 5.4 | -12.9 |
| Wood and products of wood and cork | 4.3 | 9.6 | 0.7 | 8.0 | 7.2 | -3.7 | 2.1 | 3.4 |
| Paper and paper products | -3.8 | 3.3 | 0.3 | 1.6 | 1.1 | 3.5 | -0.1 | 3.1 |
| Printing and reproduction of recorded media | -2.5 | -2.3 | -5.0 | -3.9 | 1.6 | 2.6 | -2.0 | -7.6 |
| Coke and refined petroleum products | 2.9 | 3.1 | 8.0 | 0.9 | 4.9 | 4.2 | -4.6 | -3.6 |
| Chemicals and chemical products | 6.4 | 1.6 | 4.7 | 3.2 | 4.6 | 4.5 | 1.5 | 0.3 |
| Basic pharmaceutical products and pharmaceutical preparations | 13.8 | 5.9 | 5.0 | 8.3 | 6.8 | 11.6 | 8.2 | 9.9 |
| Rubber and plastics products | 4.1 | 1.7 | 6.1 | 2.6 | 8.4 | -4.0 | -4.6 | -7.7 |
| Non-metallic mineral products | 5.2 | -1.3 | -3.2 | -0.2 | -0.6 | 2.9 | 3.1 | -4.4 |
| Basic metals | 4.4 | 4.5 | -1.3 | 6.0 | 4.5 | 0.3 | -9.3 | -4.6 |
| Fabricated metal products, except machinery and equipment | -0.9 | 5.2 | 4.4 | 8.0 | 7.2 | 6.8 | 1.2 | -2.4 |
| Computer, electronic and optical products | -2.3 | 5.2 | -2.9 | 1.7 | 10.2 | 5.8 | 0.2 | 0.6 |
| Electrical equipment | 1.3 | 1.8 | -2.3 | 6.1 | -3.9 | 2.3 | 4.8 | 2.2 |
| Machinery and equipment not elsewhere classified | 3.7 | -2.0 | 4.1 | 1.0 | 8.8 | 5.1 | -0.5 | -0.5 |
| Motor vehicles, trailers and semi-trailers | 3.8 | -18.1 | 4.8 | 7.3 | 2.1 | 8.9 | -5.1 | -24.9 |
| Other transport equipment | -6.0 | -8.7 | -1.5 | 11.6 | -1.7 | 2.1 | 3.1 | -14.5 |
| Furniture | 4.5 | -1.9 | 3.6 | -1.4 | 7.3 | 0.1 | -1.4 | -0.4 |
| Other manufacturing | 3.1 | 0.8 | 2.3 | 0.5 | -0.6 | 3.1 | -0.2 | -2.5 |
| Repair and installation of machinery and equipment | 1.6 | 4.8 | 9.2 | 12.2 | -1.6 | 17.6 | 3.6 | -4.4 |
| Total value added | 1.9 | 0.0 | 1.5 | 2.3 | 2.9 | 3.5 | -0.8 | -5.6 |

**Table 12 Gross domestic product originating from electricity, gas, steam and air conditioning supply
at current market prices**

| | (Millions of Baht) | | | | | | | |
|---|--------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
| Electric power generation, transmission and distribution | 292,649 | 305,348 | 320,690 | 342,598 | 355,233 | 379,630 | 422,897 | 387,308 |
| Manufacture of gas; distribution of gaseous fuels through mains | 20,782 | 26,064 | 22,740 | 30,440 | 41,224 | 42,404 | 23,182 | 9,597 |
| Total value added | 313,431 | 331,412 | 343,430 | 373,038 | 396,457 | 422,034 | 446,079 | 396,905 |

**Table 13 Gross domestic product originating from electricity, gas, steam and air conditioning supply
chain volume measures (reference year = 2002)**

| | (Millions of Baht) | | | | | | | |
|---|--------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
| Electric power generation, transmission and distribution | 240,846 | 247,987 | 258,484 | 264,165 | 267,519 | 274,669 | 288,464 | 265,692 |
| Manufacture of gas; distribution of gaseous fuels through mains | 13,719 | 14,351 | 16,107 | 18,291 | 19,684 | 19,364 | 19,339 | 17,579 |
| Total value added | 257,165 | 265,070 | 277,958 | 286,156 | 291,273 | 297,762 | 311,175 | 286,415 |

Note : Chain volume series are not additive. The sum of the components will thus not be equal to the shown totals.

**Table 13.1 Gross domestic product originating from electricity, gas, steam and air conditioning supply
chain indices (reference year = 2002)**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
|---|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Electric power generation, transmission and distribution | 164.6 | 169.5 | 176.7 | 180.6 | 182.9 | 187.8 | 197.2 | 181.6 |
| Manufacture of gas; distribution of gaseous fuels through mains | 211.7 | 221.5 | 248.6 | 282.3 | 303.8 | 298.9 | 298.5 | 271.3 |
| Total value added | 168.3 | 173.5 | 181.9 | 187.3 | 190.7 | 194.9 | 203.7 | 187.5 |

**Table 13.2 Growth rate of gross domestic product originating from electricity, gas, steam and air conditioning supply
chain volume measures (reference year = 2002)**

| | Percent | | | | | | | |
|---|-------------|------------|------------|------------|------------|------------|------------|-------------|
| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
| Electric power generation, transmission and distribution | -1.2 | 3.0 | 4.2 | 2.2 | 1.3 | 2.7 | 5.0 | -7.9 |
| Manufacture of gas; distribution of gaseous fuels through mains | -10.2 | 4.6 | 12.2 | 13.6 | 7.6 | -1.6 | -0.1 | -9.1 |
| Total value added | -1.9 | 3.1 | 4.9 | 2.9 | 1.8 | 2.2 | 4.5 | -8.0 |

**Table 14 Gross domestic product originating from water supply; sewerage, waste management and remediation activities
at current market prices**

| | (Millions of Baht) | | | | | | | |
|---|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
| Water collection and supply | 39,409 | 41,824 | 43,758 | 45,240 | 47,110 | 47,821 | 49,911 | 47,285 |
| Waste collection, treatment and disposal activities; materials recovery | 8,200 | 9,898 | 11,575 | 13,385 | 15,256 | 17,718 | 19,171 | 20,911 |
| Total value added | 47,609 | 51,722 | 55,333 | 58,625 | 62,366 | 65,539 | 69,082 | 68,196 |

**Table 15 Gross domestic product originating from water supply; sewerage, waste management and remediation activities
chain volume measures (reference year = 2002)**

| | (Millions of Baht) | | | | | | | |
|---|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
| Water collection and supply | 31,183 | 31,024 | 33,296 | 35,039 | 36,758 | 37,896 | 39,642 | 38,644 |
| Waste collection, treatment and disposal activities; materials recovery | 7,650 | 9,058 | 10,520 | 12,218 | 13,742 | 15,750 | 17,071 | 18,618 |
| Total value added | 38,763 | 39,830 | 43,419 | 46,681 | 49,776 | 52,716 | 55,683 | 56,071 |

Note : Chain volume series are not additive. The sum of the components will thus not be equal to the shown totals.

**Table 15.1 Gross domestic product originating from water supply; sewerage, waste management and remediation activities
chain indices (reference year = 2002)**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
|---|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Water collection and supply | 130.0 | 129.3 | 138.8 | 146.1 | 153.3 | 158.0 | 165.3 | 161.1 |
| Waste collection, treatment and disposal activities; materials recovery | 259.1 | 306.8 | 356.4 | 413.9 | 465.5 | 533.5 | 578.3 | 630.7 |
| Total value added | 143.9 | 147.9 | 161.2 | 173.3 | 184.8 | 195.7 | 206.7 | 208.2 |

**Table 15.2 Growth rate of gross domestic product originating from water supply; sewerage, waste management and remediation activities
chain volume measures (reference year = 2002)**

| | Percent | | | | | | | |
|---|------------|------------|------------|------------|------------|------------|------------|------------|
| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
| Water collection and supply | 3.9 | -0.5 | 7.3 | 5.2 | 4.9 | 3.1 | 4.6 | -2.5 |
| Waste collection, treatment and disposal activities; materials recovery | 24.9 | 18.4 | 16.1 | 16.1 | 12.5 | 14.6 | 8.4 | 9.1 |
| Total value added | 7.2 | 2.8 | 9.0 | 7.5 | 6.6 | 5.9 | 5.6 | 0.7 |

**Table 16 Gross domestic product originating from construction
at current market prices**

| | (Millions of Baht) | | | | | | | |
|--------------------------|--------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
| Private construction | 172,500 | 165,642 | 162,381 | 159,667 | 159,848 | 168,730 | 172,209 | 166,303 |
| Public construction | 172,286 | 171,401 | 217,559 | 240,709 | 234,881 | 241,427 | 246,878 | 255,712 |
| Total value added | 344,786 | 337,043 | 379,940 | 400,376 | 394,729 | 410,157 | 419,087 | 422,015 |

**Table 17 Gross domestic product originating from construction
chain volume measures (reference year = 2002)**

| | (Millions of Baht) | | | | | | | |
|--------------------------|--------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
| Private construction | 119,020 | 114,525 | 115,490 | 116,279 | 114,607 | 119,032 | 120,554 | 117,096 |
| Public construction | 115,572 | 114,325 | 151,730 | 172,088 | 165,195 | 167,182 | 170,131 | 177,290 |
| Total value added | 235,098 | 229,389 | 268,506 | 289,919 | 281,274 | 287,681 | 292,181 | 295,981 |

Note : Chain volume series are not additive. The sum of the components will thus not be equal to the shown totals.

**Table 17.1 Gross domestic product originating from construction
chain indices (reference year = 2002)**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
|--------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Private construction | 180.8 | 174.0 | 175.5 | 176.7 | 174.1 | 180.9 | 183.2 | 177.9 |
| Public construction | 114.5 | 113.3 | 150.4 | 170.5 | 163.7 | 165.7 | 168.6 | 175.7 |
| Total value added | 141.0 | 137.6 | 161.1 | 173.9 | 168.7 | 172.6 | 175.3 | 177.5 |

**Table 17.2 Growth rate of gross domestic product originating from construction
chain volume measures (reference year = 2002)**

| | Percent | | | | | | | |
|--------------------------|-------------|-------------|-------------|------------|-------------|------------|------------|------------|
| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
| Private construction | 3.7 | -3.8 | 0.8 | 0.7 | -1.4 | 3.9 | 1.3 | -2.9 |
| Public construction | -3.9 | -1.1 | 32.7 | 13.4 | -4.0 | 1.2 | 1.8 | 4.2 |
| Total value added | -0.3 | -2.4 | 17.1 | 8.0 | -3.0 | 2.3 | 1.6 | 1.3 |

Table 18 Gross domestic product originating from wholesale and retail trade; repair of motor vehicles and motorcycles at current market prices

| | (Millions of Baht) | | | | | | | |
|--|--------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
| Trade and repair of motor vehicles and motorcycles | 165,227 | 154,973 | 157,198 | 170,733 | 186,515 | 207,316 | 216,864 | 200,228 |
| Trade, except of motor vehicles and motorcycles | 1,563,979 | 1,661,209 | 1,809,241 | 2,016,396 | 2,193,145 | 2,373,670 | 2,530,623 | 2,452,113 |
| Total value added | 1,729,206 | 1,816,182 | 1,966,439 | 2,187,129 | 2,379,660 | 2,580,986 | 2,747,487 | 2,652,341 |

Table 19 Gross domestic product originating from wholesale and retail trade; repair of motor vehicles and motorcycles chain volume measures (reference year = 2002)

| | (Millions of Baht) | | | | | | | |
|--|--------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
| Trade and repair of motor vehicles and motorcycles | 169,863 | 158,580 | 161,986 | 167,968 | 176,957 | 197,451 | 205,960 | 188,828 |
| Trade, except of motor vehicles and motorcycles | 1,115,297 | 1,113,335 | 1,178,681 | 1,253,798 | 1,335,258 | 1,414,243 | 1,478,605 | 1,438,120 |
| Total value added | 1,280,384 | 1,270,224 | 1,340,744 | 1,423,314 | 1,514,519 | 1,610,858 | 1,683,855 | 1,630,334 |

Note : Chain volume series are not additive. The sum of the components will thus not be equal to the shown totals.

Table 19.1 Gross domestic product originating from wholesale and retail trade; repair of motor vehicles and motorcycles chain indices (reference year = 2002)

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Trade and repair of motor vehicles and motorcycles | 196.6 | 183.6 | 187.5 | 194.5 | 204.9 | 228.6 | 238.4 | 218.6 |
| Trade, except of motor vehicles and motorcycles | 136.1 | 135.9 | 143.9 | 153.1 | 163.0 | 172.6 | 180.5 | 175.6 |
| Total value added | 141.4 | 140.3 | 148.1 | 157.2 | 167.2 | 177.9 | 185.9 | 180.0 |

Table 19.2 Growth rate of gross domestic product originating from wholesale and retail trade; repair of motor vehicles and motorcycles chain volume measures (reference year = 2002)

| | Percent | | | | | | | |
|--|------------|-------------|------------|------------|------------|------------|------------|-------------|
| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
| Trade and repair of motor vehicles and motorcycles | 0.6 | -6.6 | 2.1 | 3.7 | 5.4 | 11.6 | 4.3 | -8.3 |
| Trade, except of motor vehicles and motorcycles | 0.8 | -0.2 | 5.9 | 6.4 | 6.5 | 5.9 | 4.6 | -2.7 |
| Total value added | 0.8 | -0.8 | 5.6 | 6.2 | 6.4 | 6.4 | 4.5 | -3.2 |

**Table 20 Gross domestic product originating from transportation and storage
at current market prices**

| | (Millions of Baht) | | | | | | | |
|---|--------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
| Land transport and transport via pipelines | 273,097 | 294,872 | 312,973 | 354,305 | 376,326 | 384,590 | 399,603 | 332,896 |
| Water transport | 127,987 | 135,351 | 147,693 | 151,448 | 154,991 | 160,123 | 163,790 | 149,844 |
| Air transport | 135,154 | 129,037 | 144,481 | 167,223 | 182,292 | 181,421 | 173,570 | 64,426 |
| Warehousing and support activities for transportation | 134,067 | 136,277 | 148,170 | 160,545 | 170,138 | 185,903 | 197,372 | 140,590 |
| Postal and courier activities | 23,298 | 25,044 | 25,818 | 31,035 | 36,894 | 43,029 | 49,441 | 59,944 |
| Total value added | 693,603 | 720,581 | 779,135 | 864,556 | 920,641 | 955,066 | 983,776 | 747,700 |

**Table 21 Gross domestic product originating from transportation and storage
chain volume measures (reference year = 2002)**

| | (Millions of Baht) | | | | | | | |
|---|--------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
| Land transport and transport via pipelines | 196,278 | 203,521 | 196,135 | 200,460 | 214,880 | 218,757 | 222,963 | 184,268 |
| Water transport | 101,382 | 107,924 | 114,690 | 119,062 | 120,224 | 125,020 | 125,737 | 123,431 |
| Air transport | 156,434 | 156,646 | 175,322 | 200,281 | 237,820 | 238,529 | 238,958 | 84,366 |
| Warehousing and support activities for transportation | 96,085 | 96,787 | 108,208 | 111,538 | 115,776 | 126,499 | 134,494 | 99,888 |
| Postal and courier activities | 16,619 | 17,800 | 17,742 | 20,284 | 23,611 | 27,620 | 31,629 | 38,038 |
| Total value added | 566,749 | 584,038 | 607,677 | 639,932 | 691,355 | 718,049 | 738,073 | 568,960 |

Note : Chain volume series are not additive. The sum of the components will thus not be equal to the shown totals.

**Table 21.1 Gross domestic product originating from transportation and storage
chain indices (reference year = 2002)**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
|---|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Land transport and transport via pipelines | 113.2 | 117.4 | 113.1 | 115.6 | 123.9 | 126.2 | 128.6 | 106.3 |
| Water transport | 207.4 | 220.8 | 234.6 | 243.5 | 245.9 | 255.7 | 257.2 | 252.5 |
| Air transport | 161.6 | 161.8 | 181.1 | 206.9 | 245.7 | 246.4 | 246.9 | 87.2 |
| Warehousing and support activities for transportation | 213.6 | 215.1 | 240.5 | 247.9 | 257.3 | 281.2 | 298.9 | 222.0 |
| Postal and courier activities | 184.8 | 197.9 | 197.2 | 225.5 | 262.5 | 307.1 | 351.6 | 422.9 |
| Total value added | 151.9 | 156.6 | 162.9 | 171.5 | 185.3 | 192.5 | 197.9 | 152.5 |

**Table 21.2 Growth rate of gross domestic product originating from transportation and storage
chain volume measures (reference year = 2002)**

| | Percent | | | | | | | |
|---|------------|------------|------------|------------|------------|------------|------------|--------------|
| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
| Land transport and transport via pipelines | 0.6 | 3.7 | -3.6 | 2.2 | 7.2 | 1.8 | 1.9 | -17.4 |
| Water transport | 5.8 | 6.5 | 6.3 | 3.8 | 1.0 | 4.0 | 0.6 | -1.8 |
| Air transport | 8.8 | 0.1 | 11.9 | 14.2 | 18.7 | 0.3 | 0.2 | -64.7 |
| Warehousing and support activities for transportation | 10.9 | 0.7 | 11.8 | 3.1 | 3.8 | 9.3 | 6.3 | -25.7 |
| Postal and courier activities | 5.9 | 7.1 | -0.3 | 14.3 | 16.4 | 17.0 | 14.5 | 20.3 |
| Total value added | 5.2 | 3.1 | 4.0 | 5.3 | 8.0 | 3.9 | 2.8 | -22.9 |

**Table 22 Gross domestic product originating from accommodation and food service activities
at current market prices**

| | (Millions of Baht) | | | | | | | |
|--------------------------------------|--------------------|----------------|----------------|----------------|----------------|----------------|------------------|----------------|
| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
| Accommodation | 203,553 | 207,497 | 265,728 | 311,783 | 368,051 | 417,365 | 455,446 | 161,574 |
| Food and beverage service activities | 269,375 | 290,280 | 334,490 | 385,027 | 449,275 | 505,438 | 576,458 | 439,456 |
| Total value added | 472,928 | 497,777 | 600,218 | 696,810 | 817,326 | 922,803 | 1,031,904 | 601,030 |

**Table 23 Gross domestic product originating from accommodation and food service activities
chain volume measures (reference year = 2002)**

| | (Millions of Baht) | | | | | | | |
|--------------------------------------|--------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
| Accommodation | 194,769 | 201,348 | 244,609 | 265,235 | 291,193 | 312,081 | 332,728 | 163,930 |
| Food and beverage service activities | 228,004 | 232,125 | 256,214 | 281,625 | 314,425 | 341,587 | 370,816 | 270,431 |
| Total value added | 420,918 | 431,370 | 496,112 | 542,053 | 600,672 | 648,597 | 698,403 | 436,403 |

Note : Chain volume series are not additive. The sum of the components will thus not be equal to the shown totals.

**Table 23.1 Gross domestic product originating from accommodation and food service activities
chain indices (reference year = 2002)**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
|--------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Accommodation | 244.6 | 252.9 | 307.2 | 333.1 | 365.7 | 391.9 | 417.8 | 205.9 |
| Food and beverage service activities | 166.2 | 169.2 | 186.7 | 205.2 | 229.1 | 248.9 | 270.2 | 197.1 |
| Total value added | 194.1 | 198.9 | 228.8 | 250.0 | 277.0 | 299.1 | 322.1 | 201.2 |

**Table 23.2 Growth rate of gross domestic product originating from accommodation and food service activities
chain volume measures (reference year = 2002)**

| | Percent | | | | | | | |
|--------------------------------------|------------|------------|-------------|------------|-------------|------------|------------|--------------|
| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
| Accommodation | 12.9 | 3.4 | 21.5 | 8.4 | 9.8 | 7.2 | 6.6 | -50.7 |
| Food and beverage service activities | 7.4 | 1.8 | 10.4 | 9.9 | 11.6 | 8.6 | 8.6 | -27.1 |
| Total value added | 9.7 | 2.5 | 15.0 | 9.3 | 10.8 | 8.0 | 7.7 | -37.5 |

**Table 24 Gross domestic product originating from information and communication
at current market prices**

| | (Millions of Baht) | | | | | | | |
|---|--------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
| Publishing activities | 14,417 | 14,455 | 16,397 | 17,441 | 15,972 | 14,471 | 14,115 | 11,904 |
| Motion picture, video and television programme production, sound recording and music publishing activities | 7,454 | 7,645 | 8,630 | 8,751 | 8,770 | 9,024 | 9,261 | 7,632 |
| Programming and broadcasting activities | 27,614 | 27,594 | 27,844 | 27,223 | 27,571 | 27,750 | 28,214 | 27,704 |
| Telecommunications | 164,889 | 166,270 | 179,459 | 183,855 | 202,056 | 222,792 | 262,297 | 264,420 |
| Computer programming, consultancy and related activities | 74,194 | 82,788 | 92,047 | 96,750 | 103,565 | 109,601 | 112,091 | 114,952 |
| Information service activities | 2,286 | 2,675 | 3,017 | 3,463 | 3,881 | 4,659 | 5,351 | 6,123 |
| Total value added | 290,854 | 301,427 | 327,394 | 337,483 | 361,815 | 388,297 | 431,329 | 432,735 |

**Table 25 Gross domestic product originating from information and communication
chain volume measures (reference year = 2002)**

| | (Millions of Baht) | | | | | | | |
|---|--------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
| Publishing activities | 12,875 | 12,862 | 14,503 | 15,401 | 14,222 | 13,105 | 12,813 | 10,652 |
| Motion picture, video and television programme production, sound recording and music publishing activities | 5,351 | 5,431 | 6,151 | 6,162 | 6,149 | 6,301 | 6,416 | 5,225 |
| Programming and broadcasting activities | 19,823 | 19,449 | 19,810 | 19,335 | 19,432 | 19,361 | 19,547 | 19,343 |
| Telecommunications | 325,932 | 342,511 | 376,620 | 381,929 | 398,348 | 452,172 | 537,233 | 546,046 |
| Computer programming, consultancy and related activities | 54,259 | 59,445 | 66,716 | 70,004 | 74,361 | 77,883 | 79,092 | 81,782 |
| Information service activities | 1,670 | 1,919 | 2,185 | 2,503 | 2,783 | 3,306 | 3,771 | 4,348 |
| Total value added | 403,823 | 425,195 | 468,111 | 479,365 | 497,972 | 541,729 | 603,641 | 609,995 |

Note : Chain volume series are not additive. The sum of the components will thus not be equal to the shown totals.

**Table 25.1 Gross domestic product originating from information and communication
chain indices (reference year = 2002)**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
|---|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Publishing activities | 119.9 | 119.8 | 135.1 | 143.5 | 132.5 | 122.1 | 119.4 | 99.2 |
| Motion picture, video and television programme production, sound recording and music publishing activities | 115.1 | 116.8 | 132.3 | 132.5 | 132.2 | 135.5 | 138.0 | 112.4 |
| Programming and broadcasting activities | 133.6 | 131.1 | 133.5 | 130.3 | 131.0 | 130.5 | 131.8 | 130.4 |
| Telecommunications | 336.1 | 353.2 | 388.4 | 393.9 | 410.8 | 466.3 | 554.1 | 563.2 |
| Computer programming, consultancy and related activities | 393.9 | 431.5 | 484.3 | 508.2 | 539.8 | 565.4 | 574.2 | 593.7 |
| Information service activities | 222.7 | 255.9 | 291.3 | 333.7 | 371.1 | 440.8 | 502.8 | 579.7 |
| Total value added | 285.0 | 300.1 | 330.3 | 338.3 | 351.4 | 382.3 | 426.0 | 430.5 |

**Table 25.2 Growth rate of gross domestic product originating from information and communication
chain volume measures (reference year = 2002)**

| | Percent | | | | | | | |
|---|------------|------------|-------------|------------|------------|------------|-------------|------------|
| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
| Publishing activities | 3.2 | -0.1 | 12.8 | 6.2 | -7.7 | -7.9 | -2.2 | -16.9 |
| Motion picture, video and television programme production, sound recording and music publishing activities | 12.0 | 1.5 | 13.3 | 0.2 | -0.2 | 2.5 | 1.8 | -18.6 |
| Programming and broadcasting activities | 8.7 | -1.9 | 1.9 | -2.4 | 0.5 | -0.4 | 1.0 | -1.0 |
| Telecommunications | 6.0 | 5.1 | 10.0 | 1.4 | 4.3 | 13.5 | 18.8 | 1.6 |
| Computer programming, consultancy and related activities | 19.9 | 9.6 | 12.2 | 4.9 | 6.2 | 4.7 | 1.6 | 3.4 |
| Information service activities | 25.9 | 14.9 | 13.9 | 14.6 | 11.2 | 18.8 | 14.1 | 15.3 |
| Total value added | 9.6 | 5.3 | 10.1 | 2.4 | 3.9 | 8.8 | 11.4 | 1.1 |

**Table 26 Gross domestic product originating from financial and insurance activities
at current market prices**

| | (Millions of Baht) | | | | | | | |
|--|--------------------|----------------|------------------|------------------|------------------|------------------|------------------|------------------|
| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
| Financial service activities | 694,738 | 766,535 | 825,929 | 872,096 | 916,368 | 953,970 | 977,867 | 1,009,366 |
| Insurance, reinsurance and pension funding | 133,372 | 154,538 | 171,988 | 204,467 | 216,709 | 234,198 | 239,335 | 230,046 |
| Activities auxiliary to financial service and insurance activities | 43,267 | 40,190 | 40,049 | 44,391 | 48,169 | 52,709 | 51,208 | 49,727 |
| Total value added | 871,377 | 961,263 | 1,037,966 | 1,120,954 | 1,181,246 | 1,240,877 | 1,268,410 | 1,289,139 |

**Table 27 Gross domestic product originating from financial and insurance activities
chain volume measures (reference year = 2002)**

| | (Millions of Baht) | | | | | | | |
|--|--------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
| Financial service activities | 426,102 | 455,833 | 492,212 | 513,978 | 549,750 | 564,571 | 577,677 | 621,593 |
| Insurance, reinsurance and pension funding | 96,031 | 110,516 | 124,147 | 147,399 | 155,011 | 165,748 | 168,173 | 162,476 |
| Activities auxiliary to financial service and insurance activities | 31,145 | 28,734 | 28,901 | 31,993 | 34,446 | 37,296 | 35,974 | 35,112 |
| Total value added | 560,159 | 602,103 | 652,506 | 698,410 | 744,929 | 772,489 | 787,246 | 827,591 |

Note : Chain volume series are not additive. The sum of the components will thus not be equal to the shown totals.

**Table 27.1 Gross domestic product originating from financial and insurance activities
chain indices (reference year = 2002)**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Financial service activities | 205.0 | 219.3 | 236.8 | 247.3 | 264.5 | 271.6 | 277.9 | 299.1 |
| Insurance, reinsurance and pension funding | 183.0 | 210.6 | 236.6 | 280.9 | 295.4 | 315.9 | 320.5 | 309.6 |
| Activities auxiliary to financial service and insurance activities | 191.0 | 176.2 | 177.2 | 196.2 | 211.2 | 228.7 | 220.6 | 215.3 |
| Total value added | 202.5 | 217.7 | 235.9 | 252.5 | 269.3 | 279.3 | 284.6 | 299.2 |

**Table 27.2 Growth rate of gross domestic product originating from financial and insurance activities
chain volume measures (reference year = 2002)**

| | Percent | | | | | | | |
|--|-------------|------------|------------|------------|------------|------------|------------|------------|
| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
| Financial service activities | 9.5 | 7.0 | 8.0 | 4.4 | 7.0 | 2.7 | 2.3 | 7.6 |
| Insurance, reinsurance and pension funding | 19.6 | 15.1 | 12.3 | 18.7 | 5.2 | 6.9 | 1.5 | -3.4 |
| Activities auxiliary to financial service and insurance activities | 43.1 | -7.7 | 0.6 | 10.7 | 7.7 | 8.3 | -3.5 | -2.4 |
| Total value added | 12.3 | 7.5 | 8.4 | 7.0 | 6.7 | 3.7 | 1.9 | 5.1 |

**Table 28 Gross domestic product originating from real estate activities
at current market prices**

| | (Millions of Baht) | | | | | | | |
|--|--------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
| Real estate activities with own or leased property | 280,267 | 288,137 | 296,728 | 316,689 | 339,204 | 358,931 | 377,310 | 392,693 |
| Real estate activities on a fee or contract basis | 38,788 | 36,453 | 35,760 | 37,486 | 38,151 | 41,135 | 40,387 | 35,485 |
| Total value added | 319,055 | 324,590 | 332,488 | 354,175 | 377,355 | 400,066 | 417,697 | 428,178 |

**Table 29 Gross domestic product originating from real estate activities
chain volume measures (reference year = 2002)**

| | (Millions of Baht) | | | | | | | |
|--|--------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
| Real estate activities with own or leased property | 301,213 | 311,926 | 317,662 | 340,437 | 364,679 | 383,979 | 401,180 | 413,360 |
| Real estate activities on a fee or contract basis | 28,483 | 26,360 | 26,056 | 27,623 | 28,429 | 30,362 | 29,637 | 25,958 |
| Total value added | 331,765 | 339,124 | 344,220 | 368,471 | 393,071 | 414,466 | 430,106 | 436,739 |

Note : Chain volume series are not additive. The sum of the components will thus not be equal to the shown totals.

**Table 29.1 Gross domestic product originating from real estate activities
chain indices (reference year = 2002)**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Real estate activities with own or leased property | 139.3 | 144.3 | 146.9 | 157.5 | 168.7 | 177.6 | 185.6 | 191.2 |
| Real estate activities on a fee or contract basis | 205.8 | 190.4 | 188.3 | 199.6 | 205.4 | 219.4 | 214.1 | 187.5 |
| Total value added | 144.2 | 147.4 | 149.6 | 160.2 | 170.9 | 180.2 | 187.0 | 189.9 |

**Table 29.2 Growth rate of gross domestic product originating from real estate activities
chain volume measures (reference year = 2002)**

| | Percent | | | | | | | |
|--|------------|------------|------------|------------|------------|------------|------------|------------|
| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
| Real estate activities with own or leased property | 1.3 | 3.6 | 1.8 | 7.2 | 7.1 | 5.3 | 4.5 | 3.0 |
| Real estate activities on a fee or contract basis | -1.1 | -7.5 | -1.2 | 6.0 | 2.9 | 6.8 | -2.4 | -12.4 |
| Total value added | 1.0 | 2.2 | 1.5 | 7.0 | 6.7 | 5.4 | 3.8 | 1.5 |

**Table 30 Gross domestic product originating from professional, scientific and technical activities
at current market prices**

| | (Millions of Baht) | | | | | | | |
|--|--------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
| Legal and accounting activities | 11,202 | 12,464 | 13,476 | 14,539 | 15,499 | 16,022 | 16,417 | 15,570 |
| Activities of head offices; management consultancy activities | 185,227 | 185,916 | 178,109 | 173,651 | 188,049 | 197,146 | 202,009 | 185,108 |
| Architectural and engineering activities; technical testing and analysis | 17,098 | 16,647 | 17,120 | 17,095 | 17,927 | 18,361 | 18,246 | 17,151 |
| Scientific research and development | 25,809 | 25,370 | 24,198 | 23,569 | 26,151 | 26,780 | 27,219 | 30,320 |
| Advertising and market research | 12,907 | 13,398 | 13,496 | 13,040 | 14,046 | 14,108 | 14,224 | 14,488 |
| Other professional, scientific and technical activities | 14,292 | 13,444 | 14,371 | 12,321 | 12,039 | 11,307 | 11,236 | 11,384 |
| Veterinary activities | 391 | 506 | 620 | 732 | 927 | 1,111 | 1,310 | 1,461 |
| Total value added | 266,926 | 267,745 | 261,390 | 254,947 | 274,638 | 284,835 | 290,661 | 275,482 |

**Table 31 Gross domestic product originating from professional, scientific and technical activities
chain volume measures (reference year = 2002)**

| | (Millions of Baht) | | | | | | | |
|--|--------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
| Legal and accounting activities | 8,235 | 9,023 | 9,859 | 10,658 | 11,200 | 11,464 | 11,721 | 11,108 |
| Activities of head offices; management consultancy activities | 136,107 | 134,535 | 130,239 | 127,233 | 135,822 | 140,976 | 144,134 | 132,902 |
| Architectural and engineering activities; technical testing and analysis | 12,560 | 12,044 | 12,516 | 12,523 | 12,945 | 13,128 | 13,017 | 12,227 |
| Scientific research and development | 18,975 | 18,369 | 17,705 | 17,279 | 18,898 | 19,167 | 19,438 | 21,635 |
| Advertising and market research | 9,486 | 9,697 | 9,871 | 9,556 | 10,147 | 10,088 | 10,148 | 10,329 |
| Other professional, scientific and technical activities | 22,103 | 21,050 | 22,254 | 19,262 | 18,853 | 17,935 | 17,992 | 18,157 |
| Veterinary activities | 356 | 456 | 551 | 647 | 809 | 958 | 1,121 | 1,258 |
| Total value added | 204,638 | 202,429 | 199,458 | 194,998 | 207,217 | 212,968 | 216,937 | 206,402 |

Note : Chain volume series are not additive. The sum of the components will thus not be equal to the shown totals.

**Table 31.1 Gross domestic product originating from professional, scientific and technical activities
chain indices (reference year = 2002)**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Legal and accounting activities | 120.1 | 131.6 | 143.8 | 155.5 | 163.4 | 167.2 | 171.0 | 162.0 |
| Activities of head offices; management consultancy activities | 183.6 | 181.5 | 175.7 | 171.7 | 183.3 | 190.2 | 194.5 | 179.3 |
| Architectural and engineering activities; technical testing and analysis | 208.4 | 199.8 | 207.6 | 207.7 | 214.7 | 217.8 | 215.9 | 202.8 |
| Scientific research and development | 4,605.6 | 4,458.5 | 4,297.3 | 4,193.9 | 4,586.9 | 4,652.2 | 4,718.0 | 5,251.2 |
| Advertising and market research | 155.7 | 159.2 | 162.1 | 156.9 | 166.6 | 165.6 | 166.6 | 169.6 |
| Other professional, scientific and technical activities | 512.0 | 487.6 | 515.5 | 446.2 | 436.7 | 415.5 | 416.8 | 420.6 |
| Veterinary activities | 235.8 | 302.0 | 364.9 | 428.5 | 535.8 | 634.4 | 742.4 | 833.1 |
| Total value added | 208.9 | 206.6 | 203.6 | 199.0 | 211.5 | 217.4 | 221.4 | 210.7 |

**Table 31.2 Growth rate of gross domestic product originating from professional, scientific and technical activities
chain volume measures (reference year = 2002)**

| | Percent | | | | | | | |
|--|------------|-------------|-------------|-------------|------------|------------|------------|-------------|
| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
| Legal and accounting activities | -3.0 | 9.6 | 9.3 | 8.1 | 5.1 | 2.4 | 2.2 | -5.2 |
| Activities of head offices; management consultancy activities | 3.3 | -1.2 | -3.2 | -2.3 | 6.8 | 3.8 | 2.2 | -7.8 |
| Architectural and engineering activities; technical testing and analysis | -0.9 | -4.1 | 3.9 | 0.1 | 3.4 | 1.4 | -0.8 | -6.1 |
| Scientific research and development | -2.9 | -3.2 | -3.6 | -2.4 | 9.4 | 1.4 | 1.4 | 11.3 |
| Advertising and market research | 2.9 | 2.2 | 1.8 | -3.2 | 6.2 | -0.6 | 0.6 | 1.8 |
| Other professional, scientific and technical activities | -2.6 | -4.8 | 5.7 | -13.4 | -2.1 | -4.9 | 0.3 | 0.9 |
| Veterinary activities | 1.7 | 28.1 | 20.8 | 17.4 | 25.0 | 18.4 | 17.0 | 12.2 |
| Total value added | 1.8 | -1.1 | -1.5 | -2.2 | 6.3 | 2.8 | 1.9 | -4.9 |

**Table 32 Gross domestic product originating from administrative and support service activities
at current market prices**

(Millions of Baht)

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
|---|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Rental and leasing activities | 80,993 | 75,325 | 74,741 | 73,670 | 73,324 | 76,163 | 77,558 | 72,897 |
| Employment activities | 10,021 | 10,262 | 11,396 | 11,938 | 12,370 | 12,761 | 13,243 | 12,011 |
| Travel agency, tour operator, reservation service and related activities | 37,159 | 37,028 | 40,672 | 44,155 | 52,294 | 57,401 | 61,073 | 14,563 |
| Security and investigation activities | 12,031 | 12,689 | 13,931 | 14,824 | 15,346 | 16,410 | 16,806 | 15,661 |
| Services to buildings and landscape activities | 16,633 | 17,035 | 17,712 | 18,850 | 19,558 | 20,230 | 20,793 | 18,931 |
| Office administrative, office support and other business support activities | 77,589 | 79,157 | 78,574 | 77,056 | 78,713 | 80,277 | 81,359 | 76,693 |
| Total value added | 234,426 | 231,496 | 237,026 | 240,493 | 251,605 | 263,242 | 270,832 | 210,756 |

**Table 33 Gross domestic product originating from administrative and support service activities
chain volume measures (reference year = 2002)**

(Millions of Baht)

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
|---|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Rental and leasing activities | 59,506 | 54,507 | 54,668 | 53,963 | 52,945 | 54,425 | 55,154 | 52,015 |
| Employment activities | 7,368 | 7,431 | 8,341 | 8,750 | 8,938 | 9,124 | 9,423 | 8,511 |
| Travel agency, tour operator, reservation service and related activities | 23,250 | 22,709 | 25,296 | 27,334 | 31,807 | 34,449 | 36,307 | 8,650 |
| Security and investigation activities | 8,840 | 9,183 | 10,190 | 10,860 | 11,082 | 11,727 | 11,951 | 11,091 |
| Services to buildings and landscape activities | 12,214 | 12,324 | 12,952 | 13,805 | 14,120 | 14,454 | 14,785 | 13,404 |
| Office administrative, office support and other business support activities | 57,036 | 57,313 | 57,505 | 56,476 | 56,870 | 57,395 | 57,887 | 54,905 |
| Total value added | 168,445 | 163,710 | 169,527 | 172,062 | 177,330 | 183,491 | 187,673 | 146,400 |

Note : Chain volume series are not additive. The sum of the components will thus not be equal to the shown totals.

**Table 33.1 Gross domestic product originating from administrative and support service activities
chain indices (reference year = 2002)**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
|---|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Rental and leasing activities | 156.3 | 143.2 | 143.6 | 141.8 | 139.1 | 143.0 | 144.9 | 136.6 |
| Employment activities | 364.6 | 367.7 | 412.7 | 433.0 | 442.3 | 451.5 | 466.3 | 421.1 |
| Travel agency, tour operator, reservation service and related activities | 154.4 | 150.8 | 168.0 | 181.5 | 211.2 | 228.8 | 241.1 | 57.4 |
| Security and investigation activities | 292.5 | 303.9 | 337.2 | 359.4 | 366.7 | 388.1 | 395.5 | 367.0 |
| Services to buildings and landscape activities | 187.3 | 189.0 | 198.7 | 211.7 | 216.6 | 221.7 | 226.8 | 205.6 |
| Office administrative, office support and other business support activities | 179.9 | 180.8 | 181.4 | 178.1 | 179.4 | 181.0 | 182.6 | 173.2 |
| Total value added | 174.7 | 169.8 | 175.9 | 178.5 | 184.0 | 190.3 | 194.7 | 151.9 |

**Table 33.2 Growth rate of gross domestic product originating from administrative and support service activities
chain volume measures (reference year = 2002)**

Percent

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
|---|------------|-------------|------------|------------|------------|------------|------------|--------------|
| Rental and leasing activities | 1.5 | -8.4 | 0.3 | -1.3 | -1.9 | 2.8 | 1.3 | -5.7 |
| Employment activities | 4.8 | 0.9 | 12.2 | 4.9 | 2.1 | 2.1 | 3.3 | -9.7 |
| Travel agency, tour operator, reservation service and related activities | 9.5 | -2.3 | 11.4 | 8.1 | 16.4 | 8.3 | 5.4 | -76.2 |
| Security and investigation activities | 5.2 | 3.9 | 11.0 | 6.6 | 2.0 | 5.8 | 1.9 | -7.2 |
| Services to buildings and landscape activities | 6.0 | 0.9 | 5.1 | 6.6 | 2.3 | 2.4 | 2.3 | -9.3 |
| Office administrative, office support and other business support activities | -4.6 | 0.5 | 0.3 | -1.8 | 0.7 | 0.9 | 0.9 | -5.2 |
| Total value added | 1.2 | -2.8 | 3.6 | 1.5 | 3.1 | 3.5 | 2.3 | -22.0 |

**Table 34 Gross domestic product originating from arts, entertainment and recreation
at current market prices**

| | (Millions of Baht) | | | | | | | |
|--|--------------------|---------------|---------------|---------------|---------------|----------------|----------------|----------------|
| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
| Creative, arts and entertainment activities | 2,129 | 2,020 | 2,205 | 2,117 | 2,138 | 2,183 | 2,218 | 2,093 |
| Libraries, archives, museums and other cultural activities | 267 | 324 | 387 | 415 | 430 | 412 | 376 | 281 |
| Gambling and betting activities | 38,867 | 38,713 | 38,570 | 48,192 | 57,255 | 66,911 | 79,572 | 70,992 |
| Sport activities and amusement and recreation activities | 24,159 | 24,583 | 28,983 | 30,429 | 31,247 | 32,905 | 34,413 | 28,674 |
| Total value added | 65,422 | 65,640 | 70,145 | 81,153 | 91,070 | 102,411 | 116,579 | 102,040 |

**Table 35 Gross domestic product originating from arts, entertainment and recreation
chain volume measures (reference year = 2002)**

| | (Millions of Baht) | | | | | | | |
|--|--------------------|---------------|---------------|---------------|---------------|----------------|----------------|----------------|
| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
| Creative, arts and entertainment activities | 2,043 | 1,932 | 2,106 | 2,021 | 2,040 | 2,080 | 2,098 | 1,978 |
| Libraries, archives, museums and other cultural activities | 325 | 399 | 467 | 498 | 520 | 519 | 472 | 346 |
| Gambling and betting activities | 27,888 | 27,266 | 28,561 | 38,507 | 45,432 | 52,549 | 62,664 | 55,598 |
| Sport activities and amusement and recreation activities | 36,010 | 37,706 | 43,799 | 46,162 | 47,862 | 51,156 | 54,034 | 44,663 |
| Total value added | 60,845 | 61,046 | 66,670 | 80,861 | 90,652 | 101,747 | 116,364 | 101,224 |

Note : Chain volume series are not additive. The sum of the components will thus not be equal to the shown totals.

**Table 35.1 Gross domestic product originating from arts, entertainment and recreation
chain indices (reference year = 2002)**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Creative, arts and entertainment activities | 327.4 | 309.6 | 337.5 | 323.9 | 326.9 | 333.3 | 336.2 | 317.0 |
| Libraries, archives, museums and other cultural activities | 95.6 | 117.4 | 137.4 | 146.5 | 152.9 | 152.6 | 138.8 | 101.8 |
| Gambling and betting activities | 221.8 | 216.9 | 227.2 | 306.3 | 361.3 | 418.0 | 498.4 | 442.2 |
| Sport activities and amusement and recreation activities | 349.5 | 365.9 | 425.1 | 448.0 | 464.5 | 496.5 | 524.4 | 433.5 |
| Total value added | 255.2 | 256.1 | 279.6 | 339.2 | 380.2 | 426.8 | 488.1 | 424.6 |

**Table 35.2 Growth rate of gross domestic product originating from arts, entertainment and recreation
chain volume measures (reference year = 2002)**

| | Percent | | | | | | | |
|--|------------|------------|------------|-------------|-------------|-------------|-------------|--------------|
| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
| Creative, arts and entertainment activities | 13.9 | -5.4 | 9.0 | -4.0 | 0.9 | 2.0 | 0.9 | -5.7 |
| Libraries, archives, museums and other cultural activities | 0.3 | 22.8 | 17.0 | 6.6 | 4.4 | -0.2 | -9.1 | -26.7 |
| Gambling and betting activities | -0.4 | -2.2 | 4.7 | 34.8 | 18.0 | 15.7 | 19.2 | -11.3 |
| Sport activities and amusement and recreation activities | 24.1 | 4.7 | 16.2 | 5.4 | 3.7 | 6.9 | 5.6 | -17.3 |
| Total value added | 8.2 | 0.3 | 9.2 | 21.3 | 12.1 | 12.2 | 14.4 | -13.0 |

**Table 36 Gross domestic product originating from other service activities
at current market prices**

| | (Millions of Baht) | | | | | | | |
|--|--------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
| Activities of membership organizations | 27,297 | 28,086 | 28,759 | 29,155 | 30,280 | 31,797 | 31,984 | 30,477 |
| Repair of computers and personal and household goods | 79,556 | 82,241 | 83,900 | 88,027 | 94,195 | 99,540 | 103,771 | 100,431 |
| Other personal service activities | 68,455 | 71,230 | 73,010 | 76,508 | 79,959 | 84,997 | 87,213 | 72,876 |
| Total value added | 175,308 | 181,557 | 185,669 | 193,690 | 204,434 | 216,334 | 222,968 | 203,784 |

**Table 37 Gross domestic product originating from other service activities
chain volume measures (reference year = 2002)**

| | (Millions of Baht) | | | | | | | |
|--|--------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
| Activities of membership organizations | 19,540 | 19,735 | 20,395 | 20,634 | 21,288 | 22,116 | 22,091 | 21,186 |
| Repair of computers and personal and household goods | 60,469 | 61,927 | 64,176 | 67,661 | 72,047 | 74,672 | 77,946 | 77,060 |
| Other personal service activities | 51,953 | 53,278 | 54,492 | 56,211 | 58,199 | 61,084 | 62,186 | 52,129 |
| Total value added | 132,434 | 135,403 | 139,542 | 144,950 | 151,937 | 158,319 | 162,609 | 150,506 |

Note : Chain volume series are not additive. The sum of the components will thus not be equal to the shown totals.

**Table 37.1 Gross domestic product originating from other service activities
chain indices (reference year = 2002)**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Activities of membership organizations | 228.4 | 230.6 | 238.3 | 241.1 | 248.8 | 258.5 | 258.2 | 247.6 |
| Repair of computers and personal and household goods | 225.9 | 231.3 | 239.7 | 252.7 | 269.1 | 278.9 | 291.1 | 287.8 |
| Other personal service activities | 103.9 | 106.5 | 109.0 | 112.4 | 116.4 | 122.1 | 124.4 | 104.2 |
| Total value added | 155.2 | 158.7 | 163.5 | 169.9 | 178.0 | 185.5 | 190.5 | 176.4 |

**Table 37.2 Growth rate of gross domestic product originating from other service activities
chain volume measures (reference year = 2002)**

| | Percent | | | | | | | |
|--|------------|------------|------------|------------|------------|------------|------------|-------------|
| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
| Activities of membership organizations | 6.8 | 1.0 | 3.3 | 1.2 | 3.2 | 3.9 | -0.1 | -4.1 |
| Repair of computers and personal and household goods | 4.2 | 2.4 | 3.6 | 5.4 | 6.5 | 3.6 | 4.4 | -1.1 |
| Other personal service activities | 7.5 | 2.6 | 2.3 | 3.2 | 3.5 | 5.0 | 1.8 | -16.2 |
| Total value added | 5.9 | 2.2 | 3.1 | 3.9 | 4.8 | 4.2 | 2.7 | -7.4 |

***Gross Domestic Product
(Expenditure)***

**Table 38 Composition of private final consumption expenditure
at current market prices**

| | (Millions of Baht) | | | | | | | |
|--|--------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
| Individual consumption expenditure of households | 7,502,260 | 7,643,857 | 7,959,989 | 8,310,891 | 8,811,308 | 9,237,853 | 9,676,451 | 8,398,346 |
| Food and non-alcoholic | 1,858,282 | 1,917,188 | 1,961,940 | 2,038,672 | 2,061,402 | 2,091,895 | 2,210,373 | 2,292,409 |
| <i>Food</i> | 1,616,657 | 1,669,734 | 1,710,676 | 1,784,477 | 1,804,992 | 1,825,223 | 1,933,921 | 2,016,982 |
| Bread and cereals | 361,517 | 376,621 | 380,171 | 387,110 | 386,122 | 394,248 | 419,529 | 444,552 |
| Meat | 194,167 | 212,389 | 215,353 | 221,986 | 222,618 | 218,083 | 230,891 | 245,115 |
| Fish | 202,566 | 195,350 | 199,793 | 208,266 | 215,204 | 215,800 | 222,767 | 231,665 |
| Milk, cheese and eggs | 141,814 | 144,778 | 140,695 | 147,765 | 151,743 | 156,611 | 157,910 | 165,018 |
| Oil and fat | 85,098 | 91,302 | 89,637 | 83,462 | 85,254 | 82,732 | 82,142 | 88,148 |
| Fruit | 153,732 | 158,888 | 163,158 | 171,016 | 178,307 | 187,984 | 199,970 | 203,664 |
| Vegetables | 372,524 | 380,903 | 408,782 | 449,152 | 446,836 | 446,885 | 489,669 | 503,616 |
| Sugar, jam, honey, chocolate and confectionery | 51,098 | 52,807 | 53,958 | 53,915 | 54,987 | 55,660 | 57,957 | 58,951 |
| Food products n.e.c. | 54,141 | 56,696 | 59,129 | 61,805 | 63,921 | 67,220 | 73,086 | 76,253 |
| <i>Non-alcoholic beverages</i> | 241,625 | 247,454 | 251,264 | 254,195 | 256,410 | 266,672 | 276,452 | 275,427 |
| Alcoholic beverages, tobacco and narcotic | 255,988 | 264,832 | 270,515 | 281,891 | 287,214 | 289,185 | 291,797 | 278,123 |
| <i>Alcoholic beverages</i> | 172,575 | 178,588 | 184,085 | 181,524 | 180,667 | 176,742 | 181,263 | 169,946 |
| <i>Tobacco</i> | 83,413 | 86,244 | 86,430 | 100,367 | 106,547 | 112,443 | 110,534 | 108,177 |
| Clothing and footwear | 333,514 | 333,965 | 348,188 | 363,489 | 371,511 | 382,354 | 392,746 | 320,398 |
| <i>Clothing</i> | 304,331 | 303,211 | 315,305 | 329,545 | 336,975 | 347,092 | 356,725 | 290,264 |
| <i>Footwear</i> | 29,183 | 30,754 | 32,883 | 33,944 | 34,536 | 35,262 | 36,021 | 30,134 |
| Housing, water, electricity, gas and other fuels | 646,148 | 687,411 | 718,604 | 737,130 | 766,719 | 799,986 | 839,689 | 857,802 |
| <i>Housing and water</i> | 441,515 | 465,375 | 490,782 | 512,892 | 542,686 | 566,643 | 586,248 | 600,007 |
| <i>Electricity, gas and other fuels</i> | 204,633 | 222,036 | 227,822 | 224,238 | 224,033 | 233,343 | 253,441 | 257,795 |
| Furnishings, households equipment and routine maintenance of the house | 308,190 | 318,740 | 332,920 | 334,813 | 342,918 | 359,610 | 369,194 | 353,630 |
| <i>Furniture and furnishings, carpets and other floor covering</i> | 25,390 | 25,469 | 26,686 | 26,572 | 27,117 | 28,798 | 29,101 | 27,918 |
| <i>Households equipment and routine maintenance of the house</i> | 282,800 | 293,271 | 306,234 | 308,241 | 315,801 | 330,812 | 340,093 | 325,712 |
| Health | 329,353 | 343,909 | 358,763 | 378,323 | 393,782 | 414,681 | 435,494 | 462,245 |
| Transport | 1,265,225 | 1,129,091 | 1,065,411 | 1,069,580 | 1,191,956 | 1,298,115 | 1,315,799 | 1,045,394 |
| <i>Purchase of vehicles</i> | 480,754 | 331,077 | 302,467 | 307,901 | 369,883 | 420,017 | 422,130 | 340,213 |
| <i>Operation of personal transport equipment</i> | 447,849 | 456,596 | 408,970 | 407,185 | 452,859 | 494,306 | 496,593 | 432,922 |
| <i>Transport services</i> | 336,622 | 341,418 | 353,974 | 354,494 | 369,214 | 383,792 | 397,076 | 272,259 |
| Communication | 155,176 | 156,451 | 162,153 | 165,564 | 175,327 | 184,058 | 190,148 | 192,143 |
| Recreation and culture | 383,395 | 386,418 | 393,524 | 454,055 | 486,072 | 513,344 | 528,054 | 419,183 |
| <i>Audio-visual, photographic and information processing equipment</i> | 88,017 | 87,343 | 73,874 | 73,517 | 78,869 | 78,702 | 83,729 | 86,056 |
| <i>Other recreation and entertainment</i> | 237,113 | 239,975 | 262,387 | 325,478 | 354,117 | 381,775 | 392,436 | 282,790 |
| <i>Newspaper, books and stationery</i> | 58,265 | 59,100 | 57,263 | 55,060 | 53,086 | 52,867 | 51,889 | 50,337 |
| Education | 94,398 | 95,462 | 101,379 | 105,648 | 110,988 | 117,825 | 123,425 | 121,942 |
| Restaurants and hotels | 1,058,545 | 1,120,131 | 1,278,216 | 1,355,958 | 1,538,632 | 1,634,145 | 1,770,920 | 908,487 |
| Miscellaneous goods and services | 814,046 | 890,259 | 968,376 | 1,025,768 | 1,084,787 | 1,152,655 | 1,208,812 | 1,146,590 |
| <i>Personal care</i> | 140,988 | 153,215 | 169,966 | 176,784 | 189,010 | 194,441 | 208,141 | 212,063 |
| <i>Personal effects n.e.c.</i> | 163,120 | 182,164 | 214,836 | 238,174 | 258,206 | 280,564 | 302,484 | 261,741 |
| <i>Financial services</i> | 400,997 | 441,116 | 465,953 | 489,460 | 505,023 | 537,738 | 553,109 | 548,625 |
| <i>Other services n.e.c.</i> | 108,941 | 113,764 | 117,621 | 121,350 | 132,548 | 139,912 | 145,078 | 124,161 |
| Individual consumption expenditure of non-profit institutions serving households (NPISHs) | 132,065 | 144,252 | 144,725 | 145,949 | 149,527 | 152,836 | 158,180 | 150,008 |
| <i>Health, education, and social protection</i> | 72,135 | 77,503 | 77,342 | 77,148 | 82,240 | 84,225 | 86,678 | 85,136 |
| <i>Other services n.e.c.</i> | 59,930 | 66,749 | 67,383 | 68,801 | 67,287 | 68,611 | 71,502 | 64,872 |
| Private final consumption expenditure in the domestic market | 7,634,325 | 7,788,109 | 8,104,714 | 8,456,840 | 8,960,835 | 9,390,689 | 9,834,631 | 8,548,354 |
| Plus : Expenditure of residents abroad | 188,700 | 215,003 | 239,935 | 290,023 | 321,458 | 353,053 | 344,332 | 101,162 |
| Less : Expenditure of non-residents in the country | 1,035,821 | 1,044,473 | 1,288,103 | 1,450,311 | 1,703,558 | 1,739,056 | 1,772,468 | 347,944 |
| Private final consumption expenditure | 6,787,204 | 6,958,639 | 7,056,546 | 7,296,552 | 7,578,735 | 8,004,686 | 8,406,495 | 8,301,572 |

Table 39 Composition of private final consumption expenditure
chain volume measures (reference year = 2002)

| | (Millions of Baht) | | | | | | | |
|--|--------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
| Individual consumption expenditure of households | 5,308,082 | 5,306,412 | 5,574,451 | 5,790,310 | 6,096,216 | 6,333,230 | 6,567,010 | 5,721,239 |
| Food and non-alcoholic | 895,137 | 902,910 | 922,877 | 942,830 | 964,750 | 986,121 | 1,010,749 | 1,033,571 |
| Food | 709,685 | 715,023 | 732,320 | 750,117 | 769,318 | 785,357 | 803,666 | 826,458 |
| Bread and cereals | 171,841 | 177,905 | 179,856 | 183,788 | 185,854 | 186,585 | 188,852 | 194,676 |
| Meat | 110,768 | 112,225 | 116,748 | 119,880 | 123,366 | 123,639 | 124,189 | 126,225 |
| Fish | 108,242 | 97,869 | 98,943 | 100,143 | 101,296 | 101,412 | 102,554 | 105,735 |
| Milk, cheese and eggs | 88,994 | 89,645 | 90,029 | 92,279 | 95,922 | 99,089 | 98,871 | 103,489 |
| Oil and fat | 43,773 | 46,570 | 47,019 | 44,770 | 46,172 | 48,876 | 50,709 | 51,468 |
| Fruit | 43,029 | 43,964 | 44,704 | 45,035 | 47,157 | 50,851 | 53,164 | 54,880 |
| Vegetables | 91,233 | 92,796 | 97,560 | 103,191 | 106,571 | 108,582 | 112,485 | 115,495 |
| Sugar, jam, honey, chocolate and confectionery | 32,549 | 32,050 | 32,059 | 31,656 | 32,152 | 31,656 | 32,398 | 33,111 |
| Food products n.e.c. | 41,490 | 42,138 | 43,484 | 44,739 | 45,039 | 47,732 | 51,767 | 53,026 |
| Non-alcoholic beverages | 204,546 | 207,912 | 209,597 | 210,302 | 211,724 | 218,356 | 226,294 | 222,252 |
| Alcoholic beverages, tobacco and narcotic | 208,513 | 204,218 | 207,397 | 200,544 | 199,363 | 195,513 | 199,590 | 191,186 |
| Alcoholic beverages | 151,743 | 145,087 | 147,805 | 142,333 | 141,439 | 137,817 | 142,617 | 133,595 |
| Tobacco | 56,158 | 57,704 | 58,224 | 56,794 | 56,500 | 56,012 | 55,949 | 55,534 |
| Clothing and footwear | 290,835 | 284,688 | 288,308 | 295,285 | 301,711 | 305,382 | 310,753 | 251,947 |
| Clothing | 261,070 | 253,849 | 255,767 | 262,045 | 267,815 | 270,849 | 275,519 | 222,691 |
| Footwear | 31,126 | 32,586 | 34,659 | 35,382 | 36,064 | 36,798 | 37,571 | 31,393 |
| Housing, water, electricity, gas and other fuels | 574,489 | 595,425 | 623,768 | 650,268 | 677,521 | 699,039 | 727,795 | 751,871 |
| Housing and water | 430,276 | 449,072 | 467,279 | 486,145 | 512,492 | 532,224 | 548,853 | 562,382 |
| Electricity, gas and other fuels | 140,431 | 143,354 | 152,299 | 159,461 | 161,663 | 164,157 | 174,854 | 184,048 |
| Furnishings, households equipment and routine maintenance of the house | 287,094 | 292,501 | 301,948 | 303,081 | 312,445 | 328,434 | 338,759 | 329,854 |
| Furniture and furnishings, carpets and other floor covering | 26,116 | 25,748 | 26,629 | 26,326 | 27,388 | 29,403 | 30,058 | 29,109 |
| Households equipment and routine maintenance of the house | 260,374 | 266,047 | 274,595 | 275,988 | 284,290 | 298,291 | 307,906 | 299,952 |
| Health | 304,290 | 313,074 | 323,326 | 338,618 | 349,200 | 367,556 | 386,268 | 409,486 |
| Transport | 804,490 | 713,461 | 735,203 | 767,245 | 830,591 | 879,600 | 890,053 | 735,107 |
| Purchase of vehicles | 435,114 | 293,513 | 266,130 | 270,020 | 323,504 | 366,267 | 368,052 | 297,396 |
| Operation of personal transport equipment | 191,618 | 195,025 | 214,534 | 229,941 | 235,893 | 240,197 | 243,197 | 232,997 |
| Transport services | 234,163 | 237,871 | 251,541 | 260,525 | 272,858 | 282,595 | 287,901 | 195,676 |
| Communication | 196,805 | 217,781 | 231,361 | 236,490 | 250,854 | 263,006 | 271,904 | 274,761 |
| Recreation and culture | 366,552 | 365,174 | 372,687 | 433,406 | 462,654 | 484,765 | 497,526 | 396,356 |
| Audio-visual, photographic and information processing equipment | 99,558 | 98,379 | 82,794 | 81,825 | 87,695 | 88,089 | 94,300 | 97,040 |
| Other recreation and entertainment | 211,125 | 210,888 | 232,316 | 291,970 | 315,183 | 336,115 | 343,711 | 249,036 |
| Newspaper, books and stationery | 53,009 | 52,888 | 50,565 | 48,448 | 48,000 | 47,420 | 46,824 | 45,276 |
| Education | 90,151 | 90,239 | 94,088 | 95,519 | 98,168 | 103,197 | 107,704 | 106,334 |
| Restaurants and hotels | 794,734 | 814,304 | 915,296 | 964,207 | 1,066,212 | 1,111,948 | 1,196,612 | 628,452 |
| Miscellaneous goods and services | 570,631 | 610,497 | 669,442 | 692,665 | 731,140 | 772,656 | 803,449 | 752,317 |
| Personal care | 116,208 | 124,399 | 136,415 | 140,568 | 149,703 | 152,578 | 162,845 | 165,322 |
| Personal effects n.e.c. | 95,776 | 106,483 | 131,051 | 135,051 | 146,752 | 162,427 | 171,678 | 137,868 |
| Financial services | 274,577 | 292,373 | 307,492 | 319,608 | 329,098 | 345,061 | 353,227 | 352,968 |
| Other services n.e.c. | 78,037 | 79,977 | 84,419 | 86,931 | 94,324 | 98,516 | 101,436 | 87,369 |
| Individual consumption expenditure of non-profit institutions serving households (NPISHs) | 95,631 | 102,512 | 101,973 | 103,575 | 105,410 | 106,570 | 109,521 | 104,530 |
| Health, education, and social protection | 52,234 | 55,077 | 54,784 | 55,040 | 58,283 | 59,040 | 60,333 | 59,640 |
| Other services n.e.c. | 43,399 | 47,438 | 47,193 | 48,531 | 47,149 | 47,553 | 49,208 | 44,932 |
| Private final consumption expenditure in the domestic market | 5,403,594 | 5,408,649 | 5,676,266 | 5,893,735 | 6,201,534 | 6,439,758 | 6,676,504 | 5,825,568 |
| Plus : Expenditure of residents abroad | 143,833 | 160,884 | 181,197 | 218,528 | 240,633 | 261,521 | 253,228 | 74,556 |
| Less : Expenditure of non-residents in the country | 813,539 | 808,294 | 987,273 | 1,107,337 | 1,294,919 | 1,314,275 | 1,326,723 | 267,520 |
| Private final consumption expenditure | 4,759,900 | 4,785,280 | 4,909,901 | 5,051,349 | 5,207,330 | 5,445,519 | 5,661,555 | 5,606,781 |

Note : Chain volume series are not additive. The sum of the components will thus not be equal to the shown totals.

Table 39.1 Composition of private final consumption expenditure chain indices (reference year = 2002)

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Individual consumption expenditure of households | 158.4 | 158.4 | 166.4 | 172.8 | 181.9 | 189.0 | 196.0 | 170.8 |
| Food and non-alcoholic | 123.7 | 124.7 | 127.5 | 130.2 | 133.3 | 136.2 | 139.6 | 142.8 |
| Food | 115.2 | 116.1 | 118.9 | 121.8 | 124.9 | 127.5 | 130.5 | 134.2 |
| Bread and cereals | 115.6 | 119.7 | 121.0 | 123.6 | 125.0 | 125.5 | 127.0 | 131.0 |
| Meat | 127.9 | 129.5 | 134.8 | 138.4 | 142.4 | 142.7 | 143.4 | 145.7 |
| Fish | 137.3 | 124.1 | 125.5 | 127.0 | 128.5 | 128.6 | 130.0 | 134.1 |
| Milk, cheese and eggs | 124.9 | 125.8 | 126.3 | 129.5 | 134.6 | 139.0 | 138.7 | 145.2 |
| Oil and fat | 209.6 | 223.0 | 225.2 | 214.4 | 221.1 | 234.1 | 242.8 | 246.5 |
| Fruit | 79.0 | 80.7 | 82.1 | 82.7 | 86.6 | 93.3 | 97.6 | 100.7 |
| Vegetables | 104.1 | 105.9 | 111.3 | 117.8 | 121.6 | 123.9 | 128.4 | 131.8 |
| Sugar, jam, honey, chocolate and confectionery | 125.7 | 123.7 | 123.8 | 122.2 | 124.1 | 122.2 | 125.1 | 127.8 |
| Food products n.e.c. | 99.7 | 101.3 | 104.5 | 107.6 | 108.3 | 114.8 | 124.5 | 127.5 |
| Non-alcoholic beverages | 189.3 | 192.4 | 194.0 | 194.6 | 196.0 | 202.1 | 209.4 | 205.7 |
| Alcoholic beverages, tobacco and narcotic | 121.2 | 118.8 | 120.6 | 116.6 | 115.9 | 113.7 | 116.1 | 111.2 |
| Alcoholic beverages | 131.5 | 125.7 | 128.1 | 123.3 | 122.6 | 119.4 | 123.6 | 115.8 |
| Tobacco | 99.3 | 102.0 | 102.9 | 100.4 | 99.9 | 99.0 | 98.9 | 98.2 |
| Clothing and footwear | 122.4 | 119.8 | 121.3 | 124.3 | 127.0 | 128.5 | 130.8 | 106.0 |
| Clothing | 118.2 | 114.9 | 115.8 | 118.6 | 121.2 | 122.6 | 124.7 | 100.8 |
| Footwear | 186.2 | 195.0 | 207.4 | 211.7 | 215.8 | 220.1 | 224.8 | 187.8 |
| Housing, water, electricity, gas and other fuels | 151.2 | 156.7 | 164.1 | 171.1 | 178.3 | 184.0 | 191.5 | 197.9 |
| Housing and water | 145.5 | 151.8 | 158.0 | 164.4 | 173.3 | 179.9 | 185.6 | 190.1 |
| Electricity, gas and other fuels | 166.7 | 170.2 | 180.8 | 189.3 | 191.9 | 194.9 | 207.6 | 218.5 |
| Furnishings, households equipment and routine maintenance of the house | 184.9 | 188.4 | 194.5 | 195.2 | 201.2 | 211.5 | 218.2 | 212.5 |
| Furniture and furnishings, carpets and other floor covering | 97.2 | 95.8 | 99.1 | 98.0 | 101.9 | 109.4 | 111.9 | 108.3 |
| Households equipment and routine maintenance of the house | 202.8 | 207.2 | 213.9 | 215.0 | 221.4 | 232.3 | 239.8 | 233.6 |
| Health | 193.1 | 198.7 | 205.2 | 214.9 | 221.6 | 233.3 | 245.2 | 259.9 |
| Transport | 176.6 | 156.6 | 161.4 | 168.4 | 182.3 | 193.1 | 195.4 | 161.3 |
| Purchase of vehicles | 332.8 | 224.5 | 203.6 | 206.5 | 247.4 | 280.2 | 281.5 | 227.5 |
| Operation of personal transport equipment | 120.9 | 123.0 | 135.4 | 145.1 | 148.8 | 151.5 | 153.4 | 147.0 |
| Transport services | 140.8 | 143.0 | 151.2 | 156.6 | 164.0 | 169.9 | 173.1 | 117.6 |
| Communication | 217.0 | 240.1 | 255.0 | 260.7 | 276.5 | 289.9 | 299.7 | 302.9 |
| Recreation and culture | 204.9 | 204.2 | 208.4 | 242.3 | 258.6 | 271.0 | 278.1 | 221.6 |
| Audio-visual, photographic and information processing equipment | 156.5 | 154.6 | 130.1 | 128.6 | 137.8 | 138.5 | 148.2 | 152.5 |
| Other recreation and entertainment | 250.1 | 249.8 | 275.2 | 345.9 | 373.4 | 398.2 | 407.1 | 295.0 |
| Newspaper, books and stationery | 171.9 | 171.5 | 164.0 | 157.1 | 155.7 | 153.8 | 151.9 | 146.8 |
| Education | 158.4 | 158.6 | 165.4 | 167.9 | 172.5 | 181.4 | 189.3 | 186.9 |
| Restaurants and hotels | 185.2 | 189.7 | 213.3 | 224.7 | 248.4 | 259.1 | 278.8 | 146.4 |
| Miscellaneous goods and services | 182.3 | 195.1 | 213.9 | 221.3 | 233.6 | 246.9 | 256.7 | 240.4 |
| Personal care | 179.9 | 192.5 | 211.1 | 217.6 | 231.7 | 236.2 | 252.0 | 255.9 |
| Personal effects n.e.c. | 190.0 | 211.3 | 260.0 | 267.9 | 291.2 | 322.3 | 340.6 | 273.5 |
| Financial services | 209.8 | 223.4 | 235.0 | 244.2 | 251.5 | 263.7 | 269.9 | 269.7 |
| Other services n.e.c. | 116.4 | 119.3 | 125.9 | 129.6 | 140.7 | 146.9 | 151.3 | 130.3 |
| Individual consumption expenditure of non-profit institutions serving households (NPISHs) | 166.8 | 178.8 | 177.9 | 180.7 | 183.9 | 185.9 | 191.1 | 182.4 |
| Health, education, and social protection | 121.1 | 127.7 | 127.0 | 127.6 | 135.1 | 136.8 | 139.8 | 138.2 |
| Other services n.e.c. | 306.2 | 334.7 | 333.0 | 342.4 | 332.7 | 335.5 | 347.2 | 317.0 |
| Private final consumption expenditure in the domestic market | 158.6 | 158.7 | 166.6 | 172.9 | 182.0 | 189.0 | 195.9 | 170.9 |
| Plus : Expenditure of residents abroad | 126.5 | 141.5 | 159.4 | 192.2 | 211.7 | 230.1 | 222.8 | 65.6 |
| Less : Expenditure of non-residents in the country | 262.1 | 260.4 | 318.1 | 356.8 | 417.3 | 423.5 | 427.5 | 86.2 |
| Private final consumption expenditure | 148.2 | 149.0 | 152.9 | 157.3 | 162.2 | 169.6 | 176.3 | 174.6 |

Table 39.2 Growth rate of composition of private final consumption expenditure
chain volume measures (reference year = 2002)

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p | Percent |
|--|-------------|--------------|-------------|-------------|-------------|-------------|------------|--------------|---------|
| Individual consumption expenditure of households | 3.2 | 0.0 | 5.1 | 3.9 | 5.3 | 3.9 | 3.7 | -12.9 | |
| Food and non-alcoholic | -1.0 | 0.9 | 2.2 | 2.2 | 2.3 | 2.2 | 2.5 | 2.3 | |
| <i>Food</i> | -1.6 | 0.8 | 2.4 | 2.4 | 2.6 | 2.1 | 2.3 | 2.8 | |
| <i>Bread and cereals</i> | 0.2 | 3.5 | 1.1 | 2.2 | 1.1 | 0.4 | 1.2 | 3.1 | |
| <i>Meat</i> | -0.4 | 1.3 | 4.0 | 2.7 | 2.9 | 0.2 | 0.4 | 1.6 | |
| <i>Fish</i> | -7.5 | -9.6 | 1.1 | 1.2 | 1.2 | 0.1 | 1.1 | 3.1 | |
| <i>Milk, cheese and eggs</i> | 6.1 | 0.7 | 0.4 | 2.5 | 3.9 | 3.3 | -0.2 | 4.7 | |
| <i>Oil and fat</i> | 2.2 | 6.4 | 1.0 | -4.8 | 3.1 | 5.9 | 3.8 | 1.5 | |
| <i>Fruit</i> | -1.5 | 2.2 | 1.7 | 0.7 | 4.7 | 7.8 | 4.5 | 3.2 | |
| <i>Vegetables</i> | -5.1 | 1.7 | 5.1 | 5.8 | 3.3 | 1.9 | 3.6 | 2.7 | |
| <i>Sugar, jam, honey, chocolate and confectionery</i> | 1.2 | -1.5 | 0.0 | -1.3 | 1.6 | -1.5 | 2.3 | 2.2 | |
| <i>Food products n.e.c.</i> | 1.1 | 1.6 | 3.2 | 2.9 | 0.7 | 6.0 | 8.5 | 2.4 | |
| Non-alcoholic beverages | 3.0 | 1.6 | 0.8 | 0.3 | 0.7 | 3.1 | 3.6 | -1.8 | |
| Alcoholic beverages, tobacco and narcotic | -2.8 | -2.1 | 1.6 | -3.3 | -0.6 | -1.9 | 2.1 | -4.2 | |
| Alcoholic beverages | -5.0 | -4.4 | 1.9 | -3.7 | -0.6 | -2.6 | 3.5 | -6.3 | |
| Tobacco | 2.5 | 2.8 | 0.9 | -2.5 | -0.5 | -0.9 | -0.1 | -0.7 | |
| Clothing and footwear | -3.2 | -2.1 | 1.3 | 2.4 | 2.2 | 1.2 | 1.8 | -18.9 | |
| Clothing | -4.2 | -2.8 | 0.8 | 2.5 | 2.2 | 1.1 | 1.7 | -19.2 | |
| Footwear | 9.0 | 4.7 | 6.4 | 2.1 | 1.9 | 2.0 | 2.1 | -16.4 | |
| Housing, water, electricity, gas and other fuels | 1.7 | 3.6 | 4.8 | 4.2 | 4.2 | 3.2 | 4.1 | 3.3 | |
| Housing and water | 1.9 | 4.4 | 4.1 | 4.0 | 5.4 | 3.9 | 3.1 | 2.5 | |
| Electricity, gas and other fuels | 1.3 | 2.1 | 6.2 | 4.7 | 1.4 | 1.5 | 6.5 | 5.3 | |
| Furnishings, households equipment and routine maintenance of the house | -0.6 | 1.9 | 3.2 | 0.4 | 3.1 | 5.1 | 3.1 | -2.6 | |
| Furniture and furnishings, carpets and other floor covering | 1.7 | -1.4 | 3.4 | -1.1 | 4.0 | 7.4 | 2.2 | -3.2 | |
| Households equipment and routine maintenance of the house | -0.8 | 2.2 | 3.2 | 0.5 | 3.0 | 4.9 | 3.2 | -2.6 | |
| Health | 5.3 | 2.9 | 3.3 | 4.7 | 3.1 | 5.3 | 5.1 | 6.0 | |
| Transport | 1.0 | -11.3 | 3.0 | 4.4 | 8.3 | 5.9 | 1.2 | -17.4 | |
| Purchase of vehicles | -3.0 | -32.5 | -9.3 | 1.5 | 19.8 | 13.2 | 0.5 | -19.2 | |
| Operation of personal transport equipment | 3.7 | 1.8 | 10.0 | 7.2 | 2.6 | 1.8 | 1.2 | -4.2 | |
| Transport services | 3.6 | 1.6 | 5.7 | 3.6 | 4.7 | 3.6 | 1.9 | -32.0 | |
| Communication | 6.1 | 10.7 | 6.2 | 2.2 | 6.1 | 4.8 | 3.4 | 1.1 | |
| Recreation and culture | 7.2 | -0.4 | 2.1 | 16.3 | 6.7 | 4.8 | 2.6 | -20.3 | |
| Audio-visual, photographic and information processing equipment | -0.8 | -1.2 | -15.8 | -1.2 | 7.2 | 0.4 | 7.1 | 2.9 | |
| Other recreation and entertainment | 10.3 | -0.1 | 10.2 | 25.7 | 8.0 | 6.6 | 2.3 | -27.5 | |
| Newspaper, books and stationery | 8.1 | -0.2 | -4.4 | -4.2 | -0.9 | -1.2 | -1.3 | -3.3 | |
| Education | 5.8 | 0.1 | 4.3 | 1.5 | 2.8 | 5.1 | 4.4 | -1.3 | |
| Restaurants and hotels | 11.6 | 2.5 | 12.4 | 5.3 | 10.6 | 4.3 | 7.6 | -47.5 | |
| Miscellaneous goods and services | 11.0 | 7.0 | 9.7 | 3.5 | 5.6 | 5.7 | 4.0 | -6.4 | |
| Personal care | 6.1 | 7.0 | 9.7 | 3.0 | 6.5 | 1.9 | 6.7 | 1.5 | |
| Personal effects n.e.c. | 10.9 | 11.2 | 23.1 | 3.1 | 8.7 | 10.7 | 5.7 | -19.7 | |
| Financial services | 15.1 | 6.5 | 5.2 | 3.9 | 3.0 | 4.9 | 2.4 | -0.1 | |
| Other services n.e.c. | 3.7 | 2.5 | 5.6 | 3.0 | 8.5 | 4.4 | 3.0 | -13.9 | |
| Individual consumption expenditure of non-profit institutions serving households (NPISHs) | 5.8 | 7.2 | -0.5 | 1.6 | 1.8 | 1.1 | 2.8 | -4.6 | |
| Health, education, and social protection | 4.2 | 5.4 | -0.5 | 0.5 | 5.9 | 1.3 | 2.2 | -1.1 | |
| Other services n.e.c. | 7.9 | 9.3 | -0.5 | 2.8 | -2.8 | 0.9 | 3.5 | -8.7 | |
| Private final consumption expenditure in the domestic market | 3.3 | 0.1 | 4.9 | 3.8 | 5.2 | 3.8 | 3.7 | -12.7 | |
| Plus : Expenditure of residents abroad | -0.9 | 11.9 | 12.6 | 20.6 | 10.1 | 8.7 | -3.2 | -70.6 | |
| Less : Expenditure of non-residents in the country | 20.6 | -0.6 | 22.1 | 12.2 | 16.9 | 1.5 | 0.9 | -79.8 | |
| Private final consumption expenditure | 1.0 | 0.5 | 2.6 | 2.9 | 3.1 | 4.6 | 4.0 | -1.0 | |

Table 40 Composition of private final consumption expenditure by type and durability at current market prices

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Individual consumption expenditure of households | 7,502,260 | 7,643,857 | 7,959,989 | 8,310,891 | 8,811,308 | 9,237,853 | 9,676,451 | 8,398,346 |
| Food and non-alcoholic | 1,858,282 | 1,917,188 | 1,961,940 | 2,038,672 | 2,061,402 | 2,091,895 | 2,210,373 | 2,292,409 |
| Non-durable goods | 1,858,282 | 1,917,188 | 1,961,940 | 2,038,672 | 2,061,402 | 2,091,895 | 2,210,373 | 2,292,409 |
| Alcoholic beverages, tobacco and narcotic | 255,988 | 264,832 | 270,515 | 281,891 | 287,214 | 289,185 | 291,797 | 278,123 |
| Non-durable goods | 255,988 | 264,832 | 270,515 | 281,891 | 287,214 | 289,185 | 291,797 | 278,123 |
| Clothing and footwear | 333,514 | 333,965 | 348,188 | 363,489 | 371,511 | 382,354 | 392,746 | 320,398 |
| Semi-durable goods | 329,207 | 329,756 | 343,611 | 359,511 | 367,520 | 378,304 | 388,712 | 317,297 |
| Services | 4,307 | 4,209 | 4,577 | 3,978 | 3,991 | 4,050 | 4,034 | 3,101 |
| Housing, water, electricity, gas and other fuels | 646,148 | 687,411 | 718,604 | 737,130 | 766,719 | 799,986 | 839,689 | 857,802 |
| Non-durable goods | 241,003 | 262,268 | 268,818 | 265,714 | 266,507 | 276,479 | 297,907 | 301,506 |
| Services | 405,145 | 425,143 | 449,786 | 471,416 | 500,212 | 523,507 | 541,782 | 556,296 |
| Furnishings, households equipment and routine maintenance of the house | 308,190 | 318,740 | 332,920 | 334,813 | 342,918 | 359,610 | 369,194 | 353,630 |
| Durable goods | 71,549 | 72,043 | 73,998 | 73,860 | 74,124 | 75,945 | 77,421 | 73,905 |
| Semi-durable goods | 157,699 | 163,946 | 170,862 | 169,988 | 174,784 | 185,967 | 191,243 | 181,821 |
| Non-durable goods | 45,199 | 47,089 | 49,088 | 51,101 | 53,220 | 55,523 | 57,204 | 55,119 |
| Services | 33,743 | 35,662 | 38,972 | 39,864 | 40,790 | 42,175 | 43,326 | 42,785 |
| Health | 329,353 | 343,909 | 358,763 | 378,323 | 393,782 | 414,681 | 435,494 | 462,245 |
| Durable goods | 6,096 | 6,375 | 6,511 | 6,819 | 6,781 | 7,504 | 8,154 | 7,598 |
| Non-durable goods | 129,225 | 138,706 | 147,430 | 160,771 | 171,053 | 175,922 | 185,638 | 198,764 |
| Services | 194,032 | 198,828 | 204,822 | 210,733 | 215,948 | 231,255 | 241,702 | 255,883 |
| Transport | 1,265,225 | 1,129,091 | 1,065,411 | 1,069,580 | 1,191,956 | 1,298,115 | 1,315,799 | 1,045,394 |
| Durable goods | 480,754 | 331,077 | 302,467 | 307,901 | 369,883 | 420,017 | 422,130 | 340,213 |
| Semi-durable goods | 28,706 | 28,408 | 30,999 | 31,691 | 32,963 | 34,384 | 35,116 | 32,319 |
| Non-durable goods | 370,827 | 378,652 | 324,834 | 317,948 | 358,449 | 396,246 | 397,528 | 347,260 |
| Services | 384,938 | 390,954 | 407,111 | 412,040 | 430,661 | 447,468 | 461,025 | 325,602 |
| Communication | 155,176 | 156,451 | 162,153 | 165,564 | 175,327 | 184,058 | 190,148 | 192,143 |
| Durable goods | 7,306 | 7,497 | 7,467 | 7,543 | 7,658 | 7,757 | 7,951 | 7,855 |
| Services | 147,870 | 148,954 | 154,686 | 158,021 | 167,669 | 176,301 | 182,197 | 184,288 |
| Recreation and culture | 383,395 | 386,418 | 393,524 | 454,055 | 486,072 | 513,344 | 528,054 | 419,183 |
| Durable goods | 79,365 | 78,529 | 65,500 | 64,710 | 69,415 | 68,850 | 73,682 | 76,219 |
| Semi-durable goods | 43,204 | 43,656 | 44,085 | 41,346 | 43,088 | 44,780 | 42,611 | 42,127 |
| Non-durable goods | 43,166 | 42,880 | 40,530 | 41,715 | 39,866 | 39,774 | 39,970 | 39,547 |
| Services | 217,660 | 221,353 | 243,409 | 306,284 | 333,703 | 359,940 | 371,791 | 261,290 |
| Education | 94,398 | 95,462 | 101,379 | 105,648 | 110,988 | 117,825 | 123,425 | 121,942 |
| Services | 94,398 | 95,462 | 101,379 | 105,648 | 110,988 | 117,825 | 123,425 | 121,942 |
| Restaurants and hotels | 1,058,545 | 1,120,131 | 1,278,216 | 1,355,958 | 1,538,632 | 1,634,145 | 1,770,920 | 908,487 |
| Services | 1,058,545 | 1,120,131 | 1,278,216 | 1,355,958 | 1,538,632 | 1,634,145 | 1,770,920 | 908,487 |
| Miscellaneous goods and services | 814,046 | 890,259 | 968,376 | 1,025,768 | 1,084,787 | 1,152,655 | 1,208,812 | 1,146,590 |
| Durable goods | 130,220 | 134,886 | 154,960 | 173,172 | 192,099 | 209,547 | 227,339 | 188,424 |
| Semi-durable goods | 32,762 | 47,294 | 59,976 | 65,149 | 66,305 | 71,314 | 75,405 | 73,700 |
| Non-durable goods | 108,698 | 119,367 | 132,333 | 136,714 | 147,033 | 150,597 | 161,593 | 174,852 |
| Services | 542,366 | 588,712 | 621,107 | 650,733 | 679,350 | 721,197 | 744,475 | 709,614 |
| Individual consumption expenditure of non-profit institutions serving households (NPISHs) | 132,065 | 144,252 | 144,725 | 145,949 | 149,527 | 152,836 | 158,180 | 150,008 |
| Semi-durable goods | 961 | 1,092 | 1,115 | 1,091 | 1,020 | 977 | 971 | 925 |
| Non-durable goods | 22,851 | 24,483 | 25,808 | 25,915 | 26,637 | 27,115 | 27,879 | 27,119 |
| Services | 108,253 | 118,677 | 117,802 | 118,943 | 121,870 | 124,744 | 129,330 | 121,964 |
| Private final consumption expenditure in the domestic market | 7,634,325 | 7,788,109 | 8,104,714 | 8,456,840 | 8,960,835 | 9,390,689 | 9,834,631 | 8,548,354 |
| Plus : Expenditure of residents abroad | 188,700 | 215,003 | 239,935 | 290,023 | 321,458 | 353,053 | 344,332 | 101,162 |
| Less : Expenditure of non-residents in the country | 1,035,821 | 1,044,473 | 1,288,103 | 1,450,311 | 1,703,558 | 1,739,056 | 1,772,468 | 347,944 |
| Private final consumption expenditure | 6,787,204 | 6,958,639 | 7,056,546 | 7,296,552 | 7,578,735 | 8,004,686 | 8,406,495 | 8,301,572 |
| Durable goods | 775,291 | 630,408 | 610,904 | 634,005 | 719,961 | 789,620 | 816,678 | 694,214 |
| Semi-durable goods | 592,540 | 614,152 | 650,648 | 668,775 | 685,680 | 715,727 | 734,059 | 648,190 |
| Non-durable goods | 3,075,239 | 3,195,465 | 3,221,300 | 3,320,441 | 3,411,381 | 3,502,738 | 3,669,888 | 3,714,699 |
| Services | 2,344,134 | 2,518,614 | 2,573,694 | 2,673,331 | 2,761,713 | 2,996,601 | 3,185,870 | 3,244,469 |

Table 41 Composition of private final consumption expenditure by type and durability
chain volume measures (reference year = 2002)

| | (Millions of Baht) | | | | | | | |
|--|--------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
| Individual consumption expenditure of households | 5,308,082 | 5,306,412 | 5,574,451 | 5,790,310 | 6,096,216 | 6,333,230 | 6,567,010 | 5,721,239 |
| Food and non-alcoholic | 895,137 | 902,910 | 922,877 | 942,830 | 964,750 | 986,121 | 1,010,749 | 1,033,571 |
| <i>Non-durable goods</i> | 895,137 | 902,910 | 922,877 | 942,830 | 964,750 | 986,121 | 1,010,749 | 1,033,571 |
| Alcoholic beverages, tobacco and narcotic | 208,513 | 204,218 | 207,397 | 200,544 | 199,363 | 195,513 | 199,590 | 191,186 |
| <i>Non-durable goods</i> | 208,513 | 204,218 | 207,397 | 200,544 | 199,363 | 195,513 | 199,590 | 191,186 |
| Clothing and footwear | 290,835 | 284,688 | 288,308 | 295,285 | 301,711 | 305,382 | 310,753 | 251,947 |
| <i>Semi-durable goods</i> | 286,829 | 280,796 | 284,164 | 291,682 | 298,086 | 301,783 | 307,189 | 249,220 |
| <i>Services</i> | 4,056 | 3,940 | 4,212 | 3,600 | 3,615 | 3,581 | 3,535 | 2,686 |
| Housing, water, electricity, gas and other fuels | 574,489 | 595,425 | 623,768 | 650,268 | 677,521 | 699,039 | 727,795 | 751,871 |
| <i>Non-durable goods</i> | 171,728 | 176,055 | 186,371 | 194,248 | 197,074 | 200,296 | 212,077 | 222,240 |
| <i>Services</i> | 398,168 | 415,341 | 432,296 | 450,718 | 476,559 | 495,608 | 511,367 | 524,111 |
| Furnishings, households equipment and routine maintenance of the house | 287,094 | 292,501 | 301,948 | 303,081 | 312,445 | 328,434 | 338,759 | 329,854 |
| <i>Durable goods</i> | 75,138 | 75,288 | 76,803 | 76,537 | 77,954 | 80,650 | 83,374 | 81,425 |
| <i>Semi-durable goods</i> | 157,161 | 162,366 | 168,110 | 166,707 | 173,023 | 185,537 | 191,969 | 186,457 |
| <i>Non-durable goods</i> | 34,010 | 34,938 | 36,231 | 37,988 | 39,600 | 41,081 | 42,188 | 40,696 |
| <i>Services</i> | 24,665 | 24,085 | 24,963 | 25,316 | 25,550 | 25,770 | 26,257 | 26,027 |
| Health | 304,290 | 313,074 | 323,326 | 338,618 | 349,200 | 367,556 | 386,268 | 409,486 |
| <i>Durable goods</i> | 7,388 | 7,303 | 7,181 | 7,307 | 7,059 | 7,803 | 8,472 | 7,848 |
| <i>Non-durable goods</i> | 123,235 | 131,630 | 139,315 | 152,403 | 160,359 | 165,006 | 174,437 | 186,377 |
| <i>Services</i> | 174,507 | 175,204 | 178,086 | 180,698 | 183,837 | 196,631 | 205,485 | 217,447 |
| Transport | 804,490 | 713,461 | 735,203 | 767,245 | 830,591 | 879,600 | 890,053 | 735,107 |
| <i>Durable goods</i> | 435,113 | 293,512 | 266,129 | 270,019 | 323,503 | 366,266 | 368,051 | 297,396 |
| <i>Semi-durable goods</i> | 22,123 | 21,743 | 24,237 | 24,794 | 25,364 | 26,057 | 26,570 | 24,705 |
| <i>Non-durable goods</i> | 141,238 | 144,033 | 158,565 | 170,730 | 174,487 | 176,869 | 179,313 | 175,647 |
| <i>Services</i> | 265,075 | 269,513 | 285,944 | 297,447 | 311,594 | 322,912 | 328,128 | 230,312 |
| Communication | 196,805 | 217,781 | 231,361 | 236,490 | 250,854 | 263,006 | 271,904 | 274,761 |
| <i>Durable goods</i> | 11,340 | 12,819 | 12,894 | 13,031 | 13,235 | 13,413 | 13,753 | 13,691 |
| <i>Services</i> | 185,764 | 205,344 | 218,732 | 223,704 | 237,773 | 249,671 | 258,210 | 261,093 |
| Recreation and culture | 366,552 | 365,174 | 372,687 | 433,406 | 462,654 | 484,765 | 497,526 | 396,356 |
| <i>Durable goods</i> | 93,126 | 91,806 | 75,986 | 74,423 | 79,783 | 79,792 | 85,981 | 88,960 |
| <i>Semi-durable goods</i> | 41,419 | 41,488 | 41,584 | 38,799 | 40,355 | 42,012 | 40,081 | 39,629 |
| <i>Non-durable goods</i> | 38,110 | 37,294 | 34,892 | 35,935 | 35,607 | 35,039 | 35,458 | 35,099 |
| <i>Services</i> | 191,558 | 192,030 | 212,974 | 271,774 | 293,694 | 313,136 | 321,622 | 227,291 |
| Education | 90,151 | 90,239 | 94,088 | 95,519 | 98,168 | 103,197 | 107,704 | 106,334 |
| <i>Services</i> | 90,151 | 90,239 | 94,088 | 95,519 | 98,168 | 103,197 | 107,704 | 106,334 |
| Restaurants and hotels | 794,734 | 814,304 | 915,296 | 964,207 | 1,066,212 | 1,111,948 | 1,196,612 | 628,452 |
| <i>Services</i> | 794,734 | 814,304 | 915,296 | 964,207 | 1,066,212 | 1,111,948 | 1,196,612 | 628,452 |
| Miscellaneous goods and services | 570,631 | 610,497 | 669,442 | 692,665 | 731,140 | 772,656 | 803,449 | 752,317 |
| <i>Durable goods</i> | 72,021 | 75,125 | 91,640 | 93,371 | 103,459 | 114,101 | 118,627 | 90,615 |
| <i>Semi-durable goods</i> | 26,345 | 36,618 | 46,271 | 49,090 | 50,590 | 56,636 | 62,715 | 57,927 |
| <i>Non-durable goods</i> | 90,771 | 98,401 | 107,924 | 110,807 | 118,792 | 121,384 | 130,163 | 140,418 |
| <i>Services</i> | 382,028 | 402,701 | 424,784 | 440,841 | 458,742 | 479,476 | 492,160 | 472,182 |
| Individual consumption expenditure of non-profit institutions serving households (NPISHs) | 95,631 | 102,512 | 101,973 | 103,575 | 105,410 | 106,570 | 109,521 | 104,530 |
| <i>Semi-durable goods</i> | 957 | 1,079 | 1,095 | 1,076 | 1,007 | 962 | 955 | 909 |
| <i>Non-durable goods</i> | 18,210 | 19,078 | 19,829 | 19,852 | 20,283 | 20,335 | 20,542 | 19,785 |
| <i>Services</i> | 76,432 | 82,286 | 81,082 | 82,638 | 84,093 | 85,213 | 87,920 | 83,749 |
| Private final consumption expenditure in the domestic market | 5,403,594 | 5,408,649 | 5,676,266 | 5,893,735 | 6,201,534 | 6,439,758 | 6,676,504 | 5,825,568 |
| Plus : Expenditure of residents abroad | 143,834 | 160,885 | 181,198 | 218,529 | 240,634 | 261,522 | 253,229 | 74,556 |
| Less : Expenditure of non-residents in the country | 813,539 | 808,294 | 987,273 | 1,107,338 | 1,294,920 | 1,314,276 | 1,326,724 | 267,520 |
| Private final consumption expenditure | 4,759,900 | 4,785,280 | 4,909,901 | 5,051,349 | 5,207,330 | 5,445,519 | 5,661,555 | 5,606,781 |
| <i>Durable goods</i> | 688,974 | 554,835 | 543,060 | 548,337 | 622,381 | 684,658 | 701,224 | 585,639 |
| <i>Semi-durable goods</i> | 533,609 | 543,311 | 565,958 | 573,837 | 589,832 | 613,702 | 630,413 | 555,185 |
| <i>Non-durable goods</i> | 1,690,013 | 1,713,980 | 1,778,176 | 1,828,280 | 1,870,783 | 1,903,113 | 1,959,190 | 1,994,293 |
| <i>Services</i> | 1,915,014 | 2,023,460 | 2,063,082 | 2,141,261 | 2,176,395 | 2,324,483 | 2,460,820 | 2,518,850 |

Note : Chain volume series are not additive. The sum of the components will thus not be equal to the shown totals.

Table 41.1 Composition of private final consumption expenditure by type and durability chain indices (reference year = 2002)

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Individual consumption expenditure of households | 159.5 | 159.5 | 167.5 | 174.0 | 183.2 | 190.3 | 197.4 | 171.9 |
| Food and non-alcoholic | 124.3 | 125.4 | 128.1 | 130.9 | 133.9 | 136.9 | 140.3 | 143.5 |
| <i>Non-durable goods</i> | 124.3 | 125.4 | 128.1 | 130.9 | 133.9 | 136.9 | 140.3 | 143.5 |
| Alcoholic beverages, tobacco and narcotic | 121.2 | 118.8 | 120.6 | 116.6 | 115.9 | 113.7 | 116.1 | 111.2 |
| <i>Non-durable goods</i> | 121.2 | 118.8 | 120.6 | 116.6 | 115.9 | 113.7 | 116.1 | 111.2 |
| Clothing and footwear | 122.4 | 119.8 | 121.3 | 124.3 | 127.0 | 128.5 | 130.8 | 106.0 |
| <i>Semi-durable goods</i> | 121.7 | 119.1 | 120.6 | 123.7 | 126.5 | 128.0 | 130.3 | 105.7 |
| <i>Services</i> | 210.3 | 204.3 | 218.4 | 186.6 | 187.4 | 185.6 | 183.2 | 139.2 |
| Housing, water, electricity, gas and other fuels | 151.2 | 156.7 | 164.1 | 171.1 | 178.3 | 184.0 | 191.5 | 197.9 |
| <i>Non-durable goods</i> | 166.8 | 171.0 | 181.1 | 188.7 | 191.5 | 194.6 | 206.0 | 215.9 |
| <i>Services</i> | 143.7 | 149.9 | 156.0 | 162.7 | 172.0 | 178.9 | 184.6 | 189.2 |
| Furnishings, households equipment and routine maintenance of the house | 184.9 | 188.4 | 194.5 | 195.2 | 201.2 | 211.5 | 218.2 | 212.5 |
| <i>Durable goods</i> | 242.8 | 243.3 | 248.2 | 247.3 | 251.9 | 260.6 | 269.4 | 263.1 |
| <i>Semi-durable goods</i> | 214.3 | 221.4 | 229.3 | 227.3 | 236.0 | 253.0 | 261.8 | 254.3 |
| <i>Non-durable goods</i> | 141.5 | 145.4 | 150.8 | 158.1 | 164.8 | 171.0 | 175.6 | 169.4 |
| <i>Services</i> | 91.5 | 89.3 | 92.6 | 93.9 | 94.8 | 95.6 | 97.4 | 96.5 |
| Health | 193.1 | 198.7 | 205.2 | 214.9 | 221.6 | 233.3 | 245.2 | 259.9 |
| <i>Durable goods</i> | 561.4 | 554.9 | 545.7 | 555.2 | 536.4 | 592.9 | 643.8 | 596.3 |
| <i>Non-durable goods</i> | 215.8 | 230.5 | 244.0 | 266.9 | 280.8 | 289.0 | 305.5 | 326.4 |
| <i>Services</i> | 176.0 | 176.7 | 179.7 | 182.3 | 185.5 | 198.4 | 207.3 | 219.4 |
| Transport | 176.8 | 156.8 | 161.6 | 168.6 | 182.5 | 193.3 | 195.6 | 161.6 |
| <i>Durable goods</i> | 332.8 | 224.5 | 203.6 | 206.5 | 247.4 | 280.2 | 281.5 | 227.5 |
| <i>Semi-durable goods</i> | 145.1 | 142.7 | 159.0 | 162.7 | 166.4 | 171.0 | 174.3 | 162.1 |
| <i>Non-durable goods</i> | 117.1 | 119.4 | 131.5 | 141.6 | 144.7 | 146.6 | 148.7 | 145.6 |
| <i>Services</i> | 140.9 | 143.2 | 151.9 | 158.1 | 165.6 | 171.6 | 174.4 | 122.4 |
| Communication | 216.9 | 240.1 | 255.0 | 260.7 | 276.5 | 289.9 | 299.7 | 302.9 |
| <i>Durable goods</i> | 208.3 | 235.5 | 236.8 | 239.4 | 243.1 | 246.4 | 252.6 | 251.5 |
| <i>Services</i> | 217.9 | 240.8 | 256.5 | 262.3 | 278.8 | 292.8 | 302.8 | 306.2 |
| Recreation and culture | 208.0 | 207.2 | 211.4 | 245.9 | 262.5 | 275.0 | 282.3 | 224.9 |
| <i>Durable goods</i> | 158.3 | 156.1 | 129.2 | 126.5 | 135.6 | 135.6 | 146.2 | 151.2 |
| <i>Semi-durable goods</i> | 234.4 | 234.8 | 235.4 | 219.6 | 228.4 | 237.8 | 226.9 | 224.3 |
| <i>Non-durable goods</i> | 139.7 | 136.7 | 127.9 | 131.8 | 130.5 | 128.5 | 130.0 | 128.7 |
| <i>Services</i> | 261.9 | 262.6 | 291.2 | 371.6 | 401.6 | 428.2 | 439.8 | 310.8 |
| Education | 158.4 | 158.6 | 165.4 | 167.9 | 172.5 | 181.4 | 189.3 | 186.9 |
| <i>Services</i> | 158.4 | 158.6 | 165.4 | 167.9 | 172.5 | 181.4 | 189.3 | 186.9 |
| Restaurants and hotels | 191.8 | 196.5 | 220.9 | 232.7 | 257.3 | 268.3 | 288.8 | 151.7 |
| <i>Services</i> | 191.8 | 196.5 | 220.9 | 232.7 | 257.3 | 268.3 | 288.8 | 151.7 |
| Miscellaneous goods and services | 182.5 | 195.2 | 214.1 | 221.5 | 233.8 | 247.1 | 256.9 | 240.6 |
| <i>Durable goods</i> | 163.6 | 170.7 | 208.2 | 212.1 | 235.0 | 259.2 | 269.5 | 205.8 |
| <i>Semi-durable goods</i> | 419.5 | 583.0 | 736.7 | 781.6 | 805.5 | 901.7 | 998.5 | 922.3 |
| <i>Non-durable goods</i> | 184.1 | 199.6 | 218.9 | 224.8 | 241.0 | 246.2 | 264.1 | 284.9 |
| <i>Services</i> | 179.3 | 189.0 | 199.3 | 206.9 | 215.3 | 225.0 | 231.0 | 221.6 |
| Individual consumption expenditure of non-profit institutions serving households (NPISHs) | 166.8 | 178.8 | 177.9 | 180.7 | 183.9 | 185.9 | 191.1 | 182.4 |
| <i>Semi-durable goods</i> | 421.6 | 475.3 | 482.4 | 474.0 | 443.9 | 424.0 | 420.9 | 400.7 |
| <i>Non-durable goods</i> | 369.1 | 386.7 | 401.9 | 402.3 | 411.1 | 412.1 | 416.3 | 401.0 |
| <i>Services</i> | 146.5 | 157.7 | 155.4 | 158.3 | 161.1 | 163.3 | 168.5 | 160.5 |
| Private final consumption expenditure in the domestic market | 159.7 | 159.8 | 167.7 | 174.1 | 183.2 | 190.3 | 197.3 | 172.1 |
| Plus : Expenditure of residents abroad | 126.4 | 141.4 | 159.2 | 192.1 | 211.5 | 229.8 | 222.5 | 65.5 |
| Less : Expenditure of non-residents in the country | 289.1 | 287.3 | 350.9 | 393.6 | 460.2 | 467.1 | 471.5 | 95.1 |
| Private final consumption expenditure | 147.4 | 148.2 | 152.0 | 156.4 | 161.2 | 168.6 | 175.3 | 173.6 |
| <i>Durable goods</i> | 254.0 | 204.5 | 200.2 | 202.1 | 229.4 | 252.4 | 258.5 | 215.9 |
| <i>Semi-durable goods</i> | 153.2 | 155.9 | 162.4 | 164.7 | 169.3 | 176.1 | 180.9 | 159.3 |
| <i>Non-durable goods</i> | 132.2 | 134.1 | 139.1 | 143.0 | 146.4 | 148.9 | 153.3 | 156.0 |
| <i>Services</i> | 143.3 | 151.4 | 154.3 | 160.2 | 162.8 | 173.9 | 184.1 | 188.4 |

Table 41.2 Growth rate of composition of private final consumption expenditure by type and durability
chain volume measures (reference year = 2002)

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
|--|-------------|--------------|-------------|-------------|-------------|-------------|------------|--------------|
| | Percent | | | | | | | |
| Individual consumption expenditure of households | 3.2 | 0.0 | 5.1 | 3.9 | 5.3 | 3.9 | 3.7 | -12.9 |
| Food and non-alcoholic | -1.0 | 0.9 | 2.2 | 2.2 | 2.3 | 2.2 | 2.5 | 2.3 |
| <i>Non-durable goods</i> | -1.0 | 0.9 | 2.2 | 2.2 | 2.3 | 2.2 | 2.5 | 2.3 |
| Alcoholic beverages, tobacco and narcotic | -2.8 | -2.1 | 1.6 | -3.3 | -0.6 | -1.9 | 2.1 | -4.2 |
| <i>Non-durable goods</i> | -2.8 | -2.1 | 1.6 | -3.3 | -0.6 | -1.9 | 2.1 | -4.2 |
| Clothing and footwear | -3.2 | -2.1 | 1.3 | 2.4 | 2.2 | 1.2 | 1.8 | -18.9 |
| <i>Semi-durable goods</i> | -3.3 | -2.1 | 1.2 | 2.6 | 2.2 | 1.2 | 1.8 | -18.9 |
| <i>Services</i> | 9.3 | -2.9 | 6.9 | -14.5 | 0.4 | -0.9 | -1.3 | -24.0 |
| Housing, water, electricity, gas and other fuels | 1.7 | 3.6 | 4.8 | 4.2 | 4.2 | 3.2 | 4.1 | 3.3 |
| <i>Non-durable goods</i> | 1.6 | 2.5 | 5.9 | 4.2 | 1.5 | 1.6 | 5.9 | 4.8 |
| <i>Services</i> | 1.8 | 4.3 | 4.1 | 4.3 | 5.7 | 4.0 | 3.2 | 2.5 |
| Furnishings, households equipment and routine maintenance of the house | -0.6 | 1.9 | 3.2 | 0.4 | 3.1 | 5.1 | 3.1 | -2.6 |
| <i>Durable goods</i> | 0.5 | 0.2 | 2.0 | -0.3 | 1.9 | 3.5 | 3.4 | -2.3 |
| <i>Semi-durable goods</i> | -1.2 | 3.3 | 3.5 | -0.8 | 3.8 | 7.2 | 3.5 | -2.9 |
| <i>Non-durable goods</i> | 4.1 | 2.7 | 3.7 | 4.8 | 4.2 | 3.7 | 2.7 | -3.5 |
| <i>Services</i> | -5.6 | -2.4 | 3.6 | 1.4 | 0.9 | 0.9 | 1.9 | -0.9 |
| Health | 5.3 | 2.9 | 3.3 | 4.7 | 3.1 | 5.3 | 5.1 | 6.0 |
| <i>Durable goods</i> | 0.3 | -1.2 | -1.7 | 1.8 | -3.4 | 10.5 | 8.6 | -7.4 |
| <i>Non-durable goods</i> | 12.1 | 6.8 | 5.8 | 9.4 | 5.2 | 2.9 | 5.7 | 6.8 |
| <i>Services</i> | 1.4 | 0.4 | 1.6 | 1.5 | 1.7 | 7.0 | 4.5 | 5.8 |
| Transport | 1.0 | -11.3 | 3.0 | 4.4 | 8.3 | 5.9 | 1.2 | -17.4 |
| <i>Durable goods</i> | -3.0 | -32.5 | -9.3 | 1.5 | 19.8 | 13.2 | 0.5 | -19.2 |
| <i>Semi-durable goods</i> | 2.4 | -1.7 | 11.5 | 2.3 | 2.3 | 2.7 | 2.0 | -7.0 |
| <i>Non-durable goods</i> | 3.5 | 2.0 | 10.1 | 7.7 | 2.2 | 1.4 | 1.4 | -2.0 |
| <i>Services</i> | 3.8 | 1.7 | 6.1 | 4.0 | 4.8 | 3.6 | 1.6 | -29.8 |
| Communication | 6.1 | 10.7 | 6.2 | 2.2 | 6.1 | 4.8 | 3.4 | 1.1 |
| <i>Durable goods</i> | 11.6 | 13.0 | 0.6 | 1.1 | 1.6 | 1.3 | 2.5 | -0.5 |
| <i>Services</i> | 5.9 | 10.5 | 6.5 | 2.3 | 6.3 | 5.0 | 3.4 | 1.1 |
| Recreation and culture | 7.2 | -0.4 | 2.1 | 16.3 | 6.7 | 4.8 | 2.6 | -20.3 |
| <i>Durable goods</i> | 0.4 | -1.4 | -17.2 | -2.1 | 7.2 | 0.0 | 7.8 | 3.5 |
| <i>Semi-durable goods</i> | 0.4 | 0.2 | 0.2 | -6.7 | 4.0 | 4.1 | -4.6 | -1.1 |
| <i>Non-durable goods</i> | 11.4 | -2.1 | -6.4 | 3.0 | -0.9 | -1.6 | 1.2 | -1.0 |
| <i>Services</i> | 10.6 | 0.2 | 10.9 | 27.6 | 8.1 | 6.6 | 2.7 | -29.3 |
| Education | 5.8 | 0.1 | 4.3 | 1.5 | 2.8 | 5.1 | 4.4 | -1.3 |
| <i>Services</i> | 5.8 | 0.1 | 4.3 | 1.5 | 2.8 | 5.1 | 4.4 | -1.3 |
| Restaurants and hotels | 11.6 | 2.5 | 12.4 | 5.3 | 10.6 | 4.3 | 7.6 | -47.5 |
| <i>Services</i> | 11.6 | 2.5 | 12.4 | 5.3 | 10.6 | 4.3 | 7.6 | -47.5 |
| Miscellaneous goods and services | 11.0 | 7.0 | 9.7 | 3.5 | 5.6 | 5.7 | 4.0 | -6.4 |
| <i>Durable goods</i> | 12.2 | 4.3 | 22.0 | 1.9 | 10.8 | 10.3 | 4.0 | -23.6 |
| <i>Semi-durable goods</i> | 5.7 | 39.0 | 26.4 | 6.1 | 3.1 | 12.0 | 10.7 | -7.6 |
| <i>Non-durable goods</i> | 6.8 | 8.4 | 9.7 | 2.7 | 7.2 | 2.2 | 7.2 | 7.9 |
| <i>Services</i> | 12.0 | 5.4 | 5.5 | 3.8 | 4.1 | 4.5 | 2.6 | -4.1 |
| Individual consumption expenditure of non-profit institutions serving households (NPISHs) | 5.8 | 7.2 | -0.5 | 1.6 | 1.8 | 1.1 | 2.8 | -4.6 |
| <i>Semi-durable goods</i> | 19.9 | 12.7 | 1.5 | -1.7 | -6.4 | -4.5 | -0.7 | -4.8 |
| <i>Non-durable goods</i> | 3.6 | 4.8 | 3.9 | 0.1 | 2.2 | 0.3 | 1.0 | -3.7 |
| <i>Services</i> | 6.2 | 7.7 | -1.5 | 1.9 | 1.8 | 1.3 | 3.2 | -4.7 |
| Private final consumption expenditure in the domestic market | 3.3 | 0.1 | 4.9 | 3.8 | 5.2 | 3.8 | 3.7 | -12.7 |
| Plus : Expenditure of residents abroad | -0.9 | 11.9 | 12.6 | 20.6 | 10.1 | 8.7 | -3.2 | -70.6 |
| Less : Expenditure of non-residents in the country | 20.6 | -0.6 | 22.1 | 12.2 | 16.9 | 1.5 | 0.9 | -79.8 |
| Private final consumption expenditure | 1.0 | 0.5 | 2.6 | 2.9 | 3.1 | 4.6 | 4.0 | -1.0 |
| <i>Durable goods</i> | 0.3 | -19.5 | -2.1 | 1.0 | 13.5 | 10.0 | 2.4 | -16.5 |
| <i>Semi-durable goods</i> | -1.7 | 1.8 | 4.2 | 1.4 | 2.8 | 4.0 | 2.7 | -11.9 |
| <i>Non-durable goods</i> | 0.6 | 1.4 | 3.7 | 2.8 | 2.3 | 1.7 | 2.9 | 1.8 |
| <i>Services</i> | 2.3 | 5.7 | 2.0 | 3.8 | 1.6 | 6.8 | 5.9 | 2.4 |

**Table 42 Composition of general government final consumption expenditure
at current market prices**

| | (Millions of Baht) | | | | | | | |
|---|--------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
| By type of expenditure | | | | | | | | |
| Compensation of employees | 1,140,263 | 1,228,295 | 1,297,373 | 1,350,895 | 1,402,532 | 1,462,566 | 1,522,541 | 1,582,077 |
| Consumption of fixed capital | 245,156 | 249,347 | 261,017 | 273,413 | 286,657 | 300,641 | 310,087 | 317,522 |
| Purchases from enterprises and abroad | 590,214 | 621,383 | 680,722 | 716,827 | 716,662 | 794,731 | 810,616 | 821,209 |
| Less: Purchases by households and enterprises | 100,156 | 105,072 | 129,347 | 140,669 | 151,516 | 177,879 | 185,797 | 210,230 |
| Social transfers in kind - purchased market production | 237,892 | 244,131 | 243,277 | 260,220 | 270,068 | 268,161 | 274,719 | 279,152 |
| General government final consumption expenditure | 2,113,369 | 2,238,084 | 2,353,042 | 2,460,686 | 2,524,403 | 2,648,220 | 2,732,166 | 2,789,730 |
| By classification of the functions of government (COFOG) | | | | | | | | |
| General public services | 303,314 | 322,281 | 349,286 | 359,128 | 359,444 | 369,985 | 387,007 | 385,881 |
| Defence | 194,480 | 218,360 | 239,571 | 259,016 | 261,422 | 293,445 | 297,046 | 306,025 |
| Public order and safety | 192,827 | 200,720 | 211,882 | 221,432 | 223,976 | 230,987 | 241,917 | 249,378 |
| Economic affairs | 295,570 | 294,757 | 301,524 | 300,753 | 313,662 | 330,934 | 340,245 | 330,074 |
| Environmental protection | 28,143 | 28,925 | 31,598 | 34,291 | 35,203 | 34,434 | 35,151 | 37,753 |
| Housing and community amenities | 72,800 | 67,899 | 70,063 | 74,870 | 78,184 | 83,474 | 86,022 | 81,894 |
| Health | 339,741 | 369,807 | 383,705 | 409,936 | 438,968 | 466,348 | 490,986 | 539,482 |
| Recreation, culture and religion | 38,127 | 37,452 | 37,673 | 39,906 | 41,032 | 42,952 | 43,463 | 43,734 |
| Education | 619,739 | 665,947 | 695,012 | 727,979 | 743,047 | 763,298 | 780,220 | 787,295 |
| Social protection | 28,628 | 31,936 | 32,728 | 33,375 | 29,465 | 32,363 | 30,109 | 28,214 |
| General government final consumption expenditure | 2,113,369 | 2,238,084 | 2,353,042 | 2,460,686 | 2,524,403 | 2,648,220 | 2,732,166 | 2,789,730 |
| By type of services | | | | | | | | |
| Collective consumption expenditure | 1,100,563 | 1,141,173 | 1,204,158 | 1,249,398 | 1,269,543 | 1,344,055 | 1,387,644 | 1,390,340 |
| Individual consumption expenditure | 1,012,806 | 1,096,911 | 1,148,884 | 1,211,288 | 1,254,860 | 1,304,165 | 1,344,522 | 1,399,390 |
| General government final consumption expenditure | 2,113,369 | 2,238,084 | 2,353,042 | 2,460,686 | 2,524,403 | 2,648,220 | 2,732,166 | 2,789,730 |

**Table 43 Composition of general government final consumption expenditure
chain volume measures (reference year = 2002)**

| | (Millions of Baht) | | | | | | | |
|---|--------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| | 2013 | 2014 | 2015 | 2016r | 2017r | 2018r | 2019r | 2020p |
| By type of expenditure | | | | | | | | |
| Compensation of employees | 686,105 | 708,807 | 715,799 | 718,298 | 721,366 | 730,680 | 742,670 | 757,059 |
| Consumption of fixed capital | 169,502 | 168,101 | 170,249 | 172,031 | 177,500 | 183,700 | 186,568 | 188,800 |
| Purchases from enterprises and abroad | 478,588 | 499,066 | 556,270 | 588,705 | 582,674 | 637,395 | 651,301 | 673,285 |
| Less: Purchases by households and enterprises | 82,571 | 85,908 | 107,878 | 118,027 | 125,813 | 145,602 | 152,396 | 176,024 |
| Social transfers in kind - purchased market production | 196,646 | 198,656 | 195,931 | 208,932 | 215,823 | 212,526 | 215,744 | 220,311 |
| General government final consumption expenditure | 1,417,379 | 1,457,177 | 1,493,837 | 1,526,168 | 1,530,150 | 1,571,045 | 1,595,838 | 1,617,788 |
| By classification of the functions of government (COFOG) | | | | | | | | |
| General public services | 212,911 | 220,622 | 234,841 | 235,823 | 230,097 | 231,536 | 238,562 | 235,976 |
| Defence | 129,176 | 140,887 | 151,070 | 159,047 | 156,081 | 170,854 | 170,328 | 174,595 |
| Public order and safety | 133,494 | 135,064 | 138,798 | 140,702 | 138,144 | 138,695 | 142,591 | 145,325 |
| Economic affairs | 203,022 | 197,605 | 198,511 | 192,987 | 197,067 | 203,825 | 206,428 | 198,869 |
| Environmental protection | 19,130 | 19,209 | 20,682 | 21,918 | 22,018 | 21,097 | 21,267 | 22,767 |
| Housing and community amenities | 50,455 | 45,974 | 46,553 | 48,530 | 49,734 | 52,138 | 53,073 | 50,279 |
| Health | 246,432 | 261,793 | 266,116 | 278,809 | 292,727 | 304,930 | 316,281 | 346,434 |
| Recreation, culture and religion | 28,934 | 27,954 | 27,996 | 29,310 | 29,658 | 30,531 | 30,714 | 31,074 |
| Education | 375,331 | 387,527 | 389,331 | 398,935 | 398,523 | 401,102 | 403,191 | 402,575 |
| Social protection | 21,579 | 23,591 | 23,971 | 24,134 | 20,834 | 22,394 | 20,583 | 19,269 |
| General government final consumption expenditure | 1,417,379 | 1,457,177 | 1,493,837 | 1,526,168 | 1,530,150 | 1,571,045 | 1,595,838 | 1,617,788 |
| By type of services | | | | | | | | |
| Collective consumption expenditure | 804,280 | 817,333 | 850,271 | 864,119 | 861,053 | 895,288 | 915,117 | 915,451 |
| Individual consumption expenditure | 613,814 | 638,952 | 644,962 | 662,542 | 668,478 | 677,529 | 683,776 | 702,631 |
| General government final consumption expenditure | 1,417,379 | 1,457,177 | 1,493,837 | 1,526,168 | 1,530,150 | 1,571,045 | 1,595,838 | 1,617,788 |

Note : Chain volume series are not additive. The sum of the components will thus not be equal to the shown totals.

Table 43.1 Composition of general government final consumption expenditure
chain indices (reference year = 2002)

| | 2013 | 2014 | 2015 | 2016r | 2017r | 2018r | 2019r | 2020p |
|---|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| By type of expenditure | | | | | | | | |
| Compensation of employees | 151.7 | 156.7 | 158.2 | 158.8 | 159.5 | 161.5 | 164.2 | 167.4 |
| Consumption of fixed capital | 147.7 | 146.5 | 148.3 | 149.9 | 154.7 | 160.1 | 162.6 | 164.5 |
| Purchases from enterprises and abroad | 263.4 | 274.7 | 306.2 | 324.0 | 320.7 | 350.8 | 358.5 | 370.6 |
| Less: Purchases by households and enterprises | 388.0 | 403.6 | 506.9 | 554.6 | 591.1 | 684.1 | 716.0 | 827.1 |
| Social transfers in kind - purchased market production | 605.4 | 611.6 | 603.2 | 643.2 | 664.4 | 654.2 | 664.2 | 678.2 |
| General government final consumption expenditure | 186.5 | 191.7 | 196.6 | 200.8 | 201.3 | 206.7 | 210.0 | 212.9 |
| By classification of the functions of government (COFOG) | | | | | | | | |
| General public services | 189.6 | 196.4 | 209.1 | 210.0 | 204.9 | 206.1 | 212.4 | 210.1 |
| Defence | 138.0 | 150.6 | 161.4 | 170.0 | 166.8 | 182.6 | 182.0 | 186.6 |
| Public order and safety | 182.3 | 184.5 | 189.6 | 192.2 | 188.7 | 189.5 | 194.8 | 198.5 |
| Economic affairs | 169.3 | 164.8 | 165.6 | 161.0 | 164.4 | 170.0 | 172.2 | 165.9 |
| Environmental protection | 352.6 | 354.0 | 381.2 | 403.9 | 405.8 | 388.8 | 391.9 | 419.6 |
| Housing and community amenities | 250.2 | 228.0 | 230.9 | 240.7 | 246.7 | 258.6 | 263.2 | 249.4 |
| Health | 256.9 | 272.9 | 277.4 | 290.6 | 305.1 | 317.8 | 329.7 | 361.1 |
| Recreation, culture and religion | 176.9 | 170.9 | 171.2 | 179.2 | 181.3 | 186.7 | 187.8 | 190.0 |
| Education | 172.9 | 178.5 | 179.3 | 183.7 | 183.6 | 184.7 | 185.7 | 185.4 |
| Social protection | 360.2 | 393.8 | 400.1 | 402.8 | 347.8 | 373.8 | 343.6 | 321.6 |
| General government final consumption expenditure | 186.5 | 191.7 | 196.6 | 200.8 | 201.3 | 206.7 | 210.0 | 212.9 |
| By type of services | | | | | | | | |
| Collective consumption expenditure | 184.1 | 187.1 | 194.6 | 197.8 | 197.1 | 205.0 | 209.5 | 209.6 |
| Individual consumption expenditure | 189.9 | 197.7 | 199.6 | 205.0 | 206.9 | 209.7 | 211.6 | 217.4 |
| General government final consumption expenditure | 186.5 | 191.7 | 196.6 | 200.8 | 201.3 | 206.7 | 210.0 | 212.9 |

Table 43.2 Growth rate of composition of general government final consumption expenditure
chain volume measures (reference year = 2002)

| | 2013 | 2014 | 2015 | 2016r | 2017r | 2018r | 2019r | 2020p | Percent |
|---|------------|------------|------------|------------|------------|------------|------------|------------|---------|
| By type of expenditure | | | | | | | | | |
| Compensation of employees | 0.7 | 3.3 | 1.0 | 0.3 | 0.4 | 1.3 | 1.6 | 1.9 | |
| Consumption of fixed capital | 3.1 | -0.8 | 1.3 | 1.0 | 3.2 | 3.5 | 1.6 | 1.2 | |
| Purchases from enterprises and abroad | 9.0 | 4.3 | 11.5 | 5.8 | -1.0 | 9.4 | 2.2 | 3.4 | |
| Less: Purchases by households and enterprises | 27.5 | 4.0 | 25.6 | 9.4 | 6.6 | 15.7 | 4.7 | 15.5 | |
| Social transfers in kind - purchased market production | -4.1 | 1.0 | -1.4 | 6.6 | 3.3 | -1.5 | 1.5 | 2.1 | |
| General government final consumption expenditure | 1.5 | 2.8 | 2.5 | 2.2 | 0.3 | 2.7 | 1.6 | 1.4 | |
| By classification of the functions of government (COFOG) | | | | | | | | | |
| General public services | 7.1 | 3.6 | 6.4 | 0.4 | -2.4 | 0.6 | 3.0 | -1.1 | |
| Defence | 2.1 | 9.1 | 7.2 | 5.3 | -1.9 | 9.5 | -0.3 | 2.5 | |
| Public order and safety | -2.4 | 1.2 | 2.8 | 1.4 | -1.8 | 0.4 | 2.8 | 1.9 | |
| Economic affairs | 2.9 | -2.7 | 0.5 | -2.8 | 2.1 | 3.4 | 1.3 | -3.7 | |
| Environmental protection | -3.5 | 0.4 | 7.7 | 6.0 | 0.5 | -4.2 | 0.8 | 7.1 | |
| Housing and community amenities | 10.9 | -8.9 | 1.3 | 4.2 | 2.5 | 4.8 | 1.8 | -5.3 | |
| Health | 0.9 | 6.2 | 1.7 | 4.8 | 5.0 | 4.2 | 3.7 | 9.5 | |
| Recreation, culture and religion | -3.1 | -3.4 | 0.2 | 4.7 | 1.2 | 2.9 | 0.6 | 1.2 | |
| Education | 0.0 | 3.2 | 0.5 | 2.5 | -0.1 | 0.6 | 0.5 | -0.2 | |
| Social protection | -10.1 | 9.3 | 1.6 | 0.7 | -13.7 | 7.5 | -8.1 | -6.4 | |
| General government final consumption expenditure | 1.5 | 2.8 | 2.5 | 2.2 | 0.3 | 2.7 | 1.6 | 1.4 | |
| By type of services | | | | | | | | | |
| Collective consumption expenditure | 3.3 | 1.6 | 4.0 | 1.6 | -0.4 | 4.0 | 2.2 | 0.0 | |
| Individual consumption expenditure | -0.3 | 4.1 | 0.9 | 2.7 | 0.9 | 1.4 | 0.9 | 2.8 | |
| General government final consumption expenditure | 1.5 | 2.8 | 2.5 | 2.2 | 0.3 | 2.7 | 1.6 | 1.4 | |

**Table 44 Gross capital formation
at current market prices**

(Millions of Baht)

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
|--------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Construction | 1,052,167 | 1,038,061 | 1,159,732 | 1,223,405 | 1,212,414 | 1,268,279 | 1,297,282 | 1,311,503 |
| <i>Private</i> | 555,072 | 543,891 | 529,357 | 524,010 | 526,729 | 561,595 | 571,075 | 555,311 |
| <i>Public</i> | 497,095 | 494,170 | 630,375 | 699,395 | 685,685 | 706,684 | 726,207 | 756,192 |
| Equipment | 2,226,159 | 2,224,717 | 2,211,337 | 2,236,496 | 2,366,763 | 2,462,590 | 2,514,891 | 2,323,079 |
| <i>Private</i> | 1,986,164 | 2,028,293 | 1,976,806 | 2,005,331 | 2,126,771 | 2,211,535 | 2,278,324 | 2,072,808 |
| <i>Public</i> | 239,995 | 196,424 | 234,531 | 231,165 | 239,992 | 251,055 | 236,567 | 250,271 |
| Gross fixed capital formation | 3,278,326 | 3,262,778 | 3,371,069 | 3,459,901 | 3,579,177 | 3,730,869 | 3,812,173 | 3,634,582 |
| <i>Private</i> | 2,541,236 | 2,572,184 | 2,506,163 | 2,529,341 | 2,653,500 | 2,773,129 | 2,849,400 | 2,628,119 |
| <i>Public</i> | 737,090 | 690,594 | 864,906 | 930,560 | 925,677 | 957,740 | 962,773 | 1,006,463 |
| Change in inventories | 267,804 | -98,217 | -298,624 | -380,535 | -26,962 | 398,424 | 209,192 | 69,459 |
| Gross capital formation | 3,546,130 | 3,164,561 | 3,072,445 | 3,079,366 | 3,552,215 | 4,129,293 | 4,021,365 | 3,704,041 |

**Table 45 Gross capital formation
chain volume measures (reference year = 2002)**

(Millions of Baht)

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
|--------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Construction | 691,867 | 677,748 | 784,133 | 846,807 | 829,249 | 855,607 | 868,759 | 884,824 |
| <i>Private</i> | 372,965 | 360,653 | 361,713 | 365,590 | 362,390 | 380,325 | 382,537 | 374,709 |
| <i>Public</i> | 318,683 | 316,664 | 420,053 | 478,040 | 463,837 | 472,272 | 483,117 | 506,850 |
| Equipment | 1,608,039 | 1,571,194 | 1,556,729 | 1,559,793 | 1,621,990 | 1,692,106 | 1,729,418 | 1,586,792 |
| <i>Private</i> | 1,440,338 | 1,436,150 | 1,397,005 | 1,402,885 | 1,459,315 | 1,520,199 | 1,568,029 | 1,416,123 |
| <i>Public</i> | 168,301 | 136,581 | 160,781 | 158,061 | 163,885 | 173,159 | 162,621 | 171,773 |
| Gross fixed capital formation | 2,303,441 | 2,252,515 | 2,350,865 | 2,418,543 | 2,463,149 | 2,560,080 | 2,610,718 | 2,485,109 |
| <i>Private</i> | 1,813,138 | 1,795,944 | 1,758,459 | 1,768,279 | 1,821,464 | 1,900,267 | 1,950,186 | 1,791,124 |
| <i>Public</i> | 487,714 | 455,702 | 585,133 | 641,321 | 632,869 | 650,678 | 651,321 | 684,462 |
| Change in inventories | 183,078 | -63,572 | -111,915 | -340,739 | -68,590 | 258,420 | 117,006 | 117,469 |
| Gross capital formation | 2,539,573 | 2,226,085 | 2,273,757 | 2,188,290 | 2,428,351 | 2,823,330 | 2,727,940 | 2,588,375 |

Note : Chain volume series are not additive. The sum of the components will thus not be equal to the shown totals.

Table 45.1 Gross capital formation
chain indices (reference year = 2002)

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
|--------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Construction | 145.9 | 142.9 | 165.3 | 178.6 | 174.9 | 180.4 | 183.2 | 186.6 |
| <i>Private</i> | 187.6 | 181.4 | 182.0 | 183.9 | 182.3 | 191.3 | 192.5 | 188.5 |
| <i>Public</i> | 115.7 | 114.9 | 152.5 | 173.5 | 168.4 | 171.4 | 175.4 | 184.0 |
| Equipment | 203.6 | 198.9 | 197.1 | 197.5 | 205.3 | 214.2 | 218.9 | 200.9 |
| <i>Private</i> | 213.3 | 212.7 | 206.9 | 207.8 | 216.1 | 225.1 | 232.2 | 209.7 |
| <i>Public</i> | 146.7 | 119.0 | 140.1 | 137.8 | 142.8 | 150.9 | 141.7 | 149.7 |
| Gross fixed capital formation | 182.2 | 178.2 | 186.0 | 191.3 | 194.8 | 202.5 | 206.5 | 196.6 |
| <i>Private</i> | 207.5 | 205.5 | 201.2 | 202.3 | 208.4 | 217.4 | 223.1 | 204.9 |
| <i>Public</i> | 125.0 | 116.8 | 149.9 | 164.3 | 162.2 | 166.7 | 166.9 | 175.4 |
| Change in inventories | | | | | | | | |
| Gross capital formation | 193.5 | 169.6 | 173.3 | 166.8 | 185.1 | 215.2 | 207.9 | 197.2 |

Table 45.2 Growth rate of gross capital formation
chain volume measures (reference year = 2002)

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
|--------------------------------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | Percent | | | | | | | |
| Construction | 0.0 | -2.0 | 15.7 | 8.0 | -2.1 | 3.2 | 1.5 | 1.8 |
| <i>Private</i> | 4.1 | -3.3 | 0.3 | 1.1 | -0.9 | 4.9 | 0.6 | -2.0 |
| <i>Public</i> | -4.1 | -0.6 | 32.6 | 13.8 | -3.0 | 1.8 | 2.3 | 4.9 |
| Equipment | -1.5 | -2.3 | -0.9 | 0.2 | 4.0 | 4.3 | 2.2 | -8.2 |
| <i>Private</i> | -2.9 | -0.3 | -2.7 | 0.4 | 4.0 | 4.2 | 3.1 | -9.7 |
| <i>Public</i> | 12.4 | -18.8 | 17.7 | -1.7 | 3.7 | 5.7 | -6.1 | 5.6 |
| Gross fixed capital formation | -1.0 | -2.2 | 4.4 | 2.9 | 1.8 | 3.9 | 2.0 | -4.8 |
| <i>Private</i> | -1.5 | -0.9 | -2.1 | 0.6 | 3.0 | 4.3 | 2.6 | -8.2 |
| <i>Public</i> | 0.8 | -6.6 | 28.4 | 9.6 | -1.3 | 2.8 | 0.1 | 5.1 |
| Change in inventories | | | | | | | | |
| Gross capital formation | 3.6 | -12.3 | 2.1 | -3.8 | 11.0 | 16.3 | -3.4 | -5.1 |

**Table 46 Gross fixed capital formation by type of capital goods
at current market prices**

| | (Millions of Baht) | | | | | | | |
|--------------------------------------|--------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
| Construction | 1,052,167 | 1,038,061 | 1,159,732 | 1,223,405 | 1,212,414 | 1,268,279 | 1,297,282 | 1,311,503 |
| Private | 555,072 | 543,891 | 529,357 | 524,010 | 526,729 | 561,595 | 571,075 | 555,311 |
| Dwellings | 306,479 | 306,604 | 295,710 | 293,168 | 297,375 | 313,067 | 309,458 | 286,823 |
| Non-dwelling construction | 173,431 | 161,304 | 158,754 | 147,773 | 150,369 | 154,736 | 165,039 | 156,228 |
| Other construction | 56,850 | 58,478 | 57,532 | 65,225 | 61,007 | 74,370 | 77,657 | 95,683 |
| Costs of ownership transfer | 18,312 | 17,505 | 17,361 | 17,844 | 17,978 | 19,422 | 18,921 | 16,577 |
| Public | 497,095 | 494,170 | 630,375 | 699,395 | 685,685 | 706,684 | 726,207 | 756,192 |
| Dwellings | 22,784 | 22,108 | 18,863 | 16,185 | 15,368 | 15,166 | 17,374 | 12,066 |
| Non-dwelling construction | 104,906 | 100,818 | 149,717 | 128,549 | 133,582 | 134,742 | 139,027 | 123,759 |
| Other construction | 369,405 | 371,245 | 461,795 | 554,660 | 536,735 | 556,776 | 569,806 | 620,367 |
| Machinery and other equipment | 2,226,159 | 2,224,717 | 2,211,337 | 2,236,496 | 2,366,763 | 2,462,590 | 2,514,891 | 2,323,079 |
| Transport equipment | 1,037,788 | 919,411 | 881,046 | 837,349 | 937,170 | 1,004,674 | 1,026,665 | 904,737 |
| Road motor equipment | 808,844 | 771,639 | 757,286 | 731,921 | 799,668 | 867,410 | 890,029 | 790,312 |
| Other vehicles | 228,944 | 147,772 | 123,760 | 105,428 | 137,502 | 137,264 | 136,636 | 114,425 |
| Machinery and equipment | 1,188,371 | 1,305,306 | 1,330,291 | 1,399,147 | 1,429,593 | 1,457,916 | 1,488,226 | 1,418,342 |
| Industrial machinery | 719,089 | 739,746 | 707,781 | 757,497 | 760,681 | 778,924 | 792,589 | 745,981 |
| Office equipment | 469,282 | 565,560 | 622,510 | 641,650 | 668,912 | 678,992 | 695,637 | 672,361 |
| Gross fixed capital formation | 3,278,326 | 3,262,778 | 3,371,069 | 3,459,901 | 3,579,177 | 3,730,869 | 3,812,173 | 3,634,582 |

**Table 47 Gross fixed capital formation by type of capital goods
chain volume measures (reference year = 2002)**

| | (Millions of Baht) | | | | | | | |
|--------------------------------------|--------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| | 2013 | 2014 | 2015 | 2016 | 2017r | 2018r | 2019r | 2020p |
| Construction | 691,867 | 677,748 | 784,133 | 846,807 | 829,249 | 855,607 | 868,759 | 884,824 |
| Private | 372,965 | 360,653 | 361,713 | 365,590 | 362,390 | 380,325 | 382,537 | 374,709 |
| Dwellings | 203,295 | 200,327 | 198,656 | 203,129 | 203,346 | 210,722 | 204,552 | 190,817 |
| Non-dwelling construction | 116,299 | 106,616 | 108,128 | 103,664 | 104,006 | 105,438 | 108,762 | 103,875 |
| Other construction | 38,061 | 39,022 | 40,091 | 43,317 | 39,830 | 47,695 | 52,784 | 65,541 |
| Costs of ownership transfer | 14,201 | 13,547 | 13,753 | 14,497 | 14,384 | 15,315 | 15,015 | 13,222 |
| Public | 318,683 | 316,664 | 420,053 | 478,040 | 463,837 | 472,272 | 483,117 | 506,850 |
| Dwellings | 15,175 | 14,685 | 12,456 | 10,950 | 10,376 | 10,083 | 11,362 | 8,341 |
| Non-dwelling construction | 69,171 | 65,448 | 96,234 | 85,783 | 88,792 | 88,713 | 88,849 | 83,484 |
| Other construction | 233,873 | 235,920 | 310,447 | 381,412 | 364,606 | 373,452 | 382,908 | 415,628 |
| Machinery and other equipment | 1,608,039 | 1,571,194 | 1,556,729 | 1,559,793 | 1,621,990 | 1,692,106 | 1,729,418 | 1,586,792 |
| Transport equipment | 791,503 | 720,035 | 718,438 | 666,776 | 754,905 | 810,671 | 824,409 | 719,482 |
| Road motor equipment | 639,905 | 594,293 | 597,226 | 565,417 | 630,559 | 677,426 | 696,694 | 612,881 |
| Other vehicles | 153,953 | 129,709 | 124,576 | 101,403 | 126,746 | 135,774 | 128,211 | 106,069 |
| Machinery and equipment | 832,717 | 862,636 | 850,448 | 893,733 | 880,003 | 900,367 | 923,388 | 875,777 |
| Industrial machinery | 505,356 | 498,534 | 488,658 | 499,358 | 479,014 | 491,664 | 509,460 | 476,597 |
| Office equipment | 326,296 | 362,733 | 360,303 | 390,521 | 396,221 | 403,917 | 409,320 | 394,251 |
| Gross fixed capital formation | 2,303,441 | 2,252,515 | 2,350,865 | 2,418,543 | 2,463,149 | 2,560,080 | 2,610,718 | 2,485,109 |

Note : Chain volume series are not additive. The sum of the components will thus not be equal to the shown totals.

Table 47.1 Gross fixed capital formation by type of capital goods
chain indices (reference year = 2002)

| | 2013 | 2014 | 2015 | 2016 | 2017r | 2018r | 2019r | 2020p |
|--------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Construction | 145.9 | 142.9 | 165.3 | 178.6 | 174.8 | 180.4 | 183.2 | 186.6 |
| Private | 187.6 | 181.4 | 182.0 | 183.9 | 182.3 | 191.3 | 192.5 | 188.5 |
| <i>Dwellings</i> | 195.4 | 192.5 | 190.9 | 195.2 | 195.4 | 202.5 | 196.6 | 183.4 |
| <i>Non-dwelling construction</i> | 181.1 | 166.1 | 168.4 | 161.5 | 162.0 | 164.2 | 169.4 | 161.8 |
| <i>Other construction</i> | 167.4 | 171.7 | 176.4 | 190.5 | 175.2 | 209.8 | 232.2 | 288.3 |
| <i>Costs of ownership transfer</i> | 182.9 | 174.4 | 177.1 | 186.7 | 185.2 | 197.2 | 193.3 | 170.3 |
| Public | 115.7 | 114.9 | 152.5 | 173.5 | 168.4 | 171.4 | 175.4 | 184.0 |
| <i>Dwellings</i> | 187.8 | 181.7 | 154.2 | 135.5 | 128.4 | 124.8 | 140.6 | 103.2 |
| <i>Non-dwelling construction</i> | 188.2 | 178.1 | 261.9 | 233.4 | 241.6 | 241.4 | 241.8 | 227.2 |
| <i>Other construction</i> | 101.4 | 102.3 | 134.6 | 165.4 | 158.1 | 161.9 | 166.0 | 180.2 |
| Machinery and other equipment | 203.6 | 198.9 | 197.1 | 197.5 | 205.3 | 214.2 | 218.9 | 200.9 |
| Transport equipment | 349.6 | 318.0 | 317.3 | 294.5 | 333.4 | 358.1 | 364.1 | 317.8 |
| <i>Road motor equipment</i> | 360.6 | 334.9 | 336.6 | 318.7 | 355.4 | 381.8 | 392.6 | 345.4 |
| <i>Other vehicles</i> | 314.4 | 264.9 | 254.4 | 207.1 | 258.9 | 277.3 | 261.9 | 216.6 |
| Machinery and equipment | 147.8 | 153.1 | 150.9 | 158.6 | 156.2 | 159.8 | 163.9 | 155.4 |
| <i>Industrial machinery</i> | 155.9 | 153.8 | 150.8 | 154.1 | 147.8 | 151.7 | 157.2 | 147.1 |
| <i>Office equipment</i> | 136.3 | 151.5 | 150.5 | 163.1 | 165.4 | 168.7 | 170.9 | 164.6 |
| Gross fixed capital formation | 182.2 | 178.2 | 186.0 | 191.3 | 194.8 | 202.5 | 206.5 | 196.6 |

Table 47.2 Growth rate of gross fixed capital formation by type of capital goods
chain volume measures (reference year = 2002)

| | 2013 | 2014 | 2015 | 2016 | 2017r | 2018r | 2019r | Percent 2020p |
|--------------------------------------|-------------|-------------|-------------|-------------|-------------|------------|------------|------------------|
| Construction | 0.0 | -2.0 | 15.7 | 8.0 | -2.1 | 3.2 | 1.5 | 1.8 |
| Private | 4.1 | -3.3 | 0.3 | 1.1 | -0.9 | 4.9 | 0.6 | -2.0 |
| <i>Dwellings</i> | 5.5 | -1.5 | -0.8 | 2.3 | 0.1 | 3.6 | -2.9 | -6.7 |
| <i>Non-dwelling construction</i> | 1.2 | -8.3 | 1.4 | -4.1 | 0.3 | 1.4 | 3.2 | -4.5 |
| <i>Other construction</i> | 0.9 | 2.5 | 2.7 | 8.0 | -8.0 | 19.7 | 10.7 | 24.2 |
| <i>Costs of ownership transfer</i> | 21.5 | -4.6 | 1.5 | 5.4 | -0.8 | 6.5 | -2.0 | -11.9 |
| Public | -4.1 | -0.6 | 32.6 | 13.8 | -3.0 | 1.8 | 2.3 | 4.9 |
| <i>Dwellings</i> | -44.2 | -3.2 | -15.2 | -12.1 | -5.2 | -2.8 | 12.7 | -26.6 |
| <i>Non-dwelling construction</i> | 14.1 | -5.4 | 47.0 | -10.9 | 3.5 | -0.1 | 0.2 | -6.0 |
| <i>Other construction</i> | -4.2 | 0.9 | 31.6 | 22.9 | -4.4 | 2.4 | 2.5 | 8.5 |
| Machinery and other equipment | -1.5 | -2.3 | -0.9 | 0.2 | 4.0 | 4.3 | 2.2 | -8.2 |
| Transport equipment | 0.2 | -9.0 | -0.2 | -7.2 | 13.2 | 7.4 | 1.7 | -12.7 |
| <i>Road motor equipment</i> | 0.3 | -7.1 | 0.5 | -5.3 | 11.5 | 7.4 | 2.8 | -12.0 |
| <i>Other vehicles</i> | 0.1 | -15.7 | -4.0 | -18.6 | 25.0 | 7.1 | -5.6 | -17.3 |
| Machinery and equipment | -2.9 | 3.6 | -1.4 | 5.1 | -1.5 | 2.3 | 2.6 | -5.2 |
| <i>Industrial machinery</i> | -4.8 | -1.3 | -2.0 | 2.2 | -4.1 | 2.6 | 3.6 | -6.5 |
| <i>Office equipment</i> | 0.3 | 11.2 | -0.7 | 8.4 | 1.5 | 1.9 | 1.3 | -3.7 |
| Gross fixed capital formation | -1.0 | -2.2 | 4.4 | 2.9 | 1.8 | 3.9 | 2.0 | -4.8 |

**Table 48 Gross fixed capital formation by type of assets
at current market prices**

(Millions of Baht)

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
|---------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Tangible fixed assets | 3,182,925 | 3,162,777 | 3,270,124 | 3,335,363 | 3,442,805 | 3,586,677 | 3,677,715 | 3,502,308 |
| <i>Dwellings</i> | 329,263 | 328,712 | 314,573 | 309,353 | 312,743 | 328,233 | 326,832 | 298,889 |
| <i>Other buildings and structures</i> | 668,291 | 654,660 | 800,134 | 821,420 | 811,325 | 843,312 | 879,282 | 932,907 |
| <i>Machinery and equipment</i> | 2,180,542 | 2,174,941 | 2,150,867 | 2,198,316 | 2,311,151 | 2,404,830 | 2,459,967 | 2,260,765 |
| <i>Cultivated assets</i> | 4,829 | 4,465 | 4,550 | 6,274 | 7,586 | 10,302 | 11,634 | 9,747 |
| Intangible fixed assets | 77,089 | 82,497 | 83,585 | 106,694 | 118,393 | 124,770 | 115,537 | 115,697 |
| <i>Mineral exploration</i> | 35,151 | 35,985 | 34,108 | 63,234 | 68,805 | 75,725 | 70,666 | 60,364 |
| <i>Computer software</i> | 41,938 | 46,512 | 49,477 | 43,460 | 49,588 | 49,045 | 44,871 | 55,333 |
| Costs of ownership transfer | 18,312 | 17,505 | 17,361 | 17,844 | 17,978 | 19,422 | 18,921 | 16,577 |
| Gross fixed capital formation | 3,278,326 | 3,262,778 | 3,371,069 | 3,459,901 | 3,579,177 | 3,730,869 | 3,812,173 | 3,634,582 |

**Table 49 Gross fixed capital formation by type of assets
chain volume measures (reference year = 2002)**

(Millions of Baht)

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
|---------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Tangible fixed assets | 2,232,179 | 2,175,996 | 2,272,657 | 2,326,421 | 2,366,570 | 2,461,180 | 2,509,468 | 2,380,906 |
| <i>Dwellings</i> | 218,253 | 214,799 | 210,935 | 213,871 | 213,501 | 220,569 | 215,702 | 198,939 |
| <i>Other buildings and structures</i> | 463,032 | 455,846 | 609,222 | 631,292 | 617,836 | 636,865 | 652,038 | 692,825 |
| <i>Machinery and equipment</i> | 1,532,241 | 1,485,895 | 1,434,959 | 1,463,364 | 1,512,762 | 1,578,654 | 1,615,692 | 1,473,819 |
| <i>Cultivated assets</i> | 16,513 | 21,385 | 24,711 | 32,424 | 39,647 | 48,145 | 53,281 | 44,094 |
| Intangible fixed assets | 58,632 | 65,078 | 66,416 | 81,313 | 86,183 | 87,676 | 90,351 | 96,026 |
| <i>Mineral exploration</i> | 28,365 | 28,683 | 27,669 | 50,015 | 50,653 | 52,354 | 57,376 | 53,933 |
| <i>Computer software</i> | 31,404 | 37,455 | 39,845 | 32,759 | 36,967 | 36,773 | 34,181 | 42,939 |
| Costs of ownership transfer | 14,201 | 13,547 | 13,753 | 14,497 | 14,384 | 15,315 | 15,015 | 13,222 |
| Gross fixed capital formation | 2,303,441 | 2,252,515 | 2,350,865 | 2,418,543 | 2,463,149 | 2,560,080 | 2,610,718 | 2,485,109 |

Note : Chain volume series are not additive. The sum of the components will thus not be equal to the shown totals.

**Table 49.1 Gross fixed capital formation by type of assets
chain indices (reference year = 2002)**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
|---------------------------------------|--------------|--------------|--------------|--------------|----------------|----------------|----------------|----------------|
| Tangible fixed assets | 178.8 | 174.3 | 182.1 | 186.4 | 189.6 | 197.2 | 201.1 | 190.8 |
| <i>Dwellings</i> | 194.6 | 191.5 | 188.1 | 190.7 | 190.4 | 196.7 | 192.3 | 177.4 |
| <i>Other buildings and structures</i> | 132.0 | 130.0 | 173.7 | 180.0 | 176.1 | 181.6 | 185.9 | 197.5 |
| <i>Machinery and equipment</i> | 196.7 | 190.8 | 184.2 | 187.9 | 194.2 | 202.7 | 207.4 | 189.2 |
| <i>Cultivated assets</i> | 262.3 | 339.7 | 392.5 | 515.0 | 629.7 | 764.7 | 846.3 | 700.4 |
| Intangible fixed assets | 701.4 | 778.5 | 794.5 | 972.8 | 1,031.0 | 1,048.9 | 1,080.9 | 1,148.8 |
| <i>Mineral exploration</i> | 3,409.2 | 3,447.5 | 3,325.6 | 6,011.4 | 6,088.1 | 6,292.5 | 6,896.2 | 6,482.3 |
| <i>Computer software</i> | 417.2 | 497.6 | 529.4 | 435.2 | 491.1 | 488.5 | 454.1 | 570.5 |
| Costs of ownership transfer | 182.9 | 174.5 | 177.1 | 186.7 | 185.3 | 197.2 | 193.4 | 170.3 |
| Gross fixed capital formation | 182.2 | 178.2 | 186.0 | 191.3 | 194.8 | 202.5 | 206.5 | 196.6 |

**Table 49.2 Growth rate of gross fixed capital formation by type of assets
chain volume measures (reference year = 2002)**

Percent

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
|---------------------------------------|-------------|-------------|------------|-------------|-------------|------------|-------------|--------------|
| Tangible fixed assets | -1.5 | -2.5 | 4.4 | 2.4 | 1.7 | 4.0 | 2.0 | -5.1 |
| <i>Dwellings</i> | -0.8 | -1.6 | -1.8 | 1.4 | -0.2 | 3.3 | -2.2 | -7.8 |
| <i>Other buildings and structures</i> | 6.9 | -1.6 | 33.6 | 3.6 | -2.1 | 3.1 | 2.4 | 6.3 |
| <i>Machinery and equipment</i> | -4.4 | -3.0 | -3.4 | 2.0 | 3.4 | 4.4 | 2.3 | -8.8 |
| <i>Cultivated assets</i> | 286.9 | 29.5 | 15.6 | 31.2 | 22.3 | 21.4 | 10.7 | -17.2 |
| Intangible fixed assets | 15.3 | 11.0 | 2.1 | 22.4 | 6.0 | 1.7 | 3.1 | 6.3 |
| <i>Mineral exploration</i> | 8.9 | 1.1 | -3.5 | 80.8 | 1.3 | 3.4 | 9.6 | -6.0 |
| <i>Computer software</i> | 21.3 | 19.3 | 6.4 | -17.8 | 12.8 | -0.5 | -7.0 | 25.6 |
| Costs of ownership transfer | 21.5 | -4.6 | 1.5 | 5.4 | -0.8 | 6.5 | -2.0 | -11.9 |
| Gross fixed capital formation | -1.0 | -2.2 | 4.4 | 2.9 | 1.8 | 3.9 | 2.0 | -4.8 |

National Income

**Table 50 Distribution of the national income
at current market prices**

(Millions of Baht)

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
|---|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Compensation of employees | 4,041,907 | 4,323,540 | 4,554,169 | 4,711,391 | 4,855,252 | 5,044,149 | 5,165,112 | 4,992,748 |
| Wages and salaries | 3,600,119 | 3,839,449 | 4,026,068 | 4,141,598 | 4,252,535 | 4,409,000 | 4,475,360 | 4,310,647 |
| Employers' social contributions | 441,788 | 484,091 | 528,101 | 569,793 | 602,717 | 635,149 | 689,752 | 682,101 |
| <i>Employers' actual social contributions</i> | 136,318 | 158,414 | 169,913 | 176,570 | 182,437 | 194,909 | 203,700 | 186,057 |
| <i>Employers' imputed social contributions</i> | 305,470 | 325,677 | 358,188 | 393,223 | 420,280 | 440,240 | 486,052 | 496,044 |
| Households and NPISHs mixed income and operating surplus | 2,664,139 | 2,629,365 | 2,537,532 | 2,785,013 | 3,015,541 | 3,185,106 | 3,469,016 | 3,145,112 |
| Households and NPISHs property income receivable | 986,607 | 1,021,563 | 1,078,826 | 1,048,132 | 1,036,818 | 1,102,780 | 1,144,425 | 1,083,717 |
| Interest | 305,577 | 292,019 | 272,989 | 252,739 | 236,594 | 239,775 | 255,180 | 228,849 |
| Distributed income of corporations | 456,117 | 491,414 | 561,602 | 539,754 | 533,305 | 580,027 | 596,016 | 546,079 |
| Investment income disbursements | 139,944 | 155,102 | 163,185 | 173,698 | 184,944 | 198,072 | 206,698 | 220,246 |
| Rent | 84,969 | 83,028 | 81,050 | 81,941 | 81,975 | 84,906 | 86,531 | 88,543 |
| General government property income receivable | 194,127 | 209,437 | 223,094 | 221,074 | 235,433 | 253,472 | 256,804 | 207,005 |
| Interest | 43,696 | 43,113 | 45,883 | 44,193 | 44,185 | 42,500 | 44,727 | 41,143 |
| Distributed income of corporations | 104,330 | 119,288 | 130,004 | 121,228 | 130,150 | 145,396 | 153,243 | 114,283 |
| Investment income disbursements | 34,737 | 37,733 | 39,967 | 43,406 | 45,382 | 47,538 | 49,721 | 45,847 |
| Rent | 11,364 | 9,303 | 7,240 | 12,247 | 15,716 | 18,038 | 9,113 | 5,732 |
| Appropriated corporation profit | 1,299,454 | 1,425,258 | 1,452,344 | 1,771,393 | 2,083,544 | 2,190,102 | 2,277,548 | 2,050,143 |
| Savings of corporations | 805,328 | 930,341 | 928,064 | 1,286,907 | 1,573,381 | 1,573,452 | 1,650,715 | 1,472,963 |
| Corporate current taxes on income | 704,087 | 662,078 | 653,868 | 644,309 | 649,281 | 748,882 | 750,435 | 634,138 |
| Corporate transfer payments | -209,961 | -167,161 | -129,588 | -159,823 | -139,118 | -132,232 | -123,602 | -56,958 |
| <i>Received by general government</i> | 14,452 | 21,332 | 29,724 | 4,366 | 22,475 | 20,781 | 20,728 | 23,650 |
| <i>Received by households and NPISHs</i> | 24,197 | 21,659 | 24,563 | 23,322 | 23,680 | 25,827 | 25,750 | 24,815 |
| <i>Received by Row (net)</i> | -248,610 | -210,152 | -183,875 | -187,511 | -185,273 | -178,840 | -170,080 | -105,423 |
| Households and NPISHs property income payable | 344,537 | 351,518 | 362,447 | 363,248 | 375,135 | 393,150 | 415,313 | 400,404 |
| Interest | 224,831 | 230,757 | 241,430 | 237,901 | 247,778 | 260,706 | 279,061 | 266,014 |
| Investment income disbursements | 34,737 | 37,733 | 39,967 | 43,406 | 45,382 | 47,538 | 49,721 | 45,847 |
| Rent | 84,969 | 83,028 | 81,050 | 81,941 | 81,975 | 84,906 | 86,531 | 88,543 |
| General government property income payable | 176,429 | 192,353 | 197,487 | 210,711 | 211,771 | 221,909 | 232,298 | 224,119 |
| Interest | 141,688 | 154,616 | 157,516 | 167,300 | 166,382 | 174,366 | 182,570 | 178,266 |
| Investment income disbursements | 34,737 | 37,733 | 39,967 | 43,406 | 45,382 | 47,538 | 49,721 | 45,847 |
| Rent | 4 | 4 | 4 | 5 | 7 | 5 | 7 | 6 |
| Taxes on production and imports less subsidies | 1,339,877 | 1,270,121 | 1,403,640 | 1,453,542 | 1,526,468 | 1,644,282 | 1,687,064 | 1,450,358 |
| Net National Income (NNI) | 10,005,145 | 10,335,413 | 10,689,671 | 11,416,586 | 12,166,150 | 12,804,832 | 13,352,358 | 12,304,560 |
| Plus : Consumption of fixed capital | 2,084,525 | 2,214,196 | 2,344,834 | 2,488,386 | 2,628,663 | 2,775,404 | 2,912,542 | 2,973,263 |
| Gross National Income, (GNI) ^{1/} | 12,089,670 | 12,549,609 | 13,034,505 | 13,904,972 | 14,794,813 | 15,580,236 | 16,264,900 | 15,277,823 |
| Less : Primary income from the rest of the world, net | -825,489 | -680,697 | -708,973 | -685,365 | -693,851 | -793,104 | -627,510 | -359,068 |
| Gross Domestic Product (GDP) | 12,915,159 | 13,230,306 | 13,743,478 | 14,590,337 | 15,488,664 | 16,373,340 | 16,892,410 | 15,636,891 |

Note : ^{1/} GNI = GNP (Gross National Products)

Table 51 Savings and gross capital formation

(Millions of Baht)

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Private sector | 2,541,236 | 2,572,184 | 2,506,163 | 2,529,341 | 2,653,500 | 2,773,129 | 2,849,400 | 2,628,119 |
| Public sector | 737,090 | 690,594 | 864,906 | 930,560 | 925,677 | 957,740 | 962,773 | 1,006,463 |
| Change in inventories | 267,804 | -98,217 | -298,624 | -380,535 | -26,962 | 398,424 | 209,192 | 69,459 |
| Gross domestic capital formation | 3,546,130 | 3,164,561 | 3,072,445 | 3,079,366 | 3,552,215 | 4,129,293 | 4,021,365 | 3,704,041 |
| Net savings | 1,430,579 | 1,422,244 | 1,509,172 | 1,899,924 | 2,318,467 | 2,410,687 | 2,437,197 | 1,402,559 |
| Private sector | 1,250,470 | 1,490,935 | 1,440,213 | 1,837,752 | 2,234,485 | 2,279,656 | 2,200,494 | 2,119,903 |
| <i>Households and NPISHs</i> | 560,543 | 649,805 | 637,481 | 760,267 | 898,032 | 910,393 | 913,490 | 911,145 |
| <i>Corporations and cooperatives</i> | 689,927 | 841,130 | 802,732 | 1,077,485 | 1,336,453 | 1,369,263 | 1,287,004 | 1,208,758 |
| Public sector | 180,109 | -68,691 | 68,959 | 62,172 | 83,982 | 131,031 | 236,703 | -717,344 |
| <i>General government</i> | 64,708 | -157,902 | -56,373 | -147,250 | -152,946 | -73,158 | -127,008 | -981,549 |
| <i>Public corporations and government enterprises</i> | 115,401 | 89,211 | 125,332 | 209,422 | 236,928 | 204,189 | 363,711 | 264,205 |
| Provision for consumption of fixed capital | 2,084,525 | 2,214,196 | 2,344,834 | 2,488,386 | 2,628,663 | 2,775,404 | 2,912,542 | 2,973,263 |
| Less : Statistical discrepancy | 225,649 | 90,711 | -172,511 | -225,672 | -95,683 | 144,668 | 153,538 | 9,513 |
| Gross savings | 3,289,455 | 3,545,729 | 4,026,517 | 4,613,982 | 5,042,813 | 5,041,423 | 5,196,201 | 4,366,309 |
| Less : Surplus of the nation on current account | -256,675 | 381,168 | 954,072 | 1,534,616 | 1,490,598 | 912,130 | 1,174,836 | 662,268 |
| Finance of gross domestic capital formation | 3,546,130 | 3,164,561 | 3,072,445 | 3,079,366 | 3,552,215 | 4,129,293 | 4,021,365 | 3,704,041 |

Table 52 General government income account

(Millions of Baht)

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Income | | | | | | | | |
| Primary income receivable | 1,882,825 | 1,850,760 | 1,957,690 | 2,016,359 | 2,110,215 | 2,266,982 | 2,312,940 | 2,053,260 |
| Gross operation surplus | 245,156 | 249,348 | 261,017 | 273,413 | 286,657 | 300,641 | 310,087 | 317,522 |
| Taxes on production and imports | 1,443,542 | 1,391,975 | 1,473,579 | 1,521,872 | 1,588,125 | 1,712,869 | 1,746,049 | 1,528,733 |
| Property income | 194,127 | 209,437 | 223,094 | 221,074 | 235,433 | 253,472 | 256,804 | 207,005 |
| Interest | 43,696 | 43,113 | 45,883 | 44,193 | 44,185 | 42,500 | 44,727 | 41,143 |
| Dividends | 104,330 | 119,288 | 130,004 | 121,228 | 130,150 | 145,396 | 153,243 | 114,283 |
| Investment income payable on pension entitlements ^{1/} | 34,737 | 37,733 | 39,967 | 43,406 | 45,382 | 47,538 | 49,721 | 45,847 |
| Rent | 11,364 | 9,303 | 7,240 | 12,247 | 15,716 | 18,038 | 9,113 | 5,732 |
| Secondary income receivable | 2,115,686 | 2,042,535 | 2,201,660 | 2,206,884 | 2,296,417 | 2,395,181 | 2,479,328 | 2,327,400 |
| Current taxes on income, wealth, etc. | 988,890 | 915,579 | 944,041 | 945,045 | 940,953 | 1,053,244 | 1,082,561 | 947,239 |
| Taxes on income | 959,843 | 881,447 | 906,322 | 908,726 | 897,742 | 1,004,085 | 1,032,703 | 897,716 |
| Other current taxes | 29,047 | 34,132 | 37,719 | 36,319 | 43,211 | 49,159 | 49,858 | 49,523 |
| Social contributions | 378,522 | 427,890 | 460,843 | 510,514 | 542,202 | 573,014 | 616,534 | 590,271 |
| Other current transfers | 748,274 | 699,066 | 796,776 | 751,325 | 813,262 | 768,923 | 780,233 | 789,890 |
| Non-life insurance claims | 1 | 2 | 1 | 1 | 1 | - | - | - |
| Current transfers within general government | 712,042 | 656,299 | 734,081 | 701,203 | 762,526 | 710,498 | 724,119 | 732,384 |
| Current international cooperation | 3,120 | 3,497 | 2,190 | 3,009 | 2,572 | 3,180 | 2,673 | 3,182 |
| Miscellaneous current transfers | 33,111 | 39,268 | 60,504 | 47,112 | 48,163 | 55,245 | 53,441 | 54,324 |
| Total income receivable | 3,998,511 | 3,893,295 | 4,159,350 | 4,223,243 | 4,406,632 | 4,662,163 | 4,792,268 | 4,380,660 |
| Use of income | | | | | | | | |
| Primary income uses | 280,094 | 314,207 | 267,426 | 279,041 | 273,428 | 290,496 | 291,283 | 302,494 |
| Property income | 176,429 | 192,353 | 197,487 | 210,711 | 211,771 | 221,909 | 232,298 | 224,119 |
| Interest | 141,688 | 154,616 | 157,516 | 167,300 | 166,382 | 174,366 | 182,570 | 178,266 |
| Investment income payable on pension entitlements ^{1/} | 34,737 | 37,733 | 39,967 | 43,406 | 45,382 | 47,538 | 49,721 | 45,847 |
| Rent | 4 | 4 | 4 | 5 | 7 | 5 | 7 | 6 |
| Subsidies | 103,665 | 121,854 | 69,939 | 68,330 | 61,657 | 68,587 | 58,985 | 78,375 |
| Secondary income uses | 1,166,124 | 1,118,434 | 1,199,395 | 1,222,223 | 1,330,631 | 1,346,773 | 1,431,970 | 1,835,018 |
| Social benefits other than social transfers in kind | 330,096 | 346,702 | 377,027 | 421,938 | 459,179 | 526,108 | 575,120 | 637,939 |
| Social security benefits in cash | 29,400 | 30,159 | 31,332 | 36,394 | 38,769 | 45,333 | 51,242 | 85,873 |
| Other social insurance benefits | 207,476 | 227,205 | 252,867 | 294,198 | 316,394 | 335,134 | 366,468 | 389,768 |
| Social assistance benefits in cash | 93,220 | 89,338 | 92,828 | 91,346 | 104,016 | 145,641 | 157,410 | 162,298 |
| Other current transfers | 836,028 | 771,732 | 822,368 | 800,285 | 871,452 | 820,665 | 856,850 | 1,197,079 |
| Net non-life insurance premiums | 380 | 444 | 200 | 184 | 251 | 279 | 165 | 208 |
| Current transfers within general government | 712,042 | 656,299 | 734,081 | 701,203 | 762,526 | 710,498 | 724,119 | 732,384 |
| Current international cooperation | 1,375 | 1,819 | 1,602 | 2,548 | 1,985 | 2,008 | 1,430 | 1,502 |
| Miscellaneous current transfers | 122,231 | 113,170 | 86,485 | 96,350 | 106,690 | 107,880 | 131,136 | 462,985 |
| Total income payable | 1,446,218 | 1,432,641 | 1,466,821 | 1,501,264 | 1,604,059 | 1,637,269 | 1,723,253 | 2,137,512 |
| Gross disposable income | 2,552,293 | 2,460,654 | 2,692,529 | 2,721,979 | 2,802,573 | 3,024,894 | 3,069,015 | 2,243,148 |
| Final consumption expenditure | 2,113,369 | 2,238,084 | 2,353,042 | 2,460,686 | 2,524,403 | 2,648,220 | 2,732,166 | 2,789,730 |
| Adjustment for the change in pension entitlement | 129,060 | 131,124 | 134,843 | 135,130 | 144,459 | 149,191 | 153,770 | 117,445 |
| Net saving | 64,708 | -157,902 | -56,373 | -147,250 | -152,946 | -73,158 | -127,008 | -981,549 |
| Consumption of fixed capital | 245,156 | 249,348 | 261,017 | 273,413 | 286,657 | 300,641 | 310,087 | 317,522 |
| Total use of gross income | 3,998,511 | 3,893,295 | 4,159,350 | 4,223,243 | 4,406,632 | 4,662,163 | 4,792,268 | 4,380,660 |

Note : - is zero or rounded to zero

n.a. is not available

^{1/} Governmental funds consist of social security fund (In the case of child allowance and old age), Bangkok Metropolitan Administration pension fund and local administration pension fund.

Table 53 mixed income and operating surplus

(Millions of Baht)

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
|---|------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|
| Income | | | | | | | | |
| Primary income receivable | 7,858,161 | 8,148,768 | 8,359,057 | 8,738,720 | 9,112,976 | 9,540,682 | 9,991,654 | 9,435,652 |
| <i>Compensation of employees</i> | 4,041,907 | 4,323,540 | 4,554,169 | 4,711,391 | 4,855,252 | 5,044,149 | 5,165,112 | 4,992,748 |
| <i>Gross mixed income and operating surplus</i> | 2,829,647 | 2,803,665 | 2,726,062 | 2,979,197 | 3,220,906 | 3,393,753 | 3,682,117 | 3,359,187 |
| <i>Property income receivable</i> | 986,607 | 1,021,563 | 1,078,826 | 1,048,132 | 1,036,818 | 1,102,780 | 1,144,425 | 1,083,717 |
| Secondary income receivable | 612,239 | 623,930 | 609,837 | 656,654 | 736,624 | 817,791 | 934,107 | 1,337,448 |
| Social benefits other than social transfers in kind | 330,096 | 346,702 | 377,027 | 421,938 | 459,179 | 526,108 | 575,120 | 637,939 |
| Other current transfers | 282,143 | 277,228 | 232,810 | 234,716 | 277,445 | 291,683 | 358,987 | 699,509 |
| <i>from corporate</i> | 24,197 | 21,659 | 24,563 | 23,322 | 23,680 | 25,827 | 25,750 | 24,815 |
| <i>from general government</i> | 112,035 | 105,648 | 76,012 | 68,835 | 95,688 | 93,017 | 116,238 | 448,695 |
| <i>from the rest of the world</i> | 145,911 | 149,921 | 132,235 | 142,559 | 158,077 | 172,839 | 216,999 | 225,999 |
| Total income receivable | 8,470,400 | 8,772,698 | 8,968,894 | 9,395,374 | 9,849,600 | 10,358,473 | 10,925,761 | 10,773,100 |
| Use of income | | | | | | | | |
| Primary income payable | 344,537 | 351,518 | 362,447 | 363,248 | 375,135 | 393,150 | 415,313 | 400,404 |
| Property income payable | 344,537 | 351,518 | 362,447 | 363,248 | 375,135 | 393,150 | 415,313 | 400,404 |
| Secondary income payable | 741,668 | 769,560 | 858,733 | 916,253 | 936,792 | 990,788 | 1,131,132 | 1,063,349 |
| Current taxes on income, wealth, etc. | 284,803 | 253,501 | 290,173 | 300,736 | 291,672 | 304,362 | 332,126 | 313,101 |
| Net social security contribution | 378,522 | 427,890 | 460,843 | 510,514 | 542,202 | 573,014 | 616,534 | 590,271 |
| Other current transfers | 78,343 | 88,169 | 107,717 | 105,003 | 102,918 | 113,412 | 182,472 | 159,977 |
| <i>to general government</i> | 8,084 | 9,972 | 20,108 | 15,048 | 14,436 | 19,322 | 17,650 | 16,176 |
| <i>to the rest of the world</i> | 70,259 | 78,197 | 87,609 | 89,955 | 88,482 | 94,090 | 164,822 | 143,801 |
| Total income payable | 1,086,205 | 1,121,078 | 1,221,180 | 1,279,501 | 1,311,927 | 1,383,938 | 1,546,445 | 1,463,753 |
| Gross Disposable income | 7,384,195 | 7,651,620 | 7,747,714 | 8,115,873 | 8,537,673 | 8,974,535 | 9,379,316 | 9,309,347 |
| Final consumption expenditure | 6,787,204 | 6,958,639 | 7,056,546 | 7,296,552 | 7,578,735 | 8,004,686 | 8,406,495 | 8,301,572 |
| Less : Adjustment for the change in pension entitlement ^{1/} | 129,060 | 131,124 | 134,843 | 135,130 | 144,459 | 149,191 | 153,770 | 117,445 |
| Net saving | 560,543 | 649,805 | 637,481 | 760,267 | 898,032 | 910,393 | 913,490 | 911,145 |
| Consumption of fixed capital | 165,508 | 174,300 | 188,530 | 194,184 | 205,365 | 208,647 | 213,101 | 214,075 |
| Total use of gross disposable income | 7,384,195 | 7,651,620 | 7,747,714 | 8,115,873 | 8,537,673 | 8,974,535 | 9,379,316 | 9,309,347 |
| Per capita net disposable income (Baht) | 107,498 | 110,664 | 111,187 | 115,946 | 121,109 | 126,845 | 132,240 | 130,850 |
| Per capita final consumption expenditure (Baht) | 101,072 | 102,987 | 103,794 | 106,797 | 110,156 | 115,830 | 121,280 | 119,432 |
| Per capita net saving (Baht) | 8,347 | 9,617 | 9,377 | 11,128 | 13,053 | 13,174 | 13,179 | 13,108 |
| Population (1,000 Heads) | 67,152 | 67,568 | 67,986 | 68,322 | 68,800 | 69,107 | 69,315 | 69,509 |

Note : ^{1/} Governmental funds consist of social security fund (In the case of child allowance and old age), private teacher aid fund, Bangkok Metropolitan Administration pension fund and local administration pension fund.

Table 54 Compensation of employees

(Millions of Baht)

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Domestic | 4,016,251 | 4,300,943 | 4,533,734 | 4,689,364 | 4,845,989 | 5,040,726 | 5,240,434 | 5,063,166 |
| Agriculture | 214,783 | 203,083 | 187,482 | 189,600 | 196,631 | 202,856 | 208,407 | 207,622 |
| Agriculture, forestry and fishing | 214,783 | 203,083 | 187,482 | 189,600 | 196,631 | 202,856 | 208,407 | 207,622 |
| Non-Agriculture | 3,801,468 | 4,097,860 | 4,346,252 | 4,499,764 | 4,649,358 | 4,837,870 | 5,032,027 | 4,855,544 |
| Industrial | 1,162,734 | 1,273,831 | 1,358,017 | 1,387,537 | 1,413,015 | 1,468,439 | 1,497,777 | 1,416,578 |
| Mining and quarrying | 30,216 | 31,201 | 29,613 | 28,541 | 29,309 | 31,087 | 31,042 | 27,612 |
| Manufacturing | 1,039,349 | 1,148,327 | 1,221,541 | 1,250,049 | 1,267,083 | 1,312,854 | 1,332,186 | 1,271,315 |
| Electricity, gas, steam and air conditioning supply | 83,838 | 84,461 | 96,199 | 98,177 | 104,875 | 112,452 | 120,745 | 104,546 |
| Water supply; sewerage, waste management and remediation activities | 9,331 | 9,842 | 10,664 | 10,770 | 11,748 | 12,046 | 13,804 | 13,105 |
| Services | 2,638,734 | 2,824,029 | 2,988,235 | 3,112,227 | 3,236,343 | 3,369,431 | 3,534,250 | 3,438,966 |
| Construction | 195,416 | 192,060 | 197,968 | 204,327 | 200,897 | 202,241 | 205,894 | 207,601 |
| Wholesale and retail trade; repair of motor vehicles and motorcycles | 367,277 | 407,810 | 426,209 | 449,858 | 474,971 | 489,851 | 522,242 | 510,275 |
| Transportation and storage | 145,957 | 151,707 | 164,155 | 171,335 | 182,890 | 191,887 | 205,178 | 170,430 |
| Accommodation and food service activities | 103,605 | 117,385 | 133,351 | 146,888 | 166,060 | 182,710 | 199,688 | 131,656 |
| Information and communication | 69,178 | 67,332 | 72,531 | 73,325 | 74,004 | 75,570 | 83,265 | 76,748 |
| Financial and insurance activities | 270,241 | 290,552 | 308,564 | 319,428 | 326,894 | 341,666 | 360,448 | 346,850 |
| Real estate activities | 46,365 | 47,849 | 50,086 | 50,840 | 53,029 | 54,713 | 57,459 | 58,543 |
| Professional, scientific and technical activities | 69,195 | 71,510 | 74,324 | 74,718 | 76,717 | 79,715 | 80,044 | 78,166 |
| Administrative and support service activities | 54,548 | 56,288 | 58,244 | 59,561 | 61,426 | 64,130 | 66,596 | 54,775 |
| Public administration and defence; compulsory social security | 557,649 | 596,040 | 626,484 | 653,625 | 678,517 | 705,506 | 733,326 | 762,616 |
| Education | 496,414 | 533,896 | 561,078 | 572,680 | 586,792 | 613,999 | 635,849 | 647,561 |
| Human health and social work activities | 198,722 | 223,961 | 242,562 | 259,597 | 275,474 | 286,333 | 300,377 | 311,498 |
| Arts, entertainment and recreation | 9,832 | 10,290 | 11,224 | 11,764 | 12,494 | 13,155 | 13,273 | 12,485 |
| Other service activities | 31,038 | 32,575 | 33,646 | 36,178 | 38,755 | 40,585 | 42,547 | 40,908 |
| Activities of households as employers | 23,297 | 24,774 | 27,809 | 28,103 | 27,423 | 27,370 | 28,064 | 28,854 |
| The rest of the world | 25,656 | 22,597 | 20,435 | 22,027 | 9,263 | 3,423 | -75,322 | -70,418 |
| Receive | 56,491 | 61,988 | 69,638 | 78,732 | 69,943 | 68,310 | 36,434 | 32,241 |
| Payment | 30,835 | 39,391 | 49,203 | 56,705 | 60,680 | 64,887 | 111,756 | 102,659 |
| Total | 4,041,907 | 4,323,540 | 4,554,169 | 4,711,391 | 4,855,252 | 5,044,149 | 5,165,112 | 4,992,748 |

Table 55 Households and NPISHs mixed income and operating surplus

(Millions of Baht)

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
|--------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Farm income | 893,192 | 817,123 | 738,530 | 751,775 | 782,799 | 809,540 | 824,638 | 820,791 |
| Other | 1,770,947 | 1,812,242 | 1,799,002 | 2,033,238 | 2,232,742 | 2,375,566 | 2,644,378 | 2,324,321 |
| Total | 2,664,139 | 2,629,365 | 2,537,532 | 2,785,013 | 3,015,541 | 3,185,106 | 3,469,016 | 3,145,112 |

Table 56 Households and NPISHs property income receivable

(Millions of Baht)

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
|--|----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Rent | 84,969 | 83,028 | 81,050 | 81,941 | 81,975 | 84,906 | 86,531 | 88,543 |
| Actual rent | 16,808 | 16,271 | 15,880 | 16,051 | 16,053 | 16,626 | 16,945 | 17,338 |
| Imputed rent | 68,161 | 66,757 | 65,170 | 65,890 | 65,922 | 68,280 | 69,586 | 71,205 |
| Interest | 305,577 | 292,019 | 272,989 | 252,739 | 236,594 | 239,775 | 255,180 | 228,849 |
| Interest paid by banks | 268,785 | 257,180 | 244,766 | 220,082 | 208,606 | 208,751 | 222,234 | 196,745 |
| Government bond interest | 19,023 | 18,547 | 12,592 | 13,095 | 7,456 | 9,120 | 8,149 | 8,136 |
| Interest received from the rest of the world | - | 117 | 306 | 591 | 959 | 1,505 | 2,091 | 605 |
| Others | 17,769 | 16,175 | 15,325 | 18,971 | 19,573 | 20,399 | 22,706 | 23,363 |
| Distributed income of corporations | 456,117 | 491,414 | 561,602 | 539,754 | 533,305 | 580,027 | 596,016 | 546,079 |
| Dividends from private corporations | 393,693 | 425,617 | 491,033 | 460,236 | 445,691 | 487,100 | 498,967 | 453,671 |
| Dividends from cooperatives | 52,938 | 58,197 | 62,725 | 69,151 | 74,817 | 80,259 | 84,047 | 86,236 |
| Dividends from public corporations | 9,486 | 7,600 | 7,844 | 10,367 | 12,797 | 12,668 | 13,002 | 6,172 |
| Investment income disbursements | 139,944 | 155,102 | 163,185 | 173,698 | 184,944 | 198,072 | 206,698 | 220,246 |
| Beneficiaries from provident fund | 21,442 | 21,884 | 21,344 | 19,189 | 18,537 | 19,105 | 20,487 | 16,622 |
| Beneficiaries from government pension fund | 19,284 | 21,145 | 22,220 | 21,851 | 21,793 | 23,068 | 23,733 | 23,507 |
| Investment income payable on pension entitlement ^{1/} | 34,737 | 37,733 | 39,967 | 43,406 | 45,382 | 47,538 | 49,721 | 45,847 |
| Investment income attributable to insurances policy holder | 64,481 | 74,340 | 79,654 | 89,252 | 99,232 | 108,361 | 112,757 | 134,270 |
| Total | 986,607 | 1,021,563 | 1,078,826 | 1,048,132 | 1,036,818 | 1,102,780 | 1,144,425 | 1,083,717 |

Note : ^{1/} Governmental funds consist of social security fund (In the case of child allowance and old age), private teacher aid fund, Bangkok Metropolitan Administration pension fund and local administration pension fund.

Table 57 Household and NPISHs property income payable

(Millions of Baht)

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
|--|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Interest | 224,831 | 230,757 | 241,430 | 237,901 | 247,778 | 260,706 | 279,061 | 266,014 |
| Interest paid to banks | 139,039 | 137,291 | 135,542 | 128,885 | 131,835 | 139,581 | 154,636 | 140,248 |
| Pawnshop interest | 6,815 | 6,441 | 6,298 | 6,515 | 6,841 | 6,718 | 6,270 | 6,060 |
| Interest on loan from life insurance policy | 945 | 1,043 | 1,137 | 1,201 | 1,344 | 1,521 | 1,736 | 1,711 |
| Interest paid to cooperatives | 74,747 | 81,834 | 93,061 | 94,874 | 99,749 | 105,234 | 107,928 | 109,498 |
| Interest paid to the rest of the world | - | 363 | 433 | 536 | 520 | 495 | 476 | 358 |
| Others | 3,285 | 3,785 | 4,959 | 5,890 | 7,489 | 7,157 | 8,015 | 8,139 |
| Investment income disbursements | 34,737 | 37,733 | 39,967 | 43,406 | 45,382 | 47,538 | 49,721 | 45,847 |
| Investment income payable on pension entitlement ^{1/} | 34,737 | 37,733 | 39,967 | 43,406 | 45,382 | 47,538 | 49,721 | 45,847 |
| Rent | 84,969 | 83,028 | 81,050 | 81,941 | 81,975 | 84,906 | 86,531 | 88,543 |
| Total | 344,537 | 351,518 | 362,447 | 363,248 | 375,135 | 393,150 | 415,313 | 400,404 |

Note : ^{1/} Governmental funds consist of social security fund (In the case of child allowance and old age), private teacher aid fund, Bangkok Metropolitan Administration pension fund and local administration pension fund.

Table 58 Saving of corporations

(Millions of Baht)

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
|---|----------------|----------------|----------------|------------------|------------------|------------------|------------------|------------------|
| Saving of private corporation | 681,323 | 834,008 | 792,651 | 1,066,605 | 1,325,151 | 1,357,940 | 1,275,325 | 1,196,226 |
| Saving of public corporation and government enterprises | 115,401 | 89,211 | 125,332 | 209,422 | 236,928 | 204,189 | 363,711 | 264,205 |
| Saving of cooperatives | 8,604 | 7,122 | 10,081 | 10,880 | 11,302 | 11,323 | 11,679 | 12,532 |
| Total | 805,328 | 930,341 | 928,064 | 1,286,907 | 1,573,381 | 1,573,452 | 1,650,715 | 1,472,963 |

Table 59 Corporate transfer payments received by household and NPISHs

(Millions of Baht)

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
|---|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Transfer from private corporation | 20,382 | 18,913 | 20,152 | 20,835 | 20,682 | 22,226 | 21,280 | 20,068 |
| Transfer from public corporation and government enterprises | 2,668 | 2,312 | 3,241 | 1,982 | 2,451 | 2,583 | 2,921 | 2,860 |
| Transfer from cooperatives | 1,147 | 434 | 1,170 | 505 | 547 | 1,018 | 1,549 | 1,887 |
| Total | 24,197 | 21,659 | 24,563 | 23,322 | 23,680 | 25,827 | 25,750 | 24,815 |

Table 60 Taxes

(Millions of Baht)

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Taxes | | | | | | | | |
| Current taxes on income, wealth, etc. | 988,890 | 915,579 | 944,041 | 945,045 | 940,953 | 1,053,244 | 1,082,561 | 947,239 |
| Taxes on income | 959,843 | 881,447 | 906,322 | 908,726 | 897,742 | 1,004,085 | 1,032,703 | 897,716 |
| From corporation | 687,298 | 642,468 | 632,293 | 623,236 | 622,758 | 717,834 | 717,422 | 601,970 |
| From households | 272,545 | 238,979 | 274,029 | 285,490 | 274,984 | 286,251 | 315,281 | 295,746 |
| Other current taxes | 29,047 | 34,132 | 37,719 | 36,319 | 43,211 | 49,159 | 49,858 | 49,523 |
| From corporation | 16,789 | 19,610 | 21,575 | 21,073 | 26,523 | 31,048 | 33,013 | 32,168 |
| From households | 12,258 | 14,522 | 16,144 | 15,246 | 16,688 | 18,111 | 16,845 | 17,355 |
| Taxes on production and imports | 1,443,542 | 1,391,975 | 1,473,579 | 1,521,872 | 1,588,125 | 1,712,869 | 1,746,049 | 1,528,733 |
| Taxes on products | 1,351,505 | 1,303,157 | 1,388,433 | 1,422,778 | 1,489,791 | 1,607,673 | 1,641,487 | 1,467,610 |
| Value added type taxes (VAT) ^{1/} | 522,724 | 531,117 | 556,442 | 557,872 | 594,433 | 637,347 | 643,313 | 599,416 |
| Taxes and duties on imports excluding VAT | 183,960 | 179,553 | 185,550 | 194,093 | 206,278 | 212,773 | 217,757 | 158,465 |
| Import duties | 106,972 | 108,770 | 112,322 | 103,471 | 103,506 | 107,067 | 104,008 | 90,708 |
| Taxes on imports excluding VAT and duties | 76,988 | 70,783 | 73,228 | 90,622 | 102,772 | 105,706 | 113,749 | 67,757 |
| Export taxes | 220 | 305 | 189 | 83 | 103 | 170 | 202 | 158 |
| Taxes on products except VAT, import and export taxes | 644,601 | 592,182 | 646,252 | 670,730 | 688,977 | 757,383 | 780,215 | 709,571 |
| Other taxes on production | 92,037 | 88,818 | 85,146 | 99,094 | 98,334 | 105,196 | 104,562 | 61,123 |
| Total taxes | 2,432,432 | 2,307,554 | 2,417,620 | 2,466,917 | 2,529,078 | 2,766,113 | 2,828,610 | 2,475,972 |
| Subsidies | | | | | | | | |
| Subsidies on products | 79,001 | 94,370 | 43,304 | 44,183 | 37,497 | 43,835 | 34,334 | 49,969 |
| Import subsidies | 3,041 | 3,674 | 816 | 962 | 1,272 | 1,742 | 902 | 1,642 |
| Export subsidies | 10,634 | 9,005 | 9,364 | 8,987 | 7,912 | 9,293 | 8,294 | 6,646 |
| Other subsidies on products | 65,326 | 81,691 | 33,124 | 34,234 | 28,313 | 32,800 | 25,138 | 41,681 |
| Other subsidies on production | 24,664 | 27,484 | 26,635 | 24,147 | 24,160 | 24,752 | 24,651 | 28,406 |
| Total subsidies | 103,665 | 121,854 | 69,939 | 68,330 | 61,657 | 68,587 | 58,985 | 78,375 |
| Total taxes on production and imports less subsidies | 1,339,877 | 1,270,121 | 1,403,640 | 1,453,542 | 1,526,468 | 1,644,282 | 1,687,064 | 1,450,358 |

Note : ^{1/} VAT originated from 1992

Table 61 Social contributions and social transfers

(Millions of Baht)

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018r | 2019r | 2020p |
|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Social contributions | 378,522 | 427,890 | 460,843 | 510,514 | 542,202 | 573,014 | 616,534 | 590,271 |
| Employers' actual social contributions ^{1/} | 57,305 | 74,522 | 77,823 | 80,297 | 84,466 | 87,621 | 92,019 | 70,063 |
| Employers' imputed social contributions | 207,476 | 227,205 | 252,867 | 294,198 | 316,394 | 335,134 | 366,468 | 389,768 |
| Households' actual social contributions ^{1/} | 79,004 | 88,430 | 90,186 | 92,613 | 95,960 | 102,721 | 108,326 | 84,593 |
| Households' social contributions supplements ^{1/} | 34,737 | 37,733 | 39,967 | 43,406 | 45,382 | 47,538 | 49,721 | 45,847 |
| Social benefits other than social transfers in kind | 330,096 | 346,702 | 377,027 | 421,938 | 459,179 | 526,108 | 575,120 | 637,939 |
| Social security benefits in cash ^{1/} | 29,400 | 30,159 | 31,332 | 36,394 | 38,769 | 45,333 | 51,242 | 85,873 |
| Other social insurance benefits | 207,476 | 227,205 | 252,867 | 294,198 | 316,394 | 335,134 | 366,468 | 389,768 |
| Social assistance benefits in cash | 93,220 | 89,338 | 92,828 | 91,346 | 104,016 | 145,641 | 157,410 | 162,298 |
| Social transfers in kind | 1,012,806 | 1,096,910 | 1,148,884 | 1,211,288 | 1,254,859 | 1,304,166 | 1,344,522 | 1,399,390 |
| Social transfers in kind - non-market production | 774,914 | 852,780 | 905,607 | 951,068 | 984,792 | 1,036,005 | 1,069,803 | 1,120,238 |
| Social transfers in kind - purchased market production | 237,892 | 244,130 | 243,277 | 260,220 | 270,067 | 268,161 | 274,719 | 279,152 |
| <i>Social security benefits, reimbursements ^{1/}</i> | 3,106 | 3,739 | 5,052 | 5,847 | 6,329 | 5,568 | 7,192 | 7,796 |
| <i>Other social security benefits in kind ^{1/}</i> | 31,973 | 31,625 | 37,253 | 40,888 | 43,075 | 45,428 | 49,907 | 53,984 |
| <i>Social assistance benefits in kind</i> | 202,813 | 208,766 | 200,972 | 213,485 | 220,663 | 217,165 | 217,620 | 217,372 |

Note : ^{1/} The government social security plans included in government account comprise 6 funds as below:

- 1) Social security fund
- 2) The Workmen's Compensation fund
- 3) Welfare fund (the former name is headmaster and private school teacher welfare fund)
- 4) The national health security fund
- 5) Bangkok Metropolitan Administration pension fund
- 6) Local administration pension fund

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|---|-----------------------------|------------------------|----------------|
| Main Accounts | | | |
| Account 1. Production account | Jaruwan Poolsuk | jaruwan@nesdc.go.th | 6514 |
| | Peeranat Dangskul | peeranat@nesdc.go.th | 6521 |
| Account 2. Generation of income account | Thanapat Suntivong | thanapat@nesdc.go.th | 6513 |
| | Jaruwan Poolsuk | jaruwan@nesdc.go.th | 6514 |
| Account 3. Allocation of primary income account | Jaruwan Poolsuk | jaruwan@nesdc.go.th | 6514 |
| | Santi Srisomboon | santi@nesdc.go.th | 6526 |
| Account 4. Secondary distribution of income account | Jaruwan Poolsuk | jaruwan@nesdc.go.th | 6514 |
| Account 5. Use of disposable income account | Phirunthip Sukneongbung | phirunthip@nesdc.go.th | 6505 |
| | Jaruwan Poolsuk | jaruwan@nesdc.go.th | 6514 |
| Account 6. Redistribution of income in kind account | Jaruwan Poolsuk | jaruwan@nesdc.go.th | 6514 |
| Account 7. Use of adjusted disposable income account | Jaruwan Poolsuk | jaruwan@nesdc.go.th | 6514 |
| Account 8. External income account | Santi Srisomboon | santi@nesdc.go.th | 6526 |
| Gross Domestic Product, Chain Volume Measures | | | |
| Table 1 - 2.3 | Peeranat Dangskul | peeranat@nesdc.go.th | 6521 |
| Change in Inventories | Pirachat Panngam | Pirachat@nesdc.go.th | 6529 |
| Gross Domestic Product (Production) | | | |
| Table 3, 5.3, 28-29.2 | Peeranat Dangskul | peeranat@nesdc.go.th | 6521 |
| Table 4 | Jaruwan Poolsuk | jaruwan@nesdc.go.th | 6514 |
| Table 6 - 7.2, 14-15.2, 34-35.2 | Peeranat Dangskul | peeranat@nesdc.go.th | 6521 |
| Table 8 - 9.2, 20-21.2, 24-25.2, 30-31.2 | Nathicha Singnoi | nathicha@nesdc.go.th | 6527 |
| Table 10 - 11.2, 18-19.2 | Mattanee Phumklai | mattanee@nesdc.go.th | 6523 |
| Table 12 - 13.2, 22-23.2, 32-33.2, 36-37.2 | Kittiya Rujinarong | kittiya@nesdc.go.th | 6543 |
| Table 16 - 17.2 | Jindarat Shibue | jindarat-s@nesdc.go.th | 6509 |
| Table 26 - 27.2 | Udomsuk Khieopong | udomsuk@nesdc.go.th | 6506 |
| Gross Domestic Product (Expenditure) | | | |
| <i>Private final consumption expenditure</i> | | | |
| Table 38 - 41.2 | Phirunthip Sukneongbung | phirunthip@nesdc.go.th | 6505 |
| | Kittisak Sirikhun | kittisak-s@nesdc.go.th | 6538 |
| <i>General government final consumption expenditure</i> | | | |
| Table 42 - 43.2 | Jaruwan Poolsuk | jaruwan@nesdc.go.th | 6514 |
| Capital formation | | | |
| Table 44 - 49.2 | Jindarat Shibue | jindarat-s@nesdc.go.th | 6509 |
| | Jaruwan Poolsuk | jaruwan@nesdc.go.th | 6514 |
| | Supaporn Wareerat | supaporn_c@nesdc.go.th | 6510 |
| National Income | | | |
| Table 50 - 51 | Santi Srisomboon | santi@nesdc.go.th | 6526 |
| | Kullatree Kitjaruwong | kullatree@nesdc.go.th | 6524 |
| Table 52 | Jaruwan Poolsuk | jaruwan@nesdc.go.th | 6514 |
| Table 53 - 54 | Santi Srisomboon | santi@nesdc.go.th | 6526 |
| | Kullatree Kitjaruwong | kullatree@nesdc.go.th | 6524 |
| Table 55 - 59 | Santi Srisomboon | santi@nesdc.go.th | 6526 |
| Table 60 - 61 | Jaruwan Poolsuk | jaruwan@nesdc.go.th | 6514 |



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