



รายได้ประชาชาติของประเทศไทย พ.ศ. ๒๕๖๒ แบบปริมาณลูกโซ่

National Income of Thailand 2019 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 2019 edition, following the International System of National Accounts (SNA), is compiled using the chained volume measures (CVMs) in measuring the real terms. In this 2019 edition, data are revised back to 2014 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.



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Secretary-General

National Economic and Social Development Council
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Revisions to the National Income of Thailand 2019 Edition

In this publication, the estimates have been revised back to 2014. The revisions are made based on the most recent data from the primary sources as follows:

1. Revising data

- Agricultural, forestry and fishing sector: revising agricultural figures back to 2017 according to the Agricultural Statistics of Thailand from the Office of Agricultural Economics, and revising fishery production figures according to the Fisheries Statistics of Thailand 2018 and estimated data 2019 from the Department of Fisheries.
- Mining and quarrying sector: revising mineral production figures back to 2017 according to mineral production of Thailand from the Department of Primary Industries and Mines, and the Department of Mineral Fuels.
- Manufacturing sector: revising industrial production figures back to 2017 according to the Manufacturing Product Index (MPI) from the Office of Industrial Economics, Ministry of Industry; revising imports and exports of merchandise data from the Customs Department, and revising other manufacturing data in relevant sectors.
- Construction sector: revising the construction data of the public sector back to 2018.
- Accommodation and catering services; real estate, renting and business services sector; other community, social, personal services activities sector; professional activities, science, and academic activities sector; and other services activities sector: revising income for the Value Added Taxes assessment back to 2017.
- Human health and social work activities sector: revising the data back to 2017 according to the revised expenditure data of health services of general government and private health services.
- Financial and insurance activities sector; adding “National Savings Fund” back to 2014.
- Private final consumption expenditure: revising the data back to 2014 according to relevant data sources.
- General government consumption expenditure: revising the data back to 2016 according to relevant data sources.
- Gross fixed capital formation expenditure: revising the public construction data back to 2017 according to the latest report; revising the data of private construction according to the relevant data sources.
- Exports and imports of merchandise and services: revising the data back to 2018 according to the balance of payments of the Bank of Thailand.
- Updating other basic data according to the latest data available from original data sources.

2. Abbreviation

- In this publication, there are two letters assigned after data period (s) in tables (r and p). Letter “r” stands for “revised” representing revision figures based on most recent data, coverage, and compilation methodology. And letter “p” stands for “preliminary” annual figure, which is subject to revisions in the next series of publication.

Executive Summary

The Thai economy in 2019, measured by the Gross Domestic Product (GDP), increased by 2.3%, compared to a rise of 4.2% in 2018. The deceleration was from non-agricultural production, especially the manufacturing, which decreased as exports of goods decreased due to the stagnant international trade conditions and the intensity of the China-United States trade war, as well as the slowdown in domestic demand. Moreover, the service sectors showed decelerated growth in line with the deceleration in the production and the number of foreign tourists.

Production increased by 2.3% as the manufacturing sector decreased by 0.7%, in contrast to a rise of 3.4% in 2018, due to lower export-oriented production in motor vehicles; chemicals and chemical products; and computer, electronic and optical products in line with the international trade conditions. However, service activities increased by 3.9%, lower than in 2018. The deceleration resulted from the slowdown in accommodation and food services, transportation and storage, construction, and financial and insurance activities. Meanwhile, agriculture production decreased by 0.6%, owing mainly to lower the yields of the major crops, namely paddy, sugarcane, and maize in line with drought conditions, despite the expansion in cassava, chicken, cattle, and marine fishing.

Domestic demand showed decelerated growth. The deceleration contributed by final consumption expenditure and investment of the public sector and the private sector. Household expenditure grew by 4.0%, lower than 4.6% in 2018, due to lessened household income in line with slowdown domestic economic conditions which caused households cautious their spending. General government final consumption expenditure increased by 1.7%, compared to 2.6% in 2018. Gross fixed capital formation expanded by 2.0%, compared to 3.8% in 2018. In particular, both public and private investment showed slowdown growth, both construction, and machinery and equipment investment. For the external sector, exports and imports of goods and services dropped by 3.0%, and 5.2%, respectively.

National income in 2019 posted a value of 16,275,574 million baht, which rose by 4.5%. Sources of income were from a return to labor with a value of 5,165,494 million baht or a 2.4% rise. Moreover, a return to capital, land, and operation valued at 6,549,690 million baht, increased by 7.0%. Taxes on production and import less subsidies valued at 1,651,922 million baht, increased by 1.0%. Consumption of fixed capital valued at 2,911,468 million baht, increased by 4.9%. In per capita terms, national income per capita in 2019 was 234,806 baht, rising from 225,384 baht in 2018. Disposable income per capita was 132,321 baht and consumption expenditure per capita was 121,272 baht. Consequently, per capita personal savings valued at 13,280 baht in 2019.

For overall economic stability, recently gross saving increased by 3.1%, accelerating from 0.2% in 2018, whereas gross investment decreased by 2.7%. Consequently, the saving-investment gap (equivalent to current account) postulated a surplus with the value of 1,179,732 million baht, accounting for 7.0% of GDP. However, it was higher than a surplus of 912,130 million baht in 2018.

GDP implicit price deflator expanded by 0.9%, compared to 1.4% in 2018. The slow expansion contributed from the non-agricultural price index with a rise of 0.7%, lower than 1.8% in 2018. However, the agricultural price index accelerated by 3.3%, improving from a fall of 2.8% in 2018. Meanwhile, the consumer price index (CPI) rose by 0.7%, whereas the producer price index (PPI) dropped by 1.0%.

Contents

	Pages
Preface	
Revisions to the National Income of Thailand 2019 edition	
Executive summary	
Thai Economy in 2019, national accounts perspectives	49
Overview	49
Gross domestic product	51
Expenditure on Gross domestic product	60
External sectors	69
National income and savings	71
GDP implicit price deflator	83
Statistical tables	85

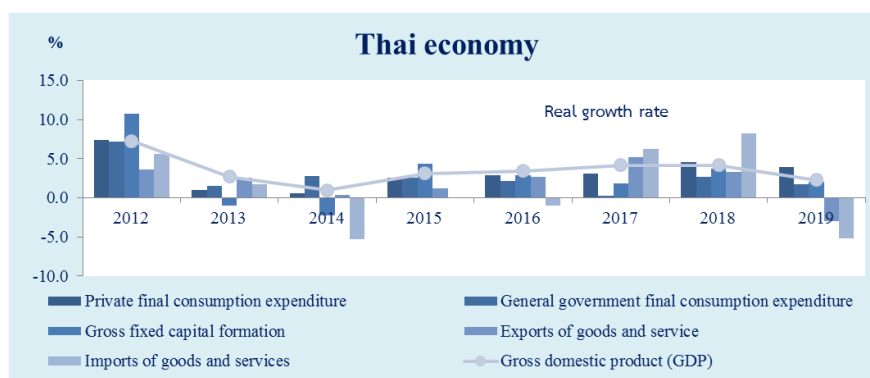
Thai Economy in 2019 National Accounts Perspectives

Overview

GDP in 2019 rose by 2.3%, compared to 4.2% in 2018, due to subsided external demand in line with the international trade conditions.

Gross Domestic Product of 2019 expanded by 2.3%, compared to a rise of 4.2% in 2018. The deceleration resulted from a slowdown in non-agricultural production. Moreover, agricultural production diminished. The non-agricultural production increased by 2.5%, slowing down from 4.0% in 2018 due mainly to a drop in the manufacturing sector in line with the subsided international trade conditions and the China-United States trade war. However, the service sector showed a slower pace of growth, contributed mainly by a slow increase in the number of foreign tourists and cautious spending of households, which resulted unfavorably in accommodation and food service activities, trade, construction, and transportation. The agricultural production decreased due mainly to a decline in main crop yields in response to the unfavorable weather conditions despite the expansion in fishing production.

Gross Domestic Product (GDP) in 2019 at current market prices valued at 16,898,086 million baht. After deducting 622,512 million baht of net factor income from the rest of the world, Gross National Income (GNI) registered at 16,275,574 million baht, with an expansion of 4.5%. While per capita NI was 234,806 baht higher than 225,384 baht in 2018 or a 4.2% growth.



Domestic Demand: slowed down from 2018, attributed to a 4.0% rise in private final consumption expenditure, a 1.7% rise in government final consumption expenditure, and a 2.0% rise in investment, compared to 4.6%, 2.6%, and 3.8% in 2018, respectively. Supporting factors were from 1) lower household income, in particular farm and non-farm income, which resulted in lower household purchasing power 2) cautious spending of households according to the anxiety in domestic economic conditions, together with the China-United States trade war 3) a slowdown in commercial banks' loans for personal consumption 4) the decrease in construction investment and machinery and equipment investment of both public and private sectors, and 5) no new investment in large-scale projects from state enterprises.

External Sector: exports of goods and services at current market prices decreased by 5.3%, in contrast to a rise of 2.8% in 2018. Such a decrease mainly contributed to a 7.1% drop in merchandise exports despite a 0.6% rise in service receipts. For the import side, imports of goods and services at current market prices dropped by 7.6%. In particular, merchandise imports fell by 9.3%, and service payments decreased by 0.5%. Trade and services balance at current market prices valued a surplus of 1,578,846 million baht, attributed to 826,931 million baht for a trade surplus, compared to a surplus of 720,436 million baht in 2018 and 751,915 million baht for service surplus. However, net factor income recorded at a deficit of 622,512 million baht. Net current transfers recorded a surplus of 223,398 million baht. Ultimately, a current account registered a surplus of 1,179,732 million baht in 2019, increasing from a surplus of 912,131 million baht in 2018.

National Income (NI) or income from factors of production in 2019 recorded the value of 16,275,574 million baht, expanded by 4.5%. The expansion was found from compensation of employees, accounting for 31.7% of NI, with a rise of 2.4%. Meanwhile, net property income and operating income, accounting for 40.2% of NI, grew by 7.0%. Moreover, consumption of fixed capital, and net primary income from the rest of the world, accounting for 17.9% and 10.1% of NI, increased by 4.9% and 1.0%, respectively.

Gross Domestic Savings in 2019 registered the value of 5,190,016 million baht, increasing by 3.1%, improving from a fall of 0.2% in 2018. Overall net savings valued at 2,447,048 million baht increased by 1.6%, decelerating from 3.9% in 2018, contributed by the fall of net private sector saving, despite the expansion in net public sector saving.

Overall Economic Stability: recently, saving showed expansion, with a rise of 3.1%. Meanwhile, overall investment decreased by 2.7%. As a result, the saving-investment gap (equivalent to current account surplus) registered a surplus of 1,179,732 million baht, accounting for 7.0% of gross domestic product, compared to a surplus of 912,130 million baht in 2018.

GDP Implicit Price Deflator increased by 0.9%, decelerating from 1.4% in 2018. The agricultural price index grew by 3.3%, in contrast to a fall of 2.8% in 2018. Meanwhile, the non-agricultural price index rose by 0.7%, decelerating from 1.8% in 2018. Consumer prices index (CPI) increased by 0.7%, while producer prices index (PPI) fell by 1.0%.

Gross Domestic Product

GDP in 2019 expanded by 2.3% compared to a rise of 4.2% in 2018.

Gross domestic product in 2019 expanded by 2.3%, slowing down from 4.2% in 2018, due mainly to the non-agricultural sector with a rise of 2.5%, lower than 4.0% in 2018. Moreover, the agricultural sector dropped by 0.6%. The deceleration of the non-agricultural production contributed from the industrial sector growth remaining unchanged. Additionally, the service sector slowed down.

Agricultural production declined by 0.6%, in contrast to an increase of 5.8% in 2018. The contraction resulted from lower yields of paddy, sugarcane, and maize due to drought conditions since the middle of 2019, although cassava yield expanded. Livestock production also increased, driven by the higher production of chicken and cattle despite a decrease in swine production. Additionally, fishing production also built up, driven by marine fishing, but freshwater fishing dropped.

Non-agricultural production increased by 2.5%. The industrial sector growth leveled off, compared to a rise of 2.9% in 2018. The deceleration mainly contributed by manufacturing with a contraction of 0.7%, in contrast to an expansion of 3.4% in 2018 due to lower production in major industries such as motor vehicles; petroleum refinery; and computer, electronic and optical products as a consequence of the China-United States trade war. Meanwhile, the service sector expanded by 3.9%, lower than 4.7% in 2018. The service sector with slowdown growth included construction; wholesale and retail trade, repair of motor vehicles and motorcycles; accommodation and food service; and financial and insurance activities. However, the service sectors with a continual expansion were information and communication; and arts, entertainment, and recreation activities.

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

(%)

Economic activities	Real GDP growth			Structure at current prices		
	2017	2018	2019	2017	2018	2019
Agriculture	4.8	5.8	-0.6	8.4	8.2	8.1
Agriculture, forestry and fishing	4.8	5.8	-0.6	8.4	8.2	8.1
Non-agriculture	4.1	4.0	2.5	91.6	91.8	91.9
Mining and quarrying	-6.0	-2.9	1.7	2.5	2.5	2.4
Manufacturing	2.9	3.4	-0.7	27.0	26.7	25.6
Electricity, gas, steam and air conditioning supply	1.8	2.2	4.6	2.6	2.6	2.6
Water supply; sewerage, waste management and remediation activities	6.6	6.2	5.8	0.4	0.4	0.4
Construction	-3.0	2.3	1.6	2.5	2.5	2.5
Wholesale and retail trade; repair of motor vehicles and motorcycles	6.4	6.4	4.5	15.4	15.8	16.2
Transportation and storage	8.0	4.0	3.0	5.9	5.8	5.8
Accommodation and food service activities	10.8	7.9	7.8	5.3	5.6	6.1
Information and communication	3.9	8.4	12.3	2.3	2.4	2.6
Financial and insurance activities	6.7	3.6	2.2	7.6	7.6	7.5
Real estate activities	6.7	5.4	3.8	2.4	2.4	2.5
Professional, scientific and technical activities	6.3	2.8	1.7	1.8	1.7	1.7
Administrative and support service activities	3.1	3.2	2.8	1.6	1.6	1.6
Public administration and defence; compulsory social security	0.8	1.5	1.4	5.9	5.8	5.9
Education	0.4	1.0	1.2	4.1	4.0	4.0
Human health and social work activities	4.1	4.8	3.6	2.1	2.1	2.2
Arts, entertainment and recreation	12.1	12.2	14.4	0.6	0.6	0.7
Other service activities	4.8	4.2	3.0	1.3	1.3	1.3
Activities of households as employers	-2.8	-2.6	-0.6	0.2	0.2	0.2
Gross domestic product, (GDP)	4.2	4.2	2.3	100.0	100.0	100.0

Agricultural production decreased by 0.6% whilst the prices of the agricultural products improved.

Agricultural sector

Overall agricultural production decreased by 0.6%, in contrast to a rise of 5.8% in 2018. This decline was attributable to a 3.2% decrease in non-perennial crops, a 2.3% increase in perennial crops, a 0.7% increase in livestock production, a 1.8% decrease in agricultural service, a 3.3% decrease in forestry, and a 2.4% increase in fishing production. The prices of agricultural products increased by 3.3%, improving from a fall of 2.8% in 2018.

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

	(%)		
Sector	2017	2018	2019
Agriculture, forestry and fishery growth	4.8	5.8	-0.6
Non-perennial crops	5.2	8.0	-3.2
Perennial crops	8.2	5.5	2.3
Livestock	1.5	1.4	0.7
Agricultural services	6.8	0.0	-1.8
Forestry	-7.8	2.2	-3.3
Fishery	-2.9	4.2	2.4
Implicit price deflator growth	0.4	-2.8	3.3

Agriculture, forestry and fishing

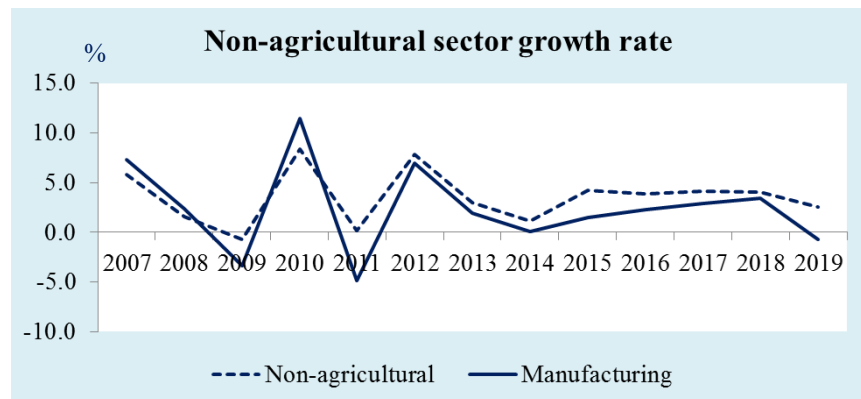
Total production decreased by 0.6%. Major production activities were as follows:

- **Non-perennial crops** decreased by 3.2%, due to the contraction in paddy, sugarcane, and maize with a fall of 5.1%, 16.0%, and 3.6%, respectively in line with drought conditions since the middle of 2019, although cassava yield expanded.
- **Perennial crops** increased by 2.3%. Yields of oil palm and other fruits increased by 7.8% and 3.4%, respectively, despite decreases in pineapple and rubber.
- **Livestock** increased by 0.7%, driven by higher production of chicken and cattle. Meanwhile, the production of swine decreased.
- **Agricultural services** decreased by 1.8% due to a decrease in planting and harvest services in line with reduced planting areas.
- **Forestry** decreased by 3.3% due to a contraction in firewood and charcoal production.
- **Fishing** increased by 2.4%, propelled by an expansion in marine fishery, however, freshwater fishery dropped.

Implicit prices of agricultural products grew by 3.3%, improving from a fall of 2.8% in 2018, resulting from rising prices of paddy, rubber, pineapple, other fruits, swine, and chicken. The prices of oil palm and sugarcane, however, declined.

Non-agricultural sector expanded by 2.5%.

Non-agricultural sector



Mining and quarrying

Mining and quarrying grew by 1.7%, improving from a drop of 2.9% in 2018. This expansion was attributable to a 2.1% increase in natural gas and crude oil production, in contrast to a fall of 3.0% in 2018. The natural gas and condensate production increased by 3.9%, improving from a fall of 1.1% in 2018, in line with higher production sources, namely Erawan group, Bongkot, South Bongkot, and Arthit. However, crude oil production decreased by 2.8%, compared to a decline of 8.4% in 2018, due to lower production sources, namely the Erawan group, Jasmine-Banyen, Bualuang and Nongyao. Moreover, the quarrying of stone, sand, and clay declined by 3.3%, in contrast to a rise of 7.3% in 2018.

Manufacturing

Manufacturing decreased by 0.7%, resulting from a contraction in export-oriented manufacturing products, namely motor vehicles; computer electronic and optical products. Meanwhile, production of chemical and chemical products, food products, basic pharmaceutical products and pharmaceutical preparations, and other transport equipment increased in response to domestic and external demand from trading partners.

Manufacturing with a contraction

- **Food products** declined by 2.6%, in contrast to a rise of 7.7% in 2018, due to lower manufacture of starch, sugar, processed and preserved meat, and processing and preserving of fruit and vegetables together with decelerations in the manufacture of milk and vegetable oil.
- **Cigarette** declined by 7.2%, driven by all type of products with an exception of pipe tobacco.
- **Textile** declined by 7.4%, continually decreasing from 2018. The contraction was found in almost all activities, except for the manufacture of fabric printing and silk, which showed increasing growth.
- **Wearing apparel** declined by 2.1%, in contrast to a rise of 4.1% in 2018. The manufacture of other wearing apparel such as cap and shawl declined, together with a slowdown in the manufacture of the jackets in response to external demand.
- **Paper and paper products** declined by 0.1%, led by the pulp, paper, and paperboard according to lower demand from downstream industry.
- **Printing** declined by 1.9% due to lower demand for several printings, including newspapers and magazines. Service activities related to printing also decreased.

- **Petroleum refinery** declined by 4.2% in response to domestic demand.
- **Rubber and plastic products** declined by 4.5%, continually decreasing from 2018, due to lower exports of the block rubber and rubber sheets together with contractions of plastic articles for the packaging of goods, and rubber tyres for vehicles.
- **Basic metals** declined by 9.3%, in contrast to a rise of 0.3% in 2018. The contraction resulted from lower production of all types of products in response to demand from downstream industries.
- **Machinery and equipment** declined by 0.5%, in contrast to a rise of 5.1% in 2018, due mainly to the decrease in agricultural machinery. Manufacture of industrial machinery slowed down despite a continual expansion in the manufacture of machinery for food.
- **Motor vehicles** declined by 5.1%, in contrast to a rise of 9.0% in 2018, in response to lower external demand and weakened domestic demand. The manufacture of parts and accessories for motor vehicles also declined.
- **Furniture** declined by 1.3%. The manufacture of metal furniture decreased despite a slight increase in wooden furniture in response to domestic demand.
- **Other manufacturing** declined by 0.1% due to lower external demand for gems and jewelry. Other manufacturing, including musical instruments, sporting goods, and medical equipment, also declined.

Manufacturing with an expansion

- **Beverages** increased by 9.7%, improving from a decrease of 4.0% in 2018, propelled by the manufacture of liquor, beer, soft drink and soda, and wine. The manufacture of energy drinks and drinking water slowed down.
- **Leather and other products** increased by 3.9%, compared to 5.0% in 2018. The manufacture of luggage and rubber footwear increased despite decreases in tanning and dressing of leather and leather footwear.
- **Wood and products of wood** increased by 2.1% due to higher demand for construction and wooden products.
- **Chemical and chemical products** increased by 1.6%, compared to 4.4% in 2018. This deceleration originated from the manufacture of fertilizer and the manufacture of cosmetics. Meanwhile, the petrochemical industry decreased in response to demand from downstream industries and external demand.
- **Basic pharmaceutical products and pharmaceutical preparation** increased by 8.2%, slowing down from 11.6% in 2018, in response to domestic demand.
- **Non-metallic mineral products** increased by 3.1%, owing to a continual expansion in concrete for use in construction.
- **Fabricated metal products** increased by 1.3%, decelerating from 2018. The expansion was attributable to decreases in the manufacture of structural metal products for construction, and cans, despite an increase in the manufacture of tanks.
- **Computer, electronic and optical products** increased by 0.2%, slowing down from 2018. The deceleration was seen in the manufacture of computer, telecommunication equipment, and electronic boards in line with external demand. The production of watches and clocks, however, increased.
- **Electrical equipment** increased by 4.8%. The manufacture of electrical equipment such as bulbs, electrical wire, and battery increased, despite decreases in domestic appliances, including electrical fan, refrigerator, washing machine, and electrical motor.
- **Other transport equipment** increased by 3.1%, continually rising from 2018, propelled by domestic and external demand for motorcycles.

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

	Growth rate (real term)			Structure at current prices		
	2017	2018	2019	2017	2018	2019
Food products	0.7	7.7	-2.6	14.4	14.3	14.1
Beverages	0.7	-4.0	9.7	6.6	6.3	7.2
Tobacco products	-16.9	-16.6	-7.2	1.0	0.8	0.8
Textiles	-3.5	-3.0	-7.4	2.6	2.4	2.2
Wearing apparel	-3.1	4.1	-2.1	2.3	2.3	2.4
Leather and related products	4.4	5.0	3.9	1.1	1.1	1.1
Wood and products of wood and cork	7.2	-3.8	2.1	1.1	1.1	1.1
Paper and paper products	1.1	3.5	-0.1	1.3	1.3	1.3
Printing and reproduction of recorded media	1.6	2.6	-1.9	0.3	0.3	0.3
Coke and refined petroleum products	4.9	4.2	-4.2	10.5	11.4	11.4
Chemicals and chemical products	4.6	4.4	1.6	8.5	9.0	8.6
Basic pharmaceutical products and pharmaceutical preparations	6.8	11.6	8.2	1.0	1.1	1.2
Rubber and plastics products	8.4	-4.0	-4.5	7.8	6.9	6.6
Non-metallic mineral products	-0.6	2.8	3.1	3.4	3.4	3.6
Basic metals	4.5	0.3	-9.3	1.6	1.6	1.4
Fabricated metal products, except machinery and equipment	7.2	6.7	1.3	3.1	3.1	3.2
Computer, electronic and optical products	10.2	5.8	0.2	9.1	9.1	9.0
Electrical equipment	-3.9	2.2	4.8	4.6	4.5	4.7
Machinery and equipment not elsewhere classified	8.8	5.1	-0.5	4.2	4.2	4.2
Motor vehicles, trailers and semi-trailers	2.1	9.0	-5.1	8.2	8.7	8.4
Other transport equipment	-1.7	2.1	3.1	2.6	2.5	2.6
Furniture	7.3	0.1	-1.3	0.8	0.8	0.8
Other manufacturing	-0.6	3.1	-0.1	3.8	3.7	3.8
Repair and installation of machinery and equipment	-1.6	17.3	2.9	0.0	0.1	0.1
Total value added	2.9	3.4	-0.7	100.0	100.0	100.0

Electricity, gas and air conditioning supply

Electricity, gas, and air conditioning supply grew by 4.6%, accelerating from 2.2% in 2018. The expansion was attributable to an increase in electric power generation with a growth of 5.0% in response to productions 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 by users, the expansion in electricity consumption was from residential customers, small and medium scale enterprises, and special enterprises. However, large-scale enterprises reduced electricity consumption. Gas separation increased by 1.3%, improving from a fall of 1.6% in 2018.

Electricity and gas supply growth (real term)

(%)

Items	2017	2018	2019
Electricity	1.3	2.7	5.0
Gas separate plant	7.6	-1.6	1.3
Total	1.8	2.2	4.6

Electricity consumption growth and consumption structure

(%)

Items	2017	2018	2019
Consumption growth	1.3	1.4	2.8
Residential	1.0	1.9	8.8
Small enterprises	1.2	1.7	4.9
Medium enterprises	0.7	2.3	2.7
Large enterprises	2.1	0.6	-1.3
Special enterprises	0.2	2.3	4.8
Others	-3.2	2.4	-5.3
Consumption structure	100.0	100.0	100.0
Residential	24.6	24.8	26.2
Small enterprises	11.6	11.7	11.9
Medium enterprises	16.6	16.7	16.7
Large enterprises	41.7	41.4	39.7
Special enterprises	3.5	3.5	3.6
Others	1.9	2.0	1.8

Water supply; sewerage, waste management and remediation activities

Water supply; sewerage, waste management and remediation activities grew by 5.8%, compared to 6.2% in 2018. Water supply; waste collection, and materials recovery grew by 4.9%; and 8.4%, compared to 3.4%; and 14.6% in 2018, respectively.

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

(%)

Items	2017	2018	2019
Water supply	4.9	3.9	4.9
Waste collection and Materials recovery	12.5	14.6	8.4
Total	6.6	6.2	5.8

Construction

Construction increased by 1.6%, slowing down from 2.3% in 2018, mainly contributed by the deceleration in private sector construction, meanwhile public sector construction showed favorable expansion. The deceleration of private sector construction mostly caused by a slowdown in other construction, particularly from the on-going projects and no construction of large-scale new projects, while dwelling construction decreased. The expansion of public sector construction was driven by the construction of the general government, particularly the construction of roads and bridges. However, state enterprise construction showed a slower pace of growth due mainly to carrying out the construction of on-going projects, namely the Orange line project (Thailand Cultural Centre - Min Buri) of the Mass Rapid Transit Authority of Thailand, the construction of Electricity Power Transmission System of the Provincial Electricity Authority (PEA), the Construction of the Electricity Distribution Assets of the Metropolitan Electricity Authority (MEA), and Water Pipelines Construction Project of the Provincial Waterworks Authority (PWA).

Wholesale and retail trade; repair of motor vehicle and motorcycles

Wholesale and retail trade; repair of motor vehicle and motorcycles grew by 4.5%, lower than 6.4% in 2018, due mainly to a deceleration in sales of motor vehicles and motorcycles in response to domestic demand. Additionally, wholesale and retail trade also slowed down in line with household spending, the number of foreign tourists, meanwhile imported goods diminished.

Transportation and storage

Transportation and storage increased by 3.0%, lower than 4.0% in 2018. The deceleration contributed from land, water, and air transport services, which grew by 2.1%, 0.6%, and 0.1%, compared to 2.2%, 4.0%, and 0.3% in 2018, respectively. The slowdown in all transport modes was attributable to a deceleration in passenger transport in response to the number of foreign tourists and a slowdown in freight transport in line with agricultural and manufacturing production. Meanwhile, postal and courier activities grew by 17.7%, higher than 17.0% in 2018, in response to private operators' turnover.

Accommodation and food service activities

Accommodation and food service activities increased by 7.8%. Accommodation services grew by 6.7%, slowing down from 7.1% in 2018, resulting from the deceleration in the number of foreign tourists, which grew by 4.2%, lower than 7.3% in 2018. The number of East Asia tourists increased by 4.9%, which were mostly from China. Similarly, the number of tourists from America and South Asia increased, despite slowdowns from Europe, the Middle East, and Africa. Additionally, food and beverage services also expanded by 8.7%, propelled by an economic stimulus package from the government, Chim Shop Chai, in the last quarter of 2019.

Information and communication

Information and communication increased by 12.3%, higher than 8.4% in 2018, driven by telecommunication activities; and programming and broadcasting activities with a rise of 20.6%, and 0.9%. Computer programming and consultancy activities increased by 1.3%, following 4.1% in 2018. Motion picture, video and television programme activities; sound recording and music publishing activities also grew by 1.5%, compared to 2.2% in 2018.

Real estate activities

Real estate activities increased by 3.8%, compared to 5.4% in 2018. The expansion was attributable to an increase in real estate activities with own property for dwelling with a growth of 4.5%. Meanwhile, real estate broker activities declined by 2.3%, in contrast to a rise of 6.8% in 2018.

Financial and insurance activities

Financial and insurance activities increased by 2.2%, decelerating from 3.6% in 2018. The deceleration resulted from weakened performances of commercial banks, other depository institutions, and insurance. However, the businesses of other financial services generally declined. Furthermore, the fee-income and net interest margin on loans and deposits increased while the volume of credits and deposits decelerated in line with a slowdown performance in commercial banks. For insurances, life insurances slowed down, while non-life insurances maintained steady. According to a decreased performance in other financial services, the main factor was the contraction in the turnover in the Stock Exchange of Thailand and commission sales in security companies.

Professional, scientific and technical activities

Professional, scientific and technical activities increased by 1.7%, slowing down from 2.8% in 2018, due mainly to decelerations in activities of head offices; management consultancy, and 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 increased by 2.8%, lower than 3.2% in 2018, contributed by the slowdown in activities of renting of machinery and office equipment for construction and civil engineering; activities of renting of the personal motor vehicle; activities of other employment placement agencies, and travel agency and tour operator in line with the number of foreign tourists. However, activities of general cleaning of the building; activities of office administrative, office support and other business support; and activities of security and investigation expanded.

Education

Education increased by 1.2%, compared to 1.0% in 2018. Public education increased by 1.2%, meanwhile private education grew by 0.9%, in line with the number of students in formal vocational education, private universities, and special education.

Human health and social work activities

Human health and social work activities increased by 3.6%, slowing down from 4.8% in 2018. Human health activities grew by 2.7%, compared to 3.6% in 2018. Meanwhile, dental practice and social work activities slowed down.

Art, entertainment and recreation

Art, entertainment, and recreation increased by 14.4%, higher than 12.2% in 2018. This expansion was attributable to government lottery activities with a growth of 19.2%, moreover the favorable increases in sports activities; creative, arts and entertainment, and other amusement and recreation activities.

Other service activities

Other service activities increased by 3.0%, decelerating from 4.2% in 2018. The expansion was from personal service activities, which increased by 1.8%, slowing down from 5.0% in 2018. However, activities of membership organizations declined by 0.1%, in contrast to a rise of 3.9% in 2018, resulting from activities of business employers membership organizations, activities of trade unions, activities of religious organizations, and activities of political organizations. However, repair of computers, and personal and household goods rose by 5.0%, higher than 3.6% in 2018, propelled by repair of household appliances, and repair of other personal and household goods.

Expenditure on Gross Domestic Product

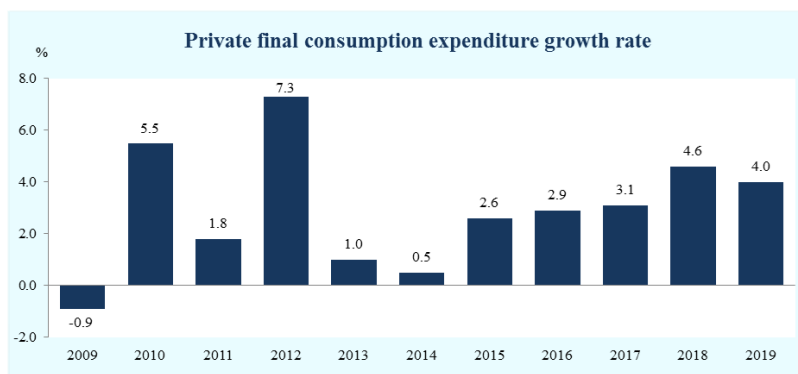
Private final consumption expenditure in 2019 increased by 4.0%.

Composition of private final consumption expenditure

Private final consumption expenditure (PFCE) in 2019 increased by 4.0%, slowing down from 4.6% in 2018.

Private final consumption expenditure decelerated from 2018, mainly contributed by household caution about their spending. The key factor was the economic slowdown, which caused the reduction in household income in both agricultural and non-agricultural sectors. Additionally, the consumer confidence index stood at 75.5%, lower than 80.9% in 2018. Meanwhile, personal credit loans from commercial banks continued to decline. Nevertheless, the factors which supported the expansion included the low level of the inflation rate and the unemployment rate. Furthermore, the government's welfare card program and other economic stimulus schemes to stimulate economic growth in the short term supported household's purchasing power at the end of the year.

Spending on durable goods, semi-durable goods and net services increased by 2.3%, 2.7% and 5.8%, compared to 10.0%, 4.0%, and 6.8% in 2018, respectively. Particularly, spending on durable goods decelerated, owing to a slowdown in spending on personal vehicles. Nonetheless, spending on non-durable goods rose by 3.0%, accelerating from 1.7% in 2018, in line with expenses on food and non-alcoholic beverages, alcoholic beverages and tobacco, and dwelling.



Private final consumption expenditure in the domestic market-excluding residents abroad grew by 3.7%, compared to 3.8% in 2018. It comprised household final consumption expenditure with a rise of 3.7%, and the final consumption expenditure of non-profit institutions serving households with a rise of 2.8%.

Private final consumption expenditure in the domestic market-excluding the expenditure of non-residents in the country and the expenditure of residents abroad expanded by 4.3%, compared to 4.4% in 2018. Meanwhile, private final consumption expenditure in the domestic market-including the expenditure of residents abroad declined by 3.2%, thus private final consumption expenditure expanded by 4.0%, slowing down from 4.6% in 2018.

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

(%)

Item	Growth rate (real term)			Structure at current prices		
	2017	2018	2019	2017	2018	2019
PCE in domestic market	5.2	3.8	3.7	118.2	117.3	117.0
less: expenditure of non – residents in the country	16.9	1.5	0.9	22.5	21.7	21.1
PCE excluding expenditure of non-residents	2.8	4.4	4.3	95.8	95.6	95.9
plus: expenditure of residents abroad	10.1	8.7	-3.2	4.2	4.4	4.1
PCE	3.1	4.6	4.0	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 increased by 2.5%, rising from 2.2% in 2018. Food items rose by 2.3%, compared to 2.1% in 2018, mainly contributed by the expansion in consumption of bread and cereals, meat, seafood, vegetables, sugar, and other food products. Spending on non-alcoholic beverages grew by 3.7%, accelerating from 3.1% in 2018, particularly spending on coffee, tea, and cocoa.

Alcoholic beverages and tobacco increased by 2.1%, accelerating from a fall of 1.9% in 2018. Alcoholic beverage consumption expanded by 3.5%, improving from a decline of 2.6% in 2018 due to increased sales volume in liquor, beer, and wine. Nevertheless, tobacco consumption decreased by 0.1%, improving from a decrease of 0.9% in 2018 due to sale volumes of cigarettes from the Tobacco Authority of Thailand.

Clothing and footwear increased by 1.8%, rising from 1.2% in 2018. Such expansion contributed from expenditures on clothing and footwear with rises of 1.7% and 2.3%, compared to 1.1% and 2.0% in 2018, respectively.

Housing, water, electricity, gas and other fuels increased by 4.1%, compared to 3.2% in 2018. A rental for housing, electricity consumption, expenses on gases and other fuels, and household water supply consumption expanded by 7.2%, 6.5%, and 4.3%, compared to 6.1%, 1.5%, and 1.9% in 2018, respectively.

Furnishing, household equipment and routine maintenance of the house increased by 3.1%, slowing down from 5.1% in 2018 due to spending on household equipment and routine maintenance, household textiles, glassware, tableware and household utensils with a growth of 2.3%, 2.0%, and 3.0%, decelerating from 7.4%, 6.2%, and 8.1% in 2018, respectively. Moreover, the purchase of goods and services for routine household maintenance slightly decelerated from 2018.

Health increased by 5.1%, compared to 5.3% in 2018. An expenditure of outpatient services and hospital services grew by 3.0% and 4.4%, slowing down from 5.7% and 7.4% in 2018, respectively; whereas, expenses on other medical products rose by 6.5%, compared to 3.2% in 2018.

Transport increased by 1.2%, decelerating from 5.9% in 2018. A considerable deceleration resulted from spending on vehicle purchases with a rise of 0.5%, compared to 13.2% in 2018, in response to lower vehicle sales volume. Moreover, expenses on personal transport equipment and transport services expanded by 1.1% and 2.0%, compared to 1.8% and 3.6% in 2018, respectively.

Communication increased by 3.4%, slowing down from 4.8% in 2018. Postal services grew by 1.9%, compared to 3.1% in 2018 in response to the entrepreneurs' turnover and a deceleration in spending on postal services. Furthermore, spending on telephone services slowed to 3.5%, compared to 5.1% in 2018. Consequently, the overall perspective of communication consumption showed a slower pace of growth.

Recreation and culture increased by 2.6%, decelerating from 4.8% in 2018. Spending on recreational and cultural services grew by 3.4%, decelerating from 8.2% in 2018. In addition, spending on newspapers and periodicals decreased by 1.3%, compared to a decline of 1.2% in 2018.

Education increased by 3.9%, slowing down from 5.1% in 2018 as a result of the slowdown in spending on higher education, including the decline in spending on pre-primary education, primary education, and secondary education.

Restaurants and hotels increased by 7.6%, accelerating from 4.3% in 2018 as a consequence of expenditure on restaurants and hotels services with a growth of 8.6% and 6.0%, compared to 5.8% and 2.0% in 2018, respectively.

Miscellaneous goods and services increased by 4.0%, decelerating from 5.7% in 2018. The slowdown was mainly attributable to the spending on personal effects, insurance, and other services with a growth of 5.4%, 1.2%, and 3.0%, compared to 10.7%, 8.2%, and 4.7% in 2018, respectively. However, spending on personal care grew by 6.7%, accelerating from 1.9% in 2018.

PFCE by durability of 4 factors

Non-profit institutions serving households consumption expenditure increased by 2.8%, compared to 1.1% in 2018 due to the expenditure of social protection and other services with a growth of 2.3% and 3.5%, accelerating from 1.3%, and 0.1% in 2018, respectively.

Private consumption expenditure classified by durability 4 categories

Durable goods increased by 2.3%, slowing down from 10.0% in 2018. The main factor was spending on vehicle purchases with a growth of 0.5%, compared to 13.2% in 2018. Moreover, expenses on furniture and furnishings, therapeutic appliances and equipment, and personal jewelry grew by 2.4%, 8.6%, and 3.6%, decelerating from 8.0%, 10.5%, and 10.2% in 2018, respectively.

Semi-durable goods increased by 2.7%, slowing down from 4.0% in 2018. The deceleration was from spending on other articles of clothing and clothing accessories, household textiles, and recording media with a rise of 4.8%, 2.0%, and 1.3%, decelerating from 10.4%, 6.2%, and 5.2% in 2018, respectively. Moreover, spending on spare parts and accessories for personal transport equipment grew by 2.0%, decelerating from 2.7% in 2018.

Non-durable goods increased by 3.0%, accelerating from 1.7% in 2018. The expansion was from the spending on the consumption of food items increased by 2.3%, compared to 2.1% in 2018. Furthermore, spending on alcoholic beverages and tobacco expanded by 2.1%, accelerating from a decline of 1.9% in 2018. Moreover, spending on other medical products grew by 6.3%, accelerating from 1.5% in 2018.

Services increased by 5.8%, slowing down from 6.8% in 2018. The sluggish growth was from the expense on transport services, medical services, and life insurance with rises of 2.0%, 3.5%, and 1.0%, lower than 3.6%, 7.4%, and 8.4% in 2018, respectively. Nevertheless, PFCE excluding the expenditure of non-residents in the country rose by 0.9%, compared to 1.5% in 2018, due mainly to the number of foreign tourists with slow expansion. Meanwhile, PFCE including the expenditure of residents abroad decreased by 3.2%. Therefore, domestic net services consumption for Thai residents in 2019 showed slow growth.

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

	Growth rate (%)			Structure (%)		
	2017	2018	2019	2017	2018	2019
By purpose (COICOP)						
Food and non-alcoholic beverages	2.3	2.2	2.5	27.2	26.1	26.3
Alcoholic beverages, tobacco and narcotics	-0.6	-1.9	2.1	3.8	3.6	3.4
Clothing and footwear	2.2	1.2	1.8	4.9	4.8	4.7
Housing, water, electricity, gas and other fuels	4.2	3.2	4.1	10.1	10.0	10.0
Furnishings, household equipment and routine maintenance of the house	3.1	5.1	3.1	4.5	4.5	4.4
Health	3.1	5.3	5.1	5.2	5.2	5.2
Transport	8.3	5.9	1.2	15.8	16.2	15.7
Communications	6.1	4.8	3.4	2.3	2.3	2.3
Recreation and culture	6.7	4.8	2.6	6.4	6.4	6.3
Education	2.8	5.1	3.9	1.5	1.5	1.4
Restaurants and hotels	10.6	4.3	7.6	20.3	20.4	21.0
Miscellaneous goods and services	5.6	5.7	4.0	14.3	14.4	14.4
Individual consumption expenditure of Non-profit institutions serving households (NPISHs)	1.8	1.1	2.8	2.0	1.9	1.9
plus: Expenditure of residents abroad	10.1	8.7	-3.2	4.2	4.4	4.1
less: Expenditure of non-residents in the country	16.9	1.5	0.9	22.5	21.7	21.1
Private consumption expenditure	3.1	4.6	4.0	100.0	100.0	100.0
By durable appearance						
Durable goods	13.5	10.0	2.3	9.5	9.9	9.7
Semi-durable goods	2.8	4.1	2.7	9.1	8.9	8.7
Non-durable goods	2.3	1.7	3.0	45.0	43.8	43.7
Services	1.6	6.8	5.8	36.4	37.4	37.9

Composition of general government final consumption expenditure

General government final consumption expenditure in real terms increased by 1.7%.

General government final consumption expenditure at current market prices recorded a value of 2,734,485 million baht with an increase of 3.3%, lower than 4.9% in 2018. Thoroughly, government compensation of employees valued at 1,521,079 million baht, or a rise of 4.0%, lower than 4.3% in 2018. The deceleration was partially due to the falloff in wages and other personnel expenses. Moreover, purchases from enterprises and abroad recorded a value of 810,567 million baht, an increase of 2.0%, lower than 10.9% in 2018. Consumption of fixed capital recorded a value of 310,087 million baht with a 3.1% increase. Social transfers in kind – purchased market production recorded a value of 278,493 million baht with a rise of 4.1%.

By the functions of government, total general government final consumption at current market prices recorded a value of 2,734,485 million baht, consisting of education services with a 28.7% share of general government final consumption expenditure. The remains of government services by function comprised 17.9% share for health services, 14.1% share for general public services, 12.5% share for economic affair, 10.9% share for defence, 8.8% share for public order and safety, 7.1% share for remains of instance housing and community amenities, recreation, culture and religion, environmental, and social protection.

General government final consumption expenditure in real terms grew by 1.7%, due to a 1.5% rise in compensation of employees, 2.2% in purchases from enterprises and abroad, 3.2% in social transfers in kind – purchased market production, and 1.6% in consumption of fixed capital. Lastly, purchases by households and enterprises increased by 4.6%.

Gross capital formation

Gross capital formation consists of gross fixed capital formation and the change in inventories. In 2019, gross capital formation at current market prices recorded the value of 4,010,284 million baht, comprising 3,805,464 million baht of gross fixed capital formation and 204,820 million baht of the change in inventories.

Gross fixed capital formation in real terms grew by 2.0%, compared to 3.8% in 2018. The deceleration was due to the weakened investment of both private and public sectors. The private sector grew by 2.7%, slowing down from 4.1% in 2018, and the public sector expanded by 0.1%, lower than 2.8% in 2018.

Investment (by type of institutions)

	Value at current market prices (Million of Bath)			Growth rate (real term) (%)		
	2017	2018	2019	2017	2018	2019
Construction	1,212,414	1,268,279	1,297,281	-2.1	3.2	1.7
Private	526,729	561,595	571,075	-0.9	4.9	0.9
Public	685,685	706,684	726,206	-3.0	1.8	2.3
Equipment	2,366,763	2,456,692	2,508,183	4.0	4.1	2.2
Private	2,126,771	2,205,636	2,271,616	4.0	3.9	3.1
Public	239,992	251,056	236,567	3.7	5.7	-6.1
Investment	3,579,177	3,724,971	3,805,464	1.8	3.8	2.0
Private	2,653,500	2,767,231	2,842,691	3.0	4.1	2.7
Public	925,677	957,740	962,773	-1.3	2.8	0.1

Private Investment

Private investment at current market prices in 2019 recorded the value of 2,842,691 million baht, consisting of 571,075 million baht of private construction and 2,271,616 million baht of private machinery and equipment.

In real terms, the private investment increased by 2.7%, compared to 4.1% in 2018. This slowdown originated from construction and machinery and equipment.

Private Investment

	Value at current market prices (Million of Bath)			Growth rate (real term) (%)		
	2017	2018	2019	2017	2018	2019
Construction	526,729	561,595	571,075	-0.9	4.9	0.9
Residential	297,375	313,067	309,458	0.1	3.6	-2.9
Non-residential	150,369	154,736	165,039	0.3	1.4	3.2
Others	61,007	74,370	77,657	-8.0	19.7	10.7
Cost of ownership transfer	17,978	19,422	18,921	-0.8	6.5	6.8
Machinery and equipment	2,126,771	2,205,636	2,271,616	4.0	3.9	3.1
Private Investment	2,653,500	2,767,231	2,842,691	3.0	4.1	2.7

Private construction at current market prices recorded the value of 571,075 million baht, consisting of 309,458 million baht of the residential building, 165,039 million baht of non-residential building, and 77,657 million baht of other building constructions. In real terms, private construction grew by 0.9%, slowing down from 4.9% in 2018, which can be described the contributors in each specific sectors as followed: the residential building with a fall of 2.9%, non-residential building with a rise of 3.2%, other construction with 10.7%, and cost of ownership transfer with 6.8%, compared to 3.6%, 1.4%, 19.7%, and 6.5% in 2018, consecutively.

Private investment in equipment and machinery at current market prices recorded the value of 2,271,616 million baht. In real terms, it increased by 3.1%, slowing down from 3.9% in 2018. The deceleration was from the slowdown in industrial machinery and vehicle equipment investment due to domestic production. Moreover, the number of newly-registered vehicles under the Motor Vehicle Act and the Land Transport Act diminished. On the other hand, the investment in office equipment and other vehicle were increasing, following the higher imports of office equipment and sky trains in 2019.

Public Investment

Public investment at current market prices recorded the value of 962,773 million baht, consisting of 726,206 million baht of construction and 236,567 million baht of machinery and equipment. In real terms, public investment grew by 0.1%, compared to 2.8% in 2018, resulting from a continual increase in construction despite a fall in machinery and equipment.

Public Investment

	Value at current market prices (Million of Bath)			Growth rate (real term) (%)		
	2017	2018	2019	2017	2018	2019
Construction	685,685	706,684	726,206	-3.0	1.8	2.3
Residential	15,368	15,167	17,374	-5.2	-2.8	12.7
Non-residential	133,582	134,741	139,026	3.5	-0.1	0.2
Others	536,735	556,776	569,806	-4.4	2.4	2.5
Machinery and equipment	239,992	251,056	236,567	3.7	5.7	-6.1
Public investment	925,677	957,740	962,773	-1.3	2.8	0.1

Public construction at current market prices recorded the value of 726,206 million baht, comprising 17,374 million baht of the residential building, 139,026 million baht of non-residential building, and 569,806 million baht of other constructions. In real terms, public construction grew by 2.3%, compared to 1.8% in 2018. The expansion came from a 1.0% rise in government construction, recovering from a fall of 1.8% in 2018. The increase was stimulated by the accelerated disbursement on the investment of land and building items. Concurrently, the state enterprise construction expanded by 4.7%, compared to 9.6% in 2018 due to carrying out the on-going projects, namely the Orange line project (Thailand Cultural Centre - Min Buri) of the Mass Rapid Transit Authority of Thailand, the Construction of Electricity Power Transmission System of the Provincial Electricity Authority (PEA), the Construction of the Electricity Distribution Assets of the Metropolitan Electricity Authority (MEA), and Water Pipelines Construction Project of the Provincial Waterworks Authority (PWA).

Public investment in machinery and equipment at current market prices recorded the value of 236,567 million baht. In real terms, it dropped by 6.1%, in contrast to 5.7% in 2018. Such contraction came from a reduction in government investment of machinery and equipment items; and no large-scale new projects from state enterprise investment.

Investment (by type of assets)

	Value at current market prices (Million of Bath)			Growth rate (Real term) (%)		
	2017	2018	2019	2017	2018	2019
Tangible fixed assets	3,442,806	3,580,779	3,671,006	1.7	3.8	1.9
Residential	312,743	328,234	326,832	-0.2	3.3	-2.2
Non-residential	811,326	843,311	879,285	-2.1	2.2	2.6
Machinery and equipment	2,311,151	2,398,923	2,453,253	3.4	4.4	2.2
Cultivated assets	7,586	10,311	11,636	22.3	21.6	12.6
Intangible fixed assets	118,393	124,770	115,537	6.0	1.7	3.1
Mineral exploration	68,805	75,725	70,666	1.3	3.4	9.6
Software	49,588	49,045	44,871	12.8	-0.5	-7.0
Cost of ownership transfer	17,978	19,422	18,921	-0.8	6.5	6.8
Investment	3,579,177	3,724,971	3,805,464	1.8	3.8	2.0

Investment classified by type of assets

Tangible fixed assets at current market prices recorded the value of 3,671,006 million baht, consisting of 326,832 million baht of residential building construction, 879,285 million baht of non-residential building construction, 2,453,253 million baht of machinery and equipment, and 11,636 million baht of cultivated assets. In real terms, the investment in tangible fixed assets grew by 1.9%, compared to 3.8% in 2018, owing to the reduction of 2.2% in residential building construction, compared to 3.3% in 2018. Meanwhile, non-residential building construction rose by 2.6%, improving from 2.2% in 2018. Moreover, investment in machinery and equipment, and cultivated assets grew by 2.2%, and 12.6%, slowing down from 4.4%, and 21.6% in 2018, respectively.

Intangible fixed assets at current market prices recorded the value of 115,537 million baht, comprising 70,666 million baht in mineral exploration and 44,871 million baht in computer software. In real terms, the investment in intangible assets rose by 3.1%, improving from 1.7% in 2018, mainly contributed by a 9.6% expansion in the expense of mineral exploration, rising from 3.4% in 2018.

Costs of ownership transfer at current market prices recorded the value of 18,921 million baht. In real terms, it increased by 6.8%, compared to 6.5% in 2018.

Change in inventories

Change in inventories at current prices increased with the value of 204,820 million baht in 2019. The accumulated stock covered agricultural products and manufacturing products, while the stock level of rice, crude oil, and gold decreased. The increase in the stock level of agriculture products included paddy, rubber, and cassava. Meanwhile, the accumulated stock of manufacturing products included electronic components and boards, motor vehicles, and engines and turbines. In particular, the stock level of electronic components and boards has piled up due to the slowdown of partner countries' economies, especially, the United States of America, the European Union, and Japan. Besides, protectionist trade policies between the United States and China resulted in the contraction in the exports of electronic products. The stock of motor vehicles increased due to the deceleration in the exports, the decrease in domestic demands according to the domestic economic situation, along with the stringent measure of financial institutions in an auto loan approval. Meanwhile, the decline in the stock of manufacturing products covered plastics and synthetic rubber in primary forms, computers and peripheral equipment, and manufacture of coffee, tea and herb. The gold inventory decreased due to higher export in response to the rising price of gold in the world market.

External Sectors

Both exports of goods and services decreased.

Exports of goods and services

Exports of goods and services at current market prices in 2019 disclosed the value at 10,052,248 million baht, diminished by 5.3%, in contrast to a rise of 2.8% in 2018. The decrease was mainly contributed by lower export goods and a continual slowdown in the export receipt.

Merchandise exports at current market prices exposed the value at 7,534,817 million baht, fell by 7.1%, due to a decrease in exports of agriculture, fishery and manufacturing products. Agricultural products decreased, mainly resulting from a reduction in rice exports due to higher price than other export countries. Moreover, China, a high rice's stock country, offloaded tonnes of rice in African markets. Rubber exports dropped in line with lower demand from China, the largest importer. Additionally, rubber export quantity was limited due to implementation of rubber export restriction by the International Tripartite Rubber Council (Thailand, Indonesia and Malaysia). However, exports of fruits greatly expanded in response to higher demand in durians, longans, and mangosteens from China. Manufacturing products exports declined from the reduction in many major products. The decrease in refined fuels originated from lower exports to CLMV countries, major export market. Sluggish global electronic market led to declining in electronic products export. Furthermore, other major manufacturing products, for example, machinery, petro-chemical and vehicles also lessened. On the contrary, air-conditioner, one of the major manufacturing products, was principally boosted from exports to Vietnam and U.S.A markets. The increase was partly supported by the expansion in real estate activities in Vietnam, and higher demand from the U.S.A. Additionally, the acceleration of gold exports kept overall exports from deeper diminution level. Meanwhile, export quantity subtracted by 3.7%, in contrast to a rise of 3.8% in 2018, whereas export prices decreased by 3.6%.

Service receipts at current market prices valued at 2,517,431 million baht, expanded by 0.6%. The expansion resulted from travel, most principal service receipts, due to the rising number of foreign tourists. Furthermore, other business service weakened.

Imports of goods and services declined.

Imports of goods and services

Imports of goods and services at current market prices in 2019 presented the value of 8,473,402 million baht, dropped by 7.6%, in contrast to a rise of 9.2% in 2018. This contraction originated from the decline in both imports of goods and service receipts.

Merchandise imports at current market prices showed the value of 6,707,886 million baht, contracted by 9.3%, in contrast to a rise of 8.5% in 2018. Diminishing in consumer goods principally derived from non-durable goods especially animal and fishery products. A reduction in manufacturing production, especially in export-oriented industries resulted in lower raw material and intermediate goods imports, particularly in integrated circuits and computer parts. Moreover, crude oil import value also decreased in line with the lower global oil price. Capital goods import subtracted largely in machinery and communication equipment in accordance with the slowdown in machinery and equipment investment. Furthermore, the overall import quantity and import prices were also declined at a rate of 5.8%, and 3.7%, respectively.

Service payments at current market prices valued at 1,765,516 million baht, dropped by 0.5%. The contraction mainly contributed by lower freight payment, in line with the international trade situation. Moreover, the travel payment declined. On the other hand, other business service payment continually increased.

Trade and services balance and current account

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

Trade and services balance at current market prices revealed a surplus of 1,578,846 million baht, larger than 1,446,473 million baht surplus in 2018. Trade balance registered a surplus of 826,931 million baht which was higher than a surplus of 720,436 million baht in 2018. Meanwhile, service balance presented a surplus of 751,915 million baht, better than a surplus of 726,037 million baht in 2018. Primary income posted a deficit of 622,512 million baht, better than a deficit of 793,104 million baht in 2018. Secondary income showed a surplus of 223,398 million baht, smaller than a surplus in 2018. Ultimately, current account, comprising trade balance, service balance, primary income and secondary income, registered a surplus of 1,179,732 million baht, higher than a surplus of 912,131 million baht in 2018.

Trade and services balance and current account at current market prices

Items	Value at current market prices (Millions of Baht)			Growth rate (%)		
	2017	2018	2019	2017	2018	2019
Exports	10,326,731	10,616,163	10,052,248	5.5	2.8	-5.3
Goods	7,920,724	8,114,859	7,534,817	5.1	2.5	-7.1
Services	2,406,007	2,501,304	2,517,431	6.8	4.0	0.6
Imports	8,397,737	9,169,690	8,473,402	7.6	9.2	-7.6
Goods	6,815,779	7,394,423	6,707,886	8.7	8.5	-9.3
Services	1,581,958	1,775,267	1,765,516	3.0	12.2	-0.5
Trade and services balance	1,928,994	1,446,473	1,578,846			
Percentage to GDP (%)	12.5	8.8	9.3			
Primary income	-693,851	-793,104	-622,512			
Secondary income	255,455	258,762	223,398			
Current account balance	1,490,599	912,131	1,179,732			
Percentage to GDP (%)	9.6	5.6	7.0			

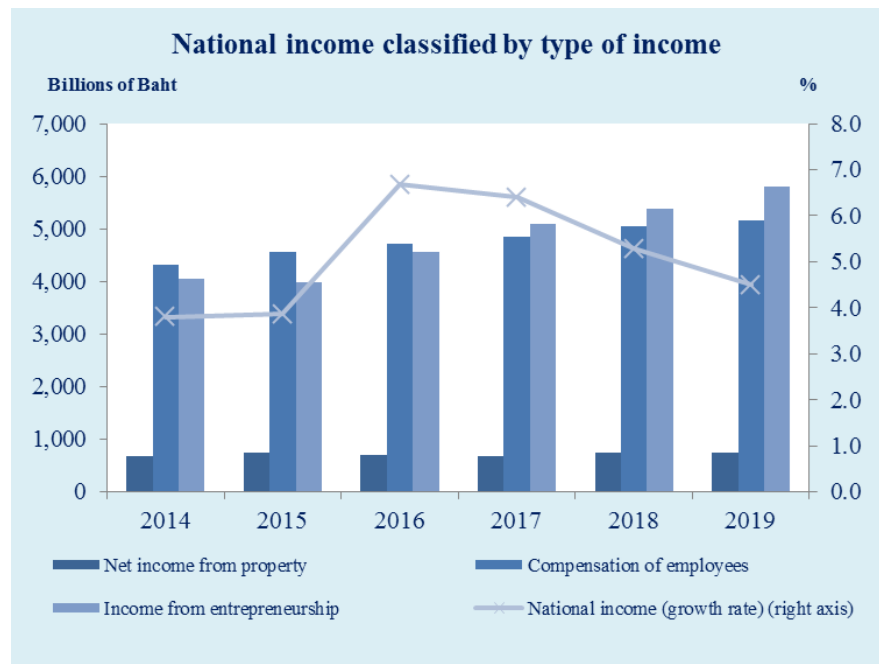
Exchange rate

Exchange rate presented an average value at 31.0 Thai Baht per U.S. dollar in 2019, appreciating from 32.3 Thai Baht per U.S. dollar in 2018.

National income and savings

National income

Gross National Income in 2019 recorded a value at 16,275,574 million baht, expanded by 4.5%, lower than 5.3% in 2018. Compensation of employees, 31.7% of gross national income, rose by 2.4%. Return on capital, land, and entrepreneurship, 40.2% of gross national income, increased by 7.0%, mainly due to an acceleration in return on entrepreneurship. While net return on income from property decelerated. Moreover, taxes on production and imports less subsidies, and consumption of fixed capital increased by 1.0%, and 4.9%, respectively.



Type of income	Value at current market prices (Millions of Baht)			Growth rate (%)		
	2017	2018	2019	2017	2018	2019
Compensation of employees	4,855,252	5,044,907	5,165,494	3.1	3.9	2.4
Income from property and entrepreneurship	5,784,430	6,120,334	6,546,690	10.1	5.8	7.0
Income from property (Net)	684,905	737,223	750,750	-1.5	7.6	1.8
• Households & Non-profit institutions	661,243	705,263	726,876	-3.4	6.7	3.1
• Government	23,662	31,960	23,874	128.3	35.1	-25.3
Income from entrepreneurship	5,099,525	5,383,111	5,795,940	11.9	5.6	7.7
• Households & Non-profit institutions	3,015,981	3,195,165	3,474,911	8.3	5.9	8.8
• Corporations	2,083,544	2,187,946	2,321,029	17.6	5.0	6.1
Taxes on production and import less subsidies	1,526,468	1,636,122	1,651,922	5.0	7.2	1.0
Consumption of fixed capital	2,628,663	2,774,244	2,911,468	5.6	5.5	4.9
National income	14,794,813	15,575,607	16,275,574	6.4	5.3	4.5
Population (1,000 persons)	68,800	69,107	69,315	0.7	0.4	0.3
National income per capita (Baht)	215,041	225,384	234,806	5.7	4.8	4.2

Compensation of employees

Compensation of employees grew up by 2.4%, slowing down from 3.9% in 2018.

Compensation of employees or return on labor in 2019 presented a value at 5,165,494 million baht, equivalence to 31.7% of Gross National Income (GNI), increased by 2.4%, slower than 3.9% in 2018. Compensation of employees in the public sector accelerated, while compensation of employees in the private sector decelerated. On the other hand, compensation of employees can be divided into 2 parts as follows: (1) wages and salaries increased by 1.5%, decelerated from 3.7% in 2018, and (2) employer's contribution in social security fund and other welfare rose by 8.5%. In 2019, no new minimum wage promulgation but new labor protection act (No. 7) B.E. 2562 (2019) were enforced new severance pay scheme which increased from 300 days (10 months) to 400 days (13.3 months) of wages for terminating an employee with an employment period of 20 years or more. While salaries in the government sector were increased as a normal pattern, special salary account adjustment was not applied. The labor force survey by the National Statistical Office (NSO) in 2019 indicated total employed persons dropped by 0.7%. The number of employed persons with employee status increased by 1.8%. Public employees fell by 0.9%, while private employees, 81.3% proportion of total employees, grew up by 2.4%.

Compensation of employees by economic activities

Sector	Value at current prices (Millions of Baht)			Growth rate (%)		
	2017	2018	2019	2017	2018	2019
Agricultural sector	196,631	202,643	208,587	3.7	3.1	2.9
Agriculture, forestry and fishing	196,631	202,643	208,587	3.7	3.1	2.9
Non-agricultural sector	4,649,358	4,838,840	5,032,229	3.3	4.1	4.0
Industrial	1,413,015	1,468,429	1,498,025	1.8	3.9	2.0
Manufacturing	1,267,083	1,312,849	1,332,131	1.4	3.6	1.5
Others	145,932	155,580	165,894	6.1	6.6	6.6
Services	3,236,343	3,370,411	3,534,204	4.0	4.1	4.9
Construction	200,897	202,237	205,879	-1.7	0.7	1.8
Wholesale and retail trade; repair of motor vehicles and motorcycles	474,971	489,844	520,963	5.6	3.1	6.4
Transportation and storage	182,890	191,915	206,771	6.7	4.9	7.7
Accommodation and food service activities	166,060	182,971	200,294	13.1	10.2	9.5
Financial and insurance activities	326,894	341,708	359,312	2.3	4.5	5.2
Public administration and defence; compulsory social security	678,517	705,505	732,921	3.8	4.0	3.9
Education	586,792	614,747	637,373	2.5	4.8	3.7
Human health and social work activities	275,474	286,450	299,415	6.1	4.0	4.5
Others	343,848	355,034	371,276	2.8	3.3	4.6
The rest of the world	9,263	3,424	-75,322	-57.9	-63.0	-2,299.8
Total	4,855,252	5,044,907	5,165,494	3.1	3.9	2.4

Compensation of employees slowed down in both agricultural and non-agricultural sectors, especially in industrial sector despite an acceleration in service sector.

Private and public compensation of employees

Public compensation of employees, 35.4% of total compensation of employees, increased by 4.7%, better than 3.7% in 2018. Compensation of employees of government officers and state enterprises increased by 4.0% and 8.2%, respectively. Compensation of employees of private sector (net compensation of employees from abroad included), 64.6% share of total compensation of employees, grew up at the rate of 1.2%, less than 4.0% in 2018. While compensation of employees classified by economic activities presented a slowing down direction in both agricultural and non-agricultural sectors with a slowdown in the industrial sector and an acceleration in the service sector.

Compensation of employees by economic activities

Compensation of employees in the agricultural sector presented a value at 208,587 million baht, 4.0% of total compensation of employees, increased by 2.9%, decelerating from 3.1% in 2018. This deceleration was not only originated from lower planting area, particularly in paddy, and slowdown in agricultural product value, but average precipitation also diminished.

Compensation of employees in the non-agricultural sector recorded a value at 5,032,229 million baht, 94.7% of total compensation of employees, increased by 4.0%, lower than 4.1% in 2018. This expansion can be observed from both industrial and services sectors.

Compensation of employees in the industrial sector, 29.0% of total compensation of employees, expanded by 2.0%, lower than 3.9% in 2018. The largest proportion in the industrial sector was manufacturing, which descended from 3.6% in 2018 to 1.5% in 2019. Compensation of employees in mining and quarrying slightly declined by 0.1%, worse than 6.1% in 2018. Compensation of employees in electricity, gas, steam, and air conditioning supply together with water supply; sewerage, waste management, and remediation activities grew up by 7.6% and 14.9%, respectively..

Compensation of employees in the service sector, 68.4% of total compensation of employees, lifted by 4.9%, better than 4.1% in 2018. Compensation of employees in information and communication activities, accommodation and food service activities, and transportation and storage activities boosted up by 9.9%, 9.5%, and 7.7%, respectively, derived by the expansion of production situation in these sectors. Compensation of employees in public administration and defence; compulsory social security, education, and human health and social work activities grew up by 3.9%, 3.7%, and 4.5%, compared to 4.0%, 4.8%, and 4.0% in 2018, respectively, which mainly resulted from an expansion in the government sector which was the largest proportion in each sector. Compensation of employees in financial and insurance activities improved from 4.5% in 2018 to 5.2% in 2019. Such an improvement originated from higher compensation of employees in financial service activities and activities auxiliary to financial service and insurance activities, especially in commercial banks, while insurance activities slightly slowed down. Moreover, compensation of employees in other services activities expanded by 4.6%, better than 3.3% in 2018.

*Net compensation of employees from the rest of the world*¹ recorded a deficit value at 75,322 million baht. Compensation of employees from the rest of the world registered at 36,434 million baht, less than 111,756 million baht of compensation of employees to 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 2019.

Returns on land, capital, and entrepreneurs

Net return on land, capital, and entrepreneurship valued at 6,546,690 million baht, equivalence to 40.2% of gross national income, expanded by 7.0%, enhancing from 5.8% in 2018.

Income from farms and households and non-profit institutions serving households (NPISHs) or mixed income valued at 3,474,911 million baht, a 21.4% share of gross national income, increased by 8.8%, better than 5.9% in 2018. Income from farms expanded by 2.3%, slowing down from 3.2% in 2018. Such a deceleration was majorly due to lower agricultural product quantity, in particular, paddy, sugarcane, and vegetables, while overall agricultural product prices increased. Furthermore, other mixed income also posted as an acceleration trend with a growth of 10.9%.

Income from entrepreneurship or profit of corporations recorded the value at 2,321,029 million baht, which boosted up by 6.1%. Net savings of private corporations dropped, while the net savings of state enterprises drastically escalated.

Net income from property of households and non-profit institutions serving households (NPISHs) valued at 726,876 million baht, increased by 3.1%, less than 6.7% in 2018. The deceleration was mainly due to a slowdown in property income receipt, which stayed at a lower rate than property income payment.

Households and private non-profit institutions income from property

Item	Growth rate (%)			Structure (%)		
	2017	2018	2019	2017	2018	2019
Income						
Interest received	-6.5	1.1	6.4	22.7	21.7	22.2
from banks	-5.2	0.1	6.6	20.5	19.4	19.9
from others	-17.2	10.3	4.2	2.2	2.3	2.3
Dividends	-1.2	8.1	3.2	51.5	52.5	52.1
Rent	0.0	3.6	1.7	7.9	7.7	7.6
Others	6.5	7.1	4.4	17.9	18.0	18.1
Total	-1.1	6.0	4.0	100.0	100.0	100.0
Expense						
Interest paid	4.2	5.2	7.2	66.0	66.3	67.2
Rent	0.0	3.6	1.7	21.9	21.6	20.8
Others	4.6	4.8	4.6	12.1	12.1	12.0
Total	3.3	4.8	5.7	100.0	100.0	100.0

Households and NPISHs property income receipt posted a value at 1,141,885 million baht, increased by 4.0%, less than 6.0% in 2018, on account of an increase in all receipt items. Income from interest receipts expanded by 6.4%, improving from 1.1% in 2018. Interest from banks expanded by 6.6%, on account of a 10.3% rise in interest from commercial banks in line with larger money deposit volume and a gradually increasing interest rate. In addition, other interest income continually expanded from 2018, especially a 16.0% rise in interest from cooperatives. Household dividends received from the business sector grew by 3.2%, decelerating from 8.1% in 2018, which is mainly attributed to the deceleration in dividends from private corporations. Rental income from the agricultural land, and other receipts expanded by 1.7%, and 4.4%, slowing down from 3.6% and 7.1% in 2018, respectively.

Households and NPISHs property income payment posted a value at 415,009 million baht, increased by 5.7%, higher than 4.8% in 2018. Such an increase mainly originated from interest payment, the main payment item, expanded by 7.2%, as a result of an increase in interest payment for banks, in keeping with a higher loan for consumption. However, the interest rate was slightly lower than the previous year. Moreover, interest payments for insurance policy loans and mortgage loans also increased. On the one hand, rent for the agricultural land decelerated.

General government income from property grew by 0.9%, decelerating from 7.9% in 2018. The income from rent, interest, and dividend, accounting for 80.6% of total general government income from property, showed no increase in growth after a rise of 8.6% in 2018. The zero growth mainly resulted from a 4.8% rise in dividend, lower than 12.2% in 2018. Additionally, interest income grew by 4.3%, improving from a decline of 4.2% in 2018. This increase was offset by a 49.4% decrease in rental income. The components can be described in detail as follows the increase in the dividend received from the state enterprises as primary sources were mostly from the department of telecommunication and transportation, and the department of commercial and service. Next, the considerable improvement of interest income originated from increases in loan interest of Education Loan Funds and deposit interest rates from financial institutions. Lastly, the decrease in rental income resulted from a fall in the real estate rental fee.

General government income from property

Item	Growth rate (%)			Structure (%)		
	2017	2018	2019	2017	2018	2019
Rent	28.3	14.9	-49.4	6.7	7.1	3.6
Interest received	0.0	-4.2	4.3	18.8	16.7	17.2
From Banks	-6.0	-6.2	5.6	14.9	13.0	13.6
From others	32.2	3.3	0.1	3.9	3.7	3.7
Dividend	7.4	12.2	4.8	55.3	57.5	59.8
Sub total	7.0	8.6	0.0	80.7	81.3	80.6
Investment income on pension entitlement	4.6	4.8	4.6	19.3	18.7	19.4
Total	6.5	7.9	0.9	100.0	100.0	100.0

Saving and saving - investment gap

Gross saving posted a value at 5,190,016 million baht, increased by 3.1%, rebounding from a 0.2% fall in 2018. Net saving amounted to 2,447,048 million baht, increased by 1.6%, lower than 3.9% in 2018. Such deceleration was mainly due to a 0.9% reduction in private net saving, from a 2.4% rise in 2018. The decline in private net saving contributed from private corporations; meanwhile, net savings of households and NPISHs grew up at a gradual rate. Net savings of the public sector increased by 50.0%, continually rising from 42.2% in 2018. The high expansion was due to a rise in the net saving of public corporations and government enterprises; meanwhile, government net saving posted a deficit of 173,941 million baht, deeper than a deficit of 84,560 million baht in 2018, which showed the sixth consecutive year deficit. Consumption of fixed capital registered a value at 2,911,468 million baht, grew by 4.9%, lower than 5.5% in 2018.

Saving and gross capital formation

Item	Value at current price (Millions of Baht)			Growth rate (%)		
	2017	2018	2019	2017	2018	2019
Gross capital formation	3,552,215	4,120,325	4,010,284	15.4	16.0	-2.7
• Private sector	2,653,500	2,767,231	2,842,691	4.9	4.3	2.7
• Public sector	925,677	957,740	962,773	-0.5	3.5	0.5
• Change in inventories	-26,962	395,354	204,820			
Gross saving	5,042,813	5,032,455	5,190,016	9.3	-0.2	3.1
• Net saving	2,318,467	2,407,892	2,447,048	22.0	3.9	1.6
• Depreciation	2,628,663	2,774,244	2,911,468	5.6	5.5	4.9
• Discrepancy	-95,683	149,681	168,500			
Saving-investment gap	1,490,598	912,130	1,179,732	-2.9	-38.8	29.3
Saving-investment gap to GDP (%)	9.6	5.6	7.0			

Private net savings

Private net savings comprising Households and NPISHs, private corporations, and cooperatives presented the value of 2,267,951 million baht, subtracted by 0.9%, worse than a rise of 2.4% in 2018.

1) Net savings of Households and Non-profit Institutions Serving Households (NPISHs)

Net savings of Households and NPISHs showed value at 920,495 million baht, grew by 0.4%, decelerating from 2.1% in 2018. The slowdown was due to receipts expanding at a lower rate than payments, which led to disposable income slowing down from 2018. Meanwhile, private final consumption expenditure grew at a higher rate than disposable income; hence net savings of households and NPISHs revealed low rate expansion.

Households and NPISHs income valued at 10,717,139 million baht, increasing by 5.5%, due to increases in both primary and secondary income receivable. Primary income receivable, the principal source of income, increased by 4.8%, consists of (1) compensation of employees, 48.2% share of households and NPISHs income, increased by 2.4%, (2) Households and NPISHs mixed income, a 32.4% share of total income expanded by 8.8%, (3) property income, 10.7% of total income, increased by 4.0%, smaller than 6.0% in 2018, owing to a slowdown in the dividend. Meanwhile, interest from banks grew up in line with larger money deposit volume and higher interest rates. Secondary income receivable comprises social benefits other than social transfers in kind, and other current transfers grew by 14.4%.

Personal income, expenditure and saving

Item	Value at current prices (Millions of Baht)			Growth rate (%)		
	2017	2018	2019	2017	2018	2019
Personal income	9,643,715	10,154,958	10,717,139	4.8	5.3	5.5
Personal outlay	1,311,407	1,381,581	1,545,291	2.5	5.4	11.8
Disposable personal income	8,332,308	8,773,377	9,171,848	5.2	5.3	4.5
Less Private consumption expenditure	7,578,735	8,004,753	8,405,971	3.9	5.6	5.0
Plus Adjustment for the change in pension entitlement	144,459	148,193	154,618	6.9	2.6	4.3
Personal savings	898,032	916,817	920,495	18.1	2.1	0.4
Disposable personal income per capita (Baht)	121,109	126,954	132,321	4.5	4.8	4.2
Personal outlay per capita (Baht)	110,156	115,831	121,272	3.1	5.2	4.7
Personal savings per capita (Baht)	13,053	13,267	13,280	17.3	1.6	0.1

Primary and secondary income payment, inevitable expenses valued at 1,545,291 million baht, increased by 11.8%, accelerating from 5.4% in 2018. Property income payable rose by 5.7%, enhancing from 4.8% in 2018. Income taxes grew by 9.1%, accelerated from 4.4% in 2018. Net social security contribution grew by 7.9%. While the transfer to government and the rest of the world also increased by 60.6%, highly rising from 10.1% in 2018.

Households and NPISHs disposable income increased by 4.5%, smaller than 5.3% in 2018. After deducted by private final consumption expenditure, which grew up at a higher rate than disposable income, and adjusted by the adjustment for the change in pension entitlement, contributed to net savings of households and NPISHs with an expansion of 0.4%. In other words, net savings per capita of Households and NPISHs posted a value at 13,280 baht, slightly increased by 0.1%.

2) Net savings of private corporations and cooperatives

Net savings of private corporations and cooperatives, which adjusted by national accounts definition, valued at 1,347,456 million baht, contracted at the rate of 1.8%, in contrast to a rise of 2.6% in 2018. Net savings of private corporations registered at 1,336,163 million baht, decreased by 1.8%, in contrast to a 2.7% rise in 2018, mainly originated from a reduction of profits of listed companies in the Stock Exchange of Thailand (private commercial banks and public corporations excluded) and commercial banks in accordance with the conceptual framework of national accounts. However, other private corporations' profits increased at a slower rate. On the contrary, a net saving of cooperatives presented a value of 11,293 million baht, increased by 1.8%, rebounding from a 1.9% subtraction in 2018.

Net saving

Item	Value at current prices (Millions of Baht)			Growth rate (%)		
	2017	2018	2019	2017	2018	2019
Net savings	2,318,467	2,407,892	2,447,048	22.0	3.9	1.6
Private sector	2,234,485	2,288,509	2,267,951	21.6	2.4	-0.9
• Households	898,032	916,817	920,495	18.1	2.1	0.4
• Corporations & cooperatives	1,336,453	1,371,692	1,347,456	24.0	2.6	-1.8
Public sector	83,982	119,383	179,097	35.1	42.2	50.0
• Government	-152,946	-84,560	-173,941	-3.9	44.7	-105.7
• Enterprises	236,928	203,943	353,038	13.1	-13.9	73.1
Gross saving	5,042,813	5,032,455	5,190,016	9.3	-0.2	3.1
Gross savings to GDP (%)	32.6	30.7	30.7			

Public net savings

Public net savings, consisting of the general government, public corporations, and government enterprises, presented a surplus at 179,097 million baht, escalated by 50.0%. Government net savings recorded a deficit at 173,941 million baht, deeper than a deficit of 84,560 million baht in 2018. Net savings of public corporations and government enterprises posted a surplus at 353,038 million baht, which increased by 73.1%, in contrast to a fall of 13.9% in 2018.

1) General government net savings

General government net savings recorded the 173,941 million baht deficit, higher than the 84,560 million baht deficit in 2018, considered the sixth consecutive year deficit. General government revenue amounted to 4,752,586 million baht, an increase of 2.1% in 2019, compared to 5.7% in 2018. The increase was from taxes, the primary income, which grew by 1.1%. Meanwhile, government expenditure in non-investment items posted at 4,461,822 million baht, which grew by 4.0%, the same rate as 2018. In the meantime, the value of adjustment for the change in pension entitlement valued 154,618 million baht or an increase of 4.3%, and consumption of fixed capital valued 310,387 million baht or an increase of 3.1%. Consequently, general government net savings decreased by 105.7% or an expansion in a saving deficit.

An increase in general government income in 2019 came mainly from increases in taxes on production and imports, property income from the government, current taxes on income and wealth, which enabled to categorize as follows:

General government income, expenditure and savings

Item	Value at current prices (Millions of Baht)			Growth rate (%)		
	2017	2018	2019	2017	2018	2019
General government income	4,406,632	4,656,452	4,752,586	4.3	5.7	2.1
General government expenditure	1,604,059	1,644,699	1,727,337	6.8	2.5	5.0
Disposable general government income	2,802,573	3,011,753	3,025,249	3.0	7.5	0.4
<u>Less</u> Final consumption expenditure	2,524,403	2,647,479	2,734,485	2.6	4.9	3.3
<u>Less</u> Adjustment for the change in pension entitlement ^{1/}	144,459	148,193	154,618	6.9	2.6	4.3
<u>Less</u> Consumption of fixed capital	286,657	300,641	310,087	4.8	4.9	3.1
General government net savings	-152,946	-84,560	-173,941	-3.9	44.7	-105.7

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, 36.1% of total general government revenue, increased by 0.1% due to the higher government tax collection. Expansion of tax revenue was from (1) Beer tax as all business operators have increased the amount of tax payment since the beginning of 2019 after the enforcement of the Excise Act B.E 2560 in 2018. (2) Liquor tax and Liquor Stamps as domestic business operators have developed their products and launched new sizes of blended liquor in September, together with the refinement of liquor packages to more modern and more premiums. Consequently, the business operators have made higher liquor tax payments, particularly for white wine and blended liquor. (3) Excise tax on imports. A deceleration in tax revenue was from (1) The income of 23.0 percent of the lottery sales and interest. (2) Non-alcoholic beverage tax. (3) Tobacco stamps as the tobacco consumption declined by 7.7% per year (according to the National Statistical Office's report) and a rising proportion of pipe tobacco blends consumption. (4) Petroleum royalty.

Declining in tax collection was (1) Value Added Taxes (VAT) as a result of a decrease in Value Added Taxes on imports. The main reason is that the United States-China trade war caused adversely the total value of imports, following the appreciation of Thai baht, a 4.0% decline in Dubai crude oil price, and a decrease in the total value of crude oil import. In terms of Value Added Tax on consumption, it increased by 1.8%. Sectors of which VAT collection decreased were electricity, gas, steam, and air conditioning supply; manufacture of motor vehicles, trailers, and semi-trailers; financial and insurance activities; telecommunications; and accommodation and food service activities. Sectors of which VAT collection expanded were the manufacture of beverages; activities of head offices, management consultancy activities; real estate activities; construction of warehouse and support activities for transportation; and retail trade. (2) Oil and petroleum products taxes due to the government's alternem energy consumption promotion which resulted in the missing of diesel tax collection, following the temporary shutdown for maintenance of petroleum refinery. (3) Import duties due partly to a decline in imports. (4) Motor vehicle tax due to the drop in the agricultural product prices despite motor vehicle entrepreneurs launching new models into the market and sale promotion, following the slowdown in the domestic economy. (5) Specific business tax.

Property income from government and investment income payable on pension entitlements, accounted for 5.4% of total government revenue, which increased by 0.9%. The expansion was driven by the income from dividend with the share of 59.8% of total government property income, increased by 4.8%, partly contribute to income from dividend of public agencies, namely department of transportation and communication; department of commerce and services. Meanwhile, other property income, namely investment income payable on pension entitlements, increased by 4.6%, slowing down from 2018 due to

a deceleration in the dividend received (child allowance and old-age program) from the social security fund. Interest income grew by 4.3%, driven by the rising interest of student loans and deposits of financial institutions. However, rental income decreased by 49.4%, attributed partly to a fall in real estate rental fees.

Current taxes on income, wealth, and etc., accounted for 22.7% of total government revenue, which increased by 2.8%, lower than in 2018. Tax revenue expansion was from personal income tax, which increased by 10.1% due to tax collection on salary payments with a rise of 6.6% in line with compensation of employees of the private sector with 6.7% and withholding tax collection on salary payments of the public sector with 4.6%. Besides, withholding tax collection on interest payments increased by 6.1%. Withholding tax collection on service fees increased by 6.2%. However, withholding tax collection on real estate transactions decreased by 25.0% due to a decline in the total commercial real estate sales. Moreover, tax collection from corporate income tax increased by 2.5%, lower than 2018, due partly to (1) Tax collection on net profit and forecasted net profit increased by 5.0%, lower than 2018. The deceleration resulted mainly from the tax collection on Corporate Income Tax in 2018, following a decline in the tax collection on forecasted net profit as the slowdown economic condition in the first mid-year of 2019. (2) Withholding tax collection by the private sector increased by 2.1%, in accordance with the Manufacturing Production Index (MPI). (3) Tax collection on income distribution abroad increased by 0.5% due to the deceleration in companies' net profit. Meanwhile, petroleum income tax collection increased by 6.4%. The high growth of tax collection was mainly contributed by the transfer of petroleum concession among petroleum exploration and production entrepreneurs, an elevated efficiency in tax collection, and hiking oil price.

Social contributions, which accounted for 13.0% of total government revenue, expanded by 7.9%, rising from 5.4% in 2018. The expansion was partly from an increase in contributions to the local government pension fund and the Bangkok government pension fund. The contributions to social security funds of both employers and employees slowed down in line with a lower number of insured persons. Meanwhile, the contribution rate of both employers and employees remained the same rate as the previous year.

Miscellaneous current transfers receivable, which accounted for 1.1% of total government revenue, decreased by 6.8%. The decrease was mainly contributed by a fall in income from operating subsidies, penalties, traffic fines.

Interest paid, which accounted for 4.1% of total government expenditure, increased by 4.6%, lower than 4.9% in 2018. The deceleration was mainly from government bond yield. Short-term and long-term government bond yields adjusted downward. Short-term government bond yield declined due to higher demand after the investors have more liquidity from the maturity of bond redemption. However, long-term bond yield adjusted downward after raising the weight of Thai government bonds in JP Morgan Global Government Bond Index; consequently, it triggered higher demand for long-term government bonds. The short-term loan interest of commercial banks increased remarkably by 181.4%, driven by the expansion of commercial banks' short-term loans. Promissory notes for financing deficit increased by 50.0%. Interest paid decreased covered (1) Interest expenses on promissory notes for debt restructuring decreased by 18.8%. (2) Interest paid of international debt decreased by 2.2%.

Subsidies, which accounted for 1.4% of total government expenditure, decreased by 19.4% as a result of a decrease in subsidized LPG and Gasohol E20 from Fuel 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 9.4%, lower than 14.4% in 2018. The deceleration originated from the increase in a usual pension; perpetuity; monthly payment of perpetuities; outpatient medical expenses - state hospital for legal pensioners; social benefits in case of old age pension, child allowance, and the unemployed; allowance for the elderly and the disabled; 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. Meanwhile, severance paid; outpatient medical expenses - state hospital for legal eligibility, except for pensioners; and a monthly allowance for pensioners showed the decreased value.

Miscellaneous current transfers payable, which accounted for 3.0% of total government expenditure, increased significantly by 22.7%, improving from 1.1% in 2018. The acceleration was from an expansion of transfers expenses for operations - non-profit organizations, household sector, and other business agencies; the project on strengthening the grassroots economy under Pracharat policy; and the stimulus measures to raise income for low-income earners under Government Welfare Program; and government expenditure on social security and welfare affairs and services. Moreover, the addition of the government's state welfare scheme to support social welfare cardholders (e-Money) consisted of

- Home rental for the elderly, which will be paid on the 12th of the month to the elderly welfare cardholders and renting a house (0.22 million people) from December 2017 to September 2018.
- The amount limit pocket for buying consumer products (e-Money Thong Fah) and e-Money are paid to people who registered for the training. The registrant, who earns 0-30,000 baht per year, will be paid an additional 200 baht/ person/month, and if they earned 30,001-100,000 baht per year, they will be paid an additional 100 baht/person/month. They are allowed to withdraw cash from March to December 2019. Moreover, the welfare cardholders are also allowed to withdraw cash.

The government's economic stimulus package to stimulate the weakening economy in the mid-year of 2019 (The Thai Cabinet has approved 13,210 million baht giveaways for welfare cardholders on 30 April 2019) consisted of

- Under the welfare card program, farmers who hold welfare cards will receive 1,000 baht each in May 2019 to purchase agricultural raw materials such as fertilizer, pesticide, and other factors of production.
- Low-income parents with children still at school will receive 500 baht for each child who is still minor for the month of May 2019. The amount will mitigate the parents' expenses, such as student's uniform and school supplies.

Moreover, the government's Pracharat welfare card scheme to help ease low-income earners' cost-of-living burden (The Thai Cabinet has approved 20,102.11 million baht on 20 August 2019) consisted of

- The 500-baht cash handouts, which are granted by the government to help cover the cost of living expenses for two months from August to September 2019. Low-income earners can use the cash cards at Blue Flag outlets.
- The Child Support Grant scheme provides welfare support to children in impoverished households that are eligible to receive the welfare support under The Child Support Grant scheme for (newborn) children of the Ministry of Social Development and Human Security. They will be paid an additional 300 baht/person/month to the welfare cardholder for two months from August to September 2019.

Meanwhile, training expenses-outsiders, transfer expenses for operations-other business agencies and non-financial state-enterprises decreased.

2) Net savings of public corporations and government enterprises

Net savings of public corporations and government enterprises valued at 353,038 million baht, increased by 73.1%, rebound from a 13.9% decrease in 2018. Public corporations and government enterprises net profit in business accounting figure of the 2019 calendar year showed value at 134,929 million baht, lessened by 43.3%. After consolidated with 408,686 million baht of national accounts definition adjustment, public corporations and government

enterprises net profit in national accounts aspect before profit allocation registered at 543,615 million baht, grew by 36.5%, accelerating from a 6.2% fall in 2018. After deducting by profit allocation, comprising (1) dividend (2) profit delivered to government and (3) bonus payment from net profit, which decreased by 2.0%; consequently, net savings of public corporations and government enterprises significantly increased.

Net savings of state enterprises classified by organization establishment, public corporations net saving or performance in national accounts aspects posted at 81,500 million baht, increased by 3.9%, recovering from a 19.3% decrease in 2018. Other state enterprises showed 271,538 million baht of net savings, which rose by 116.3%, surging up from a drop of 10.2% in 2018.

Saving – investment gap

Gross saving registered value at 5,190,016 million baht, increased by 3.1%, better than a slight decline in 2018. Gross capital formation or investment registered at 4,010,284 million baht, lessened by 2.7%, dropping from a 16.0% expansion in 2018. Such gross saving and investment brought about a surplus of the saving-investment gap at 1,179,732 million baht, which larger than a surplus of 912,130 million baht in 2018, equivalent to a 7.0% share of GDP.

GDP Implicit Price Deflator

**Overall price level
increased by 0.9%.**

GDP Implicit Price Deflator

GDP Implicit Price Deflator in 2019 grew by 0.9%, decelerating from 1.4% in 2018. Agricultural price deflator increased by 3.3%, recovering from a fall of 2.8% in 2018. Meanwhile, non-agricultural price deflator rose by 0.7%, compared to a rise of 1.8% in 2018 as a result of an increase in the deflators contributed chiefly to major activities, namely electricity, gas, steam and air conditioning supply; construction; wholesale and retail trade; transportation and storage; accommodation and food service; education; human health and social work; financial and insurance activities; real estate activities; and activities of households as employers. Decreasing in deflators was found from mining and quarrying; manufacturing; water supply; sewerage, waste management and remediation activities; information and communication; and art, entertainment and recreation.

On the expenditure side, the overall price deflator rose by 0.8%, higher than 0.0% in 2018. Private consumption expenditure price deflator grew by 1.0%. The price deflator of investment also grew by 0.2%. Besides, the price deflator of government final consumption expenditure grew by 1.6%. For the external sector, the price deflator of exports goods and services decreased by 2.4%. Similarly, the price deflator of imports goods and services declined by 2.6%.

Consumer price index (CPI) in 2019 expanded by 0.7%, compared to 1.1% in 2018, while producer price index (PPI) declined by 1.0%, in contrast to a rise of 0.4% in 2018.

Growth rate of implicit price deflator

(%)

Implicit price deflator	2015	2016	2017	2018	2019
Gross domestic product, (GDP)	0.7	2.6	1.9	1.4	0.9
Agriculture	-2.3	2.6	0.4	-2.8	3.3
Non-agriculture	1.0	2.6	2.0	1.8	0.7
Expenditure on gross domestic product	2.6	3.0	1.2	0.0	0.8
Private final consumption expenditure	-1.2	0.5	0.8	1.0	1.0
General government final consumption expenditure	2.6	2.4	2.3	2.2	1.6
Gross fixed capital formation	-1.0	-0.2	1.6	0.3	0.2
Exports of goods and services	1.5	2.5	0.3	-0.5	-2.4
Imports of goods and services	-4.9	0.3	1.3	0.8	-2.6
Consumer price index (CPI)	-0.9	0.2	0.7	1.1	0.7
Producer price index (PPI)	-4.1	-1.2	0.7	0.4	-1.0

ตารางสถิติ

Statistical Tables

Table

Main Accounts

Account 1	Production account	92
Account 2	Generation of income account	92
Account 3	Allocation of primary income account	93
Account 4	Secondary distribution of income account	94
Account 5	Use of disposable income account	95
Account 6	Redistribution of income in kind account	95
Account 7	Use of adjusted disposable income account	95
Account 8	External income account	96

Gross Domestic Product, Chain Volume Measures

Table 1	Expenditure on gross domestic product at current market prices	98
Table 2	Expenditure on gross domestic product, chain volume measures (reference year = 2002)	98
Table 2.1	Expenditure on gross domestic product, chain indices (reference year = 2002)	99
Table 2.2	Growth rate of expenditure on gross domestic product, chain volume measures (reference year = 2002)	99
Table 2.3	Contributions to growth rate of expenditure on gross domestic product, chain volume measures (reference year = 2002)	99

Gross Domestic Product (Production)

Table 3	Gross domestic product at current market prices by economic activities	102
Table 4	Gross domestic product at current factor cost by economic activities	103
Table 5	Gross domestic product, chain volume measures (reference year = 2002)	104
Table 5.1	Gross domestic product chain indices (reference year = 2002)	104
Table 5.2	Growth rate of gross domestic product chain volume measures (reference year = 2002)	105
Table 5.3	Contributions to growth rate of gross domestic product, chain volume measures (reference year = 2002)	105
Table 6	Gross domestic product originating from agriculture, forestry and fishing at current market prices	106
Table 7	Gross domestic product originating from agriculture, forestry and fishing, chain volume measures (reference year = 2002)	106
Table 7.1	Gross domestic product originating from agriculture, forestry and fishing, chain indices (reference year = 2002)	106
Table 7.2	Growth rate of gross domestic product originating from agriculture, forestry and fishing, chain volume measures (reference year = 2002)	106
Table 8	Gross domestic product originating from mining and quarrying at current market prices	107
Table 9	Gross domestic product originating from mining and quarrying, chain volume measures (reference year = 2002)	107
Table 9.1	Gross domestic product originating from mining and quarrying, chain indices (reference year = 2002)	107
Table 9.2	Growth rate of gross domestic product originating from mining and quarrying, chain volume measures (reference year = 2002)	107
Table 10	Gross domestic product originating from manufacturing at current market prices	108
Table 11	Gross domestic product originating from manufacturing, chain volume measures (reference year = 2002)	109
Table 11.1	Gross domestic product originating from manufacturing, chain indices (reference year = 2002)	110
Table 11.2	Growth rate of gross domestic product originating from manufacturing, chain volume measures (reference year = 2002)	111

Table

Table 12	Gross domestic product originating from electricity, gas, steam and air conditioning supply at current market prices	112
Table 13	Gross domestic product originating from electricity, gas, steam and air conditioning supply, chain volume measures (reference year = 2002)	112
Table 13.1	Gross domestic product originating from electricity, gas, steam and air conditioning supply, chain indices (reference year = 2002)	112
Table 13.2	Growth rate of gross domestic product originating from electricity, gas, steam and air conditioning supply, chain volume measures (reference year = 2002)	112
Table 14	Gross domestic product originating from water supply; sewerage, waste management and remediation activities at current market prices	113
Table 15	Gross domestic product originating from water supply; sewerage, waste management and remediation activities, chain volume measures (reference year = 2002)	113
Table 15.1	Gross domestic product originating from water supply; sewerage, waste management and remediation activities, chain indices (reference year = 2002)	113
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)	113
Table 16	Gross domestic product originating from construction at current market prices	114
Table 17	Gross domestic product originating from construction, chain volume measures (reference year = 2002)	114
Table 17.1	Gross domestic product originating from construction, chain indices (reference year = 2002)	114
Table 17.2	Growth rate of gross domestic product originating from construction, chain volume measures (reference year = 2002)	114
Table 18	Gross domestic product originating from wholesale and retail trade; repair of motor vehicles and motorcycles at current market prices	115
Table 19	Gross domestic product originating from wholesale and retail trade; repair of motor vehicles and motorcycles, chain volume measures (reference year = 2002)	115
Table 19.1	Gross domestic product originating from wholesale and retail trade; repair of motor vehicles and motorcycles, chain indices (reference year = 2002)	115
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)	115
Table 20	Gross domestic product originating from transportation and storage at current market prices	116
Table 21	Gross domestic product originating from transportation and storage, chain volume measures (reference year = 2002)	116
Table 21.1	Gross domestic product originating from transportation and storage, chain indices (reference year = 2002)	116
Table 21.2	Growth rate of gross domestic product originating from transportation and storage, chain volume measures (reference year = 2002)	116
Table 22	Gross domestic product originating from accommodation and food service activities at current market prices	117
Table 23	Gross domestic product originating from accommodation and food service activities, chain volume measures (reference year = 2002)	117
Table 23.1	Gross domestic product originating from accommodation and food service activities, chain indices (reference year = 2002)	117
Table 23.2	Growth rate of gross domestic product originating from accommodation and food service activities, chain volume measures (reference year = 2002)	117
Table 24	Gross domestic product originating from information and communication at current market prices	118
Table 25	Gross domestic product originating from information and communication, chain volume measures (reference year = 2002)	118
Table 25.1	Gross domestic product originating from information and communication, chain indices (reference year = 2002)	118
Table 25.2	Growth rate of gross domestic product originating from information and communication, chain volume measures (reference year = 2002)	118

Table

Table 26	Gross domestic product originating from financial and insurance activities at current market prices	119
Table 27	Gross domestic product originating from financial and insurance activities, chain volume measures (reference year = 2002)	119
Table 27.1	Gross domestic product originating from financial and insurance activities, chain indices (reference year = 2002)	119
Table 27.2	Growth rate of gross domestic product originating from financial and insurance activities, chain volume measures (reference year = 2002)	119
Table 28	Gross domestic product originating from real estate activities at current market prices	120
Table 29	Gross domestic product originating from real estate activities, chain volume measures (reference year = 2002)	120
Table 29.1	Gross domestic product originating from real estate activities, chain indices (reference year = 2002)	120
Table 29.2	Growth rate of gross domestic product originating from real estate activities, chain volume measures (reference year = 2002)	120
Table 30	Gross domestic product originating from professional, scientific and technical activities at current market prices	121
Table 31	Gross domestic product originating from professional, scientific and technical activities, chain volume measures (reference year = 2002)	121
Table 31.1	Gross domestic product originating from professional, scientific and technical activities, chain indices (reference year = 2002)	121
Table 31.2	Growth rate of gross domestic product originating from professional, scientific and technical activities, chain volume measures (reference year = 2002)	121
Table 32	Gross domestic product originating from administrative and support service activities at current market prices	122
Table 33	Gross domestic product originating from administrative and support service activities, chain volume measures (reference year = 2002)	122
Table 33.1	Gross domestic product originating from administrative and support service activities, chain indices (reference year = 2002)	122
Table 33.2	Growth rate of gross domestic product originating from administrative and support service activities, chain volume measures (reference year = 2002)	122
Table 34	Gross domestic product originating from arts, entertainment and recreation at current market prices	123
Table 35	Gross domestic product originating from arts, entertainment and recreation, chain volume measures (reference year = 2002)	123
Table 35.1	Gross domestic product originating from arts, entertainment and recreation, chain indices (reference year = 2002)	123
Table 35.2	Growth rate of gross domestic product originating from arts, entertainment and recreation, chain volume measures (reference year = 2002)	123
Table 36	Gross domestic product originating from other service activities at current market prices	124
Table 37	Gross domestic product originating from other service activities, chain volume measures (reference year = 2002)	124
Table 37.1	Gross domestic product originating from other service activities, chain indices (reference year = 2002)	124
Table 37.2	Growth rate of gross domestic product originating from other service activities, chain volume measures (reference year = 2002)	124

Table

Gross Domestic Product (Expenditure)

Table 38	Composition of private final consumption expenditure at current market prices	126
Table 39	Composition of private final consumption expenditure, chain volume measures (reference year = 2002)	127
Table 39.1	Composition of private final consumption expenditure, chain indices (reference year = 2002)	128
Table 39.2	Growth rate of composition of private final consumption expenditure, chain volume measure (reference year = 2002)	129
Table 40	Composition of private final consumption expenditure by type and durability at current market prices	130
Table 41	Composition of private final consumption expenditure by type and durability, chain volume measure (reference year = 2002)	131
Table 41.1	Composition of private final consumption expenditure by type and durability, chain indices (reference year = 2002)	132
Table 41.2	Growth rate of composition of private final consumption expenditure by type and durability, chain volume measure (reference year = 2002)	133
Table 42	Composition of general government final consumption expenditure at current market prices	134
Table 43	Composition of general government final consumption expenditure, chain volume measure (reference year = 2002)	134
Table 43.1	Composition of general government final consumption expenditure, chain indices (reference year = 2002)	135
Table 43.2	Growth rate of composition of general government final consumption expenditure, chain volume measure (reference year = 2002)	135
Table 44	Gross capital formation at current market prices	136
Table 45	Gross capital formation, chain volume measures (reference year = 2002)	136
Table 45.1	Gross capital formation, chain indices (reference year = 2002)	137
Table 45.2	Growth rate of gross capital formation, chain volume measures (reference year = 2002)	137
Table 46	Gross fixed capital formation by type of capital goods at current market prices	138
Table 47	Gross fixed capital formation by type of capital goods, chain volume measures (reference year = 2002)	138
Table 47.1	Gross fixed capital formation by type of capital goods, chain indices (reference year = 2002)	138
Table 47.2	Growth rate of gross fixed capital formation by type of capital goods, chain volume measure (reference year = 2002)	139
Table 48	Gross fixed capital formation by type of assets at current market prices	140
Table 49	Gross fixed capital formation by type of assets, chain volume measures (reference year = 2002)	140
Table 49.1	Gross fixed capital formation by type of assets, chain indices (reference year = 2002)	140
Table 49.2	Growth rate of gross fixed capital formation by type of assets, chain volume measure (reference year = 2002)	140

National income

Table 50	Distribution of the National income at current market prices	142
Table 51	Savings and gross capital formation	142
Table 52	General government income account	144
Table 53	Households and NPISHs income account	145
Table 54	Compensation of employees	146
Table 55	Households and NPISHs mixed income receivable	147
Table 56	Households and NPISHs property income receivable	147
Table 57	Household and NPISHs property income payable	147
Table 58	Saving of corporations	148
Table 59	Corporate transfer payments received by household and NPISHs	148
Table 60	Taxes	148
Table 61	Social contributions and social transfers	149

Main Accounts

Account 1 Production account

(Millions of Baht)

Transactions and balancing items	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Uses								
Intermediate consumption	18,935,584	19,469,478	19,533,097	19,175,997	19,155,793	20,134,060	21,244,169	21,331,830
Value added, gross / Gross domestic product	12,357,344	12,915,159	13,230,306	13,743,478	14,590,337	15,488,664	16,368,711	16,898,086
Consumption of fixed capital	1,958,158	2,084,525	2,214,196	2,344,834	2,488,386	2,628,663	2,774,244	2,911,468
Value added, net / Net domestic product	10,399,186	10,830,634	11,016,110	11,398,644	12,101,951	12,860,001	13,594,467	13,986,618
Resources								
Output	30,068,101	31,112,133	31,554,616	31,574,346	32,367,535	34,170,430	36,057,272	36,661,225
Market output	28,210,923	29,147,172	29,474,523	29,374,925	30,074,425	31,806,964	33,558,538	34,083,579
Non-market output	1,857,178	1,964,961	2,080,093	2,199,421	2,293,110	2,363,466	2,498,734	2,577,646
Taxes on products	1,303,706	1,351,505	1,303,157	1,388,433	1,422,778	1,489,791	1,607,673	1,605,921
Subsidies on products (-)	78,879	79,001	94,370	43,304	44,183	37,497	52,065	37,230

Account 2 Generation of income account

(Millions of Baht)

Transactions and balancing items	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Uses								
Compensation of employees, payable	3,783,696	4,016,251	4,300,943	4,533,734	4,689,364	4,845,989	5,041,483	5,240,816
Wages and salaries	3,365,027	3,574,463	3,816,852	4,005,633	4,119,571	4,243,272	4,406,029	4,551,627
Employers' social contributions	418,669	441,788	484,091	528,101	569,793	602,717	635,454	689,189
Taxes on production and imports, payable	1,384,661	1,443,542	1,391,975	1,473,579	1,521,872	1,588,125	1,588,125	1,712,939
Taxes on products	1,303,706	1,351,505	1,303,157	1,388,433	1,422,778	1,489,791	1,489,791	1,607,673
Other taxes on production	80,955	92,037	88,818	85,146	99,094	98,334	98,334	105,266
(less) Subsidies, receivable	100,106	103,665	121,854	69,939	68,330	61,657	76,817	61,882
Subsidies on products	78,879	79,001	94,370	43,304	44,183	37,497	52,065	37,231
Other subsidies on production	21,227	24,664	27,484	26,635	24,147	24,160	24,752	24,651
Mixed income and operating surplus, gross	7,289,093	7,559,031	7,659,242	7,806,104	8,447,431	9,116,207	9,815,920	10,006,213
Consumption of fixed capital	1,958,158	2,084,525	2,214,196	2,344,834	2,488,386	2,628,663	2,774,244	2,911,468
Mixed income and operating surplus, net	5,330,935	5,474,506	5,445,046	5,461,270	5,959,045	6,487,544	7,041,676	7,094,745
Resources								
Value added, gross / Gross domestic product	12,357,344	12,915,159	13,230,306	13,743,478	14,590,337	15,488,664	16,368,711	16,898,086
Value added, net / Net domestic product	10,399,186	10,830,634	11,016,110	11,398,644	12,101,951	12,860,001	13,594,467	13,986,618

Account 3 Allocation of primary income account

(Millions of Baht)

Transactions and balancing items	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Uses								
Balance of primary incomes, gross								
/ National income, gross	11,791,146	12,089,670	12,549,609	13,034,505	13,904,972	14,794,813	15,575,607	16,275,574
Balance of primary incomes, net								
/ National income, net	9,832,988	10,005,145	10,335,413	10,689,671	11,416,586	12,166,150	12,801,363	13,364,106
Resources								
Mixed income and operating surplus, gross	7,289,093	7,559,031	7,659,242	7,806,104	8,447,431	9,116,207	9,815,920	10,006,213
Mixed income and operating surplus, net	5,330,935	5,474,506	5,445,046	5,461,270	5,959,045	6,487,544	7,041,676	7,094,745
Compensation of employees	3,812,499	4,041,907	4,323,540	4,554,169	4,711,391	4,855,252	5,044,907	5,165,494
Wages and salaries	3,393,830	3,600,119	3,839,449	4,026,068	4,141,598	4,252,535	4,409,453	4,476,305
Employers' social contributions	418,669	441,788	484,091	528,101	569,793	602,717	635,454	689,189
Taxes on production and imports	1,384,661	1,443,542	1,391,975	1,473,579	1,521,872	1,588,125	1,588,125	1,712,939
Taxes on products	1,303,706	1,351,505	1,303,157	1,388,433	1,422,778	1,489,791	1,489,791	1,607,673
Other taxes on production	80,955	92,037	88,818	85,146	99,094	98,334	98,334	105,266
(less) Subsidies	100,106	103,665	121,854	69,939	68,330	61,869	76,371	76,371
Subsidies on products	78,879	79,001	94,370	43,304	44,183	37,709	51,619	51,619
Other subsidies on production	21,227	24,664	27,484	26,635	24,147	24,160	24,752	24,752
Property income ^{1/}	-595,001	-851,145	-703,294	-729,408	-707,392	-702,902	-796,974	-532,701

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

Account 4 Secondary distribution of income account

(Millions of Baht)

Transactions and balancing items	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Uses								
Current transfers	2,810,224	2,875,549	2,821,763	3,014,519	3,074,078	3,208,526	3,381,600	3,626,475
Current taxes on income, wealth, etc.	925,098	988,890	915,579	944,041	945,045	940,953	1,048,574	1,078,039
Taxes on income	892,434	959,843	881,447	906,322	908,726	897,742	1,004,085	1,032,797
Other current taxes	32,664	29,047	34,132	37,719	36,319	43,211	44,489	45,242
Social contributions	514,329	555,529	610,254	658,254	705,812	744,059	785,713	846,963
Employers' actual social contributions	118,036	136,318	158,414	169,913	176,570	182,437	194,909	203,221
Employers' imputed social contributions	300,633	305,470	325,677	358,188	393,223	420,280	440,545	485,968
Households' actual social contributions ^{1/}	63,528	79,004	88,430	90,186	92,613	95,960	102,721	108,326
Households' social contributions supplements ^{2/}	32,132	34,737	37,733	39,967	43,406	45,382	47,538	49,448
Social benefits other than social transfers in kind	326,151	330,096	346,702	377,027	421,938	459,179	525,460	574,978
Social security benefits in cash	26,986	29,400	30,159	31,332	36,394	38,769	44,247	49,768
Other social insurance benefits	215,128	207,476	227,205	252,867	294,198	316,394	335,134	366,468
Social assistance benefits in cash	84,037	93,220	89,338	92,828	91,346	104,016	146,079	158,742
Other current transfers	1,044,646	1,001,034	949,228	1,035,197	1,001,283	1,064,335	1,021,853	1,126,495
Net non-life insurance premiums ^{3/}	480	380	444	200	184	251	266	207
Current transfer within general government	814,877	712,042	656,299	734,081	701,203	762,526	710,498	724,119
Current international cooperation	1,334	1,375	1,819	1,602	2,548	1,985	1,753	1,464
Miscellaneous current transfers	227,955	287,237	290,666	299,314	297,348	299,573	309,336	400,705
Disposable income, gross	12,178,197	12,415,677	12,833,163	13,263,594	14,145,548	15,050,268	15,834,368	16,498,972
Disposable income, net	10,220,039	10,331,152	10,618,967	10,918,760	11,657,162	12,421,605	13,060,124	13,587,504
Resources								
Balance of primary incomes, gross								
/ National income, gross	11,791,146	12,089,670	12,549,609	13,034,505	13,904,972	14,794,813	15,575,607	16,275,574
Balance of primary incomes, net								
/ National income, net	9,832,988	10,005,145	10,335,413	10,689,671	11,416,586	12,166,150	12,801,363	13,364,106
Current transfers	3,197,275	3,201,556	3,105,317	3,243,608	3,314,654	3,463,981	3,640,361	3,849,873
Current taxes on income, wealth, etc.	925,098	988,890	915,579	944,041	945,045	940,953	1,048,574	1,078,039
Taxes on income	892,434	959,843	881,447	906,322	908,726	897,742	1,004,085	1,032,797
Other current taxes	32,664	29,047	34,132	37,719	36,319	43,211	44,489	45,242
Social contributions	514,329	555,529	610,254	658,254	705,812	744,059	785,713	846,963
Employers' actual social contributions	118,036	136,318	158,414	169,913	176,570	182,437	194,909	203,221
Employers' imputed social contributions	300,633	305,470	325,677	358,188	393,223	420,280	440,545	485,968
Households' actual social contributions ^{1/}	63,528	79,004	88,430	90,186	92,613	95,960	102,721	108,326
Households' social contributions supplements ^{2/}	32,132	34,737	37,733	39,967	43,406	45,382	47,538	49,448
Social benefits other than social transfers in kind	326,151	330,096	346,702	377,027	421,938	459,179	525,460	574,978
Social security benefits in cash	26,986	29,400	30,159	31,332	36,394	38,769	44,247	49,768
Other social insurance benefits	215,128	207,476	227,205	252,867	294,198	316,394	335,134	366,468
Social assistance benefits in cash	84,037	93,220	89,338	92,828	91,346	104,016	146,079	158,742
Other current transfers	1,431,697	1,327,041	1,232,782	1,264,286	1,241,859	1,319,790	1,280,614	1,349,893
Non-life insurance claims ^{3/}	21	1	2	1	1	1	1	1
Current transfer within general government	814,877	712,042	656,299	734,081	701,203	762,526	710,498	724,119
Current international cooperation	5,214	3,120	3,497	2,190	3,009	2,572	3,180	2,571
Miscellaneous current transfers	611,585	611,878	572,984	528,014	537,646	554,691	566,935	623,202

Note : ^{1/} The government social security plans included in government account comprise 6 funds : Social security fund, The Workmen's Compensation fund, Welfare fund (the former name is headmaster and private school teacher welfare fund), The national health security fund, Bangkok Metropolitan Administration pension fund, 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	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Uses								
Final consumption expenditure	8,603,354	8,900,573	9,196,723	9,409,588	9,757,238	10,103,138	10,652,232	11,140,456
Individual consumption expenditure	7,565,382	7,800,010	8,055,550	8,205,430	8,507,840	8,833,595	9,297,363	9,752,933
Collective consumption expenditure ^{1/}	1,037,972	1,100,563	1,141,173	1,204,158	1,249,398	1,269,543	1,354,869	1,387,523
Adjustment for the change in pension entitlements	107,370	129,060	131,124	134,843	135,130	144,459	148,193	154,618
Saving, gross	3,574,843	3,515,104	3,636,440	3,854,006	4,388,310	4,947,130	5,182,136	5,358,516
Saving, net	1,616,685	1,430,579	1,422,244	1,509,172	1,899,924	2,318,467	2,407,892	2,447,048
Resources								
Disposable income, gross ^{1/}	12,178,197	12,415,677	12,833,163	13,263,594	14,145,548	15,050,268	15,834,368	16,498,972
Disposable income, net	10,220,039	10,331,152	10,618,967	10,918,760	11,657,162	12,421,605	13,060,124	13,587,504
Adjustment for the change in pension entitlements	107,370	129,060	131,124	134,843	135,130	144,459	148,193	154,618

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	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Uses								
Social transfers in kind	982,822	1,012,806	1,096,910	1,148,884	1,211,288	1,254,859	1,292,609	1,346,962
Social transfers in kind - non-market production	737,151	774,914	852,780	905,607	951,068	984,792	1,025,186	1,068,469
Social transfers in kind - purchased market production	245,671	237,892	244,130	243,277	260,220	270,067	267,423	278,493
Adjusted disposable income, gross	12,178,197	12,415,677	12,833,163	13,263,594	14,145,548	15,050,268	15,834,368	16,498,972
Adjusted disposable income, net	10,220,039	10,331,152	10,618,967	10,918,760	11,657,162	12,421,605	13,060,124	13,587,504
Resources								
Disposable income, gross	12,178,197	12,415,677	12,833,163	13,263,594	14,145,548	15,050,268	15,834,368	16,498,972
Disposable income, net	10,220,039	10,331,152	10,618,967	10,918,760	11,657,162	12,421,605	13,060,124	13,587,504
Social transfers in kind	982,822	1,012,806	1,096,910	1,148,884	1,211,288	1,254,859	1,292,609	1,346,962
Social transfers in kind - non-market production	737,151	774,914	852,780	905,607	951,068	984,792	1,025,186	1,068,469
Social transfers in kind - purchased market production	245,671	237,892	244,130	243,277	260,220	270,067	267,423	278,493

Account 7 Use of adjusted disposable income account

(Millions of Baht)

Transactions and balancing items	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Uses								
Actual final consumption	8,603,354	8,900,573	9,196,723	9,409,588	9,757,238	10,103,138	10,652,232	11,140,456
Actual individual consumption	7,565,382	7,800,010	8,055,550	8,205,430	8,507,840	8,833,595	9,297,363	9,752,933
Actual collective consumption	1,037,972	1,100,563	1,141,173	1,204,158	1,249,398	1,269,543	1,354,869	1,387,523
Adjustment for the change in pension entitlements	107,370	129,060	131,124	134,843	135,130	144,459	148,193	154,618
Saving, gross	3,574,843	3,515,104	3,636,440	3,854,006	4,388,310	4,947,130	5,182,136	5,358,516
Saving, net	1,616,685	1,430,579	1,422,244	1,509,172	1,899,924	2,318,467	2,407,892	2,447,048
Resources								
Adjusted disposable income, gross	12,178,197	12,415,677	12,833,163	13,263,594	14,145,548	15,050,268	15,834,368	16,498,972
Adjusted disposable income, net	10,220,039	10,331,152	10,618,967	10,918,760	11,657,162	12,421,605	13,060,124	13,587,504
Adjustment for the change in pension entitlements	107,370	129,060	131,124	134,843	135,130	144,459	148,193	154,618

Account 8 External income account

(Millions of Baht)

Transactions and balancing items	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Income of non-residents								
Import of goods and services	8,492,424	8,432,453	8,270,441	7,861,679	7,806,464	8,397,737	9,169,690	8,473,402
<i>Import of goods</i>	7,073,389	6,977,230	6,801,008	6,407,028	6,270,835	6,815,779	7,394,423	6,707,886
<i>Import of services</i>	1,419,035	1,455,223	1,469,433	1,454,651	1,535,629	1,581,958	1,775,267	1,765,516
Primary income receivable by non-residents	816,716	1,025,561	919,664	875,532	913,155	982,533	1,075,223	969,166
<i>Compensation of employees</i>	30,317	30,835	39,391	49,203	56,705	60,680	64,887	111,756
<i>Property income</i>	786,399	994,726	880,273	826,329	856,450	921,853	1,010,336	857,410
Secondary income receivable by non-residents	96,368	109,072	118,386	129,363	133,111	123,024	122,168	192,501
Other current transfer	96,368	109,072	118,386	129,363	133,111	123,024	122,168	192,501
<i>Public</i>	1,334	1,375	1,819	1,602	2,548	1,985	1,753	1,464
<i>Private</i>	95,034	107,697	116,567	127,761	130,563	121,039	120,415	191,037
Use of income by non-residents								
Export of goods and services	8,520,542	8,675,260	9,048,752	9,295,635	9,785,869	10,326,731	10,616,163	10,052,248
<i>Export of goods</i>	7,075,805	6,990,698	7,360,423	7,308,359	7,533,353	7,920,724	8,114,859	7,534,817
<i>Export of services</i>	1,444,737	1,684,562	1,688,329	1,987,276	2,252,516	2,406,007	2,501,304	2,517,431
Primary income payable by non-residents	250,518	200,072	238,967	166,559	227,790	288,682	282,119	346,654
<i>Compensation of employees</i>	59,120	56,491	61,988	69,638	78,732	69,943	68,311	36,434
<i>Property income</i>	191,398	143,581	176,979	96,921	149,058	218,739	213,808	310,220
Secondary income payable by non-residents	483,419	435,079	401,940	358,452	373,687	378,479	380,929	415,899
Other current transfer	483,419	435,079	401,940	358,452	373,687	378,479	380,929	415,899
<i>Public</i>	5,214	3,120	3,497	2,190	3,009	2,572	3,180	2,571
<i>Private</i>	478,205	431,959	398,443	356,262	370,678	375,907	377,749	413,328
Balance on external income account	151,029	256,675	-381,168	-954,072	-1,534,616	-1,490,598	-912,130	-1,179,732

*Gross Domestic Product
Chain Volume Measures*

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

(Millions of Baht)

	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Private final consumption expenditure	6,582,560	6,787,204	6,958,639	7,056,546	7,296,552	7,578,735	8,004,753	8,405,971
General government final consumption expenditure	2,020,794	2,113,369	2,238,084	2,353,042	2,460,686	2,524,403	2,647,479	2,734,485
Gross fixed capital formation	3,335,697	3,278,326	3,262,778	3,371,069	3,459,901	3,579,177	3,724,971	3,805,464
Change in inventories	127,344	267,804	-98,217	-298,624	-380,535	-26,962	395,354	204,820
Plus : Exports of goods and services	8,520,542	8,675,260	9,048,752	9,295,635	9,785,869	10,326,731	10,616,163	10,052,248
<i>Exports of goods (f.o.b)</i>	7,075,805	6,990,698	7,360,423	7,308,359	7,533,353	7,920,724	8,114,859	7,534,817
<i>Exports of services</i>	1,444,737	1,684,562	1,688,329	1,987,276	2,252,516	2,406,007	2,501,304	2,517,431
Less : Imports of goods and services	8,492,424	8,432,453	8,270,441	7,861,679	7,806,464	8,397,737	9,169,690	8,473,402
<i>Imports of goods (f.o.b)</i>	7,073,389	6,977,230	6,801,008	6,407,028	6,270,835	6,815,779	7,394,423	6,707,886
<i>Imports of services</i>	1,419,035	1,455,223	1,469,433	1,454,651	1,535,629	1,581,958	1,775,267	1,765,516
Expenditure on gross domestic product	12,094,513	12,689,510	13,139,595	13,915,989	14,816,009	15,584,347	16,219,030	16,729,586
Plus : Statistical discrepancy	262,831	225,649	90,711	-172,511	-225,672	-95,683	149,681	168,500
Gross domestic product, (GDP)	12,357,344	12,915,159	13,230,306	13,743,478	14,590,337	15,488,664	16,368,711	16,898,086

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

(Millions of Baht)

	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Private final consumption expenditure	4,714,916	4,759,900	4,785,280	4,909,901	5,051,349	5,207,330	5,445,590	5,660,992
General government final consumption expenditure	1,395,850	1,417,379	1,457,177	1,493,837	1,526,168	1,530,150	1,570,597	1,597,102
Gross fixed capital formation	2,326,977	2,303,441	2,252,515	2,350,865	2,418,543	2,463,150	2,555,864	2,606,958
Change in inventories	92,683	183,078	-63,572	-111,915	-340,739	-68,590	259,187	111,260
Plus : Exports of goods and services	6,888,817	7,062,025	7,086,421	7,175,013	7,368,456	7,750,204	8,009,917	7,773,340
<i>Exports of goods (f.o.b)</i>	5,699,840	5,706,462	5,750,028	5,615,083	5,628,100	5,931,455	6,154,113	5,925,896
<i>Exports of services</i>	1,188,539	1,358,020	1,339,154	1,565,896	1,750,022	1,828,446	1,865,472	1,856,056
Less : Imports of goods and services	6,726,852	6,839,905	6,477,504	6,477,757	6,413,517	6,812,902	7,376,621	6,995,494
<i>Imports of goods (f.o.b)</i>	5,579,979	5,680,561	5,322,667	5,334,768	5,212,824	5,600,454	6,042,682	5,694,638
<i>Imports of services</i>	1,150,819	1,163,166	1,157,418	1,145,494	1,199,428	1,214,911	1,335,223	1,299,220
Expenditure on gross domestic product (sum up)	8,688,007	8,884,553	9,040,497	9,343,405	9,621,191	10,076,576	10,472,918	10,764,406
Residual (GDE (sum up) - GDE CVM)	-125,267	-139,221	-78,951	-66,221	-104,417	-36,592	-53,983	-6,847
% Residual (GDE sum up) to GDE CVM	-1.4	-1.5	-0.9	-0.7	-1.1	-0.4	-0.5	-0.1
Expenditure on gross domestic product	8,813,274	9,023,774	9,119,448	9,409,626	9,725,608	10,113,168	10,526,901	10,771,253
Gross domestic product, (GDP)	8,902,824	9,142,077	9,232,089	9,521,426	9,848,502	10,259,941	10,689,791	10,932,066

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)**

	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Private final consumption expenditure	146.8	148.2	149.0	152.9	157.3	162.2	169.6	176.3
General government final consumption expenditure	183.7	186.5	191.7	196.6	200.8	201.3	206.7	210.1
Gross fixed capital formation	184.1	182.2	178.2	186.0	191.3	194.8	202.2	206.2
Change in inventories								
Plus : Exports of goods and services	196.9	201.8	202.5	205.1	210.6	221.5	228.9	222.2
<i>Exports of goods (f.o.b)</i>	200.9	201.1	202.6	197.9	198.3	209.0	216.9	208.8
<i>Exports of services</i>	179.7	205.3	202.5	236.8	264.6	276.5	282.1	280.7
Less : Imports of goods and services	214.6	218.2	206.7	206.7	204.6	217.4	235.4	223.2
<i>Imports of goods (f.o.b)</i>	228.3	232.4	217.7	218.2	213.2	229.1	247.2	232.9
<i>Imports of services</i>	166.9	168.7	167.8	166.1	173.9	176.2	193.6	188.4
Expenditure on gross domestic product	156.0	159.8	161.5	166.6	172.2	179.1	186.4	190.7
Gross domestic product, (GDP)	154.3	158.5	160.0	165.0	170.7	177.8	185.3	189.5

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

	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p	Percent
Private final consumption expenditure	7.3	1.0	0.5	2.6	2.9	3.1	4.6	4.0	
General government final consumption expenditure	7.2	1.5	2.8	2.5	2.2	0.3	2.6	1.7	
Gross fixed capital formation	10.7	-1.0	-2.2	4.4	2.9	1.8	3.8	2.0	
Change in inventories									
Plus : Exports of goods and services	3.7	2.5	0.3	1.3	2.7	5.2	3.4	-3.0	
<i>Exports of goods (f.o.b)</i>	2.2	0.1	0.8	-2.3	0.2	5.4	3.8	-3.7	
<i>Exports of services</i>	11.6	14.3	-1.4	16.9	11.8	4.5	2.0	-0.5	
Less : Imports of goods and services	5.6	1.7	-5.3	0.0	-1.0	6.2	8.3	-5.2	
<i>Imports of goods (f.o.b)</i>	7.1	1.8	-6.3	0.2	-2.3	7.4	7.9	-5.8	
<i>Imports of services</i>	-1.1	1.1	-0.5	-1.0	4.7	1.3	9.9	-2.7	
Expenditure on gross domestic product	7.0	2.4	1.1	3.2	3.4	4.0	4.1	2.3	
Gross domestic product, (GDP)	7.2	2.7	1.0	3.1	3.4	4.2	4.2	2.3	

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

	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p	Percent
Private final consumption expenditure	3.9	0.5	0.3	1.4	1.5	1.5	2.2	1.9	
General government final consumption expenditure	1.2	0.3	0.5	0.4	0.4	0.0	0.4	0.3	
Gross fixed capital formation	2.8	-0.3	-0.6	1.1	0.7	0.4	0.9	0.5	
Change in inventories	0.3	1.0	-2.8	-0.6	-1.5	1.9	2.8	-1.3	
Plus : Exports of goods and services	2.6	1.7	0.2	0.9	1.8	3.5	2.2	-1.9	
<i>Exports of goods (f.o.b)</i>	1.3	0.1	0.4	-1.3	0.1	2.8	1.9	-1.8	
<i>Exports of services</i>	1.3	1.7	-0.2	2.2	1.7	0.7	0.3	-0.1	
Less : Imports of goods and services	3.9	1.2	-3.5	0.0	-0.6	3.3	4.5	-2.9	
<i>Imports of goods (f.o.b)</i>	4.0	1.0	-3.4	0.1	-1.1	3.2	3.5	-2.6	
<i>Imports of services</i>	-0.1	0.1	-0.1	-0.1	0.5	0.1	1.0	-0.3	
Expenditure on gross domestic product	6.9	2.3	1.0	3.2	3.4	4.0	4.1	2.3	
Gross domestic product, (GDP)	7.2	2.7	1.0	3.1	3.4	4.2	4.2	2.3	

*Gross Domestic Product
(Production)*

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

(Millions of Baht)

	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Agriculture	1,421,602	1,462,283	1,334,795	1,219,420	1,236,981	1,302,041	1,339,566	1,374,987
Agriculture, forestry and fishing	1,421,602	1,462,283	1,334,795	1,219,420	1,236,981	1,302,041	1,339,566	1,374,987
Non-agriculture	10,935,742	11,452,876	11,895,511	12,524,058	13,353,356	14,186,623	15,029,145	15,523,099
<i>Industrial</i>	4,273,733	4,420,724	4,526,819	4,592,338	4,791,853	5,029,209	5,278,188	5,258,973
Mining and quarrying	483,427	496,562	495,627	431,425	399,753	386,153	416,991	412,917
Manufacturing	3,456,693	3,563,122	3,648,058	3,762,150	3,960,437	4,184,233	4,373,462	4,330,684
Electricity, gas, steam and air conditioning supply	291,725	313,431	331,412	343,430	373,038	396,457	422,023	445,875
Water supply; sewerage, waste management and remediation activities	41,888	47,609	51,722	55,333	58,625	62,366	65,712	69,497
<i>Services</i>	6,662,009	7,032,152	7,368,692	7,931,720	8,561,503	9,157,414	9,750,957	10,264,126
Construction	340,956	344,786	337,043	379,940	400,376	394,729	410,132	419,070
Wholesale and retail trade; repair of motor vehicles and motorcycles	1,709,703	1,729,206	1,816,182	1,966,439	2,187,129	2,379,660	2,581,763	2,744,347
Transportation and storage	666,331	693,603	720,581	779,135	864,556	920,641	956,709	986,056
Accommodation and food service activities	413,291	472,928	497,777	600,218	696,810	817,326	921,858	1,029,004
Information and communication	265,239	290,854	301,427	327,394	337,483	361,815	386,823	433,002
Financial and insurance activities	744,615	871,377	961,263	1,037,966	1,120,954	1,181,246	1,240,452	1,269,567
Real estate activities	317,770	319,055	324,590	332,488	354,175	377,355	400,033	417,751
Professional, scientific and technical activities	258,785	266,926	267,745	261,390	254,947	274,638	284,809	290,708
Administrative and support service activities	227,941	234,426	231,496	237,026	240,493	251,605	262,616	271,102
Public administration and defence; compulsory social security	732,534	765,985	802,790	843,417	881,905	917,355	957,152	992,934
Education	503,346	528,167	565,146	594,280	612,300	629,952	651,316	672,288
Human health and social work activities	235,802	250,812	270,681	288,404	307,429	328,165	351,180	370,089
Arts, entertainment and recreation	60,357	65,422	65,640	70,145	81,153	91,070	102,411	116,551
Other service activities	162,716	175,308	181,557	185,669	193,690	204,434	216,333	223,593
Activities of households as employers	22,623	23,297	24,774	27,809	28,103	27,423	27,370	28,064
Gross Domestic Product, (GDP)	12,357,344	12,915,159	13,230,306	13,743,478	14,590,337	15,488,664	16,368,711	16,898,086
Plus : Net primary income from the rest of the world	-566,198	-825,489	-680,697	-708,973	-685,365	-693,851	-793,104	-622,512
Gross National Income, (GNI) ^{1/}	11,791,146	12,089,670	12,549,609	13,034,505	13,904,972	14,794,813	15,575,607	16,275,574
Less : Consumption of fixed capital	1,958,158	2,084,525	2,214,196	2,344,834	2,488,386	2,628,663	2,774,244	2,911,468
Net National Income, (NNI)	9,832,988	10,005,145	10,335,413	10,689,671	11,416,586	12,166,150	12,801,363	13,364,106
Per capita GDP (Baht)	185,159	192,327	195,807	202,152	213,553	225,126	236,860	243,787
Per capita GNI (Baht)	176,675	180,034	185,733	191,723	203,521	215,041	225,384	234,806
Population (1,000 Heads)	66,739	67,152	67,568	67,986	68,322	68,800	69,107	69,315

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

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

(Millions of Baht)

	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Agriculture	1,432,087	1,473,403	1,350,216	1,231,908	1,249,157	1,307,451	1,342,781	1,380,873
Agriculture, forestry and fishing	1,432,087	1,473,403	1,350,216	1,231,908	1,249,157	1,307,451	1,342,781	1,380,873
Non-agriculture	9,640,702	10,101,879	10,609,969	11,107,930	11,887,638	12,654,745	13,389,808	13,865,291
<i>Industrial</i>	<i>3,649,058</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>4,478,222</i>	<i>4,438,019</i>
Mining and quarrying	404,734	409,178	413,451	364,614	339,761	327,469	352,793	346,690
Manufacturing	2,948,468	3,028,467	3,171,404	3,156,421	3,329,918	3,540,236	3,673,989	3,610,140
Electricity, gas, steam and air conditioning supply	255,634	275,402	294,216	311,475	343,285	366,288	388,154	414,019
Water supply; sewerage, waste management and remediation activities	40,222	45,578	50,005	53,653	56,808	60,186	63,286	67,170
<i>Services</i>	<i>5,991,644</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>8,911,586</i>	<i>9,427,272</i>
Construction	311,791	316,566	304,563	346,034	364,174	357,251	370,811	380,078
Wholesale and retail trade; repair of motor vehicles and motorcycles	1,287,403	1,339,604	1,429,304	1,572,302	1,766,249	1,936,216	2,121,835	2,285,823
Transportation and storage	655,375	680,226	710,558	769,473	851,658	904,046	941,105	970,642
Accommodation and food service activities	402,049	458,667	484,520	585,837	680,951	798,458	901,528	1,009,465
Information and communication	251,529	265,039	285,132	307,382	323,425	345,691	366,129	411,462
Financial and insurance activities	702,801	821,296	916,512	984,873	1,067,757	1,127,188	1,184,599	1,210,372
Real estate activities	254,284	245,462	239,352	254,946	277,512	288,657	304,026	324,807
Professional, scientific and technical activities	229,623	236,284	233,252	224,870	219,995	238,257	247,588	254,701
Administrative and support service activities	183,924	184,700	177,327	178,761	186,266	197,606	207,356	219,344
Public administration and defence; compulsory social security	732,534	765,985	802,790	843,417	881,905	917,355	957,152	992,934
Education	524,395	552,668	592,437	620,754	636,274	653,939	675,823	696,639
Human health and social work activities	234,416	249,362	269,170	286,849	305,716	326,304	349,011	367,819
Arts, entertainment and recreation	41,262	48,681	48,812	52,891	55,260	59,808	65,815	77,158
Other service activities	157,635	155,417	162,390	165,569	172,621	182,367	191,438	197,964
Activities of households as employers	22,623	23,297	24,774	27,809	28,103	27,423	27,370	28,064
Gross domestic product, (GDP)	11,072,789	11,575,282	11,960,185	12,339,838	13,136,795	13,962,196	14,732,589	15,246,164

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

	(Millions of Baht)							
	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Agriculture	655,755	660,364	658,463	615,884	608,753	638,106	675,336	671,013
Agriculture, forestry and fishing	655,755	660,364	658,463	615,884	608,753	638,106	675,336	671,013
Non-agriculture	8,268,856	8,512,404	8,610,047	8,972,643	9,320,993	9,704,832	10,096,775	10,351,766
<i>Industrial</i>	<i>3,118,300</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>3,476,318</i>	<i>3,476,566</i>
Mining and quarrying	237,723	242,838	238,871	244,576	246,599	231,893	225,099	228,955
Manufacturing	2,581,224	2,629,744	2,630,605	2,670,312	2,730,588	2,809,907	2,906,773	2,886,790
Electricity, gas, steam and air conditioning supply	262,120	257,165	265,070	277,958	286,156	291,273	297,760	311,489
Water supply; sewerage, waste management and remediation activities	36,151	38,763	39,830	43,419	46,681	49,776	52,839	55,927
<i>Services</i>	<i>5,158,855</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>6,644,576</i>	<i>6,902,961</i>
Construction	235,808	235,098	229,389	268,506	289,919	281,274	287,666	292,304
Wholesale and retail trade; repair of motor vehicles and motorcycles	1,270,509	1,280,384	1,270,224	1,340,744	1,423,314	1,514,519	1,611,393	1,683,690
Transportation and storage	538,898	566,749	584,038	607,677	639,932	691,372	719,250	740,891
Accommodation and food service activities	383,693	420,918	431,370	496,112	542,053	600,672	647,917	698,500
Information and communication	368,592	403,823	425,195	468,111	479,365	497,972	539,740	606,140
Financial and insurance activities	498,628	560,159	602,103	652,506	698,410	744,929	772,047	788,756
Real estate activities	328,441	331,765	339,124	344,220	368,471	393,071	414,464	430,061
Professional, scientific and technical activities	201,072	204,638	202,429	199,458	194,998	207,217	212,966	216,659
Administrative and support service activities	166,525	168,445	163,710	169,527	172,062	177,330	183,068	188,109
Public administration and defence; compulsory social security	492,985	495,464	502,006	507,469	509,645	513,565	521,430	528,591
Education	311,032	316,795	323,739	324,311	323,600	324,971	328,197	332,049
Human health and social work activities	184,775	191,678	202,005	208,554	214,831	223,611	234,364	242,693
Arts, entertainment and recreation	56,228	60,845	61,046	66,670	80,861	90,652	101,746	116,353
Other service activities	125,052	132,434	135,403	139,542	144,950	151,937	158,319	163,082
Activities of households as employers	19,117	17,731	16,946	17,580	17,564	17,072	16,633	16,535
Gross domestic product (sum up)	8,954,328	9,215,800	9,321,566	9,663,136	10,018,752	10,451,119	10,907,007	11,198,587
Residual (GDP (sum up) - GDP CVM)	51,504	73,723	89,477	141,710	170,250	191,178	217,216	266,521
% Residual (GDP sum up) to GDP CVM	0.6	0.8	1.0	1.5	1.7	1.9	2.0	2.4
Gross domestic product, (CVM)^{1/}	8,902,824	9,142,077	9,232,089	9,521,426	9,848,502	10,259,941	10,689,791	10,932,066
Gross National Income (GNI), CVM^{2/}	8,507,163	8,573,608	8,776,274	9,040,508	9,384,589	9,791,579	10,159,260	10,512,248

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)**

	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Agriculture	130.8	131.7	131.3	122.8	121.4	127.2	134.7	133.8
Agriculture, forestry and fishing	130.8	131.7	131.3	122.8	121.4	127.2	134.7	133.8
Non-agriculture	157.0	161.6	163.4	170.3	176.9	184.2	191.7	196.5
<i>Industrial</i>	<i>158.9</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>177.2</i>
Mining and quarrying	173.5	177.2	174.3	178.5	180.0	169.2	164.3	167.1
Manufacturing	156.9	159.8	159.9	162.3	166.0	170.8	176.7	175.5
Electricity, gas, steam and air conditioning supply	171.6	168.3	173.5	181.9	187.3	190.7	194.9	203.9
Water supply; sewerage, waste management and remediation activities	134.2	143.9	147.9	161.2	173.3	184.8	196.2	207.6
<i>Services</i>	<i>156.0</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>208.8</i>
Construction	141.4	141.0	137.6	161.1	173.9	168.7	172.5	175.3
Wholesale and retail trade; repair of motor vehicles and motorcycles	140.3	141.4	140.3	148.1	157.2	167.2	177.9	185.9
Transportation and storage	144.5	151.9	156.6	162.9	171.5	185.3	192.8	198.6
Accommodation and food service activities	176.9	194.1	198.9	228.8	250.0	277.0	298.8	322.1
Information and communication	260.1	285.0	300.1	330.3	338.3	351.4	380.9	427.7
Financial and insurance activities	180.3	202.5	217.7	235.9	252.5	269.3	279.1	285.1
Real estate activities	142.8	144.2	147.4	149.6	160.2	170.9	180.2	186.9
Professional, scientific and technical activities	205.2	208.9	206.6	203.6	199.0	211.5	217.4	221.1
Administrative and support service activities	172.7	174.7	169.8	175.9	178.5	184.0	189.9	195.1
Public administration and defence; compulsory social security	144.7	145.5	147.4	149.0	149.6	150.8	153.1	155.2
Education	144.9	147.5	150.8	151.0	150.7	151.4	152.9	154.7
Human health and social work activities	155.1	160.9	169.6	175.1	180.3	187.7	196.7	203.7
Arts, entertainment and recreation	235.8	255.2	256.1	279.6	339.2	380.2	426.8	488.0
Other service activities	146.5	155.2	158.7	163.5	169.9	178.0	185.5	191.1
Activities of households as employers	108.6	100.7	96.2	99.8	99.8	97.0	94.5	93.9
Gross domestic product, (GDP)	154.3	158.5	160.0	165.0	170.7	177.8	185.3	189.5
Gross National Income (GNI), CVM	152.8	154.0	157.7	162.4	168.6	175.9	182.5	188.8

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

	Percent							
	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Agriculture	2.7	0.7	-0.3	-6.5	-1.2	4.8	5.8	-0.6
Agriculture, forestry and fishing	2.7	0.7	-0.3	-6.5	-1.2	4.8	5.8	-0.6
Non-agriculture	7.8	2.9	1.1	4.2	3.9	4.1	4.0	2.5
<i>Industrial</i>	<i>7.2</i>	<i>1.7</i>	<i>0.1</i>	<i>1.9</i>	<i>2.2</i>	<i>2.1</i>	<i>2.9</i>	<i>0.0</i>
Mining and quarrying	7.7	2.2	-1.6	2.4	0.8	-6.0	-2.9	1.7
Manufacturing	6.9	1.9	0.0	1.5	2.3	2.9	3.4	-0.7
Electricity, gas, steam and air conditioning supply	10.3	-1.9	3.1	4.9	2.9	1.8	2.2	4.6
Water supply; sewerage, waste management and remediation activities	8.3	7.2	2.8	9.0	7.5	6.6	6.2	5.8
<i>Services</i>	<i>8.2</i>	<i>3.7</i>	<i>1.8</i>	<i>5.6</i>	<i>4.8</i>	<i>5.2</i>	<i>4.7</i>	<i>3.9</i>
Construction	7.9	-0.3	-2.4	17.1	8.0	-3.0	2.3	1.6
Wholesale and retail trade; repair of motor vehicles and motorcycles	5.2	0.8	-0.8	5.6	6.2	6.4	6.4	4.5
Transportation and storage	8.4	5.2	3.1	4.0	5.3	8.0	4.0	3.0
Accommodation and food service activities	14.1	9.7	2.5	15.0	9.3	10.8	7.9	7.8
Information and communication	8.8	9.6	5.3	10.1	2.4	3.9	8.4	12.3
Financial and insurance activities	15.3	12.3	7.5	8.4	7.0	6.7	3.6	2.2
Real estate activities	2.9	1.0	2.2	1.5	7.0	6.7	5.4	3.8
Professional, scientific and technical activities	17.2	1.8	-1.1	-1.5	-2.2	6.3	2.8	1.7
Administrative and support service activities	16.5	1.2	-2.8	3.6	1.5	3.1	3.2	2.8
Public administration and defence; compulsory social security	4.2	0.5	1.3	1.1	0.4	0.8	1.5	1.4
Education	4.9	1.9	2.2	0.2	-0.2	0.4	1.0	1.2
Human health and social work activities	5.9	3.7	5.4	3.2	3.0	4.1	4.8	3.6
Arts, entertainment and recreation	18.3	8.2	0.3	9.2	21.3	12.1	12.2	14.4
Other service activities	12.0	5.9	2.2	3.1	3.9	4.8	4.2	3.0
Activities of households as employers	2.3	-7.3	-4.4	3.7	-0.1	-2.8	-2.6	-0.6
Gross domestic product, (GDP)	7.2	2.7	1.0	3.1	3.4	4.2	4.2	2.3
Gross National Income (GNI), CVM	4.9	0.8	2.4	3.0	3.8	4.3	3.8	3.5

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

	Percent							
	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Agriculture	0.3	0.1	0.0	-0.7	-0.1	0.4	0.5	-0.1
Agriculture, forestry and fishing	0.3	0.1	0.0	-0.7	-0.1	0.4	0.5	-0.1
Non-agriculture	6.9	2.6	1.0	3.8	3.5	3.8	3.7	2.3
<i>Industrial</i>	<i>2.6</i>	<i>0.6</i>	<i>0.0</i>	<i>0.7</i>	<i>0.7</i>	<i>0.7</i>	<i>0.9</i>	<i>0.0</i>
Mining and quarrying	0.3	0.1	-0.1	0.1	0.0	-0.2	-0.1	0.0
Manufacturing	2.0	0.5	0.0	0.4	0.6	0.8	0.9	-0.2
Electricity, gas, steam and air conditioning supply	0.2	0.0	0.1	0.1	0.1	0.0	0.1	0.1
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>	<i>4.4</i>	<i>2.0</i>	<i>1.0</i>	<i>3.1</i>	<i>2.8</i>	<i>3.1</i>	<i>2.8</i>	<i>2.3</i>
Construction	0.2	0.0	-0.1	0.4	0.2	-0.1	0.1	0.0
Wholesale and retail trade; repair of motor vehicles and motorcycles	0.7	0.1	-0.1	0.8	0.9	1.0	1.0	0.7
Transportation and storage	0.5	0.3	0.2	0.2	0.3	0.5	0.2	0.2
Accommodation and food service activities	0.4	0.3	0.1	0.6	0.4	0.5	0.4	0.4
Information and communication	0.2	0.2	0.1	0.2	0.1	0.1	0.2	0.3
Financial and insurance activities	0.9	0.7	0.5	0.6	0.5	0.5	0.3	0.2
Real estate activities	0.1	0.0	0.1	0.0	0.2	0.2	0.1	0.1
Professional, scientific and technical activities	0.3	0.0	0.0	0.0	0.0	0.1	0.0	0.0
Administrative and support service activities	0.3	0.0	-0.1	0.1	0.0	0.1	0.1	0.0
Public administration and defence; compulsory social security	0.2	0.0	0.1	0.1	0.0	0.0	0.1	0.1
Education	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0
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	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.1
Other service activities	0.2	0.1	0.0	0.0	0.1	0.1	0.1	0.0
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)	7.2	2.7	1.0	3.1	3.4	4.2	4.2	2.3

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

(Millions of Baht)

	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Crop and animal production, hunting and related service activities	1,298,258	1,349,641	1,213,571	1,104,801	1,114,435	1,179,168	1,210,879	1,241,157
Forestry and logging	10,283	9,901	11,269	11,593	12,626	11,897	12,280	12,032
Fishing and aquaculture	113,061	102,741	109,955	103,026	109,920	110,976	116,407	121,798
Total value added	1,421,602	1,462,283	1,334,795	1,219,420	1,236,981	1,302,041	1,339,566	1,374,987

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

(Millions of Baht)

	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Crop and animal production, hunting and related service activities	498,300	505,212	508,470	477,126	470,305	497,229	527,197	522,437
Forestry and logging	8,096	7,375	7,961	8,101	8,741	8,059	8,236	7,961
Fishing and aquaculture	140,311	131,494	113,953	101,822	102,575	99,617	103,777	106,247
Total value added	655,755	660,364	658,463	615,884	608,753	638,106	675,336	671,013

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)**

	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Crop and animal production, hunting and related service activities	129.0	130.8	131.6	123.5	121.7	128.7	136.5	135.2
Forestry and logging	120.2	109.5	118.2	120.2	129.7	119.6	122.3	118.2
Fishing and aquaculture	129.4	121.3	105.1	93.9	94.6	91.9	95.7	98.0
Total value added	130.8	131.7	131.3	122.8	121.4	127.2	134.7	133.8

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

Percent

	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Crop and animal production, hunting and related service activities	3.6	1.4	0.6	-6.2	-1.4	5.7	6.0	-0.9
Forestry and logging	-4.5	-8.9	7.9	1.8	7.9	-7.8	2.2	-3.3
Fishing and aquaculture	-6.0	-6.3	-13.3	-10.6	0.7	-2.9	4.2	2.4
Total value added	2.7	0.7	-0.3	-6.5	-1.2	4.8	5.8	-0.6

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

(Millions of Baht)

	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Mining of coal and lignite	12,874	12,938	12,744	11,368	12,155	12,034	11,865	10,575
Extraction of crude petroleum and natural gas	416,860	430,493	428,433	357,965	309,723	302,890	336,604	330,243
Mining of metal ores	7,238	6,113	6,545	4,180	5,302	1,347	79	53
Other mining and quarrying	46,455	47,018	47,905	57,912	72,573	69,882	68,443	72,046
Total value added	483,427	496,562	495,627	431,425	399,753	386,153	416,991	412,917

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

(Millions of Baht)

	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Mining of coal and lignite	6,505	6,545	6,509	5,470	5,721	5,786	5,806	5,088
Extraction of crude petroleum and natural gas	191,971	197,156	193,575	198,766	199,318	188,646	182,984	186,739
Mining of metal ores	1,601	1,568	1,668	1,131	1,342	349	22	16
Other mining and quarrying	34,626	34,054	33,613	36,761	37,570	35,771	35,260	36,149
Total value added	237,723	242,838	238,871	244,576	246,599	231,893	225,099	228,955

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)**

	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Mining of coal and lignite	87.0	87.5	87.1	73.2	76.5	77.4	77.7	68.1
Extraction of crude petroleum and natural gas	186.0	191.1	187.6	192.6	193.2	182.8	177.3	181.0
Mining of metal ores	71.3	69.8	74.3	50.4	59.8	15.5	1.0	0.7
Other mining and quarrying	143.5	141.2	139.3	152.4	155.7	148.3	146.2	149.9
Total value added	173.5	177.2	174.3	178.5	180.0	169.2	164.3	167.1

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

Percent

	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Mining of coal and lignite	-15.3	0.6	-0.6	-16.0	4.6	1.1	0.3	-12.4
Extraction of crude petroleum and natural gas	8.8	2.7	-1.8	2.7	0.3	-5.4	-3.0	2.1
Mining of metal ores	36.8	-2.1	6.4	-32.2	18.7	-74.0	-93.7	-27.3
Other mining and quarrying	4.2	-1.7	-1.3	9.4	2.2	-4.8	-1.4	2.5
Total value added	7.7	2.2	-1.6	2.4	0.8	-6.0	-2.9	1.7

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

(Millions of Baht)

	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Food products	511,169	520,315	526,674	532,958	601,977	604,140	627,063	611,481
Beverages	242,332	261,252	274,971	286,228	285,269	275,400	277,708	310,490
Tobacco products	59,704	60,050	58,198	56,424	51,333	42,766	35,670	33,200
Textiles	119,156	119,755	118,529	114,327	110,144	106,749	103,423	96,132
Wearing apparel	79,339	76,391	79,607	78,951	85,596	94,177	101,424	102,196
Leather and related products	34,762	39,854	43,441	41,036	42,606	45,321	47,687	48,103
Wood and products of wood and cork	37,100	38,593	42,553	43,295	46,817	47,218	46,193	47,409
Paper and paper products	52,461	50,821	52,178	52,402	53,440	55,370	58,402	57,451
Printing and reproduction of recorded media	12,057	11,841	11,552	11,478	11,554	11,748	11,718	11,058
Coke and refined petroleum products	203,996	237,021	269,519	310,945	395,980	440,648	497,987	493,570
Chemicals and chemical products	263,205	277,598	296,089	326,200	318,854	355,497	394,925	371,028
Basic pharmaceutical products and pharmaceutical preparations	27,946	31,973	33,838	35,568	38,528	41,181	45,965	49,856
Rubber and plastics products	249,528	250,830	245,173	264,573	281,080	326,847	301,517	286,819
Non-metallic mineral products	142,571	151,940	151,052	148,621	148,880	144,229	150,873	156,292
Basic metals	63,621	65,453	68,132	60,793	63,163	67,621	67,805	59,616
Fabricated metal products, except machinery and equipment	101,923	101,122	105,823	110,410	118,874	127,883	136,712	138,526
Computer, electronic and optical products	346,078	345,172	387,943	367,282	332,931	381,791	397,032	390,940
Electrical equipment	152,603	165,465	186,095	185,753	199,390	193,466	196,922	204,898
Machinery and equipment not elsewhere classified	146,023	151,677	149,263	160,332	162,307	176,644	185,154	183,390
Motor vehicles, trailers and semi-trailers	333,777	337,886	287,410	300,730	326,952	341,363	379,465	364,798
Other transport equipment	94,117	86,863	80,411	90,633	95,928	108,568	109,964	112,079
Furniture	30,471	32,119	31,788	33,203	32,783	35,272	35,396	34,910
Other manufacturing	151,243	147,576	146,173	148,192	153,770	158,476	162,256	164,156
Repair and installation of machinery and equipment	1,511	1,555	1,646	1,816	2,281	1,858	2,201	2,286
Total value added	3,456,693	3,563,122	3,648,058	3,762,150	3,960,437	4,184,233	4,373,462	4,330,684

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

(Millions of Baht)

	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Food products	330,926	326,661	335,690	333,035	338,054	340,421	366,602	357,095
Beverages	189,675	198,046	201,606	209,670	208,408	209,788	201,368	220,919
Tobacco products	35,615	35,862	34,690	33,707	30,631	25,467	21,248	19,727
Textiles	97,842	99,546	98,732	94,684	91,136	87,916	85,272	78,997
Wearing apparel	87,969	83,936	86,966	85,617	80,333	77,873	81,091	79,424
Leather and related products	33,277	37,059	40,113	37,821	39,368	41,116	43,178	44,872
Wood and products of wood and cork	28,343	29,563	32,403	32,634	35,247	37,788	36,370	37,144
Paper and paper products	45,756	43,998	45,463	45,579	46,314	46,837	48,458	48,426
Printing and reproduction of recorded media	8,721	8,499	8,306	7,894	7,588	7,712	7,913	7,759
Coke and refined petroleum products	110,645	113,893	117,393	126,783	127,933	134,169	139,810	134,003
Chemicals and chemical products	145,797	155,143	157,551	164,931	170,222	178,020	185,866	188,786
Basic pharmaceutical products and pharmaceutical preparations	26,652	30,338	32,124	33,746	36,536	39,003	43,537	47,100
Rubber and plastics products	137,671	143,344	145,817	154,656	158,628	171,973	165,095	157,633
Non-metallic mineral products	114,249	120,161	118,587	114,749	114,513	113,828	117,070	120,754
Basic metals	45,146	47,135	49,268	48,606	51,525	53,820	53,988	48,971
Fabricated metal products, except machinery and equipment	73,317	72,662	76,435	79,822	86,220	92,443	98,678	99,937
Computer, electronic and optical products	305,133	298,035	313,509	304,333	309,642	341,204	361,060	361,918
Electrical equipment	134,019	135,705	138,176	134,996	143,175	137,635	140,710	147,533
Machinery and equipment not elsewhere classified	132,769	137,651	134,931	140,451	141,831	154,327	162,177	161,385
Motor vehicles, trailers and semi-trailers	298,801	310,248	254,144	266,288	285,774	291,873	318,098	301,886
Other transport equipment	89,809	84,412	77,055	75,886	84,655	83,230	84,964	87,578
Furniture	23,590	24,648	24,174	25,045	24,685	26,483	26,507	26,157
Other manufacturing	76,451	78,849	79,448	81,309	81,684	81,233	83,714	83,624
Repair and installation of machinery and equipment	1,362	1,384	1,450	1,584	1,778	1,749	2,052	2,111
Total value added	2,581,224	2,629,744	2,630,605	2,670,312	2,730,588	2,809,907	2,906,773	2,886,790

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)

	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Food products	151.1	149.1	153.2	152.0	154.3	155.4	167.3	163.0
Beverages	167.5	174.9	178.0	185.2	184.0	185.3	177.8	195.1
Tobacco products	102.9	103.7	100.3	97.4	88.5	73.6	61.4	57.0
Textiles	83.1	84.5	83.8	80.4	77.4	74.6	72.4	67.1
Wearing apparel	86.2	82.2	85.2	83.9	78.7	76.3	79.5	77.8
Leather and related products	89.8	100.0	108.3	102.1	106.2	111.0	116.5	121.1
Wood and products of wood and cork	145.2	151.5	166.0	167.2	180.6	193.6	186.3	190.3
Paper and paper products	119.1	114.5	118.3	118.6	120.5	121.9	126.1	126.0
Printing and reproduction of recorded media	110.1	107.3	104.9	99.7	95.8	97.4	99.9	98.0
Coke and refined petroleum products	93.1	95.8	98.7	106.6	107.6	112.8	117.6	112.7
Chemicals and chemical products	170.3	181.2	184.0	192.6	198.8	207.9	217.1	220.5
Basic pharmaceutical products and pharmaceutical preparations	139.2	158.5	167.8	176.3	190.8	203.7	227.4	246.0
Rubber and plastics products	152.5	158.7	161.5	171.3	175.7	190.5	182.8	174.6
Non-metallic mineral products	142.1	149.5	147.5	142.8	142.5	141.6	145.6	150.2
Basic metals	102.0	106.5	111.3	109.8	116.4	121.6	122.0	110.7
Fabricated metal products, except machinery and equipment	120.8	119.7	125.9	131.5	142.0	152.3	162.5	164.6
Computer, electronic and optical products	250.0	244.1	256.8	249.3	253.7	279.5	295.8	296.5
Electrical equipment	208.1	210.7	214.5	209.6	222.3	213.7	218.5	229.0
Machinery and equipment not elsewhere classified	237.1	245.8	240.9	250.8	253.3	275.6	289.6	288.2
Motor vehicles, trailers and semi-trailers	347.8	361.1	295.8	310.0	332.7	339.8	370.3	351.4
Other transport equipment	222.2	208.9	190.7	187.8	209.5	205.9	210.2	216.7
Furniture	125.3	130.9	128.4	133.0	131.1	140.7	140.8	138.9
Other manufacturing	112.7	116.2	117.1	119.8	120.4	119.7	123.4	123.2
Repair and installation of machinery and equipment	184.3	187.3	196.2	214.3	240.6	236.7	277.7	285.7
Total value added	156.9	159.8	159.9	162.3	166.0	170.8	176.7	175.5

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

	Percent							
	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Food products	3.7	-1.3	2.8	-0.8	1.5	0.7	7.7	-2.6
Beverages	18.6	4.4	1.8	4.0	-0.6	0.7	-4.0	9.7
Tobacco products	-1.5	0.7	-3.3	-2.8	-9.1	-16.9	-16.6	-7.2
Textiles	-4.1	1.7	-0.8	-4.1	-3.7	-3.5	-3.0	-7.4
Wearing apparel	-8.4	-4.6	3.6	-1.6	-6.2	-3.1	4.1	-2.1
Leather and related products	-8.5	11.4	8.2	-5.7	4.1	4.4	5.0	3.9
Wood and products of wood and cork	2.0	4.3	9.6	0.7	8.0	7.2	-3.8	2.1
Paper and paper products	1.5	-3.8	3.3	0.3	1.6	1.1	3.5	-0.1
Printing and reproduction of recorded media	-1.5	-2.5	-2.3	-5.0	-3.9	1.6	2.6	-1.9
Coke and refined petroleum products	4.6	2.9	3.1	8.0	0.9	4.9	4.2	-4.2
Chemicals and chemical products	7.2	6.4	1.6	4.7	3.2	4.6	4.4	1.6
Basic pharmaceutical products and pharmaceutical preparations	9.9	13.8	5.9	5.0	8.3	6.8	11.6	8.2
Rubber and plastics products	13.4	4.1	1.7	6.1	2.6	8.4	-4.0	-4.5
Non-metallic mineral products	9.0	5.2	-1.3	-3.2	-0.2	-0.6	2.8	3.1
Basic metals	2.8	4.4	4.5	-1.3	6.0	4.5	0.3	-9.3
Fabricated metal products, except machinery and equipment	4.0	-0.9	5.2	4.4	8.0	7.2	6.7	1.3
Computer, electronic and optical products	-9.1	-2.3	5.2	-2.9	1.7	10.2	5.8	0.2
Electrical equipment	10.5	1.3	1.8	-2.3	6.1	-3.9	2.2	4.8
Machinery and equipment not elsewhere classified	6.1	3.7	-2.0	4.1	1.0	8.8	5.1	-0.5
Motor vehicles, trailers and semi-trailers	51.3	3.8	-18.1	4.8	7.3	2.1	9.0	-5.1
Other transport equipment	5.3	-6.0	-8.7	-1.5	11.6	-1.7	2.1	3.1
Furniture	0.1	4.5	-1.9	3.6	-1.4	7.3	0.1	-1.3
Other manufacturing	2.1	3.1	0.8	2.3	0.5	-0.6	3.1	-0.1
Repair and installation of machinery and equipment	7.3	1.6	4.8	9.2	12.2	-1.6	17.3	2.9
Total value added	6.9	1.9	0.0	1.5	2.3	2.9	3.4	-0.7

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

(Millions of Baht)

	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Electric power generation, transmission and distribution	267,864	292,649	305,348	320,690	342,598	355,233	379,620	422,886
Manufacture of gas; distribution of gaseous fuels through mains	23,861	20,782	26,064	22,740	30,440	41,224	42,403	22,989
Total value added	291,725	313,431	331,412	343,430	373,038	396,457	422,023	445,875

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

(Millions of Baht)

	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Electric power generation, transmission and distribution	243,655	240,846	247,987	258,484	264,165	267,519	274,668	288,363
Manufacture of gas; distribution of gaseous fuels through mains	15,272	13,719	14,351	16,107	18,291	19,684	19,368	19,611
Total value added	262,120	257,165	265,070	277,958	286,156	291,273	297,760	311,489

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)**

	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Electric power generation, transmission and distribution	166.6	164.6	169.5	176.7	180.6	182.9	187.7	197.1
Manufacture of gas; distribution of gaseous fuels through mains	235.7	211.7	221.5	248.6	282.3	303.8	298.9	302.7
Total value added	171.6	168.3	173.5	181.9	187.3	190.7	194.9	203.9

**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

	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Electric power generation, transmission and distribution	11.0	-1.2	3.0	4.2	2.2	1.3	2.7	5.0
Manufacture of gas; distribution of gaseous fuels through mains	5.0	-10.2	4.6	12.2	13.6	7.6	-1.6	1.3
Total value added	10.3	-1.9	3.1	4.9	2.9	1.8	2.2	4.6

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

(Millions of Baht)

	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Water collection and supply	35,219	39,409	41,824	43,758	45,240	47,110	47,994	50,326
Waste collection, treatment and disposal activities; materials recovery	6,669	8,200	9,898	11,575	13,385	15,256	17,718	19,171
Total value added	41,888	47,609	51,722	55,333	58,625	62,366	65,712	69,497

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

(Millions of Baht)

	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Water collection and supply	30,021	31,183	31,024	33,296	35,039	36,758	38,017	39,878
Waste collection, treatment and disposal activities; materials recovery	6,125	7,650	9,058	10,520	12,218	13,742	15,746	17,070
Total value added	36,151	38,763	39,830	43,419	46,681	49,776	52,839	55,927

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)**

	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Water collection and supply	125.2	130.0	129.3	138.8	146.1	153.3	158.5	166.3
Waste collection, treatment and disposal activities; materials recovery	207.5	259.1	306.8	356.4	413.9	465.5	533.4	578.3
Total value added	134.2	143.9	147.9	161.2	173.3	184.8	196.2	207.6

**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

	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Water collection and supply	6.0	3.9	-0.5	7.3	5.2	4.9	3.4	4.9
Waste collection, treatment and disposal activities; materials recovery	21.9	24.9	18.4	16.1	16.1	12.5	14.6	8.4
Total value added	8.3	7.2	2.8	9.0	7.5	6.6	6.2	5.8

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

(Millions of Baht)

	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Private construction	163,217	172,500	165,642	162,381	159,667	159,848	168,720	172,202
Public construction	177,739	172,286	171,401	217,559	240,709	234,881	241,412	246,868
Total value added	340,956	344,786	337,043	379,940	400,376	394,729	410,132	419,070

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

(Millions of Baht)

	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Private construction	114,821	119,020	114,525	115,490	116,279	114,607	119,024	120,604
Public construction	120,308	115,572	114,325	151,730	172,088	165,195	167,171	170,200
Total value added	235,808	235,098	229,389	268,506	289,919	281,274	287,666	292,304

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)**

	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Private construction	174.5	180.8	174.0	175.5	176.7	174.1	180.8	183.2
Public construction	119.2	114.5	113.3	150.4	170.5	163.7	165.7	168.7
Total value added	141.4	141.0	137.6	161.1	173.9	168.7	172.5	175.3

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

Percent

	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Private construction	7.3	3.7	-3.8	0.8	0.7	-1.4	3.9	1.3
Public construction	8.5	-3.9	-1.1	32.7	13.4	-4.0	1.2	1.8
Total value added	7.9	-0.3	-2.4	17.1	8.0	-3.0	2.3	1.6

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

(Millions of Baht)

	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Trade and repair of motor vehicles and motorcycles	174,191	165,227	154,973	157,198	170,733	186,515	207,353	216,933
Trade, except of motor vehicles and motorcycles	1,535,512	1,563,979	1,661,209	1,809,241	2,016,396	2,193,145	2,374,410	2,527,414
Total value added	1,709,703	1,729,206	1,816,182	1,966,439	2,187,129	2,379,660	2,581,763	2,744,347

**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)

	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Trade and repair of motor vehicles and motorcycles	168,819	169,863	158,580	161,986	167,968	176,957	197,480	205,933
Trade, except of motor vehicles and motorcycles	1,106,475	1,115,297	1,113,335	1,178,681	1,253,798	1,335,258	1,414,765	1,478,492
Total value added	1,270,509	1,280,384	1,270,224	1,340,744	1,423,314	1,514,519	1,611,393	1,683,690

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)**

	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Trade and repair of motor vehicles and motorcycles	195.4	196.6	183.6	187.5	194.5	204.9	228.6	238.4
Trade, except of motor vehicles and motorcycles	135.1	136.1	135.9	143.9	153.1	163.0	172.7	180.5
Total value added	140.3	141.4	140.3	148.1	157.2	167.2	177.9	185.9

**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

	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Trade and repair of motor vehicles and motorcycles	27.6	0.6	-6.6	2.1	3.7	5.4	11.6	4.3
Trade, except of motor vehicles and motorcycles	3.0	0.8	-0.2	5.9	6.4	6.5	6.0	4.5
Total value added	5.2	0.8	-0.8	5.6	6.2	6.4	6.4	4.5

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

(Millions of Baht)

	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Land transport and transport via pipelines	273,405	273,097	294,872	312,973	354,305	376,326	386,220	400,789
Water transport	119,717	127,987	135,351	147,693	151,448	154,991	160,127	163,232
Air transport	130,506	135,154	129,037	144,481	167,223	182,292	181,425	173,457
Warehousing and support activities for transportation	120,503	134,067	136,277	148,170	160,545	170,138	185,908	197,556
Postal and courier activities	22,200	23,298	25,044	25,818	31,035	36,894	43,029	51,022
Total value added	666,331	693,603	720,581	779,135	864,556	920,641	956,709	986,056

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

(Millions of Baht)

	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Land transport and transport via pipelines	195,125	196,278	203,521	196,135	200,460	214,880	219,661	224,225
Water transport	95,798	101,382	107,924	114,690	119,062	120,224	125,012	125,756
Air transport	143,843	156,434	156,646	175,322	200,281	237,820	238,537	238,863
Warehousing and support activities for transportation	86,665	96,085	96,787	108,208	111,538	115,776	126,501	134,630
Postal and courier activities	15,694	16,619	17,800	17,742	20,284	23,611	27,618	32,507
Total value added	538,898	566,749	584,038	607,677	639,932	691,372	719,250	740,891

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)**

	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Land transport and transport via pipelines	112.5	113.2	117.4	113.1	115.6	123.9	126.7	129.3
Water transport	196.0	207.4	220.8	234.6	243.5	245.9	255.7	257.2
Air transport	148.6	161.6	161.8	181.1	206.9	245.7	246.4	246.8
Warehousing and support activities for transportation	192.6	213.6	215.1	240.5	247.9	257.3	281.2	299.3
Postal and courier activities	174.5	184.8	197.9	197.2	225.5	262.5	307.0	361.4
Total value added	144.5	151.9	156.6	162.9	171.5	185.3	192.8	198.6

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

Percent

	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Land transport and transport via pipelines	5.1	0.6	3.7	-3.6	2.2	7.2	2.2	2.1
Water transport	3.7	5.8	6.5	6.3	3.8	1.0	4.0	0.6
Air transport	16.0	8.8	0.1	11.9	14.2	18.7	0.3	0.1
Warehousing and support activities for transportation	13.6	10.9	0.7	11.8	3.1	3.8	9.3	6.4
Postal and courier activities	8.4	5.9	7.1	-0.3	14.3	16.4	17.0	17.7
Total value added	8.4	5.2	3.1	4.0	5.3	8.0	4.0	3.0

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

(Millions of Baht)

	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Accommodation	172,636	203,553	207,497	265,728	311,783	368,051	416,937	455,122
Food and beverage service activities	240,655	269,375	290,280	334,490	385,027	449,275	504,921	573,882
Total value added	413,291	472,928	497,777	600,218	696,810	817,326	921,858	1,029,004

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

(Millions of Baht)

	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Accommodation	172,439	194,769	201,348	244,609	265,235	291,193	311,753	332,598
Food and beverage service activities	212,350	228,004	232,125	256,214	281,625	314,425	341,229	371,026
Total value added	383,693	420,918	431,370	496,112	542,053	600,672	647,917	698,500

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)**

	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Accommodation	216.6	244.6	252.9	307.2	333.1	365.7	391.5	417.7
Food and beverage service activities	154.8	166.2	169.2	186.7	205.2	229.1	248.7	270.4
Total value added	176.9	194.1	198.9	228.8	250.0	277.0	298.8	322.1

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

Percent

	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Accommodation	23.5	12.9	3.4	21.5	8.4	9.8	7.1	6.7
Food and beverage service activities	7.7	7.4	1.8	10.4	9.9	11.6	8.5	8.7
Total value added	14.1	9.7	2.5	15.0	9.3	10.8	7.9	7.8

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

(Millions of Baht)

	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Publishing activities	13,537	14,417	14,455	16,397	17,441	15,972	14,471	13,712
Motion picture, video and television programme production, sound recording and music publishing activities	6,633	7,454	7,645	8,630	8,751	8,770	9,003	9,207
Programming and broadcasting activities	24,886	27,614	27,594	27,844	27,223	27,571	27,680	28,118
Telecommunications	157,798	164,889	166,270	179,459	183,855	202,056	222,136	265,575
Computer programming, consultancy and related activities	60,609	74,194	82,788	92,047	96,750	103,565	108,878	111,042
Information service activities	1,776	2,286	2,675	3,017	3,463	3,881	4,655	5,348
Total value added	265,239	290,854	301,427	327,394	337,483	361,815	386,823	433,002

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

(Millions of Baht)

	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Publishing activities	12,474	12,875	12,862	14,503	15,401	14,222	13,099	12,449
Motion picture, video and television programme production, sound recording and music publishing activities	4,778	5,351	5,431	6,151	6,162	6,149	6,285	6,380
Programming and broadcasting activities	18,244	19,823	19,449	19,810	19,335	19,432	19,311	19,485
Telecommunications	307,507	325,932	342,511	376,620	381,929	398,348	450,888	543,943
Computer programming, consultancy and related activities	45,260	54,259	59,445	66,716	70,004	74,361	77,383	78,390
Information service activities	1,326	1,670	1,919	2,185	2,503	2,783	3,305	3,773
Total value added	368,592	403,823	425,195	468,111	479,365	497,972	539,740	606,140

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)**

	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Publishing activities	116.2	119.9	119.8	135.1	143.5	132.5	122.0	116.0
Motion picture, video and television programme production, sound recording and music publishing activities	102.8	115.1	116.8	132.3	132.5	132.2	135.2	137.2
Programming and broadcasting activities	123.0	133.6	131.1	133.5	130.3	131.0	130.2	131.3
Telecommunications	317.1	336.1	353.2	388.4	393.9	410.8	465.0	561.0
Computer programming, consultancy and related activities	328.6	393.9	431.5	484.3	508.2	539.8	561.8	569.1
Information service activities	176.8	222.7	255.9	291.3	333.7	371.1	440.7	503.1
Total value added	260.1	285.0	300.1	330.3	338.3	351.4	380.9	427.7

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

Percent

	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Publishing activities	-0.6	3.2	-0.1	12.8	6.2	-7.7	-7.9	-5.0
Motion picture, video and television programme production, sound recording and music publishing activities	6.3	12.0	1.5	13.3	0.2	-0.2	2.2	1.5
Programming and broadcasting activities	-1.8	8.7	-1.9	1.9	-2.4	0.5	-0.6	0.9
Telecommunications	10.8	6.0	5.1	10.0	1.4	4.3	13.2	20.6
Computer programming, consultancy and related activities	11.4	19.9	9.6	12.2	4.9	6.2	4.1	1.3
Information service activities	-6.1	25.9	14.9	13.9	14.6	11.2	18.8	14.2
Total value added	8.8	9.6	5.3	10.1	2.4	3.9	8.4	12.3

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

(Millions of Baht)

	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Financial service activities	605,715	694,738	766,535	825,929	872,096	916,368	953,556	979,559
Insurance, reinsurance and pension funding	109,289	133,372	154,538	171,988	204,467	216,709	234,189	239,224
Activities auxiliary to financial service and insurance activities	29,611	43,267	40,190	40,049	44,391	48,169	52,707	50,784
Total value added	744,615	871,377	961,263	1,037,966	1,120,954	1,181,246	1,240,452	1,269,567

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

(Millions of Baht)

	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Financial service activities	389,034	426,102	455,833	492,212	513,978	549,750	564,152	579,243
Insurance, reinsurance and pension funding	80,302	96,031	110,516	124,147	147,399	155,011	165,749	168,275
Activities auxiliary to financial service and insurance activities	21,758	31,145	28,734	28,901	31,993	34,446	37,294	35,713
Total value added	498,628	560,159	602,103	652,506	698,410	744,929	772,047	788,756

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)**

	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Financial service activities	187.2	205.0	219.3	236.8	247.3	264.5	271.4	278.7
Insurance, reinsurance and pension funding	153.0	183.0	210.6	236.6	280.9	295.4	315.9	320.7
Activities auxiliary to financial service and insurance activities	133.4	191.0	176.2	177.2	196.2	211.2	228.7	219.0
Total value added	180.3	202.5	217.7	235.9	252.5	269.3	279.1	285.1

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

Percent

	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Financial service activities	16.6	9.5	7.0	8.0	4.4	7.0	2.6	2.7
Insurance, reinsurance and pension funding	12.5	19.6	15.1	12.3	18.7	5.2	6.9	1.5
Activities auxiliary to financial service and insurance activities	1.0	43.1	-7.7	0.6	10.7	7.7	8.3	-4.2
Total value added	15.3	12.3	7.5	8.4	7.0	6.7	3.6	2.2

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

(Millions of Baht)

	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Real estate activities with own or leased property	279,198	280,267	288,137	296,728	316,689	339,204	358,902	377,359
Real estate activities on a fee or contract basis	38,572	38,788	36,453	35,760	37,486	38,151	41,131	40,392
Total value added	317,770	319,055	324,590	332,488	354,175	377,355	400,033	417,751

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

(Millions of Baht)

	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Real estate activities with own or leased property	297,340	301,213	311,926	317,662	340,437	364,679	383,974	401,077
Real estate activities on a fee or contract basis	28,800	28,483	26,360	26,056	27,623	28,429	30,360	29,672
Total value added	328,441	331,765	339,124	344,220	368,471	393,071	414,464	430,061

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)**

	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Real estate activities with own or leased property	137.5	139.3	144.3	146.9	157.5	168.7	177.6	185.5
Real estate activities on a fee or contract basis	208.1	205.8	190.4	188.3	199.6	205.4	219.3	214.4
Total value added	142.8	144.2	147.4	149.6	160.2	170.9	180.2	186.9

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

Percent

	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Real estate activities with own or leased property	1.9	1.3	3.6	1.8	7.2	7.1	5.3	4.5
Real estate activities on a fee or contract basis	11.3	-1.1	-7.5	-1.2	6.0	2.9	6.8	-2.3
Total value added	2.9	1.0	2.2	1.5	7.0	6.7	5.4	3.8

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

(Millions of Baht)

	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Legal and accounting activities	11,368	11,202	12,464	13,476	14,539	15,499	16,020	16,420
Activities of head offices; management consultancy activities	176,407	185,227	185,916	178,109	173,651	188,049	197,127	202,041
Architectural and engineering activities; technical testing and analysis	16,975	17,098	16,647	17,120	17,095	17,927	18,360	18,250
Scientific research and development	26,137	25,809	25,370	24,198	23,569	26,151	26,778	27,223
Advertising and market research	12,354	12,907	13,398	13,496	13,040	14,046	14,107	14,226
Other professional, scientific and technical activities	15,158	14,292	13,444	14,371	12,321	12,039	11,306	11,238
Veterinary activities	386	391	506	620	732	927	1,111	1,310
Total value added	258,785	266,926	267,745	261,390	254,947	274,638	284,809	290,708

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

(Millions of Baht)

	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Legal and accounting activities	8,489	8,235	9,023	9,859	10,658	11,200	11,462	11,702
Activities of head offices; management consultancy activities	131,730	136,107	134,535	130,239	127,233	135,822	140,973	143,917
Architectural and engineering activities; technical testing and analysis	12,676	12,560	12,044	12,516	12,523	12,945	13,127	12,996
Scientific research and development	19,538	18,975	18,369	17,705	17,279	18,898	19,161	19,403
Advertising and market research	9,222	9,486	9,697	9,871	9,556	10,147	10,090	10,136
Other professional, scientific and technical activities	22,686	22,103	21,050	22,254	19,262	18,853	17,937	18,057
Veterinary activities	350	356	456	551	647	809	962	1,129
Total value added	201,072	204,638	202,429	199,458	194,998	207,217	212,966	216,659

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)

	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Legal and accounting activities	123.8	120.1	131.6	143.8	155.5	163.4	167.2	170.7
Activities of head offices; management consultancy activities	177.7	183.6	181.5	175.7	171.7	183.3	190.2	194.2
Architectural and engineering activities; technical testing and analysis	210.3	208.4	199.8	207.6	207.7	214.7	217.8	215.6
Scientific research and development	4,742.2	4,605.6	4,458.5	4,297.3	4,193.9	4,586.9	4,650.7	4,709.5
Advertising and market research	151.4	155.7	159.2	162.1	156.9	166.6	165.7	166.4
Other professional, scientific and technical activities	525.5	512.0	487.6	515.5	446.2	436.7	415.5	418.3
Veterinary activities	231.8	235.8	302.0	364.9	428.5	535.8	637.1	747.7
Total value added	205.2	208.9	206.6	203.6	199.0	211.5	217.4	221.1

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

Percent

	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Legal and accounting activities	-0.2	-3.0	9.6	9.3	8.1	5.1	2.3	2.1
Activities of head offices; management consultancy activities	12.6	3.3	-1.2	-3.2	-2.3	6.8	3.8	2.1
Architectural and engineering activities; technical testing and analysis	13.5	-0.9	-4.1	3.9	0.1	3.4	1.4	-1.0
Scientific research and development	86.8	-2.9	-3.2	-3.6	-2.4	9.4	1.4	1.3
Advertising and market research	3.9	2.9	2.2	1.8	-3.2	6.2	-0.6	0.5
Other professional, scientific and technical activities	29.0	-2.6	-4.8	5.7	-13.4	-2.1	-4.9	0.7
Veterinary activities	24.6	1.7	28.1	20.8	17.4	25.0	18.9	17.4
Total value added	17.2	1.8	-1.1	-1.5	-2.2	6.3	2.8	1.7

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

(Millions of Baht)

	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Rental and leasing activities	78,521	80,993	75,325	74,741	73,670	73,324	76,128	77,865
Employment activities	9,414	10,021	10,262	11,396	11,938	12,370	12,755	13,070
Travel agency, tour operator, reservation service and related activities	33,251	37,159	37,028	40,672	44,155	52,294	57,374	61,090
Security and investigation activities	11,259	12,031	12,689	13,931	14,824	15,346	15,899	16,695
Services to buildings and landscape activities	15,449	16,633	17,035	17,712	18,850	19,558	20,221	20,799
Office administrative, office support and other business support activities	80,047	77,589	79,157	78,574	77,056	78,713	80,239	81,583
Total value added	227,941	234,426	231,496	237,026	240,493	251,605	262,616	271,102

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

(Millions of Baht)

	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Rental and leasing activities	58,634	59,506	54,507	54,668	53,963	52,945	54,406	55,410
Employment activities	7,030	7,368	7,431	8,341	8,750	8,938	9,121	9,307
Travel agency, tour operator, reservation service and related activities	21,228	23,250	22,709	25,296	27,334	31,807	34,433	36,447
Security and investigation activities	8,403	8,840	9,183	10,190	10,860	11,082	11,363	11,882
Services to buildings and landscape activities	11,522	12,214	12,324	12,952	13,805	14,120	14,448	14,798
Office administrative, office support and other business support activities	59,770	57,036	57,313	57,505	56,476	56,870	57,378	58,090
Total value added	166,525	168,445	163,710	169,527	172,062	177,330	183,068	188,109

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)**

	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Rental and leasing activities	154.0	156.3	143.2	143.6	141.8	139.1	142.9	145.6
Employment activities	347.8	364.6	367.7	412.7	433.0	442.3	451.3	460.5
Travel agency, tour operator, reservation service and related activities	141.0	154.4	150.8	168.0	181.5	211.2	228.7	242.0
Security and investigation activities	278.1	292.5	303.9	337.2	359.4	366.7	376.0	393.2
Services to buildings and landscape activities	176.7	187.3	189.0	198.7	211.7	216.6	221.6	227.0
Office administrative, office support and other business support activities	188.5	179.9	180.8	181.4	178.1	179.4	181.0	183.2
Total value added	172.7	174.7	169.8	175.9	178.5	184.0	189.9	195.1

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

Percent

	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Rental and leasing activities	13.0	1.5	-8.4	0.3	-1.3	-1.9	2.8	1.8
Employment activities	20.6	4.8	0.9	12.2	4.9	2.1	2.0	2.0
Travel agency, tour operator, reservation service and related activities	14.8	9.5	-2.3	11.4	8.1	16.4	8.3	5.8
Security and investigation activities	15.7	5.2	3.9	11.0	6.6	2.0	2.5	4.6
Services to buildings and landscape activities	8.0	6.0	0.9	5.1	6.6	2.3	2.3	2.4
Office administrative, office support and other business support activities	22.4	-4.6	0.5	0.3	-1.8	0.7	0.9	1.2
Total value added	16.5	1.2	-2.8	3.6	1.5	3.1	3.2	2.8

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

(Millions of Baht)

	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Creative, arts and entertainment activities	1,870	2,129	2,020	2,205	2,117	2,138	2,183	2,218
Libraries, archives, museums and other cultural activities	261	267	324	387	415	430	412	376
Gambling and betting activities	38,184	38,867	38,713	38,570	48,192	57,255	66,911	79,544
Sport activities and amusement and recreation activities	20,042	24,159	24,583	28,983	30,429	31,247	32,905	34,413
Total value added	60,357	65,422	65,640	70,145	81,153	91,070	102,411	116,551

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

(Millions of Baht)

	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Creative, arts and entertainment activities	1,794	2,043	1,932	2,106	2,021	2,040	2,081	2,099
Libraries, archives, museums and other cultural activities	324	325	399	467	498	520	507	461
Gambling and betting activities	27,995	27,888	27,266	28,561	38,507	45,432	52,542	62,641
Sport activities and amusement and recreation activities	29,014	36,010	37,706	43,799	46,162	47,862	51,162	54,050
Total value added	56,228	60,845	61,046	66,670	80,861	90,652	101,746	116,353

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)**

	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Creative, arts and entertainment activities	287.5	327.4	309.6	337.5	323.9	326.9	333.5	336.4
Libraries, archives, museums and other cultural activities	95.3	95.6	117.4	137.4	146.5	152.9	149.1	135.6
Gambling and betting activities	222.7	221.8	216.9	227.2	306.3	361.3	417.9	498.2
Sport activities and amusement and recreation activities	281.6	349.5	365.9	425.1	448.0	464.5	496.5	524.6
Total value added	235.8	255.2	256.1	279.6	339.2	380.2	426.8	488.0

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

Percent

	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Creative, arts and entertainment activities	14.6	13.9	-5.4	9.0	-4.0	0.9	2.0	0.9
Libraries, archives, museums and other cultural activities	19.6	0.3	22.8	17.0	6.6	4.4	-2.5	-9.1
Gambling and betting activities	16.6	-0.4	-2.2	4.7	34.8	18.0	15.6	19.2
Sport activities and amusement and recreation activities	21.8	24.1	4.7	16.2	5.4	3.7	6.9	5.6
Total value added	18.3	8.2	0.3	9.2	21.3	12.1	12.2	14.4

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

(Millions of Baht)

	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Activities of membership organizations	25,008	27,297	28,086	28,759	29,155	30,280	31,797	31,984
Repair of computers and personal and household goods	75,152	79,556	82,241	83,900	88,027	94,195	99,539	104,395
Other personal service activities	62,556	68,455	71,230	73,010	76,508	79,959	84,997	87,214
Total value added	162,716	175,308	181,557	185,669	193,690	204,434	216,333	223,593

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

(Millions of Baht)

	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Activities of membership organizations	18,297	19,540	19,735	20,395	20,634	21,288	22,118	22,093
Repair of computers and personal and household goods	58,005	60,469	61,927	64,176	67,661	72,047	74,674	78,429
Other personal service activities	48,309	51,953	53,278	54,492	56,211	58,199	61,087	62,195
Total value added	125,052	132,434	135,403	139,542	144,950	151,937	158,319	163,082

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)

	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Activities of membership organizations	213.8	228.4	230.6	238.3	241.1	248.8	258.5	258.2
Repair of computers and personal and household goods	216.7	225.9	231.3	239.7	252.7	269.1	278.9	292.9
Other personal service activities	96.6	103.9	106.5	109.0	112.4	116.4	122.2	124.4
Total value added	146.5	155.2	158.7	163.5	169.9	178.0	185.5	191.1

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

Percent

	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Activities of membership organizations	17.6	6.8	1.0	3.3	1.2	3.2	3.9	-0.1
Repair of computers and personal and household goods	13.6	4.2	2.4	3.6	5.4	6.5	3.6	5.0
Other personal service activities	8.1	7.5	2.6	2.3	3.2	3.5	5.0	1.8
Total value added	12.0	5.9	2.2	3.1	3.9	4.8	4.2	3.0

Gross Domestic Product
(Expenditure)

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

(Millions of Baht)

	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Individual consumption expenditure of households	7,117,384	7,502,260	7,643,857	7,959,989	8,310,891	8,811,308	9,237,920	9,675,927
Food and non-alcoholic	1,800,731	1,858,282	1,917,188	1,961,940	2,038,672	2,061,402	2,091,895	2,211,271
Food	1,568,172	1,616,657	1,669,734	1,710,676	1,784,477	1,804,992	1,825,223	1,934,771
Bread and cereals	359,854	361,517	376,621	380,171	387,110	386,122	394,248	419,519
Meat	182,280	194,167	212,389	215,353	221,986	222,618	218,083	230,891
Fish	194,336	202,566	195,350	199,793	208,266	215,204	215,800	223,761
Milk, cheese and eggs	126,582	141,814	144,778	140,695	147,765	151,743	156,611	157,910
Oil and fat	85,604	85,098	91,302	89,637	83,462	85,254	82,732	82,142
Fruit	147,069	153,732	158,888	163,158	171,016	178,307	187,984	199,970
Vegetables	369,611	372,524	380,903	408,782	449,152	446,836	446,885	489,669
Sugar, jam, honey, chocolate and confectionery	49,568	51,098	52,807	53,958	53,915	54,987	55,660	57,957
Food products n.e.c.	53,268	54,141	56,696	59,129	61,805	63,921	67,220	72,952
Non-alcoholic beverages	232,559	241,625	247,454	251,264	254,195	256,410	266,672	276,500
Alcoholic beverages, tobacco and narcotic	249,956	255,988	264,832	270,515	281,891	287,214	289,185	291,797
Alcoholic beverages	174,266	172,575	178,588	184,085	181,524	180,667	176,742	181,263
Tobacco	75,690	83,413	86,244	86,430	100,367	106,547	112,443	110,534
Clothing and footwear	337,151	333,514	333,965	348,188	363,489	371,511	382,354	392,898
Clothing	310,476	304,331	303,211	315,305	329,545	336,975	347,092	356,799
Footwear	26,675	29,183	30,754	32,883	33,944	34,536	35,262	36,099
Housing, water, electricity, gas and other fuels	620,357	646,148	687,411	718,604	737,130	766,719	799,986	839,745
Housing and water	429,903	441,515	465,375	490,782	512,892	542,686	566,643	586,304
Electricity, gas and other fuels	190,454	204,633	222,036	227,822	224,238	224,033	233,343	253,441
Furnishings, households equipment and routine maintenance of the house	307,570	308,190	318,740	332,920	334,813	342,918	359,610	369,200
Furniture and furnishings, carpets and other floor covering	25,215	25,390	25,469	26,686	26,572	27,117	28,798	29,110
Households equipment and routine maintenance of the house	282,355	282,800	293,271	306,234	308,241	315,801	330,812	340,090
Health	310,393	329,353	343,909	358,763	378,323	393,782	414,681	435,605
Transport	1,235,889	1,265,225	1,129,091	1,065,411	1,069,580	1,191,956	1,298,181	1,316,171
Purchase of vehicles	484,882	480,754	331,077	302,467	307,901	369,883	420,017	422,130
Operation of personal transport equipment	426,781	447,849	456,596	408,970	407,185	452,859	494,306	496,593
Transport services	324,226	336,622	341,418	353,974	354,494	369,214	383,858	397,448
Communication	150,069	155,176	156,451	162,153	165,564	175,327	184,058	190,148
Recreation and culture	356,053	383,395	386,418	393,524	454,055	486,072	513,344	528,043
Audio-visual, photographic and information processing equipment	88,385	88,017	87,343	73,874	73,517	78,869	78,702	83,729
Other recreation and entertainment	213,686	237,113	239,975	262,387	325,478	354,117	381,775	392,424
Newspaper, books and stationery	53,982	58,265	59,100	57,263	55,060	53,086	52,867	51,890
Education	88,651	94,398	95,462	101,379	105,648	110,988	117,826	121,561
Restaurants and hotels	925,390	1,058,545	1,120,131	1,278,216	1,355,958	1,538,632	1,634,145	1,770,399
Miscellaneous goods and services	735,174	814,046	890,259	968,376	1,025,768	1,084,787	1,152,655	1,209,089
Personal care	131,241	140,988	153,215	169,966	176,784	189,010	194,441	208,172
Personal effects n.e.c.	154,313	163,120	182,164	214,836	238,174	258,206	280,564	301,751
Financial services	346,828	400,997	441,116	465,953	489,460	505,023	537,738	554,113
Other services n.e.c.	102,792	108,941	113,764	117,621	121,350	132,548	139,912	145,053
Individual consumption expenditure of non-profit institutions serving households (NPISHs)	122,135	132,065	144,252	144,725	145,949	149,527	152,836	158,180
Health, education, and social protection	67,757	72,135	77,503	77,342	77,148	82,240	84,225	86,678
Other services n.e.c.	54,378	59,930	66,749	67,383	68,801	67,287	68,611	71,502
Private final consumption expenditure in the domestic market	7,239,519	7,634,325	7,788,109	8,104,714	8,456,840	8,960,835	9,390,756	9,834,107
Plus : Expenditure of residents abroad	186,322	188,700	215,003	239,935	290,023	321,458	353,053	344,332
Less : Expenditure of non-residents in the country	843,281	1,035,821	1,044,473	1,288,103	1,450,311	1,703,558	1,739,056	1,772,468
Private final consumption expenditure	6,582,560	6,787,204	6,958,639	7,056,546	7,296,552	7,578,735	8,004,753	8,405,971

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

(Millions of Baht)

	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Individual consumption expenditure of households	5,141,167	5,308,082	5,306,412	5,574,451	5,790,310	6,096,216	6,333,302	6,566,408
Food and non-alcoholic	904,120	895,137	902,910	922,877	942,830	964,750	986,121	1,010,702
Food	721,116	709,685	715,023	732,320	750,117	769,318	785,357	803,601
Bread and cereals	171,541	171,841	177,905	179,856	183,788	185,854	186,585	188,848
Meat	111,234	110,768	112,225	116,748	119,880	123,366	123,639	124,189
Fish	116,980	108,242	97,869	98,943	100,143	101,296	101,412	102,552
Milk, cheese and eggs	83,863	88,994	89,645	90,029	92,279	95,922	99,089	98,871
Oil and fat	42,851	43,773	46,570	47,019	44,770	46,172	48,876	50,709
Fruit	43,677	43,029	43,964	44,704	45,035	47,157	50,851	53,164
Vegetables	96,119	91,233	92,796	97,560	103,191	106,571	108,582	112,485
Sugar, jam, honey, chocolate and confectionery	32,157	32,549	32,050	32,059	31,656	32,152	31,656	32,398
Food products n.e.c.	41,048	41,490	42,138	43,484	44,739	45,039	47,732	51,672
Non-alcoholic beverages	198,597	204,546	207,912	209,597	210,302	211,724	218,356	226,334
Alcoholic beverages, tobacco and narcotic	214,424	208,513	204,218	207,397	200,544	199,363	195,513	199,590
Alcoholic beverages	159,802	151,743	145,087	147,805	142,333	141,439	137,817	142,617
Tobacco	54,785	56,158	57,704	58,224	56,794	56,500	56,012	55,949
Clothing and footwear	300,378	290,835	284,688	288,308	295,285	301,711	305,382	310,879
Clothing	272,580	261,070	253,849	255,767	262,045	267,815	270,849	275,579
Footwear	28,558	31,126	32,586	34,659	35,382	36,064	36,798	37,654
Housing, water, electricity, gas and other fuels	564,773	574,489	595,425	623,768	650,268	677,521	699,039	727,923
Housing and water	422,150	430,276	449,072	467,279	486,145	512,492	532,224	548,990
Electricity, gas and other fuels	138,686	140,431	143,354	152,299	159,461	161,663	164,157	174,854
Furnishings, households equipment and routine maintenance of the house	288,697	287,094	292,501	301,948	303,081	312,445	328,434	338,764
Furniture and furnishings, carpets and other floor covering	25,685	26,116	25,748	26,629	26,326	27,388	29,403	30,068
Households equipment and routine maintenance of the house	262,354	260,374	266,047	274,595	275,988	284,290	298,291	307,903
Health	288,922	304,290	313,074	323,326	338,618	349,200	367,556	386,350
Transport	796,273	804,490	713,461	735,203	767,245	830,591	879,663	889,851
Purchase of vehicles	448,379	435,114	293,513	266,130	270,020	323,504	366,267	368,052
Operation of personal transport equipment	184,870	191,618	195,025	214,534	229,941	235,893	240,197	242,858
Transport services	226,127	234,163	237,871	251,541	260,525	272,858	282,661	288,193
Communication	185,408	196,805	217,781	231,361	236,490	250,854	263,006	271,904
Recreation and culture	341,943	366,552	365,174	372,687	433,406	462,654	484,765	497,510
Audio-visual, photographic and information processing equipment	100,356	99,558	98,379	82,794	81,825	87,695	88,089	94,300
Other recreation and entertainment	191,454	211,125	210,888	232,316	291,970	315,183	336,115	343,695
Newspaper, books and stationery	49,037	53,009	52,888	50,565	48,448	48,000	47,420	46,825
Education	85,247	90,151	90,239	94,088	95,519	98,168	103,210	107,268
Restaurants and hotels	712,109	794,734	814,304	915,296	964,207	1,066,212	1,111,948	1,196,259
Miscellaneous goods and services	513,986	570,631	610,497	669,442	692,665	731,140	772,656	803,553
Personal care	109,501	116,208	124,399	136,415	140,568	149,703	152,578	162,869
Personal effects n.e.c.	86,384	95,776	106,483	131,051	135,051	146,752	162,427	171,255
Financial services	238,546	274,577	292,373	307,492	319,608	329,098	345,061	353,792
Other services n.e.c.	75,241	78,037	79,977	84,419	86,931	94,324	98,516	101,419
Individual consumption expenditure of non-profit institutions serving households (NPISHs)	90,374	95,631	102,512	101,973	103,575	105,410	106,570	109,521
Health, education, and social protection	50,136	52,234	55,077	54,784	55,040	58,283	59,040	60,333
Other services n.e.c.	40,239	43,399	47,438	47,193	48,531	47,149	47,553	49,208
Private final consumption expenditure in the domestic market	5,231,478	5,403,594	5,408,649	5,676,266	5,893,735	6,201,534	6,439,830	6,675,901
Plus : Expenditure of residents abroad	145,124	143,833	160,884	181,197	218,528	240,633	261,521	253,265
Less : Expenditure of non-residents in the country	674,573	813,539	808,294	987,273	1,107,337	1,294,919	1,314,275	1,326,723
Private final consumption expenditure	4,714,916	4,759,900	4,785,280	4,909,901	5,051,349	5,207,330	5,445,590	5,660,992

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)

	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Individual consumption expenditure of households	153.4	158.4	158.4	166.4	172.8	181.9	189.0	196.0
Food and non-alcoholic	124.9	123.7	124.7	127.5	130.2	133.3	136.2	139.6
Food	117.1	115.2	116.1	118.9	121.8	124.9	127.5	130.5
Bread and cereals	115.4	115.6	119.7	121.0	123.6	125.0	125.5	127.0
Meat	128.4	127.9	129.5	134.8	138.4	142.4	142.7	143.4
Fish	148.3	137.3	124.1	125.5	127.0	128.5	128.6	130.0
Milk, cheese and eggs	117.7	124.9	125.8	126.3	129.5	134.6	139.0	138.7
Oil and fat	205.2	209.6	223.0	225.2	214.4	221.1	234.1	242.8
Fruit	80.2	79.0	80.7	82.1	82.7	86.6	93.3	97.6
Vegetables	109.7	104.1	105.9	111.3	117.8	121.6	123.9	128.4
Sugar, jam, honey, chocolate and confectionery	124.1	125.7	123.7	123.8	122.2	124.1	122.2	125.1
Food products n.e.c.	98.7	99.7	101.3	104.5	107.6	108.3	114.8	124.2
Non-alcoholic beverages	183.8	189.3	192.4	194.0	194.6	196.0	202.1	209.5
Alcoholic beverages, tobacco and narcotic	124.7	121.2	118.8	120.6	116.6	115.9	113.7	116.1
Alcoholic beverages	138.5	131.5	125.7	128.1	123.3	122.6	119.4	123.6
Tobacco	96.8	99.3	102.0	102.9	100.4	99.9	99.0	98.9
Clothing and footwear	126.4	122.4	119.8	121.3	124.3	127.0	128.5	130.8
Clothing	123.4	118.2	114.9	115.8	118.6	121.2	122.6	124.7
Footwear	170.9	186.2	195.0	207.4	211.7	215.8	220.1	225.3
Housing, water, electricity, gas and other fuels	148.6	151.2	156.7	164.1	171.1	178.3	184.0	191.6
Housing and water	142.7	145.5	151.8	158.0	164.4	173.3	179.9	185.6
Electricity, gas and other fuels	164.6	166.7	170.2	180.8	189.3	191.9	194.9	207.6
Furnishings, households equipment and routine maintenance of the house	185.9	184.9	188.4	194.5	195.2	201.2	211.5	218.2
Furniture and furnishings, carpets and other floor covering	95.6	97.2	95.8	99.1	98.0	101.9	109.4	111.9
Households equipment and routine maintenance of the house	204.3	202.8	207.2	213.9	215.0	221.4	232.3	239.8
Health	183.4	193.1	198.7	205.2	214.9	221.6	233.3	245.2
Transport	174.8	176.6	156.6	161.4	168.4	182.3	193.1	195.3
Purchase of vehicles	343.0	332.8	224.5	203.6	206.5	247.4	280.2	281.5
Operation of personal transport equipment	116.6	120.9	123.0	135.4	145.1	148.8	151.5	153.2
Transport services	135.9	140.8	143.0	151.2	156.6	164.0	169.9	173.2
Communication	204.4	217.0	240.1	255.0	260.7	276.5	289.9	299.7
Recreation and culture	191.2	204.9	204.2	208.4	242.3	258.6	271.0	278.1
Audio-visual, photographic and information processing equipment	157.7	156.5	154.6	130.1	128.6	137.8	138.5	148.2
Other recreation and entertainment	226.8	250.1	249.8	275.2	345.9	373.4	398.2	407.1
Newspaper, books and stationery	159.0	171.9	171.5	164.0	157.1	155.7	153.8	151.9
Education	149.8	158.4	158.6	165.4	167.9	172.5	181.4	188.5
Restaurants and hotels	165.9	185.2	189.7	213.3	224.7	248.4	259.1	278.7
Miscellaneous goods and services	164.2	182.3	195.1	213.9	221.3	233.6	246.9	256.8
Personal care	169.5	179.9	192.5	211.1	217.6	231.7	236.2	252.1
Personal effects n.e.c.	171.4	190.0	211.3	260.0	267.9	291.2	322.3	339.8
Financial services	182.3	209.8	223.4	235.0	244.2	251.5	263.7	270.3
Other services n.e.c.	112.2	116.4	119.3	125.9	129.6	140.7	146.9	151.2
Individual consumption expenditure of non-profit institutions serving households (NPISHs)	157.7	166.8	178.8	177.9	180.7	183.9	185.9	191.1
Health, education, and social protection	116.2	121.1	127.7	127.0	127.6	135.1	136.8	139.8
Other services n.e.c.	283.9	306.2	334.7	333.0	342.4	332.7	335.5	347.2
Private final consumption expenditure in the domestic market	153.5	158.6	158.7	166.6	172.9	182.0	189.0	195.9
Plus : Expenditure of residents abroad	127.7	126.5	141.5	159.4	192.2	211.7	230.1	222.8
Less : Expenditure of non-residents in the country	217.4	262.1	260.4	318.1	356.8	417.3	423.5	427.5
Private final consumption expenditure	146.8	148.2	149.0	152.9	157.3	162.2	169.6	176.3

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

	2012	2013	2014r	2015r	2016r	2017r	2018r	Percent 2019p
Individual consumption expenditure of households	7.4	3.2	0.0	5.1	3.9	5.3	3.9	3.7
Food and non-alcoholic	0.4	-1.0	0.9	2.2	2.2	2.3	2.2	2.5
<i>Food</i>	-0.4	-1.6	0.8	2.4	2.4	2.6	2.1	2.3
Bread and cereals	0.8	0.2	3.5	1.1	2.2	1.1	0.4	1.2
Meat	-0.8	-0.4	1.3	4.0	2.7	2.9	0.2	0.4
Fish	-2.5	-7.5	-9.6	1.1	1.2	1.2	0.1	1.1
Milk, cheese and eggs	-0.7	6.1	0.7	0.4	2.5	3.9	3.3	-0.2
Oil and fat	3.8	2.2	6.4	1.0	-4.8	3.1	5.9	3.8
Fruit	-1.4	-1.5	2.2	1.7	0.7	4.7	7.8	4.5
Vegetables	-0.5	-5.1	1.7	5.1	5.8	3.3	1.9	3.6
Sugar, jam, honey, chocolate and confectionery	-2.5	1.2	-1.5	0.0	-1.3	1.6	-1.5	2.3
Food products n.e.c.	-1.2	1.1	1.6	3.2	2.9	0.7	6.0	8.3
Non-alcoholic beverages	6.5	3.0	1.6	0.8	0.3	0.7	3.1	3.7
Alcoholic beverages, tobacco and narcotic	3.0	-2.8	-2.1	1.6	-3.3	-0.6	-1.9	2.1
Alcoholic beverages	5.9	-5.0	-4.4	1.9	-3.7	-0.6	-2.6	3.5
Tobacco	-3.2	2.5	2.8	0.9	-2.5	-0.5	-0.9	-0.1
Clothing and footwear	-0.3	-3.2	-2.1	1.3	2.4	2.2	1.2	1.8
Clothing	-0.4	-4.2	-2.8	0.8	2.5	2.2	1.1	1.7
Footwear	0.7	9.0	4.7	6.4	2.1	1.9	2.0	2.3
Housing, water, electricity, gas and other fuels	8.1	1.7	3.6	4.8	4.2	4.2	3.2	4.1
Housing and water	4.5	1.9	4.4	4.1	4.0	5.4	3.9	3.2
Electricity, gas and other fuels	17.8	1.3	2.1	6.2	4.7	1.4	1.5	6.5
Furnishings, households equipment and routine maintenance of the house	7.1	-0.6	1.9	3.2	0.4	3.1	5.1	3.1
Furniture and furnishings, carpets and other floor covering	3.9	1.7	-1.4	3.4	-1.1	4.0	7.4	2.3
Households equipment and routine maintenance of the house	7.4	-0.8	2.2	3.2	0.5	3.0	4.9	3.2
Health	4.8	5.3	2.9	3.3	4.7	3.1	5.3	5.1
Transport	19.7	1.0	-11.3	3.0	4.4	8.3	5.9	1.2
Purchase of vehicles	55.8	-3.0	-32.5	-9.3	1.5	19.8	13.2	0.5
Operation of personal transport equipment	5.2	3.7	1.8	10.0	7.2	2.6	1.8	1.1
Transport services	1.8	3.6	1.6	5.7	3.6	4.7	3.6	2.0
Communication	3.9	6.1	10.7	6.2	2.2	6.1	4.8	3.4
Recreation and culture	13.0	7.2	-0.4	2.1	16.3	6.7	4.8	2.6
Audio-visual, photographic and information processing equipment	12.2	-0.8	-1.2	-15.8	-1.2	7.2	0.4	7.1
Other recreation and entertainment	14.9	10.3	-0.1	10.2	25.7	8.0	6.6	2.3
Newspaper, books and stationery	6.8	8.1	-0.2	-4.4	-4.2	-0.9	-1.2	-1.3
Education	-0.4	5.8	0.1	4.3	1.5	2.8	5.1	3.9
Restaurants and hotels	8.6	11.6	2.5	12.4	5.3	10.6	4.3	7.6
Miscellaneous goods and services	10.5	11.0	7.0	9.7	3.5	5.6	5.7	4.0
Personal care	6.0	6.1	7.0	9.7	3.0	6.5	1.9	6.7
Personal effects n.e.c.	6.7	10.9	11.2	23.1	3.1	8.7	10.7	5.4
Financial services	15.8	15.1	6.5	5.2	3.9	3.0	4.9	2.5
Other services n.e.c.	5.4	3.7	2.5	5.6	3.0	8.5	4.4	2.9
Individual consumption expenditure of non-profit institutions serving households (NPISHs)	5.5	5.8	7.2	-0.5	1.6	1.8	1.1	2.8
Health, education, and social protection	2.0	4.2	5.4	-0.5	0.5	5.9	1.3	2.2
Other services n.e.c.	10.2	7.9	9.3	-0.5	2.8	-2.8	0.9	3.5
Private final consumption expenditure in the domestic market	7.4	3.3	0.1	4.9	3.8	5.2	3.8	3.7
Plus : Expenditure of residents abroad	15.4	-0.9	11.9	12.6	20.6	10.1	8.7	-3.2
Less : Expenditure of non-residents in the country	9.3	20.6	-0.6	22.1	12.2	16.9	1.5	0.9
Private final consumption expenditure	7.3	1.0	0.5	2.6	2.9	3.1	4.6	4.0

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

(Millions of Baht)

	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Individual consumption expenditure of households	7,117,384	7,502,260	7,643,857	7,959,989	8,310,891	8,811,308	9,237,920	9,675,927
Food and non-alcoholic	1,800,731	1,858,282	1,917,188	1,961,940	2,038,672	2,061,402	2,091,895	2,211,271
Non-durable goods	1,800,731	1,858,282	1,917,188	1,961,940	2,038,672	2,061,402	2,091,895	2,211,271
Alcoholic beverages, tobacco and narcotic	249,956	255,988	264,832	270,515	281,891	287,214	289,185	291,797
Non-durable goods	249,956	255,988	264,832	270,515	281,891	287,214	289,185	291,797
Clothing and footwear	337,151	333,514	333,965	348,188	363,489	371,511	382,354	392,898
Semi-durable goods	333,238	329,207	329,756	343,611	359,511	367,520	378,304	388,864
Services	3,913	4,307	4,209	4,577	3,978	3,991	4,050	4,034
Housing, water, electricity, gas and other fuels	620,357	646,148	687,411	718,604	737,130	766,719	799,986	839,745
Non-durable goods	224,030	241,003	262,268	268,818	265,714	266,507	276,479	297,963
Services	396,327	405,145	425,143	449,786	471,416	500,212	523,507	541,782
Furnishings, households equipment and routine maintenance of the house	307,570	308,190	318,740	332,920	334,813	342,918	359,610	369,200
Durable goods	71,641	71,549	72,043	73,998	73,860	74,124	75,945	77,420
Semi-durable goods	159,455	157,699	163,946	170,862	169,988	174,784	185,967	191,241
Non-durable goods	43,418	45,199	47,089	49,088	51,101	53,220	55,523	57,204
Services	33,056	33,743	35,662	38,972	39,864	40,790	42,175	43,335
Health	310,393	329,353	343,909	358,763	378,323	393,782	414,681	435,605
Durable goods	6,093	6,096	6,375	6,511	6,819	6,781	7,504	8,154
Non-durable goods	114,531	129,225	138,706	147,430	160,771	171,053	175,922	186,795
Services	189,769	194,032	198,828	204,822	210,733	215,948	231,255	240,656
Transport	1,235,889	1,265,225	1,129,091	1,065,411	1,069,580	1,191,956	1,298,181	1,316,171
Durable goods	484,882	480,754	331,077	302,467	307,901	369,883	420,017	422,130
Semi-durable goods	28,079	28,706	28,408	30,999	31,691	32,963	34,384	35,116
Non-durable goods	354,673	370,827	378,652	324,834	317,948	358,449	396,246	397,528
Services	368,255	384,938	390,954	407,111	412,040	430,661	447,534	461,397
Communication	150,069	155,176	156,451	162,153	165,564	175,327	184,058	190,148
Durable goods	6,535	7,306	7,497	7,467	7,543	7,658	7,757	7,951
Services	143,534	147,870	148,954	154,686	158,021	167,669	176,301	182,197
Recreation and culture	356,053	383,395	386,418	393,524	454,055	486,072	513,344	528,043
Durable goods	78,861	79,365	78,529	65,500	64,710	69,415	68,850	73,682
Semi-durable goods	43,056	43,204	43,656	44,085	41,346	43,088	44,780	42,141
Non-durable goods	39,058	43,166	42,880	40,530	41,715	39,866	39,774	39,968
Services	195,078	217,660	221,353	243,409	306,284	333,703	359,940	372,252
Education	88,651	94,398	95,462	101,379	105,648	110,988	117,826	121,561
Services	88,651	94,398	95,462	101,379	105,648	110,988	117,826	121,561
Restaurants and hotels	925,390	1,058,545	1,120,131	1,278,216	1,355,958	1,538,632	1,634,145	1,770,399
Services	925,390	1,058,545	1,120,131	1,278,216	1,355,958	1,538,632	1,634,145	1,770,399
Miscellaneous goods and services	735,174	814,046	890,259	968,376	1,025,768	1,084,787	1,152,655	1,209,089
Durable goods	123,157	130,220	134,886	154,960	173,172	192,099	209,547	226,647
Semi-durable goods	31,070	32,762	47,294	59,976	65,149	66,305	71,314	75,405
Non-durable goods	100,717	108,698	119,367	132,333	136,714	147,033	150,597	161,593
Services	480,230	542,366	588,712	621,107	650,733	679,350	721,197	745,444
Individual consumption expenditure of non-profit institutions serving households (NPISHs)	122,135	132,065	144,252	144,725	145,949	149,527	152,836	158,180
Semi-durable goods	794	961	1,092	1,115	1,091	1,020	977	971
Non-durable goods	21,691	22,851	24,483	25,808	25,915	26,637	27,115	27,879
Services	99,650	108,253	118,677	117,802	118,943	121,870	124,744	129,330
Private final consumption expenditure in the domestic market	7,239,519	7,634,325	7,788,109	8,104,714	8,456,840	8,960,835	9,390,756	9,834,107
Plus : Expenditure of residents abroad	186,322	188,700	215,003	239,935	290,023	321,458	353,053	344,332
Less : Expenditure of non-residents in the country	843,281	1,035,821	1,044,473	1,288,103	1,450,311	1,703,558	1,739,056	1,772,468
Private final consumption expenditure	6,582,560	6,787,204	6,958,639	7,056,546	7,296,552	7,578,735	8,004,753	8,405,971
Durable goods	771,169	775,291	630,408	610,904	634,005	719,961	789,620	815,985
Semi-durable goods	595,692	592,540	614,152	650,648	668,775	685,680	715,727	733,738
Non-durable goods	2,948,805	3,075,239	3,195,465	3,221,300	3,320,441	3,411,381	3,502,738	3,671,998
Services	2,266,894	2,344,134	2,518,614	2,573,694	2,673,331	2,761,713	2,996,668	3,184,250

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

(Millions of Baht)

	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Individual consumption expenditure of households	5,141,167	5,308,082	5,306,412	5,574,451	5,790,310	6,096,216	6,333,302	6,566,408
Food and non-alcoholic	904,120	895,137	902,910	922,877	942,830	964,750	986,121	1,010,702
Non-durable goods	904,120	895,137	902,910	922,877	942,831	964,751	986,121	1,010,702
Alcoholic beverages, tobacco and narcotic	214,424	208,513	204,218	207,397	200,544	199,363	195,513	199,590
Non-durable goods	214,424	208,513	204,218	207,397	200,545	199,364	195,514	199,590
Clothing and footwear	300,378	290,835	284,688	288,308	295,285	301,711	305,382	310,879
Semi-durable goods	296,690	286,829	280,796	284,164	291,682	298,086	301,783	307,315
Services	3,710	4,056	3,940	4,212	3,600	3,615	3,581	3,535
Housing, water, electricity, gas and other fuels	564,773	574,489	595,425	623,768	650,268	677,521	699,039	727,923
Non-durable goods	168,988	171,728	176,055	186,371	194,248	197,074	200,296	212,184
Services	391,220	398,168	415,341	432,296	450,718	476,559	495,608	511,366
Furnishings, households equipment and routine maintenance of the house	288,697	287,094	292,501	301,948	303,081	312,445	328,434	338,764
Durable goods	74,789	75,138	75,288	76,803	76,537	77,954	80,650	83,373
Semi-durable goods	159,125	157,161	162,366	168,110	166,707	173,023	185,537	191,966
Non-durable goods	32,674	34,010	34,938	36,231	37,988	39,600	41,081	42,188
Services	26,127	24,665	24,085	24,963	25,316	25,550	25,770	26,264
Health	288,922	304,290	313,074	323,326	338,618	349,200	367,556	386,350
Durable goods	7,364	7,388	7,303	7,181	7,307	7,059	7,803	8,472
Non-durable goods	109,950	123,235	131,630	139,315	152,403	160,359	165,006	175,505
Services	172,102	174,507	175,204	178,086	180,698	183,837	196,631	204,595
Transport	796,273	804,490	713,461	735,203	767,245	830,591	879,663	889,851
Durable goods	448,378	435,113	293,512	266,129	270,019	323,503	366,266	368,051
Semi-durable goods	21,595	22,123	21,743	24,237	24,794	25,364	26,057	26,570
Non-durable goods	136,490	141,238	144,033	158,565	170,730	174,487	176,869	179,313
Services	255,316	265,075	269,513	285,944	297,447	311,594	322,977	327,910
Communication	185,408	196,805	217,781	231,361	236,490	250,854	263,006	271,904
Durable goods	10,161	11,340	12,819	12,894	13,031	13,235	13,413	13,753
Services	175,416	185,764	205,344	218,732	223,704	237,773	249,671	258,210
Recreation and culture	341,943	366,552	365,174	372,687	433,406	462,654	484,765	497,510
Durable goods	92,792	93,126	91,806	75,986	74,423	79,783	79,792	85,981
Semi-durable goods	41,239	41,419	41,488	41,584	38,799	40,355	42,012	39,626
Non-durable goods	34,215	38,110	37,294	34,892	35,935	35,607	35,039	35,456
Services	173,176	191,558	192,030	212,974	271,774	293,694	313,136	322,031
Education	85,247	90,151	90,239	94,088	95,519	98,168	103,210	107,268
Services	85,247	90,152	90,239	94,089	95,520	98,169	103,210	107,269
Restaurants and hotels	712,109	794,734	814,304	915,296	964,207	1,066,212	1,111,948	1,196,259
Services	712,109	794,734	814,304	915,295	964,206	1,066,211	1,111,947	1,196,257
Miscellaneous goods and services	513,986	570,631	610,497	669,442	692,665	731,140	772,656	803,553
Durable goods	64,218	72,021	75,125	91,640	93,371	103,459	114,101	118,251
Semi-durable goods	24,931	26,345	36,618	46,271	49,090	50,590	56,636	62,715
Non-durable goods	85,000	90,771	98,401	107,924	110,807	118,792	121,384	130,163
Services	341,206	382,028	402,701	424,784	440,841	458,742	479,476	492,722
Individual consumption expenditure of non-profit institutions serving households (NPISHs)	90,374	95,631	102,512	101,973	103,575	105,410	106,570	109,521
Semi-durable goods	798	957	1,079	1,095	1,076	1,007	962	955
Non-durable goods	17,578	18,210	19,078	19,829	19,852	20,283	20,335	20,542
Services	71,978	76,432	82,286	81,082	82,638	84,093	85,213	87,920
Private final consumption expenditure in the domestic market	5,231,478	5,403,594	5,408,649	5,676,266	5,893,735	6,201,534	6,439,830	6,675,901
Plus : Expenditure of residents abroad	145,124	143,834	160,885	181,198	218,529	240,634	261,522	253,266
Less : Expenditure of non-residents in the country	674,573	813,539	808,294	987,273	1,107,338	1,294,920	1,314,276	1,326,724
Private final consumption expenditure	4,714,916	4,759,900	4,785,280	4,909,901	5,051,349	5,207,330	5,445,590	5,660,992
Durable goods	687,175	688,974	554,835	543,060	548,337	622,381	684,658	700,625
Semi-durable goods	542,950	533,609	543,311	565,958	573,837	589,832	613,702	630,128
Non-durable goods	1,679,269	1,690,013	1,713,980	1,778,176	1,828,280	1,870,783	1,903,113	1,959,832
Services	1,871,934	1,915,014	2,023,460	2,063,082	2,141,261	2,176,395	2,324,565	2,460,057

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)

	2012	2013	2014r	2015r	2016r	2017r	2018r	2019p
Individual consumption expenditure of households	154.5	159.5	159.5	167.5	174.0	183.2	190.3	197.3
Food and non-alcoholic	125.5	124.3	125.4	128.1	130.9	133.9	136.9	140.3
<i>Non-durable goods</i>	125.5	124.3	125.4	128.1	130.9	133.9	136.9	140.3
Alcoholic beverages, tobacco and narcotic	124.7	121.2	118.8	120.6	116.6	115.9	113.7	116.1
<i>Non-durable goods</i>	124.7	121.2	118.8	120.6	116.6	115.9	113.7	116.1
Clothing and footwear	126.4	122.4	119.8	121.3	124.3	127.0	128.5	130.8
<i>Semi-durable goods</i>	125.9	121.7	119.1	120.6	123.7	126.5	128.0	130.4
<i>Services</i>	192.3	210.3	204.3	218.4	186.6	187.4	185.6	183.3
Housing, water, electricity, gas and other fuels	148.6	151.2	156.7	164.1	171.1	178.3	184.0	191.6
<i>Non-durable goods</i>	164.2	166.8	171.0	181.1	188.7	191.5	194.6	206.1
<i>Services</i>	141.2	143.7	149.9	156.0	162.7	172.0	178.9	184.6
Furnishings, households equipment and routine maintenance of the house	185.9	184.9	188.4	194.5	195.2	201.2	211.5	218.2
<i>Durable goods</i>	241.7	242.8	243.3	248.2	247.3	251.9	260.6	269.4
<i>Semi-durable goods</i>	217.0	214.3	221.4	229.3	227.3	236.0	253.0	261.8
<i>Non-durable goods</i>	136.0	141.5	145.4	150.8	158.1	164.8	171.0	175.6
<i>Services</i>	96.9	91.5	89.3	92.6	93.9	94.8	95.6	97.4
Health	183.4	193.1	198.7	205.2	214.9	221.6	233.3	245.2
<i>Durable goods</i>	559.6	561.4	554.9	545.7	555.2	536.4	592.9	643.8
<i>Non-durable goods</i>	192.5	215.8	230.5	244.0	266.9	280.8	289.0	307.3
<i>Services</i>	173.6	176.0	176.7	179.7	182.3	185.5	198.4	206.4
Transport	175.0	176.8	156.8	161.6	168.6	182.5	193.3	195.6
<i>Durable goods</i>	343.0	332.8	224.5	203.6	206.5	247.4	280.2	281.5
<i>Semi-durable goods</i>	141.7	145.1	142.7	159.0	162.7	166.4	171.0	174.3
<i>Non-durable goods</i>	113.2	117.1	119.4	131.5	141.6	144.7	146.6	148.7
<i>Services</i>	135.7	140.9	143.2	151.9	158.1	165.6	171.6	174.2
Communication	204.4	216.9	240.1	255.0	260.7	276.5	289.9	299.7
<i>Durable goods</i>	186.6	208.3	235.5	236.8	239.4	243.1	246.4	252.6
<i>Services</i>	205.7	217.9	240.8	256.5	262.3	278.8	292.8	302.8
Recreation and culture	194.0	208.0	207.2	211.4	245.9	262.5	275.0	282.3
<i>Durable goods</i>	157.7	158.3	156.1	129.2	126.5	135.6	135.6	146.2
<i>Semi-durable goods</i>	233.4	234.4	234.8	235.4	219.6	228.4	237.8	224.3
<i>Non-durable goods</i>	125.4	139.7	136.7	127.9	131.8	130.5	128.5	130.0
<i>Services</i>	236.8	261.9	262.6	291.2	371.6	401.6	428.2	440.3
Education	149.8	158.4	158.6	165.4	167.9	172.5	181.4	188.5
<i>Services</i>	149.8	158.4	158.6	165.4	167.9	172.5	181.4	188.5
Restaurants and hotels	171.8	191.8	196.5	220.9	232.7	257.3	268.3	288.7
<i>Services</i>	171.8	191.8	196.5	220.9	232.7	257.3	268.3	288.7
Miscellaneous goods and services	164.4	182.5	195.2	214.1	221.5	233.8	247.1	257.0
<i>Durable goods</i>	145.9	163.6	170.7	208.2	212.1	235.0	259.2	268.6
<i>Semi-durable goods</i>	396.9	419.5	583.0	736.7	781.6	805.5	901.7	998.5
<i>Non-durable goods</i>	172.4	184.1	199.6	218.9	224.8	241.0	246.2	264.1
<i>Services</i>	160.1	179.3	189.0	199.3	206.9	215.3	225.0	231.2
Individual consumption expenditure of non-profit institutions serving households (NPISHs)	157.7	166.8	178.8	177.9	180.7	183.9	185.9	191.1
<i>Semi-durable goods</i>	351.5	421.6	475.3	482.4	474.0	443.6	423.8	420.7
<i>Non-durable goods</i>	356.3	369.1	386.7	401.9	402.3	411.1	412.1	416.3
<i>Services</i>	137.9	146.5	157.7	155.4	158.3	161.1	163.3	168.5
Private final consumption expenditure in the domestic market	154.6	159.7	159.8	167.7	174.1	183.2	190.3	197.2
Plus : Expenditure of residents abroad	127.5	126.4	141.4	159.2	192.1	211.5	229.8	222.6
Less : Expenditure of non-residents in the country	239.8	289.1	287.3	350.9	393.6	460.2	467.1	471.5
Private final consumption expenditure	146.0	147.4	148.2	152.0	156.4	161.2	168.6	175.3
<i>Durable goods</i>	253.3	254.0	204.5	200.2	202.1	229.4	252.4	258.3
<i>Semi-durable goods</i>	155.8	153.2	155.9	162.4	164.7	169.3	176.1	180.9
<i>Non-durable goods</i>	131.4	132.2	134.1	139.1	143.0	146.4	148.9	153.3
<i>Services</i>	140.0	143.3	151.4	154.3	160.2	162.8	173.9	184.0

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

	2012	2013	2014r	2015r	2016r	2017r	2018r	Percent 2019p
Individual consumption expenditure of households	7.4	3.2	0.0	5.1	3.9	5.3	3.9	3.7
Food and non-alcoholic	0.4	-1.0	0.9	2.2	2.2	2.3	2.2	2.5
Non-durable goods	0.4	-1.0	0.9	2.2	2.2	2.3	2.2	2.5
Alcoholic beverages, tobacco and narcotic	3.0	-2.8	-2.1	1.6	-3.3	-0.6	-1.9	2.1
Non-durable goods	3.0	-2.8	-2.1	1.6	-3.3	-0.6	-1.9	2.1
Clothing and footwear	-0.3	-3.2	-2.1	1.3	2.4	2.2	1.2	1.8
Semi-durable goods	-0.4	-3.3	-2.1	1.2	2.6	2.2	1.2	1.8
Services	8.4	9.3	-2.9	6.9	-14.5	0.4	-0.9	-1.3
Housing, water, electricity, gas and other fuels	8.1	1.7	3.6	4.8	4.2	4.2	3.2	4.1
Non-durable goods	16.1	1.6	2.5	5.9	4.2	1.5	1.6	5.9
Services	4.2	1.8	4.3	4.1	4.3	5.7	4.0	3.2
Furnishings, households equipment and routine maintenance of the house	7.1	-0.6	1.9	3.2	0.4	3.1	5.1	3.1
Durable goods	3.2	0.5	0.2	2.0	-0.3	1.9	3.5	3.4
Semi-durable goods	11.8	-1.2	3.3	3.5	-0.8	3.8	7.2	3.5
Non-durable goods	1.9	4.1	2.7	3.7	4.8	4.2	3.7	2.7
Services	1.5	-5.6	-2.4	3.6	1.4	0.9	0.9	1.9
Health	4.8	5.3	2.9	3.3	4.7	3.1	5.3	5.1
Durable goods	28.3	0.3	-1.2	-1.7	1.8	-3.4	10.5	8.6
Non-durable goods	8.5	12.1	6.8	5.8	9.4	5.2	2.9	6.4
Services	2.0	1.4	0.4	1.6	1.5	1.7	7.0	4.1
Transport	19.7	1.0	-11.3	3.0	4.4	8.3	5.9	1.2
Durable goods	55.8	-3.0	-32.5	-9.3	1.5	19.8	13.2	0.5
Semi-durable goods	6.8	2.4	-1.7	11.5	2.3	2.3	2.7	2.0
Non-durable goods	5.1	3.5	2.0	10.1	7.7	2.2	1.4	1.4
Services	2.2	3.8	1.7	6.1	4.0	4.8	3.7	1.5
Communication	3.9	6.1	10.7	6.2	2.2	6.1	4.8	3.4
Durable goods	11.1	11.6	13.0	0.6	1.1	1.6	1.3	2.5
Services	3.6	5.9	10.5	6.5	2.3	6.3	5.0	3.4
Recreation and culture	13.0	7.2	-0.4	2.1	16.3	6.7	4.8	2.6
Durable goods	14.4	0.4	-1.4	-17.2	-2.1	7.2	0.0	7.8
Semi-durable goods	1.6	0.4	0.2	0.2	-6.7	4.0	4.1	-5.7
Non-durable goods	9.2	11.4	-2.1	-6.4	3.0	-0.9	-1.6	1.2
Services	16.0	10.6	0.2	10.9	27.6	8.1	6.6	2.8
Education	-0.4	5.8	0.1	4.3	1.5	2.8	5.1	3.9
Services	-0.4	5.8	0.1	4.3	1.5	2.8	5.1	3.9
Restaurants and hotels	8.6	11.6	2.5	12.4	5.3	10.6	4.3	7.6
Services	8.6	11.6	2.5	12.4	5.3	10.6	4.3	7.6
Miscellaneous goods and services	10.5	11.0	7.0	9.7	3.5	5.6	5.7	4.0
Durable goods	6.4	12.2	4.3	22.0	1.9	10.8	10.3	3.6
Semi-durable goods	8.0	5.7	39.0	26.4	6.1	3.1	12.0	10.7
Non-durable goods	6.5	6.8	8.4	9.7	2.7	7.2	2.2	7.2
Services	12.7	12.0	5.4	5.5	3.8	4.1	4.5	2.8
Individual consumption expenditure of non-profit institutions serving households (NPISHs)	5.5	5.8	7.2	-0.5	1.6	1.8	1.1	2.8
Semi-durable goods	33.4	20.0	12.7	1.5	-1.7	-6.4	-4.5	-0.7
Non-durable goods	-1.4	3.6	4.8	3.9	0.1	2.2	0.3	1.0
Services	7.0	6.2	7.7	-1.5	1.9	1.8	1.3	3.2
Private final consumption expenditure in the domestic market	7.4	3.3	0.1	4.9	3.8	5.2	3.8	3.7
Plus : Expenditure of residents abroad	15.4	-0.9	11.9	12.6	20.6	10.1	8.7	-3.2
Less : Expenditure of non-residents in the country	9.3	20.6	-0.6	22.1	12.2	16.9	1.5	0.9
Private final consumption expenditure	7.3	1.0	0.5	2.6	2.9	3.1	4.6	4.0
Durable goods	34.0	0.3	-19.5	-2.1	1.0	13.5	10.0	2.3
Semi-durable goods	3.6	-1.7	1.8	4.2	1.4	2.8	4.0	2.7
Non-durable goods	2.8	0.6	1.4	3.7	2.8	2.3	1.7	3.0
Services	6.9	2.3	5.7	2.0	3.8	1.6	6.8	5.8

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

(Millions of Baht)

	2012	2013	2014	2015	2016r	2017r	2018r	2019p
By type of expenditure								
Compensation of employees	1,087,339	1,140,263	1,228,295	1,297,373	1,350,895	1,402,532	1,462,564	1,521,079
Consumption of fixed capital	232,355	245,156	249,347	261,017	273,413	286,657	300,641	310,087
Purchases from enterprises and abroad	532,817	590,214	621,383	680,722	716,827	716,662	794,735	810,567
Less: Purchases by households and enterprises	77,388	100,156	105,072	129,347	140,669	151,516	177,885	185,741
Social transfers in kind - purchased market production	245,671	237,892	244,131	243,277	260,220	270,068	267,424	278,493
General government final consumption expenditure	2,020,794	2,113,369	2,238,084	2,353,042	2,460,686	2,524,403	2,647,479	2,734,485
By classification of the functions of government (COFOG)								
General public services	275,399	303,314	322,281	349,286	359,128	359,444	369,974	386,612
Defence	183,465	194,480	218,360	239,571	259,016	261,422	293,447	298,248
Public order and safety	191,284	192,827	200,720	211,882	221,432	223,976	230,987	241,037
Economic affairs	278,155	295,570	294,757	301,524	300,753	313,662	330,938	340,686
Environmental protection	28,273	28,143	28,925	31,598	34,291	35,203	34,438	34,841
Housing and community amenities	63,622	72,800	67,899	70,063	74,870	78,184	83,514	85,847
Health	328,196	339,741	369,807	383,705	409,936	438,968	465,915	489,322
Recreation, culture and religion	38,685	38,127	37,452	37,673	39,906	41,032	42,912	43,333
Education	602,520	619,739	665,947	695,012	727,979	743,047	762,871	784,430
Social protection	31,195	28,628	31,936	32,728	33,375	29,465	32,483	30,129
General government final consumption expenditure	2,020,794	2,113,369	2,238,084	2,353,042	2,460,686	2,524,403	2,647,479	2,734,485
By type of services								
Collective consumption expenditure	1,037,972	1,100,563	1,141,173	1,204,158	1,249,398	1,269,543	1,354,869	1,387,523
Individual consumption expenditure	982,822	1,012,806	1,096,911	1,148,884	1,211,288	1,254,860	1,292,610	1,346,962
General government final consumption expenditure	2,020,794	2,113,369	2,238,084	2,353,042	2,460,686	2,524,403	2,647,479	2,734,485

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

(Millions of Baht)

	2012	2013	2014	2015	2016r	2017r	2018r	2019p
By type of expenditure								
Compensation of employees	681,549	686,105	708,807	715,799	718,298	721,366	730,679	741,957
Consumption of fixed capital	164,360	169,502	168,101	170,249	172,031	177,500	183,700	186,568
Purchases from enterprises and abroad	438,987	478,588	499,066	556,270	588,705	582,674	637,395	651,118
Less: Purchases by households and enterprises	64,761	82,571	85,908	107,878	118,027	125,813	145,607	152,350
Social transfers in kind - purchased market production	205,124	196,646	198,656	195,931	208,932	215,823	211,942	218,708
General government final consumption expenditure	1,395,850	1,417,379	1,457,177	1,493,837	1,526,168	1,530,150	1,570,597	1,597,102
By classification of the functions of government (COFOG)								
General public services	198,766	212,911	220,622	234,841	235,823	230,097	231,529	238,300
Defence	126,580	129,176	140,887	151,070	159,047	156,081	170,854	170,996
Public order and safety	136,717	133,494	135,064	138,798	140,702	138,144	138,695	142,057
Economic affairs	197,345	203,022	197,605	198,511	192,987	197,067	203,827	206,682
Environmental protection	19,823	19,130	19,209	20,682	21,918	22,018	21,100	21,077
Housing and community amenities	45,494	50,455	45,974	46,553	48,530	49,734	52,162	52,963
Health	244,347	246,432	261,793	266,116	278,809	292,727	304,643	315,185
Recreation, culture and religion	29,850	28,934	27,954	27,996	29,310	29,658	30,503	30,620
Education	375,383	375,331	387,527	389,331	398,935	398,523	400,874	405,374
Social protection	24,014	21,579	23,591	23,971	24,134	20,834	22,478	20,598
General government final consumption expenditure	1,395,850	1,417,379	1,457,177	1,493,837	1,526,168	1,530,150	1,570,597	1,597,102
By type of services								
Collective consumption expenditure	778,452	804,280	817,333	850,271	864,119	861,053	902,518	914,745
Individual consumption expenditure	615,863	613,814	638,952	644,962	662,542	668,478	671,457	685,131
General government final consumption expenditure	1,395,850	1,417,379	1,457,177	1,493,837	1,526,168	1,530,150	1,570,597	1,597,102

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)

	2012	2013	2014	2015	2016r	2017r	2018r	2019p
By type of expenditure								
Compensation of employees	150.7	151.7	156.7	158.2	158.8	159.5	161.5	164.0
Consumption of fixed capital	143.2	147.7	146.5	148.3	149.9	154.7	160.1	162.6
Purchases from enterprises and abroad	241.6	263.4	274.7	306.2	324.0	320.7	350.8	358.4
Less: Purchases by households and enterprises	304.3	388.0	403.6	506.9	554.6	591.1	684.1	715.8
Social transfers in kind - purchased market production	631.5	605.4	611.6	603.2	643.2	664.4	652.5	673.3
General government final consumption expenditure	183.7	186.5	191.7	196.6	200.8	201.3	206.7	210.1
By classification of the functions of government (COFOG)								
General public services	177.0	189.6	196.4	209.1	210.0	204.9	206.1	212.2
Defence	135.3	138.0	150.6	161.4	170.0	166.8	182.6	182.7
Public order and safety	186.8	182.3	184.5	189.6	192.2	188.7	189.5	194.0
Economic affairs	164.6	169.3	164.8	165.6	161.0	164.4	170.0	172.4
Environmental protection	365.3	352.6	354.0	381.2	403.9	405.8	388.9	388.4
Housing and community amenities	225.6	250.2	228.0	230.9	240.7	246.7	258.7	262.7
Health	254.7	256.9	272.9	277.4	290.6	305.1	317.5	328.5
Recreation, culture and religion	182.5	176.9	170.9	171.2	179.2	181.3	186.5	187.2
Education	172.9	172.9	178.5	179.3	183.7	183.6	184.6	186.7
Social protection	400.8	360.2	393.8	400.1	402.8	347.8	375.2	343.8
General government final consumption expenditure	183.7	186.5	191.7	196.6	200.8	201.3	206.7	210.1
By type of services								
Collective consumption expenditure	178.2	184.1	187.1	194.6	197.8	197.1	206.6	209.4
Individual consumption expenditure	190.6	189.9	197.7	199.6	205.0	206.9	207.8	212.0
General government final consumption expenditure	183.7	186.5	191.7	196.6	200.8	201.3	206.7	210.1

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

	2012	2013	2014	2015	2016r	2017r	2018r	2019p
	Percent							
By type of expenditure								
Compensation of employees	4.7	0.7	3.3	1.0	0.3	0.4	1.3	1.5
Consumption of fixed capital	7.4	3.1	-0.8	1.3	1.0	3.2	3.5	1.6
Purchases from enterprises and abroad	8.2	9.0	4.3	11.5	5.8	-1.0	9.4	2.2
Less: Purchases by households and enterprises	-1.8	27.5	4.0	25.6	9.4	6.6	15.7	4.6
Social transfers in kind - purchased market production	12.8	-4.1	1.0	-1.4	6.6	3.3	-1.8	3.2
General government final consumption expenditure	7.2	1.5	2.8	2.5	2.2	0.3	2.6	1.7
By classification of the functions of government (COFOG)								
General public services	12.1	7.1	3.6	6.4	0.4	-2.4	0.6	2.9
Defence	0.3	2.1	9.1	7.2	5.3	-1.9	9.5	0.1
Public order and safety	5.3	-2.4	1.2	2.8	1.4	-1.8	0.4	2.4
Economic affairs	3.1	2.9	-2.7	0.5	-2.8	2.1	3.4	1.4
Environmental protection	7.7	-3.5	0.4	7.7	6.0	0.5	-4.2	-0.1
Housing and community amenities	15.4	10.9	-8.9	1.3	4.2	2.5	4.9	1.5
Health	13.3	0.9	6.2	1.7	4.8	5.0	4.1	3.5
Recreation, culture and religion	10.4	-3.1	-3.4	0.2	4.7	1.2	2.8	0.4
Education	5.7	0.0	3.2	0.5	2.5	-0.1	0.6	1.1
Social protection	5.3	-10.1	9.3	1.6	0.7	-13.7	7.9	-8.4
General government final consumption expenditure	7.2	1.5	2.8	2.5	2.2	0.3	2.6	1.7
By type of services								
Collective consumption expenditure	6.4	3.3	1.6	4.0	1.6	-0.4	4.8	1.4
Individual consumption expenditure	8.0	-0.3	4.1	0.9	2.7	0.9	0.4	2.0
General government final consumption expenditure	7.2	1.5	2.8	2.5	2.2	0.3	2.6	1.7

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

(Millions of Baht)

	2012	2013	2014	2015	2016	2017r	2018r	2019p
Construction	1,036,338	1,052,167	1,038,061	1,159,732	1,223,405	1,212,414	1,268,279	1,297,281
<i>Private</i>	523,806	555,072	543,891	529,357	524,010	526,729	561,595	571,075
<i>Public</i>	512,532	497,095	494,170	630,375	699,395	685,685	706,684	726,206
Equipment	2,299,359	2,226,159	2,224,717	2,211,337	2,236,496	2,366,763	2,456,692	2,508,183
<i>Private</i>	2,083,755	1,986,164	2,028,293	1,976,806	2,005,331	2,126,771	2,205,636	2,271,616
<i>Public</i>	215,604	239,995	196,424	234,531	231,165	239,992	251,056	236,567
Gross fixed capital formation	3,335,697	3,278,326	3,262,778	3,371,069	3,459,901	3,579,177	3,724,971	3,805,464
<i>Private</i>	2,607,561	2,541,236	2,572,184	2,506,163	2,529,341	2,653,500	2,767,231	2,842,691
<i>Public</i>	728,136	737,090	690,594	864,906	930,560	925,677	957,740	962,773
Change in inventories	127,344	267,804	-98,217	-298,624	-380,535	-26,962	395,354	204,820
Gross capital formation	3,463,041	3,546,130	3,164,561	3,072,445	3,079,366	3,552,215	4,120,325	4,010,284

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

(Millions of Baht)

	2012	2013	2014	2015	2016	2017r	2018r	2019p
Construction	691,834	691,867	677,748	784,133	846,807	829,249	855,606	869,905
<i>Private</i>	358,418	372,965	360,653	361,713	365,590	362,390	380,325	383,689
<i>Public</i>	332,440	318,683	316,664	420,053	478,040	463,837	472,271	483,116
Equipment	1,632,021	1,608,039	1,571,194	1,556,729	1,559,793	1,621,990	1,687,908	1,724,509
<i>Private</i>	1,483,403	1,440,338	1,436,150	1,397,005	1,402,885	1,459,315	1,515,996	1,563,112
<i>Public</i>	149,752	168,301	136,581	160,781	158,061	163,885	173,158	162,620
Gross fixed capital formation	2,326,977	2,303,441	2,252,515	2,350,865	2,418,543	2,463,150	2,555,864	2,606,958
<i>Private</i>	1,840,836	1,813,138	1,795,944	1,758,459	1,768,279	1,821,464	1,896,062	1,946,434
<i>Public</i>	484,060	487,714	455,702	585,133	641,321	632,870	650,678	651,323
Change in inventories	92,683	183,078	-63,572	-111,915	-340,739	-68,590	259,187	111,260
Gross capital formation	2,452,199	2,539,573	2,226,085	2,273,757	2,188,290	2,428,351	2,819,973	2,720,703

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)

	2012	2013	2014	2015	2016	2017r	2018r	2019p
Construction	145.9	145.9	142.9	165.3	178.6	174.9	180.4	183.4
<i>Private</i>	180.3	187.6	181.4	182.0	183.9	182.3	191.3	193.0
<i>Public</i>	120.7	115.7	114.9	152.5	173.5	168.4	171.4	175.4
Equipment	206.6	203.6	198.9	197.1	197.5	205.3	213.7	218.3
<i>Private</i>	219.7	213.3	212.7	206.9	207.8	216.1	224.5	231.5
<i>Public</i>	130.5	146.7	119.0	140.1	137.8	142.8	150.9	141.7
Gross fixed capital formation	184.1	182.2	178.2	186.0	191.3	194.8	202.2	206.2
<i>Private</i>	210.6	207.5	205.5	201.2	202.3	208.4	216.9	222.7
<i>Public</i>	124.0	125.0	116.8	149.9	164.3	162.2	166.7	166.9
Change in inventories								
Gross capital formation	186.9	193.5	169.6	173.3	166.8	185.1	214.9	207.3

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

	2012	2013	2014	2015	2016	2017r	2018r	2019p	Percent
Construction	7.6	0.0	-2.0	15.7	8.0	-2.1	3.2	1.7	
<i>Private</i>	7.8	4.1	-3.3	0.3	1.1	-0.9	4.9	0.9	
<i>Public</i>	7.5	-4.1	-0.6	32.6	13.8	-3.0	1.8	2.3	
Equipment	12.1	-1.5	-2.3	-0.9	0.2	4.0	4.1	2.2	
<i>Private</i>	12.8	-2.9	-0.3	-2.7	0.4	4.0	3.9	3.1	
<i>Public</i>	6.0	12.4	-18.8	17.7	-1.7	3.7	5.7	-6.1	
Gross fixed capital formation	10.7	-1.0	-2.2	4.4	2.9	1.8	3.8	2.0	
<i>Private</i>	11.8	-1.5	-0.9	-2.1	0.6	3.0	4.1	2.7	
<i>Public</i>	7.0	0.8	-6.6	28.4	9.6	-1.3	2.8	0.1	
Change in inventories									
Gross capital formation	11.6	3.6	-12.3	2.1	-3.8	11.0	16.1	-3.5	

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

	(Millions of Baht)							
	2012	2013	2014	2015	2016	2017r	2018r	2019p
Construction	1,036,338	1,052,167	1,038,062	1,159,732	1,223,404	1,212,414	1,268,279	1,297,282
Private	523,806	555,072	543,891	529,357	524,010	526,729	561,595	571,075
Dwellings	283,386	306,479	306,604	295,710	293,168	297,375	313,067	309,458
Non-dwelling construction	169,580	173,431	161,304	158,754	147,773	150,369	154,736	165,039
Other construction	56,096	56,850	58,478	57,532	65,225	61,007	74,370	77,657
Costs of ownership transfer	14,744	18,312	17,505	17,361	17,844	17,978	19,422	18,921
Public	512,532	497,095	494,170	630,375	699,394	685,685	706,684	726,207
Dwellings	40,705	22,784	22,108	18,863	16,185	15,368	15,167	17,374
Non-dwelling construction	90,723	104,906	100,818	149,717	128,549	133,582	134,741	139,027
Other construction	381,104	369,405	371,245	461,795	554,660	536,735	556,776	569,806
Machinery and other equipment	2,299,359	2,226,159	2,224,717	2,211,338	2,236,496	2,366,763	2,456,693	2,508,183
Transport equipment	1,045,955	1,037,788	919,411	881,046	837,349	937,170	1,004,502	1,025,800
Road motor equipment	829,384	808,844	771,639	757,286	731,921	799,668	868,633	891,219
Other vehicles	216,571	228,944	147,772	123,760	105,428	137,502	135,869	134,581
Machinery and equipment	1,253,404	1,188,371	1,305,306	1,330,291	1,399,147	1,429,593	1,452,191	1,482,383
Industrial machinery	782,207	719,089	739,746	707,781	757,497	760,681	778,924	792,695
Office equipment	471,197	469,282	565,560	622,510	641,650	668,912	673,267	689,688
Gross fixed capital formation	3,335,697	3,278,326	3,262,779	3,371,070	3,459,900	3,579,177	3,724,972	3,805,465

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

	(Millions of Baht)							
	2012	2013	2014	2015	2016	2017r	2018r	2019p
Construction	691,833	691,866	677,748	784,133	846,806	829,248	855,605	869,904
Private	358,419	372,966	360,655	361,715	365,591	362,391	380,326	383,690
Dwellings	192,740	203,295	200,327	198,656	203,129	203,347	210,723	204,553
Non-dwelling construction	114,905	116,299	106,616	108,128	103,664	104,006	105,438	108,762
Other construction	37,718	38,061	39,022	40,091	43,317	39,830	47,695	52,784
Costs of ownership transfer	11,685	14,201	13,547	13,753	14,497	14,384	15,315	16,356
Public	332,439	318,882	316,663	420,051	478,038	463,835	472,269	483,114
Dwellings	27,189	15,175	14,685	12,456	10,950	10,376	10,082	11,360
Non-dwelling construction	60,617	69,171	65,448	96,234	85,783	88,793	88,715	88,851
Other construction	244,139	233,873	235,920	310,447	381,412	364,606	373,451	382,907
Machinery and other equipment	1,632,023	1,608,042	1,571,197	1,556,732	1,559,796	1,621,993	1,687,911	1,724,511
Transport equipment	789,617	791,503	720,035	718,438	666,776	754,905	810,350	823,174
Road motor equipment	638,125	639,905	594,293	597,226	565,417	630,559	678,374	697,467
Other vehicles	153,821	153,953	129,709	124,576	101,403	126,746	134,299	125,847
Machinery and equipment	857,542	832,717	862,636	850,448	893,733	880,003	896,840	919,921
Industrial machinery	531,056	505,356	498,534	488,658	499,358	479,014	491,829	509,892
Office equipment	325,213	326,296	362,733	360,303	390,521	396,221	400,369	405,582
Gross fixed capital formation	2,326,977	2,303,441	2,252,515	2,350,865	2,418,543	2,463,150	2,555,864	2,606,958

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)

	2012	2013	2014	2015	2016	2017r	2018r	2019p
Construction	145.9	145.9	142.9	165.3	178.6	174.8	180.4	183.4
Private	180.3	187.6	181.4	182.0	183.9	182.3	191.3	193.0
Dwellings	185.2	195.4	192.5	190.9	195.2	195.4	202.5	196.6
Non-dwelling construction	179.0	181.1	166.1	168.4	161.5	162.0	164.2	169.4
Other construction	165.9	167.4	171.7	176.4	190.5	175.2	209.8	232.2
Costs of ownership transfer	150.5	182.9	174.4	177.1	186.7	185.2	197.2	210.6
Public	120.7	115.7	114.9	152.5	173.5	168.4	171.4	175.4
Dwellings	336.5	187.8	181.7	154.2	135.5	128.4	124.8	140.6
Non-dwelling construction	165.0	188.2	178.1	261.9	233.4	241.6	241.4	241.8
Other construction	105.8	101.4	102.3	134.6	165.4	158.1	161.9	166.0
Machinery and other equipment	206.6	203.6	198.9	197.1	197.5	205.3	213.7	218.3
Transport equipment	348.8	349.6	318.0	317.3	294.5	333.4	357.9	363.6
Road motor equipment	359.6	360.6	334.9	336.6	318.7	355.4	382.3	393.1
Other vehicles	314.2	314.4	264.9	254.4	207.1	258.9	274.3	257.0
Machinery and equipment	152.2	147.8	153.1	150.9	158.6	156.2	159.1	163.2
Industrial machinery	163.9	155.9	153.8	150.8	154.1	147.8	151.8	157.3
Office equipment	135.8	136.3	151.5	150.5	163.1	165.4	167.2	169.4
Gross fixed capital formation	184.1	182.2	178.2	186.0	191.3	194.8	202.2	206.2

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

	2012	2013	2014	2015	2016	2017r	2018r	2019p
Percent								
Construction	7.6	0.0	-2.0	15.7	8.0	-2.1	3.2	1.7
Private	7.8	4.1	-3.3	0.3	1.1	-0.9	4.9	0.9
Dwellings	9.4	5.5	-1.5	-0.8	2.3	0.1	3.6	-2.9
Non-dwelling construction	7.4	1.2	-8.3	1.4	-4.1	0.3	1.4	3.2
Other construction	1.5	0.9	2.5	2.7	8.0	-8.0	19.7	10.7
Costs of ownership transfer	6.9	21.5	-4.6	1.5	5.4	-0.8	6.5	6.8
Public	7.5	-4.1	-0.6	32.6	13.8	-3.0	1.8	2.3
Dwellings	-10.6	-44.2	-3.2	-15.2	-12.1	-5.2	-2.8	12.7
Non-dwelling construction	14.5	14.1	-5.4	47.0	-10.9	3.5	-0.1	0.2
Other construction	8.3	-4.2	0.9	31.6	22.9	-4.4	2.4	2.5
Machinery and other equipment	12.1	-1.5	-2.3	-0.9	0.2	4.0	4.1	2.2
Transport equipment	14.8	0.2	-9.0	-0.2	-7.2	13.2	7.3	1.6
Road motor equipment	26.5	0.3	-7.1	0.5	-5.3	11.5	7.6	2.8
Other vehicles	-17.1	0.1	-15.7	-4.0	-18.6	25.0	6.0	-6.3
Machinery and equipment	10.1	-2.9	3.6	-1.4	5.1	-1.5	1.9	2.6
Industrial machinery	16.0	-4.8	-1.3	-2.0	2.2	-4.1	2.7	3.7
Office equipment	1.5	0.3	11.2	-0.7	8.4	1.5	1.0	1.3
Gross fixed capital formation	10.7	-1.0	-2.2	4.4	2.9	1.8	3.8	2.0

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

	(Millions of Baht)							
	2012	2013	2014	2015	2016	2017r	2018r	2019p
Tangible fixed assets	3,252,695	3,182,925	3,162,777	3,270,124	3,335,363	3,442,805	3,580,779	3,671,007
<i>Dwellings</i>	324,091	329,263	328,712	314,573	309,353	312,743	328,234	326,832
<i>Other buildings and structures</i>	663,573	668,291	654,660	800,134	821,420	811,325	843,311	879,286
<i>Machinery and equipment</i>	2,262,102	2,180,542	2,174,941	2,150,867	2,198,316	2,311,151	2,398,923	2,453,253
<i>Cultivated assets</i>	2,929	4,829	4,465	4,550	6,274	7,586	10,311	11,636
Intangible fixed assets	68,258	77,089	82,497	83,585	106,694	118,393	124,770	115,537
<i>Mineral exploration</i>	32,875	35,151	35,985	34,108	63,234	68,805	75,725	70,666
<i>Computer software</i>	35,383	41,938	46,512	49,477	43,460	49,588	49,045	44,871
Costs of ownership transfer	14,744	18,312	17,505	17,361	17,844	17,978	19,422	18,921
Gross fixed capital formation	3,335,697	3,278,326	3,262,779	3,371,069	3,459,901	3,579,176	3,724,971	3,805,465

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

	(Millions of Baht)							
	2012	2013	2014	2015	2016	2017r	2018r	2019p
Tangible fixed assets	2,265,181	2,232,179	2,175,996	2,272,657	2,326,421	2,366,571	2,456,970	2,504,540
<i>Dwellings</i>	219,928	218,253	214,799	210,935	213,871	213,501	220,568	215,701
<i>Other buildings and structures</i>	432,953	463,032	455,846	609,222	631,292	617,836	631,682	648,303
<i>Machinery and equipment</i>	1,602,684	1,532,241	1,485,895	1,434,959	1,463,364	1,512,762	1,579,093	1,614,037
<i>Cultivated assets</i>	4,267	16,513	21,385	24,711	32,424	39,649	48,200	54,258
Intangible fixed assets	50,830	58,632	65,078	66,416	81,313	86,183	87,675	90,357
<i>Mineral exploration</i>	26,044	28,365	28,683	27,669	50,015	50,653	52,354	57,376
<i>Computer software</i>	25,883	31,404	37,455	39,845	32,759	36,967	36,772	34,188
Costs of ownership transfer	11,687	14,203	13,550	13,756	14,500	14,387	15,318	16,359
Gross fixed capital formation	2,326,977	2,303,441	2,252,515	2,350,865	2,418,543	2,463,150	2,555,864	2,606,958

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)**

	2012	2013	2014	2015	2016	2017r	2018r	2019p
Tangible fixed assets	181.5	178.8	174.3	182.1	186.4	189.6	196.9	200.7
<i>Dwellings</i>	196.1	194.6	191.5	188.1	190.7	190.4	196.7	192.3
<i>Other buildings and structures</i>	123.4	132.0	130.0	173.7	180.0	176.1	180.1	184.8
<i>Machinery and equipment</i>	205.8	196.7	190.8	184.2	187.9	194.2	202.7	207.2
<i>Cultivated assets</i>	67.8	262.3	339.7	392.5	515.0	629.7	765.6	861.8
Intangible fixed assets	608.1	701.4	778.5	794.5	972.8	1,031.0	1,048.9	1,081.0
<i>Mineral exploration</i>	3,130.3	3,409.2	3,447.5	3,325.6	6,011.4	6,088.1	6,292.5	6,896.2
<i>Computer software</i>	343.9	417.2	497.6	529.4	435.2	491.1	488.5	454.2
Costs of ownership transfer	150.5	182.9	174.5	177.1	186.7	185.3	197.2	210.6
Gross fixed capital formation	184.1	182.2	178.2	186.0	191.3	194.8	202.2	206.2

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

	Percent							
	2012	2013	2014	2015	2016	2017r	2018r	2019p
Tangible fixed assets	10.6	-1.5	-2.5	4.4	2.4	1.7	3.8	1.9
<i>Dwellings</i>	6.4	-0.8	-1.6	-1.8	1.4	-0.2	3.3	-2.2
<i>Other buildings and structures</i>	7.8	6.9	-1.6	33.6	3.6	-2.1	2.2	2.6
<i>Machinery and equipment</i>	11.9	-4.4	-3.0	-3.4	2.0	3.4	4.4	2.2
<i>Cultivated assets</i>	142.9	286.9	29.5	15.6	31.2	22.3	21.6	12.6
Intangible fixed assets	16.7	15.3	11.0	2.1	22.4	6.0	1.7	3.1
<i>Mineral exploration</i>	16.7	8.9	1.1	-3.5	80.8	1.3	3.4	9.6
<i>Computer software</i>	16.8	21.3	19.3	6.4	-17.8	12.8	-0.5	-7.0
Costs of ownership transfer	6.9	21.5	-4.6	1.5	5.4	-0.8	6.5	6.8
Gross fixed capital formation	10.7	-1.0	-2.2	4.4	2.9	1.8	3.8	2.0

National income

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

(Millions of Baht)

	2012	2013	2014	2015	2016	2017r	2018r	2019p
Compensation of employees	3,812,499	4,041,907	4,323,540	4,554,169	4,711,391	4,855,252	5,044,907	5,165,494
Wages and salaries	3,393,830	3,600,119	3,839,449	4,026,068	4,141,598	4,252,535	4,409,453	4,476,305
Employers' social contributions	418,669	441,788	484,091	528,101	569,793	602,717	635,454	689,189
Employers' actual social contributions	118,036	136,318	158,414	169,913	176,570	182,437	194,909	203,221
Employers' imputed social contributions	300,633	305,470	325,677	358,188	393,223	420,280	440,545	485,968
Households mixed income and operating surplus	2,833,318	2,664,139	2,629,119	2,537,405	2,785,069	3,015,981	3,195,165	3,474,911
Households property income receivable	865,923	986,607	1,021,446	1,078,520	1,047,540	1,035,858	1,097,909	1,141,885
Interest	280,638	305,577	291,902	272,683	252,147	235,634	238,311	253,481
Distributed income of corporations	376,824	456,117	491,414	561,602	539,754	533,305	576,620	595,307
Investment income disbursements	126,718	139,944	155,102	163,185	173,698	184,944	198,072	206,745
Rent	81,743	84,969	83,028	81,050	81,941	81,975	84,906	86,352
General government property income receivable	178,784	194,127	209,437	223,094	221,074	235,433	253,985	256,159
Interest	39,719	43,696	43,113	45,883	44,193	44,185	42,326	44,166
Distributed income of corporations	86,628	104,330	119,288	130,004	121,228	130,150	146,064	153,132
Investment income disbursements	32,132	34,737	37,733	39,967	43,406	45,382	47,538	49,721
Rent	20,305	11,364	9,303	7,240	12,247	15,716	18,057	9,140
Appropriated corporation profit	1,339,443	1,299,454	1,425,258	1,452,344	1,771,393	2,083,544	2,187,946	2,321,029
Savings of corporations	966,241	805,328	930,341	928,064	1,286,907	1,573,381	1,575,635	1,700,494
Corporate current taxes on income	660,416	704,087	662,078	653,868	644,309	649,281	744,212	745,909
Corporate transfer payments	-287,214	-209,961	-167,161	-129,588	-159,823	-139,118	-131,901	-125,374
Received by general government	17,116	14,452	21,332	29,724	4,366	22,475	21,023	19,071
Received by households and NPISHs	21,739	24,197	21,659	24,563	23,322	23,680	25,661	25,669
Received by Row (net)	-326,069	-248,610	-210,152	-183,875	-187,511	-185,273	-178,585	-170,114
Households property income payable	302,508	344,537	351,155	362,014	362,712	374,615	392,646	415,009
Interest	188,633	224,831	230,394	240,997	237,365	247,258	260,202	278,936
Investment income disbursements	32,132	34,737	37,733	39,967	43,406	45,382	47,538	49,721
Rent	81,743	84,969	83,028	81,050	81,941	81,975	84,906	86,352
General government property income payable	179,026	176,429	192,353	197,487	210,711	211,771	222,025	232,285
Interest	146,890	141,688	154,616	157,516	167,300	166,382	174,482	182,558
Investment income disbursements	32,132	34,737	37,733	39,967	43,406	45,382	47,538	49,721
Rent	4	4	4	4	5	7	5	6
Taxes on production and imports less subsidies	1,284,555	1,339,877	1,270,121	1,403,640	1,453,542	1,526,468	1,636,122	1,651,922
Net National Income (NNI)	9,832,988	10,005,145	10,335,413	10,689,671	11,416,586	12,166,150	12,801,363	13,364,106
Plus : Consumption of fixed capital	1,958,158	2,084,525	2,214,196	2,344,834	2,488,386	2,628,663	2,774,244	2,911,468
Gross National Income, (GNI) ^{1/}	11,791,146	12,089,670	12,549,609	13,034,505	13,904,972	14,794,813	15,575,607	16,275,574
Less : Primary income from the rest of the world, net	-566,198	-825,489	-680,697	-708,973	-685,365	-693,851	-793,104	-622,512
Gross Domestic Product (GDP)	12,357,344	12,915,159	13,230,306	13,743,478	14,590,337	15,488,664	16,368,711	16,898,086

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

Table 51 Savings and gross capital formation

(Millions of Baht)

	2012	2013	2014	2015	2016	2017r	2018r	2019p
Private sector	2,607,561	2,541,236	2,572,184	2,506,163	2,529,341	2,653,500	2,767,231	2,842,691
Public sector	728,136	737,090	690,594	864,906	930,560	925,677	957,740	962,773
Change in inventories	127,344	267,804	-98,217	-298,624	-380,535	-26,962	395,354	204,820
Gross domestic capital formation	3,463,041	3,546,130	3,164,561	3,072,445	3,079,366	3,552,215	4,120,325	4,010,284
Net savings	1,616,685	1,430,579	1,422,244	1,509,172	1,899,924	2,318,467	2,407,892	2,447,048
Private sector	1,398,953	1,250,470	1,490,935	1,440,213	1,837,752	2,234,485	2,288,509	2,267,951
Households	583,165	560,543	649,805	637,481	760,267	898,032	916,817	920,495
Corporations and cooperatives	815,788	689,927	841,130	802,732	1,077,485	1,336,453	1,371,692	1,347,456
Public sector	217,732	180,109	-68,691	68,959	62,172	83,982	119,383	179,097
General government	67,279	64,708	-157,902	-56,373	-147,250	-152,946	-84,560	-173,941
Public corporations and government enterprises	150,453	115,401	89,211	125,332	209,422	236,928	203,943	353,038
Provision for consumption of fixed capital	1,958,158	2,084,525	2,214,196	2,344,834	2,488,386	2,628,663	2,774,244	2,911,468
Less : Statistical discrepancy	262,831	225,649	90,711	-172,511	-225,672	-95,683	149,681	168,500
Gross savings	3,312,012	3,289,455	3,545,729	4,026,517	4,613,982	5,042,813	5,032,455	5,190,016
Less : Surplus of the nation on current account	-151,029	-256,675	381,168	954,072	1,534,616	1,490,598	912,130	1,179,732
Finance of gross domestic capital formation	3,463,041	3,546,130	3,164,561	3,072,445	3,079,366	3,552,215	4,120,325	4,010,284

Table 52 General government income account

(Millions of Baht)

	2012	2013	2014	2015	2016	2017r	2018r	2019p
Income								
Primary income receivable	1,795,800	1,882,825	1,850,760	1,957,690	2,016,359	2,110,215	2,267,565	2,280,050
Gross operation surplus	232,355	245,156	249,348	261,017	273,413	286,657	300,641	310,087
Taxes on production and imports	1,384,661	1,443,542	1,391,975	1,473,579	1,521,872	1,588,125	1,712,939	1,713,804
Property income	178,784	194,127	209,437	223,094	221,074	235,433	253,985	256,159
Interest	39,719	43,696	43,113	45,883	44,193	44,185	42,326	44,166
Dividends	86,628	104,330	119,288	130,004	121,228	130,150	146,064	153,132
Investment income payable on pension entitlements ^{1/}	32,132	34,737	37,733	39,967	43,406	45,382	47,538	49,721
Rent	20,305	11,364	9,303	7,240	12,247	15,716	18,057	9,140
Secondary income receivable	2,133,294	2,115,686	2,042,535	2,201,660	2,206,884	2,296,417	2,388,887	2,472,536
Current taxes on income, wealth, etc.	925,098	988,890	915,579	944,041	945,045	940,953	1,048,574	1,078,039
Taxes on income	892,434	959,843	881,447	906,322	908,726	897,742	1,004,085	1,032,797
Other current taxes	32,664	29,047	34,132	37,719	36,319	43,211	44,489	45,242
Social contributions	356,245	378,522	427,890	460,843	510,514	542,202	571,255	616,210
Other current transfers	851,951	748,274	699,066	796,776	751,325	813,262	769,058	778,287
Non-life insurance claims	21	1	2	1	1	1	1	1
Current transfers within general government	814,877	712,042	656,299	734,081	701,203	762,526	710,498	724,119
Current international cooperation	5,214	3,120	3,497	2,190	3,009	2,572	3,180	2,571
Miscellaneous current transfers	31,839	33,111	39,268	60,504	47,112	48,163	55,379	51,596
Total income receivable	3,929,094	3,998,511	3,893,295	4,159,350	4,223,243	4,406,632	4,656,452	4,752,586
Use of income								
Primary income uses	279,132	280,094	314,207	267,426	279,041	273,428	298,842	294,167
Property income	179,026	176,429	192,353	197,487	210,711	211,771	222,025	232,285
Interest	146,890	141,688	154,616	157,516	167,300	166,382	174,482	182,558
Investment income payable on pension entitlements ^{1/}	32,132	34,737	37,733	39,967	43,406	45,382	47,538	49,721
Rent	4	4	4	4	5	7	5	6
Subsidies	100,106	103,665	121,854	69,939	68,330	61,657	76,817	61,882
Secondary income uses	1,222,164	1,166,124	1,118,434	1,199,395	1,222,223	1,330,631	1,345,857	1,433,170
Social benefits other than social transfers in kind	326,151	330,096	346,702	377,027	421,938	459,179	525,460	574,978
Social security benefits in cash	26,986	29,400	30,159	31,332	36,394	38,769	44,247	49,768
Other social insurance benefits	215,128	207,476	227,205	252,867	294,198	316,394	335,134	366,468
Social assistance benefits in cash	84,037	93,220	89,338	92,828	91,346	104,016	146,079	158,742
Other current transfers	896,013	836,028	771,732	822,368	800,285	871,452	820,397	858,192
Net non-life insurance premiums	480	380	444	200	184	251	266	207
Current transfers within general government	814,877	712,042	656,299	734,081	701,203	762,526	710,498	724,119
Current international cooperation	1,334	1,375	1,819	1,602	2,548	1,985	1,753	1,464
Miscellaneous current transfers	79,322	122,231	113,170	86,485	96,350	106,690	107,880	132,402
Total income payable	1,501,296	1,446,218	1,432,641	1,466,821	1,501,264	1,604,059	1,644,699	1,727,337
Gross disposable income	2,427,798	2,552,293	2,460,654	2,692,529	2,721,979	2,802,573	3,011,753	3,025,249
Final consumption expenditure	2,020,794	2,113,369	2,238,084	2,353,042	2,460,686	2,524,403	2,647,479	2,734,485
Adjustment for the change in pension entitlement	107,370	129,060	131,124	134,843	135,130	144,459	148,193	154,618
Net saving	67,279	64,708	-157,902	-56,373	-147,250	-152,946	-84,560	-173,941
Consumption of fixed capital	232,355	245,156	249,348	261,017	273,413	286,657	300,641	310,087
Total use of gross income	3,929,094	3,998,511	3,893,295	4,159,350	4,223,243	4,406,632	4,656,452	4,752,586

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 Households and NPISHs income account

(Millions of Baht)

	2012	2013	2014	2015	2016	2017r	2018r	2019p
Income								
Primary income receivable	7,511,740	7,692,653	7,974,105	8,170,094	8,544,000	8,907,091	9,337,981	9,782,290
<i>Compensation of employees</i>	3,812,499	4,041,907	4,323,540	4,554,169	4,711,391	4,855,252	5,044,907	5,165,494
<i>Mixed income</i>	2,833,318	2,664,139	2,629,119	2,537,405	2,785,069	3,015,981	3,195,165	3,474,911
<i>Property income receivable</i>	865,923	986,607	1,021,446	1,078,520	1,047,540	1,035,858	1,097,909	1,141,885
Secondary income receivable	539,510	612,239	623,930	609,837	656,654	736,624	816,977	934,849
Social benefits other than social transfers in kind	326,151	330,096	346,702	377,027	421,938	459,179	525,460	574,978
Other current transfers	213,359	282,143	277,228	232,810	234,716	277,445	291,517	359,871
<i>from corporate</i>	21,739	24,197	21,659	24,563	23,322	23,680	25,661	25,669
<i>from general government</i>	74,899	112,035	105,648	76,012	68,835	95,688	93,017	117,203
<i>from the rest of the world</i>	116,721	145,911	149,921	132,235	142,559	158,077	172,839	216,999
Total income receivable	8,051,250	8,304,892	8,598,035	8,779,931	9,200,654	9,643,715	10,154,958	10,717,139
Use of income								
Primary income payable	302,508	344,537	351,155	362,014	362,712	374,615	392,646	415,009
Property income payable	302,508	344,537	351,155	362,014	362,712	374,615	392,646	415,009
Secondary income payable	690,387	741,668	769,560	858,733	916,253	936,792	988,935	1,130,282
Current taxes on income, wealth, etc.	264,682	284,803	253,501	290,173	300,736	291,672	304,362	332,130
Net social security contribution	356,245	378,522	427,890	460,843	510,514	542,202	571,255	616,210
Other current transfers	69,460	78,343	88,169	107,717	105,003	102,918	113,318	181,942
<i>to general government</i>	9,841	8,084	9,972	20,108	15,048	14,436	19,228	17,120
<i>to the rest of the world</i>	59,619	70,259	78,197	87,609	89,955	88,482	94,090	164,822
Total income payable	992,895	1,086,205	1,120,715	1,220,747	1,278,965	1,311,407	1,381,581	1,545,291
Net Disposable income	7,058,355	7,218,687	7,477,320	7,559,184	7,921,689	8,332,308	8,773,377	9,171,848
Final consumption expenditure	6,582,560	6,787,204	6,958,639	7,056,546	7,296,552	7,578,735	8,004,753	8,405,971
Less : Adjustment for the change in pension entitlement ^{1/}	107,370	129,060	131,124	134,843	135,130	144,459	148,193	154,618
Net Saving	583,165	560,543	649,805	637,481	760,267	898,032	916,817	920,495
Total use of disposable income	7,058,355	7,218,687	7,477,320	7,559,184	7,921,689	8,332,308	8,773,377	9,171,848
Per capita disposable income (Baht)	105,761	107,498	110,664	111,187	115,946	121,109	126,954	132,321
Per capita final consumption expenditure (Baht)	98,631	101,072	102,987	103,794	106,797	110,156	115,831	121,272
Per capita saving (Baht)	8,738	8,347	9,617	9,377	11,128	13,053	13,267	13,280
Population (1,000 Heads)	66,739	67,152	67,568	67,986	68,322	68,800	69,107	69,315

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)

	2012	2013	2014	2015	2016	2017r	2018r	2019p
Domestic	3,783,696	4,016,251	4,300,943	4,533,734	4,689,364	4,845,989	5,041,483	5,240,816
Agriculture	212,101	214,783	203,083	187,482	189,600	196,631	202,643	208,587
Agriculture, forestry and fishing	212,101	214,783	203,083	187,482	189,600	196,631	202,643	208,587
Non-Agriculture	3,571,595	3,801,468	4,097,860	4,346,252	4,499,764	4,649,358	4,838,840	5,032,229
Industrial	1,100,513	1,162,734	1,273,831	1,358,017	1,387,537	1,413,015	1,468,429	1,498,025
Mining and quarrying	25,513	30,216	31,201	29,613	28,541	29,309	31,086	31,041
Manufacturing	985,451	1,039,349	1,148,327	1,221,541	1,250,049	1,267,083	1,312,849	1,332,131
Electricity, gas, steam and air conditioning supply	81,010	83,838	84,461	96,199	98,177	104,875	112,452	121,012
Water supply; sewerage, waste management and remediation activities	8,539	9,331	9,842	10,664	10,770	11,748	12,042	13,841
Services	2,471,082	2,638,734	2,824,029	2,988,235	3,112,227	3,236,343	3,370,411	3,534,204
Construction	185,182	195,416	192,060	197,968	204,327	200,897	202,237	205,879
Wholesale and retail trade; repair of motor vehicles and motorcycles	335,914	367,277	407,810	426,209	449,858	474,971	489,844	520,963
Transportation and storage	137,314	145,957	151,707	164,155	171,335	182,890	191,915	206,771
Accommodation and food service activities	90,105	103,605	117,385	133,351	146,888	166,060	182,971	200,294
Information and communication	64,430	69,178	67,332	72,531	73,325	74,004	75,490	82,958
Financial and insurance activities	249,767	270,241	290,552	308,564	319,428	326,894	341,708	359,312
Real estate activities	43,785	46,365	47,849	50,086	50,840	53,029	54,711	57,582
Professional, scientific and technical activities	67,219	69,195	71,510	74,324	74,718	76,717	79,712	79,948
Administrative and support service activities	56,409	54,548	56,288	58,244	59,561	61,426	64,012	66,865
Public administration and defence; compulsory social security	534,908	557,649	596,040	626,484	653,625	678,517	705,505	732,921
Education	470,517	496,414	533,896	561,078	572,680	586,792	614,747	637,373
Human health and social work activities	175,645	198,722	223,961	242,562	259,597	275,474	286,450	299,415
Arts, entertainment and recreation	8,511	9,832	10,290	11,224	11,764	12,494	13,154	13,317
Other service activities	28,753	31,038	32,575	33,646	36,178	38,755	40,585	42,542
Activities of households as employers	22,623	23,297	24,774	27,809	28,103	27,423	27,370	28,064
The rest of the world	28,803	25,656	22,597	20,435	22,027	9,263	3,424	-75,322
Total	3,812,499	4,041,907	4,323,540	4,554,169	4,711,391	4,855,252	5,044,907	5,165,494

Table 55 Households and NPISHs mixed income receivable

(Millions of Baht)

	2012	2013	2014	2015	2016	2017r	2018r	2019p
Farm income	871,557	893,192	817,123	738,530	751,775	782,799	807,529	825,843
Other	1,961,761	1,770,947	1,811,996	1,798,875	2,033,294	2,233,182	2,387,636	2,649,068
Total	2,833,318	2,664,139	2,629,119	2,537,405	2,785,069	3,015,981	3,195,165	3,474,911

Table 56 Households and NPISHs property income receivable

(Millions of Baht)

	2012	2013	2014	2015	2016	2017r	2018r	2019p
Rent	81,743	84,969	83,028	81,050	81,941	81,975	84,906	86,352
Actual rent	16,312	16,808	16,271	15,880	16,051	16,053	16,626	16,910
Imputed rent	65,431	68,161	66,757	65,170	65,890	65,922	68,280	69,442
Interest	280,638	305,577	291,902	272,683	252,147	235,634	238,311	253,481
Interest paid by banks to households and NPISHs	240,052	273,910	262,295	249,610	224,126	212,433	212,718	226,802
Government bond interest	27,848	19,023	18,547	12,592	13,095	7,456	9,120	8,149
Others	17,156	17,769	16,175	15,325	18,971	19,573	20,399	23,095
Net interest received from ROW	-4,418	-5,125	-5,115	-4,844	-4,045	-3,828	-3,926	-4,565
Distributed income of corporations	376,824	456,117	491,414	561,602	539,754	533,305	576,620	595,307
Dividends from private corporations	319,129	393,693	425,617	491,033	460,236	445,691	486,523	498,922
Dividends from cooperatives	47,863	52,938	58,197	62,725	69,151	74,817	76,860	83,046
Dividends from public corporations	9,832	9,486	7,600	7,844	10,367	12,797	13,237	13,339
Investment income disbursements	126,718	139,944	155,102	163,185	173,698	184,944	198,072	206,745
Beneficiaries from provident fund	19,906	21,442	21,884	21,344	19,189	18,537	19,105	20,487
Beneficiaries from government pension fund	18,570	19,284	21,145	22,220	21,851	21,793	23,068	23,780
Investment income payable on pension entitlement ^{1/}	32,132	34,737	37,733	39,967	43,406	45,382	47,538	49,721
Investment income attributable to insurances policy holder	56,110	64,481	74,340	79,654	89,252	99,232	108,361	112,757
Total	865,923	986,607	1,021,446	1,078,520	1,047,540	1,035,858	1,097,909	1,141,885

Note: 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 57 Household and NPISHs property income payable

(Millions of Baht)

	2012	2013	2014	2015	2016	2017r	2018r	2019p
Interest	188,633	224,831	230,394	240,997	237,365	247,258	260,202	278,936
Interest paid to banks	115,997	139,039	137,291	135,542	128,885	131,835	139,552	154,636
Pawnshop interest	7,007	6,815	6,441	6,298	6,515	6,841	6,698	6,457
Interest on loan from life insurance policy	847	945	1,043	1,137	1,201	1,344	1,521	1,736
Interest paid to cooperatives	62,084	74,747	81,834	93,061	94,874	99,749	105,234	108,944
Others	2,698	3,285	3,785	4,959	5,890	7,489	7,197	7,163
Investment income disbursements	32,132	34,737	37,733	39,967	43,406	45,382	47,538	49,721
Investment income payable on pension entitlement ^{1/}	32,132	34,737	37,733	39,967	43,406	45,382	47,538	49,721
Rent	81,743	84,969	83,028	81,050	81,941	81,975	84,906	86,352
Total	302,508	344,537	351,155	362,014	362,712	374,615	392,646	415,009

Note: 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 58 Saving of corporations

(Millions of Baht)

	2012	2013	2014	2015	2016	2017r	2018r	2019p
Saving of private corporation	808,415	681,323	834,008	792,651	1,066,605	1,325,151	1,360,603	1,336,163
Saving of public corporation and government enterprises	150,453	115,401	89,211	125,332	209,422	236,928	203,943	353,038
Saving of cooperatives	7,373	8,604	7,122	10,081	10,880	11,302	11,089	11,293
Total	966,241	805,328	930,341	928,064	1,286,907	1,573,381	1,575,635	1,700,494

Table 59 Corporate transfer payments received by household and NPISHs

(Millions of Baht)

	2012	2013	2014	2015	2016	2017r	2018r	2019p
Transfer from private corporation	17,987	20,382	18,913	20,152	20,835	20,682	22,205	21,341
Transfer from public corporation and government enterprises	3,194	2,668	2,312	3,241	1,982	2,451	2,583	2,903
Transfer from cooperatives	558	1,147	434	1,170	505	547	873	1,425
Total	21,739	24,197	21,659	24,563	23,322	23,680	25,661	25,669

Table 60 Taxes

(Millions of Baht)

	2012	2013	2014	2015	2016	2017r	2018r	2019p
Taxes								
Current taxes on income, wealth, etc.	925,098	988,890	915,579	944,041	945,045	940,953	1,048,574	1,078,039
Taxes on income	892,434	959,843	881,447	906,322	908,726	897,742	1,004,085	1,032,797
From corporation	641,226	687,298	642,468	632,293	623,236	622,758	717,834	717,516
From households	251,208	272,545	238,979	274,029	285,490	274,984	286,251	315,281
Other current taxes	32,664	29,047	34,132	37,719	36,319	43,211	44,489	45,242
From corporation	19,190	16,789	19,610	21,575	21,073	26,523	26,378	28,393
From households	13,474	12,258	14,522	16,144	15,246	16,688	18,111	16,849
Taxes on production and imports	1,384,661	1,443,542	1,391,975	1,473,579	1,521,872	1,588,125	1,712,939	1,713,804
Taxes on products	1,303,706	1,351,505	1,303,157	1,388,433	1,422,778	1,489,791	1,607,673	1,609,210
Value added type taxes (VAT) ^{1/}	507,039	522,724	531,117	556,442	557,872	594,433	637,347	614,220
Taxes and duties on imports excluding VAT	211,522	183,960	179,553	185,550	194,093	206,278	212,773	217,757
Import duties	120,050	106,972	108,770	112,322	103,471	103,506	107,067	104,008
Taxes on imports excluding VAT and duties	91,472	76,988	70,783	73,228	90,622	102,772	105,706	113,749
Export taxes	270	220	305	189	83	103	170	202
Taxes on products except VAT, import and export taxes	584,875	644,601	592,182	646,252	670,730	688,977	757,383	777,031
Other taxes on production	80,955	92,037	88,818	85,146	99,094	98,334	105,266	104,594
Total taxes	2,309,759	2,432,432	2,307,554	2,417,620	2,466,917	2,529,078	2,761,513	2,791,843
Subsidies								
Subsidies on products	78,879	79,001	94,370	43,304	44,183	37,497	52,065	37,231
Import subsidies	3,106	3,041	3,674	816	962	1,272	1,742	687
Export subsidies	7,235	10,634	9,005	9,364	8,987	7,912	12,837	13,120
Other subsidies on products	68,538	65,326	81,691	33,124	34,234	28,313	37,486	23,424
Other subsidies on production	21,227	24,664	27,484	26,635	24,147	24,160	24,752	24,651
Total subsidies	100,106	103,665	121,854	69,939	68,330	61,657	76,817	61,882
Total taxes on production and imports less subsidies	1,284,555	1,339,877	1,270,121	1,403,640	1,453,542	1,526,468	1,636,122	1,651,922

Note : ^{1/} VAT originated from 1992

Table 61 Social contributions and social transfers

(Millions of Baht)

	2012	2013	2014	2015	2016	2017r	2018r	2019p
Social contributions	356,245	378,522	427,890	460,843	510,514	542,202	571,255	616,210
Employers' actual social contributions ^{1/}	45,457	57,305	74,522	77,823	80,297	84,466	85,862	91,968
Employers' imputed social contributions	215,128	207,476	227,205	252,867	294,198	316,394	335,134	366,468
Households' actual social contributions ^{1/}	63,528	79,004	88,430	90,186	92,613	95,960	102,721	108,326
Households' social contributions supplements ^{1/}	32,132	34,737	37,733	39,967	43,406	45,382	47,538	49,448
Social benefits other than social transfers in kind	326,151	330,096	346,702	377,027	421,938	459,179	525,460	574,978
Social security benefits in cash ^{1/}	26,986	29,400	30,159	31,332	36,394	38,769	44,247	49,768
Other social insurance benefits	215,128	207,476	227,205	252,867	294,198	316,394	335,134	366,468
Social assistance benefits in cash	84,037	93,220	89,338	92,828	91,346	104,016	146,079	158,742
Social transfers in kind	982,822	1,012,806	1,096,910	1,148,884	1,211,288	1,254,859	1,292,609	1,346,962
Social transfers in kind - non-market production	737,151	774,914	852,780	905,607	951,068	984,792	1,025,186	1,068,469
Social transfers in kind - purchased market production	245,671	237,892	244,130	243,277	260,220	270,067	267,423	278,493
Social security benefits, reimbursements ^{1/}	3,114	3,106	3,739	5,052	5,847	6,329	5,567	7,192
Other social security benefits in kind ^{1/}	31,446	31,973	31,625	37,253	40,888	43,075	44,995	49,443
Social assistance benefits in kind	211,111	202,813	208,766	200,972	213,485	220,663	216,861	221,858

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

ผู้ประสานงาน

Contact Persons

สำหรับรายละเอียดเพิ่มเติม กรุณาสอบถามได้ที่ e-mails ด้านล่าง หรือ โทร. 0-2280-4085

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ตาราง / Tables	ผู้ประสานงาน / Coordinators	e-mail address	ต่อ / Ext. No.
Main Accounts			
Account 1. Production account	Natsuda Phetchnoon	natsuda@nesdc.go.th	6512
	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	Natsuda Phetchnoon	natsuda@nesdc.go.th	6512
	Santi Srisomboon	santi@nesdc.go.th	6526
Account 4. Secondary distribution of income account	Natsuda Phetchnoon	natsuda@nesdc.go.th	6512
	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	Natsuda Phetchnoon	natsuda@nesdc.go.th	6512
	Jaruwan Poolsuk	jaruwan@nesdc.go.th	6514
Account 7. Use of adjusted disposable income account	Natsuda Phetchnoon	natsuda@nesdc.go.th	6512
	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
Gross Domestic Product (Production)			
Table 3 - 5.3, 28-29.2	Peeranat Dangskul	peeranat@nesdc.go.th	6521
Table 6 - 7.2, 14-15.2, 34-35.2	Nuttakorn Ajchariyasakunchai	nuttakorn@nesdc.go.th	6535
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	Natsuda Phetchnoon	natsuda@nesdc.go.th	6512
	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	Natsuda Phetchnoon	natsuda@nesdc.go.th	6512
	Jaruwan Poolsuk	jaruwan@nesdc.go.th	6514



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