



รายได้ประชาชาติของประเทศไทย พ.ศ. ๒๕๖๔ แบบปริมาณลูกโซ่

National Income of Thailand 2021 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 2021 edition, following the International System of National Accounts (SNA), is compiled using the chained volume measures (CVMs) in measuring the real terms. In this 2021 edition, data are revised back to 2018 in accordance with the latest available primary data. This is to ensure the accuracy and consistency of the entire system of national accounts. Details of revisions are indicated in the revision note on the following pages.

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



(Danucha Pichayanan)
Secretary-General
National Economic and Social Development Council
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Revisions to the National Income of Thailand 2021 Edition

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

1. Revised data

- Agricultural, forestry, and fishing: revised agricultural figures back to 2019 according to the Agricultural Statistics of Thailand 2019 and 2020 from the Office of Agricultural Economics, and amended fishery figures back to 2019 according to the Fisheries Statistics of Thailand 2020 and estimated data of 2021 from the Department of Fisheries.
- Mining and quarrying: revised mineral production figures back to 2020 according to mineral production of Thailand from the Department of Primary Industries and Mines, and the Department of Mineral Fuels.
- Manufacturing sector: revised industrial production figures back to 2019 according to the Manufacturing Product Index (MPI) from the Office of Industrial Economics, Ministry of Industry; revised imports and exports of merchandise data from the Custom Department.
- Construction sector: revised the construction data of public and private sectors back to 2019.
- Wholesale and retail; trade and repair of motor vehicles and motorcycle: revised data back to 2019 due to updated production data of manufacturing and agriculture sectors.
- Transportation and storage: revised data back to 2019 due to updated statistical data of land, water, and air transport by the main source.
- Accommodation and catering services: revised income for the Value Added Taxes assessment back to 2019.
- Financial and insurance activities: revised data back to 2019 according to the updated annual reports of specialized financial institutions and other financial institutions; revised life and non-life insurances from the Office of Insurance Commission (OIC).
- Private final consumption expenditure and General government consumption expenditure: revised data back to 2019 according to relevant data sources.
- Gross fixed capital formation expenditure: revised the machinery and equipment data back to 2019 according to the latest report; and the public construction data back to 2019.
- Change in inventories: revised data back to 2019 according to relevant data sources.
- Exports and Imports merchandise and services: revised the data back to 2020 and the primary income data from the rest of the world back to 2018 according to the updated balance of payments of the bank of Thailand.
- Primary income of households and NPISHs: revised the income from households and non-profit institutions serving households back to 1999; revised the compensation of employees back to 2019; and revised property income back to 2018.
- Primary Income payments of households and NPISHs: revised the data and accounting record of investment income payable on pension entitlement back to 1999.
- Secondary income and payments of households and NPISHs revised back to 2019.
- The allocation for profits of corporations revised back to 2018 conforming to relevant data sources.
- Updated other basic data according to the latest data available from original data sources.

2. Abbreviation

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

Executive Summary

The Thai economy in 2021, measured by the Gross Domestic Product (GDP), increased by 1.5%, in contrast to a contraction of 6.1% in 2020. The expansion was from both agricultural and non-agricultural productions. Hence, the agricultural production improved moderately as a result of a growth in main crop production. The non-agricultural production was uplifted by the declined COVID-19 spread nationwide and worldwide, in addition to the announcement by the Royal Thai Government to lift the nationwide COVID-19 restrictions in line with the country's plan to downgrade the measures, which encouraged people to fully get vaccination. Moreover, the Thai government assured that the economic stimulus will be taken continually, in consistence with the entry policies started with entry screening of international arrivals in order to travel domestically. Furthermore, the international trade recovery was one of the important circumstances, which positively reflected to the domestic production.

Total production increased by 1.5% as a consequence to a 2.3% rise in agricultural production, specifically in main crop production and a 1.4% increase in non-agricultural production. The improvement of the non-agricultural production was mainly from the significant expansion in industrial sector compared to the previous year, according to higher domestic and external product requirements in line with the less amount of production in 2020. Furthermore, the service sector greatly accelerated in conformance to the Royal Thai Government announcement that to relax the COVID-19 restrictions. This reassured that people could participate more normal activities by providing vaccines and encouraging people's incentive of vaccination in order to prevent the disease. The reassurance reflected to people's living confidence. Moreover, the economic stimulus and people's expenditures greatly contributed to expansions in service productions, for example, wholesale and retail trade, accommodation and food services, transportation and storage, etc.

Domestic demand increased by the increases of private final consumption expenditure, general government final consumption, investment, and the import and export of goods and services. The private final consumption expenditure rose by 0.6%, compared to a contraction of 0.8% in 2020 conforming to the reduction of COVID-19 widespread, which was strictly controlled by the government measures in the past year. Moreover, the government has provided vaccines and allocated the vaccination throughout the nation, along with the relaxation measures against the spread. Therefore, the economic activities turned into normal, as a consequence of higher employments and household's incomes. Furthermore, the expenditure stimulus measures and cost of living allowance attributed to a higher household's purchasing power. General government final consumption expenditure increased by 3.7%, compared to 1.4% in 2020. Gross fixed capital formation rose by 3.1%, in contrast to a fall of 4.8% in 2020. In particular, private investment accelerated from a reduction last year, while public investment decelerated. For the external sector, exports and imports of goods and services grew by 11.1% and 17.8%, orderly.

National income in 2021 registered a value of 15,590,257 million baht, which increased by 1.8%. Sources of income were from a return to labor with a value of 5,059,533 million baht which expanded by 1.1%. Moreover, a return to capital, land, and operation valued at 6,053,155 million baht, expanded by 2.7%. On the contrary, Taxes on production and import less subsidies valued at 1,437,424 million baht, decreased by 0.4%. Consumption of fixed capital valued at 3,040,145 million baht, grew by 2.2% in this year. In per capita terms, national income per capita in 2021 was 223,715 baht, rising from 220,368 baht in 2020. Disposable income per capita was 133,962 baht and consumption expenditure per capita was 121,329 baht. Consequently, per capita personal savings valued at 14,121 baht in 2021.

For overall economic stability, gross saving decreased by 1.9%, compared to a fall of 15.9% in 2020, in contrast to a 24.5% increase in gross investment. Consequently, the saving-investment gap (equivalent to current account) postulated a deficit with the value of 333,003 million baht, accounting for 2.1% of GDP. However, it was lower than a surplus of 658,576 million baht in 2020.

GDP implicit price deflator increased by 1.7%, compared to a contraction of 1.3% in 2020. The expansion contributed from the non-agricultural price index with a rise of 1.8%, higher than a fall of 1.6% in 2020. In addition, the agricultural price index increased by 1.0%, compared to a 2.7% rise in 2020. Meanwhile, the consumer price index (CPI) and the producer price index (PPI) expanded by 1.2% and 4.7%, consecutively.

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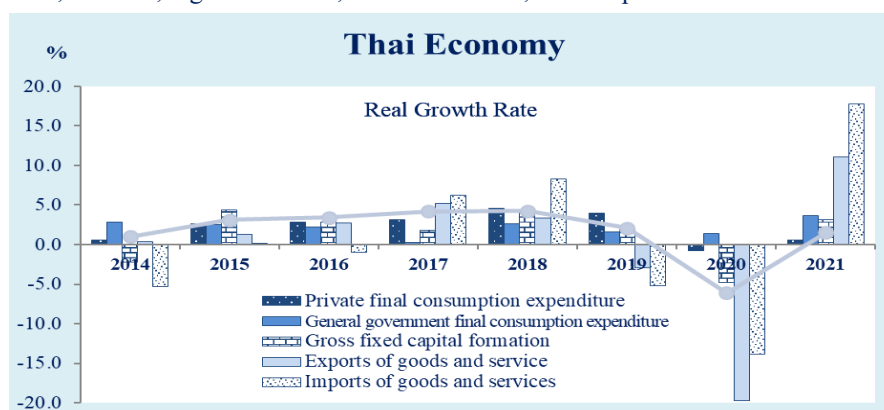
Thai Economy in 2021 National Accounts Perspectives

Overview

GDP in 2021 increased by 1.5%, accelerating from a fall of 6.1% in 2020.

Gross Domestic Product of 2021 increased by 1.5%, in contrast to a fall of 6.1% in 2020. The acceleration resulted from increases in both non-agricultural and agricultural productions. The agricultural production rose by 2.3%, accordingly to the higher amount in main crop yields. Similarly, the non-agricultural production expanded by 1.4%, accelerating from a 6.3% fall in 2020. The positive contributors included the reduction of worldwide COVID-19 spread, in addition to government measures which proceeded continually and strictly. Thus, the vaccination was the urgent action to support people preventing the transmission. In 2021, the government downgraded the measures in order to control the spread nationwide and worldwide. Moreover, the Thai government assured that the economic stimulus will be taken continually, in consistence to the entry policies started with entry screening of international arrivals. Furthermore, the international trade recovery was one of the important circumstances, which positively reflected to the domestic production.

Gross Domestic Product (GDP) in 2021 at current market prices valued at 16,166,598 million baht. After deducting 576,341 million baht of net factor income from the rest of the world, Gross National Income (GNI) registered at 15,590,257 million baht, increasing by 1.8%. Whereas per capita NI was 223,715 baht, higher than 220,368 baht in 2020, or an expansion of 1.5%.



Domestic Demand: increased from 2020, attributed to 0.6% and 3.1% rises in private final consumption expenditure and investment, compared to falls of 0.8% and 4.8% in 2020, orderly. In addition, government final consumption expenditure increased by 3.7%, compared to 1.4% growth in 2020. Supporting factors were from (1) the ease of government measures with regard to control the COVID-19 spread, which greatly contributed to economic activities (2) an increase in household's income (3) the expenditure stimulus measures and cost of living allowance attributed to a higher household's purchasing power, and 4) the expansion in machinery and equipment investment of private sector.

External Sector: exports of goods and services at current market prices increased by 17.5%, in contrast to a contraction of 19.8% in 2020. Such a rise mainly contributed to 22.1% in merchandise exports, on the contrary of 15.6% fall in service receipts. For the import side, imports of goods and services at current market prices improved by 30.6%. In particular, merchandise imports and service payments rose 27.0% and 45.5%, respectively. As a result, trade and services balance at current market prices valued a surplus of 5,261 million baht, lower than the surplus of 812,831 million baht in the previous year, attributed to a trade surplus of 1,276,220 million baht, compared to a surplus of 1,281,270 million baht in 2020. In contrast, services registered a deficit of 1,270,959 million baht, higher than a deficit of 468,439 million baht in 2020. However, net factor income was recorded at a deficit of 576,341 million baht. On the other hand, net current transfers recorded a surplus of 238,077 million baht. Ultimately, the current account registered a deficit of 333,003 million baht in 2021, declining from a surplus of 658,576 million baht in 2020.

National Income (NI) or income from factors of production in 2021 recorded the value of 15,590,257 million baht, increased by 1.8%. The expansion was from the compensation of employees, accounting for 32.5% of NI, with a 1.1% increase. Particularly, net property income and operating income, accounting for 38.8% of NI, rose by 2.7%. Moreover, consumption of fixed capital, accounting for 19.5% of NI, with a rise of 2.2%. On the contrary, taxes on production and imports (net), accounting for 9.2%, decreased by 0.4%.

Gross Domestic Savings in 2021 registered the value of 4,295,079 million baht, decreasing by 1.9%, compared to a drop of 15.9% in 2020. As a result, overall net savings valued at 1,381,291 million baht decreased by 3.9%, improving from a significant fall of 41.1% in 2020, contributed by a 33.9% reduction in net public sector saving, in contrast to an increase of 9.7% in net private sector saving.

Overall Economic Stability: saving revealed a downturn, with a fall of 1.9%. Meanwhile, overall investment increased by 24.5%. As a result, the saving-investment gap (equivalent to current account surplus) registered a deficit of 333,003 million baht, compared to a surplus of 658,576 million baht in 2020. The deficit accounted by 2.1% of gross domestic product.

GDP Implicit Price Deflator increased by 1.7%, improving from a fall of 1.3% in 2020. The agricultural price index grew by 1.0%, compared to a rise of 2.7% in the previous year. Furthermore, the non-agricultural price index increased by 1.8%, on the contrary of 1.6% decline in 2020. The consumer prices index (CPI) expanded by 1.2%, and the producer prices index (PPI) rose by 4.7%.

Gross Domestic Product

GDP in 2021 increased by 1.5%, compared to a 6.1% decrease in the previous year.

Gross domestic product in 2021 increased by 1.5%, rebounding from a drop of 6.1% in 2020, propelled by both agricultural and non-agricultural sectors. Agricultural sector grew by 2.3%, driven by higher yields of main crops. Besides, non-agricultural sector rose by 1.4%, improving from a 6.3% shrink in 2020. This expansion was attributable mainly to a recovery sign of overall situation of the global and domestic epidemic of COVID-19, due to intensive COVID-19 measures implementation control the spread of the disease and an accelerating vaccination in 2021. Additionally, the government also relaxed several COVID-19 restrictions including reopening the country to foreign tourists. In addition, international trade conditions began to recover which was a positive contribution to economic growth in this year.

Agricultural production increased by 2.3%, compared to a 3.3% fall in 2020. The expansion resulted from higher yields of main crops, including paddy, maize, cassava, sugarcane, pineapple and rubber. However, livestock production declined, originated by lower production of cattle, swine, broilers and hen's egg. Similarly, fishing production also decreased. Due to a drop of marine fishing.

Non-agricultural production increased by 1.4%, rebounding from a 6.3% fall in 2020. Industrial sector grew by 3.7%, compared to a 5.8% drop in 2020. This expansion was driven by manufacturing sector which increased by 4.7%, accelerating from 5.3% in the previous year, due to higher domestic and external demand and the previous year's low base. In addition, service sector increased by 0.3%, improving from a 6.6% shrink in 2020. This recovery was attributable to a relaxation of COVID-19 restrictions which allowed usual daily activities. In addition, vaccination roll-out and campaign also supported aspect of consumer's daily lives. Besides, the government implemented several stimulus packages to boost domestic production and spending which provided a positive contribution to several sectors such as wholesale and retail trade, repair of motor vehicles and motorcycles; accommodation and food service; and transportation and storage activities.

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

(%)

Economic activities	Real GDP growth			Structure at current prices		
	2019	2020	2021	2019	2020	2021
Agriculture	-1.0	-3.3	2.3	8.1	8.7	8.7
Agriculture, forestry and fishing	-1.0	-3.3	2.3	8.1	8.7	8.7
Non-agriculture	2.4	-6.3	1.4	91.9	91.3	91.3
Mining and quarrying	1.7	-9.1	-5.3	2.4	2.1	2.2
Manufacturing	-0.8	-5.3	4.7	25.6	25.6	27.2
Electricity, gas, steam and air conditioning supply	4.6	-8.0	0.3	2.6	2.5	2.5
Water supply; sewerage, waste management and remediation activities	5.6	0.6	4.6	0.4	0.4	0.4
Construction	1.6	1.3	2.2	2.5	2.7	2.7
Wholesale and retail trade; repair of motor vehicles and motorcycles	4.4	-3.2	1.7	16.2	16.9	16.3
Transportation and storage	2.7	-22.7	-2.8	5.8	4.8	4.6
Accommodation and food service activities	7.6	-36.9	-15.0	6.1	3.9	3.2
Information and communication	11.4	1.7	5.5	2.6	2.8	2.8
Financial and insurance activities	1.8	5.3	5.5	7.5	8.2	8.3
Real estate activities	3.8	1.5	1.7	2.5	2.7	2.7
Professional, scientific and technical activities	1.9	-4.9	-3.1	1.7	1.8	1.7
Administrative and support service activities	2.2	-21.5	-7.8	1.6	1.4	1.2
Public administration and defence; compulsory social security	1.3	1.6	0.2	5.9	6.6	6.5
Education	1.6	1.0	0.3	4.0	4.4	4.4
Human health and social work activities	3.8	3.2	3.5	2.2	2.5	2.5
Arts, entertainment and recreation	14.5	-12.9	4.9	0.7	0.7	0.7
Other service activities	2.7	-7.9	-6.1	1.3	1.3	1.2
Activities of households as employers	-0.6	2.7	-0.1	0.2	0.2	0.2
Gross domestic product, (GDP)	2.1	-6.1	1.5	100.0	100.0	100.0

Agricultural sector

Agricultural production grew by 2.3%. Prices of the agricultural products also increased by 1.0%.

Overall agricultural production increased by 2.3%, compared to a drop of 3.3% in 2020, owing to a great amount of rain at the end of 2020 and the beginning of 2021 and a global economic recovery after an improved COVID-19 situation. Non-perennial crops, perennial crops and forestry increased by 4.1%, 3.7% and 5.2% respectively, leading to a growth of 7.4% in agricultural services. However, livestock and fishing production decreased by 4.7% and 2.8%, orderly. Prices of agricultural products increased by 1.0%, following an increase of 2.7% in 2020.

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

	(%)		
Sector	2019	2020	2021
Agriculture, forestry and fishery growth	-1.0	-3.3	2.3
Non-perennial crops	-3.7	-7.7	4.1
Perennial crops	2.3	-0.3	3.7
Livestock	1.8	5.4	-4.7
Agricultural services	0.9	-21.9	7.4
Forestry	-3.2	3.1	5.2
Fishery	-0.7	0.2	-2.8
Implicit price deflator growth	3.2	2.7	1.0

Agriculture, forestry and fishing

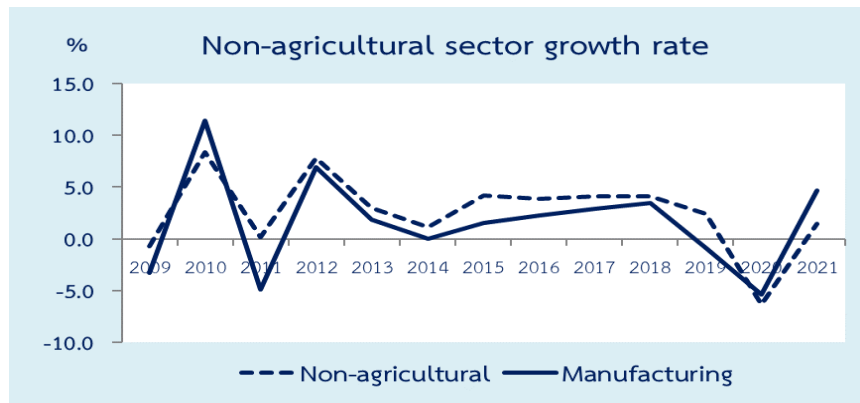
Total production expanded by 2.3%, consisting of major production activities as follows:

- **Non-perennial crops** grew by 4.1%, due to a higher yields of main crops, namely, paddy, sugarcane, cassava and maize.
- **Perennial crops** increased by 3.7%, due to a higher yields of major crops including oil palm, pineapple, and rubber.
- **Livestock** decreased by 4.7%, owing to lower production of swine, cattle, broiler and hen's eggs. Meanwhile, the production of buffalo and duck increased.
- **Agricultural services** grew by 7.4%, driven by an increase in planting and harvest services in line with planting areas.
- **Forestry** rose by 5.2%, due to an expansion in firewood and charcoal production.
- **Fishing and aquaculture** declined by 2.8%, resulted by an decrease in marine fishery despite an increase in freshwater fishery.

Implicit prices of agricultural products increased by 1.0%, decelerating from a 2.7% rise in 2020. This expansion was attributable to higher prices of main crops, namely, sugarcane, maize, oil palm, rubber, swine and cattle as well as fishing products, despite decrease in prices of paddy, pineapple, other fruits and broiler.

Non-agricultural sector
increased by 1.4%.

Non-agricultural sector



Mining and quarrying

Mining and quarrying decreased 5.3%, following a 9.1% drop in 2020. This contraction was attributable to a drop of 6.1% in natural gas and crude oil production, compared to a fall of 10.0% in the previous year. This reduction was mainly caused by a 16.7% decline in crude oil production, continued decreasing from a 6.9% fall in 2020, in line with lower production in main sources, namely, Sirikit and others in the S1 group, Erawan group and Tantawan Benchamas group. Additionally, the natural gas and condensate production declined by 3.5%, compared to a 10.9% drop in the previous year, due to lower production in main sources, namely, Erawan group, South Bongkot and Tantawan Benchamas group. Similarly, the quarrying of stone, sand, and clay dropped by 1.7%, continually decreasing from a fall of 1.2% in 2020.

Manufacturing

Manufacturing increased by 4.7%, recovering from a fall of 5.3% in 2020. This expansion was driven by higher domestic and external demand due to an ease of several COVID-19 restrictions and an implementation of several stimulus packages from the government to boost domestic consumption. Additionally, Thailand reopened a country welcoming foreign tourist on the end of 2021 as well as a recovery of international trade which experienced a deep contraction in 2020. In 2021, major manufacturing which increased are food products; chemical products; computer and electronic components; vehicle and parts; and rubber and plastic products.

Manufacturing with an expansion

- **Food products** increased by 3.8%, compared to a decrease of 4.6% in 2020, due to higher production of processed and preserved meat, processing and preserving of fruit, vegetable oil and prepared animal feeds in response to consumer's demand which was supported by economic recovery. However, manufacture of processing and preserving of fish, tea, coffee and bakery products decreased.
- **Leather and other products** grew by 6.8%, improving from a 17.0% shrink in the previous year. This growth was propelled by increases in every product, due partly to an increase in export of leather, tanning leather, and footwear.
- **Wood and products of wood** increased by 4.2%, continually growing from 2020, as a result of strong demand for construction and wooden products.
- **Paper and paper products** rose by 3.9% in accordance with a great demand from downstream industry and an expansion in courier activities.
- **Printing** grew by 0.7%, compared to a decrease of 7.6% in 2020, due to an increase in manufacture of newspaper and magazines and service activities related to printing.

- **Chemical and chemical products** increased by 6.6%, due to an expansion in manufacture of several products including fertilizers and polyethylene despite a decrease in soap and detergents.
- **Basic pharmaceutical products** and pharmaceutical preparation grew by 6.3%, continually increasing from the previous year, in response to higher domestic and external demand.
- **Rubber and plastic products** rose by 3.5%, owing to higher demand for automobile and motor vehicle tires as well as plastic products for construction. Manufacture of plastics articles for the packaging of goods, however, declined.
- **Non-metallic mineral products** increased by 2.2%, originated mainly from higher manufacture of ceramic sanitary ware and article of concrete.
- **Basic metals** grew by 21.4%, in contrast to a drop of 4.6% in 2020, as manufacture of steel plate, tin plate, aluminum, zinc and copper favorably expanded.
- **Fabricated metal products** rose by 4.4%, driven by an expansion in all types of products such as metal can, steam generators, tanks and metals for construction.
- **Computer, electronic and optical products** increased by 6.5%, resulting from an increase in the manufacture of electronic components and boards of computer and electronic devices such as circuit boards and data storage devices.
- **Electrical equipment** rose by 7.5%, continually increasing from the previous year, led by higher manufacture of air conditioner, battery and electrical motor.
- **Machinery and equipment** increased by 5.2%, due to greater manufacture of engines, machinery and turbine, compressors, agricultural machinery and office machinery. However, manufacture of industrial machinery declined.
- **Motor vehicles** grew by 17.1%, compared to a drop of 24.8% in 2020, driven by a higher manufacture of motor vehicles and parts of motor vehicles, resulted from higher domestic and external demand. Manufacture of bodies (coachwork) for motor vehicles; and manufacture of trailers and semi-trailers, however, decreased.
- **Other transport equipment** increased by 4.8%, recovering from a 14.5% fall in the previous year, driven by increase in manufacture of motor vehicles and building ships and boats. However, manufacture of railway locomotives and rolling stock; and spacecraft decreased.
- **Furniture** rose by 23.2%, propelled by manufacture of wooden and metal furniture, in response to external demand.
- **Other manufacturing** rose by 6.6%. This expansion was attributable to an increase in manufacture of jewelry, musical instruments, sport goods and toys, in response to a recovery of domestic economic condition.

Manufacturing with a contraction

- **Beverages** decreased by 0.5%, following a drop of 7.2% in 2020. The manufacture of beer, water and non-alcohol declined, despite an increase in manufacture of alcohol beverages.
- **Cigarette** dropped by 5.5% due to decrease in manufacture of tobacco products and cigarettes and cigars, despite expansions in manufacture of snuff and incubating tobacco leaves.
- **Textile** declined by 3.7%, compared to a shrink of 17.2% in the previous year. The contractions were found in almost every textile product. Meanwhile, manufacture of made-up textile and silk expanded favorably.
- **Wearing apparel** decreased by 8.7%, due to lower manufacture of readymade wearing apparel.
- **Petroleum refinery** declined by 1.7%, owing to lower domestic demand.

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

(%)

	Growth rate (real term)			Structure at current prices		
	2019	2020	2021	2019	2020	2021
Food products	-3.3	-4.6	3.8	14.1	15.4	15.4
Beverages	9.7	-7.2	-0.5	7.2	7.3	6.7
Tobacco products	-7.2	-2.0	-5.5	0.8	0.8	0.7
Textiles	-7.4	-17.2	-3.7	2.2	2.0	1.8
Wearing apparel	-1.4	-14.6	-8.7	2.4	2.2	1.8
Leather and related products	5.4	-17.0	6.8	1.1	1.0	1.0
Wood and products of wood and cork	2.1	4.1	4.2	1.1	1.2	1.2
Paper and paper products	-0.1	3.1	3.9	1.3	1.4	1.4
Printing and reproduction of recorded media	-2.0	-7.6	0.7	0.3	0.3	0.2
Coke and refined petroleum products	-4.6	-2.3	-1.7	11.4	9.3	10.4
Chemicals and chemical products	1.5	0.3	6.6	8.6	8.5	9.1
Basic pharmaceutical products and pharmaceutical preparations	8.2	9.9	6.3	1.2	1.4	1.3
Rubber and plastics products	-4.6	-7.1	3.5	6.6	6.7	6.6
Non-metallic mineral products	3.1	-4.3	2.2	3.6	3.7	3.5
Basic metals	-9.3	-4.6	21.4	1.4	1.4	1.8
Fabricated metal products, except machinery and equipment	1.1	-2.2	4.4	3.2	3.4	3.2
Computer, electronic and optical products	0.2	0.6	6.5	9.0	9.7	9.4
Electrical equipment	4.8	2.2	7.5	4.7	5.2	5.1
Machinery and equipment not elsewhere classified	-0.6	-0.4	5.2	4.2	4.5	4.4
Motor vehicles, trailers and semi-trailers	-5.1	-24.8	17.1	8.4	6.8	7.4
Other transport equipment	3.0	-14.5	4.8	2.6	2.4	2.3
Furniture	-1.4	-0.4	23.2	0.8	0.9	1.0
Other manufacturing	-0.2	-2.5	6.6	3.8	4.2	4.1
Repair and installation of machinery and equipment	3.6	-5.9	-10.6	0.1	0.1	0.0
Total value added	-0.8	-5.3	4.7	100.0	100.0	100.0

Electricity, gas and air conditioning supply

Electricity, gas, and air conditioning supply increased by 0.3% in accordance with electricity consumption which grew by 1.9%, compared with a decrease of 3.2% in 2020. The greater consumption was found in residential users as well as an improvement in business users. However, gas separation declined by 6.4%, continually decreasing from the previous year.

Electricity and gas supply growth (real term)

(%)

Items	2019	2020	2021
Electricity	5.0	-7.9	0.4
Gas separate plant	1.0	-9.4	-6.4
Total	4.6	-8.0	0.3

Electricity consumption growth and consumption structure

(%)

Items	2019	2020	2021
Consumption growth	2.8	-3.2	1.9
Residential	8.8	7.4	2.7
Small enterprises	4.9	-5.5	-1.9
Medium enterprises	2.7	-5.1	-0.7
Large enterprises	-1.3	-6.3	4.7
Special enterprises	4.8	-30.1	-15.4
Others	-5.3	-6.9	4.6
Consumption structure	100.0	100.0	100.0
Residential	26.2	29.1	29.3
Small enterprises	11.9	11.6	11.2
Medium enterprises	16.7	16.4	16.0
Large enterprises	39.7	38.5	39.5
Special enterprises	3.6	2.6	2.2
Others	1.8	1.7	1.8

Water supply; sewerage, waste management and remediation activities

Water supply; sewerage, waste management and remediation activities increased by 4.6%, accelerating from a 0.6% rise in 2020. This was attributable to water supply activities which grew by 2.2%, recovering from a 2.7% fall in the previous year. Besides, waste collection, treatment, and disposal activities; and materials recovery activities rose by 10.3% and 9.7%, following 3.6% and 14.4%, respectively.

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

(%)

Items	2019	2020	2021
Water supply	4.6	-2.7	2.2
Waste collection and Materials recovery	8.4	9.1	10.0
Total	5.6	0.6	4.6

Construction

Construction increased by 2.2%, accelerated from 1.3% in 2020. The main driver for this year was public construction which continuously rose from the prior year. It mainly contributed by other construction by the general government, which was precipitated by a rise in disbursement from the central budget, subsidies, and loans from the emergency decree authorizing the Ministry of Finance to raise loans to solve problems, remedy and restore the economy and society as affected by the Coronavirus disease pandemic. Whilst, the state enterprise construction suffered an ongoing downward growth because most of its operations were continuing projects from the last years, such as the Ninth Bangkok water supply improvement project and the pipeline improvement project of the Metropolitan Waterworks Authority (MWA), the Construction of Electricity Power Transmission System of the Provincial Electricity Authority (PEA), and petroleum exploration project of PTT Exploration and Production Public Company Limited (PTTEP). For private construction, it decreased this year. The dwelling construction was the main contributor to this unfavorable result, according to a rise in entrepreneur's cost, especially in construction materials, and a shrinking in a permitted construction area. In addition, as the major construction projects, like the Pink and Yellow rail line, had reached the end of the construction phase, the overall private construction was diminished. However, the non-dwelling construction by the private sector resumed on the upward side, which was attributable to the construction of industrial plants, particularly.

Wholesale and retail trade; repair of motor vehicles and motorcycles

Wholesale and retail trade, and repair of motor vehicle and motorcycles grew by 1.7%, compared a 3.2% fall in 2020, owing to acceleration in sales of motor vehicles and motorcycles and wholesale and retailed trade. These activities were driven by several government stimulus packages to propel domestic production and consumption as well as an ease of COVID-19 restrictions, together with a reopening to foreign tourists on the end of 2020.

Transportation and storage

Transportation and storage declined by 2.8%, following a 22.7% shrink in 2020. The contraction was attributable to land, water, and air transport services, which declined by 2.5%, 6.8%, and 40.0%, respectively. These were attributable to lower passenger transports, despite an improved COVID-19 situation. Besides, domestic travelling was still small compared to normal conditions although the government eased several COVID-19 restrictions. Additionally, the number of foreign tourists, allowed on the end of 2020, was still small. In this year, overall of passenger transports, however, reflected a sign of recovery in contrast to a deep decrease in 2020. The freight transport service for both agricultural and manufacturing product improved in accordance with the production and sales. Meanwhile, postal and courier activities rose by 38.4%, accelerating from 19.9% in 2020, in accordance with the significant growth of private operators' turnover.

Accommodation and food service activities

Accommodation and food service activities decreased by 15.0%, improving from a 36.9% shrink in the previous year. The recovery was attributable to improvements in both accommodation and food services with 34.9% and 7.5% decrease, compared to 49.5% and 26.9% drop in 2020, respectively. In this year, the number of foreign tourists stood at 427,869 people, driven by reopening country to foreign tourists since November 1, 2021 under Thailand Pass System in several programs, including Test and Go, Alternative Quarantine (AQ) and Sandbox, which requires to book an accommodation in advances. Besides, domestic travelling also showed a sign of recovery, propelled by a relaxation of COVID-19 restrictions and government's stimulus packages to boost domestic tourism such as Rao Tiew Duay Kan (We Travel Together) Program as well as several campaigns encouraging people to receive COVID-19 vaccine higher than two doses which allowed usual daily activities and increased tourists' confidence.

Information and communication

Information and communication expanded 5.5%, accelerating from 1.7% in 2020. This was mainly driven by telecommunication activities and computer programming and consultancy activities with growth of 6.6% and 6.6%, higher than 1.8% and 3.9% in the previous year. In addition, programming and broadcasting activities rose by 0.2%, improving a decrease of 1.0% in the previous year. However, activities of publishing of books, periodicals and other publishing and activities of motion picture, video and television program production, sound recording declined by 7.0% and 15.4%, respectively.

Financial and insurance activities

Financial and insurance activities expanded by 5.5%, slightly increased from a 5.3% growth in 2020. In 2021, the performances of commercial banks and other depository corporations revealed an improved growth in addition to increases in fee incomes, volume of credits, and deposits. The expansion is partly attributable to the government measures which stimulus the domestic economy. Furthermore, net interest margin on loans and deposits in commercial banks represented an enhanced growth in comparison to the previous year. For insurances, the overall operating result returned to rise, particularly in life insurance business. Hence, health insurance became more popular, according to people's consciousness in low-risk management from the hospital and medical expenses. However, non-life insurances slowed down, according to a decelerated premium, in contrast to a rise in claims. Moreover, the performance of securities continually developed, driven by a positive growth in turnover.

Real estate activities

Real estate activities increased by 1.7%, continually rising from 1.5% in 2020. This growth comprised a 2.8% increase in real estate activities with own or leased property. Meanwhile, real estate broker activities decreased by 10.4%, due partly to the COVID-19 pandemic and consumer's confidence towards economic situations, which resulted in an increase in consumer caution and a delay in the housing purchase decision.

Professional, scientific and technical activities

Professional, scientific and technical activities decreased by 3.1%, compared to a 4.9% fall in 2020. This contraction was attributable to a reduction in management consultancy activities; architectural and engineering activities; technical testing and analysis; legal and accounting activities; and advertising and market research activities. Meanwhile, activities of scientific research and development and activities of veterinary increased.

Administrative and support services activities

Administrative and support services activities decreased by 7.8%, improving from a 21.5% drop in 2020. This improvement was attributable to a recovery of travel agency, tour operator and reservation service activities in accordance with the number of foreign visitors which indicated a recovered figure by the end of 2020 and the number of domestic visitors which also reflected a sign of improvement driven by several government's stimulus packages, especially Rao Tiew Duay Kan (We Travel Together) Program. Additionally, activities of general cleaning of the building; activities of security and investigation; and activities of other employment placement agencies continually declined.

Education

Education increased by 0.3%. This expansion was represented by a 0.1% and a 2.3% increase of public and private education, orderly.

Human health and social work activities

Human health and social work activities rose by 3.5%, continuing to increase from 3.2% in 2020. This was attributable to continual expansions in both public and private health. However, social work activities both with and without accommodation for the children and elderly decreased, due partly to COVID-19 pandemic.

Art, entertainment and recreation

Art, entertainment, and recreation increased by 4.9%, rebounding from a 12.9% drop in the previous year, driven by activities of government lottery with a growth of 15.6%, in contrast to a 11.2% drop in the previous year. Botanical garden activities; sport activities; and creative, arts and entertainment activities still declined due to COVID-19 restrictions to control the pandemic, especially in the first half of 2020.

Other service activities

Other service activities declined by 6.1%, continually decreasing from 7.9% in 2020. This reduction was from membership organizations activities; repair of computers, and personal and household goods activities; and other service activities which fell by 8.8%, 0.1% and 13.4%, respectively.

Expenditure on Gross Domestic Product

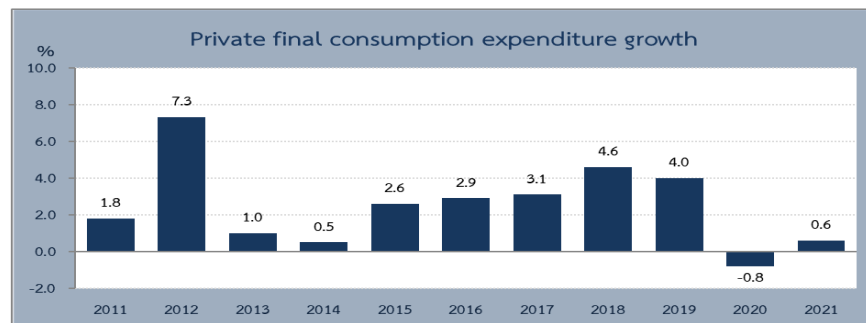
Private final consumption expenditure in 2021 expanded by 0.6%.

Composition of private final consumption expenditure

Private final consumption expenditure (PFCE) in 2021 expanded by 0.6%, compared to a 0.8% decrease in 2020.

Private final consumption expenditure began to recover from a contraction in the previous year. The main factor came from the improvement of the COVID-19 pandemic, which became milder and less severe. This is partly a result of the strict measures to control the spread in the last year, along with the accelerated provision and distribution of vaccines. Moreover, the government sector gradually relaxed the COVID-19 control measures, which has had a positive impact on employment and household income as a consequence. Furthermore, on account of stimulus measures and the cost of living support, household purchasing power improved. However, inflation rate is high, especially in the energy sector, causing people to be concerned with the economic recovery, which is reflected in the consumer confidence index standing at a low level, recorded at 44.7%, compared to 52.6% in 2020.

Spending on non-durable goods and net services increased by 2.1% and 1.0%, compared to a rise of 1.7% and 2.9% in 2020, orderly. Non-durable goods mainly expanded from food items and non-alcoholic beverages. In contrast, spending on durable and semi-durable goods decreased by 4.4% and 4.9%, compared to a drop of 16.5% and 11.8% in 2020, orderly.



Private final consumption expenditure in the domestic market, excluding residents abroad, fell by 1.8%, compared to a decrease of 12.8% in 2020. An expenditure of household final consumption and non-profit institutions serving households decreased by 1.7% and 5.3%, compared to a drop of 12.9% and 4.9% in 2020, orderly.

Private final consumption expenditure in the domestic market, excluding the expenditure of non-residents in the country and the expenditure of residents abroad, increased by 0.9%, compared to 2.0% in 2020. Whereas private final consumption expenditure in the domestic market, including the expenditure of residents abroad, dropped by 22.1%, compared to a fall of 65.5% in 2020. Therefore, private final consumption expenditure increased by 0.6%, improving from a fall of 0.8% in 2020.

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

(%)

Item	Growth rate (real term)			Structure at current prices		
	2019	2020	2021	2019	2020	2021
PCE in domestic market	3.7	-12.8	-1.8	117.0	102.7	100.1
less: expenditure of non-residents in the country	0.9	-80.0	-66.7	21.1	4.1	1.2
PCE excluding expenditure of non-residents	4.3	2.0	0.9	95.9	98.6	98.9
plus: expenditure of residents abroad	-3.2	-65.5	-22.1	4.1	1.4	1.1
PCE	4.0	-0.8	0.6	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 3.0%, compared to a growth of 2.2% in 2020. Food items expanded by 3.2%, continually growing from 2.8% in 2020. The expansion was driven by the consumption of bread and cereals; meat; oil and fat; vegetable; fruit. Spending on non-alcoholic beverages grew by 1.2%, improving from a decrease of 2.1% in 2020.

Alcoholic beverages and tobacco dropped by 1.7%, improving from a decrease of 4.2% in 2020. Alcoholic beverage consumption fell by 2.0% from a decrease of 6.3% in 2020. Meanwhile, tobacco consumption fell by 1.4%, continually declining from a decrease of 0.7% in 2020.

Clothing and footwear decreased by 9.1%, compared to a drop of 18.8% in 2020. The main factor was a decrease in expenses on clothing and footwear, which dropped by 8.7%, and 12.4%, compared to 19.0%, and 17.1% decline in 2020, respectively.

Housing, water, electricity, gas, and other fuels grew by 2.6%, decelerated from 3.3% in 2020. Expenses on electricity, gases and other fuels expanded by 2.3%, slowing down from a 5.3% rise in 2020. A rental for housing and repair of housing expanded by 2.6% and 1.3%, compared to a growth of 2.1% and a decrease of 5.4% in 2020, respectively. Meanwhile, household water supply consumption diminished by 0.2% from a 4.0% rise in 2020.

Furnishing, household equipment and routine maintenance of the house expanded by 0.9%, improving from a 2.6% decrease in 2020. The recovery was from household textiles, household appliances and glassware, tableware, household utensils, tools and equipment for house and garden, goods and services for routine household maintenance expanded by 1.2%, 0.8%, 4.5%, 1.6%, compared to decrease of 3.5%, 1.4%, 5.2% and 2.0% in 2020, orderly.

Health increased by 8.3%, accelerating from 6.3% in 2020. The improvement was contributed by expenses on outpatient and hospital services, which grew by 6.0% and 11.1%, accelerating from 1.6%, and 7.6% in 2020, respectively. Purchasing of medical products grew by 6.3%, slightly slowed down from 6.5% in 2020. The deceleration was from a decrease in demand for medical products following the relaxation of COVID-19 situation.

Transport dropped by 6.1%, compared to a decrease of 17.4% in 2020. Spending on vehicle purchases, personal transport equipment, transport services dropped by 3.3%, 4.1% and 13.0%, from a fall of 19.2%, 4.2% and 31.9% in 2020, respectively.

Communication grew by 1.7% from a rise of 1.1% in 2020. The expansion was mainly from postal services, which rose by 18.2%, compared to a 4.8% growth in 2020, consistent with entrepreneurs' turnover and private postal service consumption. Additionally, expenses on telephone equipment also well expanded. However, spending on telephone services grew by 0.7%, slowed down from a 1.0% rise in 2020.

Recreation and culture diminished by 2.9%, improving from a drop of 20.3% in 2020. Spending on recreational and cultural services expanded by 5.1%, accelerating from a 15.5% decrease in 2020. This expansion was mainly from lottery spending. Nevertheless, spending on package holidays dropped by 71.2% from a fall of 74.9% in 2020. Meanwhile, spending on newspapers, books, stationery, and other durable goods for recreation and culture continued to decrease from the previous year.

Education rose by 1.6%, compared to a drop of 1.3% in 2020. Expenses on vocational education, higher education and other education well expanded. Moreover, expenses for pre-primary education slightly improved from the previous year.

**PFCE by durability of
4 factors.**

Restaurants and hotels fell by 18.8%, compared to a decrease of 48.1% in 2020. The expenditure of restaurant and hotel services decreased by 13.5% and 44.8%, improving from 31.3% and 74.3% fall in 2020, respectively. The improvement resulted from the relaxation of COVID-19 restrictions, which prompted people to resume living like before the pandemic. In addition, the government measures to support and stimulate household spending were also a positive factor that enhanced the outlook.

Miscellaneous goods and services decreased by 0.4%, compared to a drop of 5.9% in 2020. Purchasing on personal effects and other services fell by 7.1% and 6.5%, improving from a fall of 19.7% and 13.9% in 2020, orderly. Purchasing on personal care and financial service increased by 4.2% and 2.5%, continually rose from 0.3% and 1.3% in 2020, orderly.

Individual consumption expenditure of non-profit institutions serving households (NPISHS) fell by 5.3%, continually dropped from a 4.9% decrease in 2020. Spending on health services, education, and social protection declined by 4.0% from a drop of 1.7% in 2020. Other services declined by 6.9%, compared to an 8.7% fall in 2020.

Private consumption expenditure classified by durability 4 categories

Durable goods decreased by 4.4%, compared to a drop of 16.5% in 2020. Purchasing on vehicles, furniture and furnishing, as well as personal jewelry, dropped by 3.3%, 1.5%, and 6.2%, compared to a fall of 19.2%, 3.2%, and 23.6% in 2020, orderly. However, spending on therapeutic appliances and equipment, along with photographic and cinematographic equipment expanded by 3.5% and 8.4%, compared to a drop of 7.4% and 3.4% in 2020, respectively.

Semi-durable goods declined by 4.9%, compared to an 11.8% depletion in 2020. Expenses on clothing and footwear dropped by 9.1%, compared to a fall of 18.8% in 2020. Nonetheless, glassware, tableware and household utensils; spare parts and accessories for personal transport equipment; toys and hobbies rose by 0.8%, 3.6% and 5.2%, compared to a drop of 1.4%, 7.0% and 1.6% in 2020, orderly.

Non-durable goods grew by 2.1%, continually rose from a 1.7% growth in 2020. Expenses on food and non-alcoholic beverages; medicine and medical products; personal care grew by 3.0%, 18.2% and 8.2%, continually grew from a rise of 2.2%, 7.2% and 6.3% in 2020, orderly. Whereas spending on alcoholic beverages and tobacco declined by 1.7%, compared to a 4.2% depletion in 2020.

Services increased by 1.0%, decelerated from 2.9% in 2020. Expenses on accommodation services, telephone services, and financial services expanded by 4.4%, 0.7% and 2.5%, decelerated from an expansion of 4.6%, 1.0% and 5.3% in 2020, respectively. Whereas, the expenses on restaurant and hotel declined by 18.8% compared to a drop of 48.1% in previous year.

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

	Growth rate (%)			Structure (%)		
	2019	2020	2021	2019	2020	2021
By purpose (COICOP)						
Food and non-alcoholic beverages	2.5	2.2	3.0	26.3	27.6	27.9
Alcoholic beverages, tobacco and narcotics	2.1	-4.2	-1.7	3.5	3.3	3.3
Clothing and footwear	1.8	-18.8	-9.1	4.7	3.8	3.4
Housing, water, electricity, gas and other fuels	4.1	3.3	2.6	10.0	10.3	10.5
Furnishings, household equipment and routine maintenance of the house	3.1	-2.6	0.9	4.4	4.3	4.2
Health	5.1	6.3	8.3	5.2	5.6	6.0
Transport	1.2	-17.4	-6.1	15.6	12.6	12.5
Communications	3.4	1.1	1.7	2.2	2.3	2.3
Recreation and culture	2.6	-20.3	-2.9	6.3	5.0	4.8
Education	4.4	-1.3	1.6	1.5	1.5	1.5
Restaurants and hotels	7.6	-48.1	-18.8	21.0	10.8	8.4
Miscellaneous goods and services	4.0	-5.9	-0.4	14.4	13.8	13.6
Individual consumption expenditure of Non-profit institutions serving households (NPISHs)	2.8	-4.9	-5.3	1.9	1.8	1.7
plus: Expenditure of residents abroad	-3.2	-65.5	-22.1	4.1	1.4	1.1
less: Expenditure of non-residents in the country	0.9	-80.0	-66.7	21.1	4.1	1.2
Private consumption expenditure	4.0	-0.8	0.6	100.0	100.0	100.0
By durable appearance						
Durable goods	2.4	-16.5	-4.4	9.7	8.3	8.0
Semi-durable goods	2.7	-11.8	-4.9	8.7	7.8	7.3
Non-durable goods	2.9	1.7	2.1	43.7	44.7	45.8
Services	5.9	2.9	1.0	37.9	39.2	38.9

Composition of general government final consumption expenditure

General government final consumption expenditure in real terms increased by 3.7%.

General government final consumption expenditure at current market prices recorded a value of 2,951,725 million baht, with an increase of 5.9%, accelerating from 2.1% in 2020. Comprehensively, government compensation of employees valued at 1,625,987 million baht with an increase of 2.8%, decelerating from 3.7% in the previous year. Meanwhile, purchases from enterprises and abroad registered a value of 842,502 million baht, which increased by 3.3% following a 1.2% rise in the prior year. Social transfers in kind–purchased market production recorded a value of 390,277 million baht with an increase of 37.9%, from 1.4% in 2020. The increase is attributable to health expenditure related to Covid-19 disease. Consumption of fixed capital recorded a value of 324,967 million baht with a 2.2% increase, decelerated from a 2.5% increase in 2020. Moreover, purchases by households and enterprises valued at 232,008 million baht rose by 10.3%, slowed down from an 11.9% increase in the previous year.

By the functions of government, total general government final consumption at current market prices recorded the value of 2,951,725 million baht, composed of education services with a 27.2% share of general government final consumption expenditure. The rest of government services by function comprised a 23.1% share for health services, 13.5% share for general public services, 11.2% share for economic affairs, 9.8% share for defence, 8.6% share for public order and safety, and 6.6% share for remaining services containing housing and community amenities, recreation, culture and religion, environmental, and social protection.

General government final consumption expenditure in real terms grew by 3.7% due to a 0.4% rise in compensation of employees, 1.4% in purchases from enterprises and abroad, 35.3% in social transfers in kind–purchased market production, and 0.7% in consumption of fixed capital. Nonetheless, purchases by households and enterprises increased by 8.0%.

Gross capital formation

Gross capital formation in 2021 at current market prices recorded the value of 4,628,082 million baht, consisting of 3,805,475 million baht of gross fixed capital formation and 822,607 million baht of the change in inventories.

In real terms, gross fixed capital formation grew by 3.1%, accelerating from a 4.8% drop in 2020. The positive outcome from both private and public sectors contributed 3.0% growth, rose from 8.1% decrease in 2020, and public investment expanded by 3.4%, decelerating from an increase of 5.1 in 2020.

Investment (by type of institutions)

	Value at current market prices (Million Baht)			Growth rate (real term) (%)		
	2019	2020	2021	2019	2020	2021
Construction	1,297,493	1,311,649	1,362,057	1.5	1.8	2.3
Private	571,075	555,311	559,878	0.6	-2.0	-0.6
Public	726,418	756,338	802,179	2.3	4.9	4.4
Equipment	2,514,892	2,323,717	2,443,418	2.2	-8.2	3.6
Private	2,278,324	2,073,445	2,187,046	3.1	-9.7	4.0
Public	236,568	250,272	256,372	-6.1	5.6	0.5
Investment	3,812,385	3,635,366	3,805,475	2.0	-4.8	3.1
Private	2,849,399	2,628,756	2,746,924	2.6	-8.1	3.0
Public	962,986	1,006,610	1,058,551	0.1	5.1	3.4

Private Investment

Private investment in 2021 at current market prices registered the value of 2,746,924 million baht, consisting of 559,878 million baht of private construction and 2,187,046 million baht of private machinery and equipment. In real terms, the private investment expanded by 3.0%, rising from a reduction of 8.1% in 2020.

Private Investment

	Value at current market prices (Millions Baht)			Growth rate (real term) (%)		
	2019	2020	2021	2019	2020	2021
Construction	571,075	555,311	559,878	0.6	-2.0	-0.6
Residential	309,458	286,823	281,578	-2.9	-6.7	-3.2
Non-residential	165,039	156,228	160,442	3.2	-4.5	1.0
Others	77,657	95,683	102,736	10.7	24.2	5.9
Cost of ownership transfer	18,921	16,577	15,122	-2.0	-11.9	-10.1
Machinery and equipment	2,278,324	2,073,445	2,187,046	3.1	-9.7	4.0
Private Investment	2,849,399	2,628,756	2,746,924	2.6	-8.1	3.0

Private construction at current market prices recorded the value of 559,878 million baht, consisting of dwelling 281,578 million baht, non-dwelling 160,442 million baht, and other constructions 102,736 million baht. In real terms, private construction dropped by 0.6%, compared with a fall of 2.0% in 2020. For a particular sector is described as follows, dwelling construction fell by 3.2%, continuing from 6.7% drop in 2020 and non-dwelling construction grew by 1.0%, improving from a decline of 4.5%; moreover, other construction increased by 5.9%, slowed down significantly from 24.2% in the previous year. Meanwhile, the cost of ownership transfer decreased by 10.1%, consecutively constricted from 11.9% in 2020.

Private investment in equipment and machinery at current market prices recorded a value of 2,187,046 million baht, which in real term expanded by 4.0%, accelerated from a 9.7% plunge in 2020. The improvement was evidently seen in machinery and equipment investment, particularly a rise in machinery and office equipment purchases. This positive result could be explained by an ease of COVID-19 restrictions, resulting in an uplift of economic activities. Meanwhile, investment in transportation fell due to a reduction in road motor vehicle purchases, which was seen by a shrink in records of newly registered cars and personal trucks. Nevertheless, the investment of other vehicles rose according to higher imports of aircraft and ships.

Public Investment

Public investment at current market prices recorded the value of 1,058,551 million baht, consisting of 802,179 million baht of public construction and 256,372 million baht of public machinery and equipment. In real terms, public investment rose by 3.4%, and decelerated from 5.1% in 2020. Such an improvement was contributed by a slowdown of government investment, while state enterprise showed a slight recovery.

Public Investment

	Value at current market prices (Million Baht)			Growth rate (real term)(%)		
	2019	2020	2021	2019	2020	2021
Construction	726,418	756,338	802,179	2.3	4.9	4.4
Dwellings	17,374	11,694	13,806	12.7	-28.9	16.9
Non-dwellings	139,027	129,066	133,367	0.2	-2.1	0.4
Others	570,017	615,578	655,006	2.5	7.6	5.0
Machinery and equipment	236,568	250,272	256,372	-6.1	5.6	0.5
Public investment	962,986	1,006,610	1,058,551	0.1	5.1	3.4

Public construction at current market prices recorded the value of 802,179 million baht, comprising dwelling 13,806 million baht, non-dwelling 133,367 million baht, and other constructions 655,006 million baht. In real terms, public construction grew by 4.4%, compared to a 4.9% rise in 2020. The government construction expanded by 7.0%, moderately slowed down from 8.3% in 2020. Partly, it was affected by a rise in disbursement from the central budget, subsidies, and loans from the emergency decree authorizing the Ministry of Finance to raise loans to solve problems, remedy, and restore the economy and society. Meanwhile, the state enterprise construction fell by 0.9%, continuing from 1.4% drop in 2020. Most of the projects in this year were ongoing projects such as the Ninth Bangkok water supply improvement project and the pipeline improvement project of the Metropolitan Waterworks Authority (MWA), the Construction of the Electricity Power Transmission System of the Provincial Electricity Authority (PEA), and petroleum exploration project of PTT Exploration and Production Public Company Limited (PTTEP).

Public investment in machinery and equipment at current market prices recorded the value of 256,372 million baht. In real terms, public machinery and equipment increased by 0.5%, which slowed down from a rise of 5.6% in 2020. The government equipment investment dropped by 2.5%, plunging from an expansion of 23.4% in 2020, partly contributed by a constrict in the disbursement of durable articles from the government agencies, not under the direct supervision of the Prime minister and ministries. For state enterprises, the investment rose by 4.0%, which improved from a 9.2% drop last year. The projects happening this year were from the Expressway Authority of Thailand (EXAT), the Electricity Generating Authority of Thailand (EGAT), and the Metropolitan Waterworks Authority (MWA).

Investment (by type of assets)

	Value at current market prices (Millions Baht)			Growth rate (real term)(%)		
	2019	2020	2021	2019	2020	2021
Tangible fixed assets	3,677,926	3,503,089	3,655,717	2.0	-5.1	2.7
Dwelling	326,832	298,517	295,384	-2.2	-7.9	-2.4
Non-dwelling	879,497	933,425	981,476	2.4	6.2	3.2
Machinery and equipment	2,459,968	2,261,400	2,368,163	2.3	-8.8	3.2
Cultivated assets	11,630	9,747	10,694	10.6	-17.2	6.9
Intangible fixed assets	115,537	115,700	134,636	3.1	6.8	16.3
Mineral exploration	70,666	60,363	66,584	9.6	-5.2	15.2
Software	44,871	55,337	68,052	-7.0	25.6	17.4
Costs of ownership transfer	18,921	16,577	15,122	-2.0	-11.9	-10.1
Investment	3,812,385	3,635,366	3,805,475	2.0	-4.8	3.1

Investment classified by type of assets

Tangible fixed assets at current market prices recorded the value of 3,655,717 million baht, consisting of 295,384 million baht in dwelling construction, 981,476 million baht in non-dwelling construction, 2,368,163 million baht in machinery and equipment, and 10,694 million baht in cultivated assets. In real terms, the investment in tangible fixed assets increased by 2.7%, which improved from a fall of 5.1% in 2020. For an individual sector could be explained as follow, dwelling construction shrank by 2.4% following a 7.9% minus in the prior year, non-dwelling construction increased by 3.2%, slowed down from a rise of 6.2% , machinery and equipment and cultivated assets expanded by 3.2%, and 6.9%, accelerated from a reduction of 8.8%, and 17.2% in 2020, respectively.

Intangible fixed assets at current market prices, the value was 134,636 million baht, comprising 66,584 million baht in mineral exploration and 68,052 million baht in computer software. In real terms, the investment in intangible assets expanded by 16.3%, growing faster from 6.8% in 2020, mainly driven by a surge of 15.2% in mineral exploration investment, which greatly improved from 5.2% growth in 2020. However, the expense of computer software decelerated from a growth of 25.6% to 17.4% in the current year.

Costs of ownership transfer at current market prices recorded the value of 15,122 million baht. In real terms, it decreased by 10.1%, continuously fell from 11.9% drop in 2020.

Change in inventories

Change in inventories at current prices rose with a value of 822,607 million baht in 2021. The overall outlook for the accumulated stock of agricultural products, manufacturing products, gold, and crude oil showed a positive sign. In contrast, paddy's stock level declined since there were lower yields compared to the last year. Although , yield of paddy evidently increased ,in contrast to an average price which decreased continually. Therefore, this resulted in the decline in the value of paddy. The expansion of agricultural stock was underpinned by the rise in rubber and cassava, while the positive outlook for the industrial-accumulated stock was attributable to computers and peripheral equipment, electronic components and circuit boards, plastics and synthetic rubber in primary forms, and refined petroleum products. The favorable outcome for this year resulted from various factors, including the easing measures to contain COVID-19 and the economic recovery in trade partner countries, which helped revive consumer demand. In addition, the ongoing recovery of private investment improved overall outcomes, according to consumer confidence and overall economic improvement. As a result, the manufacturing capacity had been expanded to support domestic and external demand expansion. On the other hand, the stocks of manufacturing products that declined in 2021 were preparing and spinning textile fibers, motorcycles, coffee tea, and herbal tea. Nonetheless, the inventory of gold soared because of substantial imports in the initial quarter of this year, partially influenced by the base effect since there was little export this year due to the peaking price that happened in 2020, causing a rush in gold export. Meanwhile, crude oil accumulation increased this year due to a significant global market increase in crude oil prices.

External Sectors

Exports of goods and services expanded

Exports of goods and services

Exports of goods and services at current market prices in 2021 disclosed the value at 9,479,767 million baht, increased by 17.5%, improved from a 19.8% contraction in 2020. This was mainly contributed by mounting exports of goods, while services receipts continually subsided.

Merchandise exports at current market prices recorded the value at 8,665,055 million baht, hiked up by 22.1%, on account of surge in exports of agriculture, fishery and manufacturing products. The expansion in agricultural products mainly resulted from increases in rubber, fruits and tapioca. The demand for rubber increased by exports to China. Exports of fruits grew not only from a double export value of durians to China, but also an increase in exports of longan and mangosteen. In addition, an export of tapioca increased from higher demand from China using as materials for producing feedstuff and alcohol, instead of maize which had significantly higher cost. However, exports of rice continued to drop, which partly due to comparatively higher price comparing with competitors. As a result, rice export quantity registered the value at 6.3 million ton, achieved the target set by Ministry of Commerce at 6 million ton. Manufacturing exports boosted from a rise of automotive product exports consisting of cars, pickup trucks and vehicle parts which resulted from low base in 2020 when there was a temporary shutdown of several automobile plants. Furthermore, other main manufacturing products, for instance electronic products, electrical appliances, metals, machinery and petro-chemicals stepped up. Moreover, agro-industry products rose on account of an increase in export of palm oil to India where palm oil import duty was decreased by the government in order to relieve palm oil shortage. Meanwhile, overall export of goods in terms of quantity built up by 15.3%, accelerating from 5.8% reduction in preceding year, while overall export prices increased by 5.8%.

Exports to major markets, for example Japan, U.S.A., Australia, China and ASEAN increase, which indicated the improvement of global demand, as a result of Covid-19 vaccination, a relief of Covid-19 restriction and stimulus packages performed by governments of trading partners.

Service receipts at current market prices posted the value at 814,712 million baht, shrank by 15.6%. This was principally resulted from the extremely low number of tourists, due to lockdowns and international travel restrictions in preventing the spread of COVID-19 disease. Consequently, travel and transportation receipts uncommonly decreased. On the contrary, other business services still expanded.

Imports of goods and services

Imports of goods and services increased

Imports of goods and services at current market prices in 2021 revealed the value of 9,474,506 million baht, increased by 30.6%, from a 14.4% decrease in 2020. This upturn was originated from both import of goods and service payments.

Merchandise imports at current market prices recorded the value of 7,388,835 million baht, scaled up by 27.0%, comparing to a decrease of 13.3% in 2020. The imports of consumer goods expanded principally by soaring households' purchasing power particularly in food products. Furthermore, mobile phones imports also grew up in accordance with work from home lifestyle. An increase in manufacturing production especially in export-oriented industries resulted in the expansion of raw material and intermediate goods imports, particularly in vehicles parts, integrated circuits, metal and fuel. Capital goods import increased especially for machineries, in line with a rise in investment in both industrial machinery and office equipment. As a result, overall import of goods in terms of quantity, rose by 18.2%, uplifting from a 10.6% fall in 2020, while overall prices of import goods present rose by 7.5%.

Service payments at current market prices showed the value of 2,085,671 million baht, rose by 45.5%. This was mainly due to expansion of freight payment, in line with increased world's freight prices. The value of other business service payment also increased. On the contrary, measures for preventing the spread of COVID-19 still resulted in international transportation restriction, which brought about lower travel payments.

Negligible surplus in goods and services balance. Current accounts deficit .

Trade and services balance and current account

Trade and services balance at current market prices registered a surplus of 5,261 million baht, lower than 812,831 million baht surplus in 2020. Trade balance showed a surplus of 1,276,220 million baht which was less than a surplus of 1,281,270 million baht in preceding year. While, service balance presented a deficit of 1,270,959 million baht, worse than a deficit of baht 468,439 million in the previous year. Primary income posted a deficit of 576,341 million baht, compared to a deficit of baht 343,616 million in prior year. Secondary income presented a surplus value of 238,077 million baht, larger than a surplus in the previous year. Ultimately, current account, comprising trade and services balance, primary income, and secondary income, registered a deficit of 333,003 million baht, from a surplus of 658,576 million baht in 2020.

Trade and services balance and current account at current market prices

Items	Value at current market prices (Million Baht)			Growth rate (%)		
	2019	2020	2021	2019	2020	2021
Exports	10,052,248	8,064,693	9,479,767	-5.3	-19.8	17.5
Goods	7,534,817	7,099,300	8,665,055	-7.1	-5.8	22.1
Services	2,517,431	965,393	814,712	0.6	-61.7	-15.6
Imports	8,473,402	7,251,862	9,474,506	-7.6	-14.4	30.6
Goods	6,707,886	5,818,030	7,388,835	-9.3	-13.3	27.0
Services	1,765,516	1,433,832	2,085,671	-0.5	-18.8	45.5
Trade and services balance	1,578,846	812,831	5,261			
Percentage to GDP (%)	9.3	5.2	0.0			
Primary income	-620,914	-343,616	-576,341			
Secondary income	223,501	189,361	238,077			
Current account balance	1,181,433	658,576	-333,003			
Percentage to GDP (%)	7.0	4.2	-2.1			

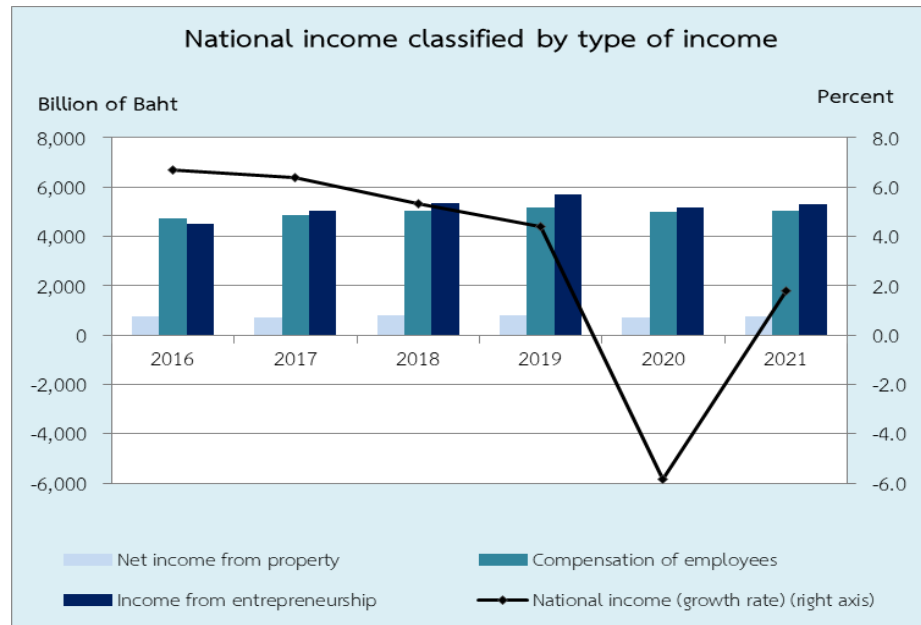
Exchange rate

Exchange rate presented an average value at 32.0 Thai Baht per U.S. Dollar in 2021, depreciating from 31.3 Thai Baht per U.S. Dollar in 2020.

National income and savings

National income

Gross National Income in 2021 recorded a value at 15,590,257 million baht, rose by 1.8%, improved from a 5.8% decline in 2020. Compensation of employees which accounted for 32.5% of gross national income, expanded by 1.1%. Return on capital, land, and entrepreneurship which comprised 38.8% of gross national income, increased by 2.7%, principally due to expansion in net return on income from property and return on entrepreneurship, grew up by 4.0% and 2.5%, respectively. In contrast, taxes on production and imports less subsidies dropped by 0.4%, improving from a 14.4% decrease in the previous year. Furthermore, consumption of fixed capital increased by 2.2%.



Type of income	Value at current market prices (Millions Baht)			Growth rate (%)		
	2019	2020	2021	2019	2020	2021
Compensation of employees	5,170,262	5,004,341	5,059,533	2.5	-3.2	1.1
Income from property and entrepreneurship	6,499,918	5,896,420	6,053,155	6.2	-9.3	2.7
Income from property (Net)	807,641	715,294	743,943	2.4	-11.4	4.0
• Households & Non-profit institutions	784,714	733,909	753,659	3.6	-6.5	2.7
• Government	22,927	-18,615	-9,716	-27.4	-181.2	47.8
Income from entrepreneurship	5,692,277	5,181,126	5,309,212	6.8	-9.0	2.5
• Households & Non-profit institutions	3,418,171	3,098,911	2,976,431	8.9	-9.3	-4.0
• Corporations	2,274,106	2,082,215	2,332,781	3.8	-8.4	12.0
Taxes on production and import less subsidies	1,685,533	1,442,630	1,437,424	2.5	-14.4	-0.4
Consumption of fixed capital	2,912,542	2,974,143	3,040,145	4.9	2.1	2.2
National income	16,268,255	15,317,534	15,590,257	4.4	-5.8	1.8
Population (1,000 persons)	69,315	69,509	69,688	0.3	0.3	0.3
National income per capita (Baht)	234,700	220,368	223,715	4.1	-6.1	1.5

Compensation of employees

Compensation of employees expanded by 1.1%, rebound from 3.2% reduction in 2020.

Compensation of employees or return on labor in 2021 presented a value at 5,059,533 million baht which is equivalent to 32.5% of gross national income (GNI), increased by 1.1%, from a 3.2% contraction in 2020. Compensation of employees in public sector increased by 2.1%, accelerated from a growth rate of 0.9% in the previous year. Compensation of employees in private sector grew by 0.5%, compared to a 5.5% drop in prior year. Compensation of employees can be divided into (1) wages and salaries increased by 0.9% and (2) employer's contribution in social security fund and other welfare, rose by 2.3%. Moreover, minimum wage in 2021 remained intact, while salaries in the government sector increased as usual without special salary account adjustment. Labor force survey by the National Statistical Office (NSO) in 2021 indicated that total employed persons slightly increased by 0.2%. Number of employed persons with employee status decreased by 4.0%. Public employees built up by 0.9% while private employees, 79.8% proportion of total employees, declined by 5.2%. However, the number of insurers under M33 increased by 0.1%, compared to a 4.8% drop in 2020.

Compensation of employees by economic activities

Sector	Value at current prices (Millions Baht)			Growth rate (%)		
	2019	2020	2021	2019	2020	2021
Agricultural sector	208,436	208,106	217,015	2.8	-0.2	4.3
Agriculture, forestry and fishing	208,436	208,106	217,015	2.8	-0.2	4.3
Non-agricultural sector	5,037,148	4,866,653	4,901,620	4.1	-3.4	0.7
Industrial	1,497,751	1,418,225	1,435,562	2.0	-5.3	1.2
Manufacturing	1,332,154	1,271,013	1,284,679	1.5	-4.6	1.1
Others	165,597	147,212	150,883	6.4	-11.1	2.5
Services	3,539,397	3,448,428	3,466,058	5.0	-2.6	0.5
Construction	205,893	207,627	205,347	1.8	0.8	-1.1
Wholesale and retail trade; repair of motor vehicles and motorcycles	522,165	510,510	508,339	6.6	-2.2	-0.4
Transportation and storage	203,935	167,803	158,429	6.3	-17.7	-5.6
Accommodation and food service activities	199,646	132,224	111,060	9.3	-33.8	-16.0
Financial and insurance activities	365,190	357,650	363,609	6.9	-2.1	1.7
Public administration and defence; compulsory social security	732,278	760,461	780,842	3.8	3.8	2.7
Education	638,580	649,059	663,973	4.0	1.6	2.3
Human health and social work activities	300,487	312,622	331,235	4.9	4.0	6.0
Others	371,223	350,472	343,224	4.5	-5.6	-2.1
The rest of the world	-75,322	-70,418	-59,102	-2,300.5	6.5	16.1
Total	5,170,262	5,004,341	5,059,533	2.5	-3.2	1.1

Compensation of employees expanded in both agricultural and non-agricultural activities.

Private sector and public sector compensation of employees

Public compensation of employees, 37.4% of total compensation of employees, increased by 2.1%, accelerating from a 0.9% rise in the preceding year. Compensation of employees of government officers stepped up by 2.8%, while compensation of employees of state enterprises decreased by 2.4%. Compensation of employees of private sector (net compensation of employees from abroad), include 63.8% share of total compensation of employees, slightly grew by the rate of 0.5%, compared to a 5.5% fall in 2020.

Compensation of employees by economic activities

Compensation of employees in the agricultural sector presented a value at 217,015 million baht, accounted for 4.3% of total compensation of employees, scaled up by 4.3%, rebounded from a 0.2% drop in 2020. This increment was from the expansion of planting area, particularly in paddy field, and an increase in overall agricultural product value. In addition, average annual precipitation was also higher than previous year.

Compensation of employees in the non-agricultural sector recorded a value at 4,901,620 million baht, 96.9% of total compensation of employees, increased by 0.7%, improved from a 3.4% drop in 2020. The expansion can be observed from both industrial and service sectors.

Compensation of employees in the industrial sector, 28.4% of total compensation of employees, expanded by 1.2%, from a 5.3% decrease in 2020. The largest proportion in the industrial sector was from manufacturing which ascended by 1.1%, from a 4.6% reduction in 2020. Compensation of employees in mining and quarrying expanded by 9.9%, contrasted with a 11.1% decline in the preceding year. Compensation of employees in electricity, gas, steam and air conditioning supply together with water supply; sewerage, waste management, and remediation activities grew by 0.2%, and 5.2%, respectively.

Compensation of employees in the service sector, 68.5% share of total compensation of employees, increased by 0.5%, compared to a 2.6% fall in 2020. Compensation of employees in financial and insurance activities grew by 1.7%, improved from a drop of 2.1% in prior year. An improvement was from higher compensation of employees in financial service activities especially in commercial bank. In addition, activities auxiliary to financial service and insurance activities also expanded. On the contrary, compensation of employees in insurance activities descended. Compensation of employees in public administration and defence; compulsory social security activities, education activities, and human health and social work activities boosted by 2.7%, 2.3%, and 6.0%, respectively. The increase was from compensation of employees from public sector which constituted major shares in these activities. In contrast, compensation of employees in construction declined by 1.1%, from an increase of 0.8% in the previous year. Compensation of employees in accommodation and food service activities, transportation and storage activities, and wholesale and retail trade; repair of motor vehicles and motorcycles reduced by 16.0%, 5.6% and 0.4%, respectively. The downturn persisted from a fall of 33.8%, 17.7%, and 2.2% in prior year. Lastly, compensation of employees in other services activities dropped by 2.1%, continued from a 5.6% decrease in 2020.

Net compensation of employees from the rest of the world¹ recorded a deficit value at 59,102 million baht. Compensation of employees from the rest of the world registered at 36,369 million baht, which was less than 95,471 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 2020.

Returns on land, capital, and entrepreneurs

Net return on land, capital, and entrepreneurship valued at 6,053,155 million baht which was equivalent to 38.8% of gross national income, grew by 2.7%, accelerating from a decline of 9.3% in 2020.

Income from farming and households and non-profit institutions serving households (NPISHs): valued at 2,976,431 million baht, accounted for 19.1% of gross national income, decreased by 4.0%, improved from a 9.3% reduction in 2020. Income from farms rose by 3.1%, from a 0.3% contraction in the preceding year. Such an improvement was primarily due to an increase in quantities of agricultural products in particular; rice, sugar cane, cassava, and palm oil, together with a rise in overall agricultural products' prices. Average annual precipitation was also higher than the previous year which enhanced production of main crops. Furthermore, other mixed income decreased from the preceding year as economy was still gradually recovering from COVID-19 pandemic, yet at lower rate of contraction.

Income from entrepreneurship or profit of corporations recorded a value at 2,332,781 million baht, rose by 12.0%, the increments were from both net saving of private corporations and state enterprises.

Net income from property of households and non-profit institutions serving households (NPISHs) valued at 753,659 million baht, expanded by 2.7%, from a 6.5% drop in 2020, resulting from rate of growth of property income receipt which was higher than that of property income payment.

Households and private non-profit institutions income from property

Item	Growth rate (%)			Structure (%)		
	2019	2020	2021	2019	2020	2021
Income						
Interest received	6.9	-10.8	-11.4	22.3	21.1	18.3
from banks	6.5	-11.5	-13.8	19.3	18.1	15.3
from others	10.1	-6.5	3.1	3.0	3.0	3.0
Dividends	2.7	-8.6	10.4	51.9	50.1	54.3
Rent	1.9	2.5	1.3	7.5	8.2	8.1
Others	6.1	6.8	-4.5	18.3	20.7	19.3
Total	4.2	-5.4	2.0	100.0	100.0	100.0
Expense						
Interest paid	6.6	-4.9	0.3	76.3	74.9	74.7
Rent	1.9	2.5	1.3	23.7	25.1	25.3
Total	5.4	-3.2	0.6	100.0	100.0	100.0

Households and NPISHs property income receipt posted a value at 1,108,564 million baht, increased by 2.0%, from a 5.4% fall in 2020. This was mainly due to increased dividend which was a main property income, at the growth rate of 10.4% recovering from a 8.6% decline in 2020. Households and NPISHs dividend receipt increased in all categories; for example, cooperatives, public corporations, private commercial banks, listed companies in Stock Exchange of Thailand, and private corporations. This was partly contributed by an improvement of profits from listed companies, resulting in higher dividend payout per share in several sectors. Moreover, land rent for agricultural area also increased. On the contrary, both investment income disbursements and interest income decreased at the rate of 4.5% and 11.4%, respectively. The contraction resulted from interest receipt from banks shrinking by 13.8%, which mainly contributed by a 32.2% decline of commercial banks' interest. In addition, interest receipts from Government Saving Bank, Government Housing Bank, and Bank for Agriculture and Agricultural Cooperatives also diminished. Lower Interest income was in line with lower average interest rate, coupled with a decrease in deposit of households and NPISHs. On the other hand, government bond interest receipt still expanded.

Households and NPISHs property income payment posted a value at 354,905 million baht which rose by 0.6%, from a 3.2% reduction in 2020. A rise was mainly from interest payment which was a principal property income payment item, expanded by 0.3 %, contrasted with a 4.9% decline from the previous year. Interest paid to commercial banks decreased due to a slowdown in consumer loan amount (loan for land, loan for dwelling and real estate, and loan for working abroad are excluded). In addition, interest on loan from life insurance policy, credit card interest, and interest paid to pawnshop diminished. In contrast, Interest paid to cooperatives, mortgage interest, and land rent for agricultural area slightly increased.

General government income from property increased by 14.0%, accelerating from a 19.4% drop in 2020. Income from dividends rose by 26.8%, comprised of dividends received from income of service branch; namely, the Electricity Generating Authority of Thailand (EGAT), the Provincial Electricity Authority (PEA), and the Metropolitan Electricity Authority (MEA). This also included income of special branch of state enterprises; namely, Government Savings Bank, and Government Housing Bank, and the other dividend income. In contrast, interest received dropped by 7.8% which was partly a reduction of deposit interest received from financial institutions. Additionally, a 13.0% decrease in rental income was a result of a fall in real estate rental fee.

General government income from property

Item	Growth rate (%)			Structure (%)		
	2019	2020	2021	2019	2020	2021
Rent	-49.6	-37.1	-13.0	3.6	2.8	2.1
Interest received	-1.1	-7.2	-7.8	16.5	19.0	15.3
From Banks	2.3	-14.5	-6.5	13.3	14.1	11.5
From others	-12.9	22.7	-11.5	3.2	4.9	3.8
Dividend	6.1	-25.4	26.8	60.4	55.9	62.2
Sub total	-0.3	-22.2	16.9	80.5	77.7	79.6
Investment income on pension entitlement	4.6	-7.8	4.1	19.5	22.3	20.4
Total	0.7	-19.4	14.0	100.0	100.0	100.0

Saving and saving - investment gap

Gross saving posted a value at 4,295,079 million baht, decreased by 1.9%, returned from a 15.9% decline in 2020. Net saving valued at 1,381,291 million baht, dropped by 3.9%, from a 41.1% fall in the previous year. This was mainly due to a deficit of 1,325,481 million baht in government net saving which was consecutively the eight year in deficit and was deeper than a deficit of 994,676 million baht in 2020. However, net saving of public corporations and government enterprises greatly expanded by 30.4%, accelerated from a 28.3% reduction in the preceding year. In addition, both net saving of households and NPISHs, and private corporation also grew, leading to the growth rate of 9.7% for private sector, from a 3.3% fall in 2020. Consumption of fixed capital registered a value at 3,040,145 million baht, grew by 2.2%, continued from a 2.1% rise in 2020.

Saving and gross capital formation

Item	Value at current price (Millions Baht)			Growth rate (%)		
	2019	2020	2021	2019	2020	2021
Gross capital formation	4,022,115	3,717,726	4,628,082	-2.6	-7.6	24.5
• Private sector	2,849,399	2,628,756	2,746,924	2.8	-7.7	4.5
• Public sector	962,986	1,006,610	1,058,551	0.5	4.5	5.2
• Change in inventories	209,730	82,360	822,607			
Gross saving	5,203,547	4,376,302	4,295,079	3.2	-15.9	-1.9
• Net saving	2,441,957	1,437,709	1,381,291	1.2	-41.1	-3.9
• Depreciation	2,912,542	2,974,143	3,040,145	4.9	2.1	2.2
• Discrepancy	150,952	35,550	126,357			
Saving-investment gap	1,181,432	658,576	-333,003	29.3	-44.3	-150.6
Saving-investment gap to GDP (%)	7.0	4.2	-2.1			

Private sector net savings

Private net savings comprised of households, non-profit institute serving households (NPISHs), private corporations, and cooperatives presented a value of 2,469,946 million baht, expanded by 9.7%, improved from a 3.3% decline in 2020.

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

Net savings of households and NPISHs showed a value at 984,076 million baht presenting the rate of growth at 5.9%. The details are as follows.

Households and NPISHs income valued at 10,975,687 million baht which increased by 2.2%, from a drop of 1.3% in 2020. Primary income receipt which was the principal source of income, slightly fell by 0.3%, improved from a 5.5% drop in 2020, consisting of (1) compensation of employees, 46.1% share of households and NPISHs income, increased by 1.1%, (2) property income increased by 2.0%, from a 5.4% contraction in 2020, owing to higher dividends from private corporations, public corporations, and cooperatives (3) gross operating surplus and households mixed income which was equivalent to 29.2% of total income, dropped by 3.3%, from a 8.8% decline in 2020. After including compensation of employees, property income, and gross operating surplus and households mixed income, Primary income receivable decreased by 0.3%. Secondary income receipt comprised of social benefit other than social transfers in kind and other current transfers, increased by 19.6%, decelerated from a high growth rate in the previous year.

Primary and secondary income payment, inevitable expenses valued at 1,415,193 million baht, slightly increased by 0.1%, from a 5.3% decline in 2020. Property income payable which was main expense item, increased by 0.6%, from a 3.2% drop in prior year. Income taxes fell by 2.9%, from a 5.7% decrease in the previous year. Net social security contribution expanded by 1.1%, while transfer to government and rest of the world increased by 1.1%.

Personal income, expenditure and saving

Item	Value at current prices (Millions Baht)			Growth rate (%)		
	2019	2020	2021	2019	2020	2021
Personal income	10,889,020	10,744,593	10,975,687	5.6	-1.3	2.2
Personal outlay	1,493,876	1,414,211	1,415,193	11.8	-5.3	0.1
Disposable personal income	9,395,144	9,330,382	9,560,494	4.7	-0.7	2.5
<u>Less</u> Private consumption expenditure	8,406,384	8,307,938	8,455,173	5.0	-1.2	1.8
<u>Plus</u> Adjustment for the change in pension entitlement	153,770	118,049	103,726	3.1	-23.2	-12.1
<u>Less</u> Consumption of fixed capital	209,703	211,164	224,971			
Net savings	932,827	929,329	984,076	2.4	-0.4	5.9
Net Disposable income per capita (Baht)	132,517	131,195	133,962	4.5	-1.0	2.1
Personal outlay per capita (Baht)	121,278	119,523	121,329	4.7	-1.4	1.5
Personal savings per capita (Baht)	13,458	13,370	14,121	2.1	-0.7	5.6

As a result, households and NPISHs disposable income rose by 2.5%, improved from a 0.7% reduction in 2020. Deducting by private final consumption expenditure which revealed growth rate at 1.8% lower than that of disposable income, and adjusting by the adjustment for the change in pension entitlement, net savings of households and NPISHs expanded by 5.9%, improved from a 0.4% contraction in 2020. In other words, per capita net savings of households and NPISHs which posted a value at 14,121 baht, increased by 5.6%.

2) Net savings of private corporations and cooperatives

Net savings of private corporations and cooperatives, which adjusted by the national accounts definition, valued at 1,485,870 million baht, expanded by 12.4%, from a drop of 5.2% in 2020. The increase was partly attributable to a rise in net saving of cooperatives presented value at 10,669 million baht with 8.8% growth rate, recovered from a 20.8% contraction in 2020. In addition, net savings of private corporations registered a value at 1,475,201 million baht, increased by 12.5%, contrasted with a 5.1% drop in 2020. An increase in net savings of private corporations was mainly from an improvement in profitability of listed companies in the Stock Exchange of Thailand (excluding private commercial banks and public corporations) and private commercial banks in accordance with the conceptual framework of national accounts. In addition, other private corporations and net international transfer also grew.

Net saving

Item	Value at current prices (Millions Baht)			Growth rate (%)		
	2019	2020	2021	2019	2020	2021
Net savings	2,441,957	1,437,709	1,381,291	1.2	-41.1	-3.9
Private sector	2,326,907	2,250,717	2,469,946	2.0	-3.3	9.7
• Households	932,827	929,329	984,076	2.4	-0.4	5.9
• Corporations & cooperatives	1,394,080	1,321,388	1,485,870	1.7	-5.2	12.4
Public sector	115,050	-813,008	-1,088,655	-11.9	-806.7	-33.9
• Government	-138,197	-994,676	-1,325,481	-88.9	-619.8	-33.3
• Enterprises	253,247	181,668	236,826	24.3	-28.3	30.4
Gross saving	5,203,547	4,376,302	4,295,079	3.2	-15.9	-1.9
Gross savings to GDP (%)	30.8	27.9	26.6			

Public sector net savings

Public net savings consisted of net savings from general government, public corporations and government enterprises presented a deficit at 1,088,655 million baht. The deficit remained at a high level, continued from 2020. Government net savings recorded a deficit of 1,325,481 million baht, deeper than a deficit of 994,676 million baht in 2020. This succession of deficit started in 2014. In contrast, net savings of public corporations and government enterprises posted a surplus at 236,826 million baht, increased by 30.4%, from a 28.3% reduction in the preceding year.

1) General government net savings

General government net savings recorded the deficit of 1,325,481 million baht, increased from 994,676 million baht in 2020, considered to be the eighth consecutive year deficit. General government revenue amounted to 4,475,768 million baht, with an increase of 2.3%. The increase was from taxes, the primary income, which rose by 2.6%. Concurrently, government expenditure in non-investment items posted at 5,372,556 million baht, which grew by 8.9%. The value of adjustment for the change in pension entitlement posted at 103,726 million baht with a decrease of 12.1%, and consumption of fixed capital valued 324,967 million baht with an increase of 2.2%. Consequently, general government net saving dropped by 33.3%.

A rise in general government income in 2021 came mainly from increases in taxes on production and imports, property income from the government, current taxes on income and wealth, which could be categorized as follows:

General government income, expenditure and savings

Item	Value at current prices (Million Baht)			Growth rate (%)		
	2019	2020	2021	2019	2020	2021
General government income	4,788,167	4,374,699	4,475,768	2.7	-8.6	2.3
General government expenditure	1,731,635	2,146,269	2,420,831	5.8	23.9	12.8
Disposable general government income	3,056,532	2,228,430	2,054,937	1.0	-27.1	-7.8
<u>Less</u> Final consumption expenditure	2,730,872	2,787,105	2,951,725	3.1	2.1	5.9
<u>Less</u> Adjustment for the change in pension entitlement ^{1/}	153,770	118,049	103,726	3.1	-23.2	-12.1
<u>Less</u> Consumption of fixed capital	310,087	317,952	324,967	3.1	2.5	2.2
General government net savings	-138,197	-994,676	-1,325,481	-88.9	-619.8	-33.3

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 sources of revenues, 34.9% of total general government revenue, rose by 2.4%. The increase of tax revenue was mainly from

(1) Value Added Taxes (VAT) as a result of a rise of VAT from domestic consumption and imports. VAT from domestic consumption increased as economy recovered from contraction in 2020 while private consumption expenditure expanded. Sectors of which VAT collection expanded were wholesale and retail trade, and auto and bicycle repair sector; manufacturing sector which included manufacture of refined petroleum products, vegetable oils, pharmaceutical and medical chemical products, and other chemical products; mining and quarrying sector; transportation and storage sector; information and communication sector; financial and insurance activities sector; real estate sector; and administrative and support service activities sector. Sectors of which VAT collection contracted were manufacturing sector which included manufacture of outerwear, malt liquors and malt, and other communication equipment; construction sector; accommodation and food service activities sector; professional, scientific and technical activities sector; and arts, entertainment and recreation sector. For VAT on imports, the increase was a result of higher imports both in value and quantity, incorporating with depreciation of Thai Baht and an increase of Dubai crude oil price. (2) Import duties rose by imports of motor vehicle parts, passenger cars, pharmaceutical and medical goods, and cosmetics. (3) Specific business tax expanded in accordance with credit and commercial banks income (4) Liquor tax and Liquor Stamps increased in Q4/2021 on account of an ease of COVID-19 prevention measure (5) Motor vehicle taxes and fees (6) Real estate registration fee increased in line with condominiums sales (7) The income of 23.0% of the lottery sales and interest increased as a result of discontinuation of several lottery prize draws in 2020. (8) Automobile tax rose from entrepreneurs in car industry, free zone and imports. This was partly attributable to increased sales from new models launch. (9) Stamp duty increased from contracts and instruments.

Decreases in revenue included taxes from petroleum royalty, beer tax, and tobacco stamps corresponding to lower consumption. This was due to a shift away from working on-site, low frequency of transport services, and curfews. Moreover, the collection of building and land tax was still minimal resulting from reduced tax rates.

Property income from government and investment income payable on pension entitlements accounted for 5.2% of total government revenue, increased by 14.0%. The expansion was driven by the income from dividend with the share of 62.2% of total government property income, increased by 26.8%, partly contribute to dividend receivable, income from department of service, income of special public agencies, and the other dividend income. Meanwhile, other property income, namely investment income payable on pension entitlements

accounted for 20.4% of total government property income, rose by 4.1%, due to a rise of dividend received (child allowance and old-age program) from the social security fund. On the contrary, interest income which accounted for 15.3% of total government property income, fell by 7.8%, driven by a decline of interest rate for deposit of financial institutions. Moreover, rental income which was 2.1% of total government property income, decreased by 13.0%, attributed partly to a fall in real estate rental fees.

Current taxes on income, wealth, and etc., accounted for 21.8% of total government revenue, which increased by 2.9%. Tax revenue increment was mainly from corporate income tax, increased by 11.1% due partly to (1) Tax collection on forecasted net profit rose by 33.9%, following an improvement of first-half profit of listed companies and strengthening revenue department's tax collection (2) Withholding tax collection by the private sector increased by 21.5%, partly due to lower withholding tax rate from 3.0% to 1.5% starting in 2020, while the rates in 2021 were lower from 5.0% and 3.0% to 2.0% for the submission through e-Withholding Tax system. This incorporated with higher exports resulting in increased tax revenue. (3) Tax collection on service and profit distribution rose by 12.0% due to the recovery of companies' first-half net profit comparing with 2020. However, (4) Tax collection on net profit declined by 16.4%, from reduced companies' profits in 2020 resulting from the COVID-19 pandemic.

Personal income tax decreased by 3.3%, improved from a fall of 6.2% in 2020. This was partly due to tax collection on salary payments with a decline of 0.4%, compared to a 0.6% drop in 2020, following a recovery of employment and personal income. Withholding tax collection on salary payments of the private sector decreased by 0.4%, while that of public sector increased by 4.9%. Moreover, withholding tax collection on interest received increased by 1.1%. Meanwhile, withholding tax collections on service fees expanded by 8.6%. Withholding tax collection on real estate transactions rose by 9.5%.

Petroleum income tax collection decreased by 29.6% from lower petroleum sales and increased cost of decommission of oil rig.

Social contributions, which accounted for 13.3% of total government revenue, expanded by 1.1%. The gain was partly from an increase in employers' imputed social contributions; namely pension, perpetuity, and medical allowances. The employers' actual social contributions declined by a reduction of the rate of social security contribution as a remedy for insurers affected by Covid-19 pandemic. However, employers' actual social contributions towards government pension fund, local administration pension fund, and private teacher aid fund increased. Lastly, households' actual social contributions decreased in line with employers' actual contribution, resulting from reduction of the rates for contribution.

Miscellaneous current transfers receivable, which accounted for 1.3% of total government revenue, expanded by 6.0%. The expansion was mainly contributed by a rise in income from donations, indemnification, government lottery office's unclaimed lottery prize and interest, and fines for lawsuit settlement.

Interest paid, which accounted for 3.7% of total government expenditure, rose by 10.1%, contrasted with a fall of 2.3% in 2020. The increase was mainly from higher interest expenses from both domestic and foreign debt. For domestic debt, (1) government bond interest paid expanded by 8.3% in accordance with outstanding amounts especially from medium and long-term bond issuance in 2020 and 2021. (2) interest expense on promissory notes for financing deficit increased by 30.0%, while (3) interest expense on promissory notes for debt restructuring rose by 28.4%. In contrast, short-term loan interest of commercial banks declined by 25.6%, following a decrease in short-term interest rate. For foreign borrowings, interest expense highly increased.

Subsidies which accounted for 2.3% of total government expenditure, expanded by 50.4% as a result of (1) an increase in subsidy for HSD, Gasohol E20 and E85, and LPG of Fuel fund for alleviating the burden from living expense of the public from a hike in fuel prices, (2) subsidy of cane and sugar fund as a remedy for farmers and sugarcane mills, and (3) private education subsidy for the management of fundamental education.

Social benefits other than social transfers in kind, which accounted for 12.6% of total government expenditure, increased by 3.9%. The increase was from usual pension; perpetuity; monthly payment of perpetuities; medical expenses; allowance for the elderly; allowance for the disabled; child support grant; severance in case of old age pension and children's allowance, and government contributions for elderly and children's allowance. On the other hand, severance in case of unemployment and maternity decreased.

Miscellaneous current transfers payable, which accounted for 12.1% of total government expenditure, rose by 43.6%. The addition was from measures under the work plan to assist, remedy and compensate members of the public affected by the spread of the Coronavirus disease, including (1) "Rao Chana" aiming at reducing living expense of the public, (2) "M33 Rao Rak Kan" for supporting cost of living for insurers under Article 33, (3) an increase of purchasing power for State Welfare Card Holders, (4) a support of expenses for preschool, primary, secondary, vocational, and university education. (5) a relief of utilities expenses for electricity and water bills, (6), an increase of purchasing power for vulnerable groups, and (7) a relief for taxi drivers and motorcycle-taxi riders. There were also measures under the work plan to restore the economy and society as affected by the spread of the Coronavirus disease, including (1) "50-50 co-payment scheme" for supporting living expense of the public while increasing domestic consumption resulting higher business activities for small vendors, (2) "Rao Tiew Duay Kan", (3) "Tour Travel Thai" as a stimulus measure for domestic travel supporting tourism and related industries, and (4) "Ying Chai Ying Dai" stimulating domestic consumption. On the contrary, there were decreases in aids for victims of disasters, expenses for training outsiders, and cost of indemnification.

2) Net savings of public corporations and government enterprises

Net savings of public corporations and government enterprises valued at 236,826 million baht, increased by 30.4%, rebounded from a 28.3% drop in 2020. Public corporations and government enterprises net profit in business accounting figure of the 2021 calendar year showed a value at 650,458 million baht, rose by 156.5%. After consolidating with the adjustment according to national accounts definition, net profit of public corporations and government enterprises before profit allocation grew by 28.7%, accelerated from a fall of 32.9% in the previous year. After deducting by profit allocation, comprised of (1) dividend (2) profit delivered to government and (3) bonus payment from net profit, which increased by 26.2%, consequently, net savings of public corporations and government enterprises highly increased.

Considering net savings of state enterprises classified by organization establishment, public corporations net saving or performance in national accounts aspects posted at 48,532 million baht, increased by 107.1%, compared to a 73.2% decrease in 2020. Other state enterprises showed net savings of 188,294 million baht, rose by 19.0%, from a drop of 4.6% in 2020.

Saving – investment gap

Gross saving registered a value at 4,295,079 million baht, lessened by 1.9%, improved from a 15.9% contraction in 2020. Gross capital formation or investment registered at 4,628,082 million baht, increased by 24.5%, rebounded from a drop of 2.6% and 7.6% in 2019 and 2020, respectively. Such gross saving and investment brought about a deficit of saving-investment gap at 333,003 million baht, which was lower than a surplus of 658,576 million baht in 2020. The deficit was equivalent to 2.1% of GDP.

GDP Implicit Price Deflator

Overall price level increased by 1.7%.

GDP Implicit Price Deflator

GDP Implicit Price Deflator in 2021 increased by 1.7%, accelerating from a fall of 1.3% in 2020. Agricultural price deflator increased by 1.0%, slowing down from 2.7% in 2020. Moreover, non-agricultural price deflator expanded by 1.8%, in contrast to a decline of 1.6% in 2020 as a result of an increase in the deflators contributed chiefly to major activities, namely mining and quarrying; manufacturing; electricity, gas, steam and air conditioning supply; water supply; sewerage, waste management and remediation activities; construction; transportation and storage; accommodation and food service; real estate activities; professional, scientific and technical activities; administrative and support services activities; public administration and defence; education; human health and social work activities; art, entertainment and recreation; and other service activities. Decreasing deflators were found in wholesale and retail trade; information and communication; and financial and insurance activities.

On the expenditure side, the overall price deflator rose by 1.2%, higher than a fall of 0.4% in 2020. Private consumption expenditure price deflator increased by 1.2%. Furthermore, the price deflator of government final consumption expenditure grew by 2.1%. The price deflator of investment also grew by 1.5%. For the external sector, the price deflator of exports goods and services expanded by 5.8%. Similarly, the price deflator imports of goods and services increased by 11.0%.

The consumer price index (CPI) in 2021 increased by 1.2%, compared to a fall of 0.8% in 2020. In particular, the producer price index (PPI) grew by 4.7%, compared to a fall of 1.8% in 2020.

Growth rate of implicit price deflator

(%)

Implicit price deflator	2017	2018	2019	2020	2021
Gross domestic product, (GDP)	1.9	1.4	1.0	-1.3	1.7
Agriculture	0.4	-2.8	3.2	2.7	1.0
Non-agriculture	2.0	1.8	0.8	-1.6	1.8
Expenditure on gross domestic product	1.2	0.0	0.8	-0.6	1.2
Private final consumption expenditure	0.8	1.0	1.0	-0.4	1.2
General government final consumption expenditure	2.3	2.2	1.5	0.7	2.1
Gross fixed capital formation	1.6	0.3	0.2	0.2	1.5
Exports of goods and services	0.3	-0.5	-2.4	-0.1	5.8
Imports of goods and services	1.3	0.8	-2.6	-0.6	11.0
Consumer price index (CPI)	0.7	1.1	0.7	-0.8	1.2
Producer price index (PPI)	0.7	0.4	-1.0	-1.8	4.7

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Main Accounts

Account 1 Production account

(Million Baht)

Transactions and balancing items	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Uses								
Intermediate consumption	19,533,097	19,175,997	19,155,793	20,134,060	21,103,117	21,045,569	19,504,780	20,910,284
Value added, gross / Gross domestic product	13,230,306	13,743,478	14,590,337	15,488,664	16,373,340	16,889,169	15,661,150	16,166,598
Consumption of fixed capital	2,214,196	2,344,834	2,488,386	2,628,663	2,775,404	2,912,542	2,974,143	3,040,145
Value added, net / Net domestic product	11,016,110	11,398,644	12,101,951	12,860,001	13,597,936	13,976,627	12,687,007	13,126,453
Resources								
Output	31,554,616	31,574,346	32,367,535	34,170,430	35,912,619	36,329,176	33,756,053	35,671,451
Market output	29,474,523	29,374,925	30,074,425	31,806,964	33,442,549	33,758,880	31,130,845	32,990,077
Non-market output	2,080,093	2,199,421	2,293,110	2,363,466	2,470,070	2,570,296	2,625,209	2,681,374
Taxes on products	1,303,157	1,388,433	1,422,778	1,489,791	1,607,673	1,640,638	1,464,749	1,501,560
Subsidies on products (-)	94,370	43,304	44,183	37,497	43,835	35,076	54,872	96,129

Account 2 Generation of income account

(Million Baht)

Transactions and balancing items	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Uses								
Compensation of employees, payable	4,300,943	4,533,734	4,689,364	4,845,989	5,040,726	5,245,584	5,074,759	5,118,635
Wages and salaries	3,816,852	4,005,633	4,119,571	4,243,272	4,405,577	4,557,016	4,393,862	4,421,917
Employers' social contributions	484,091	528,101	569,793	602,717	635,149	688,568	680,897	696,718
Taxes on production and imports, payable	1,391,975	1,473,579	1,521,872	1,588,125	1,712,869	1,745,260	1,525,908	1,562,695
Taxes on products	1,303,157	1,388,433	1,422,778	1,489,791	1,607,673	1,640,638	1,464,749	1,501,560
Other taxes on production	88,818	85,146	99,094	98,334	105,196	104,622	61,159	61,135
(less) Subsidies, receivable	121,854	69,939	68,330	61,657	68,587	59,727	83,278	125,271
Subsidies on products	94,370	43,304	44,183	37,497	43,835	35,076	54,872	96,129
Other subsidies on production	27,484	26,635	24,147	24,160	24,752	24,651	28,406	29,142
Mixed income and operating surplus, gross	7,659,242	7,806,104	8,447,431	9,116,207	9,688,332	9,958,052	9,143,761	9,610,539
Consumption of fixed capital	2,214,196	2,344,834	2,488,386	2,628,663	2,775,404	2,912,542	2,974,143	3,040,145
Mixed income and operating surplus, net	5,445,046	5,461,270	5,959,045	6,487,544	6,912,928	7,045,510	6,169,618	6,570,394
Resources								
Value added, gross / Gross domestic product	13,230,306	13,743,478	14,590,337	15,488,664	16,373,340	16,889,169	15,661,150	16,166,598
Value added, net / Net domestic product	11,016,110	11,398,644	12,101,951	12,860,001	13,597,936	13,976,627	12,687,007	13,126,453

Account 3 Allocation of primary income account

(Million Baht)

Transactions and balancing items	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Uses								
Balance of primary incomes, gross								
/ National income, gross	12,549,609	13,034,505	13,904,972	14,794,813	15,582,085	16,268,255	15,317,534	15,590,257
Balance of primary incomes, net								
/ National income, net	10,335,413	10,689,671	11,416,586	12,166,150	12,806,681	13,355,713	12,343,391	12,550,112
Resources								
Mixed income and operating surplus, gross	7,659,242	7,806,104	8,447,431	9,116,207	9,688,332	9,958,052	9,143,761	9,610,539
Mixed income and operating surplus, net	5,445,046	5,461,270	5,959,045	6,487,544	6,912,928	7,045,510	6,169,618	6,570,394
Compensation of employees	4,323,540	4,554,169	4,711,391	4,855,252	5,044,149	5,170,262	5,004,341	5,059,533
Wages and salaries	3,839,449	4,026,068	4,141,598	4,252,535	4,409,000	4,481,694	4,323,444	4,362,815
Employers' social contributions	484,091	528,101	569,793	602,717	635,149	688,568	680,897	696,718
Taxes on production and imports	1,391,975	1,473,579	1,521,872	1,588,125	1,712,869	1,745,260	1,525,908	1,562,695
Taxes on products	1,303,157	1,388,433	1,422,778	1,489,791	1,607,673	1,640,638	1,464,749	1,501,560
Other taxes on production	88,818	85,146	99,094	98,334	105,196	104,622	61,159	61,135
(less) Subsidies	121,854	69,939	68,330	61,657	68,587	59,727	83,278	125,271
Subsidies on products	94,370	43,304	44,183	37,497	43,835	35,076	54,872	96,129
Other subsidies on production	27,484	26,635	24,147	24,160	24,752	24,651	28,406	29,142
Property income ^{1/}	-703,294	-729,408	-707,392	-703,114	-794,678	-545,592	-273,198	-517,239

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

Account 4 Secondary distribution of income account

(Million Baht)

Transactions and balancing items	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Uses								
Current transfers	2,821,763	3,014,519	3,074,078	3,208,526	3,384,501	3,636,169	3,835,522	4,094,542
Current taxes on income, wealth, etc.	915,579	944,041	945,045	940,953	1,053,244	1,082,561	947,094	974,647
Taxes on income	881,447	906,322	908,726	897,742	1,004,085	1,032,703	897,523	924,991
Other current taxes	34,132	37,719	36,319	43,211	49,159	49,858	49,571	49,656
Social contributions	610,254	658,254	705,812	744,059	783,252	844,432	815,211	822,469
Employers' actual social contributions	158,414	169,913	176,570	182,437	194,909	203,300	185,499	170,765
Employers' imputed social contributions	325,677	358,188	393,223	420,280	440,240	485,268	495,398	525,953
Households' actual social contributions ^{1/}	88,430	90,186	92,613	95,960	102,721	108,326	84,593	79,904
Households' social contributions supplements ^{2/}	37,733	39,967	43,406	45,382	45,382	47,538	49,721	45,847
Social benefits other than social transfers in kind	346,702	377,027	421,938	459,179	526,108	578,218	652,140	677,768
Social security benefits in cash	30,159	31,332	36,394	38,769	45,333	51,242	87,141	81,170
Other social insurance benefits	227,205	252,867	294,198	316,394	335,134	365,699	388,563	409,677
Social assistance benefits in cash	89,338	92,828	91,346	104,016	145,641	161,277	176,436	186,921
Other current transfers	949,228	1,035,197	1,001,283	1,064,335	1,021,897	1,130,958	1,421,077	1,619,658
Net non-life insurance premiums ^{3/}	444	200	184	251	279	296	306	364
Current transfer within general government	656,299	734,081	701,203	762,526	710,498	724,119	732,384	722,332
Current international cooperation	1,819	1,602	2,548	1,985	2,008	1,430	1,481	1,343
Miscellaneous current transfers	290,666	299,314	297,348	299,573	309,112	405,113	686,906	895,619
Disposable income, gross	12,833,163	13,263,594	14,145,548	15,050,268	15,840,846	16,491,755	15,506,895	15,828,334
Disposable income, net	10,618,967	10,918,760	11,657,162	12,421,605	13,065,442	13,579,213	12,532,752	12,788,189
Resources								
Balance of primary incomes, gross								
/ National income, gross	12,549,609	13,034,505	13,904,972	14,794,813	15,582,085	16,268,255	15,317,534	15,590,257
Balance of primary incomes, net								
/ National income, net	10,335,413	10,689,671	11,416,586	12,166,150	12,806,681	13,355,713	12,343,391	12,550,112
Current transfers	3,105,317	3,243,608	3,314,654	3,463,981	3,643,262	3,859,669	4,024,883	4,332,619
Current taxes on income, wealth, etc.	915,579	944,041	945,045	940,953	1,053,244	1,082,561	947,094	974,647
Taxes on income	881,447	906,322	908,726	897,742	1,004,085	1,032,703	897,523	924,991
Other current taxes	34,132	37,719	36,319	43,211	49,159	49,858	49,571	49,656
Social contributions	610,254	658,254	705,812	744,059	783,252	844,432	815,211	822,469
Employers' actual social contributions	158,414	169,913	176,570	182,437	194,909	203,300	185,499	170,765
Employers' imputed social contributions	325,677	358,188	393,223	420,280	440,240	485,268	495,398	525,953
Households' actual social contributions ^{1/}	88,430	90,186	92,613	95,960	102,721	108,326	84,593	79,904
Households' social contributions supplements ^{2/}	37,733	39,967	43,406	45,382	45,382	47,538	49,721	45,847
Social benefits other than social transfers in kind	346,702	377,027	421,938	459,179	526,108	578,218	652,140	677,768
Social security benefits in cash	30,159	31,332	36,394	38,769	45,333	51,242	87,141	81,170
Other social insurance benefits	227,205	252,867	294,198	316,394	335,134	365,699	388,563	409,677
Social assistance benefits in cash	89,338	92,828	91,346	104,016	145,641	161,277	176,436	186,921
Other current transfers	1,232,782	1,264,286	1,241,859	1,319,790	1,280,658	1,354,458	1,610,438	1,857,735
Non-life insurance claims ^{3/}	2	1	1	1	0	17	17	14
Current transfer within general government	656,299	734,081	701,203	762,526	710,498	724,119	732,384	722,332
Current international cooperation	3,497	2,190	3,009	2,572	3,180	2,673	3,255	4,448
Miscellaneous current transfers	572,984	528,014	537,646	554,691	566,980	627,649	874,782	1,130,941

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) school teacher welfare fund
- 5) The national health security fund
- 6) Bangkok Metropolitan Administration pension fund
- 7) 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

(Million Baht)

Transactions and balancing items	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Uses								
Final consumption expenditure	9,196,723	9,409,588	9,757,238	10,103,138	10,652,906	11,137,256	11,095,043	11,406,898
Individual consumption expenditure	8,055,550	8,205,430	8,507,840	8,833,595	9,308,851	9,751,272	9,705,945	10,004,421
Collective consumption expenditure ^{1/}	1,141,173	1,204,158	1,249,398	1,269,543	1,344,055	1,385,984	1,389,098	1,402,477
Adjustment for the change in pension entitlements	131,124	134,843	135,130	144,459	149,191	153,770	118,049	103,726
Saving, gross	3,636,440	3,854,006	4,388,310	4,947,130	5,187,940	5,354,499	4,411,852	4,421,436
Saving, net	1,422,244	1,509,172	1,899,924	2,318,467	2,412,536	2,441,957	1,437,709	1,381,291
Resources								
Disposable income, gross ^{1/}	12,833,163	13,263,594	14,145,548	15,050,268	15,840,846	16,491,755	15,506,895	15,828,334
Disposable income, net	10,618,967	10,918,760	11,657,162	12,421,605	13,065,442	13,579,213	12,532,752	12,788,189
Adjustment for the change in pension entitlements	131,124	134,843	135,130	144,459	149,191	153,770	118,049	103,726

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

(Million Baht)

Transactions and balancing items	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Uses								
Social transfers in kind	1,096,910	1,148,884	1,211,288	1,254,859	1,304,166	1,344,888	1,398,007	1,549,248
Social transfers in kind - non-market production	852,780	905,607	951,068	984,792	1,036,005	1,065,756	1,114,947	1,158,971
Social transfers in kind - purchased market production	244,130	243,277	260,220	270,067	268,161	279,132	283,060	390,277
Adjusted disposable income, gross	12,833,163	13,263,594	14,145,548	15,050,268	15,840,846	16,491,755	15,506,895	15,828,334
Adjusted disposable income, net	10,618,967	10,918,760	11,657,162	12,421,605	13,065,442	13,579,213	12,532,752	12,788,189
Resources								
Disposable income, gross	12,833,163	13,263,594	14,145,548	15,050,268	15,840,846	16,491,755	15,506,895	15,828,334
Disposable income, net	10,618,967	10,918,760	11,657,162	12,421,605	13,065,442	13,579,213	12,532,752	12,788,189
Social transfers in kind	1,096,910	1,148,884	1,211,288	1,254,859	1,304,166	1,344,888	1,398,007	1,549,248
Social transfers in kind - non-market production	852,780	905,607	951,068	984,792	1,036,005	1,065,756	1,114,947	1,158,971
Social transfers in kind - purchased market production	244,130	243,277	260,220	270,067	268,161	279,132	283,060	390,277

Account 7 Use of adjusted disposable income account

(Million Baht)

Transactions and balancing items	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Uses								
Actual final consumption	9,196,723	9,409,588	9,757,238	10,103,138	10,652,906	11,137,256	11,095,043	11,406,898
Actual individual consumption	8,055,550	8,205,430	8,507,840	8,833,595	9,308,851	9,751,272	9,705,945	10,004,421
Actual collective consumption	1,141,173	1,204,158	1,249,398	1,269,543	1,344,055	1,385,984	1,389,098	1,402,477
Adjustment for the change in pension entitlements	131,124	134,843	135,130	144,459	149,191	153,770	118,049	103,726
Saving, gross	3,636,440	3,854,006	4,388,310	4,947,130	5,187,940	5,354,499	4,411,852	4,421,436
Saving, net	1,422,244	1,509,172	1,899,924	2,318,467	2,412,536	2,441,957	1,437,709	1,381,291
Resources								
Adjusted disposable income, gross	12,833,163	13,263,594	14,145,548	15,050,268	15,840,846	16,491,755	15,506,895	15,828,334
Adjusted disposable income, net	10,618,967	10,918,760	11,657,162	12,421,605	13,065,442	13,579,213	12,532,752	12,788,189
Adjustment for the change in pension entitlements	131,124	134,843	135,130	144,459	149,191	153,770	118,049	103,726

Account 8 External income account

(Million Baht)

Transactions and balancing items	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Income of non-residents								
Import of goods and services	8,270,441	7,861,679	7,806,464	8,397,737	9,169,690	8,473,402	7,251,862	9,474,506
<i>Import of goods</i>	6,801,008	6,407,028	6,270,835	6,815,779	7,394,423	6,707,886	5,818,030	7,388,835
<i>Import of services</i>	1,469,433	1,454,651	1,535,629	1,581,958	1,775,267	1,765,516	1,433,832	2,085,671
Primary income receivable by non-residents	919,664	875,532	913,155	982,533	1,073,374	965,696	728,048	1,047,432
<i>Compensation of employees</i>	39,391	49,203	56,705	60,680	64,887	111,756	102,659	95,471
<i>Property income</i>	880,273	826,329	856,450	921,853	1,008,487	853,940	625,389	951,961
Secondary income receivable by non-residents	118,386	129,363	133,111	123,024	122,168	192,501	158,660	163,635
Other current transfer	118,386	129,363	133,111	123,024	122,168	192,501	158,660	163,635
<i>Public</i>	1,819	1,602	2,548	1,985	2,008	1,430	1,481	1,343
<i>Private</i>	116,567	127,761	130,563	121,039	120,160	191,071	157,179	162,292
Use of income by non-residents								
Export of goods and services	9,048,752	9,295,635	9,785,869	10,326,731	10,616,163	10,052,248	8,064,693	9,479,767
<i>Export of goods</i>	7,360,423	7,308,359	7,533,353	7,920,724	8,114,859	7,534,817	7,099,300	8,665,055
<i>Export of services</i>	1,688,329	1,987,276	2,252,516	2,406,007	2,501,304	2,517,431	965,393	814,712
Primary income payable by non-residents	238,967	166,559	227,790	288,682	282,119	344,782	384,432	471,091
<i>Compensation of employees</i>	61,988	69,638	78,732	69,943	68,310	36,434	32,241	36,369
<i>Property income</i>	176,979	96,921	149,058	218,739	213,809	308,348	352,191	434,722
Secondary income payable by non-residents	401,940	358,452	373,687	378,479	380,929	416,001	348,021	401,712
Other current transfer	401,940	358,452	373,687	378,479	380,929	416,001	348,021	401,712
<i>Public</i>	3,497	2,190	3,009	2,572	3,180	2,673	3,255	4,448
<i>Private</i>	398,443	356,262	370,678	375,907	377,749	413,328	344,766	397,264
Balance on external income account	-381,168	-954,072	-1,534,616	-1,490,598	-913,979	-1,181,432	-658,576	333,003

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

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

	(Million Baht)							
	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Private final consumption expenditure	6,958,639	7,056,546	7,296,552	7,578,735	8,004,686	8,406,384	8,307,938	8,455,173
General government final consumption expenditure	2,238,084	2,353,042	2,460,686	2,524,403	2,648,220	2,730,872	2,787,105	2,951,725
Gross fixed capital formation	3,262,778	3,371,069	3,459,901	3,579,177	3,730,869	3,812,385	3,635,366	3,805,475
Change in inventories	-98,217	-298,624	-380,535	-26,962	398,424	209,730	82,360	822,607
Plus : Exports of goods and services	9,048,752	9,295,635	9,785,869	10,326,731	10,616,163	10,052,248	8,064,693	9,479,767
<i>Exports of goods (f.o.b)</i>	7,360,423	7,308,359	7,533,353	7,920,724	8,114,859	7,534,817	7,099,300	8,665,055
<i>Exports of services</i>	1,688,329	1,987,276	2,252,516	2,406,007	2,501,304	2,517,431	965,393	814,712
Less : Imports of goods and services	8,270,441	7,861,679	7,806,464	8,397,737	9,169,690	8,473,402	7,251,862	9,474,506
<i>Imports of goods (f.o.b)</i>	6,801,008	6,407,028	6,270,835	6,815,779	7,394,423	6,707,886	5,818,030	7,388,835
<i>Imports of services</i>	1,469,433	1,454,651	1,535,629	1,581,958	1,775,267	1,765,516	1,433,832	2,085,671
Expenditure on gross domestic product	13,139,595	13,915,989	14,816,009	15,584,347	16,228,672	16,738,217	15,625,600	16,040,241
Plus : Statistical discrepancy	90,711	-172,511	-225,672	-95,683	144,668	150,952	35,550	126,357
Gross domestic product, (GDP)	13,230,306	13,743,478	14,590,337	15,488,664	16,373,340	16,889,169	15,661,150	16,166,598

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

	(Million Baht)							
	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Private final consumption expenditure	4,785,280	4,909,901	5,051,349	5,207,330	5,445,519	5,661,479	5,617,251	5,650,587
General government final consumption expenditure	1,457,177	1,493,837	1,526,168	1,530,150	1,571,045	1,595,583	1,617,485	1,676,996
Gross fixed capital formation	2,252,515	2,350,865	2,418,543	2,463,150	2,560,080	2,610,781	2,485,517	2,562,798
Change in inventories	-63,572	-111,915	-340,739	-68,590	258,420	117,390	125,731	283,306
Plus : Exports of goods and services	7,086,421	7,175,013	7,368,456	7,750,204	8,009,917	7,773,334	6,243,447	6,936,141
<i>Exports of goods (f.o.b)</i>	5,750,028	5,615,083	5,628,100	5,931,455	6,154,112	5,925,896	5,583,531	6,438,514
<i>Exports of services</i>	1,339,154	1,565,896	1,750,022	1,828,446	1,865,472	1,856,054	718,366	575,250
Less : Imports of goods and services	6,477,504	6,477,757	6,413,517	6,812,902	7,376,621	6,995,499	6,022,364	7,091,474
<i>Imports of goods (f.o.b)</i>	5,322,667	5,334,768	5,212,824	5,600,454	6,042,682	5,694,638	5,093,801	6,020,308
<i>Imports of services</i>	1,157,418	1,145,494	1,199,428	1,214,911	1,335,223	1,299,221	952,633	1,104,871
Expenditure on gross domestic product (sum up)	9,040,497	9,343,405	9,621,191	10,076,576	10,476,743	10,773,324	10,101,447	10,062,272
Residual (GDE (sum up) - GDE CVM)	-78,951	-66,221	-104,417	-36,592	-53,755	-3,886	-18,693	-206,222
% Residual (GDE sum up) to GDE CVM	-0.9	-0.7	-1.1	-0.4	-0.5	0.0	-0.2	-2.0
Expenditure on gross domestic product	9,119,448	9,409,626	9,725,608	10,113,168	10,530,498	10,777,210	10,120,140	10,268,494
Gross domestic product, (GDP)	9,232,089	9,521,426	9,848,502	10,259,941	10,693,204	10,919,319	10,256,852	10,409,894

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)**

	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Private final consumption expenditure	149.0	152.9	157.3	162.2	169.6	176.3	174.9	176.0
General government final consumption expenditure	191.7	196.6	200.8	201.3	206.7	209.9	212.8	220.7
Gross fixed capital formation	178.2	186.0	191.3	194.8	202.5	206.5	196.6	202.7
Change in inventories								
Plus : Exports of goods and services	202.5	205.1	210.6	221.5	228.9	222.2	178.4	198.2
<i>Exports of goods (f.o.b)</i>	202.6	197.9	198.3	209.0	216.9	208.8	196.8	226.9
<i>Exports of services</i>	202.5	236.8	264.6	276.5	282.1	280.7	108.6	87.0
Less : Imports of goods and services	206.7	206.7	204.6	217.4	235.4	223.2	192.1	226.3
<i>Imports of goods (f.o.b)</i>	217.7	218.2	213.2	229.1	247.2	232.9	208.4	246.3
<i>Imports of services</i>	167.8	166.1	173.9	176.2	193.6	188.4	138.1	160.2
Expenditure on gross domestic product	161.5	166.6	172.2	179.1	186.4	190.8	179.2	181.8
Gross domestic product, (GDP)	160.0	165.0	170.7	177.8	185.3	189.3	177.8	180.4

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

	Percent							
	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Private final consumption expenditure	0.5	2.6	2.9	3.1	4.6	4.0	-0.8	0.6
General government final consumption expenditure	2.8	2.5	2.2	0.3	2.7	1.6	1.4	3.7
Gross fixed capital formation	-2.2	4.4	2.9	1.8	3.9	2.0	-4.8	3.1
Change in inventories								
Plus : Exports of goods and services	0.3	1.3	2.7	5.2	3.4	-3.0	-19.7	11.1
<i>Exports of goods (f.o.b)</i>	0.8	-2.3	0.2	5.4	3.8	-3.7	-5.8	15.3
<i>Exports of services</i>	-1.4	16.9	11.8	4.5	2.0	-0.5	-61.3	-19.9
Less : Imports of goods and services	-5.3	0.0	-1.0	6.2	8.3	-5.2	-13.9	17.8
<i>Imports of goods (f.o.b)</i>	-6.3	0.2	-2.3	7.4	7.9	-5.8	-10.6	18.2
<i>Imports of services</i>	-0.5	-1.0	4.7	1.3	9.9	-2.7	-26.7	16.0
Expenditure on gross domestic product	1.1	3.2	3.4	4.0	4.1	2.3	-6.1	1.5
Gross domestic product, (GDP)	1.0	3.1	3.4	4.2	4.2	2.1	-6.1	1.5

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

	Percent							
	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Private final consumption expenditure	0.3	1.4	1.5	1.5	2.2	1.9	-0.4	0.3
General government final consumption expenditure	0.5	0.4	0.4	0.0	0.4	0.3	0.2	0.7
Gross fixed capital formation	-0.6	1.1	0.7	0.4	0.9	0.5	-1.1	0.7
Change in inventories	-2.8	-0.6	-1.5	1.9	2.8	-1.3	-0.1	2.3
Plus : Exports of goods and services	0.2	0.9	1.8	3.5	2.2	-1.9	-11.7	5.7
<i>Exports of goods (f.o.b)</i>	0.4	-1.3	0.1	2.8	1.9	-1.8	-2.6	6.9
<i>Exports of services</i>	-0.2	2.2	1.7	0.7	0.3	-0.1	-9.1	-1.2
Less : Imports of goods and services	-3.5	0.0	-0.6	3.3	4.5	-2.9	-7.0	8.2
<i>Imports of goods (f.o.b)</i>	-3.4	0.1	-1.1	3.2	3.5	-2.6	-4.2	6.8
<i>Imports of services</i>	-0.1	-0.1	0.5	0.1	1.0	-0.3	-2.8	1.5
Expenditure on gross domestic product	1.0	3.2	3.4	4.0	4.2	2.3	-6.0	1.5
Gross domestic product, (GDP)	1.0	3.1	3.4	4.2	4.2	2.1	-6.1	1.5

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

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

(Million Baht)

	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Agriculture	1,334,795	1,219,420	1,236,981	1,302,041	1,342,911	1,372,848	1,362,954	1,407,848
Agriculture, forestry and fishing	1,334,795	1,219,420	1,236,981	1,302,041	1,342,911	1,372,848	1,362,954	1,407,848
Non-agriculture	11,895,511	12,524,058	13,353,356	14,186,623	15,030,429	15,516,321	14,298,196	14,758,750
<i>Industrial</i>	<i>4,526,819</i>	<i>4,592,338</i>	<i>4,791,853</i>	<i>5,029,209</i>	<i>5,278,347</i>	<i>5,254,658</i>	<i>4,791,399</i>	<i>5,218,502</i>
Mining and quarrying	495,627	431,425	399,753	386,153	416,991	411,820	324,118	351,863
Manufacturing	3,648,058	3,762,150	3,960,437	4,184,233	4,373,783	4,327,276	4,002,001	4,393,661
Electricity, gas, steam and air conditioning supply	331,412	343,430	373,038	396,457	422,034	446,482	397,088	400,242
Water supply; sewerage, waste management and remediation activities	51,722	55,333	58,625	62,366	65,539	69,080	68,192	72,736
<i>Services</i>	<i>7,368,692</i>	<i>7,931,720</i>	<i>8,561,503</i>	<i>9,157,414</i>	<i>9,752,082</i>	<i>10,261,663</i>	<i>9,506,797</i>	<i>9,540,248</i>
Construction	337,043	379,940	400,376	394,729	410,157	419,075	421,988	437,761
Wholesale and retail trade; repair of motor vehicles and motorcycles	1,816,182	1,966,439	2,187,129	2,379,660	2,580,986	2,744,078	2,650,613	2,636,628
Transportation and storage	720,581	779,135	864,556	920,641	955,066	983,945	748,649	736,612
Accommodation and food service activities	497,777	600,218	696,810	817,326	922,803	1,031,231	605,291	515,444
Information and communication	301,427	327,394	337,483	361,815	388,297	431,414	435,517	459,095
Financial and insurance activities	961,263	1,037,966	1,120,954	1,181,246	1,240,877	1,267,132	1,289,695	1,345,451
Real estate activities	324,590	332,488	354,175	377,355	400,066	417,700	428,153	436,529
Professional, scientific and technical activities	267,745	261,390	254,947	274,638	284,835	290,689	275,380	274,289
Administrative and support service activities	231,496	237,026	240,493	251,605	263,242	270,719	211,943	201,759
Public administration and defence; compulsory social security	802,790	843,417	881,905	917,355	957,152	992,291	1,026,482	1,052,598
Education	565,146	594,280	612,300	629,952	651,304	674,770	690,920	704,725
Human health and social work activities	270,681	288,404	307,429	328,165	351,182	370,891	388,228	410,197
Arts, entertainment and recreation	65,640	70,145	81,153	91,070	102,411	116,694	102,294	107,750
Other service activities	181,557	185,669	193,690	204,434	216,334	222,968	202,789	192,846
Activities of households as employers	24,774	27,809	28,103	27,423	27,370	28,066	28,855	28,564
Gross Domestic Product, (GDP)	13,230,306	13,743,478	14,590,337	15,488,664	16,373,340	16,889,169	15,661,150	16,166,598
Plus : Net primary income from the rest of the world	-680,697	-708,973	-685,365	-693,851	-791,255	-620,914	-343,616	-576,341
Gross National Income, (GNI) ^{1/}	12,549,609	13,034,505	13,904,972	14,794,813	15,582,085	16,268,255	15,317,534	15,590,257
Less : Consumption of fixed capital	2,214,196	2,344,834	2,488,386	2,628,663	2,775,404	2,912,542	2,974,143	3,040,145
Net National Income, (NNI)	10,335,413	10,689,671	11,416,586	12,166,150	12,806,681	13,355,713	12,343,391	12,550,112
Per capita GDP (Baht)	195,807	202,152	213,553	225,126	236,927	243,658	225,311	231,985
Per capita GNI (Baht)	185,733	191,723	203,521	215,041	225,478	234,700	220,368	223,715
Population (1,000 Heads)	67,568	67,986	68,322	68,800	69,107	69,315	69,509	69,688

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

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

(Million Baht)

	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Agriculture	1,350,216	1,231,908	1,249,157	1,307,451	1,342,837	1,377,395	1,373,252	1,423,897
Agriculture, forestry and fishing	1,350,216	1,231,908	1,249,157	1,307,451	1,342,837	1,377,395	1,373,252	1,423,897
Non-agriculture	10,609,969	11,107,930	11,887,638	12,654,745	13,386,221	13,826,241	12,845,268	13,305,277
<i>Industrial</i>	<i>3,929,076</i>	<i>3,886,163</i>	<i>4,069,772</i>	<i>4,294,179</i>	<i>4,476,975</i>	<i>4,425,788</i>	<i>4,040,445</i>	<i>4,503,885</i>
Mining and quarrying	413,451	364,614	339,761	327,469	352,793	345,040	264,741	293,295
Manufacturing	3,171,404	3,156,421	3,329,918	3,540,236	3,672,904	3,601,317	3,342,299	3,767,240
Electricity, gas, steam and air conditioning supply	294,216	311,475	343,285	366,288	388,165	412,784	367,095	372,463
Water supply; sewerage, waste management and remediation activities	50,005	53,653	56,808	60,186	63,113	66,647	66,310	70,887
<i>Services</i>	<i>6,680,893</i>	<i>7,221,767</i>	<i>7,817,866</i>	<i>8,360,566</i>	<i>8,909,246</i>	<i>9,400,453</i>	<i>8,804,823</i>	<i>8,801,392</i>
Construction	304,563	346,034	364,174	357,251	370,836	377,454	383,627	399,846
Wholesale and retail trade; repair of motor vehicles and motorcycles	1,429,304	1,572,302	1,766,249	1,936,216	2,117,515	2,272,431	2,265,460	2,233,965
Transportation and storage	710,558	769,473	851,658	904,046	939,462	967,873	736,952	719,938
Accommodation and food service activities	484,520	585,837	680,951	798,458	902,473	1,010,717	594,993	507,112
Information and communication	285,132	307,382	323,425	345,691	367,710	408,987	419,975	440,252
Financial and insurance activities	916,512	984,873	1,067,757	1,127,188	1,185,024	1,207,136	1,233,256	1,288,795
Real estate activities	239,352	254,946	277,512	288,657	304,059	323,923	358,859	363,714
Professional, scientific and technical activities	233,252	224,870	219,995	238,257	247,614	253,336	238,690	239,834
Administrative and support service activities	177,327	178,761	186,266	197,606	207,982	216,466	163,345	150,794
Public administration and defence; compulsory social security	802,790	843,417	881,905	917,355	957,152	992,291	1,026,482	1,052,598
Education	592,437	620,754	636,274	653,939	675,781	699,110	719,044	733,568
Human health and social work activities	269,170	286,849	305,716	326,304	349,013	368,639	387,273	409,145
Arts, entertainment and recreation	48,812	52,891	55,260	59,808	65,815	77,138	65,825	62,612
Other service activities	162,390	165,569	172,621	182,367	191,440	196,886	182,187	170,655
Activities of households as employers	24,774	27,809	28,103	27,423	27,370	28,066	28,855	28,564
Gross domestic product, (GDP)	11,960,185	12,339,838	13,136,795	13,962,196	14,729,058	15,203,636	14,218,520	14,729,174

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

	(Million Baht)							
	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Agriculture	658,463	615,884	608,753	638,106	677,010	670,375	648,003	662,592
Agriculture, forestry and fishing	658,463	615,884	608,753	638,106	677,010	670,375	648,003	662,592
Non-agriculture	8,610,047	8,972,643	9,320,993	9,704,832	10,097,962	10,339,413	9,687,157	9,824,687
<i>Industrial</i>	<i>3,174,354</i>	<i>3,235,835</i>	<i>3,308,253</i>	<i>3,378,509</i>	<i>3,476,652</i>	<i>3,472,213</i>	<i>3,271,540</i>	<i>3,391,036</i>
Mining and quarrying	238,871	244,576	246,599	231,893	225,099	228,914	208,041	197,102
Manufacturing	2,630,605	2,670,312	2,730,588	2,809,907	2,907,210	2,882,594	2,728,771	2,856,889
Electricity, gas, steam and air conditioning supply	265,070	277,958	286,156	291,273	297,762	311,536	286,688	287,417
Water supply; sewerage, waste management and remediation activities	39,830	43,419	46,681	49,776	52,716	55,682	55,996	58,580
<i>Services</i>	<i>5,448,770</i>	<i>5,754,370</i>	<i>6,032,560</i>	<i>6,348,319</i>	<i>6,645,434</i>	<i>6,894,937</i>	<i>6,441,294</i>	<i>6,460,254</i>
Construction	229,389	268,506	289,919	281,274	287,681	292,174	295,962	302,607
Wholesale and retail trade; repair of motor vehicles and motorcycles	1,270,224	1,340,744	1,423,314	1,514,519	1,610,858	1,682,047	1,628,948	1,655,978
Transportation and storage	584,038	607,677	639,932	691,372	718,049	737,410	569,933	553,832
Accommodation and food service activities	431,370	496,112	542,053	600,672	648,597	697,935	440,342	374,231
Information and communication	425,195	468,111	479,365	497,972	541,729	603,743	613,749	647,323
Financial and insurance activities	602,103	652,506	698,410	744,929	772,489	786,463	827,948	873,255
Real estate activities	339,124	344,220	368,471	393,071	414,466	430,113	436,713	444,015
Professional, scientific and technical activities	202,429	199,458	194,998	207,217	212,968	216,952	206,318	199,872
Administrative and support service activities	163,710	169,527	172,062	177,330	183,491	187,600	147,230	135,754
Public administration and defence; compulsory social security	502,006	507,469	509,645	513,565	521,430	528,249	536,527	537,543
Education	323,739	324,311	323,600	324,971	328,186	333,378	336,670	337,606
Human health and social work activities	202,005	208,554	214,831	223,611	234,365	243,165	250,940	259,717
Arts, entertainment and recreation	61,046	66,670	80,861	90,652	101,747	116,455	101,457	106,447
Other service activities	135,403	139,542	144,950	151,937	158,319	162,608	149,775	140,666
Activities of households as employers	16,946.0	17,580.0	17,564.0	17,072.0	16,633.0	16,535.0	16,988.0	16,974.0
Gross domestic product (sum up)	9,321,566	9,663,136	10,018,752	10,451,119	10,910,805	11,183,928	10,486,999	10,648,400
Residual (GDP (sum up) - GDP CVM)	89,477	141,710	170,250	191,178	217,601	264,609	230,147	238,506
% Residual (GDP sum up) to GDP CVM	1.0	1.5	1.7	1.9	2.0	2.4	2.2	2.3
Gross domestic product, (CVM)¹⁾	9,232,089	9,521,426	9,848,502	10,259,941	10,693,204	10,919,319	10,256,852	10,409,894
Gross National Income (GNI), CVM²⁾	8,776,274	9,040,508	9,384,589	9,791,579	10,163,879	10,500,600	10,010,995	9,991,451

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)

	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Agriculture	131.3	122.8	121.4	127.2	135.0	133.7	129.2	132.1
Agriculture, forestry and fishing	131.3	122.8	121.4	127.2	135.0	133.7	129.2	132.1
Non-agriculture	163.4	170.3	176.9	184.2	191.7	196.3	183.9	186.5
<i>Industrial</i>	<i>161.8</i>	<i>164.9</i>	<i>168.6</i>	<i>172.2</i>	<i>177.2</i>	<i>177.0</i>	<i>166.8</i>	<i>172.8</i>
Mining and quarrying	174.3	178.5	180.0	169.2	164.3	167.1	151.8	143.8
Manufacturing	159.9	162.3	166.0	170.8	176.7	175.2	165.9	173.7
Electricity, gas, steam and air conditioning supply	173.5	181.9	187.3	190.7	194.9	203.9	187.7	188.1
Water supply; sewerage, waste management and remediation activities	147.9	161.2	173.3	184.8	195.7	206.7	207.9	217.5
<i>Services</i>	<i>164.8</i>	<i>174.1</i>	<i>182.5</i>	<i>192.0</i>	<i>201.0</i>	<i>208.5</i>	<i>194.8</i>	<i>195.4</i>
Construction	137.6	161.1	173.9	168.7	172.6	175.3	177.5	181.5
Wholesale and retail trade; repair of motor vehicles and motorcycles	140.3	148.1	157.2	167.2	177.9	185.7	179.9	182.9
Transportation and storage	156.6	162.9	171.5	185.3	192.5	197.7	152.8	148.5
Accommodation and food service activities	198.9	228.8	250.0	277.0	299.1	321.9	203.1	172.6
Information and communication	300.1	330.3	338.3	351.4	382.3	426.1	433.1	456.8
Financial and insurance activities	217.7	235.9	252.5	269.3	279.3	284.3	299.3	315.7
Real estate activities	147.4	149.6	160.2	170.9	180.2	187.0	189.8	193.0
Professional, scientific and technical activities	206.6	203.6	199.0	211.5	217.4	221.4	210.6	204.0
Administrative and support service activities	169.8	175.9	178.5	184.0	190.3	194.6	152.7	140.8
Public administration and defence; compulsory social security	147.4	149.0	149.6	150.8	153.1	155.1	157.5	157.8
Education	150.8	151.0	150.7	151.4	152.9	155.3	156.8	157.2
Human health and social work activities	169.6	175.1	180.3	187.7	196.7	204.1	210.6	218.0
Arts, entertainment and recreation	256.1	279.6	339.2	380.2	426.8	488.5	425.6	446.5
Other service activities	158.7	163.5	169.9	178.0	185.5	190.5	175.5	164.8
Activities of households as employers	96.2	99.8	99.8	97.0	94.5	93.9	96.5	96.4
Gross domestic product, (GDP)	160.0	165.0	170.7	177.8	185.3	189.3	177.8	180.4
Gross National Income (GNI), CVM	157.7	162.4	168.6	175.9	182.6	188.6	179.8	179.5

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

	Percent							
	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Agriculture	-0.3	-6.5	-1.2	4.8	6.1	-1.0	-3.3	2.3
Agriculture, forestry and fishing	-0.3	-6.5	-1.2	4.8	6.1	-1.0	-3.3	2.3
Non-agriculture	1.1	4.2	3.9	4.1	4.1	2.4	-6.3	1.4
<i>Industrial</i>	0.1	1.9	2.2	2.1	2.9	-0.1	-5.8	3.7
Mining and quarrying	-1.6	2.4	0.8	-6.0	-2.9	1.7	-9.1	-5.3
Manufacturing	0.0	1.5	2.3	2.9	3.5	-0.8	-5.3	4.7
Electricity, gas, steam and air conditioning supply	3.1	4.9	2.9	1.8	2.2	4.6	-8.0	0.3
Water supply; sewerage, waste management and remediation activities	2.8	9.0	7.5	6.6	5.9	5.6	0.6	4.6
<i>Services</i>	1.8	5.6	4.8	5.2	4.7	3.8	-6.6	0.3
Construction	-2.4	17.1	8.0	-3.0	2.3	1.6	1.3	2.2
Wholesale and retail trade; repair of motor vehicles and motorcycles	-0.8	5.6	6.2	6.4	6.4	4.4	-3.2	1.7
Transportation and storage	3.1	4.0	5.3	8.0	3.9	2.7	-22.7	-2.8
Accommodation and food service activities	2.5	15.0	9.3	10.8	8.0	7.6	-36.9	-15.0
Information and communication	5.3	10.1	2.4	3.9	8.8	11.4	1.7	5.5
Financial and insurance activities	7.5	8.4	7.0	6.7	3.7	1.8	5.3	5.5
Real estate activities	2.2	1.5	7.0	6.7	5.4	3.8	1.5	1.7
Professional, scientific and technical activities	-1.1	-1.5	-2.2	6.3	2.8	1.9	-4.9	-3.1
Administrative and support service activities	-2.8	3.6	1.5	3.1	3.5	2.2	-21.5	-7.8
Public administration and defence; compulsory social security	1.3	1.1	0.4	0.8	1.5	1.3	1.6	0.2
Education	2.2	0.2	-0.2	0.4	1.0	1.6	1.0	0.3
Human health and social work activities	5.4	3.2	3.0	4.1	4.8	3.8	3.2	3.5
Arts, entertainment and recreation	0.3	9.2	21.3	12.1	12.2	14.5	-12.9	4.9
Other service activities	2.2	3.1	3.9	4.8	4.2	2.7	-7.9	-6.1
Activities of households as employers	-4.4	3.7	-0.1	-2.8	-2.6	-0.6	2.7	-0.1
Gross domestic product, (GDP)	1.0	3.1	3.4	4.2	4.2	2.1	-6.1	1.5
Gross National Income (GNI), CVM	2.4	3.0	3.8	4.3	3.8	3.3	-4.7	-0.2

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

	Percent							
	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Agriculture	0.0	-0.7	-0.1	0.4	0.5	-0.1	-0.3	0.2
Agriculture, forestry and fishing	0.0	-0.7	-0.1	0.4	0.5	-0.1	-0.3	0.2
Non-agriculture	1.0	3.8	3.5	3.8	3.7	2.2	-5.8	1.3
<i>Industrial</i>	0.0	0.7	0.7	0.7	0.9	0.0	-1.8	1.1
Mining and quarrying	-0.1	0.1	0.0	-0.2	-0.1	0.0	-0.2	-0.1
Manufacturing	0.0	0.4	0.6	0.8	0.9	-0.2	-1.4	1.2
Electricity, gas, steam and air conditioning supply	0.1	0.1	0.1	0.0	0.1	0.1	-0.2	0.0
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>	1.0	3.1	2.8	3.1	2.8	2.2	-4.0	0.2
Construction	-0.1	0.4	0.2	-0.1	0.1	0.0	0.0	0.1
Wholesale and retail trade; repair of motor vehicles and motorcycles	-0.1	0.8	0.9	1.0	1.0	0.7	-0.5	0.3
Transportation and storage	0.2	0.2	0.3	0.5	0.2	0.2	-1.3	-0.1
Accommodation and food service activities	0.1	0.6	0.4	0.5	0.4	0.4	-2.3	-0.6
Information and communication	0.1	0.2	0.1	0.1	0.2	0.3	0.0	0.2
Financial and insurance activities	0.5	0.6	0.5	0.5	0.3	0.1	0.4	0.5
Real estate activities	0.1	0.0	0.2	0.2	0.1	0.1	0.0	0.0
Professional, scientific and technical activities	0.0	0.0	0.0	0.1	0.0	0.0	-0.1	-0.1
Administrative and support service activities	-0.1	0.1	0.0	0.1	0.1	0.0	-0.3	-0.1
Public administration and defence; compulsory social security	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.0
Education	0.1	0.0	0.0	0.0	0.0	0.1	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	0.0	0.0	0.1	0.1	0.1	0.1	-0.1	0.0
Other service activities	0.0	0.0	0.1	0.1	0.1	0.0	-0.1	-0.1
Activities of households as employers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gross domestic product, (GDP)	1.0	3.1	3.4	4.2	4.2	2.1	-6.1	1.5

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

	(Million Baht)							
	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Crop and animal production, hunting and related service activities	1,213,571	1,104,801	1,114,435	1,179,168	1,214,255	1,242,584	1,228,862	1,267,185
Forestry and logging	11,269	11,593	12,626	11,897	12,279	12,058	12,277	13,279
Fishing and aquaculture	109,955	103,026	109,920	110,976	116,377	118,206	121,815	127,384
Total value added	1,334,795	1,219,420	1,236,981	1,302,041	1,342,911	1,372,848	1,362,954	1,407,848

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

	(Million Baht)							
	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Crop and animal production, hunting and related service activities	508,470	477,126	470,305	497,229	528,655	523,427	503,878	517,608
Forestry and logging	7,961	8,101	8,741	8,059	8,234	7,973	8,222	8,653
Fishing and aquaculture	113,953	101,822	102,575	99,617	103,751	103,072	103,265	100,343
Total value added	658,463	615,884	608,753	638,106	677,010	670,375	648,003	662,592

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)**

	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Crop and animal production, hunting and related service activities	131.6	123.5	121.7	128.7	136.8	135.5	130.4	134.0
Forestry and logging	118.2	120.2	129.7	119.6	122.2	118.3	122.0	128.4
Fishing and aquaculture	105.1	93.9	94.6	91.9	95.7	95.1	95.2	92.6
Total value added	131.3	122.8	121.4	127.2	135.0	133.7	129.2	132.1

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

	Percent							
	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Crop and animal production, hunting and related service activities	0.6	-6.2	-1.4	5.7	6.3	-1.0	-3.7	2.7
Forestry and logging	7.9	1.8	7.9	-7.8	2.2	-3.2	3.1	5.2
Fishing and aquaculture	-13.3	-10.6	0.7	-2.9	4.2	-0.7	0.2	-2.8
Total value added	-0.3	-6.5	-1.2	4.8	6.1	-1.0	-3.3	2.3

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

(Million Baht)

	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Mining of coal and lignite	12,744	11,368	12,155	12,034	11,865	10,575	10,275	10,207
Extraction of crude petroleum and natural gas	428,433	357,965	309,723	302,890	336,604	330,239	246,837	274,202
Mining of metal ores	6,545	4,180	5,302	1,347	79	53	36	35
Other mining and quarrying	47,905	57,912	72,573	69,882	68,443	70,953	66,970	67,419
Total value added	495,627	431,425	399,753	386,153	416,991	411,820	324,118	351,863

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

(Million Baht)

	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Mining of coal and lignite	6,509	5,470	5,721	5,786	5,805	5,086	4,769	4,689
Extraction of crude petroleum and natural gas	193,575	198,766	199,318	188,646	182,984	186,718	168,101	157,925
Mining of metal ores	1,668	1,131	1,342	349	22	15	21	22
Other mining and quarrying	33,613	36,761	37,570	35,771	35,253	36,116	34,088	33,107
Total value added	238,871	244,576	246,599	231,893	225,099	228,914	208,041	197,102

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)**

	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Mining of coal and lignite	87.1	73.2	76.5	77.4	77.6	68.0	63.8	62.7
Extraction of crude petroleum and natural gas	187.6	192.6	193.2	182.8	177.3	181.0	162.9	153.1
Mining of metal ores	74.3	50.4	59.8	15.5	1.0	0.7	0.9	1.0
Other mining and quarrying	139.3	152.4	155.7	148.3	146.1	149.7	141.3	137.2
Total value added	174.3	178.5	180.0	169.2	164.3	167.1	151.8	143.8

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

	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Mining of coal and lignite	-0.6	-16.0	4.6	1.1	0.3	-12.4	-6.2	-1.7
Extraction of crude petroleum and natural gas	-1.8	2.7	0.3	-5.4	-3.0	2.0	-10.0	-6.1
Mining of metal ores	6.4	-32.2	18.7	-74.0	-93.7	-31.8	40.0	4.8
Other mining and quarrying	-1.3	9.4	2.2	-4.8	-1.4	2.4	-5.6	-2.9
Total value added	-1.6	2.4	0.8	-6.0	-2.9	1.7	-9.1	-5.3

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

	(Million Baht)							
	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Food products	526,674	532,958	601,977	604,140	627,095	609,703	617,737	674,989
Beverages	274,971	286,228	285,269	275,400	277,742	310,486	293,848	295,765
Tobacco products	58,198	56,424	51,333	42,766	35,674	33,199	32,526	31,365
Textiles	118,529	114,327	110,144	106,749	103,433	96,072	79,586	77,515
Wearing apparel	79,607	78,951	85,596	94,177	101,437	102,869	87,467	79,871
Leather and related products	43,441	41,036	42,606	45,321	47,692	48,819	40,512	43,510
Wood and products of wood and cork	42,553	43,295	46,817	47,218	46,199	47,410	49,944	54,340
Paper and paper products	52,178	52,402	53,440	55,370	58,410	57,450	57,273	60,979
Printing and reproduction of recorded media	11,552	11,478	11,554	11,748	11,720	11,058	10,307	10,423
Coke and refined petroleum products	269,519	310,945	395,980	440,648	498,049	491,302	373,541	458,720
Chemicals and chemical products	296,089	326,200	318,854	355,497	394,976	370,756	339,360	400,771
Basic pharmaceutical products and pharmaceutical preparations	33,838	35,568	38,528	41,181	45,971	49,877	54,878	57,851
Rubber and plastics products	245,173	264,573	281,080	326,847	301,555	286,816	268,572	291,772
Non-metallic mineral products	151,052	148,621	148,880	144,229	150,891	156,291	149,844	154,537
Basic metals	68,132	60,793	63,163	67,621	67,814	59,446	57,369	79,223
Fabricated metal products, except machinery and equipment	105,823	110,410	118,874	127,883	136,728	138,419	135,324	142,492
Computer, electronic and optical products	387,943	367,282	332,931	381,791	397,084	390,918	386,740	411,891
Electrical equipment	186,095	185,753	199,390	193,466	196,948	204,887	209,049	226,178
Machinery and equipment not elsewhere classified	149,263	160,332	162,307	176,644	185,179	183,358	182,003	191,756
Motor vehicles, trailers and semi-trailers	287,410	300,730	326,952	341,363	379,324	364,671	274,106	323,984
Other transport equipment	80,411	90,633	95,928	108,568	109,982	112,105	95,545	100,069
Furniture	31,788	33,203	32,783	35,272	35,401	34,906	34,744	42,885
Other manufacturing	146,173	148,192	153,770	158,476	162,278	164,154	169,546	180,816
Repair and installation of machinery and equipment	1,646	1,816	2,281	1,858	2,201	2,304	2,180	1,959
Total value added	3,648,058	3,762,150	3,960,437	4,184,233	4,373,783	4,327,276	4,002,001	4,393,661

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

	(Million Baht)							
	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Food products	335,690	333,035	338,054	340,421	366,610	354,590	338,397	351,302
Beverages	201,606	209,670	208,408	209,788	201,398	220,838	204,897	203,830
Tobacco products	34,690	33,707	30,631	25,467	21,251	19,721	19,321	18,259
Textiles	98,732	94,684	91,136	87,916	85,287	78,979	65,392	62,953
Wearing apparel	86,966	85,617	80,333	77,873	81,100	79,934	68,226	62,276
Leather and related products	40,113	37,821	39,368	41,116	43,184	45,504	37,782	40,366
Wood and products of wood and cork	32,403	32,634	35,247	37,788	36,374	37,132	38,662	40,280
Paper and paper products	45,463	45,579	46,314	46,837	48,468	48,412	49,936	51,898
Printing and reproduction of recorded media	8,306	7,894	7,588	7,712	7,916	7,758	7,172	7,224
Coke and refined petroleum products	117,393	126,783	127,933	134,169	139,825	133,345	130,316	128,146
Chemicals and chemical products	157,551	164,931	170,222	178,020	186,075	188,809	189,372	201,801
Basic pharmaceutical products and pharmaceutical preparations	32,124	33,746	36,536	39,003	43,535	47,093	51,769	55,025
Rubber and plastics products	145,817	154,656	158,628	171,973	165,114	157,574	146,452	151,635
Non-metallic mineral products	118,587	114,749	114,513	113,828	117,080	120,704	115,476	118,046
Basic metals	49,268	48,606	51,525	53,820	53,981	48,941	46,703	56,705
Fabricated metal products, except machinery and equipment	76,435	79,822	86,220	92,443	98,696	99,831	97,623	101,948
Computer, electronic and optical products	313,509	304,333	309,642	341,204	361,098	361,880	363,944	387,441
Electrical equipment	138,176	134,996	143,175	137,635	140,748	147,527	150,841	162,177
Machinery and equipment not elsewhere classified	134,931	140,451	141,831	154,327	162,187	161,290	160,581	168,921
Motor vehicles, trailers and semi-trailers	254,144	266,288	285,774	291,873	317,978	301,667	226,767	265,484
Other transport equipment	77,055	75,886	84,655	83,230	84,986	87,576	74,884	78,506
Furniture	24,174	25,045	24,685	26,483	26,512	26,147	26,042	32,086
Other manufacturing	79,448	81,309	81,684	81,233	83,721	83,588	81,516	86,865
Repair and installation of machinery and equipment	1,450	1,584	1,778	1,749	2,057	2,132	2,007	1,795
Total value added	2,630,605	2,670,312	2,730,588	2,809,907	2,907,210	2,882,594	2,728,771	2,856,889

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)

	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Food products	153.2	152.0	154.3	155.4	167.3	161.9	154.5	160.4
Beverages	178.0	185.2	184.0	185.3	177.9	195.0	180.9	180.0
Tobacco products	100.3	97.4	88.5	73.6	61.4	57.0	55.8	52.8
Textiles	83.8	80.4	77.4	74.6	72.4	67.0	55.5	53.4
Wearing apparel	85.2	83.9	78.7	76.3	79.5	78.3	66.9	61.0
Leather and related products	108.3	102.1	106.2	111.0	116.5	122.8	102.0	108.9
Wood and products of wood and cork	166.0	167.2	180.6	193.6	186.4	190.2	198.1	206.4
Paper and paper products	118.3	118.6	120.5	121.9	126.2	126.0	130.0	135.1
Printing and reproduction of recorded media	104.9	99.7	95.8	97.4	99.9	97.9	90.5	91.2
Coke and refined petroleum products	98.7	106.6	107.6	112.8	117.6	112.1	109.6	107.8
Chemicals and chemical products	184.0	192.6	198.8	207.9	217.3	220.5	221.2	235.7
Basic pharmaceutical products and pharmaceutical preparations	167.8	176.3	190.8	203.7	227.4	246.0	270.4	287.4
Rubber and plastics products	161.5	171.3	175.7	190.5	182.9	174.5	162.2	167.9
Non-metallic mineral products	147.5	142.8	142.5	141.6	145.7	150.2	143.7	146.9
Basic metals	111.3	109.8	116.4	121.6	122.0	110.6	105.5	128.2
Fabricated metal products, except machinery and equipment	125.9	131.5	142.0	152.3	162.6	164.4	160.8	167.9
Computer, electronic and optical products	256.8	249.3	253.7	279.5	295.8	296.4	298.1	317.4
Electrical equipment	214.5	209.6	222.3	213.7	218.5	229.0	234.2	251.8
Machinery and equipment not elsewhere classified	240.9	250.8	253.3	275.6	289.6	288.0	286.7	301.6
Motor vehicles, trailers and semi-trailers	295.8	310.0	332.7	339.8	370.1	351.2	264.0	309.0
Other transport equipment	190.7	187.8	209.5	205.9	210.3	216.7	185.3	194.2
Furniture	128.4	133.0	131.1	140.7	140.8	138.9	138.3	170.4
Other manufacturing	117.1	119.8	120.4	119.7	123.4	123.2	120.1	128.0
Repair and installation of machinery and equipment	196.2	214.3	240.6	236.7	278.3	288.5	271.6	242.9
Total value added	159.9	162.3	166.0	170.8	176.7	175.2	165.9	173.7

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

	Percent							
	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Food products	2.8	-0.8	1.5	0.7	7.7	-3.3	-4.6	3.8
Beverages	1.8	4.0	-0.6	0.7	-4.0	9.7	-7.2	-0.5
Tobacco products	-3.3	-2.8	-9.1	-16.9	-16.6	-7.2	-2.0	-5.5
Textiles	-0.8	-4.1	-3.7	-3.5	-3.0	-7.4	-17.2	-3.7
Wearing apparel	3.6	-1.6	-6.2	-3.1	4.1	-1.4	-14.6	-8.7
Leather and related products	8.2	-5.7	4.1	4.4	5.0	5.4	-17.0	6.8
Wood and products of wood and cork	9.6	0.7	8.0	7.2	-3.7	2.1	4.1	4.2
Paper and paper products	3.3	0.3	1.6	1.1	3.5	-0.1	3.1	3.9
Printing and reproduction of recorded media	-2.3	-5.0	-3.9	1.6	2.6	-2.0	-7.6	0.7
Coke and refined petroleum products	3.1	8.0	0.9	4.9	4.2	-4.6	-2.3	-1.7
Chemicals and chemical products	1.6	4.7	3.2	4.6	4.5	1.5	0.3	6.6
Basic pharmaceutical products and pharmaceutical preparations	5.9	5.0	8.3	6.8	11.6	8.2	9.9	6.3
Rubber and plastics products	1.7	6.1	2.6	8.4	-4.0	-4.6	-7.1	3.5
Non-metallic mineral products	-1.3	-3.2	-0.2	-0.6	2.9	3.1	-4.3	2.2
Basic metals	4.5	-1.3	6.0	4.5	0.3	-9.3	-4.6	21.4
Fabricated metal products, except machinery and equipment	5.2	4.4	8.0	7.2	6.8	1.1	-2.2	4.4
Computer, electronic and optical products	5.2	-2.9	1.7	10.2	5.8	0.2	0.6	6.5
Electrical equipment	1.8	-2.3	6.1	-3.9	2.3	4.8	2.2	7.5
Machinery and equipment not elsewhere classified	-2.0	4.1	1.0	8.8	5.1	-0.6	-0.4	5.2
Motor vehicles, trailers and semi-trailers	-18.1	4.8	7.3	2.1	8.9	-5.1	-24.8	17.1
Other transport equipment	-8.7	-1.5	11.6	-1.7	2.1	3.0	-14.5	4.8
Furniture	-1.9	3.6	-1.4	7.3	0.1	-1.4	-0.4	23.2
Other manufacturing	0.8	2.3	0.5	-0.6	3.1	-0.2	-2.5	6.6
Repair and installation of machinery and equipment	4.8	9.2	12.2	-1.6	17.6	3.6	-5.9	-10.6
Total value added	0.0	1.5	2.3	2.9	3.5	-0.8	-5.3	4.7

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

	(Million Baht)							
	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Electric power generation, transmission and distribution	305,348	320,690	342,598	355,233	379,630	422,913	387,310	387,556
Manufacture of gas; distribution of gaseous fuels through mains	26,064	22,740	30,440	41,224	42,404	23,569	9,778	12,686
Total value added	331,412	343,430	373,038	396,457	422,034	446,482	397,088	400,242

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

	(Million Baht)							
	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Electric power generation, transmission and distribution	247,987	258,484	264,165	267,519	274,669	288,480	265,701	266,823
Manufacture of gas; distribution of gaseous fuels through mains	14,351	16,107	18,291	19,684	19,364	19,564	17,725	16,590
Total value added	265,070	277,958	286,156	291,273	297,762	311,536	286,688	287,417

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)**

	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Electric power generation, transmission and distribution	169.5	176.7	180.6	182.9	187.8	197.2	181.6	182.4
Manufacture of gas; distribution of gaseous fuels through mains	221.5	248.6	282.3	303.8	298.9	302.0	273.6	256.1
Total value added	173.5	181.9	187.3	190.7	194.9	203.9	187.7	188.1

**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							
	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Electric power generation, transmission and distribution	3.0	4.2	2.2	1.3	2.7	5.0	-7.9	0.4
Manufacture of gas; distribution of gaseous fuels through mains	4.6	12.2	13.6	7.6	-1.6	1.0	-9.4	-6.4
Total value added	3.1	4.9	2.9	1.8	2.2	4.6	-8.0	0.3

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

	(Million Baht)							
	2014	2015	2016	2017	2018r	2019r	2020p	2021p
Water collection and supply	41,824	43,758	45,240	47,110	47,821	49,910	47,264	48,530
Waste collection, treatment and disposal activities; materials recovery	9,898	11,575	13,385	15,256	17,718	19,170	20,928	24,206
Total value added	51,722	55,333	58,625	62,366	65,539	69,080	68,192	72,736

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

	(Million Baht)							
	2014	2015	2016	2017	2018r	2019r	2020p	2021p
Water collection and supply	31,024	33,296	35,039	36,758	37,896	39,641	38,570	39,433
Waste collection, treatment and disposal activities; materials recovery	9,058	10,520	12,218	13,742	15,750	17,071	18,620	20,481
Total value added	39,830	43,419	46,681	49,776	52,716	55,682	55,996	58,580

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)**

	2014	2015	2016	2017	2018r	2019r	2020p	2021p
Water collection and supply	129.3	138.8	146.1	153.3	158.0	165.3	160.8	164.4
Waste collection, treatment and disposal activities; materials recovery	306.8	356.4	413.9	465.5	533.5	578.3	630.8	693.8
Total value added	147.9	161.2	173.3	184.8	195.7	206.7	207.9	217.5

**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							
	2014	2015	2016	2017	2018r	2019r	2020p	2021p
Water collection and supply	-0.5	7.3	5.2	4.9	3.1	4.6	-2.7	2.2
Waste collection, treatment and disposal activities; materials recovery	18.4	16.1	16.1	12.5	14.6	8.4	9.1	10.0
Total value added	2.8	9.0	7.5	6.6	5.9	5.6	0.6	4.6

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

(Million Baht)

	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Private construction	165,642	162,381	159,667	159,848	168,730	172,204	166,292	167,201
Public construction	171,401	217,559	240,709	234,881	241,427	246,871	255,696	270,560
Total value added	337,043	379,940	400,376	394,729	410,157	419,075	421,988	437,761

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

(Million Baht)

	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Private construction	114,525	115,490	116,279	114,607	119,032	120,551	117,089	116,062
Public construction	114,325	151,730	172,088	165,195	167,182	170,125	177,277	184,857
Total value added	229,389	268,506	289,919	281,274	287,681	292,174	295,962	302,607

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)**

	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Private construction	174.0	175.5	176.7	174.1	180.9	183.2	177.9	176.3
Public construction	113.3	150.4	170.5	163.7	165.7	168.6	175.7	183.2
Total value added	137.6	161.1	173.9	168.7	172.6	175.3	177.5	181.5

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

Percent

	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Private construction	-3.8	0.8	0.7	-1.4	3.9	1.3	-2.9	-0.9
Public construction	-1.1	32.7	13.4	-4.0	1.2	1.8	4.2	4.3
Total value added	-2.4	17.1	8.0	-3.0	2.3	1.6	1.3	2.2

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

	(Million Baht)							
	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Trade and repair of motor vehicles and motorcycles	154,973	157,198	170,733	186,515	207,316	216,855	200,278	218,168
Trade, except of motor vehicles and motorcycles	1,661,209	1,809,241	2,016,396	2,193,145	2,373,670	2,527,223	2,450,335	2,418,460
Total value added	1,816,182	1,966,439	2,187,129	2,379,660	2,580,986	2,744,078	2,650,613	2,636,628

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

	(Million Baht)							
	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Trade and repair of motor vehicles and motorcycles	158,580	161,986	167,968	176,957	197,451	205,950	188,866	202,350
Trade, except of motor vehicles and motorcycles	1,113,335	1,178,681	1,253,798	1,335,258	1,414,243	1,476,868	1,436,758	1,454,160
Total value added	1,270,224	1,340,744	1,423,314	1,514,519	1,610,858	1,682,047	1,628,948	1,655,978

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)**

	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Trade and repair of motor vehicles and motorcycles	183.6	187.5	194.5	204.9	228.6	238.4	218.6	234.3
Trade, except of motor vehicles and motorcycles	135.9	143.9	153.1	163.0	172.6	180.3	175.4	177.5
Total value added	140.3	148.1	157.2	167.2	177.9	185.7	179.9	182.9

**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							
	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Trade and repair of motor vehicles and motorcycles	-6.6	2.1	3.7	5.4	11.6	4.3	-8.3	7.1
Trade, except of motor vehicles and motorcycles	-0.2	5.9	6.4	6.5	5.9	4.4	-2.7	1.2
Total value added	-0.8	5.6	6.2	6.4	6.4	4.4	-3.2	1.7

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

	(Million Baht)							
	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Land transport and transport via pipelines	294,872	312,973	354,305	376,326	384,590	399,606	334,889	329,033
Water transport	135,351	147,693	151,448	154,991	160,123	163,791	149,855	141,854
Air transport	129,037	144,481	167,223	182,292	181,421	174,099	64,542	42,025
Warehousing and support activities for transportation	136,277	148,170	160,545	170,138	185,903	197,374	140,014	141,134
Postal and courier activities	25,044	25,818	31,035	36,894	43,029	49,075	59,349	82,566
Total value added	720,581	779,135	864,556	920,641	955,066	983,945	748,649	736,612

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

	(Million Baht)							
	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Land transport and transport via pipelines	203,521	196,135	200,460	214,880	218,757	222,983	184,891	180,280
Water transport	107,924	114,690	119,062	120,224	125,020	125,736	123,438	115,020
Air transport	156,646	175,322	200,281	237,820	238,529	238,288	85,278	51,207
Warehousing and support activities for transportation	96,787	108,208	111,538	115,776	126,499	134,491	100,285	100,578
Postal and courier activities	17,800	17,742	20,284	23,611	27,620	31,388	37,646	52,109
Total value added	584,038	607,677	639,932	691,355	718,049	737,410	569,933	553,832

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)**

	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Land transport and transport via pipelines	117.4	113.1	115.6	123.9	126.2	128.6	106.6	104.0
Water transport	220.8	234.6	243.5	245.9	255.7	257.2	252.5	235.3
Air transport	161.8	181.1	206.9	245.7	246.4	246.2	88.1	52.9
Warehousing and support activities for transportation	215.1	240.5	247.9	257.3	281.2	298.9	222.9	223.6
Postal and courier activities	197.9	197.2	225.5	262.5	307.1	348.9	418.5	579.3
Total value added	156.6	162.9	171.5	185.3	192.5	197.7	152.8	148.5

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

	Percent							
	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Land transport and transport via pipelines	3.7	-3.6	2.2	7.2	1.8	1.9	-17.1	-2.5
Water transport	6.5	6.3	3.8	1.0	4.0	0.6	-1.8	-6.8
Air transport	0.1	11.9	14.2	18.7	0.3	-0.1	-64.2	-40.0
Warehousing and support activities for transportation	0.7	11.8	3.1	3.8	9.3	6.3	-25.4	0.3
Postal and courier activities	7.1	-0.3	14.3	16.4	17.0	13.6	19.9	38.4
Total value added	3.1	4.0	5.3	8.0	3.9	2.7	-22.7	-2.8

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

	(Million Baht)							
	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Accommodation	207,497	265,728	311,783	368,051	417,365	455,149	165,381	89,733
Food and beverage service activities	290,280	334,490	385,027	449,275	505,438	576,082	439,910	425,711
Total value added	497,777	600,218	696,810	817,326	922,803	1,031,231	605,291	515,444

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

	(Million Baht)							
	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Accommodation	201,348	244,609	265,235	291,193	312,081	332,503	167,842	109,313
Food and beverage service activities	232,125	256,214	281,625	314,425	341,587	370,566	270,729	250,294
Total value added	431,370	496,112	542,053	600,672	648,597	697,935	440,342	374,231

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)**

	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Accommodation	252.9	307.2	333.1	365.7	391.9	417.6	210.8	137.3
Food and beverage service activities	169.2	186.7	205.2	229.1	248.9	270.1	197.3	182.4
Total value added	198.9	228.8	250.0	277.0	299.1	321.9	203.1	172.6

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

	Percent							
	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Accommodation	3.4	21.5	8.4	9.8	7.2	6.5	-49.5	-34.9
Food and beverage service activities	1.8	10.4	9.9	11.6	8.6	8.5	-26.9	-7.5
Total value added	2.5	15.0	9.3	10.8	8.0	7.6	-36.9	-15.0

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

	(Million Baht)							
	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Publishing activities	14,455	16,397	17,441	15,972	14,471	14,199	13,557	12,667
Motion picture, video and television programme production, sound recording and music publishing activities	7,645	8,630	8,751	8,770	9,024	9,261	7,620	6,535
Programming and broadcasting activities	27,594	27,844	27,223	27,571	27,750	28,214	27,706	28,246
Telecommunications	166,270	179,459	183,855	202,056	222,792	262,298	265,061	279,722
Computer programming, consultancy and related activities	82,788	92,047	96,750	103,565	109,601	112,091	115,456	124,951
Information service activities	2,675	3,017	3,463	3,881	4,659	5,351	6,117	6,974
Total value added	301,427	327,394	337,483	361,815	388,297	431,414	435,517	459,095

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

	(Million Baht)							
	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Publishing activities	12,862	14,503	15,401	14,222	13,105	12,887	12,301	11,439
Motion picture, video and television programme production, sound recording and music publishing activities	5,431	6,151	6,162	6,149	6,301	6,416	5,206	4,405
Programming and broadcasting activities	19,449	19,810	19,335	19,432	19,361	19,547	19,344	19,382
Telecommunications	342,511	376,620	381,929	398,348	452,172	537,235	546,859	583,030
Computer programming, consultancy and related activities	59,445	66,716	70,004	74,361	77,883	79,092	82,142	87,566
Information service activities	1,919	2,185	2,503	2,783	3,306	3,771	4,345	4,869
Total value added	425,195	468,111	479,365	497,972	541,729	603,743	613,749	647,323

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)**

	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Publishing activities	119.8	135.1	143.5	132.5	122.1	120.0	114.6	106.6
Motion picture, video and television programme production, sound recording and music publishing activities	116.8	132.3	132.5	132.2	135.5	138.0	112.0	94.7
Programming and broadcasting activities	131.1	133.5	130.3	131.0	130.5	131.8	130.4	130.7
Telecommunications	353.2	388.4	393.9	410.8	466.3	554.1	564.0	601.3
Computer programming, consultancy and related activities	431.5	484.3	508.2	539.8	565.4	574.2	596.3	635.7
Information service activities	255.9	291.3	333.7	371.1	440.8	502.8	579.3	649.2
Total value added	300.1	330.3	338.3	351.4	382.3	426.1	433.1	456.8

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

	Percent							
	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Publishing activities	-0.1	12.8	6.2	-7.7	-7.9	-1.7	-4.5	-7.0
Motion picture, video and television programme production, sound recording and music publishing activities	1.5	13.3	0.2	-0.2	2.5	1.8	-18.9	-15.4
Programming and broadcasting activities	-1.9	1.9	-2.4	0.5	-0.4	1.0	-1.0	0.2
Telecommunications	5.1	10.0	1.4	4.3	13.5	18.8	1.8	6.6
Computer programming, consultancy and related activities	9.6	12.2	4.9	6.2	4.7	1.6	3.9	6.6
Information service activities	14.9	13.9	14.6	11.2	18.8	14.1	15.2	12.1
Total value added	5.3	10.1	2.4	3.9	8.8	11.4	1.7	5.5

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

	(Million Baht)							
	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Financial service activities	766,535	825,929	872,096	916,368	953,970	977,826	1,009,860	1,045,604
Insurance, reinsurance and pension funding	154,538	171,988	204,467	216,709	234,198	238,101	230,050	237,288
Activities auxiliary to financial service and insurance activities	40,190	40,049	44,391	48,169	52,709	51,205	49,785	62,559
Total value added	961,263	1,037,966	1,120,954	1,181,246	1,240,877	1,267,132	1,289,695	1,345,451

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

	(Million Baht)							
	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Financial service activities	455,833	492,212	513,978	549,750	564,571	577,653	621,886	656,357
Insurance, reinsurance and pension funding	110,516	124,147	147,399	155,011	165,748	167,306	162,479	164,565
Activities auxiliary to financial service and insurance activities	28,734	28,901	31,993	34,446	37,296	35,972	35,154	43,377
Total value added	602,103	652,506	698,410	744,929	772,489	786,463	827,948	873,255

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)**

	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Financial service activities	219.3	236.8	247.3	264.5	271.6	277.9	299.2	315.8
Insurance, reinsurance and pension funding	210.6	236.6	280.9	295.4	315.9	318.8	309.6	313.6
Activities auxiliary to financial service and insurance activities	176.2	177.2	196.2	211.2	228.7	220.6	215.6	266.0
Total value added	217.7	235.9	252.5	269.3	279.3	284.3	299.3	315.7

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

	Percent							
	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Financial service activities	7.0	8.0	4.4	7.0	2.7	2.3	7.7	5.5
Insurance, reinsurance and pension funding	15.1	12.3	18.7	5.2	6.9	0.9	-2.9	1.3
Activities auxiliary to financial service and insurance activities	-7.7	0.6	10.7	7.7	8.3	-3.5	-2.3	23.4
Total value added	7.5	8.4	7.0	6.7	3.7	1.8	5.3	5.5

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

	(Million Baht)							
	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Real estate activities with own or leased property	288,137	296,728	316,689	339,204	358,931	377,313	392,672	404,230
Real estate activities on a fee or contract basis	36,453	35,760	37,486	38,151	41,135	40,387	35,481	32,299
Total value added	324,590	332,488	354,175	377,355	400,066	417,700	428,153	436,529

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

	(Million Baht)							
	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Real estate activities with own or leased property	311,926	317,662	340,437	364,679	383,979	401,184	413,335	424,749
Real estate activities on a fee or contract basis	26,360	26,056	27,623	28,429	30,362	29,638	25,957	23,263
Total value added	339,124	344,220	368,471	393,071	414,466	430,113	436,713	444,015

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)**

	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Real estate activities with own or leased property	144.3	146.9	157.5	168.7	177.6	185.6	191.2	196.5
Real estate activities on a fee or contract basis	190.4	188.3	199.6	205.4	219.4	214.1	187.5	168.1
Total value added	147.4	149.6	160.2	170.9	180.2	187.0	189.8	193.0

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

	Percent							
	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Real estate activities with own or leased property	3.6	1.8	7.2	7.1	5.3	4.5	3.0	2.8
Real estate activities on a fee or contract basis	-7.5	-1.2	6.0	2.9	6.8	-2.4	-12.4	-10.4
Total value added	2.2	1.5	7.0	6.7	5.4	3.8	1.5	1.7

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

	(Million Baht)							
	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Legal and accounting activities	12,464	13,476	14,539	15,499	16,022	16,417	15,568	15,025
Activities of head offices; management consultancy activities	185,916	178,109	173,651	188,049	197,146	202,015	185,075	180,609
Architectural and engineering activities; technical testing and analysis	16,647	17,120	17,095	17,927	18,361	18,248	17,149	15,754
Scientific research and development	25,370	24,198	23,569	26,151	26,780	27,219	30,314	35,547
Advertising and market research	13,398	13,496	13,040	14,046	14,108	14,224	14,485	14,490
Other professional, scientific and technical activities	13,444	14,371	12,321	12,039	11,307	11,236	11,382	11,227
Veterinary activities	506	620	732	927	1,111	1,330	1,407	1,637
Total value added	267,745	261,390	254,947	274,638	284,835	290,689	275,380	274,289

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

	(Million Baht)							
	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Legal and accounting activities	9,023	9,859	10,658	11,200	11,464	11,721	11,106	10,414
Activities of head offices; management consultancy activities	134,535	130,239	127,233	135,822	140,976	144,137	132,875	125,978
Architectural and engineering activities; technical testing and analysis	12,044	12,516	12,523	12,945	13,128	13,018	12,225	10,911
Scientific research and development	18,369	17,705	17,279	18,898	19,167	19,438	21,632	24,644
Advertising and market research	9,697	9,871	9,556	10,147	10,088	10,148	10,326	10,035
Other professional, scientific and technical activities	21,050	22,254	19,262	18,853	17,935	17,992	18,154	17,784
Veterinary activities	456	551	647	809	958	1,138	1,212	1,413
Total value added	202,429	199,458	194,998	207,217	212,968	216,952	206,318	199,872

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)**

	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Legal and accounting activities	131.6	143.8	155.5	163.4	167.2	171.0	162.0	151.9
Activities of head offices; management consultancy activities	181.5	175.7	171.7	183.3	190.2	194.5	179.3	170.0
Architectural and engineering activities; technical testing and analysis	199.8	207.6	207.7	214.7	217.8	216.0	202.8	181.0
Scientific research and development	4,458.5	4,297.3	4,193.9	4,586.9	4,652.2	4,718.0	5,250.5	5,981.6
Advertising and market research	159.2	162.1	156.9	166.6	165.6	166.6	169.5	164.8
Other professional, scientific and technical activities	487.6	515.5	446.2	436.7	415.5	416.8	420.5	412.0
Veterinary activities	302.0	364.9	428.5	535.8	634.4	753.6	802.6	935.8
Total value added	206.6	203.6	199.0	211.5	217.4	221.4	210.6	204.0

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

	Percent							
	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Legal and accounting activities	9.6	9.3	8.1	5.1	2.4	2.2	-5.2	-6.2
Activities of head offices; management consultancy activities	-1.2	-3.2	-2.3	6.8	3.8	2.2	-7.8	-5.2
Architectural and engineering activities; technical testing and analysis	-4.1	3.9	0.1	3.4	1.4	-0.8	-6.1	-10.7
Scientific research and development	-3.2	-3.6	-2.4	9.4	1.4	1.4	11.3	13.9
Advertising and market research	2.2	1.8	-3.2	6.2	-0.6	0.6	1.8	-2.8
Other professional, scientific and technical activities	-4.8	5.7	-13.4	-2.1	-4.9	0.3	0.9	-2.0
Veterinary activities	28.1	20.8	17.4	25.0	18.4	18.8	6.5	16.6
Total value added	-1.1	-1.5	-2.2	6.3	2.8	1.9	-4.9	-3.1

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

	(Million Baht)							
	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Rental and leasing activities	75,325	74,741	73,670	73,324	76,163	77,554	73,208	68,428
Employment activities	10,262	11,396	11,938	12,370	12,761	13,242	12,089	12,679
Travel agency, tour operator, reservation service and related activities	37,028	40,672	44,155	52,294	57,401	61,069	14,578	4,209
Security and investigation activities	12,689	13,931	14,824	15,346	16,410	16,805	15,751	15,920
Services to buildings and landscape activities	17,035	17,712	18,850	19,558	20,230	20,792	19,589	19,597
Office administrative, office support and other business support activities	79,157	78,574	77,056	78,713	80,277	81,257	76,728	80,926
Total value added	231,496	237,026	240,493	251,605	263,242	270,719	211,943	201,759

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

	(Million Baht)							
	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Rental and leasing activities	54,507	54,668	53,963	52,945	54,425	55,152	52,236	47,301
Employment activities	7,431	8,341	8,750	8,938	9,124	9,422	8,566	8,703
Travel agency, tour operator, reservation service and related activities	22,709	25,296	27,334	31,807	34,449	36,305	8,659	2,400
Security and investigation activities	9,183	10,190	10,860	11,082	11,727	11,951	11,155	10,923
Services to buildings and landscape activities	12,324	12,952	13,805	14,120	14,454	14,783	13,870	13,442
Office administrative, office support and other business support activities	57,313	57,505	56,476	56,870	57,395	57,813	54,933	56,129
Total value added	163,710	169,527	172,062	177,330	183,491	187,600	147,230	135,754

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)**

	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Rental and leasing activities	143.2	143.6	141.8	139.1	143.0	144.9	137.2	124.3
Employment activities	367.7	412.7	433.0	442.3	451.5	466.2	423.8	430.6
Travel agency, tour operator, reservation service and related activities	150.8	168.0	181.5	211.2	228.8	241.1	57.5	15.9
Security and investigation activities	303.9	337.2	359.4	366.7	388.1	395.5	369.1	361.4
Services to buildings and landscape activities	189.0	198.7	211.7	216.6	221.7	226.7	212.7	206.2
Office administrative, office support and other business support activities	180.8	181.4	178.1	179.4	181.0	182.3	173.3	177.0
Total value added	169.8	175.9	178.5	184.0	190.3	194.6	152.7	140.8

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

	Percent							
	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Rental and leasing activities	-8.4	0.3	-1.3	-1.9	2.8	1.3	-5.3	-9.4
Employment activities	0.9	12.2	4.9	2.1	2.1	3.3	-9.1	1.6
Travel agency, tour operator, reservation service and related activities	-2.3	11.4	8.1	16.4	8.3	5.4	-76.1	-72.3
Security and investigation activities	3.9	11.0	6.6	2.0	5.8	1.9	-6.7	-2.1
Services to buildings and landscape activities	0.9	5.1	6.6	2.3	2.4	2.3	-6.2	-3.1
Office administrative, office support and other business support activities	0.5	0.3	-1.8	0.7	0.9	0.7	-5.0	2.2
Total value added	-2.8	3.6	1.5	3.1	3.5	2.2	-21.5	-7.8

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

	(Million Baht)							
	2014	2015	2016	2017	2018p	2019p	2019p	2019p
Creative, arts and entertainment activities	2,020	2,205	2,117	2,138	2,183	2,218	2,069	1,975
Libraries, archives, museums and other cultural activities	324	387	415	430	412	376	277	188
Gambling and betting activities	38,713	38,570	48,192	57,255	66,911	79,687	71,145	82,504
Sport activities and amusement and recreation activities	24,583	28,983	30,429	31,247	32,905	34,413	28,803	23,083
Total value added	65,640	70,145	81,153	91,070	102,411	116,694	102,294	107,750

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

	(Million Baht)							
	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Creative, arts and entertainment activities	1,932	2,106	2,021	2,040	2,080	2,098	1,955	1,869
Libraries, archives, museums and other cultural activities	399	467	498	520	519	472	341	240
Gambling and betting activities	27,266	28,561	38,507	45,432	52,549	62,753	55,717	64,404
Sport activities and amusement and recreation activities	37,706	43,799	46,162	47,862	51,156	54,035	44,867	35,698
Total value added	61,046	66,670	80,861	90,652	101,747	116,455	101,457	106,447

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)**

	2014	2015	2016	2017	2018p	2019p	2019p	2019p
Creative, arts and entertainment activities	309.6	337.5	323.9	326.9	333.3	336.2	313.3	299.5
Libraries, archives, museums and other cultural activities	117.4	137.4	146.5	152.9	152.6	138.8	100.3	70.6
Gambling and betting activities	216.9	227.2	306.3	361.3	418.0	499.1	443.1	512.2
Sport activities and amusement and recreation activities	365.9	425.1	448.0	464.5	496.5	524.4	435.4	346.4
Total value added	256.1	279.6	339.2	380.2	426.8	488.5	425.6	446.5

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

	Percent							
	2014	2015	2016	2017	2018p	2019p	2019p	2019p
Creative, arts and entertainment activities	-5.4	9.0	-4.0	0.9	2.0	0.9	-6.8	-4.4
Libraries, archives, museums and other cultural activities	22.8	17.0	6.6	4.4	-0.2	-9.1	-27.8	-29.6
Gambling and betting activities	-2.2	4.7	34.8	18.0	15.7	19.4	-11.2	15.6
Sport activities and amusement and recreation activities	4.7	16.2	5.4	3.7	6.9	5.6	-17.0	-20.4
Total value added	0.3	9.2	21.3	12.1	12.2	14.5	-12.9	4.9

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

	(Million Baht)							
	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Activities of membership organizations	28,086	28,759	29,155	30,280	31,797	31,984	30,476	28,277
Repair of computers and personal and household goods	82,241	83,900	88,027	94,195	99,540	103,771	100,454	101,309
Other personal service activities	71,230	73,010	76,508	79,959	84,997	87,213	71,859	63,260
Total value added	181,557	185,669	193,690	204,434	216,334	222,968	202,789	192,846

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

	(Million Baht)							
	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Activities of membership organizations	19,735	20,395	20,634	21,288	22,116	22,091	21,185	19,330
Repair of computers and personal and household goods	61,927	64,176	67,661	72,047	74,672	77,946	77,078	77,039
Other personal service activities	53,278	54,492	56,211	58,199	61,084	62,186	51,399	44,523
Total value added	135,403	139,542	144,950	151,937	158,319	162,608	149,775	140,666

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)**

	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Activities of membership organizations	230.6	238.3	241.1	248.8	258.5	258.2	247.6	225.9
Repair of computers and personal and household goods	231.3	239.7	252.7	269.1	278.9	291.1	287.9	287.7
Other personal service activities	106.5	109.0	112.4	116.4	122.1	124.4	102.8	89.0
Total value added	158.7	163.5	169.9	178.0	185.5	190.5	175.5	164.8

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

	Percent							
	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Activities of membership organizations	1.0	3.3	1.2	3.2	3.9	-0.1	-4.1	-8.8
Repair of computers and personal and household goods	2.4	3.6	5.4	6.5	3.6	4.4	-1.1	-0.1
Other personal service activities	2.6	2.3	3.2	3.5	5.0	1.8	-17.3	-13.4
Total value added	2.2	3.1	3.9	4.8	4.2	2.7	-7.9	-6.1

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

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

	(Million Baht)							
	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Individual consumption expenditure of households	7,643,857	7,959,989	8,310,891	8,811,308	9,237,853	9,676,340	8,384,808	8,321,382
Food and non-alcoholic	1,917,188	1,961,940	2,038,672	2,061,402	2,091,895	2,210,373	2,291,399	2,356,753
Food	1,669,734	1,710,676	1,784,477	1,804,992	1,825,223	1,933,921	2,016,982	2,080,433
Bread and cereals	376,621	380,171	387,110	386,122	394,248	419,529	444,552	446,898
Meat	212,389	215,353	221,986	222,618	218,083	230,891	245,115	252,675
Fish	195,350	199,793	208,266	215,204	215,800	222,767	231,665	233,400
Milk, cheese and eggs	144,778	140,695	147,765	151,743	156,611	157,910	165,018	172,620
Oil and fat	91,302	89,637	83,462	85,254	82,732	82,142	88,148	99,873
Fruit	158,888	163,158	171,016	178,307	187,984	199,970	203,664	210,914
Vegetables	380,903	408,782	449,152	446,836	446,885	489,669	503,616	525,108
Sugar, jam, honey, chocolate and confectionery	52,807	53,958	53,915	54,987	55,660	57,957	58,951	59,360
Food products n.e.c.	56,696	59,129	61,805	63,921	67,220	73,086	76,253	79,585
Non-alcoholic beverages	247,454	251,264	254,195	256,410	266,672	276,452	274,417	276,320
Alcoholic beverages, tobacco and narcotic	264,832	270,515	281,891	287,214	289,185	291,797	278,123	275,265
Alcoholic beverages	178,588	184,085	181,524	180,667	176,742	181,263	169,946	167,775
Tobacco	86,244	86,430	100,367	106,547	112,443	110,534	108,177	107,490
Clothing and footwear	333,965	348,188	363,489	371,511	382,354	392,746	318,973	291,122
Clothing	303,211	315,305	329,545	336,975	347,092	356,725	289,059	264,935
Footwear	30,754	32,883	33,944	34,536	35,262	36,021	29,914	26,187
Housing, water, electricity, gas and other fuels	687,411	718,604	737,130	766,719	799,986	839,689	857,802	885,338
Housing and water	465,375	490,782	512,892	542,686	566,643	586,248	600,007	616,663
Electricity, gas and other fuels	222,036	227,822	224,238	224,033	233,343	253,441	257,795	268,675
Furnishings, households equipment and routine maintenance of the house	318,740	332,920	334,813	342,918	359,610	369,194	353,630	355,775
Furniture and furnishings, carpets and other floor covering	25,469	26,686	26,572	27,117	28,798	29,101	27,918	27,757
Households equipment and routine maintenance of the house	293,271	306,234	308,241	315,801	330,812	340,093	325,712	328,018
Health	343,909	358,763	378,323	393,782	414,681	435,494	463,344	505,318
Transport	1,129,091	1,065,411	1,069,580	1,191,956	1,298,115	1,315,799	1,045,950	1,060,175
Purchase of vehicles	331,077	302,467	307,901	369,883	420,017	422,130	340,213	327,826
Operation of personal transport equipment	456,596	408,970	407,185	452,859	494,306	496,593	432,922	492,153
Transport services	341,418	353,974	354,494	369,214	383,792	397,076	272,815	240,196
Communication	156,451	162,153	165,564	175,327	184,058	190,148	192,143	194,776
Recreation and culture	386,418	393,524	454,055	486,072	513,344	528,054	419,183	407,023
Audio-visual, photographic and information processing equipment	87,343	73,874	73,517	78,869	78,702	83,729	86,056	79,669
Other recreation and entertainment	239,975	262,387	325,478	354,117	381,775	392,436	282,790	279,115
Newspaper, books and stationery	59,100	57,263	55,060	53,086	52,867	51,889	50,337	48,239
Education	95,462	101,379	105,648	110,988	117,825	123,425	121,942	122,428
Restaurants and hotels	1,120,131	1,278,216	1,355,958	1,538,632	1,634,145	1,770,920	898,596	713,977
Miscellaneous goods and services	890,259	968,376	1,025,768	1,084,787	1,152,655	1,208,701	1,143,723	1,153,432
Personal care	153,215	169,966	176,784	189,010	194,441	208,141	209,506	218,822
Personal effects n.e.c.	182,164	214,836	238,174	258,206	280,564	302,373	261,741	254,430
Financial services	441,116	465,953	489,460	505,023	537,738	553,109	548,315	562,165
Other services n.e.c.	113,764	117,621	121,350	132,548	139,912	145,078	124,161	118,015
Individual consumption expenditure of non-profit institutions serving households (NPISHs)	144,252	144,725	145,949	149,527	152,836	158,180	149,529	144,021
Health, education, and social protection	77,503	77,342	77,148	82,240	84,225	86,678	84,655	82,608
Other services n.e.c.	66,749	67,383	68,801	67,287	68,611	71,502	64,874	61,413
Private final consumption expenditure in the domestic market	7,788,109	8,104,714	8,456,840	8,960,835	9,390,689	9,834,520	8,534,337	8,465,403
Plus : Expenditure of residents abroad	215,003	239,935	290,023	321,458	353,053	344,332	117,886	93,286
Less : Expenditure of non-residents in the country	1,044,473	1,288,103	1,450,311	1,703,558	1,739,056	1,772,468	344,285	103,516
Private final consumption expenditure	6,958,639	7,056,546	7,296,552	7,578,735	8,004,686	8,406,384	8,307,938	8,455,173

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

	(Million Baht)							
	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Individual consumption expenditure of households	5,306,412	5,574,451	5,790,310	6,096,216	6,333,230	6,566,936	5,718,303	5,618,475
Food and non-alcoholic	902,910	922,877	942,830	964,750	986,121	1,010,750	1,033,131	1,063,799
Food	715,023	732,320	750,117	769,318	785,357	803,665	826,458	852,940
Bread and cereals	177,905	179,856	183,788	185,854	186,585	188,851	194,675	205,332
Meat	112,225	116,748	119,880	123,366	123,639	124,188	126,224	128,470
Fish	97,869	98,943	100,143	101,296	101,412	102,553	105,734	106,408
Milk, cheese and eggs	89,645	90,029	92,279	95,922	99,089	98,873	103,490	107,814
Oil and fat	46,570	47,019	44,770	46,172	48,876	50,708	51,468	53,126
Fruit	43,964	44,704	45,035	47,157	50,851	53,164	54,879	56,746
Vegetables	92,796	97,560	103,191	106,571	108,582	112,485	115,496	119,120
Sugar, jam, honey, chocolate and confectionery	32,050	32,059	31,656	32,152	31,656	32,395	33,108	33,265
Food products n.e.c.	42,138	43,484	44,739	45,039	47,732	51,767	53,026	54,213
Non-alcoholic beverages	207,912	209,597	210,302	211,724	218,356	226,292	221,461	224,195
Alcoholic beverages, tobacco and narcotic	204,218	207,397	200,544	199,363	195,513	199,590	191,186	187,854
Alcoholic beverages	145,087	147,805	142,333	141,439	137,817	142,618	133,596	130,965
Tobacco	57,704	58,224	56,794	56,500	56,012	55,949	55,534	54,764
Clothing and footwear	284,688	288,308	295,285	301,711	305,382	310,754	252,370	229,416
Clothing	253,849	255,767	262,045	267,815	270,849	275,517	223,271	203,739
Footwear	32,586	34,659	35,382	36,064	36,798	37,573	31,166	27,286
Housing, water, electricity, gas and other fuels	595,425	623,768	650,268	677,521	699,039	727,794	751,869	771,334
Housing and water	449,072	467,279	486,145	512,492	532,224	548,854	562,383	577,706
Electricity, gas and other fuels	143,354	152,299	159,461	161,663	164,157	174,854	184,048	188,231
Furnishings, households equipment and routine maintenance of the house	292,501	301,948	303,081	312,445	328,434	338,755	329,851	332,963
Furniture and furnishings, carpets and other floor covering	25,748	26,629	26,326	27,388	29,403	30,057	29,108	28,823
Households equipment and routine maintenance of the house	266,047	274,595	275,988	284,290	298,291	307,906	299,951	303,276
Health	313,074	323,326	338,618	349,200	367,556	386,272	410,461	444,460
Transport	713,461	735,203	767,245	830,591	879,600	890,052	735,502	690,273
Purchase of vehicles	293,513	266,130	270,020	323,504	366,267	368,051	297,396	287,500
Operation of personal transport equipment	195,025	214,534	229,941	235,893	240,197	243,194	232,994	223,505
Transport services	237,871	251,541	260,525	272,858	282,595	287,899	196,099	170,677
Communication	217,781	231,361	236,490	250,854	263,006	271,903	274,760	279,342
Recreation and culture	365,174	372,687	433,406	462,654	484,765	497,524	396,354	384,769
Audio-visual, photographic and information processing equipment	98,379	82,794	81,825	87,695	88,089	94,299	97,039	89,424
Other recreation and entertainment	210,888	232,316	291,970	315,183	336,115	343,709	249,034	245,852
Newspaper, books and stationery	52,888	50,565	48,448	48,000	47,420	46,825	45,277	43,581
Education	90,239	94,088	95,519	98,168	103,197	107,705	106,335	108,004
Restaurants and hotels	814,304	915,296	964,207	1,066,212	1,111,948	1,196,611	621,349	504,648
Miscellaneous goods and services	610,497	669,442	692,665	731,140	772,656	803,372	755,593	752,795
Personal care	124,399	136,415	140,568	149,703	152,578	162,845	163,341	170,121
Personal effects n.e.c.	106,483	131,051	135,051	146,752	162,427	171,611	137,865	128,011
Financial services	292,373	307,492	319,608	329,098	345,061	353,228	357,737	366,796
Other services n.e.c.	79,977	84,419	86,931	94,324	98,516	101,435	87,369	81,663
Individual consumption expenditure of non-profit institutions serving households (NPISHs)	102,512	101,973	103,575	105,410	106,570	109,521	104,197	98,689
Health, education, and social protection	55,077	54,784	55,040	58,283	59,040	60,332	59,302	56,906
Other services n.e.c.	47,438	47,193	48,531	47,149	47,553	49,207	44,933	41,828
Private final consumption expenditure in the domestic market	5,408,649	5,676,266	5,893,735	6,201,534	6,439,758	6,676,426	5,822,300	5,717,045
Plus : Expenditure of residents abroad	160,884	181,197	218,528	240,633	261,521	253,229	87,252	67,994
Less : Expenditure of non-residents in the country	808,294	987,273	1,107,337	1,294,919	1,314,275	1,326,724	265,203	88,337
Private final consumption expenditure	4,785,280	4,909,901	5,051,349	5,207,330	5,445,519	5,661,479	5,617,251	5,650,587

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)

	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Individual consumption expenditure of households	158.4	166.4	172.8	181.9	189.0	196.0	170.7	167.7
Food and non-alcoholic	124.7	127.5	130.2	133.3	136.2	139.6	142.7	146.9
Food	116.1	118.9	121.8	124.9	127.5	130.5	134.2	138.5
Bread and cereals	119.7	121.0	123.6	125.0	125.5	127.0	131.0	138.1
Meat	129.5	134.8	138.4	142.4	142.7	143.4	145.7	148.3
Fish	124.1	125.5	127.0	128.5	128.6	130.0	134.1	134.9
Milk, cheese and eggs	125.8	126.3	129.5	134.6	139.0	138.7	145.2	151.3
Oil and fat	223.0	225.2	214.4	221.1	234.1	242.8	246.5	254.4
Fruit	80.7	82.1	82.7	86.6	93.3	97.6	100.7	104.2
Vegetables	105.9	111.3	117.8	121.6	123.9	128.4	131.8	135.9
Sugar, jam, honey, chocolate and confectionery	123.7	123.8	122.2	124.1	122.2	125.1	127.8	128.4
Food products n.e.c.	101.3	104.5	107.6	108.3	114.8	124.5	127.5	130.3
Non-alcoholic beverages	192.4	194.0	194.6	196.0	202.1	209.4	205.0	207.5
Alcoholic beverages, tobacco and narcotic	118.8	120.6	116.6	115.9	113.7	116.1	111.2	109.2
Alcoholic beverages	125.7	128.1	123.3	122.6	119.4	123.6	115.8	113.5
Tobacco	102.0	102.9	100.4	99.9	99.0	98.9	98.2	96.8
Clothing and footwear	119.8	121.3	124.3	127.0	128.5	130.8	106.2	96.5
Clothing	114.9	115.8	118.6	121.2	122.6	124.7	101.1	92.2
Footwear	195.0	207.4	211.7	215.8	220.1	224.8	186.5	163.2
Housing, water, electricity, gas and other fuels	156.7	164.1	171.1	178.3	184.0	191.5	197.9	203.0
Housing and water	151.8	158.0	164.4	173.3	179.9	185.6	190.1	195.3
Electricity, gas and other fuels	170.2	180.8	189.3	191.9	194.9	207.6	218.5	223.4
Furnishings, households equipment and routine maintenance of the house	188.4	194.5	195.2	201.2	211.5	218.2	212.4	214.5
Furniture and furnishings, carpets and other floor covering	95.8	99.1	98.0	101.9	109.4	111.9	108.3	107.3
Households equipment and routine maintenance of the house	207.2	213.9	215.0	221.4	232.3	239.8	233.6	236.2
Health	198.7	205.2	214.9	221.6	233.3	245.2	260.5	282.1
Transport	156.6	161.4	168.4	182.3	193.1	195.4	161.4	151.5
Purchase of vehicles	224.5	203.6	206.5	247.4	280.2	281.5	227.5	219.9
Operation of personal transport equipment	123.0	135.4	145.1	148.8	151.5	153.4	147.0	141.0
Transport services	143.0	151.2	156.6	164.0	169.9	173.1	117.9	102.6
Communication	240.1	255.0	260.7	276.5	289.9	299.7	302.9	307.9
Recreation and culture	204.2	208.4	242.3	258.6	271.0	278.1	221.6	215.1
Audio-visual, photographic and information processing equipment	154.6	130.1	128.6	137.8	138.5	148.2	152.5	140.6
Other recreation and entertainment	249.8	275.2	345.9	373.4	398.2	407.1	295.0	291.2
Newspaper, books and stationery	171.5	164.0	157.1	155.7	153.8	151.9	146.8	141.3
Education	158.6	165.4	167.9	172.5	181.4	189.3	186.9	189.8
Restaurants and hotels	189.7	213.3	224.7	248.4	259.1	278.8	144.8	117.6
Miscellaneous goods and services	195.1	213.9	221.3	233.6	246.9	256.7	241.5	240.6
Personal care	192.5	211.1	217.6	231.7	236.2	252.0	252.8	263.3
Personal effects n.e.c.	211.3	260.0	267.9	291.2	322.3	340.5	273.5	254.0
Financial services	223.4	235.0	244.2	251.5	263.7	269.9	273.4	280.3
Other services n.e.c.	119.3	125.9	129.6	140.7	146.9	151.3	130.3	121.8
Individual consumption expenditure of non-profit institutions serving households (NPISHs)	178.8	177.9	180.7	183.9	185.9	191.1	181.8	172.2
Health, education, and social protection	127.7	127.0	127.6	135.1	136.8	139.8	137.4	131.9
Other services n.e.c.	334.7	333.0	342.4	332.7	335.5	347.2	317.0	295.1
Private final consumption expenditure in the domestic market	158.7	166.6	172.9	182.0	189.0	195.9	170.8	167.8
Plus : Expenditure of residents abroad	141.5	159.4	192.2	211.7	230.1	222.8	76.8	59.8
Less : Expenditure of non-residents in the country	260.4	318.1	356.8	417.3	423.5	427.5	85.5	28.5
Private final consumption expenditure	149.0	152.9	157.3	162.2	169.6	176.3	174.9	176.0

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

	2014	2015	2016	2017	2018r	2019r	2020r	Percent 2021p
Individual consumption expenditure of households	0.0	5.1	3.9	5.3	3.9	3.7	-12.9	-1.7
Food and non-alcoholic	0.9	2.2	2.2	2.3	2.2	2.5	2.2	3.0
Food	0.8	2.4	2.4	2.6	2.1	2.3	2.8	3.2
Bread and cereals	3.5	1.1	2.2	1.1	0.4	1.2	3.1	5.5
Meat	1.3	4.0	2.7	2.9	0.2	0.4	1.6	1.8
Fish	-9.6	1.1	1.2	1.2	0.1	1.1	3.1	0.6
Milk, cheese and eggs	0.7	0.4	2.5	3.9	3.3	-0.2	4.7	4.2
Oil and fat	6.4	1.0	-4.8	3.1	5.9	3.7	1.5	3.2
Fruit	2.2	1.7	0.7	4.7	7.8	4.5	3.2	3.4
Vegetables	1.7	5.1	5.8	3.3	1.9	3.6	2.7	3.1
Sugar, jam, honey, chocolate and confectionery	-1.5	0.0	-1.3	1.6	-1.5	2.3	2.2	0.5
Food products n.e.c.	1.6	3.2	2.9	0.7	6.0	8.5	2.4	2.2
Non-alcoholic beverages	1.6	0.8	0.3	0.7	3.1	3.6	-2.1	1.2
Alcoholic beverages, tobacco and narcotic	-2.1	1.6	-3.3	-0.6	-1.9	2.1	-4.2	-1.7
Alcoholic beverages	-4.4	1.9	-3.7	-0.6	-2.6	3.5	-6.3	-2.0
Tobacco	2.8	0.9	-2.5	-0.5	-0.9	-0.1	-0.7	-1.4
Clothing and footwear	-2.1	1.3	2.4	2.2	1.2	1.8	-18.8	-9.1
Clothing	-2.8	0.8	2.5	2.2	1.1	1.7	-19.0	-8.7
Footwear	4.7	6.4	2.1	1.9	2.0	2.1	-17.1	-12.4
Housing, water, electricity, gas and other fuels	3.6	4.8	4.2	4.2	3.2	4.1	3.3	2.6
Housing and water	4.4	4.1	4.0	5.4	3.9	3.1	2.5	2.7
Electricity, gas and other fuels	2.1	6.2	4.7	1.4	1.5	6.5	5.3	2.3
Furnishings, households equipment and routine maintenance of the house	1.9	3.2	0.4	3.1	5.1	3.1	-2.6	0.9
Furniture and furnishings, carpets and other floor covering	-1.4	3.4	-1.1	4.0	7.4	2.2	-3.2	-1.0
Households equipment and routine maintenance of the house	2.2	3.2	0.5	3.0	4.9	3.2	-2.6	1.1
Health	2.9	3.3	4.7	3.1	5.3	5.1	6.3	8.3
Transport	-11.3	3.0	4.4	8.3	5.9	1.2	-17.4	-6.1
Purchase of vehicles	-32.5	-9.3	1.5	19.8	13.2	0.5	-19.2	-3.3
Operation of personal transport equipment	1.8	10.0	7.2	2.6	1.8	1.2	-4.2	-4.1
Transport services	1.6	5.7	3.6	4.7	3.6	1.9	-31.9	-13.0
Communication	10.7	6.2	2.2	6.1	4.8	3.4	1.1	1.7
Recreation and culture	-0.4	2.1	16.3	6.7	4.8	2.6	-20.3	-2.9
Audio-visual, photographic and information processing equipment	-1.2	-15.8	-1.2	7.2	0.4	7.0	2.9	-7.8
Other recreation and entertainment	-0.1	10.2	25.7	8.0	6.6	2.3	-27.5	-1.3
Newspaper, books and stationery	-0.2	-4.4	-4.2	-0.9	-1.2	-1.3	-3.3	-3.7
Education	0.1	4.3	1.5	2.8	5.1	4.4	-1.3	1.6
Restaurants and hotels	2.5	12.4	5.3	10.6	4.3	7.6	-48.1	-18.8
Miscellaneous goods and services	7.0	9.7	3.5	5.6	5.7	4.0	-5.9	-0.4
Personal care	7.0	9.7	3.0	6.5	1.9	6.7	0.3	4.2
Personal effects n.e.c.	11.2	23.1	3.1	8.7	10.7	5.7	-19.7	-7.1
Financial services	6.5	5.2	3.9	3.0	4.9	2.4	1.3	2.5
Other services n.e.c.	2.5	5.6	3.0	8.5	4.4	3.0	-13.9	-6.5
Individual consumption expenditure of non-profit institutions serving households (NPISHs)	7.2	-0.5	1.6	1.8	1.1	2.8	-4.9	-5.3
Health, education, and social protection	5.4	-0.5	0.5	5.9	1.3	2.2	-1.7	-4.0
Other services n.e.c.	9.3	-0.5	2.8	-2.8	0.9	3.5	-8.7	-6.9
Private final consumption expenditure in the domestic market	0.1	4.9	3.8	5.2	3.8	3.7	-12.8	-1.8
Plus : Expenditure of residents abroad	11.9	12.6	20.6	10.1	8.7	-3.2	-65.5	-22.1
Less : Expenditure of non-residents in the country	-0.6	22.1	12.2	16.9	1.5	0.9	-80.0	-66.7
Private final consumption expenditure	0.5	2.6	2.9	3.1	4.6	4.0	-0.8	0.6

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

	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Individual consumption expenditure of households	7,643,857	7,959,989	8,310,891	8,811,308	9,237,853	9,676,340	8,384,808	8,321,382
Food and non-alcoholic	1,917,188	1,961,940	2,038,672	2,061,402	2,091,895	2,210,373	2,291,399	2,356,753
Non-durable goods	1,917,188	1,961,940	2,038,672	2,061,402	2,091,895	2,210,373	2,291,399	2,356,753
Alcoholic beverages, tobacco and narcotic	264,832	270,515	281,891	287,214	289,185	291,797	278,123	275,265
Non-durable goods	264,832	270,515	281,891	287,214	289,185	291,797	278,123	275,265
Clothing and footwear	333,965	348,188	363,489	371,511	382,354	392,746	318,973	291,122
Semi-durable goods	329,756	343,611	359,511	367,520	378,304	388,712	315,872	288,310
Services	4,209	4,577	3,978	3,991	4,050	4,034	3,101	2,812
Housing, water, electricity, gas and other fuels	687,411	718,604	737,130	766,719	799,986	839,689	857,802	885,338
Non-durable goods	262,268	268,818	265,714	266,507	276,479	297,907	301,506	312,577
Services	425,143	449,786	471,416	500,212	523,507	541,782	556,296	572,761
Furnishings, households equipment and routine maintenance of the house	318,740	332,920	334,813	342,918	359,610	369,194	353,630	355,775
Durable goods	72,043	73,998	73,860	74,124	75,945	77,421	73,905	72,364
Semi-durable goods	163,946	170,862	169,988	174,784	185,967	191,243	181,821	184,259
Non-durable goods	47,089	49,088	51,101	53,220	55,523	57,204	55,119	56,829
Services	35,662	38,972	39,864	40,790	42,175	43,326	42,785	42,323
Health	343,909	358,763	378,323	393,782	414,681	435,494	463,344	505,318
Durable goods	6,375	6,511	6,819	6,781	7,504	8,154	7,598	8,089
Non-durable goods	138,706	147,430	160,771	171,053	175,922	185,638	199,244	214,933
Services	198,828	204,822	210,733	215,948	231,255	241,702	256,502	282,296
Transport	1,129,091	1,065,411	1,069,580	1,191,956	1,298,115	1,315,799	1,045,950	1,060,175
Durable goods	331,077	302,467	307,901	369,883	420,017	422,130	340,213	327,826
Semi-durable goods	28,408	30,999	31,691	32,963	34,384	35,116	32,319	34,218
Non-durable goods	378,652	324,834	317,948	358,449	396,246	397,528	347,260	404,793
Services	390,954	407,111	412,040	430,661	447,468	461,025	326,158	293,338
Communication	156,451	162,153	165,564	175,327	184,058	190,148	192,143	194,776
Durable goods	7,497	7,467	7,543	7,658	7,757	7,951	7,855	8,465
Services	148,954	154,686	158,021	167,669	176,301	182,197	184,288	186,311
Recreation and culture	386,418	393,524	454,055	486,072	513,344	528,054	419,183	407,023
Durable goods	78,529	65,500	64,710	69,415	68,850	73,682	76,219	69,560
Semi-durable goods	43,656	44,085	41,346	43,088	44,780	42,611	42,127	41,502
Non-durable goods	42,880	40,530	41,715	39,866	39,774	39,970	39,547	38,295
Services	221,353	243,409	306,284	333,703	359,940	371,791	261,290	257,666
Education	95,462	101,379	105,648	110,988	117,825	123,425	121,942	122,428
Services	95,462	101,379	105,648	110,988	117,825	123,425	121,942	122,428
Restaurants and hotels	1,120,131	1,278,216	1,355,958	1,538,632	1,634,145	1,770,920	898,596	713,977
Services	1,120,131	1,278,216	1,355,958	1,538,632	1,634,145	1,770,920	898,596	713,977
Miscellaneous goods and services	890,259	968,376	1,025,768	1,084,787	1,152,655	1,208,701	1,143,723	1,153,432
Durable goods	134,886	154,960	173,172	192,099	209,547	227,339	188,424	185,059
Semi-durable goods	47,294	59,976	65,149	66,305	71,314	75,295	73,700	69,767
Non-durable goods	119,367	132,333	136,714	147,033	150,597	161,593	172,295	186,754
Services	588,712	621,107	650,733	679,350	721,197	744,474	709,304	711,852
Individual consumption expenditure of non-profit institutions serving households (NPISHs)	144,252	144,725	145,949	149,527	152,836	158,180	149,529	144,021
Semi-durable goods	1,092	1,115	1,091	1,020	977	971	924	945
Non-durable goods	24,483	25,808	25,915	26,637	27,115	27,879	26,986	26,895
Services	118,677	117,802	118,943	121,870	124,744	129,330	121,619	116,181
Private final consumption expenditure in the domestic market	7,788,109	8,104,714	8,456,840	8,960,835	9,390,689	9,834,520	8,534,337	8,465,403
Plus : Expenditure of residents abroad	215,003	239,935	290,023	321,458	353,053	344,332	117,886	93,286
Less : Expenditure of non-residents in the country	1,044,473	1,288,103	1,450,311	1,703,558	1,739,056	1,772,468	344,285	103,516
Private final consumption expenditure	6,958,639	7,056,546	7,296,552	7,578,735	8,004,686	8,406,384	8,307,938	8,455,173
Durable goods	630,408	610,904	634,005	719,961	789,620	816,678	694,214	671,362
Semi-durable goods	614,152	650,648	668,775	685,680	715,727	733,948	646,764	619,002
Non-durable goods	3,195,465	3,221,300	3,320,441	3,411,381	3,502,738	3,669,888	3,711,478	3,873,093
Services	2,518,614	2,573,694	2,673,331	2,761,713	2,996,601	3,185,870	3,255,482	3,291,716

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

	(Million Baht)							
	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Individual consumption expenditure of households	5,306,412	5,574,451	5,790,310	6,096,216	6,333,230	6,566,936	5,718,303	5,618,475
Food and non-alcoholic	902,910	922,877	942,830	964,750	986,121	1,010,750	1,033,131	1,063,799
Non-durable goods	902,910	922,877	942,830	964,750	986,121	1,010,750	1,033,131	1,063,799
Alcoholic beverages, tobacco and narcotic	204,218	207,397	200,544	199,363	195,513	199,590	191,186	187,854
Non-durable goods	204,218	207,397	200,544	199,363	195,513	199,590	191,186	187,854
Clothing and footwear	284,688	288,308	295,285	301,711	305,382	310,754	252,370	229,416
Semi-durable goods	280,796	284,164	291,682	298,086	301,783	307,189	249,642	226,966
Services	3,940	4,212	3,600	3,615	3,581	3,535	2,687	2,409
Housing, water, electricity, gas and other fuels	595,425	623,768	650,268	677,521	699,039	727,794	751,869	771,334
Non-durable goods	176,055	186,371	194,248	197,074	200,296	212,077	222,240	226,506
Services	415,341	432,296	450,718	476,559	495,608	511,367	524,111	539,580
Furnishings, households equipment and routine maintenance of the house	292,501	301,948	303,081	312,445	328,434	338,755	329,851	332,963
Durable goods	75,288	76,803	76,537	77,954	80,650	83,374	81,425	80,095
Semi-durable goods	162,366	168,110	166,707	173,023	185,537	191,969	186,457	189,892
Non-durable goods	34,938	36,231	37,988	39,600	41,081	42,188	40,696	41,868
Services	24,085	24,963	25,316	25,550	25,770	26,257	26,027	25,788
Health	313,074	323,326	338,618	349,200	367,556	386,272	410,461	444,460
Durable goods	7,303	7,181	7,307	7,059	7,803	8,472	7,848	8,123
Non-durable goods	131,630	139,315	152,403	160,359	165,006	174,437	186,824	198,785
Services	175,204	178,086	180,698	183,837	196,631	205,485	217,972	239,521
Transport	713,461	735,203	767,245	830,591	879,600	890,052	735,502	690,273
Durable goods	293,512	266,129	270,019	323,503	366,266	368,051	297,396	287,500
Semi-durable goods	21,743	24,237	24,794	25,364	26,057	26,570	24,705	25,583
Non-durable goods	144,033	158,565	170,730	174,487	176,869	179,313	175,647	166,417
Services	269,513	285,944	297,447	311,594	322,912	328,128	230,727	205,332
Communication	217,781	231,361	236,490	250,854	263,006	271,903	274,760	279,342
Durable goods	12,819	12,894	13,031	13,235	13,413	13,753	13,691	14,814
Services	205,344	218,732	223,704	237,773	249,671	258,210	261,093	264,720
Recreation and culture	365,174	372,687	433,406	462,654	484,765	497,524	396,354	384,769
Durable goods	91,806	75,986	74,423	79,783	79,792	85,981	88,960	80,817
Semi-durable goods	41,488	41,584	38,799	40,355	42,012	40,081	39,629	38,989
Non-durable goods	37,294	34,892	35,935	35,607	35,039	35,458	35,099	33,867
Services	192,030	212,974	271,774	293,694	313,136	321,622	227,291	224,501
Education	90,239	94,088	95,519	98,168	103,197	107,705	106,335	108,004
Services	90,239	94,088	95,519	98,168	103,197	107,705	106,335	108,004
Restaurants and hotels	814,304	915,296	964,207	1,066,212	1,111,948	1,196,611	621,349	504,648
Services	814,304	915,296	964,207	1,066,212	1,111,948	1,196,611	621,349	504,648
Miscellaneous goods and services	610,497	669,442	692,665	731,140	772,656	803,372	755,593	752,795
Durable goods	75,125	91,640	93,371	103,459	114,101	118,627	90,615	85,001
Semi-durable goods	36,618	46,271	49,090	50,590	56,636	62,627	57,930	52,421
Non-durable goods	98,401	107,924	110,807	118,792	121,384	130,163	138,377	149,707
Services	402,701	424,784	440,841	458,742	479,476	492,160	477,119	477,349
Individual consumption expenditure of non-profit institutions serving households (NPISHs)	102,512	101,973	103,575	105,410	106,570	109,521	104,197	98,689
Semi-durable goods	1,079	1,095	1,076	1,007	962	955	908	932
Non-durable goods	19,078	19,829	19,852	20,283	20,335	20,542	19,688	19,439
Services	82,286	81,082	82,638	84,093	85,213	87,920	83,512	78,302
Private final consumption expenditure in the domestic market	5,408,649	5,676,266	5,893,735	6,201,534	6,439,758	6,676,426	5,822,300	5,717,045
Plus : Expenditure of residents abroad	160,885	181,198	218,529	240,634	261,522	253,229	87,252	67,994
Less : Expenditure of non-residents in the country	808,294	987,273	1,107,338	1,294,920	1,314,276	1,326,724	265,203	88,337
Private final consumption expenditure	4,785,280	4,909,901	5,051,349	5,207,330	5,445,519	5,661,479	5,617,251	5,650,587
Durable goods	554,835	543,060	548,337	622,381	684,658	701,224	585,639	560,105
Semi-durable goods	543,311	565,958	573,837	589,832	613,702	630,318	555,643	528,273
Non-durable goods	1,713,980	1,778,176	1,828,280	1,870,783	1,903,113	1,959,190	1,992,609	2,034,180
Services	2,023,460	2,063,082	2,141,261	2,176,395	2,324,483	2,460,820	2,532,884	2,559,338

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)

	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Individual consumption expenditure of households	159.5	167.5	174.0	183.2	190.3	197.4	171.9	168.9
Food and non-alcoholic	125.4	128.1	130.9	133.9	136.9	140.3	143.4	147.7
<i>Non-durable goods</i>	125.4	128.1	130.9	133.9	136.9	140.3	143.4	147.7
Alcoholic beverages, tobacco and narcotic	118.8	120.6	116.6	115.9	113.7	116.1	111.2	109.2
<i>Non-durable goods</i>	118.8	120.6	116.6	115.9	113.7	116.1	111.2	109.2
Clothing and footwear	119.8	121.3	124.3	127.0	128.5	130.8	106.2	96.5
<i>Semi-durable goods</i>	119.1	120.6	123.7	126.5	128.0	130.3	105.9	96.3
<i>Services</i>	204.2	218.3	186.6	187.4	185.6	183.2	139.3	124.9
Housing, water, electricity, gas and other fuels	156.7	164.1	171.1	178.3	184.0	191.5	197.9	203.0
<i>Non-durable goods</i>	171.0	181.1	188.7	191.5	194.6	206.0	215.9	220.1
<i>Services</i>	149.9	156.0	162.7	172.0	178.9	184.6	189.2	194.7
Furnishings, households equipment and routine maintenance of the house	188.4	194.5	195.2	201.2	211.5	218.2	212.4	214.5
<i>Durable goods</i>	243.3	248.2	247.3	251.9	260.6	269.4	263.1	258.8
<i>Semi-durable goods</i>	221.4	229.3	227.3	236.0	253.0	261.8	254.3	259.0
<i>Non-durable goods</i>	145.4	150.8	158.1	164.8	171.0	175.6	169.4	174.2
<i>Services</i>	89.3	92.6	93.9	94.8	95.6	97.4	96.5	95.7
Health	198.7	205.2	214.9	221.6	233.3	245.2	260.5	282.1
<i>Durable goods</i>	554.9	545.7	555.2	536.4	592.9	643.8	596.3	617.2
<i>Non-durable goods</i>	230.5	244.0	266.9	280.8	289.0	305.5	327.2	348.1
<i>Services</i>	176.7	179.7	182.3	185.5	198.4	207.3	219.9	241.6
Transport	156.8	161.6	168.6	182.5	193.3	195.6	161.6	151.7
<i>Durable goods</i>	224.5	203.6	206.5	247.4	280.2	281.5	227.5	219.9
<i>Semi-durable goods</i>	142.7	159.0	162.7	166.4	171.0	174.3	162.1	167.8
<i>Non-durable goods</i>	119.4	131.5	141.6	144.7	146.6	148.7	145.6	138.0
<i>Services</i>	143.2	151.9	158.1	165.6	171.6	174.4	122.6	109.1
Communication	240.1	255.0	260.7	276.5	289.9	299.7	302.9	307.9
<i>Durable goods</i>	235.5	236.8	239.4	243.1	246.4	252.6	251.5	272.1
<i>Services</i>	240.8	256.5	262.3	278.8	292.8	302.8	306.2	310.4
Recreation and culture	207.2	211.4	245.9	262.5	275.0	282.3	224.9	218.3
<i>Durable goods</i>	156.1	129.2	126.5	135.6	135.6	146.2	151.2	137.4
<i>Semi-durable goods</i>	234.8	235.4	219.6	228.4	237.8	226.9	224.3	220.7
<i>Non-durable goods</i>	136.7	127.9	131.7	130.5	128.5	130.0	128.7	124.2
<i>Services</i>	262.6	291.2	371.6	401.6	428.2	439.8	310.8	307.0
Education	158.6	165.4	167.9	172.5	181.4	189.3	186.9	189.8
<i>Services</i>	158.6	165.4	167.9	172.5	181.4	189.3	186.9	189.8
Restaurants and hotels	196.5	220.9	232.7	257.3	268.3	288.8	149.9	121.8
<i>Services</i>	196.5	220.9	232.7	257.3	268.3	288.8	149.9	121.8
Miscellaneous goods and services	195.2	214.1	221.5	233.8	247.1	256.9	241.6	240.7
<i>Durable goods</i>	170.7	208.2	212.1	235.0	259.2	269.5	205.8	193.1
<i>Semi-durable goods</i>	583.0	736.7	781.6	805.5	901.7	997.1	922.3	834.6
<i>Non-durable goods</i>	199.6	218.9	224.8	241.0	246.2	264.1	280.7	303.7
<i>Services</i>	189.0	199.3	206.9	215.3	225.0	231.0	223.9	224.0
Individual consumption expenditure of non-profit institutions serving households (NPISHs)	178.8	177.9	180.7	183.9	185.9	191.1	181.8	172.2
<i>Semi-durable goods</i>	475.6	482.6	474.3	443.9	424.0	420.9	400.2	410.8
<i>Non-durable goods</i>	386.6	401.9	402.3	411.1	412.1	416.3	399.0	394.0
<i>Services</i>	157.7	155.4	158.3	161.1	163.3	168.5	160.0	150.0
Private final consumption expenditure in the domestic market	159.8	167.7	174.1	183.2	190.3	197.3	172.0	168.9
Plus : Expenditure of residents abroad	141.4	159.2	192.1	211.5	229.8	222.5	76.7	59.8
Less : Expenditure of non-residents in the country	287.3	350.9	393.6	460.2	467.1	471.5	94.3	31.4
Private final consumption expenditure	148.2	152.0	156.4	161.2	168.6	175.3	173.9	175.0
<i>Durable goods</i>	204.5	200.2	202.1	229.4	252.4	258.5	215.9	206.5
<i>Semi-durable goods</i>	155.9	162.4	164.7	169.3	176.1	180.9	159.5	151.6
<i>Non-durable goods</i>	134.1	139.1	143.0	146.4	148.9	153.3	155.9	159.2
<i>Services</i>	151.4	154.3	160.2	162.8	173.9	184.1	189.5	191.4

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

	2014	2015	2016	2017	2018r	2019r	2020r	Percent 2021p
Individual consumption expenditure of households	0.0	5.1	3.9	5.3	3.9	3.7	-12.9	-1.7
Food and non-alcoholic	0.9	2.2	2.2	2.3	2.2	2.5	2.2	3.0
Non-durable goods	0.9	2.2	2.2	2.3	2.2	2.5	2.2	3.0
Alcoholic beverages, tobacco and narcotic	-2.1	1.6	-3.3	-0.6	-1.9	2.1	-4.2	-1.7
Non-durable goods	-2.1	1.6	-3.3	-0.6	-1.9	2.1	-4.2	-1.7
Clothing and footwear	-2.1	1.3	2.4	2.2	1.2	1.8	-18.8	-9.1
Semi-durable goods	-2.1	1.2	2.6	2.2	1.2	1.8	-18.7	-9.1
Services	-2.9	6.9	-14.5	0.4	-0.9	-1.3	-24.0	-10.3
Housing, water, electricity, gas and other fuels	3.6	4.8	4.2	4.2	3.2	4.1	3.3	2.6
Non-durable goods	2.5	5.9	4.2	1.5	1.6	5.9	4.8	1.9
Services	4.3	4.1	4.3	5.7	4.0	3.2	2.5	3.0
Furnishings, households equipment and routine maintenance of the house	1.9	3.2	0.4	3.1	5.1	3.1	-2.6	0.9
Durable goods	0.2	2.0	-0.3	1.9	3.5	3.4	-2.3	-1.6
Semi-durable goods	3.3	3.5	-0.8	3.8	7.2	3.5	-2.9	1.8
Non-durable goods	2.7	3.7	4.8	4.2	3.7	2.7	-3.5	2.9
Services	-2.4	3.6	1.4	0.9	0.9	1.9	-0.9	-0.9
Health	2.9	3.3	4.7	3.1	5.3	5.1	6.3	8.3
Durable goods	-1.2	-1.7	1.8	-3.4	10.5	8.6	-7.4	3.5
Non-durable goods	6.8	5.8	9.4	5.2	2.9	5.7	7.1	6.4
Services	0.4	1.6	1.5	1.7	7.0	4.5	6.1	9.9
Transport	-11.3	3.0	4.4	8.3	5.9	1.2	-17.4	-6.1
Durable goods	-32.5	-9.3	1.5	19.8	13.2	0.5	-19.2	-3.3
Semi-durable goods	-1.7	11.5	2.3	2.3	2.7	2.0	-7.0	3.6
Non-durable goods	2.0	10.1	7.7	2.2	1.4	1.4	-2.0	-5.3
Services	1.7	6.1	4.0	4.8	3.6	1.6	-29.7	-11.0
Communication	10.7	6.2	2.2	6.1	4.8	3.4	1.1	1.7
Durable goods	13.0	0.6	1.1	1.6	1.3	2.5	-0.5	8.2
Services	10.5	6.5	2.3	6.3	5.0	3.4	1.1	1.4
Recreation and culture	-0.4	2.1	16.3	6.7	4.8	2.6	-20.3	-2.9
Durable goods	-1.4	-17.2	-2.1	7.2	0.0	7.8	3.5	-9.2
Semi-durable goods	0.2	0.2	-6.7	4.0	4.1	-4.6	-1.1	-1.6
Non-durable goods	-2.1	-6.4	3.0	-0.9	-1.6	1.2	-1.0	-3.5
Services	0.2	10.9	27.6	8.1	6.6	2.7	-29.3	-1.2
Education	0.1	4.3	1.5	2.8	5.1	4.4	-1.3	1.6
Services	0.1	4.3	1.5	2.8	5.1	4.4	-1.3	1.6
Restaurants and hotels	2.5	12.4	5.3	10.6	4.3	7.6	-48.1	-18.8
Services	2.5	12.4	5.3	10.6	4.3	7.6	-48.1	-18.8
Miscellaneous goods and services	7.0	9.7	3.5	5.6	5.7	4.0	-5.9	-0.4
Durable goods	4.3	22.0	1.9	10.8	10.3	4.0	-23.6	-6.2
Semi-durable goods	39.0	26.4	6.1	3.1	12.0	10.6	-7.5	-9.5
Non-durable goods	8.4	9.7	2.7	7.2	2.2	7.2	6.3	8.2
Services	5.4	5.5	3.8	4.1	4.5	2.6	-3.1	0.0
Individual consumption expenditure of non-profit institutions serving households (NPISHs)	7.2	-0.5	1.6	1.8	1.1	2.8	-4.9	-5.3
Semi-durable goods	12.7	1.5	-1.7	-6.4	-4.5	-0.7	-4.9	2.6
Non-durable goods	4.8	3.9	0.1	2.2	0.3	1.0	-4.2	-1.3
Services	7.7	-1.5	1.9	1.8	1.3	3.2	-5.0	-6.2
Private final consumption expenditure in the domestic market	0.1	4.9	3.8	5.2	3.8	3.7	-12.8	-1.8
Plus : Expenditure of residents abroad	11.9	12.6	20.6	10.1	8.7	-3.2	-65.5	-22.1
Less : Expenditure of non-residents in the country	-0.6	22.1	12.2	16.9	1.5	0.9	-80.0	-66.7
Private final consumption expenditure	0.5	2.6	2.9	3.1	4.6	4.0	-0.8	0.6
Durable goods	-19.5	-2.1	1.0	13.5	10.0	2.4	-16.5	-4.4
Semi-durable goods	1.8	4.2	1.4	2.8	4.0	2.7	-11.8	-4.9
Non-durable goods	1.4	3.7	2.8	2.3	1.7	2.9	1.7	2.1
Services	5.7	2.0	3.8	1.6	6.8	5.9	2.9	1.0

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

	(Million Baht)							
	2014	2015	2016	2017	2018r	2019r	2020r	2021p
By type of expenditure								
Compensation of employees	1,228,295	1,297,373	1,350,895	1,402,532	1,462,566	1,524,086	1,581,170	1,625,987
Consumption of fixed capital	249,347	261,017	273,413	286,657	300,641	310,087	317,952	324,967
Purchases from enterprises and abroad	621,383	680,722	716,827	716,662	794,731	805,540	815,319	842,502
Less: Purchases by households and enterprises	105,072	129,347	140,669	151,516	177,879	187,973	210,396	232,008
Social transfers in kind - purchased market production	244,131	243,277	260,220	270,068	268,161	279,132	283,060	390,277
General government final consumption expenditure	2,238,084	2,353,042	2,460,686	2,524,403	2,648,220	2,730,872	2,787,105	2,951,725
By classification of the functions of government (COFOG)								
General public services	322,281	349,286	359,128	359,444	369,985	387,918	383,333	399,106
Defence	218,360	239,571	259,016	261,422	293,445	295,914	302,179	289,947
Public order and safety	200,720	211,882	221,432	223,976	230,987	241,102	248,558	254,181
Economic affairs	294,757	301,524	300,753	313,662	330,934	340,239	333,968	331,483
Environmental protection	28,925	31,598	34,291	35,203	34,434	36,092	39,614	40,938
Housing and community amenities	67,899	70,063	74,870	78,184	83,474	85,027	80,467	85,640
Health	369,807	383,705	409,936	438,968	466,348	491,951	544,316	680,773
Recreation, culture and religion	37,452	37,673	39,906	41,032	42,952	41,525	39,360	41,817
Education	665,947	695,012	727,979	743,047	763,298	780,732	785,844	802,739
Social protection	31,936	32,728	33,375	29,465	32,363	30,372	29,466	25,101
General government final consumption expenditure	2,238,084	2,353,042	2,460,686	2,524,403	2,648,220	2,730,872	2,787,105	2,951,725
By type of services								
Collective consumption expenditure	1,141,173	1,204,158	1,249,398	1,269,543	1,344,055	1,385,984	1,389,098	1,402,477
Individual consumption expenditure	1,096,911	1,148,884	1,211,288	1,254,860	1,304,165	1,344,888	1,398,007	1,549,248
General government final consumption expenditure	2,238,084	2,353,042	2,460,686	2,524,403	2,648,220	2,730,872	2,787,105	2,951,725

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

	(Million Baht)							
	2014	2015	2016	2017	2018r	2019r	2020r	2021p
By type of expenditure								
Compensation of employees	708,807	715,799	718,298	721,366	730,680	743,430	756,633	759,339
Consumption of fixed capital	168,101	170,249	172,031	177,500	183,700	186,569	189,032	190,434
Purchases from enterprises and abroad	499,066	556,270	588,705	582,674	637,395	647,509	669,524	678,829
Less: Purchases by households and enterprises	85,908	107,878	118,027	125,813	145,602	154,192	176,175	190,230
Social transfers in kind - purchased market production	198,656	195,931	208,932	215,823	212,526	219,667	224,183	303,371
General government final consumption expenditure	1,457,177	1,493,837	1,526,168	1,530,150	1,571,045	1,595,583	1,617,485	1,676,996
By classification of the functions of government (COFOG)								
General public services	220,622	234,841	235,823	230,097	231,536	239,269	234,589	238,526
Defence	140,887	151,070	159,047	156,081	170,854	169,683	172,494	161,742
Public order and safety	135,064	138,798	140,702	138,144	138,695	142,113	144,915	144,672
Economic affairs	197,605	198,511	192,987	197,067	203,825	206,458	201,409	196,345
Environmental protection	19,209	20,682	21,918	22,018	21,097	21,849	23,940	24,240
Housing and community amenities	45,974	46,553	48,530	49,734	52,138	52,456	49,379	51,576
Health	261,793	266,116	278,809	292,727	304,930	317,186	350,172	428,789
Recreation, culture and religion	27,954	27,996	29,310	29,658	30,531	29,348	27,945	29,077
Education	387,527	389,331	398,935	398,523	401,102	403,508	401,946	402,359
Social protection	23,591	23,971	24,134	20,834	22,394	20,774	20,173	16,803
General government final consumption expenditure	1,457,177	1,493,837	1,526,168	1,530,150	1,571,045	1,595,583	1,617,485	1,676,996
By type of services								
Collective consumption expenditure	817,333	850,271	864,119	861,053	895,288	914,222	915,226	910,141
Individual consumption expenditure	638,952	644,962	662,542	668,478	677,529	684,253	702,551	757,962
General government final consumption expenditure	1,457,177	1,493,837	1,526,168	1,530,150	1,571,045	1,595,583	1,617,485	1,676,996

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)

	2014	2015	2016	2017	2018r	2019r	2020r	2021p
By type of expenditure								
Compensation of employees	156.7	158.2	158.8	159.5	161.5	164.4	167.3	167.9
Consumption of fixed capital	146.5	148.3	149.9	154.7	160.1	162.6	164.7	165.9
Purchases from enterprises and abroad	274.7	306.2	324.0	320.7	350.8	356.4	368.5	373.6
Less: Purchases by households and enterprises	403.6	506.9	554.6	591.1	684.1	724.5	827.8	893.8
Social transfers in kind - purchased market production	611.6	603.2	643.2	664.4	654.2	676.2	690.1	933.9
General government final consumption expenditure	191.7	196.6	200.8	201.3	206.7	209.9	212.8	220.7
By classification of the functions of government (COFOG)								
General public services	196.4	209.1	210.0	204.9	206.1	213.0	208.9	212.4
Defence	150.6	161.4	170.0	166.8	182.6	181.3	184.3	172.8
Public order and safety	184.5	189.6	192.2	188.7	189.5	194.1	197.9	197.6
Economic affairs	164.8	165.6	161.0	164.4	170.0	172.2	168.0	163.8
Environmental protection	354.0	381.2	403.9	405.8	388.8	402.7	441.2	446.7
Housing and community amenities	228.0	230.9	240.7	246.7	258.6	260.2	244.9	255.8
Health	272.9	277.4	290.6	305.1	317.8	330.6	365.0	446.9
Recreation, culture and religion	170.9	171.2	179.2	181.3	186.7	179.4	170.8	177.8
Education	178.5	179.3	183.7	183.6	184.7	185.9	185.1	185.3
Social protection	393.8	400.1	402.8	347.8	373.8	346.8	336.7	280.5
General government final consumption expenditure	191.7	196.6	200.8	201.3	206.7	209.9	212.8	220.7
By type of services								
Collective consumption expenditure	187.1	194.6	197.8	197.1	205.0	209.3	209.5	208.4
Individual consumption expenditure	197.7	199.6	205.0	206.9	209.7	211.7	217.4	234.5
General government final consumption expenditure	191.7	196.6	200.8	201.3	206.7	209.9	212.8	220.7

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

	2014	2015	2016	2017	2018r	2019r	2020r	Percent 2021p
By type of expenditure								
Compensation of employees	3.3	1.0	0.3	0.4	1.3	1.7	1.8	0.4
Consumption of fixed capital	-0.8	1.3	1.0	3.2	3.5	1.6	1.3	0.7
Purchases from enterprises and abroad	4.3	11.5	5.8	-1.0	9.4	1.6	3.4	1.4
Less: Purchases by households and enterprises	4.0	25.6	9.4	6.6	15.7	5.9	14.3	8.0
Social transfers in kind - purchased market production	1.0	-1.4	6.6	3.3	-1.5	3.4	2.1	35.3
General government final consumption expenditure	2.8	2.5	2.2	0.3	2.7	1.6	1.4	3.7
By classification of the functions of government (COFOG)								
General public services	3.6	6.4	0.4	-2.4	0.6	3.3	-2.0	1.7
Defence	9.1	7.2	5.3	-1.9	9.5	-0.7	1.7	-6.2
Public order and safety	1.2	2.8	1.4	-1.8	0.4	2.5	2.0	-0.2
Economic affairs	-2.7	0.5	-2.8	2.1	3.4	1.3	-2.4	-2.5
Environmental protection	0.4	7.7	6.0	0.5	-4.2	3.6	9.6	1.3
Housing and community amenities	-8.9	1.3	4.2	2.5	4.8	0.6	-5.9	4.4
Health	6.2	1.7	4.8	5.0	4.2	4.0	10.4	22.5
Recreation, culture and religion	-3.4	0.2	4.7	1.2	2.9	-3.9	-4.8	4.1
Education	3.2	0.5	2.5	-0.1	0.6	0.6	-0.4	0.1
Social protection	9.3	1.6	0.7	-13.7	7.5	-7.2	-2.9	-16.7
General government final consumption expenditure	2.8	2.5	2.2	0.3	2.7	1.6	1.4	3.7
By type of services								
Collective consumption expenditure	1.6	4.0	1.6	-0.4	4.0	2.1	0.1	-0.6
Individual consumption expenditure	4.1	0.9	2.7	0.9	1.4	1.0	2.7	7.9
General government final consumption expenditure	2.8	2.5	2.2	0.3	2.7	1.6	1.4	3.7

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

(Million Baht)

	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Construction	1,038,061	1,159,732	1,223,405	1,212,414	1,268,279	1,297,493	1,311,649	1,362,057
<i>Private</i>	543,891	529,357	524,010	526,729	561,595	571,075	555,311	559,878
<i>Public</i>	494,170	630,375	699,395	685,685	706,684	726,418	756,338	802,179
Equipment	2,224,717	2,211,337	2,236,496	2,366,763	2,462,590	2,514,892	2,323,717	2,443,418
<i>Private</i>	2,028,293	1,976,806	2,005,331	2,126,771	2,211,535	2,278,324	2,073,445	2,187,046
<i>Public</i>	196,424	234,531	231,165	239,992	251,055	236,568	250,272	256,372
Gross fixed capital formation	3,262,778	3,371,069	3,459,901	3,579,177	3,730,869	3,812,385	3,635,366	3,805,475
<i>Private</i>	2,572,184	2,506,163	2,529,341	2,653,500	2,773,130	2,849,399	2,628,756	2,746,924
<i>Public</i>	690,594	864,906	930,560	925,677	957,739	962,986	1,006,610	1,058,551
Change in inventories	-98,217	-298,624	-380,535	-26,962	398,424	209,730	82,360	822,607
Gross capital formation	3,164,561	3,072,445	3,079,366	3,552,215	4,129,293	4,022,115	3,717,726	4,628,082

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

(Million Baht)

	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Construction	677,748	784,133	846,807	829,249	855,607	868,819	884,812	904,872
<i>Private</i>	360,653	361,713	365,590	362,390	380,325	382,539	374,711	372,362
<i>Public</i>	316,664	420,053	478,040	463,837	472,272	483,174	506,834	529,094
Equipment	1,571,194	1,556,729	1,559,793	1,621,990	1,692,106	1,729,422	1,587,211	1,644,106
<i>Private</i>	1,436,150	1,397,005	1,402,885	1,459,315	1,520,199	1,568,029	1,416,540	1,472,551
<i>Public</i>	136,581	160,781	158,061	163,885	173,159	162,620	171,771	172,670
Gross fixed capital formation	2,252,515	2,350,865	2,418,543	2,463,149	2,560,080	2,610,781	2,485,517	2,562,798
<i>Private</i>	1,795,944	1,758,459	1,768,279	1,821,464	1,900,267	1,950,187	1,791,539	1,845,041
<i>Public</i>	455,702	585,133	641,321	632,869	650,678	651,385	684,450	707,928
Change in inventories	-63,572	-111,915	-340,739	-68,590	258,420	117,390	125,731	283,306
Gross capital formation	2,226,085	2,273,757	2,188,290	2,428,351	2,823,330	2,728,418	2,597,741	2,926,034

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)

	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Construction	142.9	165.3	178.6	174.9	180.4	183.2	186.6	190.8
<i>Private</i>	181.4	182.0	183.9	182.3	191.3	192.5	188.5	187.3
<i>Public</i>	114.9	152.5	173.5	168.4	171.4	175.4	184.0	192.1
Equipment	198.9	197.1	197.5	205.3	214.2	218.9	200.9	208.1
<i>Private</i>	212.7	206.9	207.8	216.1	225.1	232.2	209.8	218.1
<i>Public</i>	119.0	140.1	137.8	142.8	150.9	141.7	149.7	150.5
Gross fixed capital formation	178.2	186.0	191.3	194.8	202.5	206.5	196.6	202.7
<i>Private</i>	205.5	201.2	202.3	208.4	217.4	223.1	205.0	211.1
<i>Public</i>	116.8	149.9	164.3	162.2	166.7	166.9	175.4	181.4
Change in inventories								
Gross capital formation	169.6	173.3	166.8	185.1	215.2	207.9	198.0	223.0

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

	2014	2015	2016	2017	2018r	2019r	2020r	2021p
	Percent							
Construction	-2.0	15.7	8.0	-2.1	3.2	1.5	1.8	2.3
<i>Private</i>	-3.3	0.3	1.1	-0.9	4.9	0.6	-2.0	-0.6
<i>Public</i>	-0.6	32.6	13.8	-3.0	1.8	2.3	4.9	4.4
Equipment	-2.3	-0.9	0.2	4.0	4.3	2.2	-8.2	3.6
<i>Private</i>	-0.3	-2.7	0.4	4.0	4.2	3.1	-9.7	4.0
<i>Public</i>	-18.8	17.7	-1.7	3.7	5.7	-6.1	5.6	0.5
Gross fixed capital formation	-2.2	4.4	2.9	1.8	3.9	2.0	-4.8	3.1
<i>Private</i>	-0.9	-2.1	0.6	3.0	4.3	2.6	-8.1	3.0
<i>Public</i>	-6.6	28.4	9.6	-1.3	2.8	0.1	5.1	3.4
Change in inventories								
Gross capital formation	-12.3	2.1	-3.8	11.0	16.3	-3.4	-4.8	12.6

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

	(Million Baht)							
	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Construction	1,038,061	1,159,732	1,223,405	1,212,414	1,268,279	1,297,493	1,311,649	1,362,057
Private	543,891	529,357	524,010	526,729	561,595	571,075	555,311	559,878
Dwellings	306,604	295,710	293,168	297,375	313,067	309,458	286,823	281,578
Non-dwelling construction	161,304	158,754	147,773	150,369	154,736	165,039	156,228	160,442
Other construction	58,478	57,532	65,225	61,007	74,370	77,657	95,683	102,736
Costs of ownership transfer	17,505	17,361	17,844	17,978	19,422	18,921	16,577	15,122
Public	494,170	630,375	699,395	685,685	706,684	726,418	756,338	802,179
Dwellings	22,108	18,863	16,185	15,368	15,166	17,374	11,694	13,806
Non-dwelling construction	100,818	149,717	128,549	133,582	134,742	139,027	129,066	133,367
Other construction	371,245	461,795	554,660	536,735	556,776	570,017	615,578	655,006
Machinery and other equipment	2,224,717	2,211,337	2,236,496	2,366,763	2,462,590	2,514,892	2,323,717	2,443,418
Transport equipment	919,411	881,046	837,349	937,170	1,004,674	1,026,667	912,477	870,176
Road motor equipment	771,639	757,286	731,921	799,668	867,410	890,031	798,054	755,217
Other vehicles	147,772	123,760	105,428	137,502	137,264	136,636	114,423	114,959
Machinery and equipment	1,305,306	1,330,291	1,399,147	1,429,593	1,457,916	1,488,225	1,411,240	1,573,242
Industrial machinery	739,746	707,781	757,497	760,681	778,924	792,588	722,430	809,188
Office equipment	565,560	622,510	641,650	668,912	678,992	695,637	688,810	764,054
Gross fixed capital formation	3,262,778	3,371,069	3,459,901	3,579,177	3,730,869	3,812,385	3,635,366	3,805,475

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

	(Million Baht) lillion Baht)							
	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Construction	677,748	784,133	846,807	829,249	855,607	868,819	884,812	904,872
Private	360,653	361,713	365,590	362,390	380,325	382,539	374,711	372,362
Dwellings	200,327	198,656	203,129	203,346	210,722	204,554	190,818	184,773
Non-dwelling construction	106,616	108,128	103,664	104,006	105,438	108,762	103,875	104,954
Other construction	39,022	40,091	43,317	39,830	47,695	52,784	65,541	69,416
Costs of ownership transfer	13,547	13,753	14,497	14,384	15,315	15,016	13,223	11,887
Public	316,664	420,053	478,040	463,837	472,272	483,174	506,834	529,094
Dwellings	14,685	12,456	10,950	10,376	10,083	11,362	8,084	9,452
Non-dwelling construction	65,448	96,234	85,783	88,792	88,713	88,850	87,026	87,370
Other construction	235,920	310,447	381,412	364,606	373,452	382,968	412,151	432,726
Machinery and other equipment	1,571,194	1,556,729	1,559,793	1,621,990	1,692,106	1,729,422	1,587,211	1,644,106
Transport equipment	720,035	718,438	666,776	754,905	810,671	824,408	725,904	673,844
Road motor equipment	594,293	597,226	565,417	630,559	677,426	696,693	619,140	567,273
Other vehicles	129,709	124,576	101,403	126,746	135,774	128,211	106,070	107,381
Machinery and equipment	862,636	850,448	893,733	880,003	900,367	923,388	871,189	963,008
Industrial machinery	498,534	488,658	499,358	479,014	491,664	509,460	461,367	512,853
Office equipment	362,733	360,303	390,521	396,221	403,917	409,321	403,844	443,781
Gross fixed capital formation	2,252,515	2,350,865	2,418,543	2,463,149	2,560,080	2,610,781	2,485,517	2,562,798

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)

	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Construction	142.9	165.3	178.6	174.8	180.4	183.2	186.6	190.8
Private	181.4	182.0	183.9	182.3	191.3	192.5	188.5	187.3
Dwellings	192.5	190.9	195.2	195.4	202.5	196.6	183.4	177.6
Non-dwelling construction	166.1	168.4	161.5	162.0	164.2	169.4	161.8	163.5
Other construction	171.7	176.4	190.5	175.2	209.8	232.2	288.3	305.4
Costs of ownership transfer	174.4	177.1	186.7	185.2	197.2	193.4	170.3	153.1
Public	114.9	152.5	173.5	168.4	171.4	175.4	184.0	192.0
Dwellings	181.7	154.2	135.5	128.4	124.8	140.6	100.0	117.0
Non-dwelling construction	178.1	261.9	233.4	241.6	241.4	241.8	236.8	237.8
Other construction	102.3	134.6	165.4	158.1	161.9	166.0	178.7	187.6
Machinery and other equipment	198.9	197.1	197.5	205.3	214.2	218.9	200.9	208.1
Transport equipment	318.0	317.3	294.5	333.4	358.1	364.1	320.6	297.6
Road motor equipment	334.9	336.6	318.7	355.4	381.8	392.6	348.9	319.7
Other vehicles	264.9	254.4	207.1	258.9	277.3	261.9	216.6	219.3
Machinery and equipment	153.1	150.9	158.6	156.2	159.8	163.9	154.6	170.9
Industrial machinery	153.8	150.8	154.1	147.8	151.7	157.2	142.4	158.3
Office equipment	151.5	150.5	163.1	165.4	168.7	170.9	168.6	185.3
Gross fixed capital formation	178.2	186.0	191.3	194.8	202.5	206.5	196.6	202.7

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

	2014	2015	2016	2017	2018r	2019r	2020r	2021p
	Percent							
Construction	-2.0	15.7	8.0	-2.1	3.2	1.5	1.8	2.3
Private	-3.3	0.3	1.1	-0.9	4.9	0.6	-2.0	-0.6
Dwellings	-1.5	-0.8	2.3	0.1	3.6	-2.9	-6.7	-3.2
Non-dwelling construction	-8.3	1.4	-4.1	0.3	1.4	3.2	-4.5	1.0
Other construction	2.5	2.7	8.0	-8.0	19.7	10.7	24.2	5.9
Costs of ownership transfer	-4.6	1.5	5.4	-0.8	6.5	-2.0	-11.9	-10.1
Public	-0.6	32.6	13.8	-3.0	1.8	2.3	4.9	4.4
Dwellings	-3.2	-15.2	-12.1	-5.2	-2.8	12.7	-28.9	16.9
Non-dwelling construction	-5.4	47.0	-10.9	3.5	-0.1	0.2	-2.1	0.4
Other construction	0.9	31.6	22.9	-4.4	2.4	2.5	7.6	5.0
Machinery and other equipment	-2.3	-0.9	0.2	4.0	4.3	2.2	-8.2	3.6
Transport equipment	-9.0	-0.2	-7.2	13.2	7.4	1.7	-11.9	-7.2
Road motor equipment	-7.1	0.5	-5.3	11.5	7.4	2.8	-11.1	-8.4
Other vehicles	-15.7	-4.0	-18.6	25.0	7.1	-5.6	-17.3	1.2
Machinery and equipment	3.6	-1.4	5.1	-1.5	2.3	2.6	-5.7	10.5
Industrial machinery	-1.3	-2.0	2.2	-4.1	2.6	3.6	-9.4	11.2
Office equipment	11.2	-0.7	8.4	1.5	1.9	1.3	-1.3	9.9
Gross fixed capital formation	-2.2	4.4	2.9	1.8	3.9	2.0	-4.8	3.1

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

	(Million Baht)							
	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Tangible fixed assets	3,162,777	3,270,124	3,335,363	3,442,805	3,586,677	3,677,927	3,503,089	3,655,717
<i>Dwellings</i>	328,712	314,573	309,353	312,743	328,233	326,832	298,517	295,384
<i>Other buildings and structures</i>	654,660	800,134	821,420	811,325	843,312	879,497	933,425	981,476
<i>Machinery and equipment</i>	2,174,941	2,150,867	2,198,316	2,311,151	2,404,830	2,459,968	2,261,400	2,368,163
<i>Cultivated assets</i>	4,465	4,550	6,274	7,586	10,302	11,630	9,747	10,694
Intangible fixed assets	82,497	83,585	106,694	118,393	124,770	115,537	115,700	134,636
<i>Mineral exploration</i>	35,985	34,108	63,234	68,805	75,725	70,666	60,363	66,584
<i>Computer software</i>	46,512	49,477	43,460	49,588	49,045	44,871	55,337	68,052
Costs of ownership transfer	17,505	17,361	17,844	17,978	19,422	18,921	16,577	15,122
Gross fixed capital formation	3,262,778	3,371,069	3,459,901	3,579,177	3,730,869	3,812,385	3,635,366	3,805,475

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

	(Million Baht)							
	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Tangible fixed assets	2,175,996	2,272,657	2,326,421	2,366,570	2,461,180	2,509,530	2,380,917	2,446,094
<i>Dwellings</i>	214,799	210,935	213,871	213,501	220,569	215,702	198,680	193,950
<i>Other buildings and structures</i>	455,846	609,222	631,292	617,836	636,865	652,110	692,672	714,564
<i>Machinery and equipment</i>	1,485,895	1,434,959	1,463,364	1,512,762	1,578,654	1,615,692	1,474,215	1,521,692
<i>Cultivated assets</i>	21,385	24,711	32,424	39,647	48,145	53,261	44,091	47,138
Intangible fixed assets	65,078	66,416	81,313	86,183	87,676	90,351	96,480	112,165
<i>Mineral exploration</i>	28,683	27,669	50,015	50,653	52,354	57,377	54,405	62,690
<i>Computer software</i>	37,455	39,845	32,759	36,967	36,773	34,181	42,940	50,402
Costs of ownership transfer	13,547	13,753	14,497	14,384	15,315	15,016	13,223	11,887
Gross fixed capital formation	2,252,515	2,350,865	2,418,543	2,463,149	2,560,080	2,610,781	2,485,517	2,562,798

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)**

	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Tangible fixed assets	174.3	182.1	186.4	189.6	197.2	201.1	190.8	196.0
<i>Dwellings</i>	191.5	188.1	190.7	190.4	196.7	192.3	177.2	172.9
<i>Other buildings and structures</i>	130.0	173.7	180.0	176.1	181.6	185.9	197.5	203.7
<i>Machinery and equipment</i>	190.8	184.2	187.9	194.2	202.7	207.4	189.3	195.4
<i>Cultivated assets</i>	339.7	392.5	515.0	629.7	764.7	846.0	700.3	748.7
Intangible fixed assets	778.5	794.5	972.8	1,031.0	1,048.9	1,080.9	1,154.2	1,341.9
<i>Mineral exploration</i>	3,447.5	3,325.6	6,011.4	6,088.1	6,292.5	6,896.3	6,539.1	7,534.9
<i>Computer software</i>	497.6	529.4	435.2	491.1	488.5	454.1	570.5	669.6
Costs of ownership transfer	174.5	177.1	186.7	185.3	197.2	193.4	170.3	153.1
Gross fixed capital formation	178.2	186.0	191.3	194.8	202.5	206.5	196.6	202.7

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

	Percent							
	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Tangible fixed assets	-2.5	4.4	2.4	1.7	4.0	2.0	-5.1	2.7
<i>Dwellings</i>	-1.6	-1.8	1.4	-0.2	3.3	-2.2	-7.9	-2.4
<i>Other buildings and structures</i>	-1.6	33.6	3.6	-2.1	3.1	2.4	6.2	3.2
<i>Machinery and equipment</i>	-3.0	-3.4	2.0	3.4	4.4	2.3	-8.8	3.2
<i>Cultivated assets</i>	29.5	15.6	31.2	22.3	21.4	10.6	-17.2	6.9
Intangible fixed assets	11.0	2.1	22.4	6.0	1.7	3.1	6.8	16.3
<i>Mineral exploration</i>	1.1	-3.5	80.8	1.3	3.4	9.6	-5.2	15.2
<i>Computer software</i>	19.3	6.4	-17.8	12.8	-0.5	-7.0	25.6	17.4
Costs of ownership transfer	-4.6	1.5	5.4	-0.8	6.5	-2.0	-11.9	-10.1
Gross fixed capital formation	-2.2	4.4	2.9	1.8	3.9	2.0	-4.8	3.1

National income

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

	(Million Baht)							
	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Compensation of employees	4,323,540	4,554,169	4,711,391	4,855,252	5,044,149	5,170,262	5,004,341	5,059,533
Wages and salaries	3,839,449	4,026,068	4,141,598	4,252,535	4,409,000	4,481,694	4,323,444	4,362,815
Employers' social contributions	484,091	528,101	569,793	602,717	635,149	688,568	680,897	696,718
<i>Employers' actual social contributions</i>	158,414	169,913	176,570	182,437	194,909	203,300	185,499	170,765
<i>Employers' imputed social contributions</i>	325,677	358,188	393,223	420,280	440,240	485,268	495,398	525,953
Households and NPISHs mixed income and operating surplus	2,591,632	2,497,565	2,741,607	2,970,159	3,137,568	3,418,171	3,098,911	2,976,431
Households and NPISHs property income receivable	1,021,563	1,078,826	1,048,132	1,036,818	1,102,916	1,149,120	1,086,835	1,108,564
Interest	292,019	272,989	252,739	236,594	239,911	256,541	228,811	202,681
Distributed income of corporations	491,414	561,602	539,754	533,305	580,027	595,898	544,836	601,538
Investment income disbursements	155,102	163,185	173,698	184,944	198,072	210,150	224,484	214,464
Rent	83,028	81,050	81,941	81,975	84,906	86,531	88,704	89,881
General government property income receivable	209,437	223,094	221,074	235,433	253,472	255,136	205,609	234,479
Interest	43,113	45,883	44,193	44,185	42,500	42,040	39,002	35,960
Distributed income of corporations	119,288	130,004	121,228	130,150	145,396	154,281	115,037	145,814
Investment income disbursements	37,733	39,967	43,406	45,382	47,538	49,721	45,847	47,724
Rent	9,303	7,240	12,247	15,716	18,038	9,094	5,723	4,981
Appropriated corporation profit	1,425,258	1,452,344	1,771,393	2,083,544	2,191,815	2,274,106	2,082,215	2,332,781
Savings of corporations	930,341	928,064	1,286,907	1,573,381	1,575,165	1,647,327	1,503,056	1,722,696
Corporate current taxes on income	662,078	653,868	644,309	649,281	748,882	750,435	633,945	670,717
Corporate transfer payments	-167,161	-129,588	-159,823	-139,118	-132,232	-123,656	-54,786	-60,632
<i>Received by general government</i>	21,332	29,724	4,366	22,475	20,781	20,584	26,763	40,222
<i>Received by households and NPISHs</i>	21,659	24,563	23,322	23,680	25,827	25,840	23,840	27,137
<i>Received by Row (net)</i>	-210,152	-183,875	-187,511	-185,273	-178,840	-170,080	-105,389	-127,991
Households and NPISHs property income payable	313,785	322,480	319,842	329,753	345,612	364,406	352,926	354,905
Interest	230,757	241,430	237,901	247,778	260,706	277,875	264,222	265,024
Rent	83,028	81,050	81,941	81,975	84,906	86,531	88,704	89,881
General government property income payable	192,353	197,487	210,711	211,771	221,909	232,209	224,224	244,195
Interest	154,616	157,516	167,300	166,382	174,366	182,481	178,371	196,465
Investment income disbursements	37,733	39,967	43,406	45,382	47,538	49,721	45,847	47,724
Rent	4	4	5	7	5	7	6	6
Taxes on production and imports less subsidies	1,270,121	1,403,640	1,453,542	1,526,468	1,644,282	1,685,533	1,442,630	1,437,424
Net National Income (NNI)	10,335,413	10,689,671	11,416,586	12,166,150	12,806,681	13,355,713	12,343,391	12,550,112
Plus : Consumption of fixed capital	2,214,196	2,344,834	2,488,386	2,628,663	2,775,404	2,912,542	2,974,143	3,040,145
Gross National Income, (GNI) ^{1/}	12,549,609	13,034,505	13,904,972	14,794,813	15,582,085	16,268,255	15,317,534	15,590,257
Less : Primary income from the rest of the world, net	-680,697	-708,973	-685,365	-693,851	-791,255	-620,914	-343,616	-576,341
Gross Domestic Product (GDP)	13,230,306	13,743,478	14,590,337	15,488,664	16,373,340	16,889,169	15,661,150	16,166,598

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

Table 51 Savings and gross capital formation

(Million Baht)

	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Private sector	2,572,184	2,506,163	2,529,341	2,653,500	2,773,129	2,849,399	2,628,756	2,746,924
Public sector	690,594	864,906	930,560	925,677	957,740	962,986	1,006,610	1,058,551
Change in inventories	-98,217	-298,624	-380,535	-26,962	398,424	209,730	82,360	822,607
Gross domestic capital formation	3,164,561	3,072,445	3,079,366	3,552,215	4,129,293	4,022,115	3,717,726	4,628,082
Net savings	1,422,244	1,509,172	1,899,924	2,318,467	2,412,536	2,441,957	1,437,709	1,381,291
Private sector	1,490,935	1,440,213	1,837,752	2,234,485	2,281,900	2,326,907	2,250,717	2,469,946
Households and NPISHs	649,805	637,481	760,267	898,032	910,529	932,827	929,329	984,076
Corporations and cooperatives	841,130	802,732	1,077,485	1,336,453	1,371,371	1,394,080	1,321,388	1,485,870
Public sector	-68,691	68,959	62,172	83,982	130,636	115,050	-813,008	-1,088,655
General government	-157,902	-56,373	-147,250	-152,946	-73,158	-138,197	-994,676	-1,325,481
Public corporations and government enterprises	89,211	125,332	209,422	236,928	203,794	253,247	181,668	236,826
Provision for consumption of fixed capital	2,214,196	2,344,834	2,488,386	2,628,663	2,775,404	2,912,542	2,974,143	3,040,145
Less : Statistical discrepancy	90,711	-172,511	-225,672	-95,683	144,668	150,952	35,550	126,357
Gross savings	3,545,729	4,026,517	4,613,982	5,042,813	5,043,272	5,203,547	4,376,302	4,295,079
Less : Surplus of the nation on current account	381,168	954,072	1,534,616	1,490,598	913,979	1,181,432	658,576	-333,003
Finance of gross domestic capital formation	3,164,561	3,072,445	3,079,366	3,552,215	4,129,293	4,022,115	3,717,726	4,628,082

Table 52 General government income account

(Million Baht)

	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Income								
Primary income receivable	1,850,760	1,957,690	2,016,359	2,110,215	2,266,982	2,310,483	2,049,469	2,122,141
Gross operation surplus	249,348	261,017	273,413	286,657	300,641	310,087	317,952	324,967
Taxes on production and imports	1,391,975	1,473,579	1,521,872	1,588,125	1,712,869	1,745,260	1,525,908	1,562,695
Property income	209,437	223,094	221,074	235,433	253,472	255,136	205,609	234,479
Interest	43,113	45,883	44,193	44,185	42,500	42,040	39,002	35,960
Dividends	119,288	130,004	121,228	130,150	145,396	154,281	115,037	145,814
Investment income payable on pension entitlements ^{1/}	37,733	39,967	43,406	45,382	47,538	49,721	45,847	47,724
Rent	9,303	7,240	12,247	15,716	18,038	9,094	5,723	4,981
Secondary income receivable	2,042,535	2,201,660	2,206,884	2,296,417	2,395,181	2,477,684	2,325,230	2,353,627
Current taxes on income, wealth, etc.	915,579	944,041	945,045	940,953	1,053,244	1,082,561	947,094	974,647
Taxes on income	881,447	906,322	908,726	897,742	1,004,085	1,032,703	897,523	924,991
Other current taxes	34,132	37,719	36,319	43,211	49,159	49,858	49,571	49,656
Social contributions	427,890	460,843	510,514	542,202	573,014	615,765	589,066	595,568
Other current transfers	699,066	796,776	751,325	813,262	768,923	779,358	789,070	783,412
Non-life insurance claims	2	1	1	1	-	17	17	14
Current transfers within general government	656,299	734,081	701,203	762,526	710,498	724,119	732,384	722,332
Current international cooperation	3,497	2,190	3,009	2,572	3,180	2,673	3,255	4,448
Miscellaneous current transfers	39,268	60,504	47,112	48,163	55,245	52,549	53,414	56,618
Total income receivable	3,893,295	4,159,350	4,223,243	4,406,632	4,662,163	4,788,167	4,374,699	4,475,768
Use of income								
Primary income uses	314,207	267,426	279,041	273,428	290,496	291,936	307,502	369,466
Property income	192,353	197,487	210,711	211,771	221,909	232,209	224,224	244,195
Interest	154,616	157,516	167,300	166,382	174,366	182,481	178,371	196,465
Investment income payable on pension entitlements ^{1/}	37,733	39,967	43,406	45,382	47,538	49,721	45,847	47,724
Rent	4	4	5	7	5	7	6	6
Subsidies	121,854	69,939	68,330	61,657	68,587	59,727	83,278	125,271
Secondary income uses	1,118,434	1,199,395	1,222,223	1,330,631	1,346,773	1,439,699	1,838,767	2,051,365
Social benefits other than social transfers in kind	346,702	377,027	421,938	459,179	526,108	578,218	652,140	677,768
Social security benefits in cash	30,159	31,332	36,394	38,769	45,333	51,242	87,141	81,170
Other social insurance benefits	227,205	252,867	294,198	316,394	335,134	365,699	388,563	409,677
Social assistance benefits in cash	89,338	92,828	91,346	104,016	145,641	161,277	176,436	186,921
Other current transfers	771,732	822,368	800,285	871,452	820,665	861,481	1,186,627	1,373,597
Net non-life insurance premiums	444	200	184	251	279	296	306	364
Current transfers within general government	656,299	734,081	701,203	762,526	710,498	724,119	732,384	722,332
Current international cooperation	1,819	1,602	2,548	1,985	2,008	1,430	1,481	1,343
Miscellaneous current transfers	113,170	86,485	96,350	106,690	107,880	135,636	452,456	649,558
Total income payable	1,432,641	1,466,821	1,501,264	1,604,059	1,637,269	1,731,635	2,146,269	2,420,831
Gross disposable income	2,460,654	2,692,529	2,721,979	2,802,573	3,024,894	3,056,532	2,228,430	2,054,937
Final consumption expenditure	2,238,084	2,353,042	2,460,686	2,524,403	2,648,220	2,730,872	2,787,105	2,951,725
Adjustment for the change in pension entitlement	131,124	134,843	135,130	144,459	149,191	153,770	118,049	103,726
Net saving	-157,902	-56,373	-147,250	-152,946	-73,158	-138,197	-994,676	-1,325,481
Consumption of fixed capital	249,348	261,017	273,413	286,657	300,641	310,087	317,952	324,967
Total use of gross income	3,893,295	4,159,350	4,223,243	4,406,632	4,662,163	4,788,167	4,374,699	4,475,768

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

(Million Baht)

	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Income								
Primary income receivable	8,111,035	8,319,090	8,695,314	9,067,594	9,493,280	9,947,256	9,401,251	9,369,499
<i>Compensation of employees</i>	4,323,540	4,554,169	4,711,391	4,855,252	5,044,149	5,170,262	5,004,341	5,059,533
<i>Gross mixed income and operating surplus</i>	2,765,932	2,686,095	2,935,791	3,175,524	3,346,215	3,627,874	3,310,075	3,201,402
<i>Property income receivable</i>	1,021,563	1,078,826	1,048,132	1,036,818	1,102,916	1,149,120	1,086,835	1,108,564
Secondary income receivable	623,930	609,837	656,654	736,624	817,791	941,764	1,343,342	1,606,188
Social benefits other than social transfers in kind	346,702	377,027	421,938	459,179	526,108	578,218	652,140	677,768
Other current transfers	277,228	232,810	234,716	277,445	291,683	363,546	691,202	928,420
<i>from corporate</i>	21,659	24,563	23,322	23,680	25,827	25,840	23,840	27,137
<i>from general government</i>	105,648	76,012	68,835	95,688	93,017	120,707	441,363	647,507
<i>from the rest of the world</i>	149,921	132,235	142,559	158,077	172,839	216,999	225,999	253,776
Total income receivable	8,734,965	8,928,927	9,351,968	9,804,218	10,311,071	10,889,020	10,744,593	10,975,687
Use of income								
Primary income payable	313,785	322,480	319,842	329,753	345,612	364,406	352,926	354,905
Property income payable	313,785	322,480	319,842	329,753	345,612	364,406	352,926	354,905
Secondary income payable	769,560	858,733	916,253	936,792	990,788	1,129,470	1,061,285	1,060,288
Current taxes on income, wealth, etc.	253,501	290,173	300,736	291,672	304,362	332,126	313,149	303,930
Net social security contribution	427,890	460,843	510,514	542,202	573,014	615,765	589,066	595,568
Other current transfers	88,169	107,717	105,003	102,918	113,412	181,579	159,070	160,790
<i>to general government</i>	9,972	20,108	15,048	14,436	19,322	16,757	15,269	13,995
<i>to the rest of the world</i>	78,197	87,609	89,955	88,482	94,090	164,822	143,801	146,795
Total income payable	1,083,345	1,181,213	1,236,095	1,266,545	1,336,400	1,493,876	1,414,211	1,415,193
Gross Disposable income	7,651,620	7,747,714	8,115,873	8,537,673	8,974,671	9,395,144	9,330,382	9,560,494
Final consumption expenditure	6,958,639	7,056,546	7,296,552	7,578,735	8,004,686	8,406,384	8,307,938	8,455,173
Less : Adjustment for the change in pension entitlement	131,124	134,843	135,130	144,459	149,191	153,770	118,049	103,726
Net saving	649,805	637,481	760,267	898,032	910,529	932,827	929,329	984,076
Consumption of fixed capital	174,300	188,530	194,184	205,365	208,647	209,703	211,164	224,971
Total use of gross disposable income	7,651,620	7,747,714	8,115,873	8,537,673	8,974,671	9,395,144	9,330,382	9,560,494
Per capita net disposable income (Baht)	110,664	111,187	115,946	121,109	126,847	132,517	131,195	133,962
Per capita final consumption expenditure (Baht)	102,987	103,794	106,797	110,156	115,830	121,278	119,523	121,329
Per capita net saving (Baht)	9,617	9,377	11,128	13,053	13,176	13,458	13,370	14,121
Population (1,000 Heads)	67,568	67,986	68,322	68,800	69,107	69,315	69,509	69,688

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

	(Million Baht)							
	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Domestic	4,300,943	4,533,734	4,689,364	4,845,989	5,040,726	5,245,584	5,074,759	5,118,635
Agriculture	203,083	187,482	189,600	196,631	202,856	208,436	208,106	217,015
Agriculture, forestry and fishing	203,083	187,482	189,600	196,631	202,856	208,436	208,106	217,015
Non-Agriculture	4,097,860	4,346,252	4,499,764	4,649,358	4,837,870	5,037,148	4,866,653	4,901,620
Industrial	1,273,831	1,358,017	1,387,537	1,413,015	1,468,439	1,497,751	1,418,225	1,435,562
Mining and quarrying	31,201	29,613	28,541	29,309	31,087	31,042	27,611	30,336
Manufacturing	1,148,327	1,221,541	1,250,049	1,267,083	1,312,854	1,332,154	1,271,013	1,284,679
Electricity, gas, steam and air conditioning supply	84,461	96,199	98,177	104,875	112,452	120,745	106,435	106,691
Water supply; sewerage, waste management and remediation activities	9,842	10,664	10,770	11,748	12,046	13,810	13,166	13,856
Services	2,824,029	2,988,235	3,112,227	3,236,343	3,369,431	3,539,397	3,448,428	3,466,058
Construction	192,060	197,968	204,327	200,897	202,241	205,893	207,627	205,347
Wholesale and retail trade; repair of motor vehicles and motorcycles	407,810	426,209	449,858	474,971	489,851	522,165	510,510	508,339
Transportation and storage	151,707	164,155	171,335	182,890	191,887	203,935	167,803	158,429
Accommodation and food service activities	117,385	133,351	146,888	166,060	182,710	199,646	132,224	111,060
Information and communication	67,332	72,531	73,325	74,004	75,570	83,282	76,924	77,725
Financial and insurance activities	290,552	308,564	319,428	326,894	341,666	365,190	357,650	363,609
Real estate activities	47,849	50,086	50,840	53,029	54,713	57,435	58,615	57,248
Professional, scientific and technical activities	71,510	74,324	74,718	76,717	79,715	80,045	78,201	76,285
Administrative and support service activities	56,288	58,244	59,561	61,426	64,130	66,575	54,663	51,709
Public administration and defence; compulsory social security	596,040	626,484	653,625	678,517	705,506	732,278	760,461	780,842
Education	533,896	561,078	572,680	586,792	613,999	638,580	649,059	663,973
Human health and social work activities	223,961	242,562	259,597	275,474	286,333	300,487	312,622	331,235
Arts, entertainment and recreation	10,290	11,224	11,764	12,494	13,155	13,273	12,336	11,627
Other service activities	32,575	33,646	36,178	38,755	40,585	42,547	40,878	40,066
Activities of households as employers	24,774	27,809	28,103	27,423	27,370	28,066	28,855	28,564
The rest of the world	22,597	20,435	22,027	9,263	3,423	-75,322	-70,418	-59,102
Receive	61,988	69,638	78,732	69,943	68,310	36,434	32,241	36,369
Payment	39,391	49,203	56,705	60,680	64,887	111,756	102,659	95,471
Total	4,323,540	4,554,169	4,711,391	4,855,252	5,044,149	5,170,262	5,004,341	5,059,533

Table 55 Households and NPISHs mixed income and operating surplus

(Million Baht)

	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Farm income	817,123	738,530	751,775	782,799	809,540	824,700	822,069	847,503
Other	1,774,509	1,759,035	1,989,832	2,187,360	2,328,028	2,593,471	2,276,842	2,128,928
Total	2,591,632	2,497,565	2,741,607	2,970,159	3,137,568	3,418,171	3,098,911	2,976,431

Table 56 Households and NPISHs property income receivable

(Million Baht)

	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Rent	83,028	81,050	81,941	81,975	84,906	86,531	88,704	89,881
Actual rent	16,271	15,880	16,051	16,053	16,626	16,945	17,253	17,482
Imputed rent	66,757	65,170	65,890	65,922	68,280	69,586	71,451	72,399
Interest	292,019	272,989	252,739	236,594	239,911	256,541	228,811	202,681
Interest paid by banks	257,180	244,766	220,082	208,606	208,751	222,234	196,745	169,611
Government bond interest	18,547	12,592	13,095	7,456	9,120	8,149	8,136	9,686
Interest received from the rest of the world	117	306	591	959	1,641	4,113	2,875	2,850
Others	16,175	15,325	18,971	19,573	20,399	22,045	21,055	20,534
Distributed income of corporations	491,414	561,602	539,754	533,305	580,027	595,898	544,836	601,538
Dividends from private corporations	425,617	491,033	460,236	445,691	487,100	498,972	455,781	507,418
Dividends from cooperatives	58,197	62,725	69,151	74,817	80,259	83,924	82,883	83,462
Dividends from public corporations	7,600	7,844	10,367	12,797	12,668	13,002	6,172	10,658
Investment income disbursements	155,102	163,185	173,698	184,944	198,072	210,150	224,484	214,464
Beneficiaries from provident fund	21,884	21,344	19,189	18,537	19,105	20,487	16,622	13,949
Beneficiaries from government pension fund	21,145	22,220	21,851	21,793	23,068	23,733	23,507	24,346
Investment income payable on pension entitlement ^{1/}	37,733	39,967	43,406	45,382	47,538	49,721	45,847	47,724
Investment income attributable to insurances policy holder	74,340	79,654	89,252	99,232	108,361	116,209	138,508	128,445
Total	1,021,563	1,078,826	1,048,132	1,036,818	1,102,916	1,149,120	1,086,835	1,108,564

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

Table 57 Household and NPISHs property income payable

(Million Baht)

	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Interest	230,757	241,430	237,901	247,778	260,706	277,875	264,222	265,024
Interest paid to banks	137,291	135,542	128,885	131,835	139,581	154,636	142,066	141,384
Pawnshop interest	6,441	6,298	6,515	6,841	6,718	6,270	6,060	5,606
Interest on loan from life insurance policy	1,043	1,137	1,201	1,344	1,521	1,736	1,710	1,617
Interest paid to cooperatives	81,834	93,061	94,874	99,749	105,234	107,928	106,973	108,133
Interest paid to the rest of the world	363	433	536	520	495	476	358	648
Others	3,785	4,959	5,890	7,489	7,157	6,829	7,055	7,636
Rent	83,028	81,050	81,941	81,975	84,906	86,531	88,704	89,881
Total	313,785	322,480	319,842	329,753	345,612	364,406	352,926	354,905

Table 58 Saving of corporations

	(Million Baht)							
	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Saving of private corporation	834,008	792,651	1,066,605	1,325,151	1,360,048	1,381,697	1,311,582	1,475,201
Saving of public corporation and government enterprises	89,211	125,332	209,422	236,928	203,794	253,247	181,668	236,826
Saving of cooperatives	7,122	10,081	10,880	11,302	11,323	12,383	9,806	10,669
Total	930,341	928,064	1,286,907	1,573,381	1,575,165	1,647,327	1,503,056	1,722,696

Table 59 Corporate transfer payments received by household and NPISHs

	(Million Baht)							
	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Transfer from private corporation	18,913	20,152	20,835	20,682	22,226	21,275	20,194	23,558
Transfer from public corporation and government enterprises	2,312	3,241	1,982	2,451	2,583	2,990	1,779	1,378
Transfer from cooperatives	434	1,170	505	547	1,018	1,575	1,867	2,201
Total	21,659	24,563	23,322	23,680	25,827	25,840	23,840	27,137

Table 60 Taxes

	(Million Baht)							
	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Taxes								
Current taxes on income, wealth, etc.	915,579	944,041	945,045	940,953	1,053,244	1,082,561	947,094	974,647
Taxes on income	881,447	906,322	908,726	897,742	1,004,085	1,032,703	897,523	924,991
From corporation	642,468	632,293	623,236	622,758	717,834	717,422	601,777	639,000
From households	238,979	274,029	285,490	274,984	286,251	315,281	295,746	285,991
Other current taxes	34,132	37,719	36,319	43,211	49,159	49,858	49,571	49,656
From corporation	19,610	21,575	21,073	26,523	31,048	33,013	32,168	31,717
From households	14,522	16,144	15,246	16,688	18,111	16,845	17,403	17,939
Taxes on production and imports	1,391,975	1,473,579	1,521,872	1,588,125	1,712,869	1,745,260	1,525,908	1,562,695
Taxes on products	1,303,157	1,388,433	1,422,778	1,489,791	1,607,673	1,640,638	1,464,749	1,501,560
Value added type taxes (VAT) ^{1/}	531,117	556,442	557,872	594,433	637,347	643,313	599,416	620,949
Taxes and duties on imports excluding VAT	179,553	185,550	194,093	206,278	212,773	217,757	158,465	167,511
Import duties	108,770	112,322	103,471	103,506	107,067	104,008	90,708	102,067
Taxes on imports excluding VAT and duties	70,783	73,228	90,622	102,772	105,706	113,749	67,757	65,444
Export taxes	305	189	83	103	170	202	158	237
Taxes on products except VAT, import and export taxes	592,182	646,252	670,730	688,977	757,383	779,366	706,710	712,863
Other taxes on production	88,818	85,146	99,094	98,334	105,196	104,622	61,159	61,135
Total taxes	2,307,554	2,417,620	2,466,917	2,529,078	2,766,113	2,827,821	2,473,002	2,537,342
Subsidies								
Subsidies on products	94,370	43,304	44,183	37,497	43,835	35,076	54,872	96,129
Import subsidies	3,674	816	962	1,272	1,742	944	1,766	3,650
Export subsidies	9,005	9,364	8,987	7,912	9,293	8,294	6,646	6,366
Other subsidies on products	81,691	33,124	34,234	28,313	32,800	25,838	46,460	86,113
Other subsidies on production	27,484	26,635	24,147	24,160	24,752	24,651	28,406	29,142
Total subsidies	121,854	69,939	68,330	61,657	68,587	59,727	83,278	125,271
Total taxes on production and imports less subsidies	1,270,121	1,403,640	1,453,542	1,526,468	1,644,282	1,685,533	1,442,630	1,437,424

Note : ^{1/} VAT originated from 1992

Table 61 Social contributions and social transfers

(Million Baht)

	2014	2015	2016	2017	2018r	2019r	2020r	2021p
Social contributions	427,890	460,843	510,514	542,202	573,014	615,765	589,066	595,568
Employers' actual social contributions ^{1/}	74,522	77,823	80,297	84,466	87,621	92,019	70,063	58,263
Employers' imputed social contributions	227,205	252,867	294,198	316,394	335,134	365,699	388,563	409,677
Households' actual social contributions ^{1/}	88,430	90,186	92,613	95,960	102,721	108,326	84,593	79,904
Households' social contributions supplements ^{1/}	37,733	39,967	43,406	45,382	47,538	49,721	45,847	47,724
Social benefits other than social transfers in kind	346,702	377,027	421,938	459,179	526,108	578,218	652,140	677,768
Social security benefits in cash ^{1/}	30,159	31,332	36,394	38,769	45,333	51,242	87,141	81,170
Other social insurance benefits	227,205	252,867	294,198	316,394	335,134	365,699	388,563	409,677
Social assistance benefits in cash	89,338	92,828	91,346	104,016	145,641	161,277	176,436	186,921
Social transfers in kind	1,096,910	1,148,884	1,211,288	1,254,859	1,304,166	1,344,888	1,398,007	1,549,248
Social transfers in kind - non-market production	852,780	905,607	951,068	984,792	1,036,005	1,065,756	1,114,947	1,158,971
Social transfers in kind - purchased market production	244,130	243,277	260,220	270,067	268,161	279,132	283,060	390,277
Social security benefits, reimbursements ^{1/}	3,739	5,052	5,847	6,329	5,568	7,192	7,796	7,673
Other social security benefits in kind ^{1/}	31,625	37,253	40,888	43,075	45,428	49,907	52,687	83,142
Social assistance benefits in kind	208,766	200,972	213,485	220,663	217,165	222,033	222,577	299,462

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

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ตาราง / Tables	ผู้ประสานงาน / Coordinators	e-mail address	ต่อ / Ext. No.
Main Accounts			
Account 1. Production account	Jaruwan Poolsuk	jaruwan@nesdc.go.th	6514
	Peeranat Dangskul	peeranat@nesdc.go.th	6521
Account 2. Generation of income account	Thanapat Suntivong	thanapat@nesdc.go.th	6513
	Jaruwan Poolsuk	jaruwan@nesdc.go.th	6514
Account 3. Allocation of primary income account	Jaruwan Poolsuk	jaruwan@nesdc.go.th	6514
	Santi Srisomboon	santi@nesdc.go.th	6526
Account 4. Secondary distribution of income account	Jaruwan Poolsuk	jaruwan@nesdc.go.th	6514
Account 5. Use of disposable income account	Phirunthip Sukneongbung	phirunthip@nesdc.go.th	6505
	Jaruwan Poolsuk	jaruwan@nesdc.go.th	6514
Account 6. Redistribution of income in kind account	Jaruwan Poolsuk	jaruwan@nesdc.go.th	6514
Account 7. Use of adjusted disposable income account	Jaruwan Poolsuk	jaruwan@nesdc.go.th	6514
Account 8. External income account	Santi Srisomboon	santi@nesdc.go.th	6526
Gross Domestic Product, Chain Volume Measures			
Table 1 - 2.3	Peeranat Dangskul	peeranat@nesdc.go.th	6521
Change in Inventories	Pirachat Panngam	Pirachat@nesdc.go.th	6529
Gross Domestic Product (Production)			
Table 3, 5.3, 28-29.2	Peeranat Dangskul	peeranat@nesdc.go.th	6521
Table 4	Jaruwan Poolsuk	jaruwan@nesdc.go.th	6514
Table 6 - 7.2, 14-15.2, 34-35.2	Peeranat Dangskul	peeranat@nesdc.go.th	6521
Table 8 - 9.2, 20-21.2, 24-25.2, 30-31.2	Nathicha Singnoi	nathicha@nesdc.go.th	6527
Table 10 - 11.2, 18-19.2	Mattanee Phumklai	mattanee@nesdc.go.th	6523
Table 12 - 13.2, 22-23.2, 32-33.2, 36-37.2	Nuttakorn Ajchariyasakunchai	Nuttakorn@nesdc.go.th	6535
Table 16 - 17.2	Jindarat Shibue	jindarat-s@nesdc.go.th	6509
Table 26 - 27.2	Udomsuk Khieopong	udomsuk@nesdc.go.th	6506
Gross Domestic Product (Expenditure)			
<i>Private final consumption expenditure</i>			
Table 38 - 41.2	Phirunthip Sukneongbung	phirunthip@nesdc.go.th	6505
	Kittisak Sirikhun	kittisak-s@nesdc.go.th	6538
<i>General government final consumption expenditure</i>			
Table 42 - 43.2	Jaruwan Poolsuk	jaruwan@nesdc.go.th	6514
Capital formation			
Table 44 - 49.2	Jindarat Shibue	jindarat-s@nesdc.go.th	6509
	Jaruwan Poolsuk	jaruwan@nesdc.go.th	6514
	Supaporn Wareerat	supaporn_c@nesdc.go.th	6510
National Income			
Table 50 - 51	Santi Srisomboon	santi@nesdc.go.th	6526
	Kullatree Kitjaruwong	kullatree@nesdc.go.th	6524
Table 52	Jaruwan Poolsuk	jaruwan@nesdc.go.th	6514
Table 53 - 54	Santi Srisomboon	santi@nesdc.go.th	6526
	Kullatree Kitjaruwong	kullatree@nesdc.go.th	6524
Table 55 - 59	Santi Srisomboon	santi@nesdc.go.th	6526
Table 60 - 61	Jaruwan Poolsuk	jaruwan@nesdc.go.th	6514



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