



รายได้ประชาชาติของประเทศไทย พ.ศ. ๒๕๖๕  
แบบปริมาณลูกโซ่  
National Income of Thailand 2022  
Chain Volume Measures

สำนักงานสภาพัฒนาการเศรษฐกิจและสังคมแห่งชาติ  
Office of the National Economic and Social Development Council

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## 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 2022 edition, following the International System of National Accounts (SNA), is compiled using the chained volume measures (CVMs) in measuring the real terms. In this 2022 edition, data are revised back to 2020 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 2020. 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 2020 and 2021 according to the Agricultural Statistics of Thailand 2022 from the Office of Agricultural Economics, and amended fishery figures back to 2020 and 2021 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 2020 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.
- Electricity and water supply: revised data for the electricity and water supply back to 2020.
- Construction sector: revised the construction data of public and private sectors back to 2020.
- Wholesale and retail; trade and repair of motor vehicles and motorcycle: revised data back to 2020 due to updated production data of manufacturing and agriculture sectors.
- Transportation and storage: revised data back to 2020 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 2020.
- Information and communication: revised data back to 2020 in accordance with updated telecommunications business data.
- Financial and insurance activities: revised data back to 2020 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 2020 according to relevant data sources.
- Gross fixed capital formation expenditure: revised the machinery and equipment data back to 2020 according to the latest report; and the public construction data back to 2021.
- Change in inventories: revised data back to 2020 according to relevant data sources.
- Exports and Imports merchandise and services: revised back to 2020, in accordance with the updated balance of payments from the Bank of Thailand.
- 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 2022, measured by the Gross Domestic Product (GDP), grew by 2.5%, a significant increase compared to the 1.6% growth observed in 2021. This expansion was notable in both agricultural and non-agricultural sectors. As a result, agricultural production improved moderately due to the growth in main crop production. Concurrently Non-agricultural production was uplifted by the decline in COVID-19 spread nationwide and worldwide. Additionally, the announcement by the Royal Thai Government to lift nationwide COVID-19 restrictions, in line with the country's plan to ease measures, encouraged people to get fully vaccinated since 2021. Moreover, the Thai government assured that economic stimulus would continue, consistent with entry policies that began with screening of international arrivals for domestic travel. Furthermore, the recovery in international trade was one of the important circumstances that positively affected domestic production.

Total production expanded by 2.5%, propelled by a 2.5% growth in agricultural production, particularly in main crop production, and a 2.5% increase in non-agricultural production, up from 1.5% in 2021. Industrial production increased by 0.1%, slowing down from a 3.8% expansion in 2021. Key factors included a 0.7% growth in manufacturing, decelerating from a 4.7% growth in 2021, influenced by reduced demand from major trading partners due to their economic situations. Meanwhile service sector production grew by 3.8%, accelerating from a 0.3% increase in 2021. This growth was contributed by robust performance in tourism-related sectors such as accommodation and food service activities, wholesale and retail trade, repair of motor vehicles and motorcycles, as well as, transportation and storage, etc.

Domestic demand experienced an upward trend, with private final consumption expenditure increasing by 6.2%, marking consecutive growth from 0.6% in 2021. The expansion was influenced by the easing of global and domestic COVID-19 situations, leading to the relaxation of travel restrictions by several countries, including Thailand in the middle of 2022. This contributed to a positive adjustment in the tourism sector, as evidenced by the continually increasing number of tourists. Additionally, general government final consumption increased by 0.1%, decelerating from a 3.7% expansion in 2021. Gross fixed capital formation rose by 2.3%, decreasing from the 3.1% increase in 2021. Notably, private investment displayed consecutive growth since last year, while public investment decelerated. In terms of the external sector, exports and imports of goods and services grew by 6.1% and 3.6%, respectively.

National income in 2022 reached a value of 16,878,222 million baht, representing an increase of 8.0%. Sources of income included a return to labor with a value of 5,404,914 million baht, expanding by 6.7%. Additionally, a return to capital, land, and operations valued at 6,907,198 million baht expanded by 13.5%. On the contrary, taxes on production and import, less subsidies, valued at 1,436,083 million baht, decreased by 0.1%. Consumption of fixed capital valued at 3,130,027 million, expanded by 2.9% in 2022. In per capita terms, national income per capita in 2022 was 241,632 baht, up from 224,233 baht in 2021. Disposable income per capita was 137,099 baht, and consumption expenditure per capita was 135,736 baht. Consequently, per capita personal savings were valued at 2,844 baht in 2022.

For overall economic stability, gross saving decreased by 0.4%, an improvement from the fall of 1.6% in 2021, in contrast to a 4.4% increase in gross investment. Consequently, the saving-investment gap (equivalent to the current account) posted a deficit with a value of 551,308 million baht, accounting for 3.2% of GDP. However, this was lower than the deficit of 330,635 million baht in 2021.

GDP implicit price deflator increased by 4.8%, accelerating from a 1.8% rise in 2021. The expansion was contributed to by the non-agricultural price index, which rose by 4.7%, compared to a 1.8% increase in 2021. Moreover, the agricultural price index increased by 5.1%, compared to a 1.0% rise in 2021. In addition, the Consumer Price Index (CPI) and the Producer Price Index (PPI) expanded by 6.1% and 10.4%, respectively.

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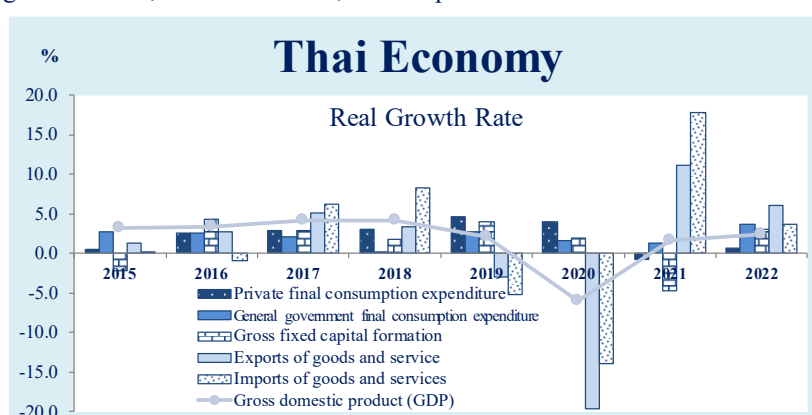
## Thai Economy in 2022 National Accounts Perspectives

### Overview

**GDP in 2022 increased by 2.5%, accelerated from 1.6% in 2021.**

**Gross Domestic Product for 2022** experienced a growth of 2.5%, marking a consecutive increase from a 1.6% rise in 2021. This expansion was particularly notable in both the agricultural and non-agricultural sectors. Specifically, agricultural production showed an improvement of 2.5%, influenced by growth in main crop production. Non-agricultural production also increased by 2.5%, up from 1.5% in 2021. The primary contributing factor to this growth was the decline in the spread of COVID-19 worldwide. This led to the expansion of non-agricultural sectors, particularly in the service sector, especially tourism-related services, which increased due to the relaxation of measures to control the spread of COVID-19, both domestically and internationally. Additionally, the Royal Thai Government has consistently implemented measures to stimulate the economy.

**Gross Domestic Product (GDP)** in 2022 at current market prices valued at 17,378,017 million baht. After deducting 499,795 million baht of net factor income from the rest of the world, Gross National Income (GNI) registered at 16,878,222 million baht, increased by 8.0%. Per capita NI was 241,632 baht, higher than 224,233 baht in 2021, or an expansion of 7.8%.



**Domestic Demand:** Private final consumption expenditure in 2022 increased by 6.2%, accelerated from 0.6% in 2021. Additionally, government final consumption expenditure increased by 0.1%, slowed down from 3.7% in 2021. Gross fixed capital formation rose by 2.3%, decelerated from 3.1% in 2021. Supporting factors included (1) the easing of government measures to control the spread of COVID-19, which significantly contributed to recovery of economic activities; (2) an increase in household income; (3) expenditure stimulus measures and a cost of living allowance contributing to higher household purchasing power; and (4) the expansion in machinery and equipment investment in the private sector.

**External Sector:** Exports of goods and services at current market prices in 2022 expanded by 19.8%, continued from 17.5% in 2021. The rise mainly contributed to a 15.3% increase in merchandise exports and a 68.3% growth in service receipts. On the import side, imports of goods and services at current market prices increased by 23.7%. In particular, merchandise imports and service payments rose by 24.8% and 18.9%, respectively. As a result, the trade and services balance at current market prices valued a deficit of 370,251 million baht, higher than the deficit of 6,478 million baht in 2021. This was attributed to a trade surplus of 465,175 million baht, compared to a surplus of 1,034,554 million baht in 2021. In contrast, services registered a deficit of 835,426 million baht, lower than the deficit of 1,041,032 million baht in 2021. However, net factor income was recorded at a deficit of 499,795 million baht. On the other hand, net current transfers recorded a surplus of 318,737 million baht. Ultimately, the current account registered a deficit of 551,309 million baht in 2022, declined from a deficit of 330,635 million baht in 2021.

**National Income (NI)** or income from factors of production in 2022 recorded the value of 16,878,222 million baht, increased by 8.0%. This expansion was propelled by the compensation of employees, constituting 32.0% of NI and experiencing a 6.7% growth. Notably, net property income and operating income, accounting for 40.9% of NI, rose by 13.5%. Moreover, consumption of fixed capital, representing 18.5% of NI, with a rise of 2.9%. In contrast, taxes on production and imports less subsidies, constituting 8.5%, recorded a decrease of 0.1%.

**Gross Domestic Savings** in 2022 registered the value of 4,284,842 million baht, reflecting a decrease of 0.4%, compared to a 1.6% drop in 2021. Consequently, overall net savings, valued at 1,505,774 million baht, increased by 6.3%, accelerated from a decline of 1.2% in 2021. This improvement was contributed by a 58.6% increase in public saving and a 21.7% increase in private saving.

**Overall Economic Stability** saving revealed a downturn, with a fall of 0.4%. Meanwhile, overall investment increased by 4.4%. As a result, the saving-investment gap (equivalent to the current account) registered a deficit of 551,308 million baht, a consecutive decline from a deficit of 330,635 million baht in 2021. The deficit accounted for 3.2% of gross domestic product.

**GDP Implicit Price Deflator** increased by 4.8%, accelerated from 1.8% in 2021. The agricultural price index grew by 5.1%, compared to 1.0% in 2021. Furthermore, the non-agricultural price index increased by 4.7%, expanded from 1.8% in 2021. The consumer price index (CPI) expanded by 6.1%, and the producer price index (PPI) rose by 10.4%.



## Gross Domestic Product

**GDP in 2022 increased by 2.5%, compared to a 1.6% decrease in 2021.**

**Gross domestic product** in 2022 increased by 2.5%, accelerated from 1.6% in 2021, propelled by both agricultural and non-agricultural sectors. Agricultural sector grew by 2.5%, driven by higher yields of main crops. Besides, non-agricultural sector rose by 2.5%, compared to a rise of 1.5% in 2021. This expansion was attributable mainly to a recovery from the global epidemic of COVID-19, high rate of COVID-19 vaccination, and relaxation of several COVID-19 restrictions in Thailand and other countries. In addition, the government also continually released various stimulus policies such as Rao Tiew Duay Kan (We Travel Together) and Khon La Khrueng (50-50 Co-payment Scheme) as well as several campaigns organized by Ministry of Tourism and Sports and private sector. Additionally, Thailand also fully reopened to tourists since the mid of 2022 which led to an improvement in the number of foreign tourist arrivals and overall economic condition.

**Agricultural production** rose by 2.5%, continually increased from 2.2% in 2021. The expansion was propelled by higher yields of main crops, including paddy, sugarcane, oil palm, and other fruits. Livestock production remained at the same level, following by increased production of cattle, buffalo, and broiler. However, swine production decreased. Freshwater fishery production still increased.

**Non-agricultural production** increased by 2.5%, higher than 1.5% in 2021. Industrial sector rose by 0.1%, decelerated from 3.8% in 2021. The slowdown was attributable to manufacturing production which grew by 0.7%, lower than 4.7% in 2021, owing to reduced external demand in response to the economic conditions of trading partners. In addition, service sector expanded by 3.8%, accelerated from 0.3% in 2021. This growth was driven by an increase in tourism-related sectors including accommodation and food service activities; wholesale and retail trade; repair of motor vehicles and motorcycles; and transportation and storage.

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

(%)

Economic activities	Real GDP growth			Structure at current prices		
	2020	2021	2022	2020	2021	2022
<b>Agriculture</b>	<b>-3.2</b>	<b>2.2</b>	<b>2.5</b>	<b>8.7</b>	<b>8.7</b>	<b>8.7</b>
Agriculture, forestry and fishing	-3.2	2.2	2.5	8.7	8.7	8.7
<b>Non-agriculture</b>	<b>-6.3</b>	<b>1.5</b>	<b>2.5</b>	<b>91.3</b>	<b>91.3</b>	<b>91.3</b>
Mining and quarrying	-9.1	-3.6	-12.3	2.1	2.2	2.2
Manufacturing	-5.3	4.7	0.7	25.6	27.2	27.1
Electricity, gas, steam and air conditioning supply	-8.0	0.3	3.4	2.5	2.5	2.9
Water supply; sewerage, waste management and remediation activities	0.7	4.5	4.5	0.4	0.4	0.4
Construction	1.3	2.2	-2.4	2.7	2.7	2.5
Wholesale and retail trade; repair of motor vehicles and motorcycles	-3.3	1.5	3.7	16.9	16.2	15.4
Transportation and storage	-22.4	-2.3	8.0	4.8	4.6	4.7
Accommodation and food service activities	-36.9	-15.0	34.5	3.9	3.2	4.3
Information and communication	1.4	5.5	5.2	2.8	2.8	2.8
Financial and insurance activities	5.3	5.6	-2.3	8.2	8.3	8.4
Real estate activities	1.5	1.6	2.3	2.7	2.7	2.6
Professional, scientific and technical activities	-4.9	-3.1	1.1	1.8	1.7	1.7
Administrative and support service activities	-21.5	-7.8	4.0	1.4	1.3	1.3
Public administration and defence; compulsory social security	1.6	0.3	-1.1	6.5	6.5	6.2
Education	1.2	0.3	1.4	4.4	4.4	4.2
Human health and social work activities	3.1	3.6	5.0	2.5	2.5	2.6
Arts, entertainment and recreation	-12.9	5.6	0.8	0.6	0.7	0.6
Other service activities	-7.9	-5.8	1.8	1.3	1.2	1.2
Activities of households as employers	2.7	-0.1	-0.5	0.2	0.2	0.2
<b>Gross domestic product, (GDP)</b>	<b>-6.1</b>	<b>1.6</b>	<b>2.5</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

## Agricultural sector

**Agricultural production grew by 2.5%. Prices of agricultural products rose by 5.1%.**

**Overall agricultural production** grew by 2.5%, after an increase of 2.2% in 2021. Production of both non-perennial crops and perennial crops rose by 3.0%. Agricultural services accelerated with a growth of 16.7%. Production of forestry and fishery decreased by 4.7% and 0.2%, orderly. Implicit prices of agricultural products grew by 5.1%, accelerated from 1.0% in 2021.

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

(%)

Sector	2020	2021	2022
<b>Agriculture, forestry and fishery growth</b>	<b>-3.2</b>	<b>2.2</b>	<b>2.5</b>
Non-perennial crops	-7.6	4.7	3.0
Perennial crops	-0.3	2.9	3.0
Livestock	5.4	-4.6	0.0
Agricultural services	-21.9	7.6	16.7
Forestry	3.2	4.1	-4.7
Fishery	2.1	-2.7	-0.2
<b>Implicit price deflator growth</b>	<b>2.5</b>	<b>1.0</b>	<b>5.1</b>

### Agriculture, forestry and fishing

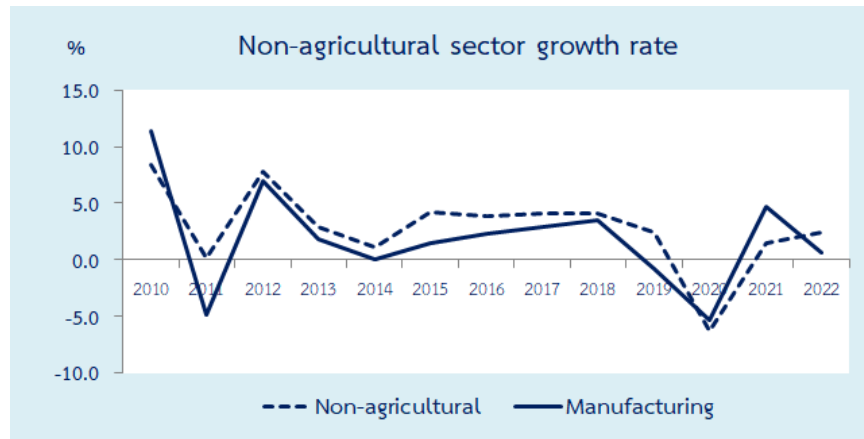
Total production expanded by 2.5%, consisted of several production activities as follows:

- **Non-perennial** grew by 3.0%, due to higher yields of main crops such as paddy and sugarcane with rise of 3.4% and 4.5%, respectively. These increases were due to higher rainfall in the first half of the year compared to 2021 and favorable weather conditions.
- **Perennial crops** increased by 3.0%, attributed to higher yields of major crops such as oil palm and other fruits which rose by 12.5% and 4.7%, respectively. However, there was a decrease in the yields of pineapple and rubber.
- **Livestock** remained consistent with the level of 2021, primarily due to increased production of cattle, buffalo, broiler, and hen's eggs. Meanwhile, swine production decreased.
- **Agricultural services** grew by 16.7%, driven by an increase in planting and harvest services corresponding to expanded planting areas.
- **Forestry** declined by 4.7%, attributed to reduced production of firewood and charcoal, along with a slowdown in logging activities and gathering of non-wood forest products.
- **Fishing** declined by 0.2%, resulted by a decline in marine fishery despite an increase in freshwater fishery.

**Implicit prices of agricultural products** grew by 5.1%, accelerated from 1.0% in 2021. The increase was attributable to higher prices of paddy, maize, oil palm, pineapple, swine, broiler and fishing products, despite a decrease in prices of other fruits.

Non-agricultural sector increased by 2.5%.

## Non-agricultural sector



### Mining and quarrying

Mining and quarrying decreased by 12.3%, followed a decrease of 3.6% in 2021. The contraction was attributable to natural gas and crude oil production which dropped by 15.9%, compared to a fall of 6.0% in 2021. This was mainly from a 19.5% decline in crude oil production, continually decreased from a 16.7% fall in 2021, in line with lower production in main sources; namely, Sirikit and others in the S1 group, Tantawan Benchamas group and Erawan group. Additionally, the natural gas and condensate production decreased by 14.7%, after a fall of 3.5% in 2021, due to lower production in main sources including Bongkot, Erawan group, and, Sirikit and others in S1 group. Similarly, the quarrying of stone, sand, and clay dropped by 1.4%, followed a decrease of 1.7% in 2021.

### Manufacturing

Manufacturing increased by 0.7%, decelerated from 4.7% in 2021. This slowdown was propelled by a decrease in external demand in response to the economic conditions of trading partners. Meanwhile, domestic demand increased. The industries with positive contributions included food products; beverages; textiles; leather and other products; chemical and chemical products; and motor vehicles.

#### *Manufacturing with an expansion*

- **Food products** increased by 3.2%, slowed down from 3.8% in 2021, due to increased consumption and tourist activities from reopening of the country, especially in processed and preserved of meat products; processed and preserved of fruit and vegetable products; tea; coffee; cocoa; vegetable oil; and animal feed. However, manufacture of bakery products declined.
- **Beverages** rose by 2.4%, rebounded from a drop of 0.5% in 2021. The manufacture of beer, water, and non-alcohol beverages increased. Meanwhile, the manufacture of alcohol decreased.
- **Textile** grew by 1.2%, improved from a drop of 2.9% in 2021. The increase was found in made-up textile, carpet, and knitted fabric.
- **Leather and other products** expanded by 29.4%, accelerated from 5.0% in 2021. The growth was propelled by higher production in every product. Additionally, exports of leather and tanned leather product as well as shoes increased.
- **Wood and products of wood** increased by 5.1%, continually rose from 2021. The growth was driven by external demand.
- **Printing** rose by 0.7%, continually expanded from 2021, due to an increase in manufacture of newspaper and magazines; as well as activities related to printing.

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

(%)

	Growth rate (real term)			Structure at current prices		
	2020	2021	2022	2020	2021	2022
Food products	-4.5	3.8	3.2	15.4	15.5	15.5
Beverages	-7.2	-0.5	2.4	7.3	6.7	6.7
Tobacco products	-2.0	-5.5	-10.7	0.8	0.7	0.6
Textiles	-17.2	-2.9	1.2	2.0	1.8	1.7
Wearing apparel	-14.9	-8.4	-0.5	2.2	1.8	1.7
Leather and related products	-18.0	5.0	29.4	1.0	1.0	1.2
Wood and products of wood and cork	4.2	4.6	5.1	1.2	1.2	1.3
Paper and paper products	3.8	1.9	-6.5	1.4	1.4	1.3
Printing and reproduction of recorded media	-7.6	0.7	0.7	0.3	0.2	0.2
Coke and refined petroleum products	-2.3	-1.7	6.3	9.3	10.4	13.2
Chemicals and chemical products	0.3	6.5	-6.0	8.5	9.1	8.6
Basic pharmaceutical products and pharmaceutical preparations	10.0	6.3	13.8	1.4	1.3	1.4
Rubber and plastics products	-7.1	3.5	-1.3	6.7	6.6	6.5
Non-metallic mineral products	-4.3	2.2	1.3	3.7	3.5	3.5
Basic metals	-4.5	21.4	-10.6	1.4	1.8	1.7
Fabricated metal products, except machinery and equipment	-2.2	4.5	0.2	3.4	3.2	3.1
Computer, electronic and optical products	0.6	6.4	-8.9	9.7	9.4	8.3
Electrical equipment	2.2	7.4	-2.1	5.2	5.1	4.8
Machinery and equipment not elsewhere classified	-0.4	5.2	-3.7	4.5	4.4	4.0
Motor vehicles, trailers and semi-trailers	-24.8	17.0	9.0	6.8	7.4	7.6
Other transport equipment	-13.7	7.1	5.3	2.4	2.2	2.2
Furniture	-0.4	23.6	-11.7	0.9	1.0	0.8
Other manufacturing	-2.5	6.8	4.8	4.2	4.1	4.2
Repair and installation of machinery and equipment	-6.1	-10.3	-0.6	0.1	0.0	0.0
<b>Total value added</b>	<b>-5.3</b>	<b>4.7</b>	<b>0.7</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

- **Coke and refined petroleum products** rose by 6.3%, responding to increase in fuel demand and recovery of economic activities, particularly for tourism sector.
- **Basic pharmaceutical products and pharmaceutical preparation** grew by 13.8%, accelerated from 6.3% in 2021. This increase was a response to heightened demand, both domestic and international.
- **Non-metallic mineral products** increased by 1.3%, decelerated from 2.2% in 2021, driven by increased manufacturing of tiles, ceramic sanitary ware, and concrete articles.
- **Fabricated metal products** rose by 0.2%, propelled by an expansion in various product types, including metal cans, steam generators, tanks, and construction metals.
- **Motor vehicles** grew by 9.0%, slowed down from 17.0% in 2021. This slowdown was driven by a decrease in the manufacturing of personal cars, commercial cars, and motor vehicle parts, in response to decelerated external demand. Meanwhile, the production of trailers and semi-trailers continued to increase.

#### *Manufacturing with a contraction*

- **Cigarette** dropped by 10.7% due to decrease in manufacture of tobacco products, and cigarettes and cigars.
- **Wearing apparel** decreased by 0.5%, improved from a drop of 8.4% in 2021, due to lower manufacture of readymade wearing apparel and textiles as well as garment accessories.
- **Paper and paper products** declined by 6.5%, in contrast to a rise of 1.9% in 2021, attributed to lower manufacture of paper and other paper articles .
- **Chemical and chemical products** fell by 6.0%, after an increase of 6.5% in 2021, due to a decrease in manufacture of fertilizers; petrochemical products and plastics resin; and soap and detergents.
- **Rubber and plastic products** decreased by 1.3%, followed an increase of 3.5% in 2021, owing to lower demand for automobile and motor vehicle tires; plastic products for construction; and plastics articles for the packaging of goods.
- **Basic metals** dropped by 10.6%, owing to a contraction in manufacture of basic iron, tin plate, galvanized sheet, and copper.
- **Computer, electronic and optical products** declined by 8.9%, compared to a rise of 6.4% in 2021. This contraction was attributable to a lower manufacture of computer and data storage devices, resulted from a high cost of production. However, manufacture of electronic components increased.
- **Electrical equipment** dropped by 2.1%, in contrast to an expansion of 7.4% in 2021, due to a decrease in the manufacture of some items such as refrigerator and washing machine. Meanwhile, manufacture of air conditioner, battery and electrical motor increased.
- **Machinery and equipment** fell by 3.7%, after an increase of 5.2% in 2021, due to lower manufacture of engines, compressors, agricultural machinery and office machinery. However, manufacture of industrial machinery expanded.
- **Furniture** contracted by 11.7% due to a decrease in manufacture of wooden and metal furniture.

### Electricity, gas and air conditioning supply

Electricity, gas, and air conditioning supply grew by 3.4%, driven by electric power generation which expanded by 4.8%, accelerated from 0.4% in 2021. The expansion of electric power generation was propelled by an increase in electricity consumption, especially in business users in response to a continual recovery of economic condition. However, the electricity consumption in residential users declined. Besides, gas separation declined by 23.5%, continually decreased from 2021.

#### Electricity and gas supply growth (real term)

(%)

Items	2020	2021	2022
Electricity	-7.9	0.4	4.8
Gas separation plant	-9.4	-6.1	-23.5
<b>Total</b>	<b>-8.0</b>	<b>0.3</b>	<b>3.4</b>

#### Electricity consumption growth and consumption structure

(%)

Items	2020	2021	2022
<b>Consumption growth</b>	<b>-3.0</b>	<b>1.9</b>	<b>3.5</b>
Residential	7.4	2.7	-1.0
Small enterprises	-5.5	-1.9	4.3
Medium enterprises	-5.1	-0.7	4.4
Large enterprises	-6.3	4.7	3.8
Special enterprises	-30.1	-15.4	31.8
Others	5.8	1.9	21.0
<b>Consumption structure</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Residential	29.0	29.3	28.0
Small enterprises	11.6	11.2	11.3
Medium enterprises	16.4	16.0	16.1
Large enterprises	38.4	39.5	39.6
Special enterprises	2.6	2.2	2.8
Others	2.0	1.8	2.3

### Water supply; sewerage, waste management and remediation activities

Water supply; sewerage, waste management and remediation activities increased by 4.5%, continually rose from 2021. This was attributable to waste collection and materials recovery activities which grew by 9.3%, after an increase of 9.0% in 2021. In addition, water collection and supply increased by 2.1%, slowed down from 2.6% in 2021.

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

(%)

Items	2020	2021	2022
Water supply	-2.7	2.6	2.1
Waste collection and Materials recovery	9.5	9.0	9.3
<b>Total</b>	<b>0.7</b>	<b>4.5</b>	<b>4.5</b>

### **Construction**

Construction decreased by 2.4%, contrasted with a 2.2% increase in 2021. The significant factor contributing to this decline was the decrease in private other construction and public non-dwelling construction and other construction. This was influenced by a reduction in disbursements from the annual budget, and loans authorized by the emergency decree issued by the Ministry of Finance to solve problems, remedy, and restore the economy and society affected by the Coronavirus disease pandemic. However, state enterprise construction continued to expand, primarily due to ongoing projects such as the electricity distribution property project, pipeline system improvement project, construction of power transmission systems project, electricity supply system project, and mineral exploration project.

### **Wholesale and retail trade; repair of motor vehicles and motorcycles**

Wholesale and retail trade, and repair of motor vehicle and motorcycles grew by 3.7%, accelerated from 1.5% in 2021, owing to acceleration in retail sales. The retailed trade was driven by accelerated private consumption expenditure as well as an improvement in tourism. In this year, the number of tourist arrivals and domestic travelling recorded higher level. Besides, sales of motor vehicles and motorcycles also increased.

### **Transportation and storage**

Transportation and storage grew by 8.0%, improved from a drop of 2.3% in 2021. The expansion was attributable to land, water, and air transport services, which rose by 4.5%, 0.2%, and 58.9%, respectively. These were attributable to an increase in freight transports, particularly in agricultural products in accordance with agricultural production. In addition, passenger transports also expanded in response to Thailand's full reopening to tourists as well as domestic travelling which was driven by government's stimulus policies to boost domestic tourism industry. Moreover, postal and courier activities rose by 4.2%, slowed down from 38.4% in 2021, in accordance with a deceleration in private operators' turnover.

### **Accommodation and food service activities**

Accommodation and food service activities grew by 34.5%, improved from a 15.0% significant drop in 2021. The recovery was attributable to improvement in both accommodation and food services with 87.2% and 23.4% increase, compared to 34.9% and 7.6% drop in 2021, respectively. In 2022, the number of foreign tourists stood at 11,065,226 people, led by Malaysian and Indian orderly while the number of foreign tourists in 2021 recorded at 427,869 people. The greater number was driven by removal of COVID-19 restrictions in both Thailand and other countries such as cancelation of Thailand Pass System as well as full country's reopening to tourists since October 1, 2022. In addition, domestic travelling also increased, boosted by government's stimulus policies, namely Rao Tiew Duay Kan (We Travel Together) and Khon La Khrueang (50-50 Co-payment Scheme), as well as several campaigns organized by Tourism Authority of Thailand and private sector.

### **Information and communication**

Information and communication expanded by 5.2%, decelerated from 5.5% in 2021. This was mainly by telecommunication activities with a rise of 4.8%, lower than 6.6% in 2021, in line with communication operators' turnover. In addition, programming and broadcasting activities declined by 0.2%, from an increase of 0.2% in 2021. However, computer programming and consultancy activities; and motion picture, video and television program production, sound recording activities grew by 7.8% and 0.4%, orderly.



### **Financial and insurance activities**

Financial and insurance activities declined by 2.3%, contrasted with a rise of 5.6% in 2021. This was a result of deceleration in loan and deposit of commercial banks and specialized financial institutions. On the other hand, net interest margin increased from heightened policy rates, while inflation rates remained high. For insurances, a decrease was from both life and non-life insurance. In particular, insurance premium decelerated, while claims increased. In addition, the performance of securities decreased, in line with brokerage fee. Credit-card business in non-banks continually expanded.

### **Real estate activities**

Real estate activities increased by 2.3%, continually rose from 1.6% in 2021. This growth resulted from real estate activities with own or leased property which grew by 2.7%. Meanwhile, real estate broker activities declined by 3.3%, after a drop of 10.4% in 2021. These were supported by economic expansion and government's stimulus policies such as relaxation of LTV regulations and reduction of transfer and mortgage fees.

### **Professional, scientific and technical activities**

Professional, scientific and technical activities grew by 1.1%, rebounded from a fall of 3.1% in 2021. The expansion was attributable to an increase in activities of head offices and management consultancy activities; advertising and market research activities; veterinary activities; and other professional, scientific and technical activities. However, legal and accounting activities; and architectural and engineering activities, technical testing and analysis declined.

### **Administrative and support services activities**

Administrative and support services activities rose by 4.0%, improved from a 7.8% drop in 2021. The improvement was attributable to a favorable expansion in recovery of travel agency, tour operator and reservation service activities in accordance with the recovery in tourism industry which supported by the higher number of Thai visitors and foreign tourist arrivals. Additionally, general cleaning of the building activities; office administrative and support activities; and other business support service activities also increased.

### **Education**

Education increased by 1.4%, compared to a rise of 0.3% in 2021. This expansion was represented by 1.1% and 5.0% increase of public and private education, orderly.

### **Human health and social work activities**

Human health and social work activities rose by 5.0%, continued from 3.6% in 2021. This was attributable to a continual expansion in human health activities which grew by 4.7%, after 3.2% in 2021, driven by increases in both public and private health. However, social work activities both with and without accommodation for the children and elderly decreased.

### **Art, entertainment and recreation**

Art, entertainment, and recreation increased by 0.8%, decelerated from 5.6% in 2021. The slowdown was driven by activities of government lottery. Additionally, botanical garden activities; and creative, arts and entertainment activities increased due to the easing of several COVID-19 restrictions. However, sports activities declined.

### **Other service activities**

Other service activities expanded by 1.8%, improved from a drop of 5.8% in 2021. The growth was from an increase in other personal service activities such as laundry service, spa and haircut and beauty salon, owing to an ease of several COVID-19 restrictions. However, membership organizations activities; and repair of computers, and personal and household goods activities decreased.

## Expenditure on Gross Domestic Product

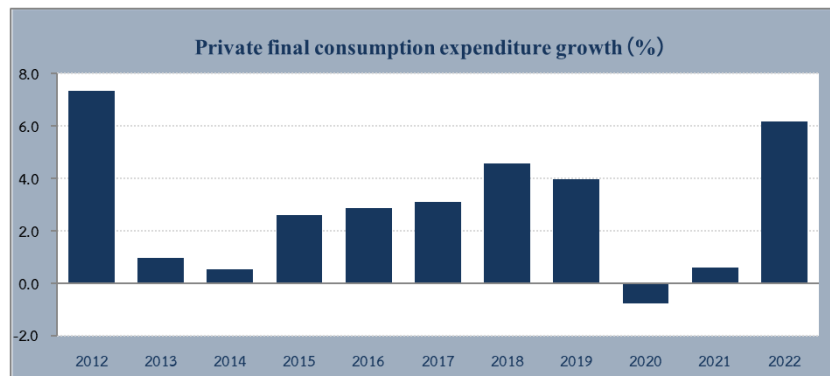
**Private final consumption expenditure in 2022 increased by 6.2%.**

## Composition of private final consumption expenditure

**Private final consumption expenditure (PFCE)** increased by 6.2%, compared to 0.6% in 2021.

Private final consumption expenditure continually expanded from 2021. The expansion was mainly from the improvement of the COVID-19 situation, which became less severe and controllable. As a result, many countries removed the measures and eased border control. Thailand relaxed the travel restriction in the middle of the year. Consequently, the tourism sector recovered which can be observed from the continual increase in the number of tourists. The result led to the positive employment effect. Therefore, the unemployment rate decreased in this year, and the household's income grew. Additionally, the government still continually implemented the measures to stimulate household's spending and to relieve the cost of living. However, the inflation rate continually increased, specially in fresh food and energy. The consumer confidence index was recorded at a low level in this year, stood at 43.9%, compared to 44.7% in 2021

Household's spending expanded in all types of goods. Spending on non-durable goods and net services expanded by 3.1% and 10.6%, continually expanded from a growth of 2.1% and 1.1% in 2021, respectively. Meanwhile, durable goods and semi-durable goods increased by 5.7% and 1.9%, compared to a drop of 4.4% and 4.9% in 2021, orderly. Durable goods were mainly driven by the expansion of purchasing of vehicle.



Private final consumption expenditure in the domestic market, excluding residents abroad, increased by 8.7%, compared to a decrease of 1.8% in 2021. An expenditure of household final consumption grew by 8.9%, compared to a decrease of 1.7% in 2021. Non-profit institutions serving households decreased by 1.7%, improved from a decrease of 5.1% in 2021.

Private final consumption expenditure in the domestic market, excluding the expenditure of non-residents in the country and the expenditure of residents abroad, expanded by 5.0%, accelerated from 0.9% in 2021. After including expenditure of residents abroad which expanded by 112.4%, accelerated from 22.1% in 2021, Private final consumption expenditure increased by 6.1%, higher than 0.6% in 2021.

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

(%)

Item	Growth rate (real term)			Structure at current prices		
	2020	2021	2022	2020	2021	2022
<b>PCE in domestic market</b>	-12.8	-1.8	8.7	102.7	100.1	102.7
less: expenditure of non-residents in the country	-80.0	-66.7	311.2	4.1	1.2	4.9
<b>PCE excluding expenditure of non-residents</b>	2.0	0.9	5.0	98.6	98.9	97.8
plus: expenditure of residents abroad	-65.5	-22.1	112.4	1.4	1.1	2.2
<b>PCE</b>	<b>-0.8</b>	<b>0.6</b>	<b>6.1</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

**PFCE Classified  
by goods and  
services items.**

**Household consumption expenditure classified by goods and services items.**

**Food and non-alcoholic beverages** expanded by 3.4%, continually rose from 3.0% in 2021. Food items expanded by 3.2%, increased at the same rate in 2021. The consumption of bread and cereals; meat; fish and sugar increased. Meanwhile, spending on non-alcoholic beverages rose by 5.0%, growing from 1.2% in 2021.

**Alcoholic beverages and tobacco** expanded by 2.0%, compared to a decrease of 1.6% in 2021. Alcoholic beverage consumption rose by 3.4% from a drop of 1.7% in 2021. Tobacco consumption decreased by 0.2% from a decrease of 1.4% in 2021.

**Clothing and footwear** increased by 2.8%, compared to a decrease of 9.1% in 2021. The expansion was from an improvement in both of clothing and footwear, which grew by 2.6%, and 4.8%, compared to a fall of 8.7%, and 12.4% in 2021, respectively.

**Housing, water, electricity, gas, and other fuels** rose by 1.4%, decelerated from 2.6% in 2021. The expansion was driven by a rental and water supply consumption for housing which rose by 2.3%, compared to 2.7% in 2021. However, expenses on electricity, gases and other fuels decreased by 0.8%, compared to a growth of 2.3% in 2021.

**Furnishing, household equipment and routine maintenance of the house** increased by 1.0%, compared to a 0.9% growth in 2021. The improvement was from household furniture; carpet and floor covering grew by 2.2%, from a drop of 1.1% in 2021. Household textiles and goods and services for routine household maintenance expanded by 0.9%, slightly decelerated from 1.1% in 2021.

**Health** expanded by 8.2%, compared to 8.3% in 2021. The expansion was attributable by expenses on hospital services and medical products which grew by 10.5% and 5.1%, decelerated from 11.1% and 6.3% in 2021, respectively. However, outpatient services grew by 10.8%, accelerated from 6.0% in 2021.

**Transport** rose by 8.8%, compared to a decrease of 6.2% in 2021. Spending on vehicle purchases, personal transport services and transport equipment grew by 12.3%, 14.4% and 3.8%, from a fall of 3.3%, 13.0% and 4.1% in 2021, respectively.

**Communication** grew by 0.2%, decelerated from a rise of 1.5% in 2021. The expansion was mainly from postal services and telephone equipment, which rose by 4.7% and 5.8%, compared to a rise of 18.2% and 8.2% in 2021, respectively. Additionally, expenses on telephone services diminished by 0.2%, compared to a rise of 0.5% in 2021.

**Recreation and culture** grew by 5.1%, compared to a drop of 2.9% in 2021. The expansion was from recreation and culture service, and recreational equipment which grew by 7.3% and 0.5%, from a drop of 18.7% and 8.1% in 2021, respectively. In addition, the spending on holiday package was increasing. Meanwhile, spending on newspapers, books, stationery decreased by 0.1%, improved from a 3.7% drop in 2021.

**Education** expanded by 1.4%, decelerated from a rise of 1.6% in 2021. Expenses on vocational education, higher education and other education expanded by 2.3%, 1.6% and 1.4%, decelerated from 2.6%, 2.5% and 2.0% in 2021, respectively. Meanwhile, expenses for pre-primary education, primary education and secondary education improved from the previous year.

#### PFCE by durability of 4 categories.

**Restaurants and hotels** grew by 67.9%, compared to a decrease of 18.6% in 2021. Expenses on restaurant and hotel services increased by 42.4% and 317.5%, compared to a 13.5% and 43.8% fall in 2021, respectively. The favorable outcome was from increased foreign travelling, and government stimulus policies for domestic travelling.

**Miscellaneous goods and services** fell by 1.0%, continually fell from a drop of 0.4% in 2021. Purchasing on financial services dropped by 3.2%, compared to a 2.4% rise in 2021. Spending on personal effects dropped by 1.7%, compared to a 7.1% decrease in 2021. However, Spending on personal care expanded 4.7%, accelerated from a rise of 4.2% in 2021.

**Non-profit institutions serving households consumption expenditure** dropped by 1.7%, improved from a decrease of 5.1% in 2021. The main factor was from spending on health services, education, and social protection and other services decreased by 1.8% and 1.5%, improved from a drop of 3.9% and 6.7% in 2021, orderly.

#### Private consumption expenditure classified by durability 4 categories

**Durable goods** expanded by 5.7%, compared to a drop of 4.4% in 2021. Purchasing on vehicles, furniture and furnishing, as well as computer equipment and software, decreased by 12.3%, 2.4% and 2.6%, compared to a drop of 3.3%, 1.5%, and 13.8% in 2021, orderly. Nevertheless, expenses on photographic and cinematographic equipment dropped by 7.6%, compared to an increase of 8.4% in 2021.

**Semi-durable goods** declined by 1.9%, compared to a drop of 4.9% in 2021. Expenses on clothing, footwear and books expanded by 2.7%, 4.8% and 2.6%, improved from a fall of 8.9%, 12.4% and 2.4% in 2021, respectively. However, recording equipment decreased from the previous year.

**Non-durable goods** increased by 3.1%, continually increased from a rise of 2.1% in 2021. Expenses on food and non-alcoholic beverages grew by 3.4%, continually grew from 3.0% in 2021. Spending on alcoholic beverages and tobacco, and water supply grew 2.0% and 1.8%, compared to a drop of 1.6% and 0.6% in 2021. However, spending on electricity declined by 0.8%, compared to a rise of 2.4% in 2021.

**Services** expanded by 10.6%, accelerated from 1.1% in 2021. The expansion was driven by expenses on restaurant and accommodation services which grew by 67.9%, compared to a drop of 18.6% in 2021. Meanwhile, expenses on transport services increased by 8.8%, improving from a drop of 6.2% in 2021. The result was from services of transport by train, road and air, which grew by 68.8%, 11.3% and 58.2%, improved from a drop of 48.8%, 13.7% and 27.5% in 2021, orderly. Nonetheless, expenses on water transport declined from the 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 (%)		
	2020	2021	2022	2020	2021	2022
<b>By purpose (COICOP)</b>						
Food and non-alcoholic beverages	2.2	3.0	3.4	27.6	27.9	26.9
Alcoholic beverages, tobacco and narcotics	-4.2	-1.6	2.0	3.3	3.3	3.0
Clothing and footwear	-18.8	-9.1	2.8	3.8	3.4	3.2
Housing, water, electricity, gas and other fuels	3.3	2.6	1.4	10.3	10.5	10.0
Furnishings, household equipment and routine maintenance of the house	-2.6	0.9	1.0	4.3	4.2	3.9
Health	6.3	8.3	8.2	5.6	6.0	5.8
Transport	-17.4	-6.2	8.8	12.6	12.5	13.4
Communications	1.1	1.5	0.2	2.3	2.3	2.1
Recreation and culture	-20.3	-2.9	5.1	5.0	4.8	4.6
Education	-1.3	1.6	1.4	1.5	1.4	1.3
Restaurants and hotels	-48.1	-18.6	67.9	10.8	8.5	14.0
Miscellaneous goods and services	-5.9	-0.4	-1.0	13.8	13.6	12.9
Individual consumption expenditure of Non-profit institutions serving households	-4.9	-5.1	-1.7	1.8	1.7	1.6
<b>plus:</b> Expenditure of residents abroad	-65.5	-22.1	112.4	1.4	1.1	2.2
<b>less:</b> Expenditure of non-residents in the country	-80.0	-66.7	311.2	4.1	1.2	4.9
<b>Private consumption expenditure</b>	<b>-0.8</b>	<b>0.6</b>	<b>6.1</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
<b>By durable appearance</b>						
Durable goods	-16.5	-4.4	5.7	8.3	7.9	7.8
Semi-durable goods	-11.8	-4.9	1.9	7.8	7.3	6.8
Non-durable goods	1.7	2.1	3.1	44.7	45.8	45.1
Services	2.9	1.0	10.6	39.2	39.0	40.3

## Composition of general government final consumption expenditure

**General government final consumption expenditure in real terms rose by 0.1%.**

**General government final consumption expenditure** at current market prices recorded a value of 3,079,832 million baht, with an increase of 4.4%, decelerated from 5.9% in 2021. Comprehensively, government compensation of employees valued at 1,687,168 million baht with an increase of 3.6%, accelerated from 2.9% in 2021. Meanwhile, purchases from enterprises and abroad registered a value of 860,716 million baht, which increased by 3.3% following a 3.1% rise in the prior year. Social transfers in kind–purchased market production recorded a value of 444,476 million baht with a rise of 11.9%, continued from 37.3% in 2021. The increase was partly attributable to increased health expenditure related to COVID-19 disease. Consumption of fixed capital recorded a value of 334,513 million baht with a 2.8% increase, from 2.3% in 2021. Moreover, purchases by households and enterprises valued at 247,041 million baht rose by 6.3%, slowed down from 10.2% in the previous year.

**By the functions of government, total general government final consumption** at current market prices composed of education services with a 27.0% share of general government final consumption expenditure. The rest of government services by function comprised a 24.7% share for health services, 13.1% share for general public services, 11.6% share for economic affairs, 9.2% share for defence, 8.2% share for public order and safety, and 6.2% share for remaining services including housing and community amenities; recreation, culture and religion; environmental; and social protection.

**General government final consumption expenditure in real terms** grew by 0.1%, decelerated from a 3.7% increase in 2021. The result came partly from a 0.1% rise in compensation of employees, slowed down from 0.4% in 2021. Social transfers in kind–purchased market production increased by 5.2%, decelerated from 34.8% in 2021. In contrast, purchases from enterprises and abroad decreased by 2.3%, from an expansion of 1.1% in 2021. In addition, consumption of fixed capital rose by 1.2%, from 0.8% in 2021. Lastly, purchases by households and enterprises increased by 0.8%, decelerated from a 7.9% rise in 2021.

## Gross capital formation

**Gross capital formation** in 2022 at current market prices recorded the value of 4,836,150 million baht, consisting of 4,059,703 million baht of gross fixed capital formation and 776,447 million baht of the change in inventories.

**In real terms, gross fixed capital formation** grew by 2.3% in 2022, slowing down from 3.1% in 2021. The main contributing factor was private investment which increased by 4.7%, accelerating from 2.9% in 2021. Meanwhile, public investment contracted by 3.9% from a 3.5% increase in 2021.

### Investment (by type of institutions)

	Value at current market prices (Million Baht)			Growth rate (real term)(%)		
	2020	2021	2022	2020	2021	2022
<b>Construction</b>	<b>1,311,650</b>	<b>1,362,067</b>	<b>1,368,566</b>	<b>1.8</b>	<b>2.3</b>	<b>-2.2</b>
Private	555,311	559,878	566,998	-2.0	-0.6	-1.5
Public	756,339	802,189	801,568	4.9	4.4	-2.7
<b>Equipment</b>	<b>2,323,718</b>	<b>2,441,161</b>	<b>2,691,137</b>	<b>-8.2</b>	<b>3.5</b>	<b>4.8</b>
Private	2,072,424	2,183,217	2,438,958	-9.7	3.8	6.2
Public	251,294	257,944	252,179	6.1	0.7	-7.5
<b>Investment</b>	<b>3,635,368</b>	<b>3,803,228</b>	<b>4,059,703</b>	<b>-4.7</b>	<b>3.1</b>	<b>2.3</b>
Private	2,627,736	2,743,095	3,005,956	-8.1	2.9	4.7
Public	1,007,632	1,060,133	1,053,747	5.2	3.5	-3.9

### Private Investment

Private investment in 2022 at current market prices recorded the value of 3,005,956 million baht, consisting of 566,998 million baht of private construction and 2,438,958 million baht of private machinery and equipment. In real terms, private investment expanded by 4.7%, accelerating from 2.9% in 2021.

### Private Investment

	Value at current market prices (Million Baht)			Growth rate (real term) (%)		
	2020	2021	2022	2020	2021	2022
<b>Construction</b>	<b>555,311</b>	<b>559,878</b>	<b>566,998</b>	<b>-2.0</b>	<b>-0.6</b>	<b>-1.5</b>
Residential	286,823	281,578	297,315	-6.7	-3.2	2.9
Non-residential	156,228	160,442	184,109	-4.5	1.0	11.4
Others	95,683	102,736	70,479	24.2	5.9	-33.1
Cost of ownership transfer	16,577	15,122	15,095	-11.9	-10.1	-4.2
<b>Machinery and equipment</b>	<b>2,072,424</b>	<b>2,183,217</b>	<b>2,438,958</b>	<b>-9.7</b>	<b>3.8</b>	<b>6.2</b>
<b>Private Investment</b>	<b>2,627,736</b>	<b>2,743,095</b>	<b>3,005,956</b>	<b>-8.2</b>	<b>2.9</b>	<b>4.7</b>



**Private construction** at current market prices recorded a value of 566,998 million baht, comprising dwelling construction at 297,315 million baht, non-dwelling construction at 184,109 million baht, and other constructions at 70,479 million baht. In real terms, private construction dropped by 1.5%, from a 0.6% decline in 2021. Other construction decreased by 33.1%, slowing down significantly from the 5.9% expansion in 2021. The cost of ownership transfer decreased by 4.2%, consistently contracting from 10.1% in 2021. On the contrary, dwelling construction increased by 2.9%, rebounding from a 3.2% drop in 2021, and non-dwelling construction grew by 11.4%, a significant improvement from the 1.0% increase in 2021.

**Private investment in equipment and machinery** at current market prices recorded a value of 2,438,958 million baht. In real terms, it expanded by 6.2%, accelerating from 3.8% in 2021. A key factor contributing to this growth was the increased investment in the transportation sector, particularly in automobiles, which increased by 10.2%, accelerating from 7.7% in 2021. This upward trend aligned with the rise in registered road vehicles, including passenger cars, buses and trucks. In contrast, other vehicles contracted by 8.2%, down from the 6.8% expansion in 2021, influenced by reduced imports of ships. Investment in machinery and equipment categories experienced a slowdown, especially in industrial machinery, which expanded by 2.2%, decelerated from 12.2% in 2021. Meanwhile, investment in office equipment continued to grow by 8.9%, from 8.7% in 2021.

#### Public Investment

Public investment at current market prices recorded the value of 1,053,747 million baht, consisting of 801,568 million baht of public construction and 252,179 million baht of public machinery and equipment. In real terms, public investment decreased by 3.9%, decelerating from a 3.5% increase in 2021. This reduction was contributed by a decrease in government investment, while state enterprise was accelerating.

#### Public Investment

	Value at current market prices (Million Baht)			Growth rate (real term)(%)		
	2020	2021	2022	2020	2021	2022
<b>Construction</b>	<b>756,338</b>	<b>802,189</b>	<b>801,568</b>	<b>4.9</b>	<b>4.4</b>	<b>-2.7</b>
Dwellings	11,695	13,806	16,311	-28.9	17.2	13.1
Non-dwellings	129,065	133,368	128,356	-2.1	0.4	-6.9
Others	615,578	655,015	656,901	7.6	5.0	-2.2
<b>Machinery and equipment</b>	<b>251,294</b>	<b>257,944</b>	<b>252,179</b>	<b>6.1</b>	<b>0.7</b>	<b>-7.5</b>
<b>Public investment</b>	<b>1,007,632</b>	<b>1,060,133</b>	<b>1,053,747</b>	<b>5.2</b>	<b>3.5</b>	<b>-3.9</b>

**Public construction** at current market prices recorded the value of 801,568 million baht, comprising dwelling 16,311 million baht, non-dwelling 128,356 million baht, and other constructions 656,901 million baht. In real terms, public construction dropped by 2.7%, compared to a 4.4% rise in 2021. This reduction was attributed in part by the government's construction projects, which decreased by 6.5%, compared to a 7.0% expansion in 2021. The decrease was partly due to a reduction in road and bridge construction. Meanwhile, state enterprise construction increased by 5.4%, accelerating from a 0.9% decrease in 2021. This growth was from ongoing projects, such as the electricity distribution property project, the pipeline system improvement project, the construction of power transmission systems, the electricity supply system project, and the mineral exploration project.



**Public investment in machinery and equipment** at current market prices recorded a value of 252,179 million baht. In real terms, public machinery and equipment decreased by 7.5%, a slowdown from 0.7% in 2021. Government machinery and equipment investment dropped by 18.5%, consistently decreasing from a fall of 2.1% in 2021. This reduction was partly influenced by a decrease in machinery and office equipment investment. Although state enterprises invested in machinery with a growth of 4.7%, a consecutive rise from 4.0% in 2021. This growth was partly from investment in machinery and packaged software.

#### Investment (by type of assets)

	Value at current market prices (Million Baht)			Growth rate (real term)(%)		
	2020	2021	2022	2020	2021	2022
<b>Tangible fixed assets</b>	<b>3,503,091</b>	<b>3,653,469</b>	<b>3,874,242</b>	<b>-5.1</b>	<b>2.7</b>	<b>1.7</b>
Dwelling	298,518	295,384	313,626	-7.9	-2.4	3.3
Non-dwelling	933,425	981,486	945,773	6.4	3.2	-5.9
Machinery and equipment	2,261,401	2,365,905	2,600,925	-8.8	3.1	4.6
Cultivated assets	9,747	10,694	13,918	-15.8	6.9	24.9
<b>Intangible fixed assets</b>	<b>115,700</b>	<b>134,636</b>	<b>170,365</b>	<b>6.8</b>	<b>16.3</b>	<b>17.7</b>
Mineral exploration	60,363	66,584	89,414	-5.2	15.2	27.9
Software	55,337	68,052	80,951	25.6	17.4	7.8
<b>Costs of ownership transfer</b>	<b>16,577</b>	<b>15,122</b>	<b>15,095</b>	<b>-11.9</b>	<b>-10.1</b>	<b>-4.2</b>
<b>Investment</b>	<b>3,635,368</b>	<b>3,803,227</b>	<b>4,059,702</b>	<b>-4.7</b>	<b>3.1</b>	<b>2.3</b>

#### Investment classified by type of assets

**Tangible fixed assets** at current market prices recorded a value of 3,874,242 million baht, consisting of 313,626 million baht in dwelling construction, 945,774 million baht in non-dwelling construction, 2,600,925 million baht in machinery and equipment, and 13,918 million baht in cultivated assets. In real terms, the investment in tangible fixed assets increased by 1.7%, decelerating from the previous year's growth of 2.7%. For individual sectors, dwelling construction increased by 3.3%, rebounding from a 2.4% decline in 2021; non-dwelling construction contracted by 5.9%, compared to a rise of 3.2% in 2021. Machinery and equipment, as well as cultivated assets, rose by 4.6% and 24.9%, respectively, accelerating from the growth of 3.1% and 6.9% in 2021.

**Intangible fixed assets** at current market prices had a value of 170,365 million baht, comprising 89,414 million baht in mineral exploration and 80,951 million baht in computer software. In real terms, the investment in intangible assets expanded by 17.7%, a consecutive increase from 16.3% in 2021, mainly driven by a surge of 27.9% in mineral exploration investment, which accelerated from 15.2% in 2021. However, the expense on computer software expanded by 7.8%, decelerating from 17.4% in 2021.

**Costs of ownership transfer** at current market prices recorded a value of 15,095 million baht. In real terms, it decreased by 4.2%, showing an improvement from the 10.1% drop in 2021.

## Change in inventories

Overall, the change in inventories at current prices increased with the value of 776,447 baht in 2022. The accumulated stock consists of agricultural products, manufacturing goods, and gold. However, the inventory of mining dropped this year. The increase in the stock level of agricultural products included paddy, rubber, and cassava. Additionally, the accumulated stock of manufacturing goods included jewelry and related articles, computers and peripheral equipment, refined petroleum products, motor vehicles and electronic components and circuit boards because of trade partners recovering from the COVID-19 outbreak leading to rising production for supporting foreign orders and domestic consumption. On the other hand, the decline in stock of manufacturing products covered household appliances, other rubber products as well as soap and detergents, cleaning and polishing preparations, perfumes and toilet preparation. Moreover, stock of gold was accumulated, due to increased imports.

## External Sectors

### Exports of goods and services expanded

## Exports of goods and services

**Exports of goods and services** at current market prices in 2022 presented value at 11,358,775 million baht, expanded by 19.8%, accelerated from 17.5% in 2021. This was from mounting value in both exports of goods and services receipts.

**Merchandise exports** at current market prices officially recorded at 9,989,604 million baht, rose by 15.3%, on account of an increase in both export agricultural and manufacturing products. Expansion in agricultural products mainly resulted from rice exports which partly due to concern of importers about food security reason in Russia – Ukraine war circumstance. As a result, rice exports recorded at 7.7 million tonne, surpassing 7.5 million tonne target set by Ministry of Commerce. Moreover, Iraq market resumed a purchase of rice from Thailand, after a halt for many years. In addition, exports of Chilled and frozen poultry cuts were positively affected by chicken's supply shortage in Malaysia. The export of fruits also favorably expanded.

Agro-industry exports increased from sugar due to Brazil, the world's largest sugar producer and exporter, diversion of production to ethanol for reaping benefits of high energy prices. In addition, India, the world's second largest sugar exporter, has implemented sugar export control, in order to curb domestic price level. Palm oil exports also extremely boosted which was the impact of Indonesia's ban on palm oil exports, for stabilizing food prices in the country. Hence, India, the world's largest palm oil importer, imported palm oil from Thailand instead. Other major manufacturing exports for instance integrated circuits, air conditioners, parts of electrical appliances, metal and machineries increased. In contrast, passenger cars exports contracted because of semiconductors shortfall.

Overall exports also favored by COVID-19 restriction measures relief in several countries together with Thai Baht depreciation and large amount of non-monetary gold exports. However, Russia-Ukraine warfare led to unavoidable hike in fuel prices, inflation and lower purchasing power in almost trading partner countries. Entire exports figure in real term grew up by 1.1%, decelerated from a 15.3% expansion in 2021, while export prices increased by 14.0%. Exports to major destinations rose such as Japan, USA, Australia, China, ASEAN and Europe.

**Service receipts** at current market prices posted value at 1,369,171 million baht, rose by 68.3%. This was principally resulted from increasing foreign tourists due to relief of lockdown and international travelling restriction. Consequently, travel and transportation receipts increased. Furthermore, other business services also expanded.

## Imports of goods and services

### Imports of goods and services increased

**Imports of goods and services** at current market prices in 2022 revealed the value of 11,729,026 million baht, increased by 23.7%, continued from a 30.8% expansion in 2021. This upturn was originated from mounting in both import of goods and service payments.

**Merchandise imports** at current market prices recorded the value of 9,524,429 million baht, scaled up by 24.8%, decelerated from 30.8% in 2021. The expansion in consumer goods principally resulted from the soaring purchasing power of households. This can be particularly seen in animals and fishery products, food beverages and dairy products, and vehicles. This growth was in line with household's consumption in relevant categories. Raw material goods increased, especially fuel, vehicle parts and integrated circuits. Capital goods imports expanded particularly in machineries and parts, keeping with an expansion of demand in machinery and equipment. Overall import of goods in volume term increased by 1.2% and import prices level increased by 23.4%.

**Service payments** at current market prices showed the value of 2,204,597 million baht, rose by 18.9%. This was mainly due to expansion of travel and transportation payments. Moreover, freight payment grew, in accordance with international trade volume. Other business service payment also stepped up.

## Trade and services balance and current account

**Increased deficit in goods and services balance.  
Deficit in current account.**

**Trade and services balance** at current market prices registered a deficit of 370,251 million baht, higher than deficit of 6,478 million baht in 2021. Trade balance showed a surplus of baht 465,175 million which less than a surplus of 1,034,554 million baht in preceding year. While, service balance presented a deficit of 835,426 million baht, better than a deficit of 1,041,032 million baht in preceding year. Primary income posted a deficit of baht 499,795 million, better than a deficit of 562,295 million baht in 2021. Secondary income presented a surplus value of 318,737 million baht, larger than a surplus in previous year. Ultimately, current account which comprise of trade and services balance, primary income and secondary income, registered a deficit of 551,309 million baht, deeper than a deficit of 330,635 million baht in 2021.

### Trade and services balance and current account at current market prices

Items	Value at current market prices (Million Baht)			Growth rate (%)		
	2020	2021	2022	2020	2021	2022
<b>Exports</b>	<b>8,064,693</b>	<b>9,478,795</b>	<b>11,358,775</b>	<b>-19.8</b>	<b>17.5</b>	<b>19.8</b>
Goods	7,099,300	8,665,055	9,989,604	-5.8	22.1	15.3
Services	965,393	813,740	1,369,171	-61.7	-15.7	68.3
<b>Imports</b>	<b>7,252,166</b>	<b>9,485,273</b>	<b>11,729,026</b>	<b>-14.4</b>	<b>30.8</b>	<b>23.7</b>
Goods	5,832,256	7,630,501	9,524,429	-13.1	30.8	24.8
Services	1,419,910	1,854,772	2,204,597	-19.6	30.6	18.9
<b>Trade and services balance</b>	<b>812,527</b>	<b>-6,478</b>	<b>-370,251</b>			
Percentage to GDP (%)	5.2	-0.0	-2.1			
<b>Primary income</b>	<b>-347,199</b>	<b>-562,295</b>	<b>-499,795</b>			
<b>Secondary income</b>	<b>189,361</b>	<b>238,138</b>	<b>318,737</b>			
<b>Current account balance</b>	<b>654,687</b>	<b>-330,635</b>	<b>-551,309</b>			
Percentage to GDP (%)	4.2	-2.0	-3.2			

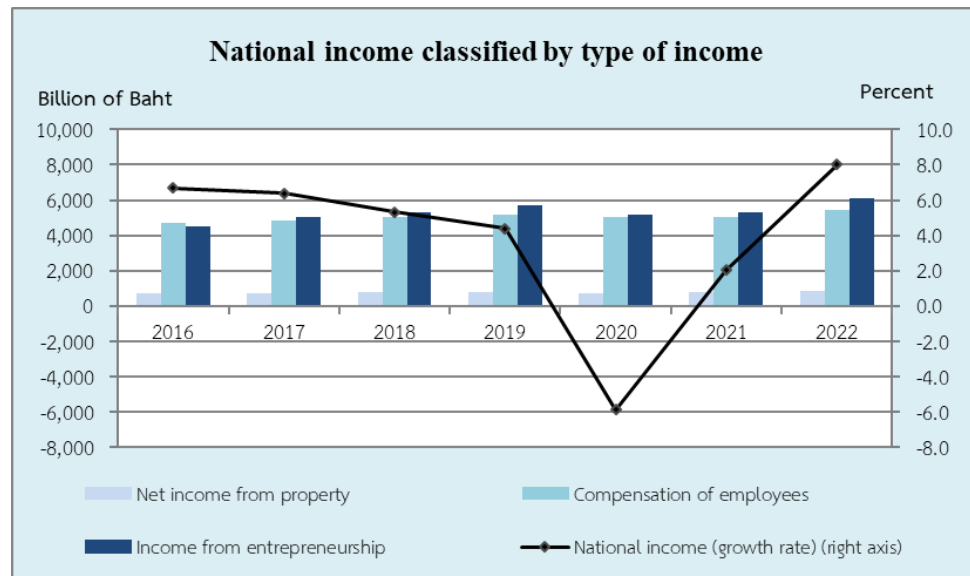
## Exchange rate

In 2022, exchange rate presented an average value at 35.1 Thai Baht per US Dollar, depreciating from 32.0 Thai Baht per U.S. Dollar in 2021.

## National income and savings

## National income

Gross National Income in 2022 recorded a value of 16,878,222 million baht, rose by 8.0%, accelerated from 2.0% in 2021. Compensation of employees, 32.0% of gross national income, expanded by 6.7%. Return on capital, land, and entrepreneurship, 40.9% of gross national income, increased by 13.5%, principally due to expansion in net return on income from property and return on entrepreneurship which grew by 8.4% and 14.3%, respectively. Consumption of fixed capital increased by 2.9%. In contrast, taxes on production and imports less subsidies declined by 0.1%, better than a 0.4% drop in previous year.



Type of income	Value at current market prices (Millions Baht)			Growth rate (%)		
	2020	2021	2022	2020	2021	2022
<b>Compensation of employees</b>	<b>5,006,559</b>	<b>5,064,442</b>	<b>5,404,914</b>	<b>-3.2</b>	<b>1.2</b>	<b>6.7</b>
<b>Income from property and entrepreneurship</b>	<b>5,890,827</b>	<b>6,083,816</b>	<b>6,907,198</b>	<b>-9.4</b>	<b>3.3</b>	<b>13.5</b>
Income from property (Net)	729,270	766,295	830,694	-9.7	5.1	8.4
• Households & Non-profit institutions	740,820	768,480	839,402	-5.6	3.7	9.2
• Government	-11,550	-2,185	-8,708	-150.4	81.1	-298.5
Income from entrepreneurship	5,161,557	5,317,521	6,076,504	-9.3	3.0	14.3
• Households & Non-profit institutions	3,098,905	2,976,431	3,356,259	-9.3	-4.0	12.8
• Corporations	2,062,652	2,341,090	2,720,245	-9.3	13.5	16.2
Taxes on production and import less subsidies	1,442,566	1,437,460	1,436,083	-14.4	-0.4	-0.1
Consumption of fixed capital	2,974,143	3,040,598	3,130,027	2.1	2.2	2.9
<b>National income</b>	<b>15,314,095</b>	<b>15,626,316</b>	<b>16,878,222</b>	<b>-5.9</b>	<b>2.0</b>	<b>8.0</b>
Population (1,000 persons)	69,509	69,688	69,851	0.3	0.3	0.2
<b>National income per capita (Baht)</b>	<b>220,318</b>	<b>224,233</b>	<b>241,632</b>	<b>-6.1</b>	<b>1.8</b>	<b>7.8</b>

## Compensation of employees

**The compensation of employees expanded by 6.7%, better than 1.2% in 2021.**

**Compensation of employees** or return on labor in 2022 presented value at 5,404,914 million baht, equivalence to 32.0% of Gross National Income (GNI), increased by 6.7%, better than 1.2% in 2021. Compensation of employees in public sector increased by 3.3%, accelerated from 2.2% in 2021. Compensation of employees in private sector grew by 8.7%, enhanced from a 0.6% expansion in 2021. On the other hand, compensation of employees can be divided into two parts as follow (1) wages and salaries increased by 6.4% and (2) employer's contribution in social security fund and other welfare, rose by 8.6%. In 2022, new minimum wage implementation reflected in 8 - 22 baht per day increase in various provinces. In other word, average whole country minimum wage rose by 5.7%. Moreover, salaries in the government sector were increased at usual rates, without special salary account adjustment. In 2022, labor force survey by the National Statistical Office (NSO) indicated total employed persons increased by 3.9%. Number of employed persons with employee status increased by 5.2%. Number of public employees grew by 4.1% while, private employees, 80.0% proportion of total employees, grew by 5.5%. An increase of employees was in line with number of compulsory insured persons (article 33) at the end of 2022 which rose by 4.5%, improved from an expansion of 0.1% in preceding year.

### Compensation of employees by economic activities

Sector	Value at current prices (Millions Baht)			Growth rate (%)		
	2020	2021	2022	2020	2021	2022
<b>Agricultural sector</b>	<b>208,107</b>	<b>217,191</b>	<b>232,513</b>	<b>-0.2</b>	<b>4.4</b>	<b>7.1</b>
Agriculture, forestry and fishing	208,107	217,191	232,513	-0.2	4.4	7.1
<b>Non-agricultural sector</b>	<b>4,868,870</b>	<b>4,906,353</b>	<b>5,202,794</b>	<b>-3.3</b>	<b>0.8</b>	<b>6.0</b>
<b>Industrial</b>	<b>1,418,137</b>	<b>1,432,681</b>	<b>1,559,821</b>	<b>-5.3</b>	<b>1.0</b>	<b>8.9</b>
Manufacturing	1,270,924	1,284,803	1,398,059	-4.6	1.1	8.8
Others	147,213	147,878	161,762	-11.1	0.5	9.4
<b>Services</b>	<b>3,450,733</b>	<b>3,473,672</b>	<b>3,642,973</b>	<b>-2.5</b>	<b>0.7</b>	<b>4.9</b>
Construction	207,623	208,257	214,507	0.8	0.3	3.0
Wholesale and retail trade; repair of motor vehicles and motorcycles	510,338	507,726	549,899	-2.3	-0.5	8.3
Transportation and storage	167,867	159,139	169,341	-17.7	-5.2	6.4
Accommodation and food service activities	132,215	110,859	148,801	-33.8	-16.2	34.2
Financial and insurance activities	359,201	366,369	362,220	-1.6	2.0	-1.1
Public administration and defence; compulsory social security	760,539	781,751	797,173	3.9	2.8	2.0
Education	650,184	664,860	689,321	1.8	2.3	3.7
Human health and social work activities	312,297	331,001	356,707	3.9	6.0	7.8
Others	350,469	343,710	355,004	-5.6	-1.9	3.3
<b>The rest of the world</b>	<b>-70,418</b>	<b>-59,102</b>	<b>-30,393</b>	<b>6.5</b>	<b>16.1</b>	<b>48.6</b>
<b>Total</b>	<b>5,006,559</b>	<b>5,064,442</b>	<b>5,404,914</b>	<b>-3.2</b>	<b>1.2</b>	<b>6.7</b>

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

#### Private sector and public sector compensation of employees

Public compensation of employees, 36.2% of total compensation of employees, increased by 3.3% better than 2.2% in 2021. Compensation of employees of government officers rose by 3.6%. Compensation of employees of state enterprises increased by 1.5%. Compensation of employees of private sector (including net compensation of employees from abroad), 63.8% share of total compensation of employees, grew by 8.7%, accelerating from 0.6% in 2021.

#### Compensation of employees by economic activities

*Compensation of employees in the agricultural sector* valued at 232,513 million baht, a 4.3% of total compensation of employees, scaled up by 7.1%, improved from 4.4% in 2021. This was partly originated from larger planting area, particularly in paddy field, and increased overall agricultural product value. In addition, average annual precipitation was also higher than normal level, resulting in higher yields of main crops. As a result, compensation of employees in the agricultural sector increased.

*Compensation of employees in the non-agricultural sector* recorded value at 5,202,794 million baht, 96.3% of total compensation of employees, increased by 6.0%, improved from a 0.8% increase in previous year. This expansion can be observed from both industrial and services activities as follows.

Compensation of employees in the industrial sector, 28.9% of total compensation of employees, expanded by 8.9%, better than 1.0% in 2021. The largest proportion in the industrial sector was manufacturing which ascended from an 1.1% expansion in 2021 to an 8.8% rise in 2022. Compensation of employees in mining and quarrying expanded by 8.0%, slightly decelerated from 9.6% in preceding year. Compensation of employees in electricity, gas, steam and air conditioning supply activities together with water supply; sewerage, waste management, and remediation activities grew up by 10.1%, and 7.1%, respectively.

Compensation of employees in the service sector, 67.4% share of total compensation of employees, lifted by 4.9%, higher than 0.7% in preceding year. Compensation of employees in human health and social work activities, education activities, and public administration and defence; and compulsory social security activities expanded by 7.8%, 3.7% and 2.0%, respectively. Such an expansion was originated from higher public compensation of employees which was significant proportion in all three activities. Compensation of employees in accommodation and food service activities, and transportation and storage activities increased by 34.2% and 6.4%, recovered from 16.2% and 5.2% fell in 2021, respectively. This growth was attributable from a higher number of tourists after COVID-19 pandemic. Compensation of employees in wholesale and retail trade; repair of motor vehicles and motorcycles activities, and construction activities built up by 8.3% and 3.0%, respectively. On the contrary, compensation of employees in financial and insurance activities reduced by 1.1% down from a 2.0% increase in previous year because of lower compensation of employees in all categories. Lower compensation of employees in financial service activities partly derived from substitution by electronic transactions in commercial bank. Lastly, compensation of employees in other services activities reveal growth at the rate of 3.3%, rebounded from a 1.9% decline in 2021.

*Net compensation of employees from the rest of the world*<sup>1</sup> recorded a deficit value at 30,393 million baht. Compensation of employees from the rest of the world registered at 32,286 million baht, less than 62,679 million baht of compensation of employees to the rest of the world.

<sup>1</sup> 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 6,907,198 million baht, equivalent to 40.9% of Gross National Income, grew up by 13.5%, better than 3.3% in 2021.

**Income from farming and households and non-profit institutions serving households (NPISHs):** gross mixed income valued at 3,356,259 million baht, a 19.9% share of Gross National Income, increased by 12.8%, improved from a 4.0% reduction in 2021. Income from farms increased by 7.8%, accelerated from a 3.1% expansion in 2021. Such an improvement was principally derived from an increase in overall agricultural production, in particular, rice, sugar cane, cassava, oil palm and pineapple together with an increase in agricultural product prices. This coupled with above average precipitation which supported main crops production. Furthermore, other mixed income also presented larger level than preceding year, following economic recovery after COVID-19 pandemic.

**Income from entrepreneurship or profit of corporations** recorded the value at 2,720,245 million baht, representing a 16.2% increase due to the expansion of both net savings of private corporations and state enterprises.

**Net income from property of households and non-profit institutions serving households (NPISHs)** valued at 839,402 million baht, increased by 9.2%, stepped up from 3.7% in 2021.

### Households and private non-profit institutions income from property

Item	Growth rate (%)			Structure (%)		
	2020	2021	2022	2020	2021	2022
<b>Income</b>						
Interest received	-8.2	-11.2	4.6	21.5	18.7	18.3
from banks	-8.4	-13.7	3.4	18.6	15.7	15.2
from others	-6.5	4.8	10.6	2.9	3.0	3.1
Dividends	-8.6	11.5	9.5	49.8	54.2	55.5
Rent	2.5	2.0	3.2	8.1	8.1	7.8
Others	6.8	-4.5	3.3	20.5	19.1	18.5
<b>Total</b>	<b>-4.8</b>	<b>2.5</b>	<b>6.9</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
<b>Expense</b>						
Interest paid	-4.9	-0.6	1.3	74.9	74.4	74.0
Rent	2.5	2.0	3.2	25.1	25.6	26.0
<b>Total</b>	<b>-3.2</b>	<b>0.0</b>	<b>1.8</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>



**Households and NPISHs property income receipt** posted value at 1,198,614 million baht, increased by 6.9%, accelerated from 2.5% in 2021. This was mainly due to an increase in interest income by 4.6%, built up from a decline of 11.2% in 2021, on account of higher interest from banks and also interest from government bond, saving cooperatives and government housing bank. Such an expansion was not only in line with an increase in average commercial bank interest rate, but also with policy rate. Investment income disbursements for example, beneficiaries from provident fund, beneficiaries from government pension fund and investment income attributable to insurances policy holder increased by 3.3%, rebounded from a 4.5% decline in previous year. Return from land (rent) for agricultural area increased by 3.2%, from 2.0% in 2021. Income from dividend expanded by 9.5%, decelerated from 11.5% in 2021. The expansion of dividends was from private corporations, commercial banks, and state enterprises.

**Households and NPISHs property income payment** posted value at 359,212 million baht, increased by 1.8%. Such an increase mainly originated from interest payment, the major item, expanded by 1.3 %, lifted up from a 0.6% decline in 2021. Increase in interest payments were reflected from major items such as interest paid to banks, cooperatives, pawnshops and mortgage due to an increase in average loan interest rate. In addition, personal consumer loan amount (loan for land, loan for dwelling and real estate, and loan for working abroad are excluded) decelerated. On the other hand, interest on loan from insurance policy holders decreased. Rent for agricultural area still expanded.

**General government income from property** decreased by 2.1%, from a rise of 13.8% 2021. Income from dividends dropped by 11.6%, comprised of dividend receivable, dividend received from income of service department; namely, the Electricity Generating Authority of Thailand (EGAT), the Provincial Electricity Authority (PEA), the Metropolitan Electricity Authority (MEA), and the Metropolitan Waterworks Authority (MWA), and other dividend income. In contrast, interest received rose by 28.2% which was partly from an increase of interest received from financial institutions. Additionally, a 7.5% increase in rental income was a result of gain in real estate rental fee and rent on natural resources.

#### General government income from property

Item	Growth rate (%)			Structure (%)		
	2020	2021	2022	2020	2021	2022
<b>Rent</b>	40.3	-2.3	7.5	6.0	5.2	5.7
<b>Interest received</b>	-7.1	-7.8	28.2	18.4	14.8	19.4
From Banks	-14.5	-6.6	23.4	13.6	11.1	14.0
From others	23.1	-10.9	42.3	4.8	3.7	5.4
<b>Dividend</b>	-25.4	26.8	-11.6	54.0	60.3	54.4
<b>Sub total</b>	<b>-18.8</b>	<b>16.5</b>	<b>-3.0</b>	<b>78.4</b>	<b>80.3</b>	<b>79.5</b>
<b>Investment income on pension entitlement</b>	-7.8	4.1	1.7	21.6	19.7	20.5
<b>Total</b>	<b>-16.6</b>	<b>13.8</b>	<b>-2.1</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

## Saving and saving - investment gap

**Gross saving** posted value at 4,284,842 million baht, decreased by 0.4%, better than a 1.6% decrease in 2021. Net saving posted value at 1,505,774 million baht, rose by 6.3%, rebounded from 1.2% decline in 2021. This growth was primarily attributable to an expansion of 17.5% in private corporation net saving, as well as an increase in net saving of public corporations and state enterprises by 26.7%, decelerating from 33.2% in 2021. Net saving of government recorded deficit value at 745,903 million baht, improved from a deficit of 1,310,329 million baht in 2021. In contrast, net saving of households and NPISHs extremely declined by 80.1%. Consumption of fixed capital registered value at 3,130,027 million baht grew up by 2.9%, accelerated from 2.2% in 2021.

### Saving and gross capital formation

Item	Value at current price (Millions Baht)			Growth rate (%)		
	2020	2021	2022	2020	2021	2022
<b>Gross capital formation</b>	<b>3,720,403</b>	<b>4,634,076</b>	<b>4,836,150</b>	<b>-7.5</b>	<b>24.6</b>	<b>4.4</b>
• Private sector	2,627,736	2,743,095	3,005,956	-7.8	4.4	9.6
• Public sector	1,007,632	1,060,133	1,053,747	4.6	5.2	-0.6
• Change in inventories	85,035	830,848	776,447			
<b>Gross saving</b>	<b>4,375,092</b>	<b>4,303,441</b>	<b>4,284,842</b>	<b>-15.9</b>	<b>-1.6</b>	<b>-0.4</b>
• Net saving	1,434,464	1,416,580	1,505,774	-41.3	-1.2	6.3
• Depreciation	2,974,143	3,040,598	3,130,027	2.1	2.2	2.9
• Discrepancy	33,515	153,737	350,959			
<b>Saving-investment gap</b>	<b>654,689</b>	<b>-330,635</b>	<b>-551,308</b>	<b>-44.6</b>	<b>-150.5</b>	<b>-66.7</b>
<b>Saving-investment gap to GDP (%)</b>	<b>4.2</b>	<b>-2.0</b>	<b>-3.2</b>			

### Private sector net savings

Private net savings comprises of Households, Non-Profit Institutions Serving Households (NPISHs), private corporations, and cooperatives presented the value of 1,948,833 million baht, experiencing a contraction of 21.7%, compared to an increase of 11.2% in 2021

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

Net savings of households and NPISHs showed value at 198,684 million baht, presented an 80.1% decline. The details are as follows.

Households and NPISHs income receive valued at 11,361,541 million baht, increased by 3.4%, from 2.3% in 2021. Primary income receipt, the principal source of income, expanded by 8.6%, accelerated from 0.2% in 2021, consists of (1) compensation of employees, 47.6% share of households and NPISHs income, increased by 6.7%, (2) property income increased by 6.9%, higher than 2.5% in 2021 (3) households and NPISHs mixed income, a 31.6% share of total income, increased by 12.1%, from 3.3% in 2021. Secondary income receipt comprises of social benefit other than social transfers in kind and other current transfers declined by 27.0%.

Primary and secondary income payment valued at 1,553,430 million baht, increased by 9.7%, from a 0.2% increase in 2021. Property income payable increased by 1.8%. Income taxes rose by 18.4%, rebounded from a 2.9% drop in 2021. Net social security contribution expanded by 9.8%. While transfer to government and rest of the world increased by 10.6%.

Households and NPISHs disposable income increased by 2.4%, decelerated from 2.6% in 2021. After deducting by private final consumption expenditure, which scaled up by the rate of 12.1%, higher than that of disposable income, and incorporated with the adjustment for the change in pension entitlement, consequently, net savings of households and NPISHs contracted by 80.1%, contrasted with a 7.0% increase in 2021. In other words, per capita net savings of households and NPISHs posted value at 2,844 baht, decreased by 80.1%.

### Personal income, expenditure and saving

Item	Value at current prices (Millions Baht)			Growth rate (%)		
	2020	2021	2022	2020	2021	2022
Personal income	10,748,017	10,990,947	11,361,541	-1.3	2.3	3.4
Personal outlay	1,413,174	1,415,535	1,553,430	-5.4	0.2	9.7
<b>Disposable personal income</b>	<b>9,334,843</b>	<b>9,575,412</b>	<b>9,808,111</b>	<b>-0.6</b>	<b>2.6</b>	<b>2.4</b>
<u>Less</u> Private consumption expenditure	8,307,940	8,455,879	9,481,327	-1.2	1.8	12.1
<u>Plus</u> Adjustment for the change in pension entitlement	117,207	103,552	103,522	-23.8	-11.7	0.0
<u>Less</u> Consumption of fixed capital	211,164	225,004	231,622			
<b>Net savings</b>	<b>932,946</b>	<b>998,081</b>	<b>198,684</b>	<b>0.0</b>	<b>7.0</b>	<b>-80.1</b>
<b>Net Disposable income per capita (Baht)</b>	<b>131,259</b>	<b>134,175</b>	<b>137,099</b>	<b>-0.9</b>	<b>2.2</b>	<b>2.2</b>
<b>Personal outlay per capita (Baht)</b>	<b>119,523</b>	<b>121,339</b>	<b>135,736</b>	<b>-1.4</b>	<b>1.5</b>	<b>11.9</b>
<b>Personal savings per capita (Baht)</b>	<b>13,422</b>	<b>14,322</b>	<b>2,844</b>	<b>-0.3</b>	<b>6.7</b>	<b>-80.1</b>

### 2) Net savings of private corporations and cooperatives

Net savings of private corporations and cooperatives valued at 1,750,149 million baht, expanded by 17.5%, better than 14.3% in 2021. Net savings of cooperatives presented value at 9,501 million baht, increased by 2.7%, rebounded from 3.3% reduction in 2021. Net savings of private corporations registered at 1,740,648 million baht, increased by 17.6%, continued from 14.4% in 2021. Such an increase partly originated from an expansion of profit in private commercial banks. Finally, net international transfer grew up from 2021.

## Net saving

Item	Value at current prices (Millions Baht)			Growth rate (%)		
	2020	2021	2022	2020	2021	2022
<b>Net savings</b>	<b>1,434,464</b>	<b>1,416,580</b>	<b>1,505,774</b>	<b>-41.3</b>	<b>-1.2</b>	<b>6.3</b>
<b>Private sector</b>	<b>2,236,251</b>	<b>2,487,798</b>	<b>1,948,833</b>	<b>-3.9</b>	<b>11.2</b>	<b>-21.7</b>
• Households	932,946	998,081	198,684	0.0	7.0	-80.1
• Corporations & cooperatives	1,303,305	1,489,717	1,750,149	-6.5	14.3	17.5
<b>Public sector</b>	<b>-801,787</b>	<b>-1,071,218</b>	<b>-443,059</b>	<b>-796.9</b>	<b>-33.6</b>	<b>58.6</b>
• Government	-981,344	-1,310,329	-745,903	-610.1	-33.5	43.1
• Enterprises	179,557	239,111	302,844	-29.1	33.2	26.7
<b>Gross saving</b>	<b>4,375,092</b>	<b>4,303,441</b>	<b>4,284,842</b>	<b>-15.9</b>	<b>-1.6</b>	<b>-0.4</b>
<b>Gross savings to GDP (%)</b>	<b>27.9</b>	<b>26.6</b>	<b>24.7</b>			

## Public sector net savings

Public net savings consisting of general government, public corporations and government enterprises presented a deficit of 443,059 million baht, better than a deficit in 2021. General government net savings recorded a deficit of 745,903 million baht, showing improvement from a deficit of 1,310,329 million baht in 2021. However, this succession of deficits has been ongoing since 2014. Net savings of public corporations and government enterprises posted a surplus at 302,844 million baht, increased by 26.7%, decelerated from 33.2% in 2021.

## 1) General government net savings

**General government net savings** recorded the deficit of 745,903 million baht in 2022, considered to be the ninth consecutive year of deficit. However, the value of deficit contracted from 1,310,329 million baht in 2021. General government revenue amounted to 4,698,120 million baht, with an increase of 4.5%. The increase was from taxes which are the primary sources of revenue, rose by 10.7%. Concurrently, government expenditure in non-investment items posted at 5,005,988 million baht, which fell by 6.9%. The value of adjustment for the change in pension entitlement posted at 103,522 million baht comparable to that of 2021, and consumption of fixed capital valued at 334,513 million baht with an increase of 2.8%. As a result, general government net saving increased by 43.1%.

A rise in general government income in 2022 came mainly from increases both in taxes on productions and imports, and current taxes on income and wealth; whereas property income dropped. Anyhow, general government income could be categorized as follows:

## General government income, expenditure and savings

Item	Value at current prices (Million Baht)			Growth rate (%)		
	2020	2021	2022	2020	2021	2022
General government income	4,331,486	4,496,195	4,698,120	-9.5	3.8	4.5
General government expenditure	2,090,762	2,426,155	1,926,156	20.7	16.0	-20.6
Disposable general government income	2,240,724	2,070,040	2,771,964	-26.7	-7.6	33.9
<u>Less</u> Final consumption expenditure	2,786,909	2,951,397	3,079,832	2.1	5.9	4.4
<u>Less</u> Adjustment for the change in pension entitlement <sup>1/</sup>	117,207	103,552	103,522	-23.8	-11.7	0.0
<u>Less</u> Consumption of fixed capital	317,952	325,420	334,513	2.5	2.3	2.8
<b>General government net savings</b>	<b>-981,344</b>	<b>-1,310,329</b>	<b>-745,903</b>	<b>-610.1</b>	<b>-33.5</b>	<b>43.1</b>

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** accounted for 35.0% of total general government revenue, rose by 5.5%. 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 VAT from imports. VAT from domestic consumption increased as economy continually recovered from the period of COVID-19 pandemic while private consumption expenditure expanded, together with increased foreign tourists. The increase was also attributable to a rise in prices of goods and services which resulted from inflation in 2022. For VAT from imports, the increase was a result of heightened value of import, incorporating with an increase in crude oil price and a depreciation of Thai Baht. (2) Import duties rose by imports of motor vehicle parts, pharmaceutical and medical goods, and cosmetics. (3) Automobile tax rose from production in car industry, and imports. This was partly attributable to increased sales from new models launch. In addition, the shortage of semiconductors was alleviated, avoiding disruption in production line. (4) Beer tax increased with higher production and imports, resulting from increased consumption. This was also partly due to an improvement of tax collection (5) Specific business tax expanded in accordance with transactions in real estate activities, and commercial banks' income. (6) Stamp duty increased from stamp duty payment by cash, stamp duty on transfer of property rights, and stamp duty on vehicle registration.

Decreases in revenue included taxes from petroleum royalty, liquor tax, and tobacco stamps. A decrease in petroleum royalty was from a reduction of diesel tax rate for reducing living expenses from high fuel prices. A decrease in liquor tax and tobacco stamps was from less consumption.

**Property income from government and investment income payable on pension entitlements** accounted for 5.0% of total government revenue, decreased by 2.1%. The contraction was driven by the income from dividend with the share of 54.4% of total government property income, decreased by 11.6%, partly contributed to dividend receivable, income from department of service; namely, EGAT, PEA, MEA and MWA, and the other dividend income. Meanwhile, other property income, namely investment income payable on pension entitlements accounted for 20.5% of total government property income, rose by 1.7%, due to a rise of dividend received (child allowance and old-age program) from the social security fund. In addition, interest income which accounted for 19.4% of total government property income, rose by 28.2%, driven by an increase of interest rate for deposit of financial institutions. Moreover, rental income which was 5.7% of total government property income, rose by 7.5%, attributed partly to a gain in real estate rental fees and rent on natural resources.

**Current taxes on income, wealth, and etc.**, accounted for 24.7% of total government revenue, which increased by 19.1%. Tax revenue increment was mainly from corporate income tax, increased by 19.3%, due partly to (1) Tax collection on net profit rose by 24.6%, from an increase in companies' profits in 2021 improving after the COVID-19 pandemic. This can be seen in the following industries; namely, automotive, trailer, and semi-trailer production, wholesale (excluding automotive and motorcycle), health and wellness, chemicals and chemical products, and automobile and motorcycle retail and wholesale. (2) Tax collection on forecasted net profit rose by 16.6%, following an improvement of first-half profit of listed companies in 2022 for the industries including coke and refined petroleum products, automotive, trailer and semi-trailer production, wholesale (excluding automotive and motorcycle), health and wellness, and food production. (3) Withholding tax collection by the private sector increased by 12.1%. This was partly due to low level of withholding tax collection in 2021. The withholding tax rate was lower from 3.0% to 1.5%, while the rates for the submission through e-Withholding Tax system were lower from 5.0% and 3.0% to 2.0%.

Personal income tax increased by 10.8%. This was partly due to tax collection on salary payments with a gain of 11.0% from higher level of employment in both public and private sectors. Withholding tax collection on salary payments of the public sector increased by 11.7%, while that of private sector increased by 3.2%. Moreover, withholding tax collection on interest received increased by 7.7%. This was partly due to withholding tax from dividend paid by listed companies and dividend or interest of directors. Meanwhile, withholding tax collections on service fees expanded by 12.1%.

Petroleum income tax collection increased by 26.3% from higher petroleum sales and increased crude oil prices, while Thai Bath depreciated.

**Social contributions**, which accounted for 14.0% of total government revenue, expanded by 9.8%. This gain was partly attributable to an increase in employers' and household's actual social contributions from higher employment, together with the resumption of usual rate of social security contribution in both private and public sectors. There was an increase in employers' imputed social contributions; namely pension, perpetuity, medical allowance, and children education allowance. Lastly, households' social contributions supplements increased also. However, employers' actual social contributions towards local administration pension fund, workmen's compensation fund, and private teacher aid fund decreased.

**Miscellaneous current transfers receivable**, which accounted for 1.1% of total government revenue, dropped by 5.6%. This reduction was mainly contributed by a drop of income from donations, government lottery office's unclaimed lottery prize and interest, and indemnification.

**Interest paid**, which accounted for 3.9% of total government expenditure, increased by 0.4%, from a rise of 10.1% in 2021. The increase was mainly from higher interest expenses on domestic debt, which grew at 2.0%, including interest expense on promissory notes for financing deficit and short-term loan interest of commercial banks. On the contrary, government bond interest paid declined. For foreign debt, the interest expense decreased by 71.3%.

**Subsidies** which accounted for 4.2% of total government expenditure, expanded by 70.4%, accelerated from a 47.9% rise in 2021. The increase was mainly from fuel subsidies, including subsidy for HSD, Gasohol E20 and E85, and LPG. Export subsidies also increased. In contrast, subsidies for agricultural products, and private education subsidy for the management of fundamental education decreased.



**Social benefits other than social transfers in kind**, which accounted for 14.2% of total government expenditure, increased by 4.7%, from a rise of 4.2% in 2021. The increase was from usual pension; perpetuity; monthly payment of perpetuities; medical expenses; children education allowance; allowance for the elderly; allowance for the disabled; child support grant; severance in case of old age pension and children's allowance. On the other hand, severance in case of unemployment and maternity decreased.

**Miscellaneous current transfers payable**, which accounted for 3.0% of total government expenditure, dropped by 76.7%. The decline was from an ease of COVID-19 pandemic, resulting in increased economic activities, allowing government to reduce stimulus measures especially related to current transfers. Remaining measures were 1) Measures to assist, remedy and compensate people affected by the spread of COVID-19 disease; included projects namely, (1) an increase of purchasing power for State Welfare Card Holders, (2) an increase of purchasing power for vulnerable groups (3) a remedy for employers and insurers under Article 33, and (4) a remedy for insurers under Article 39 and 40. 2) Measures to restore the economy and society, and to promote and to increase household and private expenditures; included projects namely, (1) "50-50 co-payment scheme" in phases 4 and 5 (during September and October 2022), (2) "Rao Tiew Duay Kan" in phase 3 (from September 24, 2021 to January 31, 2022), and (3) "Tour Travel Thai". On the contrary, there were increases in aids for victims of disasters, and cost of indemnification.

## **2) Net savings of public corporations and government enterprises**

Net savings of public corporations and government enterprises valued at 302,844 million baht, increased by 26.7%, from a rise of 33.2% in 2021. Public corporations and government enterprises net profit in business accounting figure of 2022 calendar year showed value at 291,446 million baht, fell by 54.9%. After consolidating with national accounts definition adjustment, net profit of public corporations and government enterprises in national accounts aspect before profit allocation revealed a growth of 19.1%, decelerated from 33.8% in 2021. After deducting profit allocation, comprising of profit delivered to government, and bonus payment from net profit, which increased by 7.8%, consequently, net savings of public corporations and government enterprises decelerated.

Net savings of state enterprises classified by organization establishment, public corporations net saving or performance in national accounts aspects posted at 46,071 million baht, shrank by 4.0%, sharply decelerated from 124.6% increasing in 2021. State enterprises presented net savings as 256,773 million baht, rose by 34.4%, accelerated from a rising of 20.8% in the previous year.

## **Saving – investment gap**

Gross saving registered value at 4,284,842 million baht, contracting by 0.4%, compared to a 1.6% decline in the previous year. Gross capital formation or investment registered at 4,836,150 million baht, increased by 4.4%, slowed down from 24.6% in 2021. Such gross saving and investment presented a deficit of saving-investment gap at 551,308 million baht, which deeper than a deficit of 330,635 million baht in 2021, equivalent to 3.2% deficit of GDP.

## GDP Implicit Price Deflator

**Overall price level increased by 4.8%.**

## GDP Implicit Price Deflator

**GDP Implicit Price Deflator** in 2022 increased by 4.8%, marking consecutive growth from a 1.8% rise in 2021. Agricultural price deflator increased by 5.1%, accelerating from 1.0% in 2021. Moreover, non-agricultural price deflator expanded by 4.8%, up from an increase of 1.8% in 2021. Consequently, it contributed chiefly to the growth of major activities, namely: agriculture; mining and quarrying; manufacturing, electricity; gas, steam and air conditioning supply; water supply; construction ; transportation and storage; accommodation and food service; financial and insurance activities; information and communication; education; administrative and support service activities; public administration and defense; real estate; human health and social work activities; arts, entertainment and recreation. In contrast, waste collection, treatment, and disposal activities decelerated, while wholesale and retail trade, decreased compared to 2021.

On the expenditure side, the overall price deflator rose by 3.5%, marking consecutive growth from an increase of 1.1% in 2021. Private consumption expenditure price deflator increased by 5.6%. Furthermore, the price deflator of government final consumption expenditure grew by 4.2%. The price deflator of investment also increased by 4.4%. For the external sector, the price deflator of exports goods and services expanded by 12.9%. Similarly, the price deflator imports of goods and services increased by 19.3%.

The Consumer Price Index (CPI) in 2022 increased by 6.1%, continually rising from a 0.8% increase in 2021. In particular, the Producer Price Index (PPI) grew by 10.4%, higher than a rise of 4.7% in 2021.

### Growth rate of implicit price deflator

(%)

Implicit price deflator	2018	2019	2020	2021	2022
<b>Gross domestic product, (GDP)</b>	<b>1.4</b>	<b>1.0</b>	<b>-1.3</b>	<b>1.8</b>	<b>4.8</b>
Agriculture	-2.8	3.2	2.5	1.0	5.1
Non-agriculture	1.8	0.8	-1.6	1.8	4.7
<b>Expenditure on gross domestic product</b>	<b>0.0</b>	<b>0.8</b>	<b>-0.6</b>	<b>1.1</b>	<b>3.5</b>
Private final consumption expenditure	1.0	1.0	-0.4	1.2	5.6
General government final consumption expenditure	2.2	1.5	0.7	2.2	4.2
Gross fixed capital formation	0.3	0.2	0.1	1.5	4.4
Exports of goods and services	-0.5	-2.4	-0.1	5.8	12.9
Imports of goods and services	0.6	-3.7	-2.8	10.7	23.4
<b>Consumer price index (CPI)</b>	<b>1.1</b>	<b>0.7</b>	<b>-0.8</b>	<b>1.2</b>	<b>6.1</b>
<b>Producer price index (PPI)</b>	<b>0.4</b>	<b>-1.0</b>	<b>-1.8</b>	<b>4.7</b>	<b>10.4</b>



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## ***Main Accounts***

## Account 1 Production account

(Millions of Baht)

Transactions and balancing items	2015	2016	2017	2018	2019	2020r	2021r	2022p
<b>Uses</b>								
Intermediate consumption	19,175,997	19,155,793	20,134,060	21,103,117	21,045,569	19,522,387	21,002,864	22,903,571
<b>Value added, gross / Gross domestic product</b>	<b>13,743,478</b>	<b>14,590,337</b>	<b>15,488,664</b>	<b>16,373,340</b>	<b>16,889,169</b>	<b>15,661,294</b>	<b>16,188,611</b>	<b>17,378,017</b>
Consumption of fixed capital	2,344,834	2,488,386	2,628,663	2,775,404	2,912,542	2,974,143	3,040,598	3,130,027
<b>Value added, net / Net domestic product</b>	<b>11,398,644</b>	<b>12,101,951</b>	<b>12,860,001</b>	<b>13,597,936</b>	<b>13,976,627</b>	<b>12,687,151</b>	<b>13,148,013</b>	<b>14,247,990</b>
<b>Resources</b>								
Output	31,574,346	32,367,535	34,170,430	35,912,619	36,329,176	33,773,723	35,785,777	38,905,263
Market output	29,374,925	30,074,425	31,806,964	33,442,549	33,758,880	31,154,908	33,106,198	36,138,175
Non-market output	2,199,421	2,293,110	2,363,466	2,470,070	2,570,296	2,618,815	2,679,579	2,767,088
Taxes on products	1,388,433	1,422,778	1,489,791	1,607,673	1,640,638	1,464,830	1,499,718	1,558,678
Subsidies on products (-)	43,304	44,183	37,497	43,835	35,076	54,872	94,020	182,353

## Account 2 Generation of income account

(Millions of Baht)

Transactions and balancing items	2015	2016	2017	2018	2019	2020r	2021r	2022p
<b>Uses</b>								
<b>Compensation of employees, payable</b>	<b>4,533,734</b>	<b>4,689,364</b>	<b>4,845,989</b>	<b>5,040,726</b>	<b>5,245,584</b>	<b>5,076,977</b>	<b>5,123,544</b>	<b>5,435,307</b>
Wages and salaries	4,005,633	4,119,571	4,243,272	4,405,577	4,557,016	4,395,851	4,424,161	4,675,979
Employers' social contributions	528,101	569,793	602,717	635,149	688,568	681,126	699,383	759,328
<b>Taxes on production and imports, payable</b>	<b>1,473,579</b>	<b>1,521,872</b>	<b>1,588,125</b>	<b>1,712,869</b>	<b>1,745,260</b>	<b>1,525,844</b>	<b>1,560,622</b>	<b>1,645,928</b>
Taxes on products	1,388,433	1,422,778	1,489,791	1,607,673	1,640,638	1,464,830	1,499,718	1,558,678
Other taxes on production	85,146	99,094	98,334	105,196	104,622	61,014	60,904	87,250
<b>(less) Subsidies, receivable</b>	<b>69,939</b>	<b>68,330</b>	<b>61,657</b>	<b>68,587</b>	<b>59,727</b>	<b>83,278</b>	<b>123,162</b>	<b>209,845</b>
Subsidies on products	43,304	44,183	37,497	43,835	35,076	54,872	94,020	182,353
Other subsidies on production	26,635	24,147	24,160	24,752	24,651	28,406	29,142	27,492
<b>Mixed income and operating surplus, gross</b>	<b>7,806,104</b>	<b>8,447,431</b>	<b>9,116,207</b>	<b>9,688,332</b>	<b>9,958,052</b>	<b>9,141,751</b>	<b>9,627,607</b>	<b>10,506,627</b>
Consumption of fixed capital	2,344,834	2,488,386	2,628,663	2,775,404	2,912,542	2,974,143	3,040,598	3,130,027
<b>Mixed income and operating surplus, net</b>	<b>5,461,270</b>	<b>5,959,045</b>	<b>6,487,544</b>	<b>6,912,928</b>	<b>7,045,510</b>	<b>6,167,608</b>	<b>6,587,009</b>	<b>7,376,600</b>
<b>Resources</b>								
<b>Value added, gross / Gross domestic product</b>	<b>13,743,478</b>	<b>14,590,337</b>	<b>15,488,664</b>	<b>16,373,340</b>	<b>16,889,169</b>	<b>15,661,294</b>	<b>16,188,611</b>	<b>17,378,017</b>
<b>Value added, net / Net domestic product</b>	<b>11,398,644</b>	<b>12,101,951</b>	<b>12,860,001</b>	<b>13,597,936</b>	<b>13,976,627</b>	<b>12,687,151</b>	<b>13,148,013</b>	<b>14,247,990</b>



## Account 3 Allocation of primary income account

(Millions of Baht)

Transactions and balancing items	2015	2016	2017	2018	2019	2020r	2021r	2022p
<b>Uses</b>								
Balance of primary incomes, gross								
/ National income, gross	13,034,505	13,904,972	14,794,813	15,582,085	16,268,255	15,314,095	15,626,316	16,878,222
Balance of primary incomes, net								
/ National income, net	10,689,671	11,416,586	12,166,150	12,806,681	13,355,713	12,339,952	12,585,718	13,748,195
<b>Resources</b>								
Mixed income and operating surplus, gross	7,806,104	8,447,431	9,116,207	9,688,332	9,958,052	9,141,751	9,627,607	10,506,627
Mixed income and operating surplus, net	5,461,270	5,959,045	6,487,544	6,912,928	7,045,510	6,167,608	6,587,009	7,376,600
Compensation of employees	4,554,169	4,711,391	4,855,252	5,044,149	5,170,262	5,006,559	5,064,442	5,404,914
Wages and salaries	4,026,068	4,141,598	4,252,535	4,409,000	4,481,694	4,325,433	4,365,059	4,645,586
Employers' social contributions	528,101	569,793	602,717	635,149	688,568	681,126	699,383	759,328
Taxes on production and imports	1,473,579	1,521,872	1,588,125	1,712,869	1,745,260	1,525,844	1,560,622	1,645,928
Taxes on products	1,388,433	1,422,778	1,489,791	1,607,673	1,640,638	1,464,830	1,499,718	1,558,678
Other taxes on production	85,146	99,094	98,334	105,196	104,622	61,014	60,904	87,250
(less) Subsidies	69,939	68,330	61,657	68,587	59,727	83,278	123,162	209,845
Subsidies on products	43,304	44,183	37,497	43,835	35,076	54,872	94,020	182,353
Other subsidies on production	26,635	24,147	24,160	24,752	24,651	28,406	29,142	27,492
Property income <sup>1/</sup>	-729,408	-707,392	-703,114	-794,678	-545,592	-276,781	-503,193	-469,402

Note : <sup>1/</sup> Property income receivable less property income payable

## Account 4 Secondary distribution of income account

(Millions of Baht)

Transactions and balancing items	2015	2016	2017	2018	2019	2020r	2021r	2022p
<b>Uses</b>								
<b>Current transfers</b>	<b>3,014,519</b>	<b>3,074,078</b>	<b>3,208,526</b>	<b>3,386,657</b>	<b>3,638,352</b>	<b>3,775,087</b>	<b>4,108,641</b>	<b>3,789,704</b>
<b>Current taxes on income, wealth, etc.</b>	<b>944,041</b>	<b>945,045</b>	<b>940,953</b>	<b>1,053,244</b>	<b>1,082,561</b>	<b>947,276</b>	<b>975,264</b>	<b>1,161,921</b>
Taxes on income	906,322	908,726	897,742	1,004,085	1,032,703	897,716	925,438	1,106,213
Other current taxes	37,719	36,319	43,211	49,159	49,858	49,560	49,826	55,708
<b>Social contributions</b>	<b>658,254</b>	<b>705,812</b>	<b>744,059</b>	<b>785,408</b>	<b>846,615</b>	<b>811,566</b>	<b>827,198</b>	<b>894,389</b>
Employers' actual social contributions	169,913	176,570	182,437	194,909	203,300	185,576	171,375	185,926
Employers' imputed social contributions	358,188	393,223	420,280	440,240	485,268	495,550	528,008	573,402
Households' actual social contributions <sup>1/</sup>	90,186	92,613	95,960	102,721	108,326	84,593	80,091	86,509
Households' social contributions supplements <sup>2/</sup>	39,967	43,406	45,382	47,538	49,721	45,847	47,724	48,552
<b>Social benefits other than social transfers in kind</b>	<b>377,027</b>	<b>421,938</b>	<b>459,179</b>	<b>526,108</b>	<b>578,218</b>	<b>652,269</b>	<b>679,918</b>	<b>712,201</b>
Social security benefits in cash	31,332	36,394	38,769	45,333	51,242	87,141	83,206	72,779
Other social insurance benefits	252,867	294,198	316,394	335,134	365,699	388,673	409,664	451,111
Social assistance benefits in cash	92,828	91,346	104,016	145,641	161,277	176,455	187,048	188,311
<b>Other current transfers</b>	<b>1,035,197</b>	<b>1,001,283</b>	<b>1,064,335</b>	<b>1,021,897</b>	<b>1,130,958</b>	<b>1,363,976</b>	<b>1,626,261</b>	<b>1,021,193</b>
Net non-life insurance premiums <sup>3/</sup>	200	184	251	279	296	306	364	386
Current transfer within general government	734,081	701,203	762,526	710,498	724,119	682,805	733,966	606,522
Current international cooperation	1,602	2,548	1,985	2,008	1,430	1,480	1,345	1,651
Miscellaneous current transfers	299,314	297,348	299,573	309,112	405,113	679,385	890,586	412,634
<b>Disposable income, gross</b>	<b>13,263,594</b>	<b>14,145,548</b>	<b>15,050,268</b>	<b>15,840,846</b>	<b>16,491,755</b>	<b>15,503,456</b>	<b>15,864,454</b>	<b>17,196,960</b>
<b>Disposable income, net</b>	<b>10,918,760</b>	<b>11,657,162</b>	<b>12,421,605</b>	<b>13,065,442</b>	<b>13,579,213</b>	<b>12,529,313</b>	<b>12,823,856</b>	<b>14,066,933</b>
<b>Resources</b>								
Balance of primary incomes, gross								
/ National income, gross	13,034,505	13,904,972	14,794,813	15,582,085	16,268,255	15,314,095	15,626,316	16,878,222
Balance of primary incomes, net								
/ National income, net	10,689,671	11,416,586	12,166,150	12,806,681	13,355,713	12,339,952	12,585,718	13,748,195
<b>Current transfers</b>	<b>3,243,608</b>	<b>3,314,654</b>	<b>3,463,981</b>	<b>3,645,418</b>	<b>3,861,852</b>	<b>3,964,448</b>	<b>4,346,779</b>	<b>4,108,442</b>
<b>Current taxes on income, wealth, etc.</b>	<b>944,041</b>	<b>945,045</b>	<b>940,953</b>	<b>1,053,244</b>	<b>1,082,561</b>	<b>947,276</b>	<b>975,264</b>	<b>1,161,921</b>
Taxes on income	906,322	908,726	897,742	1,004,085	1,032,703	897,716	925,438	1,106,213
Other current taxes	37,719	36,319	43,211	49,159	49,858	49,560	49,826	55,708
<b>Social contributions</b>	<b>658,254</b>	<b>705,812</b>	<b>744,059</b>	<b>785,408</b>	<b>846,615</b>	<b>811,566</b>	<b>827,198</b>	<b>894,389</b>
Employers' actual social contributions	169,913	176,570	182,437	194,909	203,300	185,576	171,375	185,926
Employers' imputed social contributions	358,188	393,223	420,280	440,240	485,268	495,550	528,008	573,402
Households' actual social contributions <sup>1/</sup>	90,186	92,613	95,960	102,721	108,326	84,593	80,091	86,509
Households' social contributions supplements <sup>2/</sup>	39,967	43,406	45,382	47,538	49,721	45,847	47,724	48,552
<b>Social benefits other than social transfers in kind</b>	<b>377,027</b>	<b>421,938</b>	<b>459,179</b>	<b>526,108</b>	<b>578,218</b>	<b>652,269</b>	<b>679,918</b>	<b>712,201</b>
Social security benefits in cash	31,332	36,394	38,769	45,333	51,242	87,141	83,206	72,779
Other social insurance benefits	252,867	294,198	316,394	335,134	365,699	388,673	409,664	451,111
Social assistance benefits in cash	92,828	91,346	104,016	145,641	161,277	176,455	187,048	188,311
<b>Other current transfers</b>	<b>1,264,286</b>	<b>1,241,859</b>	<b>1,319,790</b>	<b>1,280,658</b>	<b>1,354,458</b>	<b>1,553,337</b>	<b>1,864,399</b>	<b>1,339,931</b>
Non-life insurance claims <sup>3/</sup>	1	1	1	0	17	17	14	16
Current transfer within general government	734,081	701,203	762,526	710,498	724,119	682,805	733,966	606,522
Current international cooperation	2,190	3,009	2,572	3,180	2,673	3,255	4,509	2,166
Miscellaneous current transfers	528,014	537,646	554,691	566,980	627,649	867,260	1,125,910	731,227

Note : <sup>1/</sup> 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

<sup>2/</sup> Governmental funds consist of social security fund (In the case of child allowance and old age)<sup>3/</sup> Government only

## Account 5 Use of disposable income account

(Millions of Baht)

Transactions and balancing items	2015	2016	2017	2018	2019	2020r	2021r	2022p
<b>Uses</b>								
Final consumption expenditure	9,409,588	9,757,238	10,103,138	10,652,906	11,137,256	11,094,849	11,407,276	12,561,159
Individual consumption expenditure	8,205,430	8,507,840	8,833,595	9,308,851	9,751,272	9,708,944	10,008,995	11,141,002
Collective consumption expenditure <sup>1/</sup>	1,204,158	1,249,398	1,269,543	1,344,055	1,385,984	1,385,905	1,398,281	1,420,157
Adjustment for the change in pension entitlements	134,843	135,130	144,459	149,191	153,770	117,207	103,552	103,522
<b>Saving, gross</b>	<b>3,854,006</b>	<b>4,388,310</b>	<b>4,947,130</b>	<b>5,187,940</b>	<b>5,354,499</b>	<b>4,408,607</b>	<b>4,457,178</b>	<b>4,635,801</b>
<b>Saving, net</b>	<b>1,509,172</b>	<b>1,899,924</b>	<b>2,318,467</b>	<b>2,412,536</b>	<b>2,441,957</b>	<b>1,434,464</b>	<b>1,416,580</b>	<b>1,505,774</b>
<b>Resources</b>								
Disposable income, gross <sup>1/</sup>	13,263,594	14,145,548	15,050,268	15,840,846	16,491,755	15,503,456	15,864,454	17,196,960
Disposable income, net	10,918,760	11,657,162	12,421,605	13,065,442	13,579,213	12,529,313	12,823,856	14,066,933
Adjustment for the change in pension entitlements	134,843	135,130	144,459	149,191	153,770	117,207	103,552	103,522

Note : <sup>1/</sup> 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	2015	2016	2017	2018	2019	2020r	2021r	2022p
<b>Uses</b>								
<b>Social transfers in kind</b>	<b>1,148,884</b>	<b>1,211,288</b>	<b>1,254,859</b>	<b>1,304,166</b>	<b>1,344,888</b>	<b>1,401,003</b>	<b>1,553,116</b>	<b>1,659,675</b>
Social transfers in kind - non-market production	905,607	951,068	984,792	1,036,005	1,065,756	1,111,745	1,155,923	1,215,200
Social transfers in kind - purchased market production	243,277	260,220	270,067	268,161	279,132	289,258	397,193	444,475
<b>Adjusted disposable income, gross</b>	<b>13,263,594</b>	<b>14,145,548</b>	<b>15,050,268</b>	<b>15,840,846</b>	<b>16,491,755</b>	<b>15,503,456</b>	<b>15,864,454</b>	<b>17,196,960</b>
<b>Adjusted disposable income, net</b>	<b>10,918,760</b>	<b>11,657,162</b>	<b>12,421,605</b>	<b>13,065,442</b>	<b>13,579,213</b>	<b>12,529,313</b>	<b>12,823,856</b>	<b>14,066,933</b>
<b>Resources</b>								
Disposable income, gross	13,263,594	14,145,548	15,050,268	15,840,846	16,491,755	15,503,456	15,864,454	17,196,960
Disposable income, net	10,918,760	11,657,162	12,421,605	13,065,442	13,579,213	12,529,313	12,823,856	14,066,933
Social transfers in kind	1,148,884	1,211,288	1,254,859	1,304,166	1,344,888	1,401,003	1,553,116	1,659,675
Social transfers in kind - non-market production	905,607	951,068	984,792	1,036,005	1,065,756	1,111,745	1,155,923	1,215,200
Social transfers in kind - purchased market production	243,277	260,220	270,067	268,161	279,132	289,258	397,193	444,475

## Account 7 Use of adjusted disposable income account

(Million Baht)

Transactions and balancing items	2015	2016	2017	2018	2019	2020r	2021r	2022p
<b>Uses</b>								
Actual final consumption	9,409,588	9,757,238	10,103,138	10,652,906	11,137,256	11,094,849	11,407,276	12,561,159
Actual individual consumption	8,205,430	8,507,840	8,833,595	9,308,851	9,751,272	9,708,944	10,008,995	11,141,002
Actual collective consumption	1,204,158	1,249,398	1,269,543	1,344,055	1,385,984	1,385,905	1,398,281	1,420,157
Adjustment for the change in pension entitlements	134,843	135,130	144,459	149,191	153,770	117,207	103,552	103,522
<b>Saving, gross</b>	<b>3,854,006</b>	<b>4,388,310</b>	<b>4,947,130</b>	<b>5,187,940</b>	<b>5,354,499</b>	<b>4,408,607</b>	<b>4,457,178</b>	<b>4,635,801</b>
<b>Saving, net</b>	<b>1,509,172</b>	<b>1,899,924</b>	<b>2,318,467</b>	<b>2,412,536</b>	<b>2,441,957</b>	<b>1,434,464</b>	<b>1,416,580</b>	<b>1,505,774</b>
<b>Resources</b>								
Adjusted disposable income, gross	13,263,594	14,145,548	15,050,268	15,840,846	16,491,755	15,503,456	15,864,454	17,196,960
Adjusted disposable income, net	10,918,760	11,657,162	12,421,605	13,065,442	13,579,213	12,529,313	12,823,856	14,066,933
Adjustment for the change in pension entitlements	134,843	135,130	144,459	149,191	153,770	117,207	103,552	103,522

## Account 8 External income account

(Millions of Baht)

Transactions and balancing items	2015	2016	2017	2018	2019	2020r	2021r	2022p
<b>Income of non-residents</b>								
Import of goods and services	7,861,679	7,806,464	8,397,737	9,169,690	8,473,402	7,252,166	9,485,273	11,729,026
<i>Import of goods</i>	6,407,028	6,270,835	6,815,779	7,394,423	6,707,886	5,832,256	7,630,501	9,524,429
<i>Import of services</i>	1,454,651	1,535,629	1,581,958	1,775,267	1,765,516	1,419,910	1,854,772	2,204,597
Primary income receivable by non-residents	875,532	913,155	982,533	1,073,374	965,696	728,048	1,035,877	1,031,762
<i>Compensation of employees</i>	49,203	56,705	60,680	64,887	111,756	102,659	95,471	62,679
<i>Property income</i>	826,329	856,450	921,853	1,008,487	853,940	625,389	940,406	969,083
Secondary income receivable by non-residents	129,363	133,111	123,024	122,168	192,501	158,660	163,635	181,760
Other current transfer	129,363	133,111	123,024	122,168	192,501	158,660	163,635	181,760
<i>Public</i>	1,602	2,548	1,985	2,008	1,430	1,480	1,345	1,651
<i>Private</i>	127,761	130,563	121,039	120,160	191,071	157,180	162,290	180,109
<b>Use of income by non-residents</b>								
Export of goods and services	9,295,635	9,785,869	10,326,731	10,616,163	10,052,248	8,064,693	9,478,795	11,358,775
<i>Export of goods</i>	7,308,359	7,533,353	7,920,724	8,114,859	7,534,817	7,099,300	8,665,055	9,989,604
<i>Export of services</i>	1,987,276	2,252,516	2,406,007	2,501,304	2,517,431	965,393	813,740	1,369,171
Primary income payable by non-residents	166,559	227,790	288,682	282,119	344,782	380,849	473,582	531,967
<i>Compensation of employees</i>	69,638	78,732	69,943	68,310	36,434	32,241	36,369	32,286
<i>Property income</i>	96,921	149,058	218,739	213,809	308,348	348,608	437,213	499,681
Secondary income payable by non-residents	358,452	373,687	378,479	380,929	416,001	348,021	401,773	500,498
Other current transfer	358,452	373,687	378,479	380,929	416,001	348,021	401,773	500,498
<i>Public</i>	2,190	3,009	2,572	3,180	2,673	3,255	4,509	2,166
<i>Private</i>	356,262	370,678	375,907	377,749	413,328	344,766	397,264	498,332
<b>Balance on external income account</b>	<b>-954,072</b>	<b>-1,534,616</b>	<b>-1,490,598</b>	<b>-913,979</b>	<b>-1,181,432</b>	<b>-654,689</b>	<b>330,635</b>	<b>551,308</b>

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

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

	(Millions of Baht)							
	2015	2016	2017	2018	2019	2020r	2021r	2022p
Private final consumption expenditure	7,056,546	7,296,552	7,578,735	8,004,686	8,406,384	8,307,940	8,455,879	9,481,327
General government final consumption expenditure	2,353,042	2,460,686	2,524,403	2,648,220	2,730,872	2,786,909	2,951,397	3,079,832
Gross fixed capital formation	3,371,069	3,459,901	3,579,177	3,730,869	3,812,385	3,635,368	3,803,228	4,059,703
Change in inventories	-298,624	-380,535	-26,962	398,424	209,730	85,035	830,848	776,447
Plus : Exports of goods and services	9,295,635	9,785,869	10,326,731	10,616,163	10,052,248	8,064,693	9,478,795	11,358,775
<i>Exports of goods (f.o.b)</i>	7,308,359	7,533,353	7,920,724	8,114,859	7,534,817	7,099,300	8,665,055	9,989,604
<i>Exports of services</i>	1,987,276	2,252,516	2,406,007	2,501,304	2,517,431	965,393	813,740	1,369,171
Less : Imports of goods and services	7,861,679	7,806,464	8,397,737	9,169,690	8,473,402	7,252,166	9,485,273	11,729,026
<i>Imports of goods (f.o.b)</i>	6,407,028	6,270,835	6,815,779	7,394,423	6,707,886	5,832,256	7,630,501	9,524,429
<i>Imports of services</i>	1,454,651	1,535,629	1,581,958	1,775,267	1,765,516	1,419,910	1,854,772	2,204,597
<b>Expenditure on gross domestic product</b>	<b>13,915,989</b>	<b>14,816,009</b>	<b>15,584,347</b>	<b>16,228,672</b>	<b>16,738,217</b>	<b>15,627,779</b>	<b>16,034,874</b>	<b>17,027,058</b>
Plus : Statistical discrepancy	-172,511	-225,672	-95,683	144,668	150,952	33,515	153,737	350,959
<b>Gross domestic product, (GDP)</b>	<b>13,743,478</b>	<b>14,590,337</b>	<b>15,488,664</b>	<b>16,373,340</b>	<b>16,889,169</b>	<b>15,661,294</b>	<b>16,188,611</b>	<b>17,378,017</b>

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

	(Million Baht)							
	2015	2016	2017	2018	2019	2020r	2021r	2022p
Private final consumption expenditure	4,909,901	5,051,349	5,207,330	5,445,519	5,661,479	5,617,253	5,651,161	5,999,291
General government final consumption expenditure	1,493,837	1,526,168	1,530,150	1,571,045	1,595,583	1,617,299	1,676,679	1,678,922
Gross fixed capital formation	2,350,865	2,418,543	2,463,150	2,560,080	2,610,781	2,486,963	2,562,913	2,621,321
Change in inventories	-111,915	-340,739	-68,590	258,420	117,390	127,759	289,148	238,433
Plus : Exports of goods and services	7,175,013	7,368,456	7,750,204	8,009,917	7,773,334	6,243,447	6,935,787	7,361,792
<i>Exports of goods (f.o.b)</i>	5,615,083	5,628,100	5,931,455	6,154,112	5,925,896	5,583,531	6,438,514	6,508,770
<i>Exports of services</i>	1,565,896	1,750,022	1,828,446	1,865,472	1,856,054	718,366	574,909	919,435
Less : Imports of goods and services	6,477,757	6,413,517	6,812,902	7,376,621	6,995,499	6,022,365	7,092,602	7,348,620
<i>Imports of goods (f.o.b)</i>	5,334,768	5,212,824	5,600,454	6,042,682	5,694,638	5,093,801	6,020,308	6,091,855
<i>Imports of services</i>	1,145,494	1,199,428	1,214,911	1,335,223	1,299,221	952,633	1,105,575	1,255,608
<b>Expenditure on gross domestic product (sum up)</b>	<b>9,343,405</b>	<b>9,621,191</b>	<b>10,076,576</b>	<b>10,476,743</b>	<b>10,773,324</b>	<b>10,104,737</b>	<b>10,067,441</b>	<b>10,618,709</b>
Residual (GDE (sum up) - GDE CVM)	-66,221	-104,417	-36,592	-53,755	-3,886	-17,372	-205,025	78,013
% Residual (GDE sum up) to GDE CVM	-0.7	-1.1	-0.4	-0.5	0.0	-0.2	-2.0	0.7
<b>Expenditure on gross domestic product</b>	<b>9,409,626</b>	<b>9,725,608</b>	<b>10,113,168</b>	<b>10,530,498</b>	<b>10,777,210</b>	<b>10,122,109</b>	<b>10,272,466</b>	<b>10,540,696</b>
<b>Gross domestic product, (GDP)</b>	<b>9,521,426</b>	<b>9,848,502</b>	<b>10,259,941</b>	<b>10,693,204</b>	<b>10,919,319</b>	<b>10,258,697</b>	<b>10,419,572</b>	<b>10,676,182</b>

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)

	2015	2016	2017	2018	2019	2020r	2021r	2022p
Private final consumption expenditure	152.9	157.3	162.2	169.6	176.3	174.9	176.0	186.8
General government final consumption expenditure	196.6	200.8	201.3	206.7	209.9	212.8	220.6	220.9
Gross fixed capital formation	186.0	191.3	194.8	202.5	206.5	196.7	202.7	207.3
Change in inventories								
Plus : Exports of goods and services	205.1	210.6	221.5	228.9	222.2	178.4	198.2	210.4
<i>Exports of goods (f.o.b)</i>	197.9	198.3	209.0	216.9	208.8	196.8	226.9	229.4
<i>Exports of services</i>	236.8	264.6	276.5	282.1	280.7	108.6	86.9	139.0
Less : Imports of goods and services	206.7	204.6	217.4	235.4	223.2	192.1	226.3	234.5
<i>Imports of goods (f.o.b)</i>	218.2	213.2	229.1	247.2	232.9	208.4	246.3	249.2
<i>Imports of services</i>	166.1	173.9	176.2	193.6	188.4	138.1	160.3	182.1
<b>Expenditure on gross domestic product</b>	<b>166.6</b>	<b>172.2</b>	<b>179.1</b>	<b>186.4</b>	<b>190.8</b>	<b>179.2</b>	<b>181.9</b>	<b>186.6</b>
<b>Gross domestic product, (GDP)</b>	<b>165.0</b>	<b>170.7</b>	<b>177.8</b>	<b>185.3</b>	<b>189.3</b>	<b>177.8</b>	<b>180.6</b>	<b>185.0</b>

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

	2015	2016	2017	2018	2019	2020r	2021r	2022p	Percent
Private final consumption expenditure	2.6	2.9	3.1	4.6	4.0	-0.8	0.6	6.2	
General government final consumption expenditure	2.5	2.2	0.3	2.7	1.6	1.4	3.7	0.1	
Gross fixed capital formation	4.4	2.9	1.8	3.9	2.0	-4.7	3.1	2.3	
Change in inventories									
Plus : Exports of goods and services	1.3	2.7	5.2	3.4	-3.0	-19.7	11.1	6.1	
<i>Exports of goods (f.o.b)</i>	-2.3	0.2	5.4	3.8	-3.7	-5.8	15.3	1.1	
<i>Exports of services</i>	16.9	11.8	4.5	2.0	-0.5	-61.3	-20.0	59.9	
Less : Imports of goods and services	0.0	-1.0	6.2	8.3	-5.2	-13.9	17.8	3.6	
<i>Imports of goods (f.o.b)</i>	0.2	-2.3	7.4	7.9	-5.8	-10.6	18.2	1.2	
<i>Imports of services</i>	-1.0	4.7	1.3	9.9	-2.7	-26.7	16.1	13.6	
<b>Expenditure on gross domestic product</b>	<b>3.2</b>	<b>3.4</b>	<b>4.0</b>	<b>4.1</b>	<b>2.3</b>	<b>-6.1</b>	<b>1.5</b>	<b>2.6</b>	
<b>Gross domestic product, (GDP)</b>	<b>3.1</b>	<b>3.4</b>	<b>4.2</b>	<b>4.2</b>	<b>2.1</b>	<b>-6.1</b>	<b>1.6</b>	<b>2.5</b>	

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

	2015	2016	2017	2018	2019	2020r	2021r	2022p	Percent
Private final consumption expenditure	1.4	1.5	1.5	2.2	1.9	-0.4	0.3	3.2	
General government final consumption expenditure	0.4	0.4	0.0	0.4	0.3	0.2	0.7	0.0	
Gross fixed capital formation	1.1	0.7	0.4	0.9	0.5	-1.1	0.7	0.5	
Change in inventories	-0.6	-1.5	1.9	2.8	-1.3	0.0	2.3	-2.7	
Plus : Exports of goods and services	0.9	1.8	3.5	2.2	-1.9	-11.7	5.7	3.6	
<i>Exports of goods (f.o.b)</i>	-1.3	0.1	2.8	1.9	-1.8	-2.6	6.9	0.6	
<i>Exports of services</i>	2.2	1.7	0.7	0.3	-0.1	-9.1	-1.2	3.0	
Less : Imports of goods and services	0.0	-0.6	3.3	4.5	-2.9	-7.0	8.2	2.1	
<i>Imports of goods (f.o.b)</i>	0.1	-1.1	3.2	3.5	-2.6	-4.2	6.8	0.6	
<i>Imports of services</i>	-0.1	0.5	0.1	1.0	-0.3	-2.8	1.5	1.6	
<b>Expenditure on gross domestic product</b>	<b>3.2</b>	<b>3.4</b>	<b>4.0</b>	<b>4.2</b>	<b>2.3</b>	<b>-6.0</b>	<b>1.5</b>	<b>2.6</b>	
<b>Gross domestic product, (GDP)</b>	<b>3.1</b>	<b>3.4</b>	<b>4.2</b>	<b>4.2</b>	<b>2.1</b>	<b>-6.1</b>	<b>1.6</b>	<b>2.5</b>	





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

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

	(Millions of Baht)							
	2015	2016	2017	2018	2019	2020r	2021r	2022p
<b>Agriculture</b>	<b>1,219,420</b>	<b>1,236,981</b>	<b>1,302,041</b>	<b>1,342,911</b>	<b>1,372,848</b>	<b>1,362,979</b>	<b>1,407,097</b>	<b>1,516,169</b>
Agriculture, forestry and fishing	1,219,420	1,236,981	1,302,041	1,342,911	1,372,848	1,362,979	1,407,097	1,516,169
<b>Non-agriculture</b>	<b>12,524,058</b>	<b>13,353,356</b>	<b>14,186,623</b>	<b>15,030,429</b>	<b>15,516,321</b>	<b>14,298,315</b>	<b>14,781,514</b>	<b>15,861,848</b>
<i>Industrial</i>	4,592,338	4,791,853	5,029,209	5,278,347	5,254,658	4,791,808	5,236,385	5,670,190
Mining and quarrying	431,425	399,753	386,153	416,991	411,820	324,142	357,577	388,511
Manufacturing	3,762,150	3,960,437	4,184,233	4,373,783	4,327,276	4,002,295	4,398,057	4,701,012
Electricity, gas, steam and air conditioning supply	343,430	373,038	396,457	422,034	446,482	397,176	408,030	504,309
Water supply; sewerage, waste management and remediation activities	55,333	58,625	62,366	65,539	69,080	68,195	72,721	76,358
<i>Services</i>	7,931,720	8,561,503	9,157,414	9,752,082	10,261,663	9,506,507	9,545,129	10,191,658
Construction	379,940	400,376	394,729	410,157	419,075	421,949	437,666	438,546
Wholesale and retail trade; repair of motor vehicles and motorcycles	1,966,439	2,187,129	2,379,660	2,580,986	2,744,078	2,647,753	2,629,061	2,679,283
Transportation and storage	779,135	864,556	920,641	955,066	983,945	751,580	744,308	819,372
Accommodation and food service activities	600,218	696,810	817,326	922,803	1,031,231	605,245	515,304	740,733
Information and communication	327,394	337,483	361,815	388,297	431,414	434,607	458,391	489,304
Financial and insurance activities	1,037,966	1,120,954	1,181,246	1,240,877	1,267,132	1,289,551	1,347,409	1,456,437
Real estate activities	332,488	354,175	377,355	400,066	417,700	428,205	436,434	448,799
Professional, scientific and technical activities	261,390	254,947	274,638	284,835	290,689	275,419	274,215	293,214
Administrative and support service activities	237,026	240,493	251,605	263,242	270,719	211,981	201,703	218,710
Public administration and defence; compulsory social security	843,417	881,905	917,355	957,152	992,291	1,026,559	1,053,960	1,076,415
Education	594,280	612,300	629,952	651,304	674,770	691,825	705,971	735,599
Human health and social work activities	288,404	307,429	328,165	351,182	370,891	387,897	410,162	444,647
Arts, entertainment and recreation	70,145	81,153	91,070	102,411	116,694	102,293	108,489	112,659
Other service activities	185,669	193,690	204,434	216,334	222,968	202,788	193,492	207,798
Activities of households as employers	27,809	28,103	27,423	27,370	28,066	28,855	28,564	30,142
<b>Gross Domestic Product, (GDP)</b>	<b>13,743,478</b>	<b>14,590,337</b>	<b>15,488,664</b>	<b>16,373,340</b>	<b>16,889,169</b>	<b>15,661,294</b>	<b>16,188,611</b>	<b>17,378,017</b>
Plus : Net primary income from the rest of the world	-708,973	-685,365	-693,851	-791,255	-620,914	-347,199	-562,295	-499,795
<b>Gross National Income, (GNI) 1/</b>	<b>13,034,505</b>	<b>13,904,972</b>	<b>14,794,813</b>	<b>15,582,085</b>	<b>16,268,255</b>	<b>15,314,095</b>	<b>15,626,316</b>	<b>16,878,222</b>
Less : Consumption of fixed capital	2,344,834	2,488,386	2,628,663	2,775,404	2,912,542	2,974,143	3,040,598	3,130,027
<b>Net National Income, (NNI)</b>	<b>10,689,671</b>	<b>11,416,586</b>	<b>12,166,150</b>	<b>12,806,681</b>	<b>13,355,713</b>	<b>12,339,952</b>	<b>12,585,718</b>	<b>13,748,195</b>
<b>Per capita GDP (Baht)</b>	<b>202,152</b>	<b>213,553</b>	<b>225,126</b>	<b>236,927</b>	<b>243,658</b>	<b>225,313</b>	<b>232,301</b>	<b>248,787</b>
<b>Per capita GNI (Baht)</b>	<b>191,723</b>	<b>203,521</b>	<b>215,041</b>	<b>225,478</b>	<b>234,700</b>	<b>220,318</b>	<b>224,233</b>	<b>241,632</b>
<b>Population (1,000 Heads)</b>	<b>67,986</b>	<b>68,322</b>	<b>68,800</b>	<b>69,107</b>	<b>69,315</b>	<b>69,509</b>	<b>69,688</b>	<b>69,851</b>

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

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

(Millions of Baht)

	2015	2016	2017	2018	2019	2020r	2021r	2022p
<b>Agriculture</b>	<b>1,231,908</b>	<b>1,249,157</b>	<b>1,307,451</b>	<b>1,342,837</b>	<b>1,377,395</b>	<b>1,373,277</b>	<b>1,421,672</b>	<b>1,515,965</b>
Agriculture, forestry and fishing	1,231,908	1,249,157	1,307,451	1,342,837	1,377,395	1,373,277	1,421,672	1,515,965
<b>Non-agriculture</b>	<b>11,107,930</b>	<b>11,887,638</b>	<b>12,654,745</b>	<b>13,386,221</b>	<b>13,826,241</b>	<b>12,845,451</b>	<b>13,329,479</b>	<b>14,425,969</b>
<i>Industrial</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>4,040,853</i>	<i>4,522,566</i>	<i>5,096,576</i>
Mining and quarrying	364,614	339,761	327,469	352,793	345,040	264,765	299,010	325,512
Manufacturing	3,156,421	3,329,918	3,540,236	3,672,904	3,601,317	3,342,592	3,772,433	4,220,365
Electricity, gas, steam and air conditioning supply	311,475	343,285	366,288	388,165	412,784	367,183	380,251	476,631
Water supply; sewerage, waste management and remediation activities	53,653	56,808	60,186	63,113	66,647	66,313	70,872	74,068
<i>Services</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>8,804,598</i>	<i>8,806,913</i>	<i>9,329,393</i>
Construction	346,034	364,174	357,251	370,836	377,454	383,588	399,751	392,723
Wholesale and retail trade; repair of motor vehicles and motorcycles	1,572,302	1,766,249	1,936,216	2,117,515	2,272,431	2,262,520	2,226,883	2,229,424
Transportation and storage	769,473	851,658	904,046	939,462	967,873	739,883	727,639	795,230
Accommodation and food service activities	585,837	680,951	798,458	902,473	1,010,717	594,947	506,972	722,644
Information and communication	307,382	323,425	345,691	367,710	408,987	419,065	439,548	466,490
Financial and insurance activities	984,873	1,067,757	1,127,188	1,185,024	1,207,136	1,233,112	1,290,744	1,390,942
Real estate activities	254,946	277,512	288,657	304,059	323,923	358,969	363,688	363,264
Professional, scientific and technical activities	224,870	219,995	238,257	247,614	253,336	238,729	239,760	251,766
Administrative and support service activities	178,761	186,266	197,606	207,982	216,466	163,383	150,738	157,422
Public administration and defence; compulsory social security	843,417	881,905	917,355	957,152	992,291	1,026,559	1,053,960	1,076,415
Education	620,754	636,274	653,939	675,781	699,110	720,036	734,890	762,766
Human health and social work activities	286,849	305,716	326,304	349,013	368,639	386,942	409,116	442,472
Arts, entertainment and recreation	52,891	55,260	59,808	65,815	77,138	65,824	63,351	69,460
Other service activities	165,569	172,621	182,367	191,440	196,886	182,186	171,309	178,233
Activities of households as employers	27,809	28,103	27,423	27,370	28,066	28,855	28,564	30,142
<b>Gross domestic product, (GDP)</b>	<b>12,339,838</b>	<b>13,136,795</b>	<b>13,962,196</b>	<b>14,729,058</b>	<b>15,203,636</b>	<b>14,218,728</b>	<b>14,751,151</b>	<b>15,941,934</b>

Note : From the next publication of National Income of Thailand 2023 onwards, Table 4 will be presented as

Gross domestic product at basic prices by economic activities

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

	(Millions of Baht)							
	2015	2016	2017	2018	2019	2020r	2021r	2022p
<b>Agriculture</b>	<b>615,884</b>	<b>608,753</b>	<b>638,106</b>	<b>677,010</b>	<b>670,375</b>	<b>649,198</b>	<b>663,775</b>	<b>680,281</b>
Agriculture, forestry and fishing	615,884	608,753	638,106	677,010	670,375	649,198	663,775	680,281
<b>Non-agriculture</b>	<b>8,972,643</b>	<b>9,320,993</b>	<b>9,704,832</b>	<b>10,097,962</b>	<b>10,339,413</b>	<b>9,687,425</b>	<b>9,833,088</b>	<b>10,075,030</b>
<i>Industrial</i>	3,235,835	3,308,253	3,378,509	3,476,652	3,472,213	3,272,520	3,396,717	3,398,439
Mining and quarrying	244,576	246,599	231,893	225,099	228,914	208,020	200,604	175,904
Manufacturing	2,670,312	2,730,588	2,809,907	2,907,210	2,882,594	2,729,756	2,858,830	2,878,116
Electricity, gas, steam and air conditioning supply	277,958	286,156	291,273	297,762	311,536	286,663	287,437	297,106
Water supply; sewerage, waste management and remediation activities	43,419	46,681	49,776	52,716	55,682	56,075	58,620	61,269
<i>Services</i>	5,754,370	6,032,560	6,348,319	6,645,434	6,894,937	6,440,561	6,463,011	6,707,473
Construction	268,506	289,919	281,274	287,681	292,174	295,932	302,539	295,366
Wholesale and retail trade; repair of motor vehicles and motorcycles	1,340,744	1,423,314	1,514,519	1,610,858	1,682,047	1,626,590	1,651,522	1,712,328
Transportation and storage	607,677	639,932	691,372	718,049	737,410	572,017	558,852	603,413
Accommodation and food service activities	496,112	542,053	600,672	648,597	697,935	440,306	374,133	503,356
Information and communication	468,111	479,365	497,972	541,729	603,743	612,488	646,386	679,804
Financial and insurance activities	652,506	698,410	744,929	772,489	786,463	827,899	874,484	854,273
Real estate activities	344,220	368,471	393,071	414,466	430,113	436,760	443,923	454,117
Professional, scientific and technical activities	199,458	194,998	207,217	212,968	216,952	206,347	199,998	202,210
Administrative and support service activities	169,527	172,062	177,330	183,491	187,600	147,248	135,711	141,082
Public administration and defence; compulsory social security	507,469	509,645	513,565	521,430	528,249	536,568	538,196	532,468
Education	324,311	323,600	324,971	328,186	333,378	337,240	338,114	342,939
Human health and social work activities	208,554	214,831	223,611	234,365	243,165	250,730	259,696	272,770
Arts, entertainment and recreation	66,670	80,861	90,652	101,747	116,455	101,477	107,208	108,072
Other service activities	139,542	144,950	151,937	158,319	162,608	149,774	141,137	143,661
Activities of households as employers	17,580.0	17,564.0	17,072.0	16,633.0	16,535.0	16,989.0	16,974.0	16,887.0
<b>Gross domestic product (sum up)</b>	<b>9,663,136</b>	<b>10,018,752</b>	<b>10,451,119</b>	<b>10,910,805</b>	<b>11,183,928</b>	<b>10,488,077</b>	<b>10,658,139</b>	<b>10,955,422</b>
Residual (GDP (sum up) - GDP CVM)	141,710	170,250	191,178	217,601	264,609	229,380	238,567	279,240
% Residual (GDP sum up) to GDP CVM	1.5	1.7	1.9	2.0	2.4	2.2	2.3	2.6
<b>Gross domestic product, (CVM)<sup>1)</sup></b>	<b>9,521,426</b>	<b>9,848,502</b>	<b>10,259,941</b>	<b>10,693,204</b>	<b>10,919,319</b>	<b>10,258,697</b>	<b>10,419,572</b>	<b>10,676,182</b>
<b>Gross National Income (GNI), CVM<sup>2)</sup></b>	<b>9,040,508</b>	<b>9,384,589</b>	<b>9,791,579</b>	<b>10,163,879</b>	<b>10,500,600</b>	<b>10,010,533</b>	<b>10,026,594</b>	<b>10,330,962</b>

Note : <sup>1)</sup> Chain volume series are not additive. The sum of the components will thus not be equal to the shown totals.

<sup>2)</sup> GNI = GNP (Gross National Products)

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

	2015	2016	2017	2018	2019	2020r	2021r	2022p
<b>Agriculture</b>	<b>122.8</b>	<b>121.4</b>	<b>127.2</b>	<b>135.0</b>	<b>133.7</b>	<b>129.5</b>	<b>132.4</b>	<b>135.6</b>
Agriculture, forestry and fishing	122.8	121.4	127.2	135.0	133.7	129.5	132.4	135.6
<b>Non-agriculture</b>	<b>170.3</b>	<b>176.9</b>	<b>184.2</b>	<b>191.7</b>	<b>196.3</b>	<b>183.9</b>	<b>186.7</b>	<b>191.2</b>
<i>Industrial</i>	164.9	168.6	172.2	177.2	177.0	166.8	173.1	173.2
Mining and quarrying	178.5	180.0	169.2	164.3	167.1	151.8	146.4	128.4
Manufacturing	162.3	166.0	170.8	176.7	175.2	165.9	173.8	174.9
Electricity, gas, steam and air conditioning supply	181.9	187.3	190.7	194.9	203.9	187.6	188.1	194.5
Water supply; sewerage, waste management and remediation activities	161.2	173.3	184.8	195.7	206.7	208.2	217.6	227.5
<i>Services</i>	174.1	182.5	192.0	201.0	208.5	194.8	195.5	202.9
Construction	161.1	173.9	168.7	172.6	175.3	177.5	181.5	177.2
Wholesale and retail trade; repair of motor vehicles and motorcycles	148.1	157.2	167.2	177.9	185.7	179.6	182.4	189.1
Transportation and storage	162.9	171.5	185.3	192.5	197.7	153.3	149.8	161.8
Accommodation and food service activities	228.8	250.0	277.0	299.1	321.9	203.0	172.5	232.1
Information and communication	330.3	338.3	351.4	382.3	426.1	432.2	456.1	479.7
Financial and insurance activities	235.9	252.5	269.3	279.3	284.3	299.3	316.1	308.8
Real estate activities	149.6	160.2	170.9	180.2	187.0	189.9	193.0	197.4
Professional, scientific and technical activities	203.6	199.0	211.5	217.4	221.4	210.6	204.1	206.4
Administrative and support service activities	175.9	178.5	184.0	190.3	194.6	152.8	140.8	146.4
Public administration and defence; compulsory social security	149.0	149.6	150.8	153.1	155.1	157.5	158.0	156.3
Education	151.0	150.7	151.4	152.9	155.3	157.1	157.5	159.7
Human health and social work activities	175.1	180.3	187.7	196.7	204.1	210.5	218.0	229.0
Arts, entertainment and recreation	279.6	339.2	380.2	426.8	488.5	425.6	449.7	453.3
Other service activities	163.5	169.9	178.0	185.5	190.5	175.5	165.4	168.3
Activities of households as employers	99.8	99.8	97.0	94.5	93.9	96.5	96.4	95.9
<b>Gross domestic product, (GDP)</b>	<b>165.0</b>	<b>170.7</b>	<b>177.8</b>	<b>185.3</b>	<b>189.3</b>	<b>177.8</b>	<b>180.6</b>	<b>185.0</b>
<b>Gross National Income (GNI), CVM</b>	<b>162.4</b>	<b>168.6</b>	<b>175.9</b>	<b>182.6</b>	<b>188.6</b>	<b>179.8</b>	<b>180.1</b>	<b>185.6</b>

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

	Percent							
	2015	2016	2017	2018	2019	2020r	2021r	2022p
<b>Agriculture</b>	<b>-6.5</b>	<b>-1.2</b>	<b>4.8</b>	<b>6.1</b>	<b>-1.0</b>	<b>-3.2</b>	<b>2.2</b>	<b>2.5</b>
Agriculture, forestry and fishing	-6.5	-1.2	4.8	6.1	-1.0	-3.2	2.2	2.5
<b>Non-agriculture</b>	<b>4.2</b>	<b>3.9</b>	<b>4.1</b>	<b>4.1</b>	<b>2.4</b>	<b>-6.3</b>	<b>1.5</b>	<b>2.5</b>
<i>Industrial</i>	1.9	2.2	2.1	2.9	-0.1	-5.8	3.8	0.1
Mining and quarrying	2.4	0.8	-6.0	-2.9	1.7	-9.1	-3.6	-12.3
Manufacturing	1.5	2.3	2.9	3.5	-0.8	-5.3	4.7	0.7
Electricity, gas, steam and air conditioning supply	4.9	2.9	1.8	2.2	4.6	-8.0	0.3	3.4
Water supply; sewerage, waste management and remediation activities	9.0	7.5	6.6	5.9	5.6	0.7	4.5	4.5
<i>Services</i>	5.6	4.8	5.2	4.7	3.8	-6.6	0.3	3.8
Construction	17.1	8.0	-3.0	2.3	1.6	1.3	2.2	-2.4
Wholesale and retail trade; repair of motor vehicles and motorcycles	5.6	6.2	6.4	6.4	4.4	-3.3	1.5	3.7
Transportation and storage	4.0	5.3	8.0	3.9	2.7	-22.4	-2.3	8.0
Accommodation and food service activities	15.0	9.3	10.8	8.0	7.6	-36.9	-15.0	34.5
Information and communication	10.1	2.4	3.9	8.8	11.4	1.4	5.5	5.2
Financial and insurance activities	8.4	7.0	6.7	3.7	1.8	5.3	5.6	-2.3
Real estate activities	1.5	7.0	6.7	5.4	3.8	1.5	1.6	2.3
Professional, scientific and technical activities	-1.5	-2.2	6.3	2.8	1.9	-4.9	-3.1	1.1
Administrative and support service activities	3.6	1.5	3.1	3.5	2.2	-21.5	-7.8	4.0
Public administration and defence; compulsory social security	1.1	0.4	0.8	1.5	1.3	1.6	0.3	-1.1
Education	0.2	-0.2	0.4	1.0	1.6	1.2	0.3	1.4
Human health and social work activities	3.2	3.0	4.1	4.8	3.8	3.1	3.6	5.0
Arts, entertainment and recreation	9.2	21.3	12.1	12.2	14.5	-12.9	5.6	0.8
Other service activities	3.1	3.9	4.8	4.2	2.7	-7.9	-5.8	1.8
Activities of households as employers	3.7	-0.1	-2.8	-2.6	-0.6	2.7	-0.1	-0.5
<b>Gross domestic product, (GDP)</b>	<b>3.1</b>	<b>3.4</b>	<b>4.2</b>	<b>4.2</b>	<b>2.1</b>	<b>-6.1</b>	<b>1.6</b>	<b>2.5</b>
<b>Gross National Income (GNI), CVM</b>	<b>3.0</b>	<b>3.8</b>	<b>4.3</b>	<b>3.8</b>	<b>3.3</b>	<b>-4.7</b>	<b>0.2</b>	<b>3.0</b>

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

	Percent							
	2015	2016	2017	2018	2019	2020r	2021r	2022p
<b>Agriculture</b>	<b>-0.7</b>	<b>-0.1</b>	<b>0.4</b>	<b>0.5</b>	<b>-0.1</b>	<b>-0.3</b>	<b>0.2</b>	<b>0.2</b>
Agriculture, forestry and fishing	-0.7	-0.1	0.4	0.5	-0.1	-0.3	0.2	0.2
<b>Non-agriculture</b>	<b>3.8</b>	<b>3.5</b>	<b>3.8</b>	<b>3.7</b>	<b>2.2</b>	<b>-5.8</b>	<b>1.4</b>	<b>2.2</b>
<i>Industrial</i>	0.7	0.7	0.7	0.9	0.0	-1.8	1.2	0.0
Mining and quarrying	0.1	0.0	-0.2	-0.1	0.0	-0.2	-0.1	-0.3
Manufacturing	0.4	0.6	0.8	0.9	-0.2	-1.4	1.2	0.2
Electricity, gas, steam and air conditioning supply	0.1	0.1	0.0	0.1	0.1	-0.2	0.0	0.1
Water supply; sewerage, waste management and remediation activities	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Services</i>	3.1	2.8	3.1	2.8	2.2	-4.0	0.2	2.2
Construction	0.4	0.2	-0.1	0.1	0.0	0.0	0.1	-0.1
Wholesale and retail trade; repair of motor vehicles and motorcycles	0.8	0.9	1.0	1.0	0.7	-0.5	0.3	0.6
Transportation and storage	0.2	0.3	0.5	0.2	0.2	-1.3	-0.1	0.4
Accommodation and food service activities	0.6	0.4	0.5	0.4	0.4	-2.3	-0.6	1.1
Information and communication	0.2	0.1	0.1	0.2	0.3	0.0	0.2	0.1
Financial and insurance activities	0.6	0.5	0.5	0.3	0.1	0.4	0.5	-0.2
Real estate activities	0.0	0.2	0.2	0.1	0.1	0.0	0.0	0.1
Professional, scientific and technical activities	0.0	0.0	0.1	0.0	0.0	-0.1	-0.1	0.0
Administrative and support service activities	0.1	0.0	0.1	0.1	0.0	-0.3	-0.1	0.0
Public administration and defence; compulsory social security	0.1	0.0	0.0	0.1	0.1	0.1	0.0	-0.1
Education	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1
Human health and social work activities	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Arts, entertainment and recreation	0.0	0.1	0.1	0.1	0.1	-0.1	0.0	0.0
Other service activities	0.0	0.1	0.1	0.1	0.0	-0.1	-0.1	0.0
Activities of households as employers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Gross domestic product, (GDP)</b>	<b>3.1</b>	<b>3.4</b>	<b>4.2</b>	<b>4.2</b>	<b>2.1</b>	<b>-6.1</b>	<b>1.6</b>	<b>2.5</b>

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

(Millions of Baht)

	2015	2016	2017	2018	2019	2020r	2021r	2022p
Crop and animal production, hunting and related service activities	1,104,801	1,114,435	1,179,168	1,214,255	1,242,584	1,228,879	1,267,379	1,366,354
Forestry and logging	11,593	12,626	11,897	12,279	12,058	12,285	13,079	13,422
Fishing and aquaculture	103,026	109,920	110,976	116,377	118,206	121,815	126,639	136,393
<b>Total value added</b>	<b>1,219,420</b>	<b>1,236,981</b>	<b>1,302,041</b>	<b>1,342,911</b>	<b>1,372,848</b>	<b>1,362,979</b>	<b>1,407,097</b>	<b>1,516,169</b>

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

(Millions of Baht)

	2015	2016	2017	2018	2019	2020r	2021r	2022p
Crop and animal production, hunting and related service activities	477,126	470,305	497,229	528,655	523,427	503,934	517,629	532,259
Forestry and logging	8,101	8,741	8,059	8,234	7,973	8,228	8,565	8,166
Fishing and aquaculture	101,822	102,575	99,617	103,751	103,072	105,265	102,421	102,246
<b>Total value added</b>	<b>615,884</b>	<b>608,753</b>	<b>638,106</b>	<b>677,010</b>	<b>670,375</b>	<b>649,198</b>	<b>663,775</b>	<b>680,281</b>

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)**

	2015	2016	2017	2018	2019	2020r	2021r	2022p
Crop and animal production, hunting and related service activities	123.5	121.7	128.7	136.8	135.5	130.4	134.0	137.8
Forestry and logging	120.2	129.7	119.6	122.2	118.3	122.1	127.1	121.2
Fishing and aquaculture	93.9	94.6	91.9	95.7	95.1	97.1	94.5	94.3
<b>Total value added</b>	<b>122.8</b>	<b>121.4</b>	<b>127.2</b>	<b>135.0</b>	<b>133.7</b>	<b>129.5</b>	<b>132.4</b>	<b>135.6</b>

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

Percent

	2015	2016	2017	2018	2019	2020r	2021r	2022p
Crop and animal production, hunting and related service activities	-6.2	-1.4	5.7	6.3	-1.0	-3.7	2.7	2.8
Forestry and logging	1.8	7.9	-7.8	2.2	-3.2	3.2	4.1	-4.7
Fishing and aquaculture	-10.6	0.7	-2.9	4.2	-0.7	2.1	-2.7	-0.2
<b>Total value added</b>	<b>-6.5</b>	<b>-1.2</b>	<b>4.8</b>	<b>6.1</b>	<b>-1.0</b>	<b>-3.2</b>	<b>2.2</b>	<b>2.5</b>

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

(Millions of Baht)

	2015	2016	2017	2018	2019	2020r	2021r	2022p
Mining of coal and lignite	11,368	12,155	12,034	11,865	10,575	10,275	10,339	10,080
Extraction of crude petroleum and natural gas	357,965	309,723	302,890	336,604	330,239	246,835	274,232	303,611
Mining of metal ores	4,180	5,302	1,347	79	53	62	105	124
Other mining and quarrying	57,912	72,573	69,882	68,443	70,953	66,970	72,901	74,696
<b>Total value added</b>	<b>431,425</b>	<b>399,753</b>	<b>386,153</b>	<b>416,991</b>	<b>411,820</b>	<b>324,142</b>	<b>357,577</b>	<b>388,511</b>

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

(Million Baht)

	2015	2016	2017	2018	2019	2020r	2021r	2022p
Mining of coal and lignite	5,470	5,721	5,786	5,805	5,086	4,770	4,749	4,700
Extraction of crude petroleum and natural gas	198,766	199,318	188,646	182,984	186,718	168,098	157,946	132,902
Mining of metal ores	1,131	1,342	349	22	15	16	22	25
Other mining and quarrying	36,761	37,570	35,771	35,253	36,116	34,094	35,809	35,590
<b>Total value added</b>	<b>244,576</b>	<b>246,599</b>	<b>231,893</b>	<b>225,099</b>	<b>228,914</b>	<b>208,020</b>	<b>200,604</b>	<b>175,904</b>

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)**

	2015	2016	2017	2018	2019	2020r	2021r	2022p
Mining of coal and lignite	73.2	76.5	77.4	77.6	68.0	63.8	63.5	62.9
Extraction of crude petroleum and natural gas	192.6	193.2	182.8	177.3	181.0	162.9	153.1	128.8
Mining of metal ores	50.4	59.8	15.5	1.0	0.7	0.7	1.0	1.1
Other mining and quarrying	152.4	155.7	148.3	146.1	149.7	141.3	148.4	147.5
<b>Total value added</b>	<b>178.5</b>	<b>180.0</b>	<b>169.2</b>	<b>164.3</b>	<b>167.1</b>	<b>151.8</b>	<b>146.4</b>	<b>128.4</b>

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

	2015	2016	2017	2018	2019	2020r	2021r	2022p
Mining of coal and lignite	-16.0	4.6	1.1	0.3	-12.4	-6.2	-0.4	-1.0
Extraction of crude petroleum and natural gas	2.7	0.3	-5.4	-3.0	2.0	-10.0	-6.0	-15.9
Mining of metal ores	-32.2	18.7	-74.0	-93.7	-31.8	6.7	37.5	13.6
Other mining and quarrying	9.4	2.2	-4.8	-1.4	2.4	-5.6	5.0	-0.6
<b>Total value added</b>	<b>2.4</b>	<b>0.8</b>	<b>-6.0</b>	<b>-2.9</b>	<b>1.7</b>	<b>-9.1</b>	<b>-3.6</b>	<b>-12.3</b>



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

	(Millions of Baht)							
	2015	2016	2017	2018	2019	2020r	2021r	2022p
Food products	532,958	601,977	604,140	627,095	609,703	617,415	680,010	727,563
Beverages	286,228	285,269	275,400	277,742	310,486	293,878	295,732	313,089
Tobacco products	56,424	51,333	42,766	35,674	33,199	32,529	31,362	29,814
Textiles	114,327	110,144	106,749	103,433	96,072	79,555	78,156	80,394
Wearing apparel	78,951	85,596	94,177	101,437	102,869	87,186	79,883	81,333
Leather and related products	41,036	42,606	45,321	47,692	48,819	40,018	42,233	54,874
Wood and products of wood and cork	43,295	46,817	47,218	46,199	47,410	49,984	54,587	60,464
Paper and paper products	52,402	53,440	55,370	58,410	57,450	57,657	62,290	60,779
Printing and reproduction of recorded media	11,478	11,554	11,748	11,720	11,058	10,307	10,422	10,599
Coke and refined petroleum products	310,945	395,980	440,648	498,049	491,302	373,577	458,668	621,706
Chemicals and chemical products	326,200	318,854	355,497	394,976	370,756	339,394	400,646	404,217
Basic pharmaceutical products and pharmaceutical preparations	35,568	38,528	41,181	45,971	49,877	54,883	57,858	64,844
Rubber and plastics products	264,573	281,080	326,847	301,555	286,816	268,554	291,689	303,969
Non-metallic mineral products	148,621	148,880	144,229	150,891	156,291	149,857	154,528	162,916
Basic metals	60,793	63,163	67,621	67,814	59,446	57,375	79,221	77,642
Fabricated metal products, except machinery and equipment	110,410	118,874	127,883	136,728	138,419	135,338	142,578	146,705
Computer, electronic and optical products	367,282	332,931	381,791	397,084	390,918	386,777	411,826	389,966
Electrical equipment	185,753	199,390	193,466	196,948	204,887	209,069	226,058	224,937
Machinery and equipment not elsewhere classified	160,332	162,307	176,644	185,179	183,358	182,019	191,737	186,941
Motor vehicles, trailers and semi-trailers	300,730	326,952	341,363	379,324	364,671	274,133	323,957	358,078
Other transport equipment	90,633	95,928	108,568	109,982	112,105	96,300	97,587	103,296
Furniture	33,203	32,783	35,272	35,401	34,906	34,747	43,020	39,023
Other manufacturing	148,192	153,770	158,476	162,278	164,154	169,563	182,040	195,886
Repair and installation of machinery and equipment	1,816	2,281	1,858	2,201	2,304	2,180	1,969	1,977
<b>Total value added</b>	<b>3,762,150</b>	<b>3,960,437</b>	<b>4,184,233</b>	<b>4,373,783</b>	<b>4,327,276</b>	<b>4,002,295</b>	<b>4,398,057</b>	<b>4,701,012</b>

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

	(Million Baht)							
	2015	2016	2017	2018	2019	2020r	2021r	2022p
Food products	333,035	338,054	340,421	366,610	354,590	338,768	351,649	362,974
Beverages	209,670	208,408	209,788	201,398	220,838	204,914	203,788	208,755
Tobacco products	33,707	30,631	25,467	21,251	19,721	19,321	18,256	16,308
Textiles	94,684	91,136	87,916	85,287	78,979	65,360	63,472	64,259
Wearing apparel	85,617	80,333	77,873	81,100	79,934	68,007	62,284	61,967
Leather and related products	37,821	39,368	41,116	43,184	45,504	37,305	39,164	50,675
Wood and products of wood and cork	32,634	35,247	37,788	36,374	37,132	38,693	40,464	42,546
Paper and paper products	45,579	46,314	46,837	48,468	48,412	50,255	51,214	47,865
Printing and reproduction of recorded media	7,894	7,588	7,712	7,916	7,758	7,171	7,222	7,270
Coke and refined petroleum products	126,783	127,933	134,169	139,825	133,345	130,331	128,132	136,190
Chemicals and chemical products	164,931	170,222	178,020	186,075	188,809	189,391	201,732	189,539
Basic pharmaceutical products and pharmaceutical preparations	33,746	36,536	39,003	43,535	47,093	51,784	55,041	62,613
Rubber and plastics products	154,656	158,628	171,973	165,114	157,574	146,443	151,588	149,583
Non-metallic mineral products	114,749	114,513	113,828	117,080	120,704	115,495	118,048	119,617
Basic metals	48,606	51,525	53,820	53,981	48,941	46,720	56,714	50,702
Fabricated metal products, except machinery and equipment	79,822	86,220	92,443	98,696	99,831	97,627	102,001	102,202
Computer, electronic and optical products	304,333	309,642	341,204	361,098	361,880	363,993	387,387	352,761
Electrical equipment	134,996	143,175	137,635	140,748	147,527	150,837	162,069	158,605
Machinery and equipment not elsewhere classified	140,451	141,831	154,327	162,187	161,290	160,609	168,914	162,679
Motor vehicles, trailers and semi-trailers	266,288	285,774	291,873	317,978	301,667	226,793	265,459	289,480
Other transport equipment	75,886	84,655	83,230	84,986	87,576	75,614	80,999	85,329
Furniture	25,045	24,685	26,483	26,512	26,147	26,041	32,181	28,417
Other manufacturing	81,309	81,684	81,233	83,721	83,588	81,530	87,109	91,272
Repair and installation of machinery and equipment	1,584	1,778	1,749	2,057	2,132	2,003	1,796	1,786
<b>Total value added</b>	<b>2,670,312</b>	<b>2,730,588</b>	<b>2,809,907</b>	<b>2,907,210</b>	<b>2,882,594</b>	<b>2,729,756</b>	<b>2,858,830</b>	<b>2,878,116</b>

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)**

	2015	2016	2017	2018	2019	2020r	2021r	2022p
Food products	152.0	154.3	155.4	167.3	161.9	154.6	160.5	165.7
Beverages	185.2	184.0	185.3	177.9	195.0	181.0	180.0	184.4
Tobacco products	97.4	88.5	73.6	61.4	57.0	55.8	52.8	47.1
Textiles	80.4	77.4	74.6	72.4	67.0	55.5	53.9	54.6
Wearing apparel	83.9	78.7	76.3	79.5	78.3	66.6	61.0	60.7
Leather and related products	102.1	106.2	111.0	116.5	122.8	100.7	105.7	136.8
Wood and products of wood and cork	167.2	180.6	193.6	186.4	190.2	198.2	207.3	218.0
Paper and paper products	118.6	120.5	121.9	126.2	126.0	130.8	133.3	124.6
Printing and reproduction of recorded media	99.7	95.8	97.4	99.9	97.9	90.5	91.2	91.8
Coke and refined petroleum products	106.6	107.6	112.8	117.6	112.1	109.6	107.8	114.5
Chemicals and chemical products	192.6	198.8	207.9	217.3	220.5	221.2	235.6	221.4
Basic pharmaceutical products and pharmaceutical preparations	176.3	190.8	203.7	227.4	246.0	270.5	287.5	327.1
Rubber and plastics products	171.3	175.7	190.5	182.9	174.5	162.2	167.9	165.7
Non-metallic mineral products	142.8	142.5	141.6	145.7	150.2	143.7	146.9	148.8
Basic metals	109.8	116.4	121.6	122.0	110.6	105.6	128.2	114.6
Fabricated metal products, except machinery and equipment	131.5	142.0	152.3	162.6	164.4	160.8	168.0	168.3
Computer, electronic and optical products	249.3	253.7	279.5	295.8	296.4	298.2	317.3	289.0
Electrical equipment	209.6	222.3	213.7	218.5	229.0	234.2	251.6	246.2
Machinery and equipment not elsewhere classified	250.8	253.3	275.6	289.6	288.0	286.8	301.6	290.5
Motor vehicles, trailers and semi-trailers	310.0	332.7	339.8	370.1	351.2	264.0	309.0	337.0
Other transport equipment	187.8	209.5	205.9	210.3	216.7	187.1	200.4	211.1
Furniture	133.0	131.1	140.7	140.8	138.9	138.3	170.9	151.0
Other manufacturing	119.8	120.4	119.7	123.4	123.2	120.1	128.4	134.5
Repair and installation of machinery and equipment	214.3	240.6	236.7	278.3	288.5	271.0	243.0	241.7
<b>Total value added</b>	<b>162.3</b>	<b>166.0</b>	<b>170.8</b>	<b>176.7</b>	<b>175.2</b>	<b>165.9</b>	<b>173.8</b>	<b>174.9</b>

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

	Percent							
	2015	2016	2017	2018	2019	2020r	2021r	2022p
Food products	-0.8	1.5	0.7	7.7	-3.3	-4.5	3.8	3.2
Beverages	4.0	-0.6	0.7	-4.0	9.7	-7.2	-0.5	2.4
Tobacco products	-2.8	-9.1	-16.9	-16.6	-7.2	-2.0	-5.5	-10.7
Textiles	-4.1	-3.7	-3.5	-3.0	-7.4	-17.2	-2.9	1.2
Wearing apparel	-1.6	-6.2	-3.1	4.1	-1.4	-14.9	-8.4	-0.5
Leather and related products	-5.7	4.1	4.4	5.0	5.4	-18.0	5.0	29.4
Wood and products of wood and cork	0.7	8.0	7.2	-3.7	2.1	4.2	4.6	5.1
Paper and paper products	0.3	1.6	1.1	3.5	-0.1	3.8	1.9	-6.5
Printing and reproduction of recorded media	-5.0	-3.9	1.6	2.6	-2.0	-7.6	0.7	0.7
Coke and refined petroleum products	8.0	0.9	4.9	4.2	-4.6	-2.3	-1.7	6.3
Chemicals and chemical products	4.7	3.2	4.6	4.5	1.5	0.3	6.5	-6.0
Basic pharmaceutical products and pharmaceutical preparations	5.0	8.3	6.8	11.6	8.2	10.0	6.3	13.8
Rubber and plastics products	6.1	2.6	8.4	-4.0	-4.6	-7.1	3.5	-1.3
Non-metallic mineral products	-3.2	-0.2	-0.6	2.9	3.1	-4.3	2.2	1.3
Basic metals	-1.3	6.0	4.5	0.3	-9.3	-4.5	21.4	-10.6
Fabricated metal products, except machinery and equipment	4.4	8.0	7.2	6.8	1.1	-2.2	4.5	0.2
Computer, electronic and optical products	-2.9	1.7	10.2	5.8	0.2	0.6	6.4	-8.9
Electrical equipment	-2.3	6.1	-3.9	2.3	4.8	2.2	7.4	-2.1
Machinery and equipment not elsewhere classified	4.1	1.0	8.8	5.1	-0.6	-0.4	5.2	-3.7
Motor vehicles, trailers and semi-trailers	4.8	7.3	2.1	8.9	-5.1	-24.8	17.0	9.0
Other transport equipment	-1.5	11.6	-1.7	2.1	3.0	-13.7	7.1	5.3
Furniture	3.6	-1.4	7.3	0.1	-1.4	-0.4	23.6	-11.7
Other manufacturing	2.3	0.5	-0.6	3.1	-0.2	-2.5	6.8	4.8
Repair and installation of machinery and equipment	9.2	12.2	-1.6	17.6	3.6	-6.1	-10.3	-0.6
<b>Total value added</b>	<b>1.5</b>	<b>2.3</b>	<b>2.9</b>	<b>3.5</b>	<b>-0.8</b>	<b>-5.3</b>	<b>4.7</b>	<b>0.7</b>

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

(Millions of Baht)

	2015	2016	2017	2018	2019	2020r	2021r	2022p
Electric power generation, transmission and distribution	320,690	342,598	355,233	379,630	422,913	387,281	387,908	469,616
Manufacture of gas; distribution of gaseous fuels through mains	22,740	30,440	41,224	42,404	23,569	9,895	20,122	34,693
<b>Total value added</b>	<b>343,430</b>	<b>373,038</b>	<b>396,457</b>	<b>422,034</b>	<b>446,482</b>	<b>397,176</b>	<b>408,030</b>	<b>504,309</b>

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

(Million Baht)

	2015	2016	2017	2018	2019	2020r	2021r	2022p
Electric power generation, transmission and distribution	258,484	264,165	267,519	274,669	288,480	265,676	266,825	279,514
Manufacture of gas; distribution of gaseous fuels through mains	16,107	18,291	19,684	19,364	19,564	17,726	16,646	12,740
<b>Total value added</b>	<b>277,958</b>	<b>286,156</b>	<b>291,273</b>	<b>297,762</b>	<b>311,536</b>	<b>286,663</b>	<b>287,437</b>	<b>297,106</b>

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)**

	2015	2016	2017	2018	2019	2020r	2021r	2022p
Electric power generation, transmission and distribution	176.7	180.6	182.9	187.8	197.2	181.6	182.4	191.1
Manufacture of gas; distribution of gaseous fuels through mains	248.6	282.3	303.8	298.9	302.0	273.6	256.9	196.6
<b>Total value added</b>	<b>181.9</b>	<b>187.3</b>	<b>190.7</b>	<b>194.9</b>	<b>203.9</b>	<b>187.6</b>	<b>188.1</b>	<b>194.5</b>

**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

	2015	2016	2017	2018	2019	2020r	2021r	2022p
Electric power generation, transmission and distribution	4.2	2.2	1.3	2.7	5.0	-7.9	0.4	4.8
Manufacture of gas; distribution of gaseous fuels through mains	12.2	13.6	7.6	-1.6	1.0	-9.4	-6.1	-23.5
<b>Total value added</b>	<b>4.9</b>	<b>2.9</b>	<b>1.8</b>	<b>2.2</b>	<b>4.6</b>	<b>-8.0</b>	<b>0.3</b>	<b>3.4</b>

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

	(Millions of Baht)							
	2015	2016	2017	2018	2019	2020r	2021r	2022p
Water collection and supply	43,758	45,240	47,110	47,821	49,910	47,263	48,514	48,899
Waste collection, treatment and disposal activities; materials recover	11,575	13,385	15,256	17,718	19,170	20,932	24,207	27,459
<b>Total value added</b>	<b>55,333</b>	<b>58,625</b>	<b>62,366</b>	<b>65,539</b>	<b>69,080</b>	<b>68,195</b>	<b>72,721</b>	<b>76,358</b>

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

	(Million Baht)							
	2015	2016	2017	2018	2019	2020r	2021r	2022p
Water collection and supply	33,296	35,039	36,758	37,896	39,641	38,569	39,556	40,393
Waste collection, treatment and disposal activities; materials recover	10,520	12,218	13,742	15,750	17,071	18,700	20,387	22,290
<b>Total value added</b>	<b>43,419</b>	<b>46,681</b>	<b>49,776</b>	<b>52,716</b>	<b>55,682</b>	<b>56,075</b>	<b>58,620</b>	<b>61,269</b>

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)**

	2015	2016	2017	2018	2019	2020r	2021r	2022p
Water collection and supply	138.8	146.1	153.3	158.0	165.3	160.8	164.9	168.4
Waste collection, treatment and disposal activities; materials recover	356.4	413.9	465.5	533.5	578.3	633.5	690.6	755.1
<b>Total value added</b>	<b>161.2</b>	<b>173.3</b>	<b>184.8</b>	<b>195.7</b>	<b>206.7</b>	<b>208.2</b>	<b>217.6</b>	<b>227.5</b>

**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							
	2015	2016	2017	2018	2019	2020r	2021r	2022p
Water collection and supply	7.3	5.2	4.9	3.1	4.6	-2.7	2.6	2.1
Waste collection, treatment and disposal activities; materials recover	16.1	16.1	12.5	14.6	8.4	9.5	9.0	9.3
<b>Total value added</b>	<b>9.0</b>	<b>7.5</b>	<b>6.6</b>	<b>5.9</b>	<b>5.6</b>	<b>0.7</b>	<b>4.5</b>	<b>4.5</b>

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

(Millions of Baht)								
	2015	2016	2017	2018	2019	2020r	2021r	2022p
Private construction	162,381	159,667	159,848	168,730	172,204	166,277	167,165	168,688
Public construction	217,559	240,709	234,881	241,427	246,871	255,672	270,501	269,858
<b>Total value added</b>	<b>379,940</b>	<b>400,376</b>	<b>394,729</b>	<b>410,157</b>	<b>419,075</b>	<b>421,949</b>	<b>437,666</b>	<b>438,546</b>

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

(Million Baht)								
	2015	2016	2017	2018	2019	2020r	2021r	2022p
Private construction	115,490	116,279	114,607	119,032	120,551	117,077	116,035	114,056
Public construction	151,730	172,088	165,195	167,182	170,125	177,258	184,815	179,674
<b>Total value added</b>	<b>268,506</b>	<b>289,919</b>	<b>281,274</b>	<b>287,681</b>	<b>292,174</b>	<b>295,932</b>	<b>302,539</b>	<b>295,366</b>

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)**

	2015	2016	2017	2018	2019	2020r	2021r	2022p
Private construction	175.5	176.7	174.1	180.9	183.2	177.9	176.3	173.3
Public construction	150.4	170.5	163.7	165.7	168.6	175.7	183.2	178.1
<b>Total value added</b>	<b>161.1</b>	<b>173.9</b>	<b>168.7</b>	<b>172.6</b>	<b>175.3</b>	<b>177.5</b>	<b>181.5</b>	<b>177.2</b>

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

Percent								
	2015	2016	2017	2018	2019	2020r	2021r	2022p
Private construction	0.8	0.7	-1.4	3.9	1.3	-2.9	-0.9	-1.7
Public construction	32.7	13.4	-4.0	1.2	1.8	4.2	4.3	-2.8
<b>Total value added</b>	<b>17.1</b>	<b>8.0</b>	<b>-3.0</b>	<b>2.3</b>	<b>1.6</b>	<b>1.3</b>	<b>2.2</b>	<b>-2.4</b>

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

(Millions of Baht)

	2015	2016	2017	2018	2019	2020r	2021r	2022p
Trade and repair of motor vehicles and motorcycles	157,198	170,733	186,515	207,316	216,855	200,252	217,924	212,811
Trade, except of motor vehicles and motorcycles	1,809,241	2,016,396	2,193,145	2,373,670	2,527,223	2,447,501	2,411,137	2,466,472
<b>Total value added</b>	<b>1,966,439</b>	<b>2,187,129</b>	<b>2,379,660</b>	<b>2,580,986</b>	<b>2,744,078</b>	<b>2,647,753</b>	<b>2,629,061</b>	<b>2,679,283</b>

**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)

	2015	2016	2017	2018	2019	2020r	2021r	2022p
Trade and repair of motor vehicles and motorcycles	161,986	167,968	176,957	197,451	205,950	188,828	201,447	210,755
Trade, except of motor vehicles and motorcycles	1,178,681	1,253,798	1,335,258	1,414,243	1,476,868	1,434,573	1,450,522	1,502,697
<b>Total value added</b>	<b>1,340,744</b>	<b>1,423,314</b>	<b>1,514,519</b>	<b>1,610,858</b>	<b>1,682,047</b>	<b>1,626,590</b>	<b>1,651,522</b>	<b>1,712,328</b>

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)**

	2015	2016	2017	2018	2019	2020r	2021r	2022p
Trade and repair of motor vehicles and motorcycles	187.5	194.5	204.9	228.6	238.4	218.6	233.2	244.0
Trade, except of motor vehicles and motorcycles	143.9	153.1	163.0	172.6	180.3	175.1	177.1	183.4
<b>Total value added</b>	<b>148.1</b>	<b>157.2</b>	<b>167.2</b>	<b>177.9</b>	<b>185.7</b>	<b>179.6</b>	<b>182.4</b>	<b>189.1</b>

**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

	2015	2016	2017	2018	2019	2020r	2021r	2022p
Trade and repair of motor vehicles and motorcycles	2.1	3.7	5.4	11.6	4.3	-8.3	6.7	4.6
Trade, except of motor vehicles and motorcycles	5.9	6.4	6.5	5.9	4.4	-2.9	1.1	3.6
<b>Total value added</b>	<b>5.6</b>	<b>6.2</b>	<b>6.4</b>	<b>6.4</b>	<b>4.4</b>	<b>-3.3</b>	<b>1.5</b>	<b>3.7</b>



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

	(Millions of Baht)							
	2015	2016	2017	2018	2019	2020r	2021r	2022p
Land transport and transport via pipelines	312,973	354,305	376,326	384,590	399,606	334,914	327,658	352,759
Water transport	147,693	151,448	154,991	160,123	163,791	149,867	142,834	144,359
Air transport	144,481	167,223	182,292	181,421	174,099	67,416	48,548	74,824
Warehousing and support activities for transportation	148,170	160,545	170,138	185,903	197,374	140,028	142,690	161,669
Postal and courier activities	25,818	31,035	36,894	43,029	49,075	59,355	82,578	85,761
<b>Total value added</b>	<b>779,135</b>	<b>864,556</b>	<b>920,641</b>	<b>955,066</b>	<b>983,945</b>	<b>751,580</b>	<b>744,308</b>	<b>819,372</b>

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

	(Million Baht)							
	2015	2016	2017	2018	2019	2020r	2021r	2022p
Land transport and transport via pipelines	196,135	200,460	214,880	218,757	222,983	184,903	180,102	188,240
Water transport	114,690	119,062	120,224	125,020	125,736	123,437	115,644	115,819
Air transport	175,322	200,281	237,820	238,529	238,288	88,986	59,380	94,368
Warehousing and support activities for transportation	108,208	111,538	115,776	126,499	134,491	100,292	100,636	109,298
Postal and courier activities	17,742	20,284	23,611	27,620	31,388	37,645	52,110	54,279
<b>Total value added</b>	<b>607,677</b>	<b>639,932</b>	<b>691,355</b>	<b>718,049</b>	<b>737,410</b>	<b>572,017</b>	<b>558,852</b>	<b>603,413</b>

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)**

	2015	2016	2017	2018	2019	2020r	2021r	2022p
Land transport and transport via pipelines	113.1	115.6	123.9	126.2	128.6	106.6	103.9	108.6
Water transport	234.6	243.5	245.9	255.7	257.2	252.5	236.5	236.9
Air transport	181.1	206.9	245.7	246.4	246.2	91.9	61.3	97.5
Warehousing and support activities for transportation	240.5	247.9	257.3	281.2	298.9	222.9	223.7	242.9
Postal and courier activities	197.2	225.5	262.5	307.1	348.9	418.5	579.3	603.4
<b>Total value added</b>	<b>162.9</b>	<b>171.5</b>	<b>185.3</b>	<b>192.5</b>	<b>197.7</b>	<b>153.3</b>	<b>149.8</b>	<b>161.8</b>

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

	Percent							
	2015	2016	2017	2018	2019	2020r	2021r	2022p
Land transport and transport via pipelines	-3.6	2.2	7.2	1.8	1.9	-17.1	-2.6	4.5
Water transport	6.3	3.8	1.0	4.0	0.6	-1.8	-6.3	0.2
Air transport	11.9	14.2	18.7	0.3	-0.1	-62.7	-33.3	58.9
Warehousing and support activities for transportation	11.8	3.1	3.8	9.3	6.3	-25.4	0.3	8.6
Postal and courier activities	-0.3	14.3	16.4	17.0	13.6	19.9	38.4	4.2
<b>Total value added</b>	<b>4.0</b>	<b>5.3</b>	<b>8.0</b>	<b>3.9</b>	<b>2.7</b>	<b>-22.4</b>	<b>-2.3</b>	<b>8.0</b>

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

(Millions of Baht)

	2015	2016	2017	2018	2019	2020r	2021r	2022p
Accommodation	265,728	311,783	368,051	417,365	455,149	165,368	89,709	183,729
Food and beverage service activities	334,490	385,027	449,275	505,438	576,082	439,877	425,595	557,004
<b>Total value added</b>	<b>600,218</b>	<b>696,810</b>	<b>817,326</b>	<b>922,803</b>	<b>1,031,231</b>	<b>605,245</b>	<b>515,304</b>	<b>740,733</b>

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

(Million Baht)

	2015	2016	2017	2018	2019	2020r	2021r	2022p
Accommodation	244,609	265,235	291,193	312,081	332,503	167,828	109,288	204,555
Food and beverage service activities	256,214	281,625	314,425	341,587	370,566	270,708	250,227	308,895
<b>Total value added</b>	<b>496,112</b>	<b>542,053</b>	<b>600,672</b>	<b>648,597</b>	<b>697,935</b>	<b>440,306</b>	<b>374,133</b>	<b>503,356</b>

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)**

	2015	2016	2017	2018	2019	2020r	2021r	2022p
Accommodation	307.2	333.1	365.7	391.9	417.6	210.8	137.2	256.9
Food and beverage service activities	186.7	205.2	229.1	248.9	270.1	197.3	182.4	225.1
<b>Total value added</b>	<b>228.8</b>	<b>250.0</b>	<b>277.0</b>	<b>299.1</b>	<b>321.9</b>	<b>203.0</b>	<b>172.5</b>	<b>232.1</b>

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

Percent

	2015	2016	2017	2018	2019	2020r	2021r	2022p
Accommodation	21.5	8.4	9.8	7.2	6.5	-49.5	-34.9	87.2
Food and beverage service activities	10.4	9.9	11.6	8.6	8.5	-26.9	-7.6	23.4
<b>Total value added</b>	<b>15.0</b>	<b>9.3</b>	<b>10.8</b>	<b>8.0</b>	<b>7.6</b>	<b>-36.9</b>	<b>-15.0</b>	<b>34.5</b>

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

(Millions of Baht)

	2015	2016	2017	2018	2019	2020r	2021r	2022p
Publishing activities	16,397	17,441	15,972	14,471	14,199	13,569	12,659	12,682
Motion picture, video and television programme production, sound recording and music publishing activities	8,630	8,751	8,770	9,024	9,261	7,619	6,538	6,806
Programming and broadcasting activities	27,844	27,223	27,571	27,750	28,214	27,705	28,246	29,897
Telecommunications	179,459	183,855	202,056	222,792	262,298	264,144	278,551	287,975
Computer programming, consultancy and related activities	92,047	96,750	103,565	109,601	112,091	115,453	125,423	143,720
Information service activities	3,017	3,463	3,881	4,659	5,351	6,117	6,974	8,224
<b>Total value added</b>	<b>327,394</b>	<b>337,483</b>	<b>361,815</b>	<b>388,297</b>	<b>431,414</b>	<b>434,607</b>	<b>458,391</b>	<b>489,304</b>

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

(Million Baht)

	2015	2016	2017	2018	2019	2020r	2021r	2022p
Publishing activities	14,503	15,401	14,222	13,105	12,887	12,309	11,429	11,337
Motion picture, video and television programme production, sound recording and music publishing activities	6,151	6,162	6,149	6,301	6,416	5,205	4,406	4,423
Programming and broadcasting activities	19,810	19,335	19,432	19,361	19,547	19,342	19,380	19,342
Telecommunications	376,620	381,929	398,348	452,172	537,235	544,969	580,687	608,359
Computer programming, consultancy and related activities	66,716	70,004	74,361	77,883	79,092	82,145	87,901	94,753
Information service activities	2,185	2,503	2,783	3,306	3,771	4,345	4,868	5,413
<b>Total value added</b>	<b>468,111</b>	<b>479,365</b>	<b>497,972</b>	<b>541,729</b>	<b>603,743</b>	<b>612,488</b>	<b>646,386</b>	<b>679,804</b>

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)**

	2015	2016	2017	2018	2019	2020r	2021r	2022p
Publishing activities	135.1	143.5	132.5	122.1	120.0	114.7	106.5	105.6
Motion picture, video and television programme production, sound recording and music publishing activities	132.3	132.5	132.2	135.5	138.0	111.9	94.8	95.1
Programming and broadcasting activities	133.5	130.3	131.0	130.5	131.8	130.4	130.6	130.4
Telecommunications	388.4	393.9	410.8	466.3	554.1	562.0	598.9	627.4
Computer programming, consultancy and related activities	484.3	508.2	539.8	565.4	574.2	596.3	638.1	687.9
Information service activities	291.3	333.7	371.1	440.8	502.8	579.3	649.1	721.7
<b>Total value added</b>	<b>330.3</b>	<b>338.3</b>	<b>351.4</b>	<b>382.3</b>	<b>426.1</b>	<b>432.2</b>	<b>456.1</b>	<b>479.7</b>

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

Percent

	2015	2016	2017	2018	2019	2020r	2021r	2022p
Publishing activities	12.8	6.2	-7.7	-7.9	-1.7	-4.5	-7.1	-0.8
Motion picture, video and television programme production, sound recording and music publishing activities	13.3	0.2	-0.2	2.5	1.8	-18.9	-15.4	0.4
Programming and broadcasting activities	1.9	-2.4	0.5	-0.4	1.0	-1.0	0.2	-0.2
Telecommunications	10.0	1.4	4.3	13.5	18.8	1.4	6.6	4.8
Computer programming, consultancy and related activities	12.2	4.9	6.2	4.7	1.6	3.9	7.0	7.8
Information service activities	13.9	14.6	11.2	18.8	14.1	15.2	12.0	11.2
<b>Total value added</b>	<b>10.1</b>	<b>2.4</b>	<b>3.9</b>	<b>8.8</b>	<b>11.4</b>	<b>1.4</b>	<b>5.5</b>	<b>5.2</b>

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

(Millions of Baht)

	2015	2016	2017	2018	2019	2020r	2021r	2022p
Financial service activities	825,929	872,096	916,368	953,970	977,826	1,009,548	1,047,279	1,155,529
Insurance, reinsurance and pension funding	171,988	204,467	216,709	234,198	238,101	229,683	237,394	244,673
Activities auxiliary to financial service and insurance activities	40,049	44,391	48,169	52,709	51,205	50,320	62,736	56,235
<b>Total value added</b>	<b>1,037,966</b>	<b>1,120,954</b>	<b>1,181,246</b>	<b>1,240,877</b>	<b>1,267,132</b>	<b>1,289,551</b>	<b>1,347,409</b>	<b>1,456,437</b>

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

(Million Baht)

	2015	2016	2017	2018	2019	2020r	2021r	2022p
Financial service activities	492,212	513,978	549,750	564,571	577,653	621,743	657,375	648,010
Insurance, reinsurance and pension funding	124,147	147,399	155,011	165,748	167,306	162,224	164,641	160,106
Activities auxiliary to financial service and insurance activities	28,901	31,993	34,446	37,296	35,972	35,531	43,498	36,789
<b>Total value added</b>	<b>652,506</b>	<b>698,410</b>	<b>744,929</b>	<b>772,489</b>	<b>786,463</b>	<b>827,899</b>	<b>874,484</b>	<b>854,273</b>

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)**

	2015	2016	2017	2018	2019	2020r	2021r	2022p
Financial service activities	236.8	247.3	264.5	271.6	277.9	299.2	316.3	311.8
Insurance, reinsurance and pension funding	236.6	280.9	295.4	315.9	318.8	309.1	313.8	305.1
Activities auxiliary to financial service and insurance activities	177.2	196.2	211.2	228.7	220.6	217.9	266.7	225.6
<b>Total value added</b>	<b>235.9</b>	<b>252.5</b>	<b>269.3</b>	<b>279.3</b>	<b>284.3</b>	<b>299.3</b>	<b>316.1</b>	<b>308.8</b>

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

Percent

	2015	2016	2017	2018	2019	2020r	2021r	2022p
Financial service activities	8.0	4.4	7.0	2.7	2.3	7.6	5.7	-1.4
Insurance, reinsurance and pension funding	12.3	18.7	5.2	6.9	0.9	-3.0	1.5	-2.8
Activities auxiliary to financial service and insurance activities	0.6	10.7	7.7	8.3	-3.5	-1.2	22.4	-15.4
<b>Total value added</b>	<b>8.4</b>	<b>7.0</b>	<b>6.7</b>	<b>3.7</b>	<b>1.8</b>	<b>5.3</b>	<b>5.6</b>	<b>-2.3</b>

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

	(Millions of Baht)							
	2015	2016	2017	2018	2019	2020r	2021r	2022p
Real estate activities with own or leased property	296,728	316,689	339,204	358,931	377,313	392,719	404,142	416,746
Real estate activities on a fee or contract basis	35,760	37,486	38,151	41,135	40,387	35,486	32,292	32,053
<b>Total value added</b>	<b>332,488</b>	<b>354,175</b>	<b>377,355</b>	<b>400,066</b>	<b>417,700</b>	<b>428,205</b>	<b>436,434</b>	<b>448,799</b>

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

	(Million Baht)							
	2015	2016	2017	2018	2019	2020r	2021r	2022p
Real estate activities with own or leased property	317,662	340,437	364,679	383,979	401,184	413,374	424,654	436,299
Real estate activities on a fee or contract basis	26,056	27,623	28,429	30,362	29,638	25,958	23,255	22,493
<b>Total value added</b>	<b>344,220</b>	<b>368,471</b>	<b>393,071</b>	<b>414,466</b>	<b>430,113</b>	<b>436,760</b>	<b>443,923</b>	<b>454,117</b>

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)**

	2015	2016	2017	2018	2019	2020r	2021r	2022p
Real estate activities with own or leased property	146.9	157.5	168.7	177.6	185.6	191.2	196.4	201.8
Real estate activities on a fee or contract basis	188.3	199.6	205.4	219.4	214.1	187.5	168.0	162.5
<b>Total value added</b>	<b>149.6</b>	<b>160.2</b>	<b>170.9</b>	<b>180.2</b>	<b>187.0</b>	<b>189.9</b>	<b>193.0</b>	<b>197.4</b>

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

	Percent							
	2015	2016	2017	2018	2019	2020r	2021r	2022p
Real estate activities with own or leased property	1.8	7.2	7.1	5.3	4.5	3.0	2.7	2.7
Real estate activities on a fee or contract basis	-1.2	6.0	2.9	6.8	-2.4	-12.4	-10.4	-3.3
<b>Total value added</b>	<b>1.5</b>	<b>7.0</b>	<b>6.7</b>	<b>5.4</b>	<b>3.8</b>	<b>1.5</b>	<b>1.6</b>	<b>2.3</b>

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

(Millions of Baht)

	2015	2016	2017	2018	2019	2020r	2021r	2022p
Legal and accounting activities	13,476	14,539	15,499	16,022	16,417	15,570	15,021	15,066
Activities of head offices; management consultancy activities	178,109	173,651	188,049	197,146	202,015	185,102	180,560	194,374
Architectural and engineering activities; technical testing and analysis	17,120	17,095	17,927	18,361	18,248	17,151	15,750	15,078
Scientific research and development	24,198	23,569	26,151	26,780	27,219	30,319	35,537	39,140
Advertising and market research	13,496	13,040	14,046	14,108	14,224	14,486	14,486	15,443
Other professional, scientific and technical activities	14,371	12,321	12,039	11,307	11,236	11,384	11,224	12,281
Veterinary activities	620	732	927	1,111	1,330	1,407	1,637	1,832
<b>Total value added</b>	<b>261,390</b>	<b>254,947</b>	<b>274,638</b>	<b>284,835</b>	<b>290,689</b>	<b>275,419</b>	<b>274,215</b>	<b>293,214</b>

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

(Million Baht)

	2015	2016	2017	2018	2019	2020r	2021r	2022p
Legal and accounting activities	9,859	10,658	11,200	11,464	11,721	11,105	10,411	9,977
Activities of head offices; management consultancy activities	130,239	127,233	135,822	140,976	144,137	132,891	125,965	127,876
Architectural and engineering activities; technical testing and analysis	12,516	12,523	12,945	13,128	13,018	12,226	10,910	9,980
Scientific research and development	17,705	17,279	18,898	19,167	19,438	21,628	24,634	25,664
Advertising and market research	9,871	9,556	10,147	10,088	10,148	10,329	10,036	10,223
Other professional, scientific and technical activities	22,254	19,262	18,853	17,935	17,992	18,159	18,088	18,517
Veterinary activities	551	647	809	958	1,138	1,216	1,418	1,627
<b>Total value added</b>	<b>199,458</b>	<b>194,998</b>	<b>207,217</b>	<b>212,968</b>	<b>216,952</b>	<b>206,347</b>	<b>199,998</b>	<b>202,210</b>

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)**

	2015	2016	2017	2018	2019	2020r	2021r	2022p
Legal and accounting activities	143.8	155.5	163.4	167.2	171.0	162.0	151.9	145.5
Activities of head offices; management consultancy activities	175.7	171.7	183.3	190.2	194.5	179.3	170.0	172.5
Architectural and engineering activities; technical testing and analysis	207.6	207.7	214.7	217.8	216.0	202.8	181.0	165.6
Scientific research and development	4,297.3	4,193.9	4,586.9	4,652.2	4,718.0	5,249.5	5,979.1	6,229.1
Advertising and market research	162.1	156.9	166.6	165.6	166.6	169.6	164.8	167.8
Other professional, scientific and technical activities	515.5	446.2	436.7	415.5	416.8	420.6	419.0	428.9
Veterinary activities	364.9	428.5	535.8	634.4	753.6	805.3	939.1	1,077.5
<b>Total value added</b>	<b>203.6</b>	<b>199.0</b>	<b>211.5</b>	<b>217.4</b>	<b>221.4</b>	<b>210.6</b>	<b>204.1</b>	<b>206.4</b>

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

Percent

	2015	2016	2017	2018	2019	2020r	2021r	2022p
Legal and accounting activities	9.3	8.1	5.1	2.4	2.2	-5.3	-6.2	-4.2
Activities of head offices; management consultancy activities	-3.2	-2.3	6.8	3.8	2.2	-7.8	-5.2	1.5
Architectural and engineering activities; technical testing and analysis	3.9	0.1	3.4	1.4	-0.8	-6.1	-10.8	-8.5
Scientific research and development	-3.6	-2.4	9.4	1.4	1.4	11.3	13.9	4.2
Advertising and market research	1.8	-3.2	6.2	-0.6	0.6	1.8	-2.8	1.9
Other professional, scientific and technical activities	5.7	-13.4	-2.1	-4.9	0.3	0.9	-0.4	2.4
Veterinary activities	20.8	17.4	25.0	18.4	18.8	6.9	16.6	14.7
<b>Total value added</b>	<b>-1.5</b>	<b>-2.2</b>	<b>6.3</b>	<b>2.8</b>	<b>1.9</b>	<b>-4.9</b>	<b>-3.1</b>	<b>1.1</b>

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

(Millions of Baht)

	2015	2016	2017	2018	2019	2020r	2021r	2022p
Rental and leasing activities	74,741	73,670	73,324	76,163	77,554	73,222	68,415	70,455
Employment activities	11,396	11,938	12,370	12,761	13,242	12,091	12,675	13,798
Travel agency, tour operator, reservation service and related activities	40,672	44,155	52,294	57,401	61,069	14,580	4,207	12,417
Security and investigation activities	13,931	14,824	15,346	16,410	16,805	15,754	15,915	16,404
Services to buildings and landscape activities	17,712	18,850	19,558	20,230	20,792	19,593	19,591	20,961
Office administrative, office support and other business support activities	78,574	77,056	78,713	80,277	81,257	76,741	80,900	84,675
<b>Total value added</b>	<b>237,026</b>	<b>240,493</b>	<b>251,605</b>	<b>263,242</b>	<b>270,719</b>	<b>211,981</b>	<b>201,703</b>	<b>218,710</b>

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

(Million Baht)

	2015	2016	2017	2018	2019	2020r	2021r	2022p
Rental and leasing activities	54,668	53,963	52,945	54,425	55,152	52,247	47,292	46,763
Employment activities	8,341	8,750	8,938	9,124	9,422	8,569	8,703	9,096
Travel agency, tour operator, reservation service and related activities	25,296	27,334	31,807	34,449	36,305	8,660	2,399	6,621
Security and investigation activities	10,190	10,860	11,082	11,727	11,951	11,157	10,919	10,807
Services to buildings and landscape activities	12,952	13,805	14,120	14,454	14,783	13,872	13,439	13,806
Office administrative, office support and other business support activities	57,505	56,476	56,870	57,395	57,813	54,947	56,117	56,396
<b>Total value added</b>	<b>169,527</b>	<b>172,062</b>	<b>177,330</b>	<b>183,491</b>	<b>187,600</b>	<b>147,248</b>	<b>135,711</b>	<b>141,082</b>

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)**

	2015	2016	2017	2018	2019	2020r	2021r	2022p
Rental and leasing activities	143.6	141.8	139.1	143.0	144.9	137.2	124.2	122.8
Employment activities	412.7	433.0	442.3	451.5	466.2	424.0	430.6	450.1
Travel agency, tour operator, reservation service and related activities	168.0	181.5	211.2	228.8	241.1	57.5	15.9	44.0
Security and investigation activities	337.2	359.4	366.7	388.1	395.5	369.2	361.3	357.6
Services to buildings and landscape activities	198.7	211.7	216.6	221.7	226.7	212.8	206.1	211.7
Office administrative, office support and other business support activities	181.4	178.1	179.4	181.0	182.3	173.3	177.0	177.9
<b>Total value added</b>	<b>175.9</b>	<b>178.5</b>	<b>184.0</b>	<b>190.3</b>	<b>194.6</b>	<b>152.8</b>	<b>140.8</b>	<b>146.4</b>

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

Percent

	2015	2016	2017	2018	2019	2020r	2021r	2022p
Rental and leasing activities	0.3	-1.3	-1.9	2.8	1.3	-5.3	-9.5	-1.1
Employment activities	12.2	4.9	2.1	2.1	3.3	-9.1	1.6	4.5
Travel agency, tour operator, reservation service and related activities	11.4	8.1	16.4	8.3	5.4	-76.1	-72.3	176.0
Security and investigation activities	11.0	6.6	2.0	5.8	1.9	-6.6	-2.1	-1.0
Services to buildings and landscape activities	5.1	6.6	2.3	2.4	2.3	-6.2	-3.1	2.7
Office administrative, office support and other business support activities	0.3	-1.8	0.7	0.9	0.7	-5.0	2.1	0.5
<b>Total value added</b>	<b>3.6</b>	<b>1.5</b>	<b>3.1</b>	<b>3.5</b>	<b>2.2</b>	<b>-21.5</b>	<b>-7.8</b>	<b>4.0</b>

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

(Millions of Baht)

	2015	2016	2017	2018	2019	2020r	2021r	2022p
Creative, arts and entertainment activities	2,205	2,117	2,138	2,183	2,218	2,069	1,980	2,027
Libraries, archives, museums and other cultural activities	387	415	430	412	376	277	206	194
Gambling and betting activities	38,570	48,192	57,255	66,911	79,687	71,144	82,518	87,738
Sport activities and amusement and recreation activities	28,983	30,429	31,247	32,905	34,413	28,803	23,785	22,700
<b>Total value added</b>	<b>70,145</b>	<b>81,153</b>	<b>91,070</b>	<b>102,411</b>	<b>116,694</b>	<b>102,293</b>	<b>108,489</b>	<b>112,659</b>

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

(Million Baht)

	2015	2016	2017	2018	2019	2020r	2021r	2022p
Creative, arts and entertainment activities	2,106	2,021	2,040	2,080	2,098	1,956	1,875	1,917
Libraries, archives, museums and other cultural activities	467	498	520	519	472	334	255	265
Gambling and betting activities	28,561	38,507	45,432	52,549	62,753	55,709	64,406	65,440
Sport activities and amusement and recreation activities	43,799	46,162	47,862	51,156	54,035	44,874	36,805	36,027
<b>Total value added</b>	<b>66,670</b>	<b>80,861</b>	<b>90,652</b>	<b>101,747</b>	<b>116,455</b>	<b>101,477</b>	<b>107,208</b>	<b>108,072</b>

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)**

	2015	2016	2017	2018	2019	2020r	2021r	2022p
Creative, arts and entertainment activities	337.5	323.9	326.9	333.3	336.2	313.5	300.5	307.2
Libraries, archives, museums and other cultural activities	137.4	146.5	152.9	152.6	138.8	98.2	75.0	77.9
Gambling and betting activities	227.2	306.3	361.3	418.0	499.1	443.1	512.3	520.5
Sport activities and amusement and recreation activities	425.1	448.0	464.5	496.5	524.4	435.5	357.2	349.6
<b>Total value added</b>	<b>279.6</b>	<b>339.2</b>	<b>380.2</b>	<b>426.8</b>	<b>488.5</b>	<b>425.6</b>	<b>449.7</b>	<b>453.3</b>

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

Percent

	2015	2016	2017	2018	2019	2020r	2021r	2022p
Creative, arts and entertainment activities	9.0	-4.0	0.9	2.0	0.9	-6.8	-4.1	2.2
Libraries, archives, museums and other cultural activities	17.0	6.6	4.4	-0.2	-9.1	-29.2	-23.7	3.9
Gambling and betting activities	4.7	34.8	18.0	15.7	19.4	-11.2	15.6	1.6
Sport activities and amusement and recreation activities	16.2	5.4	3.7	6.9	5.6	-17.0	-18.0	-2.1
<b>Total value added</b>	<b>9.2</b>	<b>21.3</b>	<b>12.1</b>	<b>12.2</b>	<b>14.5</b>	<b>-12.9</b>	<b>5.6</b>	<b>0.8</b>



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

(Millions of Baht)

	2015	2016	2017	2018	2019	2020r	2021r	2022p
Activities of membership organizations	28,759	29,155	30,280	31,797	31,984	30,476	28,828	29,804
Repair of computers and personal and household goods	83,900	88,027	94,195	99,540	103,771	100,453	101,418	106,781
Other personal service activities	73,010	76,508	79,959	84,997	87,213	71,859	63,246	71,213
<b>Total value added</b>	<b>185,669</b>	<b>193,690</b>	<b>204,434</b>	<b>216,334</b>	<b>222,968</b>	<b>202,788</b>	<b>193,492</b>	<b>207,798</b>

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

(Million Baht)

	2015	2016	2017	2018	2019	2020r	2021r	2022p
Activities of membership organizations	20,395	20,634	21,288	22,116	22,091	21,186	19,707	19,178
Repair of computers and personal and household goods	64,176	67,661	72,047	74,672	77,946	77,081	77,126	76,953
Other personal service activities	54,492	56,211	58,199	61,084	62,186	51,399	44,513	47,653
<b>Total value added</b>	<b>139,542</b>	<b>144,950</b>	<b>151,937</b>	<b>158,319</b>	<b>162,608</b>	<b>149,774</b>	<b>141,137</b>	<b>143,661</b>

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)**

	2015	2016	2017	2018	2019	2020r	2021r	2022p
Activities of membership organizations	238.3	241.1	248.8	258.5	258.2	247.6	230.3	224.1
Repair of computers and personal and household goods	239.7	252.7	269.1	278.9	291.1	287.9	288.1	287.4
Other personal service activities	109.0	112.4	116.4	122.1	124.4	102.8	89.0	95.3
<b>Total value added</b>	<b>163.5</b>	<b>169.9</b>	<b>178.0</b>	<b>185.5</b>	<b>190.5</b>	<b>175.5</b>	<b>165.4</b>	<b>168.3</b>

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

Percent

	2015	2016	2017	2018	2019	2020r	2021r	2022p
Activities of membership organizations	3.3	1.2	3.2	3.9	-0.1	-4.1	-7.0	-2.7
Repair of computers and personal and household goods	3.6	5.4	6.5	3.6	4.4	-1.1	0.1	-0.2
Other personal service activities	2.3	3.2	3.5	5.0	1.8	-17.3	-13.4	7.1
<b>Total value added</b>	<b>3.1</b>	<b>3.9</b>	<b>4.8</b>	<b>4.2</b>	<b>2.7</b>	<b>-7.9</b>	<b>-5.8</b>	<b>1.8</b>

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

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

(Millions of Baht)

	2015	2016	2017	2018	2019	2020r	2021r	2022p
<b>Individual consumption expenditure of households</b>	<b>7,959,989</b>	<b>8,310,891</b>	<b>8,811,308</b>	<b>9,237,853</b>	<b>9,676,340</b>	<b>8,384,804</b>	<b>8,321,824</b>	<b>9,582,052</b>
<b>Food and non-alcoholic</b>	<b>1,961,940</b>	<b>2,038,672</b>	<b>2,061,402</b>	<b>2,091,895</b>	<b>2,210,373</b>	<b>2,291,399</b>	<b>2,356,650</b>	<b>2,554,110</b>
Food	1,710,676	1,784,477	1,804,992	1,825,223	1,933,921	2,016,982	2,080,433	2,257,604
Bread and cereals	380,171	387,110	386,122	394,248	419,529	444,552	446,898	470,552
Meat	215,353	221,986	222,618	218,083	230,891	245,115	252,675	307,476
Fish	199,793	208,266	215,204	215,800	222,767	231,665	233,400	245,193
Milk, cheese and eggs	140,695	147,765	151,743	156,611	157,910	165,018	172,620	189,916
Oil and fat	89,637	83,462	85,254	82,732	82,142	88,148	99,873	112,506
Fruit	163,158	171,016	178,307	187,984	199,970	203,664	210,914	217,775
Vegetables	408,782	449,152	446,836	446,885	489,669	503,616	525,108	565,747
Sugar, jam, honey, chocolate and confectionery	53,958	53,915	54,987	55,660	57,957	58,951	59,360	63,975
Food products n.e.c.	59,129	61,805	63,921	67,220	73,086	76,253	79,585	84,464
Non-alcoholic beverages	251,264	254,195	256,410	266,672	276,452	274,417	276,217	296,506
<b>Alcoholic beverages, tobacco and narcotic</b>	<b>270,515</b>	<b>281,891</b>	<b>287,214</b>	<b>289,185</b>	<b>291,797</b>	<b>278,123</b>	<b>275,265</b>	<b>286,087</b>
Alcoholic beverages	184,085	181,524	180,667	176,742	181,263	169,946	167,775	175,179
Tobacco	86,430	100,367	106,547	112,443	110,534	108,177	107,490	110,908
<b>Clothing and footwear</b>	<b>348,188</b>	<b>363,489</b>	<b>371,511</b>	<b>382,354</b>	<b>392,746</b>	<b>318,973</b>	<b>291,122</b>	<b>300,992</b>
Clothing	315,305	329,545	336,975	347,092	356,725	289,059	264,935	273,478
Footwear	32,883	33,944	34,536	35,262	36,021	29,914	26,187	27,514
<b>Housing, water, electricity, gas and other fuels</b>	<b>718,604</b>	<b>737,130</b>	<b>766,719</b>	<b>799,986</b>	<b>839,689</b>	<b>857,802</b>	<b>885,338</b>	<b>949,037</b>
Housing and water	490,782	512,892	542,686	566,643	586,248	600,007	616,663	632,749
Electricity, gas and other fuels	227,822	224,238	224,033	233,343	253,441	257,795	268,675	316,288
<b>Furnishings, households equipment and routine maintenance of the house</b>	<b>332,920</b>	<b>334,813</b>	<b>342,918</b>	<b>359,610</b>	<b>369,194</b>	<b>353,630</b>	<b>355,717</b>	<b>364,675</b>
Furniture and furnishings, carpets and other floor covering	26,686	26,572	27,117	28,798	29,101	27,918	27,731	29,035
Households equipment and routine maintenance of the house	306,234	308,241	315,801	330,812	340,093	325,712	327,986	335,640
<b>Health</b>	<b>358,763</b>	<b>378,323</b>	<b>393,782</b>	<b>414,681</b>	<b>435,494</b>	<b>463,344</b>	<b>505,318</b>	<b>551,734</b>
<b>Transport</b>	<b>1,065,411</b>	<b>1,069,580</b>	<b>1,191,956</b>	<b>1,298,115</b>	<b>1,315,799</b>	<b>1,045,950</b>	<b>1,060,061</b>	<b>1,270,840</b>
Purchase of vehicles	302,467	307,901	369,883	420,017	422,130	340,213	327,826	370,873
Operation of personal transport equipment	408,970	407,185	452,859	494,306	496,593	432,922	492,153	611,237
Transport services	353,974	354,494	369,214	383,792	397,076	272,815	240,082	288,730
<b>Communication</b>	<b>162,153</b>	<b>165,564</b>	<b>175,327</b>	<b>184,058</b>	<b>190,148</b>	<b>192,143</b>	<b>194,537</b>	<b>194,668</b>
<b>Recreation and culture</b>	<b>393,524</b>	<b>454,055</b>	<b>486,072</b>	<b>513,344</b>	<b>528,054</b>	<b>419,179</b>	<b>407,428</b>	<b>431,158</b>
Audio-visual, photographic and information processing equipment	73,874	73,517	78,869	78,702	83,729	86,056	79,669	82,764
Other recreation and entertainment	262,387	325,478	354,117	381,775	392,436	282,786	279,520	299,746
Newspaper, books and stationery	57,263	55,060	53,086	52,867	51,889	50,337	48,239	48,648
<b>Education</b>	<b>101,379</b>	<b>105,648</b>	<b>110,988</b>	<b>117,825</b>	<b>123,425</b>	<b>121,942</b>	<b>122,428</b>	<b>124,416</b>
<b>Restaurants and hotels</b>	<b>1,278,216</b>	<b>1,355,958</b>	<b>1,538,632</b>	<b>1,634,145</b>	<b>1,770,920</b>	<b>898,596</b>	<b>715,056</b>	<b>1,329,635</b>
<b>Miscellaneous goods and services</b>	<b>968,376</b>	<b>1,025,768</b>	<b>1,084,787</b>	<b>1,152,655</b>	<b>1,208,701</b>	<b>1,143,723</b>	<b>1,152,904</b>	<b>1,224,700</b>
Personal care	169,966	176,784	189,010	194,441	208,141	209,506	218,822	232,097
Personal effects n.e.c.	214,836	238,174	258,206	280,564	302,373	261,741	254,456	274,745
Financial services	465,953	489,460	505,023	537,738	553,109	548,315	561,611	592,454
Other services n.e.c.	117,621	121,350	132,548	139,912	145,078	124,161	118,015	125,404
<b>Individual consumption expenditure of non-profit institutions serving households (NPISHs)</b>	<b>144,725</b>	<b>145,949</b>	<b>149,527</b>	<b>152,836</b>	<b>158,180</b>	<b>149,535</b>	<b>144,285</b>	<b>150,672</b>
Health, education, and social protection	77,342	77,148	82,240	84,225	86,678	84,661	82,736	86,269
Other services n.e.c.	67,383	68,801	67,287	68,611	71,502	64,874	61,549	64,403
<b>Private final consumption expenditure in the domestic market</b>	<b>8,104,714</b>	<b>8,456,840</b>	<b>8,960,835</b>	<b>9,390,689</b>	<b>9,834,520</b>	<b>8,534,339</b>	<b>8,466,109</b>	<b>9,732,724</b>
Plus : Expenditure of residents abroad	239,935	290,023	321,458	353,053	344,332	117,886	93,286	211,061
Less : Expenditure of non-residents in the country	1,288,103	1,450,311	1,703,558	1,739,056	1,772,468	344,285	103,516	462,458
<b>Private final consumption expenditure</b>	<b>7,056,546</b>	<b>7,296,552</b>	<b>7,578,735</b>	<b>8,004,686</b>	<b>8,406,384</b>	<b>8,307,940</b>	<b>8,455,879</b>	<b>9,481,327</b>

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

	(Millions of Baht)							
	2015	2016	2017	2018	2019	2020r	2021r	2022p
<b>Individual consumption expenditure of households</b>	<b>5,574,451</b>	<b>5,790,310</b>	<b>6,096,216</b>	<b>6,333,230</b>	<b>6,566,936</b>	<b>5,718,300</b>	<b>5,618,877</b>	<b>6,118,947</b>
<b>Food and non-alcoholic</b>	<b>922,877</b>	<b>942,830</b>	<b>964,750</b>	<b>986,121</b>	<b>1,010,750</b>	<b>1,033,131</b>	<b>1,063,752</b>	<b>1,100,069</b>
Food	732,320	750,117	769,318	785,357	803,665	826,458	852,940	880,215
Bread and cereals	179,856	183,788	185,854	186,585	188,851	194,675	205,332	217,181
Meat	116,748	119,880	123,366	123,639	124,188	126,224	128,470	131,817
Fish	98,943	100,143	101,296	101,412	102,553	105,734	106,408	108,522
Milk, cheese and eggs	90,029	92,279	95,922	99,089	98,873	103,490	107,814	111,801
Oil and fat	47,019	44,770	46,172	48,876	50,708	51,468	53,126	54,165
Fruit	44,704	45,035	47,157	50,851	53,164	54,879	56,746	57,988
Vegetables	97,560	103,191	106,571	108,582	112,485	115,496	119,120	122,359
Sugar, jam, honey, chocolate and confectionery	32,059	31,656	32,152	31,656	32,395	33,108	33,265	33,492
Food products n.e.c.	43,484	44,739	45,039	47,732	51,767	53,026	54,213	55,499
Non-alcoholic beverages	209,597	210,302	211,724	218,356	226,292	221,461	224,111	235,413
<b>Alcoholic beverages, tobacco and narcotic</b>	<b>207,397</b>	<b>200,544</b>	<b>199,363</b>	<b>195,513</b>	<b>199,590</b>	<b>191,186</b>	<b>188,139</b>	<b>191,878</b>
Alcoholic beverages	147,805	142,333	141,439	137,817	142,618	133,596	131,318	135,728
Tobacco	58,224	56,794	56,500	56,012	55,949	55,534	54,747	54,663
<b>Clothing and footwear</b>	<b>288,308</b>	<b>295,285</b>	<b>301,711</b>	<b>305,382</b>	<b>310,754</b>	<b>252,370</b>	<b>229,416</b>	<b>235,822</b>
Clothing	255,767	262,045	267,815	270,849	275,517	223,271	203,739	209,019
Footwear	34,659	35,382	36,064	36,798	37,573	31,166	27,286	28,602
<b>Housing, water, electricity, gas and other fuels</b>	<b>623,768</b>	<b>650,268</b>	<b>677,521</b>	<b>699,039</b>	<b>727,794</b>	<b>751,869</b>	<b>771,334</b>	<b>781,954</b>
Housing and water	467,279	486,145	512,492	532,224	548,854	562,383	577,706	591,138
Electricity, gas and other fuels	152,299	159,461	161,663	164,157	174,854	184,048	188,231	186,726
<b>Furnishings, households equipment and routine maintenance of the house</b>	<b>301,948</b>	<b>303,081</b>	<b>312,445</b>	<b>328,434</b>	<b>338,755</b>	<b>329,851</b>	<b>332,908</b>	<b>336,095</b>
Furniture and furnishings, carpets and other floor covering	26,629	26,326	27,388	29,403	30,057	29,108	28,796	29,422
Households equipment and routine maintenance of the house	274,595	275,988	284,290	298,291	307,906	299,951	303,245	305,836
<b>Health</b>	<b>323,326</b>	<b>338,618</b>	<b>349,200</b>	<b>367,556</b>	<b>386,272</b>	<b>410,461</b>	<b>444,460</b>	<b>480,755</b>
<b>Transport</b>	<b>735,203</b>	<b>767,245</b>	<b>830,591</b>	<b>879,600</b>	<b>890,052</b>	<b>735,502</b>	<b>690,131</b>	<b>750,965</b>
Purchase of vehicles	266,130	270,020	323,504	366,267	368,051	297,396	287,500	322,957
Operation of personal transport equipment	214,534	229,941	235,893	240,197	243,194	232,994	223,457	231,862
Transport services	251,541	260,525	272,858	282,595	287,899	196,099	170,595	195,110
<b>Communication</b>	<b>231,361</b>	<b>236,490</b>	<b>250,854</b>	<b>263,006</b>	<b>271,903</b>	<b>274,760</b>	<b>278,923</b>	<b>279,589</b>
<b>Recreation and culture</b>	<b>372,687</b>	<b>433,406</b>	<b>462,654</b>	<b>484,765</b>	<b>497,524</b>	<b>396,351</b>	<b>384,712</b>	<b>404,448</b>
Audio-visual, photographic and information processing equipment	82,794	81,825	87,695	88,089	94,299	97,039	89,184	89,616
Other recreation and entertainment	232,316	291,970	315,183	336,115	343,709	249,031	245,987	264,090
Newspaper, books and stationery	50,565	48,448	48,000	47,420	46,825	45,277	43,581	43,530
<b>Education</b>	<b>94,088</b>	<b>95,519</b>	<b>98,168</b>	<b>103,197</b>	<b>107,705</b>	<b>106,335</b>	<b>108,004</b>	<b>109,515</b>
<b>Restaurants and hotels</b>	<b>915,296</b>	<b>964,207</b>	<b>1,066,212</b>	<b>1,111,948</b>	<b>1,196,611</b>	<b>621,349</b>	<b>505,624</b>	<b>848,729</b>
<b>Miscellaneous goods and services</b>	<b>669,442</b>	<b>692,665</b>	<b>731,140</b>	<b>772,656</b>	<b>803,372</b>	<b>755,593</b>	<b>752,452</b>	<b>744,601</b>
Personal care	136,415	140,568	149,703	152,578	162,845	163,341	170,121	178,164
Personal effects n.e.c.	131,051	135,051	146,752	162,427	171,611	137,865	128,025	125,845
Financial services	307,492	319,608	329,098	345,061	353,228	357,737	366,440	354,644
Other services n.e.c.	84,419	86,931	94,324	98,516	101,435	87,369	81,663	81,688
<b>Individual consumption expenditure of non-profit institutions serving households (NPISHs)</b>	<b>101,973</b>	<b>103,575</b>	<b>105,410</b>	<b>106,570</b>	<b>109,521</b>	<b>104,201</b>	<b>98,870</b>	<b>97,192</b>
Health, education, and social protection	54,784	55,040	58,283	59,040	60,332	59,307	56,994	55,943
Other services n.e.c.	47,193	48,531	47,149	47,553	49,207	44,933	41,920	41,292
<b>Private final consumption expenditure in the domestic market</b>	<b>5,676,266</b>	<b>5,893,735</b>	<b>6,201,534</b>	<b>6,439,758</b>	<b>6,676,426</b>	<b>5,822,302</b>	<b>5,717,624</b>	<b>6,216,157</b>
Plus : Expenditure of residents abroad	181,197	218,528	240,633	261,521	253,229	87,252	67,994	144,451
Less : Expenditure of non-residents in the country	987,273	1,107,337	1,294,919	1,314,275	1,326,724	265,203	88,337	363,263
<b>Private final consumption expenditure</b>	<b>4,909,901</b>	<b>5,051,349</b>	<b>5,207,330</b>	<b>5,445,519</b>	<b>5,661,479</b>	<b>5,617,253</b>	<b>5,651,161</b>	<b>5,999,291</b>

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)**

	2015	2016	2017	2018	2019	2020r	2021r	2022p
<b>Individual consumption expenditure of households</b>	<b>166.4</b>	<b>172.8</b>	<b>181.9</b>	<b>189.0</b>	<b>196.0</b>	<b>170.7</b>	<b>167.7</b>	<b>182.6</b>
<b>Food and non-alcoholic</b>	<b>127.5</b>	<b>130.2</b>	<b>133.3</b>	<b>136.2</b>	<b>139.6</b>	<b>142.7</b>	<b>146.9</b>	<b>152.0</b>
Food	118.9	121.8	124.9	127.5	130.5	134.2	138.5	142.9
Bread and cereals	121.0	123.6	125.0	125.5	127.0	131.0	138.1	146.1
Meat	134.8	138.4	142.4	142.7	143.4	145.7	148.3	152.2
Fish	125.5	127.0	128.5	128.6	130.0	134.1	134.9	137.6
Milk, cheese and eggs	126.3	129.5	134.6	139.0	138.7	145.2	151.3	156.9
Oil and fat	225.2	214.4	221.1	234.1	242.8	246.5	254.4	259.4
Fruit	82.1	82.7	86.6	93.3	97.6	100.7	104.2	106.4
Vegetables	111.3	117.8	121.6	123.9	128.4	131.8	135.9	139.6
Sugar, jam, honey, chocolate and confectionery	123.8	122.2	124.1	122.2	125.1	127.8	128.4	129.3
Food products n.e.c.	104.5	107.6	108.3	114.8	124.5	127.5	130.3	133.4
Non-alcoholic beverages	194.0	194.6	196.0	202.1	209.4	205.0	207.4	217.9
<b>Alcoholic beverages, tobacco and narcotic</b>	<b>120.6</b>	<b>116.6</b>	<b>115.9</b>	<b>113.7</b>	<b>116.1</b>	<b>111.2</b>	<b>109.4</b>	<b>111.6</b>
Alcoholic beverages	128.1	123.3	122.6	119.4	123.6	115.8	113.8	117.6
Tobacco	102.9	100.4	99.9	99.0	98.9	98.2	96.8	96.6
<b>Clothing and footwear</b>	<b>121.3</b>	<b>124.3</b>	<b>127.0</b>	<b>128.5</b>	<b>130.8</b>	<b>106.2</b>	<b>96.5</b>	<b>99.2</b>
Clothing	115.8	118.6	121.2	122.6	124.7	101.1	92.2	94.6
Footwear	207.4	211.7	215.8	220.1	224.8	186.5	163.2	171.1
<b>Housing, water, electricity, gas and other fuels</b>	<b>164.1</b>	<b>171.1</b>	<b>178.3</b>	<b>184.0</b>	<b>191.5</b>	<b>197.9</b>	<b>203.0</b>	<b>205.8</b>
Housing and water	158.0	164.4	173.3	179.9	185.6	190.1	195.3	199.9
Electricity, gas and other fuels	180.8	189.3	191.9	194.9	207.6	218.5	223.4	221.6
<b>Furnishings, households equipment and routine maintenance of the house</b>	<b>194.5</b>	<b>195.2</b>	<b>201.2</b>	<b>211.5</b>	<b>218.2</b>	<b>212.4</b>	<b>214.4</b>	<b>216.5</b>
Furniture and furnishings, carpets and other floor covering	99.1	98.0	101.9	109.4	111.9	108.3	107.2	109.5
Households equipment and routine maintenance of the house	213.9	215.0	221.4	232.3	239.8	233.6	236.2	238.2
<b>Health</b>	<b>205.2</b>	<b>214.9</b>	<b>221.6</b>	<b>233.3</b>	<b>245.2</b>	<b>260.5</b>	<b>282.1</b>	<b>305.1</b>
<b>Transport</b>	<b>161.4</b>	<b>168.4</b>	<b>182.3</b>	<b>193.1</b>	<b>195.4</b>	<b>161.4</b>	<b>151.5</b>	<b>164.8</b>
Purchase of vehicles	203.6	206.5	247.4	280.2	281.5	227.5	219.9	247.0
Operation of personal transport equipment	135.4	145.1	148.8	151.5	153.4	147.0	141.0	146.3
Transport services	151.2	156.6	164.0	169.9	173.1	117.9	102.5	117.3
<b>Communication</b>	<b>255.0</b>	<b>260.7</b>	<b>276.5</b>	<b>289.9</b>	<b>299.7</b>	<b>302.9</b>	<b>307.5</b>	<b>308.2</b>
<b>Recreation and culture</b>	<b>208.4</b>	<b>242.3</b>	<b>258.6</b>	<b>271.0</b>	<b>278.1</b>	<b>221.6</b>	<b>215.1</b>	<b>226.1</b>
Audio-visual, photographic and information processing equipment	130.1	128.6	137.8	138.5	148.2	152.5	140.2	140.9
Other recreation and entertainment	275.2	345.9	373.4	398.2	407.1	295.0	291.4	312.8
Newspaper, books and stationery	164.0	157.1	155.7	153.8	151.9	146.8	141.3	141.2
<b>Education</b>	<b>165.4</b>	<b>167.9</b>	<b>172.5</b>	<b>181.4</b>	<b>189.3</b>	<b>186.9</b>	<b>189.8</b>	<b>192.5</b>
<b>Restaurants and hotels</b>	<b>213.3</b>	<b>224.7</b>	<b>248.4</b>	<b>259.1</b>	<b>278.8</b>	<b>144.8</b>	<b>117.8</b>	<b>197.8</b>
<b>Miscellaneous goods and services</b>	<b>213.9</b>	<b>221.3</b>	<b>233.6</b>	<b>246.9</b>	<b>256.7</b>	<b>241.5</b>	<b>240.4</b>	<b>237.9</b>
Personal care	211.1	217.6	231.7	236.2	252.0	252.8	263.3	275.8
Personal effects n.e.c.	260.0	267.9	291.2	322.3	340.5	273.5	254.0	249.7
Financial services	235.0	244.2	251.5	263.7	269.9	273.4	280.0	271.0
Other services n.e.c.	125.9	129.6	140.7	146.9	151.3	130.3	121.8	121.8
<b>Individual consumption expenditure of non-profit institutions serving households (NPISHs)</b>	<b>177.9</b>	<b>180.7</b>	<b>183.9</b>	<b>185.9</b>	<b>191.1</b>	<b>181.8</b>	<b>172.5</b>	<b>169.6</b>
Health, education, and social protection	127.0	127.6	135.1	136.8	139.8	137.5	132.1	129.7
Other services n.e.c.	333.0	342.4	332.7	335.5	347.2	317.0	295.8	291.3
<b>Private final consumption expenditure in the domestic market</b>	<b>166.6</b>	<b>172.9</b>	<b>182.0</b>	<b>189.0</b>	<b>195.9</b>	<b>170.8</b>	<b>167.8</b>	<b>182.4</b>
Plus : Expenditure of residents abroad	159.4	192.2	211.7	230.1	222.8	76.8	59.8	127.1
Less : Expenditure of non-residents in the country	318.1	356.8	417.3	423.5	427.5	85.5	28.5	117.1
<b>Private final consumption expenditure</b>	<b>152.9</b>	<b>157.3</b>	<b>162.2</b>	<b>169.6</b>	<b>176.3</b>	<b>174.9</b>	<b>176.0</b>	<b>186.8</b>

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

	2015	2016	2017	2018	2019	2020r	2021r	2022p
	Percent							
<b>Individual consumption expenditure of households</b>	<b>5.1</b>	<b>3.9</b>	<b>5.3</b>	<b>3.9</b>	<b>3.7</b>	<b>-12.9</b>	<b>-1.7</b>	<b>8.9</b>
<b>Food and non-alcoholic</b>	<b>2.2</b>	<b>2.2</b>	<b>2.3</b>	<b>2.2</b>	<b>2.5</b>	<b>2.2</b>	<b>3.0</b>	<b>3.4</b>
Food	2.4	2.4	2.6	2.1	2.3	2.8	3.2	3.2
Bread and cereals	1.1	2.2	1.1	0.4	1.2	3.1	5.5	5.8
Meat	4.0	2.7	2.9	0.2	0.4	1.6	1.8	2.6
Fish	1.1	1.2	1.2	0.1	1.1	3.1	0.6	2.0
Milk, cheese and eggs	0.4	2.5	3.9	3.3	-0.2	4.7	4.2	3.7
Oil and fat	1.0	-4.8	3.1	5.9	3.7	1.5	3.2	2.0
Fruit	1.7	0.7	4.7	7.8	4.5	3.2	3.4	2.2
Vegetables	5.1	5.8	3.3	1.9	3.6	2.7	3.1	2.7
Sugar, jam, honey, chocolate and confectionery	0.0	-1.3	1.6	-1.5	2.3	2.2	0.5	0.7
Food products n.e.c.	3.2	2.9	0.7	6.0	8.5	2.4	2.2	2.4
Non-alcoholic beverages	0.8	0.3	0.7	3.1	3.6	-2.1	1.2	5.0
<b>Alcoholic beverages, tobacco and narcotic</b>	<b>1.6</b>	<b>-3.3</b>	<b>-0.6</b>	<b>-1.9</b>	<b>2.1</b>	<b>-4.2</b>	<b>-1.6</b>	<b>2.0</b>
Alcoholic beverages	1.9	-3.7	-0.6	-2.6	3.5	-6.3	-1.7	3.4
Tobacco	0.9	-2.5	-0.5	-0.9	-0.1	-0.7	-1.4	-0.2
<b>Clothing and footwear</b>	<b>1.3</b>	<b>2.4</b>	<b>2.2</b>	<b>1.2</b>	<b>1.8</b>	<b>-18.8</b>	<b>-9.1</b>	<b>2.8</b>
Clothing	0.8	2.5	2.2	1.1	1.7	-19.0	-8.7	2.6
Footwear	6.4	2.1	1.9	2.0	2.1	-17.1	-12.4	4.8
<b>Housing, water, electricity, gas and other fuels</b>	<b>4.8</b>	<b>4.2</b>	<b>4.2</b>	<b>3.2</b>	<b>4.1</b>	<b>3.3</b>	<b>2.6</b>	<b>1.4</b>
Housing and water	4.1	4.0	5.4	3.9	3.1	2.5	2.7	2.3
Electricity, gas and other fuels	6.2	4.7	1.4	1.5	6.5	5.3	2.3	-0.8
<b>Furnishings, households equipment and routine maintenance of the house</b>	<b>3.2</b>	<b>0.4</b>	<b>3.1</b>	<b>5.1</b>	<b>3.1</b>	<b>-2.6</b>	<b>0.9</b>	<b>1.0</b>
Furniture and furnishings, carpets and other floor covering	3.4	-1.1	4.0	7.4	2.2	-3.2	-1.1	2.2
Households equipment and routine maintenance of the house	3.2	0.5	3.0	4.9	3.2	-2.6	1.1	0.9
<b>Health</b>	<b>3.3</b>	<b>4.7</b>	<b>3.1</b>	<b>5.3</b>	<b>5.1</b>	<b>6.3</b>	<b>8.3</b>	<b>8.2</b>
<b>Transport</b>	<b>3.0</b>	<b>4.4</b>	<b>8.3</b>	<b>5.9</b>	<b>1.2</b>	<b>-17.4</b>	<b>-6.2</b>	<b>8.8</b>
Purchase of vehicles	-9.3	1.5	19.8	13.2	0.5	-19.2	-3.3	12.3
Operation of personal transport equipment	10.0	7.2	2.6	1.8	1.2	-4.2	-4.1	3.8
Transport services	5.7	3.6	4.7	3.6	1.9	-31.9	-13.0	14.4
<b>Communication</b>	<b>6.2</b>	<b>2.2</b>	<b>6.1</b>	<b>4.8</b>	<b>3.4</b>	<b>1.1</b>	<b>1.5</b>	<b>0.2</b>
<b>Recreation and culture</b>	<b>2.1</b>	<b>16.3</b>	<b>6.7</b>	<b>4.8</b>	<b>2.6</b>	<b>-20.3</b>	<b>-2.9</b>	<b>5.1</b>
Audio-visual, photographic and information processing equipment	-15.8	-1.2	7.2	0.4	7.0	2.9	-8.1	0.5
Other recreation and entertainment	10.2	25.7	8.0	6.6	2.3	-27.5	-1.2	7.4
Newspaper, books and stationery	-4.4	-4.2	-0.9	-1.2	-1.3	-3.3	-3.7	-0.1
<b>Education</b>	<b>4.3</b>	<b>1.5</b>	<b>2.8</b>	<b>5.1</b>	<b>4.4</b>	<b>-1.3</b>	<b>1.6</b>	<b>1.4</b>
<b>Restaurants and hotels</b>	<b>12.4</b>	<b>5.3</b>	<b>10.6</b>	<b>4.3</b>	<b>7.6</b>	<b>-48.1</b>	<b>-18.6</b>	<b>67.9</b>
<b>Miscellaneous goods and services</b>	<b>9.7</b>	<b>3.5</b>	<b>5.6</b>	<b>5.7</b>	<b>4.0</b>	<b>-5.9</b>	<b>-0.4</b>	<b>-1.0</b>
Personal care	9.7	3.0	6.5	1.9	6.7	0.3	4.2	4.7
Personal effects n.e.c.	23.1	3.1	8.7	10.7	5.7	-19.7	-7.1	-1.7
Financial services	5.2	3.9	3.0	4.9	2.4	1.3	2.4	-3.2
Other services n.e.c.	5.6	3.0	8.5	4.4	3.0	-13.9	-6.5	0.0
<b>Individual consumption expenditure of non-profit institutions serving households (NPISHs)</b>	<b>-0.5</b>	<b>1.6</b>	<b>1.8</b>	<b>1.1</b>	<b>2.8</b>	<b>-4.9</b>	<b>-5.1</b>	<b>-1.7</b>
Health, education, and social protection	-0.5	0.5	5.9	1.3	2.2	-1.7	-3.9	-1.8
Other services n.e.c.	-0.5	2.8	-2.8	0.9	3.5	-8.7	-6.7	-1.5
<b>Private final consumption expenditure in the domestic market</b>	<b>4.9</b>	<b>3.8</b>	<b>5.2</b>	<b>3.8</b>	<b>3.7</b>	<b>-12.8</b>	<b>-1.8</b>	<b>8.7</b>
Plus : Expenditure of residents abroad	12.6	20.6	10.1	8.7	-3.2	-65.5	-22.1	112.4
Less : Expenditure of non-residents in the country	22.1	12.2	16.9	1.5	0.9	-80.0	-66.7	311.2
<b>Private final consumption expenditure</b>	<b>2.6</b>	<b>2.9</b>	<b>3.1</b>	<b>4.6</b>	<b>4.0</b>	<b>-0.8</b>	<b>0.6</b>	<b>6.2</b>

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

	2015	2016	2017	2018	2019	2020r	2021r	2022p
<b>Individual consumption expenditure of households</b>	<b>7,959,989</b>	<b>8,310,891</b>	<b>8,811,308</b>	<b>9,237,853</b>	<b>9,676,340</b>	<b>8,384,804</b>	<b>8,321,824</b>	<b>9,582,052</b>
<b>Food and non-alcoholic</b>	<b>1,961,940</b>	<b>2,038,672</b>	<b>2,061,402</b>	<b>2,091,895</b>	<b>2,210,373</b>	<b>2,291,399</b>	<b>2,356,650</b>	<b>2,554,110</b>
<i>Non-durable goods</i>	1,961,940	2,038,672	2,061,402	2,091,895	2,210,373	2,291,399	2,356,650	2,554,110
<b>Alcoholic beverages, tobacco and narcotic</b>	<b>270,515</b>	<b>281,891</b>	<b>287,214</b>	<b>289,185</b>	<b>291,797</b>	<b>278,123</b>	<b>275,265</b>	<b>286,087</b>
<i>Non-durable goods</i>	270,515	281,891	287,214	289,185	291,797	278,123	275,265	286,087
<b>Clothing and footwear</b>	<b>348,188</b>	<b>363,489</b>	<b>371,511</b>	<b>382,354</b>	<b>392,746</b>	<b>318,973</b>	<b>291,122</b>	<b>300,992</b>
<i>Semi-durable goods</i>	343,611	359,511	367,520	378,304	388,712	315,872	288,310	298,018
<i>Services</i>	4,577	3,978	3,991	4,050	4,034	3,101	2,812	2,974
<b>Housing, water, electricity, gas and other fuels</b>	<b>718,604</b>	<b>737,130</b>	<b>766,719</b>	<b>799,986</b>	<b>839,689</b>	<b>857,802</b>	<b>885,338</b>	<b>949,037</b>
<i>Non-durable goods</i>	268,818	265,714	266,507	276,479	297,907	301,506	312,577	361,558
<i>Services</i>	449,786	471,416	500,212	523,507	541,782	556,296	572,761	587,479
<b>Furnishings, households equipment and routine maintenance of the house</b>	<b>332,920</b>	<b>334,813</b>	<b>342,918</b>	<b>359,610</b>	<b>369,194</b>	<b>353,630</b>	<b>355,717</b>	<b>364,675</b>
<i>Durable goods</i>	73,998	73,860	74,124	75,945	77,421	73,905	72,281	72,556
<i>Semi-durable goods</i>	170,862	169,988	174,784	185,967	191,243	181,821	184,259	189,567
<i>Non-durable goods</i>	49,088	51,101	53,220	55,523	57,204	55,119	56,829	58,871
<i>Services</i>	38,972	39,864	40,790	42,175	43,326	42,785	42,348	43,681
<b>Health</b>	<b>358,763</b>	<b>378,323</b>	<b>393,782</b>	<b>414,681</b>	<b>435,494</b>	<b>463,344</b>	<b>505,318</b>	<b>551,734</b>
<i>Durable goods</i>	6,511	6,819	6,781	7,504	8,154	7,598	8,089	8,504
<i>Non-durable goods</i>	147,430	160,771	171,053	175,922	185,638	199,244	214,933	230,000
<i>Services</i>	204,822	210,733	215,948	231,255	241,702	256,502	282,296	313,230
<b>Transport</b>	<b>1,065,411</b>	<b>1,069,580</b>	<b>1,191,956</b>	<b>1,298,115</b>	<b>1,315,799</b>	<b>1,045,950</b>	<b>1,060,061</b>	<b>1,270,840</b>
<i>Durable goods</i>	302,467	307,901	369,883	420,017	422,130	340,213	327,826	370,873
<i>Semi-durable goods</i>	30,999	31,691	32,963	34,384	35,116	32,319	34,218	35,609
<i>Non-durable goods</i>	324,834	317,948	358,449	396,246	397,528	347,260	404,793	520,226
<i>Services</i>	407,111	412,040	430,661	447,468	461,025	326,158	293,224	344,132
<b>Communication</b>	<b>162,153</b>	<b>165,564</b>	<b>175,327</b>	<b>184,058</b>	<b>190,148</b>	<b>192,143</b>	<b>194,537</b>	<b>194,668</b>
<i>Durable goods</i>	7,467	7,543	7,658	7,757	7,951	7,855	8,465	8,878
<i>Services</i>	154,686	158,021	167,669	176,301	182,197	184,288	186,072	185,790
<b>Recreation and culture</b>	<b>393,524</b>	<b>454,055</b>	<b>486,072</b>	<b>513,344</b>	<b>528,054</b>	<b>419,179</b>	<b>407,428</b>	<b>431,158</b>
<i>Durable goods</i>	65,500	64,710	69,415	68,850	73,682	76,219	69,560	73,021
<i>Semi-durable goods</i>	44,085	41,346	43,088	44,780	42,611	42,124	41,502	43,576
<i>Non-durable goods</i>	40,530	41,715	39,866	39,774	39,970	39,547	38,295	38,494
<i>Services</i>	243,409	306,284	333,703	359,940	371,791	261,289	258,071	276,067
<b>Education</b>	<b>101,379</b>	<b>105,648</b>	<b>110,988</b>	<b>117,825</b>	<b>123,425</b>	<b>121,942</b>	<b>122,428</b>	<b>124,416</b>
<i>Services</i>	101,379	105,648	110,988	117,825	123,425	121,942	122,428	124,416
<b>Restaurants and hotels</b>	<b>1,278,216</b>	<b>1,355,958</b>	<b>1,538,632</b>	<b>1,634,145</b>	<b>1,770,920</b>	<b>898,596</b>	<b>715,056</b>	<b>1,329,635</b>
<i>Services</i>	1,278,216	1,355,958	1,538,632	1,634,145	1,770,920	898,596	715,056	1,329,635
<b>Miscellaneous goods and services</b>	<b>968,376</b>	<b>1,025,768</b>	<b>1,084,787</b>	<b>1,152,655</b>	<b>1,208,701</b>	<b>1,143,723</b>	<b>1,152,904</b>	<b>1,224,700</b>
<i>Durable goods</i>	154,960	173,172	192,099	209,547	227,339	188,424	185,059	201,241
<i>Semi-durable goods</i>	59,976	65,149	66,305	71,314	75,295	73,700	69,767	73,811
<i>Non-durable goods</i>	132,333	136,714	147,033	150,597	161,593	172,295	186,754	197,437
<i>Services</i>	621,107	650,733	679,350	721,197	744,474	709,304	711,324	752,211
<b>Individual consumption expenditure of non-profit institutions serving households (NPISHs)</b>	<b>144,725</b>	<b>145,949</b>	<b>149,527</b>	<b>152,836</b>	<b>158,180</b>	<b>149,535</b>	<b>144,285</b>	<b>150,672</b>
<i>Semi-durable goods</i>	1,115	1,091	1,020	977	971	924	889	945
<i>Non-durable goods</i>	25,808	25,915	26,637	27,115	27,879	26,987	26,537	27,907
<i>Services</i>	117,802	118,943	121,870	124,744	129,330	121,624	116,859	121,820
<b>Private final consumption expenditure in the domestic market</b>	<b>8,104,714</b>	<b>8,456,840</b>	<b>8,960,835</b>	<b>9,390,689</b>	<b>9,834,520</b>	<b>8,534,339</b>	<b>8,466,109</b>	<b>9,732,724</b>
Plus : Expenditure of residents abroad	239,935	290,023	321,458	353,053	344,332	117,886	93,286	211,061
Less : Expenditure of non-residents in the country	1,288,103	1,450,311	1,703,558	1,739,056	1,772,468	344,285	103,516	462,458
<b>Private final consumption expenditure</b>	<b>7,056,546</b>	<b>7,296,552</b>	<b>7,578,735</b>	<b>8,004,686</b>	<b>8,406,384</b>	<b>8,307,940</b>	<b>8,455,879</b>	<b>9,481,327</b>
<i>Durable goods</i>	610,904	634,005	719,961	789,620	816,678	694,214	671,280	735,073
<i>Semi-durable goods</i>	650,648	668,775	685,680	715,727	733,948	646,760	618,946	641,525
<i>Non-durable goods</i>	3,221,300	3,320,441	3,411,381	3,502,738	3,669,888	3,711,480	3,872,631	4,274,689
<i>Services</i>	2,573,694	2,673,331	2,761,713	2,996,601	3,185,870	3,255,486	3,293,022	3,830,040



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

	(Millions of Baht)							
	2015	2016	2017	2018	2019	2020r	2021r	2022p
<b>Individual consumption expenditure of households</b>	<b>5,574,451</b>	<b>5,790,310</b>	<b>6,096,216</b>	<b>6,333,230</b>	<b>6,566,936</b>	<b>5,718,300</b>	<b>5,618,877</b>	<b>6,118,947</b>
<b>Food and non-alcoholic</b>	<b>922,877</b>	<b>942,830</b>	<b>964,750</b>	<b>986,121</b>	<b>1,010,750</b>	<b>1,033,131</b>	<b>1,063,752</b>	<b>1,100,069</b>
<i>Non-durable goods</i>	922,877	942,830	964,750	986,121	1,010,750	1,033,131	1,063,752	1,100,069
<b>Alcoholic beverages, tobacco and narcotic</b>	<b>207,397</b>	<b>200,544</b>	<b>199,363</b>	<b>195,513</b>	<b>199,590</b>	<b>191,186</b>	<b>188,139</b>	<b>191,878</b>
<i>Non-durable goods</i>	207,397	200,544	199,363	195,513	199,590	191,186	188,139	191,878
<b>Clothing and footwear</b>	<b>288,308</b>	<b>295,285</b>	<b>301,711</b>	<b>305,382</b>	<b>310,754</b>	<b>252,370</b>	<b>229,416</b>	<b>235,822</b>
<i>Semi-durable goods</i>	284,164	291,682	298,086	301,783	307,189	249,642	226,966	233,268
<i>Services</i>	4,212	3,600	3,615	3,581	3,535	2,687	2,409	2,515
<b>Housing, water, electricity, gas and other fuels</b>	<b>623,768</b>	<b>650,268</b>	<b>677,521</b>	<b>699,039</b>	<b>727,794</b>	<b>751,869</b>	<b>771,334</b>	<b>781,954</b>
<i>Non-durable goods</i>	186,371	194,248	197,074	200,296	212,077	222,240	226,506	225,478
<i>Services</i>	432,296	450,718	476,559	495,608	511,367	524,111	539,580	552,400
<b>Furnishings, households equipment and routine maintenance of the house</b>	<b>301,948</b>	<b>303,081</b>	<b>312,445</b>	<b>328,434</b>	<b>338,755</b>	<b>329,851</b>	<b>332,908</b>	<b>336,095</b>
<i>Durable goods</i>	76,803	76,537	77,954	80,650	83,374	81,425	80,004	79,316
<i>Semi-durable goods</i>	168,110	166,707	173,023	185,537	191,969	186,457	189,892	193,103
<i>Non-durable goods</i>	36,231	37,988	39,600	41,081	42,188	40,696	41,868	42,311
<i>Services</i>	24,963	25,316	25,550	25,770	26,257	26,027	25,802	25,990
<b>Health</b>	<b>323,326</b>	<b>338,618</b>	<b>349,200</b>	<b>367,556</b>	<b>386,272</b>	<b>410,461</b>	<b>444,460</b>	<b>480,755</b>
<i>Durable goods</i>	7,181	7,307	7,059	7,803	8,472	7,848	8,123	8,353
<i>Non-durable goods</i>	139,315	152,403	160,359	165,006	174,437	186,824	198,785	209,183
<i>Services</i>	178,086	180,698	183,837	196,631	205,485	217,972	239,521	264,799
<b>Transport</b>	<b>735,203</b>	<b>767,245</b>	<b>830,591</b>	<b>879,600</b>	<b>890,052</b>	<b>735,502</b>	<b>690,131</b>	<b>750,965</b>
<i>Durable goods</i>	266,129	270,019	323,503	366,266	368,051	297,396	287,500	322,957
<i>Semi-durable goods</i>	24,237	24,794	25,364	26,057	26,570	24,705	25,583	26,085
<i>Non-durable goods</i>	158,565	170,730	174,487	176,869	179,313	175,647	166,373	173,224
<i>Services</i>	285,944	297,447	311,594	322,912	328,128	230,727	205,251	230,220
<b>Communication</b>	<b>231,361</b>	<b>236,490</b>	<b>250,854</b>	<b>263,006</b>	<b>271,903</b>	<b>274,760</b>	<b>278,923</b>	<b>279,589</b>
<i>Durable goods</i>	12,894	13,031	13,235	13,413	13,753	13,691	14,814	15,680
<i>Services</i>	218,732	223,704	237,773	249,671	258,210	261,093	264,305	264,262
<b>Recreation and culture</b>	<b>372,687</b>	<b>433,406</b>	<b>462,654</b>	<b>484,765</b>	<b>497,524</b>	<b>396,351</b>	<b>384,712</b>	<b>404,448</b>
<i>Durable goods</i>	75,986	74,423	79,783	79,792	85,981	88,960	80,567	81,584
<i>Semi-durable goods</i>	41,584	38,799	40,355	42,012	40,081	39,625	38,988	40,481
<i>Non-durable goods</i>	34,892	35,935	35,607	35,039	35,458	35,099	33,867	33,080
<i>Services</i>	212,974	271,774	293,694	313,136	321,622	227,291	224,636	241,456
<b>Education</b>	<b>94,088</b>	<b>95,519</b>	<b>98,168</b>	<b>103,197</b>	<b>107,705</b>	<b>106,335</b>	<b>108,004</b>	<b>109,515</b>
<i>Services</i>	94,088	95,519	98,168	103,197	107,705	106,335	108,004	109,515
<b>Restaurants and hotels</b>	<b>915,296</b>	<b>964,207</b>	<b>1,066,212</b>	<b>1,111,948</b>	<b>1,196,611</b>	<b>621,349</b>	<b>505,624</b>	<b>848,729</b>
<i>Services</i>	915,296	964,207	1,066,212	1,111,948	1,196,611	621,349	505,624	848,729
<b>Miscellaneous goods and services</b>	<b>669,442</b>	<b>692,665</b>	<b>731,140</b>	<b>772,656</b>	<b>803,372</b>	<b>755,593</b>	<b>752,452</b>	<b>744,601</b>
<i>Durable goods</i>	91,640	93,371	103,459	114,101	118,627	90,615	85,001	83,599
<i>Semi-durable goods</i>	46,271	49,090	50,590	56,636	62,627	57,930	52,421	51,392
<i>Non-durable goods</i>	107,924	110,807	118,792	121,384	130,163	138,377	149,707	156,636
<i>Services</i>	424,784	440,841	458,742	479,476	492,160	477,119	476,999	466,101
<b>Individual consumption expenditure of non-profit institutions serving households (NPISHs)</b>	<b>101,973</b>	<b>103,575</b>	<b>105,410</b>	<b>106,570</b>	<b>109,521</b>	<b>104,201</b>	<b>98,870</b>	<b>97,192</b>
<i>Semi-durable goods</i>	1,095	1,076	1,007	962	955	908	877	931
<i>Non-durable goods</i>	19,829	19,852	20,283	20,335	20,542	19,689	19,180	19,604
<i>Services</i>	81,082	82,638	84,093	85,213	87,920	83,515	78,763	76,680
<b>Private final consumption expenditure in the domestic market</b>	<b>5,676,266</b>	<b>5,893,735</b>	<b>6,201,534</b>	<b>6,439,758</b>	<b>6,676,426</b>	<b>5,822,302</b>	<b>5,717,624</b>	<b>6,216,157</b>
Plus : Expenditure of residents abroad	181,198	218,529	240,634	261,522	253,229	87,252	67,994	144,451
Less : Expenditure of non-residents in the country	987,273	1,107,338	1,294,920	1,314,276	1,326,724	265,203	88,337	363,263
<b>Private final consumption expenditure</b>	<b>4,909,901</b>	<b>5,051,349</b>	<b>5,207,330</b>	<b>5,445,519</b>	<b>5,661,479</b>	<b>5,617,253</b>	<b>5,651,161</b>	<b>5,999,291</b>
<i>Durable goods</i>	543,060	548,337	622,381	684,658	701,224	585,639	559,856	591,848
<i>Semi-durable goods</i>	565,958	573,837	589,832	613,702	630,318	555,640	528,224	538,522
<i>Non-durable goods</i>	1,778,176	1,828,280	1,870,783	1,903,113	1,959,190	1,992,610	2,034,109	2,097,857
<i>Services</i>	2,063,082	2,141,261	2,176,395	2,324,483	2,460,820	2,532,888	2,560,374	2,831,820

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)**

	2015	2016	2017	2018	2019	2020r	2021r	2022p
<b>Individual consumption expenditure of households</b>	<b>167.5</b>	<b>174.0</b>	<b>183.2</b>	<b>190.3</b>	<b>197.4</b>	<b>171.9</b>	<b>168.9</b>	<b>183.9</b>
<b>Food and non-alcoholic</b>	<b>128.1</b>	<b>130.9</b>	<b>133.9</b>	<b>136.9</b>	<b>140.3</b>	<b>143.4</b>	<b>147.7</b>	<b>152.7</b>
<i>Non-durable goods</i>	128.1	130.9	133.9	136.9	140.3	143.4	147.7	152.7
<b>Alcoholic beverages, tobacco and narcotic</b>	<b>120.6</b>	<b>116.6</b>	<b>115.9</b>	<b>113.7</b>	<b>116.1</b>	<b>111.2</b>	<b>109.4</b>	<b>111.6</b>
<i>Non-durable goods</i>	120.6	116.6	115.9	113.7	116.1	111.2	109.4	111.6
<b>Clothing and footwear</b>	<b>121.3</b>	<b>124.3</b>	<b>127.0</b>	<b>128.5</b>	<b>130.8</b>	<b>106.2</b>	<b>96.5</b>	<b>99.2</b>
<i>Semi-durable goods</i>	120.6	123.7	126.5	128.0	130.3	105.9	96.3	99.0
<i>Services</i>	218.3	186.6	187.4	185.6	183.2	139.3	124.9	130.4
<b>Housing, water, electricity, gas and other fuels</b>	<b>164.1</b>	<b>171.1</b>	<b>178.3</b>	<b>184.0</b>	<b>191.5</b>	<b>197.9</b>	<b>203.0</b>	<b>205.8</b>
<i>Non-durable goods</i>	181.1	188.7	191.5	194.6	206.0	215.9	220.1	219.1
<i>Services</i>	156.0	162.7	172.0	178.9	184.6	189.2	194.7	199.4
<b>Furnishings, households equipment and routine maintenance of the house</b>	<b>194.5</b>	<b>195.2</b>	<b>201.2</b>	<b>211.5</b>	<b>218.2</b>	<b>212.4</b>	<b>214.4</b>	<b>216.5</b>
<i>Durable goods</i>	248.2	247.3	251.9	260.6	269.4	263.1	258.5	256.3
<i>Semi-durable goods</i>	229.3	227.3	236.0	253.0	261.8	254.3	259.0	263.3
<i>Non-durable goods</i>	150.8	158.1	164.8	171.0	175.6	169.4	174.2	176.1
<i>Services</i>	92.6	93.9	94.8	95.6	97.4	96.5	95.7	96.4
<b>Health</b>	<b>205.2</b>	<b>214.9</b>	<b>221.6</b>	<b>233.3</b>	<b>245.2</b>	<b>260.5</b>	<b>282.1</b>	<b>305.1</b>
<i>Durable goods</i>	545.7	555.2	536.4	592.9	643.8	596.3	617.2	634.7
<i>Non-durable goods</i>	244.0	266.9	280.8	289.0	305.5	327.2	348.1	366.3
<i>Services</i>	179.7	182.3	185.5	198.4	207.3	219.9	241.6	267.1
<b>Transport</b>	<b>161.6</b>	<b>168.6</b>	<b>182.5</b>	<b>193.3</b>	<b>195.6</b>	<b>161.6</b>	<b>151.7</b>	<b>165.0</b>
<i>Durable goods</i>	203.6	206.5	247.4	280.2	281.5	227.5	219.9	247.0
<i>Semi-durable goods</i>	159.0	162.7	166.4	171.0	174.3	162.1	167.8	171.1
<i>Non-durable goods</i>	131.5	141.6	144.7	146.6	148.7	145.6	137.9	143.6
<i>Services</i>	151.9	158.1	165.6	171.6	174.4	122.6	109.1	122.3
<b>Communication</b>	<b>255.0</b>	<b>260.7</b>	<b>276.5</b>	<b>289.9</b>	<b>299.7</b>	<b>302.9</b>	<b>307.5</b>	<b>308.2</b>
<i>Durable goods</i>	236.8	239.4	243.1	246.4	252.6	251.5	272.1	288.0
<i>Services</i>	256.5	262.3	278.8	292.8	302.8	306.2	310.0	309.9
<b>Recreation and culture</b>	<b>211.4</b>	<b>245.9</b>	<b>262.5</b>	<b>275.0</b>	<b>282.3</b>	<b>224.9</b>	<b>218.3</b>	<b>229.5</b>
<i>Durable goods</i>	129.2	126.5	135.6	135.6	146.2	151.2	137.0	138.7
<i>Semi-durable goods</i>	235.4	219.6	228.4	237.8	226.9	224.3	220.7	229.1
<i>Non-durable goods</i>	127.9	131.7	130.5	128.5	130.0	128.7	124.2	121.3
<i>Services</i>	291.2	371.6	401.6	428.2	439.8	310.8	307.2	330.2
<b>Education</b>	<b>165.4</b>	<b>167.9</b>	<b>172.5</b>	<b>181.4</b>	<b>189.3</b>	<b>186.9</b>	<b>189.8</b>	<b>192.5</b>
<i>Services</i>	165.4	167.9	172.5	181.4	189.3	186.9	189.8	192.5
<b>Restaurants and hotels</b>	<b>220.9</b>	<b>232.7</b>	<b>257.3</b>	<b>268.3</b>	<b>288.8</b>	<b>149.9</b>	<b>122.0</b>	<b>204.8</b>
<i>Services</i>	220.9	232.7	257.3	268.3	288.8	149.9	122.0	204.8
<b>Miscellaneous goods and services</b>	<b>214.1</b>	<b>221.5</b>	<b>233.8</b>	<b>247.1</b>	<b>256.9</b>	<b>241.6</b>	<b>240.6</b>	<b>238.1</b>
<i>Durable goods</i>	208.2	212.1	235.0	259.2	269.5	205.8	193.1	189.9
<i>Semi-durable goods</i>	736.7	781.6	805.5	901.7	997.1	922.3	834.6	818.2
<i>Non-durable goods</i>	218.9	224.8	241.0	246.2	264.1	280.7	303.7	317.8
<i>Services</i>	199.3	206.9	215.3	225.0	231.0	223.9	223.9	218.7
<b>Individual consumption expenditure of non-profit institutions serving households (NPISHs)</b>	<b>177.9</b>	<b>180.7</b>	<b>183.9</b>	<b>185.9</b>	<b>191.1</b>	<b>181.8</b>	<b>172.5</b>	<b>169.6</b>
<i>Semi-durable goods</i>	482.6	474.3	443.9	424.0	420.9	400.2	386.6	410.4
<i>Non-durable goods</i>	401.9	402.3	411.1	412.1	416.3	399.0	388.7	397.3
<i>Services</i>	155.4	158.3	161.1	163.3	168.5	160.0	150.9	146.9
<b>Private final consumption expenditure in the domestic market</b>	<b>167.7</b>	<b>174.1</b>	<b>183.2</b>	<b>190.3</b>	<b>197.3</b>	<b>172.0</b>	<b>168.9</b>	<b>183.7</b>
Plus : Expenditure of residents abroad	159.2	192.1	211.5	229.8	222.5	76.7	59.8	126.9
Less : Expenditure of non-residents in the country	350.9	393.6	460.2	467.1	471.5	94.3	31.4	129.1
<b>Private final consumption expenditure</b>	<b>152.0</b>	<b>156.4</b>	<b>161.2</b>	<b>168.6</b>	<b>175.3</b>	<b>173.9</b>	<b>175.0</b>	<b>185.8</b>
<i>Durable goods</i>	200.2	202.1	229.4	252.4	258.5	215.9	206.4	218.2
<i>Semi-durable goods</i>	162.4	164.7	169.3	176.1	180.9	159.5	151.6	154.6
<i>Non-durable goods</i>	139.1	143.0	146.4	148.9	153.3	155.9	159.1	164.1
<i>Services</i>	154.3	160.2	162.8	173.9	184.1	189.5	191.5	211.8

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

	Percent							
	2015	2016	2017	2018	2019	2020r	2021r	2022p
<b>Individual consumption expenditure of households</b>	<b>5.1</b>	<b>3.9</b>	<b>5.3</b>	<b>3.9</b>	<b>3.7</b>	<b>-12.9</b>	<b>-1.7</b>	<b>8.9</b>
<b>Food and non-alcoholic</b>	<b>2.2</b>	<b>2.2</b>	<b>2.3</b>	<b>2.2</b>	<b>2.5</b>	<b>2.2</b>	<b>3.0</b>	<b>3.4</b>
<i>Non-durable goods</i>	2.2	2.2	2.3	2.2	2.5	2.2	3.0	3.4
<b>Alcoholic beverages, tobacco and narcotic</b>	<b>1.6</b>	<b>-3.3</b>	<b>-0.6</b>	<b>-1.9</b>	<b>2.1</b>	<b>-4.2</b>	<b>-1.6</b>	<b>2.0</b>
<i>Non-durable goods</i>	1.6	-3.3	-0.6	-1.9	2.1	-4.2	-1.6	2.0
<b>Clothing and footwear</b>	<b>1.3</b>	<b>2.4</b>	<b>2.2</b>	<b>1.2</b>	<b>1.8</b>	<b>-18.8</b>	<b>-9.1</b>	<b>2.8</b>
<i>Semi-durable goods</i>	1.2	2.6	2.2	1.2	1.8	-18.7	-9.1	2.8
<i>Services</i>	6.9	-14.5	0.4	-0.9	-1.3	-24.0	-10.3	4.4
<b>Housing, water, electricity, gas and other fuels</b>	<b>4.8</b>	<b>4.2</b>	<b>4.2</b>	<b>3.2</b>	<b>4.1</b>	<b>3.3</b>	<b>2.6</b>	<b>1.4</b>
<i>Non-durable goods</i>	5.9	4.2	1.5	1.6	5.9	4.8	1.9	-0.5
<i>Services</i>	4.1	4.3	5.7	4.0	3.2	2.5	3.0	2.4
<b>Furnishings, households equipment and routine maintenance of the house</b>	<b>3.2</b>	<b>0.4</b>	<b>3.1</b>	<b>5.1</b>	<b>3.1</b>	<b>-2.6</b>	<b>0.9</b>	<b>1.0</b>
<i>Durable goods</i>	2.0	-0.3	1.9	3.5	3.4	-2.3	-1.7	-0.9
<i>Semi-durable goods</i>	3.5	-0.8	3.8	7.2	3.5	-2.9	1.8	1.7
<i>Non-durable goods</i>	3.7	4.8	4.2	3.7	2.7	-3.5	2.9	1.1
<i>Services</i>	3.6	1.4	0.9	0.9	1.9	-0.9	-0.9	0.7
<b>Health</b>	<b>3.3</b>	<b>4.7</b>	<b>3.1</b>	<b>5.3</b>	<b>5.1</b>	<b>6.3</b>	<b>8.3</b>	<b>8.2</b>
<i>Durable goods</i>	-1.7	1.8	-3.4	10.5	8.6	-7.4	3.5	2.8
<i>Non-durable goods</i>	5.8	9.4	5.2	2.9	5.7	7.1	6.4	5.2
<i>Services</i>	1.6	1.5	1.7	7.0	4.5	6.1	9.9	10.6
<b>Transport</b>	<b>3.0</b>	<b>4.4</b>	<b>8.3</b>	<b>5.9</b>	<b>1.2</b>	<b>-17.4</b>	<b>-6.2</b>	<b>8.8</b>
<i>Durable goods</i>	-9.3	1.5	19.8	13.2	0.5	-19.2	-3.3	12.3
<i>Semi-durable goods</i>	11.5	2.3	2.3	2.7	2.0	-7.0	3.6	2.0
<i>Non-durable goods</i>	10.1	7.7	2.2	1.4	1.4	-2.0	-5.3	4.1
<i>Services</i>	6.1	4.0	4.8	3.6	1.6	-29.7	-11.0	12.2
<b>Communication</b>	<b>6.2</b>	<b>2.2</b>	<b>6.1</b>	<b>4.8</b>	<b>3.4</b>	<b>1.1</b>	<b>1.5</b>	<b>0.2</b>
<i>Durable goods</i>	0.6	1.1	1.6	1.3	2.5	-0.5	8.2	5.8
<i>Services</i>	6.5	2.3	6.3	5.0	3.4	1.1	1.2	0.0
<b>Recreation and culture</b>	<b>2.1</b>	<b>16.3</b>	<b>6.7</b>	<b>4.8</b>	<b>2.6</b>	<b>-20.3</b>	<b>-2.9</b>	<b>5.1</b>
<i>Durable goods</i>	-17.2	-2.1	7.2	0.0	7.8	3.5	-9.4	1.3
<i>Semi-durable goods</i>	0.2	-6.7	4.0	4.1	-4.6	-1.1	-1.6	3.8
<i>Non-durable goods</i>	-6.4	3.0	-0.9	-1.6	1.2	-1.0	-3.5	-2.3
<i>Services</i>	10.9	27.6	8.1	6.6	2.7	-29.3	-1.2	7.5
<b>Education</b>	<b>4.3</b>	<b>1.5</b>	<b>2.8</b>	<b>5.1</b>	<b>4.4</b>	<b>-1.3</b>	<b>1.6</b>	<b>1.4</b>
<i>Services</i>	4.3	1.5	2.8	5.1	4.4	-1.3	1.6	1.4
<b>Restaurants and hotels</b>	<b>12.4</b>	<b>5.3</b>	<b>10.6</b>	<b>4.3</b>	<b>7.6</b>	<b>-48.1</b>	<b>-18.6</b>	<b>67.9</b>
<i>Services</i>	12.4	5.3	10.6	4.3	7.6	-48.1	-18.6	67.9
<b>Miscellaneous goods and services</b>	<b>9.7</b>	<b>3.5</b>	<b>5.6</b>	<b>5.7</b>	<b>4.0</b>	<b>-5.9</b>	<b>-0.4</b>	<b>-1.0</b>
<i>Durable goods</i>	22.0	1.9	10.8	10.3	4.0	-23.6	-6.2	-1.6
<i>Semi-durable goods</i>	26.4	6.1	3.1	12.0	10.6	-7.5	-9.5	-2.0
<i>Non-durable goods</i>	9.7	2.7	7.2	2.2	7.2	6.3	8.2	4.6
<i>Services</i>	5.5	3.8	4.1	4.5	2.6	-3.1	0.0	-2.3
<b>Individual consumption expenditure of non-profit institutions serving households (NPISHs)</b>	<b>-0.5</b>	<b>1.6</b>	<b>1.8</b>	<b>1.1</b>	<b>2.8</b>	<b>-4.9</b>	<b>-5.1</b>	<b>-1.7</b>
<i>Semi-durable goods</i>	1.5	-1.7	-6.4	-4.5	-0.7	-4.9	-3.4	6.2
<i>Non-durable goods</i>	3.9	0.1	2.2	0.3	1.0	-4.2	-2.6	2.2
<i>Services</i>	-1.5	1.9	1.8	1.3	3.2	-5.0	-5.7	-2.6
<b>Private final consumption expenditure in the domestic market</b>	<b>4.9</b>	<b>3.8</b>	<b>5.2</b>	<b>3.8</b>	<b>3.7</b>	<b>-12.8</b>	<b>-1.8</b>	<b>8.7</b>
Plus : Expenditure of residents abroad	12.6	20.6	10.1	8.7	-3.2	-65.5	-22.1	112.4
Less : Expenditure of non-residents in the country	22.1	12.2	16.9	1.5	0.9	-80.0	-66.7	311.2
<b>Private final consumption expenditure</b>	<b>2.6</b>	<b>2.9</b>	<b>3.1</b>	<b>4.6</b>	<b>4.0</b>	<b>-0.8</b>	<b>0.6</b>	<b>6.2</b>
<i>Durable goods</i>	-2.1	1.0	13.5	10.0	2.4	-16.5	-4.4	5.7
<i>Semi-durable goods</i>	4.2	1.4	2.8	4.0	2.7	-11.8	-4.9	1.9
<i>Non-durable goods</i>	3.7	2.8	2.3	1.7	2.9	1.7	2.1	3.1
<i>Services</i>	2.0	3.8	1.6	6.8	5.9	2.9	1.1	10.6

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

	(Millions of Baht)							
	2015	2016	2017	2018	2019	2020r	2021r	2022p
<b>By type of expenditure</b>								
Compensation of employees	1,297,373	1,350,895	1,402,532	1,462,566	1,524,086	1,582,089	1,627,975	1,687,168
Consumption of fixed capital	261,017	273,413	286,657	300,641	310,087	317,952	325,420	334,513
Purchases from enterprises and abroad	680,722	716,827	716,662	794,731	805,540	808,402	833,178	860,716
Less: Purchases by households and enterprises	129,347	140,669	151,516	177,879	187,973	210,792	232,369	247,041
Social transfers in kind - purchased market production	243,277	260,220	270,068	268,161	279,132	289,258	397,193	444,476
<b>General government final consumption expenditure</b>	<b>2,353,042</b>	<b>2,460,686</b>	<b>2,524,403</b>	<b>2,648,220</b>	<b>2,730,872</b>	<b>2,786,909</b>	<b>2,951,397</b>	<b>3,079,832</b>
<b>By classification of the functions of government (COFOG)</b>								
General public services	349,286	359,128	359,444	369,985	387,918	380,899	397,032	402,749
Defence	239,571	259,016	261,422	293,445	295,914	302,201	290,002	281,941
Public order and safety	211,882	221,432	223,976	230,987	241,102	248,199	254,029	253,014
Economic affairs	301,524	300,753	313,662	330,934	340,239	334,021	329,773	357,993
Environmental protection	31,598	34,291	35,203	34,434	36,092	39,964	41,259	40,249
Housing and community amenities	70,063	74,870	78,184	83,474	85,027	80,035	85,360	84,274
Health	383,705	409,936	438,968	466,348	491,951	542,478	680,207	761,736
Recreation, culture and religion	37,673	39,906	41,032	42,952	41,525	39,437	41,935	42,383
Education	695,012	727,979	743,047	763,298	780,732	791,579	806,321	830,722
Social protection	32,728	33,375	29,465	32,363	30,372	28,096	25,479	24,771
<b>General government final consumption expenditure</b>	<b>2,353,042</b>	<b>2,460,686</b>	<b>2,524,403</b>	<b>2,648,220</b>	<b>2,730,872</b>	<b>2,786,909</b>	<b>2,951,397</b>	<b>3,079,832</b>
<b>By type of services</b>								
Collective consumption expenditure	1,204,158	1,249,398	1,269,543	1,344,055	1,385,984	1,385,905	1,398,281	1,420,157
Individual consumption expenditure	1,148,884	1,211,288	1,254,860	1,304,165	1,344,888	1,401,004	1,553,116	1,659,675
<b>General government final consumption expenditure</b>	<b>2,353,042</b>	<b>2,460,686</b>	<b>2,524,403</b>	<b>2,648,220</b>	<b>2,730,872</b>	<b>2,786,909</b>	<b>2,951,397</b>	<b>3,079,832</b>

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

	(Million Baht)							
	2015	2016	2017	2018	2019	2020r	2021r	2022p
<b>By type of expenditure</b>								
Compensation of employees	715,799	718,298	721,366	730,680	743,430	757,074	760,270	760,677
Consumption of fixed capital	170,249	172,031	177,500	183,700	186,569	189,032	190,637	192,866
Purchases from enterprises and abroad	556,270	588,705	582,674	637,395	647,509	663,851	671,335	655,584
Less: Purchases by households and enterprises	107,878	118,027	125,813	145,602	154,192	176,507	190,526	191,980
Social transfers in kind - purchased market production	195,931	208,932	215,823	212,526	219,667	229,092	308,747	324,756
<b>General government final consumption expenditure</b>	<b>1,493,837</b>	<b>1,526,168</b>	<b>1,530,150</b>	<b>1,571,045</b>	<b>1,595,583</b>	<b>1,617,299</b>	<b>1,676,679</b>	<b>1,678,922</b>
<b>By classification of the functions of government (COFOG)</b>								
General public services	234,841	235,823	230,097	231,536	239,269	233,064	237,237	231,400
Defence	151,070	159,047	156,081	170,854	169,683	172,506	161,772	150,570
Public order and safety	138,798	140,702	138,144	138,695	142,113	144,699	144,571	138,438
Economic affairs	198,511	192,987	197,067	203,825	206,458	201,436	195,314	204,852
Environmental protection	20,682	21,918	22,018	21,097	21,849	24,157	24,433	22,919
Housing and community amenities	46,553	48,530	49,734	52,138	52,456	49,108	51,395	49,180
Health	266,116	278,809	292,727	304,930	317,186	348,971	428,406	455,369
Recreation, culture and religion	27,996	29,310	29,658	30,531	29,348	27,999	29,155	28,251
Education	389,331	398,935	398,523	401,102	403,508	404,903	404,176	401,650
Social protection	23,971	24,134	20,834	22,394	20,774	19,215	17,030	15,850
<b>General government final consumption expenditure</b>	<b>1,493,837</b>	<b>1,526,168</b>	<b>1,530,150</b>	<b>1,571,045</b>	<b>1,595,583</b>	<b>1,617,299</b>	<b>1,676,679</b>	<b>1,678,922</b>
<b>By type of services</b>								
Collective consumption expenditure	850,271	864,119	861,053	895,288	914,222	913,079	907,343	893,980
Individual consumption expenditure	644,962	662,542	668,478	677,529	684,253	704,045	759,840	771,847
<b>General government final consumption expenditure</b>	<b>1,493,837</b>	<b>1,526,168</b>	<b>1,530,150</b>	<b>1,571,045</b>	<b>1,595,583</b>	<b>1,617,299</b>	<b>1,676,679</b>	<b>1,678,922</b>

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)**

	2015	2016	2017	2018	2019	2020r	2021r	2022p
<b>By type of expenditure</b>								
Compensation of employees	158.2	158.8	159.5	161.5	164.4	167.4	168.1	168.2
Consumption of fixed capital	148.3	149.9	154.7	160.1	162.6	164.7	166.1	168.0
Purchases from enterprises and abroad	306.2	324.0	320.7	350.8	356.4	365.4	369.5	360.8
Less: Purchases by households and enterprises	506.9	554.6	591.1	684.1	724.5	829.3	895.2	902.0
Social transfers in kind - purchased market production	603.2	643.2	664.4	654.2	676.2	705.2	950.5	999.7
<b>General government final consumption expenditure</b>	<b>196.6</b>	<b>200.8</b>	<b>201.3</b>	<b>206.7</b>	<b>209.9</b>	<b>212.8</b>	<b>220.6</b>	<b>220.9</b>
<b>By classification of the functions of government (COFOG)</b>								
General public services	209.1	210.0	204.9	206.1	213.0	207.5	211.2	206.0
Defence	161.4	170.0	166.8	182.6	181.3	184.3	172.9	160.9
Public order and safety	189.6	192.2	188.7	189.5	194.1	197.7	197.5	189.1
Economic affairs	165.6	161.0	164.4	170.0	172.2	168.0	162.9	170.9
Environmental protection	381.2	403.9	405.8	388.8	402.7	445.2	450.3	422.4
Housing and community amenities	230.9	240.7	246.7	258.6	260.2	243.6	254.9	243.9
Health	277.4	290.6	305.1	317.8	330.6	363.7	446.5	474.6
Recreation, culture and religion	171.2	179.2	181.3	186.7	179.4	171.2	178.2	172.7
Education	179.3	183.7	183.6	184.7	185.9	186.5	186.2	185.0
Social protection	400.1	402.8	347.8	373.8	346.8	320.7	284.3	264.6
<b>General government final consumption expenditure</b>	<b>196.6</b>	<b>200.8</b>	<b>201.3</b>	<b>206.7</b>	<b>209.9</b>	<b>212.8</b>	<b>220.6</b>	<b>220.9</b>
<b>By type of services</b>								
Collective consumption expenditure	194.6	197.8	197.1	205.0	209.3	209.0	207.7	204.7
Individual consumption expenditure	199.6	205.0	206.9	209.7	211.7	217.9	235.1	238.8
<b>General government final consumption expenditure</b>	<b>196.6</b>	<b>200.8</b>	<b>201.3</b>	<b>206.7</b>	<b>209.9</b>	<b>212.8</b>	<b>220.6</b>	<b>220.9</b>

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

	2015	2016	2017	2018	2019	2020r	2021r	2022p
<b>By type of expenditure</b>								
Compensation of employees	1.0	0.3	0.4	1.3	1.7	1.8	0.4	0.1
Consumption of fixed capital	1.3	1.0	3.2	3.5	1.6	1.3	0.8	1.2
Purchases from enterprises and abroad	11.5	5.8	-1.0	9.4	1.6	2.5	1.1	-2.3
Less: Purchases by households and enterprises	25.6	9.4	6.6	15.7	5.9	14.5	7.9	0.8
Social transfers in kind - purchased market production	-1.4	6.6	3.3	-1.5	3.4	4.3	34.8	5.2
<b>General government final consumption expenditure</b>	<b>2.5</b>	<b>2.2</b>	<b>0.3</b>	<b>2.7</b>	<b>1.6</b>	<b>1.4</b>	<b>3.7</b>	<b>0.1</b>
<b>By classification of the functions of government (COFOG)</b>								
General public services	6.4	0.4	-2.4	0.6	3.3	-2.6	1.8	-2.5
Defence	7.2	5.3	-1.9	9.5	-0.7	1.7	-6.2	-6.9
Public order and safety	2.8	1.4	-1.8	0.4	2.5	1.8	-0.1	-4.2
Economic affairs	0.5	-2.8	2.1	3.4	1.3	-2.4	-3.0	4.9
Environmental protection	7.7	6.0	0.5	-4.2	3.6	10.6	1.1	-6.2
Housing and community amenities	1.3	4.2	2.5	4.8	0.6	-6.4	4.7	-4.3
Health	1.7	4.8	5.0	4.2	4.0	10.0	22.8	6.3
Recreation, culture and religion	0.2	4.7	1.2	2.9	-3.9	-4.6	4.1	-3.1
Education	0.5	2.5	-0.1	0.6	0.6	0.3	-0.2	-0.6
Social protection	1.6	0.7	-13.7	7.5	-7.2	-7.5	-11.4	-6.9
<b>General government final consumption expenditure</b>	<b>2.5</b>	<b>2.2</b>	<b>0.3</b>	<b>2.7</b>	<b>1.6</b>	<b>1.4</b>	<b>3.7</b>	<b>0.1</b>
<b>By type of services</b>								
Collective consumption expenditure	4.0	1.6	-0.4	4.0	2.1	-0.1	-0.6	-1.5
Individual consumption expenditure	0.9	2.7	0.9	1.4	1.0	2.9	7.9	1.6
<b>General government final consumption expenditure</b>	<b>2.5</b>	<b>2.2</b>	<b>0.3</b>	<b>2.7</b>	<b>1.6</b>	<b>1.4</b>	<b>3.7</b>	<b>0.1</b>

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

(Millions of Baht)

	2015	2016	2017	2018	2019	2020r	2021r	2022p
<b>Construction</b>	<b>1,159,732</b>	<b>1,223,405</b>	<b>1,212,414</b>	<b>1,268,279</b>	<b>1,297,493</b>	<b>1,311,650</b>	<b>1,362,067</b>	<b>1,368,566</b>
<i>Private</i>	529,357	524,010	526,729	561,595	571,075	555,311	559,878	566,998
<i>Public</i>	630,375	699,395	685,685	706,684	726,418	756,339	802,189	801,568
<b>Equipment</b>	<b>2,211,337</b>	<b>2,236,496</b>	<b>2,366,763</b>	<b>2,462,590</b>	<b>2,514,892</b>	<b>2,323,718</b>	<b>2,441,161</b>	<b>2,691,137</b>
<i>Private</i>	1,976,806	2,005,331	2,126,771	2,211,535	2,278,324	2,072,424	2,183,217	2,438,958
<i>Public</i>	234,531	231,165	239,992	251,055	236,568	251,294	257,944	252,179
<b>Gross fixed capital formation</b>	<b>3,371,069</b>	<b>3,459,901</b>	<b>3,579,177</b>	<b>3,730,869</b>	<b>3,812,385</b>	<b>3,635,368</b>	<b>3,803,228</b>	<b>4,059,703</b>
<i>Private</i>	2,506,163	2,529,341	2,653,500	2,773,130	2,849,399	2,627,735	2,743,095	3,005,956
<i>Public</i>	864,906	930,560	925,677	957,739	962,986	1,007,633	1,060,133	1,053,747
<b>Change in inventories</b>	<b>-298,624</b>	<b>-380,535</b>	<b>-26,962</b>	<b>398,424</b>	<b>209,730</b>	<b>85,035</b>	<b>830,848</b>	<b>776,447</b>
<b>Gross capital formation</b>	<b>3,072,445</b>	<b>3,079,366</b>	<b>3,552,215</b>	<b>4,129,293</b>	<b>4,022,115</b>	<b>3,720,403</b>	<b>4,634,076</b>	<b>4,836,150</b>

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

(Million Baht)

	2015	2016	2017	2018	2019	2020r	2021r	2022p
<b>Construction</b>	<b>784,133</b>	<b>846,807</b>	<b>829,249</b>	<b>855,607</b>	<b>868,819</b>	<b>884,812</b>	<b>904,878</b>	<b>884,806</b>
<i>Private</i>	361,713	365,590	362,390	380,325	382,539	374,711	372,362	366,820
<i>Public</i>	420,053	478,040	463,837	472,272	483,174	506,834	529,100	514,667
<b>Equipment</b>	<b>1,556,729</b>	<b>1,559,793</b>	<b>1,621,990</b>	<b>1,692,106</b>	<b>1,729,422</b>	<b>1,587,318</b>	<b>1,642,837</b>	<b>1,721,500</b>
<i>Private</i>	1,397,005	1,402,885	1,459,315	1,520,199	1,568,029	1,415,956	1,470,230	1,562,018
<i>Public</i>	160,781	158,061	163,885	173,159	162,620	172,461	173,723	160,649
<b>Gross fixed capital formation</b>	<b>2,350,865</b>	<b>2,418,543</b>	<b>2,463,149</b>	<b>2,560,080</b>	<b>2,610,781</b>	<b>2,486,963</b>	<b>2,562,913</b>	<b>2,621,321</b>
<i>Private</i>	1,758,459	1,768,279	1,821,464	1,900,267	1,950,187	1,792,248	1,844,054	1,930,081
<i>Public</i>	585,133	641,321	632,869	650,678	651,385	685,129	708,972	681,356
<b>Change in inventories</b>	<b>-111,915</b>	<b>-340,739</b>	<b>-68,590</b>	<b>258,420</b>	<b>117,390</b>	<b>127,759</b>	<b>289,148</b>	<b>238,433</b>
<b>Gross capital formation</b>	<b>2,273,757</b>	<b>2,188,290</b>	<b>2,428,351</b>	<b>2,823,330</b>	<b>2,728,418</b>	<b>2,600,031</b>	<b>2,931,397</b>	<b>2,712,540</b>

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)

	2015	2016	2017	2018	2019	2020r	2021r	2022p
<b>Construction</b>	<b>165.3</b>	<b>178.6</b>	<b>174.9</b>	<b>180.4</b>	<b>183.2</b>	<b>186.6</b>	<b>190.8</b>	<b>186.6</b>
<i>Private</i>	182.0	183.9	182.3	191.3	192.5	188.5	187.3	184.5
<i>Public</i>	152.5	173.5	168.4	171.4	175.4	184.0	192.1	186.8
<b>Equipment</b>	<b>197.1</b>	<b>197.5</b>	<b>205.3</b>	<b>214.2</b>	<b>218.9</b>	<b>200.9</b>	<b>208.0</b>	<b>217.9</b>
<i>Private</i>	206.9	207.8	216.1	225.1	232.2	209.7	217.7	231.3
<i>Public</i>	140.1	137.8	142.8	150.9	141.7	150.3	151.4	140.0
<b>Gross fixed capital formation</b>	<b>186.0</b>	<b>191.3</b>	<b>194.8</b>	<b>202.5</b>	<b>206.5</b>	<b>196.7</b>	<b>202.7</b>	<b>207.3</b>
<i>Private</i>	201.2	202.3	208.4	217.4	223.1	205.1	211.0	220.8
<i>Public</i>	149.9	164.3	162.2	166.7	166.9	175.6	181.7	174.6
<b>Change in inventories</b>								
<b>Gross capital formation</b>	<b>173.3</b>	<b>166.8</b>	<b>185.1</b>	<b>215.2</b>	<b>207.9</b>	<b>198.1</b>	<b>223.4</b>	<b>206.7</b>

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

	2015	2016	2017	2018	2019	2020r	2021r	2022p
	Percent							
<b>Construction</b>	<b>15.7</b>	<b>8.0</b>	<b>-2.1</b>	<b>3.2</b>	<b>1.5</b>	<b>1.8</b>	<b>2.3</b>	<b>-2.2</b>
<i>Private</i>	0.3	1.1	-0.9	4.9	0.6	-2.0	-0.6	-1.5
<i>Public</i>	32.6	13.8	-3.0	1.8	2.3	4.9	4.4	-2.7
<b>Equipment</b>	<b>-0.9</b>	<b>0.2</b>	<b>4.0</b>	<b>4.3</b>	<b>2.2</b>	<b>-8.2</b>	<b>3.5</b>	<b>4.8</b>
<i>Private</i>	-2.7	0.4	4.0	4.2	3.1	-9.7	3.8	6.2
<i>Public</i>	17.7	-1.7	3.7	5.7	-6.1	6.1	0.7	-7.5
<b>Gross fixed capital formation</b>	<b>4.4</b>	<b>2.9</b>	<b>1.8</b>	<b>3.9</b>	<b>2.0</b>	<b>-4.7</b>	<b>3.1</b>	<b>2.3</b>
<i>Private</i>	-2.1	0.6	3.0	4.3	2.6	-8.1	2.9	4.7
<i>Public</i>	28.4	9.6	-1.3	2.8	0.1	5.2	3.5	-3.9
<b>Change in inventories</b>								
<b>Gross capital formation</b>	<b>2.1</b>	<b>-3.8</b>	<b>11.0</b>	<b>16.3</b>	<b>-3.4</b>	<b>-4.7</b>	<b>12.7</b>	<b>-7.5</b>

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

	(Millions of Baht)							
	2015	2016	2017	2018	2019	2020r	2021r	2022p
<b>Construction</b>	<b>1,159,732</b>	<b>1,223,405</b>	<b>1,212,414</b>	<b>1,268,279</b>	<b>1,297,493</b>	<b>1,311,650</b>	<b>1,362,067</b>	<b>1,368,566</b>
<b>Private</b>	<b>529,357</b>	<b>524,010</b>	<b>526,729</b>	<b>561,595</b>	<b>571,075</b>	<b>555,311</b>	<b>559,878</b>	<b>566,998</b>
Dwellings	295,710	293,168	297,375	313,067	309,458	286,823	281,578	297,315
Non-dwelling construction	158,754	147,773	150,369	154,736	165,039	156,228	160,442	184,109
Other construction	57,532	65,225	61,007	74,370	77,657	95,683	102,736	70,479
Costs of ownership transfer	17,361	17,844	17,978	19,422	18,921	16,577	15,122	15,095
<b>Public</b>	<b>630,375</b>	<b>699,395</b>	<b>685,685</b>	<b>706,684</b>	<b>726,418</b>	<b>756,339</b>	<b>802,189</b>	<b>801,568</b>
Dwellings	18,863	16,185	15,368	15,166	17,374	11,695	13,806	16,311
Non-dwelling construction	149,717	128,549	133,582	134,742	139,027	129,065	133,368	128,356
Other construction	461,795	554,660	536,735	556,776	570,017	615,579	655,015	656,901
<b>Machinery and other equipment</b>	<b>2,211,337</b>	<b>2,236,496</b>	<b>2,366,763</b>	<b>2,462,590</b>	<b>2,514,892</b>	<b>2,323,718</b>	<b>2,441,161</b>	<b>2,691,137</b>
<b>Transport equipment</b>	<b>881,046</b>	<b>837,349</b>	<b>937,170</b>	<b>1,004,674</b>	<b>1,026,667</b>	<b>912,477</b>	<b>867,714</b>	<b>981,828</b>
Road motor equipment	757,286	731,921	799,668	867,410	890,031	798,055	755,218	860,770
Other vehicles	123,760	105,428	137,502	137,264	136,636	114,422	112,496	121,058
<b>Machinery and equipment</b>	<b>1,330,291</b>	<b>1,399,147</b>	<b>1,429,593</b>	<b>1,457,916</b>	<b>1,488,225</b>	<b>1,411,241</b>	<b>1,573,447</b>	<b>1,709,309</b>
Industrial machinery	707,781	757,497	760,681	778,924	792,588	722,431	809,294	862,445
Office equipment	622,510	641,650	668,912	678,992	695,637	688,810	764,153	846,864
<b>Gross fixed capital formation</b>	<b>3,371,069</b>	<b>3,459,901</b>	<b>3,579,177</b>	<b>3,730,869</b>	<b>3,812,385</b>	<b>3,635,368</b>	<b>3,803,228</b>	<b>4,059,703</b>

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

	(Million Baht)							
	2015	2016	2017	2018	2019	2020r	2021r	2022p
<b>Construction</b>	<b>784,133</b>	<b>846,807</b>	<b>829,249</b>	<b>855,607</b>	<b>868,819</b>	<b>884,812</b>	<b>904,878</b>	<b>884,806</b>
<b>Private</b>	<b>361,713</b>	<b>365,590</b>	<b>362,390</b>	<b>380,325</b>	<b>382,539</b>	<b>374,711</b>	<b>372,362</b>	<b>366,820</b>
Dwellings	198,656	203,129	203,346	210,722	204,554	190,819	184,775	190,077
Non-dwelling construction	108,128	103,664	104,006	105,438	108,762	103,875	104,954	116,900
Other construction	40,091	43,317	39,830	47,695	52,784	65,541	69,415	46,417
Costs of ownership transfer	13,753	14,497	14,384	15,315	15,016	13,223	11,887	11,387
<b>Public</b>	<b>420,053</b>	<b>478,040</b>	<b>463,837</b>	<b>472,272</b>	<b>483,174</b>	<b>506,834</b>	<b>529,100</b>	<b>514,667</b>
Dwellings	12,456	10,950	10,376	10,083	11,362	8,084	9,476	10,715
Non-dwelling construction	96,234	85,783	88,792	88,713	88,850	87,026	87,371	81,370
Other construction	310,447	381,412	364,606	373,452	382,968	412,151	432,707	423,110
<b>Machinery and other equipment</b>	<b>1,556,729</b>	<b>1,559,793</b>	<b>1,621,990</b>	<b>1,692,106</b>	<b>1,729,422</b>	<b>1,587,318</b>	<b>1,642,837</b>	<b>1,721,500</b>
<b>Transport equipment</b>	<b>718,438</b>	<b>666,776</b>	<b>754,905</b>	<b>810,671</b>	<b>824,408</b>	<b>725,905</b>	<b>672,212</b>	<b>726,104</b>
Road motor equipment	597,226	565,417	630,559	677,426	696,693	619,141	567,272	623,206
Other vehicles	124,576	101,403	126,746	135,774	128,211	106,070	105,480	100,886
<b>Machinery and equipment</b>	<b>850,448</b>	<b>893,733</b>	<b>880,003</b>	<b>900,367</b>	<b>923,388</b>	<b>871,284</b>	<b>963,133</b>	<b>992,100</b>
Industrial machinery	488,658	499,358	479,014	491,664	509,460	461,497	512,997	517,852
Office equipment	360,303	390,521	396,221	403,917	409,321	403,815	443,768	466,802
<b>Gross fixed capital formation</b>	<b>2,350,865</b>	<b>2,418,543</b>	<b>2,463,149</b>	<b>2,560,080</b>	<b>2,610,781</b>	<b>2,486,963</b>	<b>2,562,913</b>	<b>2,621,321</b>

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)

	2015	2016	2017	2018	2019	2020r	2021r	2022p
<b>Construction</b>	<b>165.3</b>	<b>178.6</b>	<b>174.8</b>	<b>180.4</b>	<b>183.2</b>	<b>186.6</b>	<b>190.8</b>	<b>186.6</b>
<b>Private</b>	<b>182.0</b>	<b>183.9</b>	<b>182.3</b>	<b>191.3</b>	<b>192.5</b>	<b>188.5</b>	<b>187.3</b>	<b>184.5</b>
<i>Dwellings</i>	190.9	195.2	195.4	202.5	196.6	183.4	177.6	182.7
<i>Non-dwelling construction</i>	168.4	161.5	162.0	164.2	169.4	161.8	163.5	182.1
<i>Other construction</i>	176.4	190.5	175.2	209.8	232.2	288.3	305.3	204.2
<i>Costs of ownership transfer</i>	177.1	186.7	185.2	197.2	193.4	170.3	153.1	146.6
<b>Public</b>	<b>152.5</b>	<b>173.5</b>	<b>168.4</b>	<b>171.4</b>	<b>175.4</b>	<b>184.0</b>	<b>192.1</b>	<b>186.8</b>
<i>Dwellings</i>	154.2	135.5	128.4	124.8	140.6	100.0	117.3	132.6
<i>Non-dwelling construction</i>	261.9	233.4	241.6	241.4	241.8	236.8	237.8	221.4
<i>Other construction</i>	134.6	165.4	158.1	161.9	166.0	178.7	187.6	183.4
<b>Machinery and other equipment</b>	<b>197.1</b>	<b>197.5</b>	<b>205.3</b>	<b>214.2</b>	<b>218.9</b>	<b>200.9</b>	<b>208.0</b>	<b>217.9</b>
<b>Transport equipment</b>	<b>317.3</b>	<b>294.5</b>	<b>333.4</b>	<b>358.1</b>	<b>364.1</b>	<b>320.6</b>	<b>296.9</b>	<b>320.7</b>
<i>Road motor equipment</i>	336.6	318.7	355.4	381.8	392.6	348.9	319.7	351.2
<i>Other vehicles</i>	254.4	207.1	258.9	277.3	261.9	216.6	215.4	206.0
<b>Machinery and equipment</b>	<b>150.9</b>	<b>158.6</b>	<b>156.2</b>	<b>159.8</b>	<b>163.9</b>	<b>154.6</b>	<b>170.9</b>	<b>176.0</b>
<i>Industrial machinery</i>	150.8	154.1	147.8	151.7	157.2	142.4	158.3	159.8
<i>Office equipment</i>	150.5	163.1	165.4	168.7	170.9	168.6	185.3	194.9
<b>Gross fixed capital formation</b>	<b>186.0</b>	<b>191.3</b>	<b>194.8</b>	<b>202.5</b>	<b>206.5</b>	<b>196.7</b>	<b>202.7</b>	<b>207.3</b>

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

	2015	2016	2017	2018	2019	2020r	2021r	2022p
	Percent							
<b>Construction</b>	<b>15.7</b>	<b>8.0</b>	<b>-2.1</b>	<b>3.2</b>	<b>1.5</b>	<b>1.8</b>	<b>2.3</b>	<b>-2.2</b>
<b>Private</b>	<b>0.3</b>	<b>1.1</b>	<b>-0.9</b>	<b>4.9</b>	<b>0.6</b>	<b>-2.0</b>	<b>-0.6</b>	<b>-1.5</b>
<i>Dwellings</i>	-0.8	2.3	0.1	3.6	-2.9	-6.7	-3.2	2.9
<i>Non-dwelling construction</i>	1.4	-4.1	0.3	1.4	3.2	-4.5	1.0	11.4
<i>Other construction</i>	2.7	8.0	-8.0	19.7	10.7	24.2	5.9	-33.1
<i>Costs of ownership transfer</i>	1.5	5.4	-0.8	6.5	-2.0	-11.9	-10.1	-4.2
<b>Public</b>	<b>32.6</b>	<b>13.8</b>	<b>-3.0</b>	<b>1.8</b>	<b>2.3</b>	<b>4.9</b>	<b>4.4</b>	<b>-2.7</b>
<i>Dwellings</i>	-15.2	-12.1	-5.2	-2.8	12.7	-28.9	17.2	13.1
<i>Non-dwelling construction</i>	47.0	-10.9	3.5	-0.1	0.2	-2.1	0.4	-6.9
<i>Other construction</i>	31.6	22.9	-4.4	2.4	2.5	7.6	5.0	-2.2
<b>Machinery and other equipment</b>	<b>-0.9</b>	<b>0.2</b>	<b>4.0</b>	<b>4.3</b>	<b>2.2</b>	<b>-8.2</b>	<b>3.5</b>	<b>4.8</b>
<b>Transport equipment</b>	<b>-0.2</b>	<b>-7.2</b>	<b>13.2</b>	<b>7.4</b>	<b>1.7</b>	<b>-11.9</b>	<b>-7.4</b>	<b>8.0</b>
<i>Road motor equipment</i>	0.5	-5.3	11.5	7.4	2.8	-11.1	-8.4	9.9
<i>Other vehicles</i>	-4.0	-18.6	25.0	7.1	-5.6	-17.3	-0.6	-4.4
<b>Machinery and equipment</b>	<b>-1.4</b>	<b>5.1</b>	<b>-1.5</b>	<b>2.3</b>	<b>2.6</b>	<b>-5.6</b>	<b>10.5</b>	<b>3.0</b>
<i>Industrial machinery</i>	-2.0	2.2	-4.1	2.6	3.6	-9.4	11.2	0.9
<i>Office equipment</i>	-0.7	8.4	1.5	1.9	1.3	-1.3	9.9	5.2
<b>Gross fixed capital formation</b>	<b>4.4</b>	<b>2.9</b>	<b>1.8</b>	<b>3.9</b>	<b>2.0</b>	<b>-4.7</b>	<b>3.1</b>	<b>2.3</b>



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

	(Millions of Baht)							
	2015	2016	2017	2018	2019	2020r	2021r	2022p
<b>Tangible fixed assets</b>	<b>3,270,124</b>	<b>3,335,363</b>	<b>3,442,805</b>	<b>3,586,677</b>	<b>3,677,927</b>	<b>3,503,091</b>	<b>3,653,470</b>	<b>3,874,243</b>
<i>Dwellings</i>	314,573	309,353	312,743	328,233	326,832	298,518	295,384	313,626
<i>Other buildings and structures</i>	800,134	821,420	811,325	843,312	879,497	933,425	981,487	945,774
<i>Machinery and equipment</i>	2,150,867	2,198,316	2,311,151	2,404,830	2,459,968	2,261,401	2,365,905	2,600,925
<i>Cultivated assets</i>	4,550	6,274	7,586	10,302	11,630	9,747	10,694	13,918
<b>Intangible fixed assets</b>	<b>83,585</b>	<b>106,694</b>	<b>118,393</b>	<b>124,770</b>	<b>115,537</b>	<b>115,700</b>	<b>134,636</b>	<b>170,365</b>
<i>Mineral exploration</i>	34,108	63,234	68,805	75,725	70,666	60,363	66,584	89,414
<i>Computer software</i>	49,477	43,460	49,588	49,045	44,871	55,337	68,052	80,951
<b>Costs of ownership transfer</b>	<b>17,361</b>	<b>17,844</b>	<b>17,978</b>	<b>19,422</b>	<b>18,921</b>	<b>16,577</b>	<b>15,122</b>	<b>15,095</b>
<b>Gross fixed capital formation</b>	<b>3,371,069</b>	<b>3,459,901</b>	<b>3,579,177</b>	<b>3,730,869</b>	<b>3,812,385</b>	<b>3,635,368</b>	<b>3,803,228</b>	<b>4,059,703</b>

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

	(Million Baht)							
	2015	2016	2017	2018	2019	2020r	2021r	2022p
<b>Tangible fixed assets</b>	<b>2,272,657</b>	<b>2,326,421</b>	<b>2,366,570</b>	<b>2,461,180</b>	<b>2,509,530</b>	<b>2,382,357</b>	<b>2,446,206</b>	<b>2,488,678</b>
<i>Dwellings</i>	210,935	213,871	213,501	220,569	215,702	198,680	193,973	200,465
<i>Other buildings and structures</i>	609,222	631,292	617,836	636,865	652,110	694,156	716,076	673,989
<i>Machinery and equipment</i>	1,434,959	1,463,364	1,512,762	1,578,654	1,615,692	1,474,316	1,520,479	1,590,252
<i>Cultivated assets</i>	24,711	32,424	39,647	48,145	53,261	44,868	47,966	59,919
<b>Intangible fixed assets</b>	<b>66,416</b>	<b>81,313</b>	<b>86,183</b>	<b>87,676</b>	<b>90,351</b>	<b>96,480</b>	<b>112,166</b>	<b>132,059</b>
<i>Mineral exploration</i>	27,669	50,015	50,653	52,354	57,377	54,405	62,690	80,183
<i>Computer software</i>	39,845	32,759	36,967	36,773	34,181	42,939	50,402	54,327
<b>Costs of ownership transfer</b>	<b>13,753</b>	<b>14,497</b>	<b>14,384</b>	<b>15,315</b>	<b>15,016</b>	<b>13,223</b>	<b>11,887</b>	<b>11,387</b>
<b>Gross fixed capital formation</b>	<b>2,350,865</b>	<b>2,418,543</b>	<b>2,463,149</b>	<b>2,560,080</b>	<b>2,610,781</b>	<b>2,486,963</b>	<b>2,562,913</b>	<b>2,621,321</b>

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)**

	2015	2016	2017	2018	2019	2020r	2021r	2022p
<b>Tangible fixed assets</b>	<b>182.1</b>	<b>186.4</b>	<b>189.6</b>	<b>197.2</b>	<b>201.1</b>	<b>190.9</b>	<b>196.0</b>	<b>199.4</b>
<i>Dwellings</i>	188.1	190.7	190.4	196.7	192.3	177.2	173.0	178.8
<i>Other buildings and structures</i>	173.7	180.0	176.1	181.6	185.9	197.9	204.2	192.2
<i>Machinery and equipment</i>	184.2	187.9	194.2	202.7	207.4	189.3	195.2	204.2
<i>Cultivated assets</i>	392.5	515.0	629.7	764.7	846.0	712.7	761.9	951.7
<b>Intangible fixed assets</b>	<b>794.5</b>	<b>972.8</b>	<b>1,031.0</b>	<b>1,048.9</b>	<b>1,080.9</b>	<b>1,154.2</b>	<b>1,341.9</b>	<b>1,579.9</b>
<i>Mineral exploration</i>	3,325.6	6,011.4	6,088.1	6,292.5	6,896.3	6,539.1	7,534.9	9,637.4
<i>Computer software</i>	529.4	435.2	491.1	488.5	454.1	570.5	669.6	721.8
<b>Costs of ownership transfer</b>	<b>177.1</b>	<b>186.7</b>	<b>185.3</b>	<b>197.2</b>	<b>193.4</b>	<b>170.3</b>	<b>153.1</b>	<b>146.7</b>
<b>Gross fixed capital formation</b>	<b>186.0</b>	<b>191.3</b>	<b>194.8</b>	<b>202.5</b>	<b>206.5</b>	<b>196.7</b>	<b>202.7</b>	<b>207.3</b>

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

	Percent							
	2015	2016	2017	2018	2019	2020r	2021r	2022p
<b>Tangible fixed assets</b>	<b>4.4</b>	<b>2.4</b>	<b>1.7</b>	<b>4.0</b>	<b>2.0</b>	<b>-5.1</b>	<b>2.7</b>	<b>1.7</b>
<i>Dwellings</i>	-1.8	1.4	-0.2	3.3	-2.2	-7.9	-2.4	3.3
<i>Other buildings and structures</i>	33.6	3.6	-2.1	3.1	2.4	6.4	3.2	-5.9
<i>Machinery and equipment</i>	-3.4	2.0	3.4	4.4	2.3	-8.8	3.1	4.6
<i>Cultivated assets</i>	15.6	31.2	22.3	21.4	10.6	-15.8	6.9	24.9
<b>Intangible fixed assets</b>	<b>2.1</b>	<b>22.4</b>	<b>6.0</b>	<b>1.7</b>	<b>3.1</b>	<b>6.8</b>	<b>16.3</b>	<b>17.7</b>
<i>Mineral exploration</i>	-3.5	80.8	1.3	3.4	9.6	-5.2	15.2	27.9
<i>Computer software</i>	6.4	-17.8	12.8	-0.5	-7.0	25.6	17.4	7.8
<b>Costs of ownership transfer</b>	<b>1.5</b>	<b>5.4</b>	<b>-0.8</b>	<b>6.5</b>	<b>-2.0</b>	<b>-11.9</b>	<b>-10.1</b>	<b>-4.2</b>
<b>Gross fixed capital formation</b>	<b>4.4</b>	<b>2.9</b>	<b>1.8</b>	<b>3.9</b>	<b>2.0</b>	<b>-4.7</b>	<b>3.1</b>	<b>2.3</b>

## ***National Income***

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

(Millions of Baht)

	2015	2016	2017	2018	2019	2020r	2021r	2022p
<b>Compensation of employees</b>	<b>4,554,169</b>	<b>4,711,391</b>	<b>4,855,252</b>	<b>5,044,149</b>	<b>5,170,262</b>	<b>5,006,559</b>	<b>5,064,442</b>	<b>5,404,914</b>
Wages and salaries	4,026,068	4,141,598	4,252,535	4,409,000	4,481,694	4,325,433	4,365,059	4,645,586
Employers' social contributions	528,101	569,793	602,717	635,149	688,568	681,126	699,383	759,328
<i>Employers' actual social contributions</i>	169,913	176,570	182,437	194,909	203,300	185,576	171,375	185,926
<i>Employers' imputed social contributions</i>	358,188	393,223	420,280	440,240	485,268	495,550	528,008	573,402
<b>Households and NPISHs mixed income and operating surplus</b>	<b>2,497,565</b>	<b>2,741,607</b>	<b>2,970,159</b>	<b>3,137,568</b>	<b>3,418,171</b>	<b>3,098,905</b>	<b>2,976,431</b>	<b>3,356,259</b>
<b>Households and NPISHs property income receivable</b>	<b>1,078,826</b>	<b>1,048,132</b>	<b>1,036,818</b>	<b>1,102,916</b>	<b>1,149,120</b>	<b>1,093,672</b>	<b>1,121,482</b>	<b>1,198,614</b>
Interest	272,989	252,739	236,594	239,911	256,541	235,613	209,249	218,828
Distributed income of corporations	561,602	539,754	533,305	580,027	595,898	544,871	607,303	664,790
Investment income disbursements	163,185	173,698	184,944	198,072	210,150	224,484	214,465	221,604
Rent	81,050	81,941	81,975	84,906	86,531	88,704	90,465	93,392
<b>General government property income receivable</b>	<b>223,094</b>	<b>221,074</b>	<b>235,433</b>	<b>253,472</b>	<b>255,136</b>	<b>212,675</b>	<b>242,003</b>	<b>237,032</b>
Interest	45,883	44,193	44,185	42,500	42,040	39,035	36,005	46,150
Distributed income of corporations	130,004	121,228	130,150	145,396	154,281	115,037	145,813	128,933
Investment income disbursements	39,967	43,406	45,382	47,538	49,721	45,847	47,724	48,552
Rent	7,240	12,247	15,716	18,038	9,094	12,756	12,461	13,397
<b>Appropriated corporation profit</b>	<b>1,452,344</b>	<b>1,771,393</b>	<b>2,083,544</b>	<b>2,191,815</b>	<b>2,274,106</b>	<b>2,062,652</b>	<b>2,341,090</b>	<b>2,720,245</b>
Savings of corporations	928,064	1,286,907	1,573,381	1,575,165	1,647,327	1,482,862	1,728,828	2,052,993
Corporate current taxes on income	653,868	644,309	649,281	748,882	750,435	634,175	671,222	801,896
Corporate transfer payments	-129,588	-159,823	-139,118	-132,232	-123,656	-54,385	-58,960	-134,644
<i>Received by general government</i>	29,724	4,366	22,475	20,781	20,584	26,859	40,288	37,634
<i>Received by households and NPISHs</i>	24,563	23,322	23,680	25,827	25,840	24,144	28,745	29,506
<i>Received by Row (net)</i>	-183,875	-187,511	-185,273	-178,840	-170,080	-105,388	-127,993	-201,784
<b>Households and NPISHs property income payable</b>	<b>322,480</b>	<b>319,842</b>	<b>329,753</b>	<b>345,612</b>	<b>364,406</b>	<b>352,852</b>	<b>353,002</b>	<b>359,212</b>
Interest	241,430	237,901	247,778	260,706	277,875	264,148	262,537	265,820
Rent	81,050	81,941	81,975	84,906	86,531	88,704	90,465	93,392
<b>General government property income payable</b>	<b>197,487</b>	<b>210,711</b>	<b>211,771</b>	<b>221,909</b>	<b>232,209</b>	<b>224,225</b>	<b>244,188</b>	<b>245,740</b>
Interest	157,516	167,300	166,382	174,366	182,481	178,373	196,461	197,186
Investment income disbursements	39,967	43,406	45,382	47,538	49,721	45,847	47,724	48,552
Rent	4	5	7	5	7	5	3	2
<b>Taxes on production and imports less subsidies</b>	<b>1,403,640</b>	<b>1,453,542</b>	<b>1,526,468</b>	<b>1,644,282</b>	<b>1,685,533</b>	<b>1,442,566</b>	<b>1,437,460</b>	<b>1,436,083</b>
<b>Net National Income (NNI)</b>	<b>10,689,671</b>	<b>11,416,586</b>	<b>12,166,150</b>	<b>12,806,681</b>	<b>13,355,713</b>	<b>12,339,952</b>	<b>12,585,718</b>	<b>13,748,195</b>
Plus : Consumption of fixed capital	2,344,834	2,488,386	2,628,663	2,775,404	2,912,542	2,974,143	3,040,598	3,130,027
<b>Gross National Income, (GNI) <sup>1/</sup></b>	<b>13,034,505</b>	<b>13,904,972</b>	<b>14,794,813</b>	<b>15,582,085</b>	<b>16,268,255</b>	<b>15,314,095</b>	<b>15,626,316</b>	<b>16,878,222</b>
Less : Primary income from the rest of the world, net	-708,973	-685,365	-693,851	-791,255	-620,914	-347,199	-562,295	-499,795
<b>Gross Domestic Product (GDP)</b>	<b>13,743,478</b>	<b>14,590,337</b>	<b>15,488,664</b>	<b>16,373,340</b>	<b>16,889,169</b>	<b>15,661,294</b>	<b>16,188,611</b>	<b>17,378,017</b>

Note : <sup>1/</sup> GNI = GNP (Gross National Products)

Table 51 Savings and gross capital formation

(Millions of Baht)

	2015	2016	2017	2018	2019	2020r	2021r	2022p
Private sector	2,506,163	2,529,341	2,653,500	2,773,130	2,849,399	2,627,735	2,743,095	3,005,956
Public sector	864,906	930,560	925,677	957,739	962,986	1,007,633	1,060,133	1,053,747
Change in inventories	-298,624	-380,535	-26,962	398,424	209,730	85,035	830,848	776,447
<b>Gross domestic capital formation</b>	<b>3,072,445</b>	<b>3,079,366</b>	<b>3,552,215</b>	<b>4,129,293</b>	<b>4,022,115</b>	<b>3,720,403</b>	<b>4,634,076</b>	<b>4,836,150</b>
Net savings	1,509,172	1,899,924	2,318,467	2,412,536	2,441,957	1,434,464	1,416,580	1,505,774
Private sector	1,440,213	1,837,752	2,234,485	2,281,900	2,326,907	2,236,251	2,487,798	1,948,833
<i>Households and NPISHs</i>	637,481	760,267	898,032	910,529	932,827	932,946	998,081	198,684
<i>Corporations and cooperatives</i>	802,732	1,077,485	1,336,453	1,371,371	1,394,080	1,303,305	1,489,717	1,750,149
Public sector	68,959	62,172	83,982	130,636	115,050	-801,787	-1,071,218	-443,059
<i>General government</i>	-56,373	-147,250	-152,946	-73,158	-138,197	-981,344	-1,310,329	-745,903
<i>Public corporations and government enterprises</i>	125,332	209,422	236,928	203,794	253,247	179,557	239,111	302,844
Provision for consumption of fixed capital	2,344,834	2,488,386	2,628,663	2,775,404	2,912,542	2,974,143	3,040,598	3,130,027
Less : Statistical discrepancy	-172,511	-225,672	-95,683	144,668	150,952	33,515	153,737	350,959
Gross savings	4,026,517	4,613,982	5,042,813	5,043,272	5,203,547	4,375,092	4,303,441	4,284,842
Less : Surplus of the nation on current account	954,072	1,534,616	1,490,598	913,979	1,181,432	654,689	-330,635	-551,308
<b>Finance of gross domestic capital formation</b>	<b>3,072,445</b>	<b>3,079,366</b>	<b>3,552,215</b>	<b>4,129,293</b>	<b>4,022,115</b>	<b>3,720,403</b>	<b>4,634,076</b>	<b>4,836,150</b>

Table 52 General government income account

	(Millions of Baht)							
	2015	2016	2017	2018	2019	2020r	2021r	2022p
<b>Income</b>								
Primary income receivable	1,957,690	2,016,359	2,110,215	2,266,982	2,310,483	2,056,471	2,128,045	2,217,473
Gross operation surplus	261,017	273,413	286,657	300,641	310,087	317,952	325,420	334,513
Taxes on production and imports	1,473,579	1,521,872	1,588,125	1,712,869	1,745,260	1,525,844	1,560,622	1,645,928
Property income	223,094	221,074	235,433	253,472	255,136	212,675	242,003	237,032
Interest	45,883	44,193	44,185	42,500	42,040	39,035	36,005	46,150
Dividends	130,004	121,228	130,150	145,396	154,281	115,037	145,813	128,933
Investment income payable on pension entitlements <sup>1/</sup>	39,967	43,406	45,382	47,538	49,721	45,847	47,724	48,552
Rent	7,240	12,247	15,716	18,038	9,094	12,756	12,461	13,397
Secondary income receivable	2,201,660	2,206,884	2,296,417	2,395,181	2,477,684	2,275,015	2,368,150	2,480,647
Current taxes on income, wealth, etc.	944,041	945,045	940,953	1,053,244	1,082,561	947,276	975,264	1,161,921
Taxes on income	906,322	908,726	897,742	1,004,085	1,032,703	897,716	925,438	1,106,213
Other current taxes	37,719	36,319	43,211	49,159	49,858	49,560	49,826	55,708
Social contributions	460,843	510,514	542,202	573,014	615,765	590,017	598,072	656,830
Other current transfers	796,776	751,325	813,262	768,923	779,358	737,722	794,814	661,896
Non-life insurance claims	1	1	1	-	17	17	14	16
Current transfers within general government	734,081	701,203	762,526	710,498	724,119	682,805	733,966	606,522
Current international cooperation	2,190	3,009	2,572	3,180	2,673	3,255	4,509	2,166
Miscellaneous current transfers	60,504	47,112	48,163	55,245	52,549	51,645	56,325	53,192
<b>Total income receivable</b>	<b>4,159,350</b>	<b>4,223,243</b>	<b>4,406,632</b>	<b>4,662,163</b>	<b>4,788,167</b>	<b>4,331,486</b>	<b>4,496,195</b>	<b>4,698,120</b>
<b>Use of income</b>								
Primary income uses	267,426	279,041	273,428	290,496	291,936	307,503	367,350	455,585
Property income	197,487	210,711	211,771	221,909	232,209	224,225	244,188	245,740
Interest	157,516	167,300	166,382	174,366	182,481	178,373	196,461	197,186
Investment income payable on pension entitlements <sup>1/</sup>	39,967	43,406	45,382	47,538	49,721	45,847	47,724	48,552
Rent	4	5	7	5	7	5	3	2
Subsidies	69,939	68,330	61,657	68,587	59,727	83,278	123,162	209,845
Secondary income uses	1,199,395	1,222,223	1,330,631	1,346,773	1,439,699	1,783,259	2,058,805	1,470,571
Social benefits other than social transfers in kind	377,027	421,938	459,179	526,108	578,218	652,269	679,918	712,201
Social security benefits in cash	31,332	36,394	38,769	45,333	51,242	87,141	83,206	72,779
Other social insurance benefits	252,867	294,198	316,394	335,134	365,699	388,673	409,664	451,111
Social assistance benefits in cash	92,828	91,346	104,016	145,641	161,277	176,455	187,048	188,311
Other current transfers	822,368	800,285	871,452	820,665	861,481	1,130,990	1,378,887	758,370
Net non-life insurance premiums	200	184	251	279	296	306	364	386
Current transfers within general government	734,081	701,203	762,526	710,498	724,119	682,805	733,966	606,522
Current international cooperation	1,602	2,548	1,985	2,008	1,430	1,480	1,345	1,651
Miscellaneous current transfers	86,485	96,350	106,690	107,880	135,636	446,399	643,212	149,811
<b>Total income payable</b>	<b>1,466,821</b>	<b>1,501,264</b>	<b>1,604,059</b>	<b>1,637,269</b>	<b>1,731,635</b>	<b>2,090,762</b>	<b>2,426,155</b>	<b>1,926,156</b>
<b>Gross disposable income</b>	<b>2,692,529</b>	<b>2,721,979</b>	<b>2,802,573</b>	<b>3,024,894</b>	<b>3,056,532</b>	<b>2,240,724</b>	<b>2,070,040</b>	<b>2,771,964</b>
Final consumption expenditure	2,353,042	2,460,686	2,524,403	2,648,220	2,730,872	2,786,909	2,951,397	3,079,832
Adjustment for the change in pension entitlement	134,843	135,130	144,459	149,191	153,770	117,207	103,552	103,522
Net saving	-56,373	-147,250	-152,946	-73,158	-138,197	-981,344	-1,310,329	-745,903
Consumption of fixed capital	261,017	273,413	286,657	300,641	310,087	317,952	325,420	334,513
<b>Total use of gross income</b>	<b>4,159,350</b>	<b>4,223,243</b>	<b>4,406,632</b>	<b>4,662,163</b>	<b>4,788,167</b>	<b>4,331,486</b>	<b>4,496,195</b>	<b>4,698,120</b>

Note : - is zero or rounded to zero

n.a. is not available

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

Table 53 Households and NPISHs income account

(Millions of Baht)

	2015	2016	2017	2018	2019	2020r	2021r	2022p
<b>Income</b>								
Primary income receivable	8,319,090	8,695,314	9,067,594	9,493,280	9,947,256	9,410,300	9,387,359	10,191,409
<i>Compensation of employees</i>	4,554,169	4,711,391	4,855,252	5,044,149	5,170,262	5,006,559	5,064,442	5,404,914
<i>Gross mixed income and operating surplus</i>	2,686,095	2,935,791	3,175,524	3,346,215	3,627,874	3,310,069	3,201,435	3,587,881
<i>Property income receivable</i>	1,078,826	1,048,132	1,036,818	1,102,916	1,149,120	1,093,672	1,121,482	1,198,614
Secondary income receivable	609,837	656,654	736,624	817,791	941,764	1,337,717	1,603,588	1,170,132
Social benefits other than social transfers in kind	377,027	421,938	459,179	526,108	578,218	652,269	679,918	712,201
Other current transfers	232,810	234,716	277,445	291,683	363,546	685,448	923,670	457,931
<i>from corporate</i>	24,563	23,322	23,680	25,827	25,840	24,144	28,745	29,506
<i>from general government</i>	76,012	68,835	95,688	93,017	120,707	435,305	641,149	147,785
<i>from the rest of the world</i>	132,235	142,559	158,077	172,839	216,999	225,999	253,776	280,640
<b>Total income receivable</b>	<b>8,928,927</b>	<b>9,351,968</b>	<b>9,804,218</b>	<b>10,311,071</b>	<b>10,889,020</b>	<b>10,748,017</b>	<b>10,990,947</b>	<b>11,361,541</b>
<b>Use of income</b>								
Primary income payable	322,480	319,842	329,753	345,612	364,406	352,852	353,002	359,212
Property income payable	322,480	319,842	329,753	345,612	364,406	352,852	353,002	359,212
Secondary income payable	858,733	916,253	936,792	990,788	1,129,470	1,060,322	1,062,533	1,194,218
Current taxes on income, wealth, etc.	290,173	300,736	291,672	304,362	332,126	313,101	304,042	360,025
Net social security contribution	460,843	510,514	542,202	573,014	615,765	590,017	598,072	656,830
Other current transfers	107,717	105,003	102,918	113,412	181,579	157,204	160,419	177,363
<i>to general government</i>	20,108	15,048	14,436	19,322	16,757	13,403	13,624	13,162
<i>to the rest of the world</i>	87,609	89,955	88,482	94,090	164,822	143,801	146,795	164,201
<b>Total income payable</b>	<b>1,181,213</b>	<b>1,236,095</b>	<b>1,266,545</b>	<b>1,336,400</b>	<b>1,493,876</b>	<b>1,413,174</b>	<b>1,415,535</b>	<b>1,553,430</b>
<b>Gross Disposable income</b>	<b>7,747,714</b>	<b>8,115,873</b>	<b>8,537,673</b>	<b>8,974,671</b>	<b>9,395,144</b>	<b>9,334,843</b>	<b>9,575,412</b>	<b>9,808,111</b>
Final consumption expenditure	7,056,546	7,296,552	7,578,735	8,004,686	8,406,384	8,307,940	8,455,879	9,481,327
Less : Adjustment for the change in pension entitlement <sup>1/</sup>	134,843	135,130	144,459	149,191	153,770	117,207	103,552	103,522
Net saving	637,481	760,267	898,032	910,529	932,827	932,946	998,081	198,684
Consumption of fixed capital	188,530	194,184	205,365	208,647	209,703	211,164	225,004	231,622
<b>Total use of gross disposable income</b>	<b>7,747,714</b>	<b>8,115,873</b>	<b>8,537,673</b>	<b>8,974,671</b>	<b>9,395,144</b>	<b>9,334,843</b>	<b>9,575,412</b>	<b>9,808,111</b>
Per capita net disposable income (Baht)	111,187	115,946	121,109	126,847	132,517	131,259	134,175	137,099
Per capita final consumption expenditure (Baht)	103,794	106,797	110,156	115,830	121,278	119,523	121,339	135,736
Per capita net saving (Baht)	9,377	11,128	13,053	13,176	13,458	13,422	14,322	2,844
Population (1,000 Heads)	67,986	68,322	68,800	69,107	69,315	69,509	69,688	69,851

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

Table 54 Compensation of employees

	(Millions of Baht)							
	2015	2016	2017	2018	2019	2020r	2021r	2022p
<b>Domestic</b>	<b>4,533,734</b>	<b>4,689,364</b>	<b>4,845,989</b>	<b>5,040,726</b>	<b>5,245,584</b>	<b>5,076,977</b>	<b>5,123,544</b>	<b>5,435,307</b>
<b>Agriculture</b>	<b>187,482</b>	<b>189,600</b>	<b>196,631</b>	<b>202,856</b>	<b>208,436</b>	<b>208,107</b>	<b>217,191</b>	<b>232,513</b>
Agriculture, forestry and fishing	187,482	189,600	196,631	202,856	208,436	208,107	217,191	232,513
<b>Non-Agriculture</b>	<b>4,346,252</b>	<b>4,499,764</b>	<b>4,649,358</b>	<b>4,837,870</b>	<b>5,037,148</b>	<b>4,868,870</b>	<b>4,906,353</b>	<b>5,202,794</b>
<b>Industrial</b>	<b>1,358,017</b>	<b>1,387,537</b>	<b>1,413,015</b>	<b>1,468,439</b>	<b>1,497,751</b>	<b>1,418,137</b>	<b>1,432,681</b>	<b>1,559,821</b>
Mining and quarrying	29,613	28,541	29,309	31,087	31,042	27,611	30,249	32,658
Manufacturing	1,221,541	1,250,049	1,267,083	1,312,854	1,332,154	1,270,924	1,284,803	1,398,059
Electricity, gas, steam and air conditioning supply	96,199	98,177	104,875	112,452	120,745	106,433	103,693	114,172
Water supply; sewerage, waste management and remediation activities	10,664	10,770	11,748	12,046	13,810	13,169	13,936	14,932
<b>Services</b>	<b>2,988,235</b>	<b>3,112,227</b>	<b>3,236,343</b>	<b>3,369,431</b>	<b>3,539,397</b>	<b>3,450,733</b>	<b>3,473,672</b>	<b>3,642,973</b>
Construction	197,968	204,327	200,897	202,241	205,893	207,623	208,257	214,507
Wholesale and retail trade; repair of motor vehicles and motorcycles	426,209	449,858	474,971	489,851	522,165	510,338	507,726	549,899
Transportation and storage	164,155	171,335	182,890	191,887	203,935	167,867	159,139	169,341
Accommodation and food service activities	133,351	146,888	166,060	182,710	199,646	132,215	110,859	148,801
Information and communication	72,531	73,325	74,004	75,570	83,282	76,925	77,794	77,631
Financial and insurance activities	308,564	319,428	326,894	341,666	365,190	359,201	366,369	362,220
Real estate activities	50,086	50,840	53,029	54,713	57,435	58,616	57,254	58,951
Professional, scientific and technical activities	74,324	74,718	76,717	79,715	80,045	78,201	76,357	78,713
Administrative and support service activities	58,244	59,561	61,426	64,130	66,575	54,663	52,016	55,746
Public administration and defence; compulsory social security	626,484	653,625	678,517	705,506	732,278	760,539	781,751	797,173
Education	561,078	572,680	586,792	613,999	638,580	650,184	664,860	689,321
Human health and social work activities	242,562	259,597	275,474	286,333	300,487	312,297	331,001	356,707
Arts, entertainment and recreation	11,224	11,764	12,494	13,155	13,273	12,336	11,631	11,982
Other service activities	33,646	36,178	38,755	40,585	42,547	40,873	40,094	41,839
Activities of households as employers	27,809	28,103	27,423	27,370	28,066	28,855	28,564	30,142
<b>The rest of the world</b>	<b>20,435</b>	<b>22,027</b>	<b>9,263</b>	<b>3,423</b>	<b>-75,322</b>	<b>-70,418</b>	<b>-59,102</b>	<b>-30,393</b>
Receive	69,638	78,732	69,943	68,310	36,434	32,241	36,369	32,286
Payment	49,203	56,705	60,680	64,887	111,756	102,659	95,471	62,679
<b>Total</b>	<b>4,554,169</b>	<b>4,711,391</b>	<b>4,855,252</b>	<b>5,044,149</b>	<b>5,170,262</b>	<b>5,006,559</b>	<b>5,064,442</b>	<b>5,404,914</b>

Table 55 Households and NPISHs mixed income and operating surplus

(Millions of Baht)

	2015	2016	2017	2018	2019	2020r	2021r	2022p
Farm income	738,530	751,775	782,799	809,540	824,700	822,063	847,503	913,958
Other	1,759,035	1,989,832	2,187,360	2,328,028	2,593,471	2,276,842	2,128,928	2,442,301
<b>Total</b>	<b>2,497,565</b>	<b>2,741,607</b>	<b>2,970,159</b>	<b>3,137,568</b>	<b>3,418,171</b>	<b>3,098,905</b>	<b>2,976,431</b>	<b>3,356,259</b>

Table 56 Households and NPISHs property income receivable

(Million Baht)

	2015	2016	2017	2018	2019	2020r	2021r	2022p
<b>Rent</b>	<b>81,050</b>	<b>81,941</b>	<b>81,975</b>	<b>84,906</b>	<b>86,531</b>	<b>88,704</b>	<b>90,465</b>	<b>93,392</b>
Actual rent	15,880	16,051	16,053	16,626	16,945	17,253	17,525	18,146
Imputed rent	65,170	65,890	65,922	68,280	69,586	71,451	72,940	75,246
<b>Interest</b>	<b>272,989</b>	<b>252,739</b>	<b>236,594</b>	<b>239,911</b>	<b>256,541</b>	<b>235,613</b>	<b>209,249</b>	<b>218,828</b>
Interest paid by banks	244,766	220,082	208,606	208,751	222,234	203,550	175,635	181,635
Government bond interest	12,592	13,095	7,456	9,120	8,149	8,136	9,686	11,584
Interest received from the rest of the world	306	591	959	1,641	4,113	2,872	3,373	2,901
Others	15,325	18,971	19,573	20,399	22,045	21,055	20,555	22,708
<b>Distributed income of corporations</b>	<b>561,602</b>	<b>539,754</b>	<b>533,305</b>	<b>580,027</b>	<b>595,898</b>	<b>544,871</b>	<b>607,303</b>	<b>664,790</b>
Dividends from private corporations	491,033	460,236	445,691	487,100	498,972	455,900	511,760	568,688
Dividends from cooperatives	62,725	69,151	74,817	80,259	83,924	82,799	84,885	83,893
Dividends from public corporations	7,844	10,367	12,797	12,668	13,002	6,172	10,658	12,209
<b>Investment income disbursements</b>	<b>163,185</b>	<b>173,698</b>	<b>184,944</b>	<b>198,072</b>	<b>210,150</b>	<b>224,484</b>	<b>214,465</b>	<b>221,604</b>
Beneficiaries from provident fund	21,344	19,189	18,537	19,105	20,487	16,622	13,949	15,160
Beneficiaries from government pension fund	22,220	21,851	21,793	23,068	23,733	23,507	24,347	28,281
Investment income payable on pension entitlement <sup>1/</sup>	39,967	43,406	45,382	47,538	49,721	45,847	47,724	48,552
Investment income attributable to insurances policy holder	79,654	89,252	99,232	108,361	116,209	138,508	128,445	129,611
<b>Total</b>	<b>1,078,826</b>	<b>1,048,132</b>	<b>1,036,818</b>	<b>1,102,916</b>	<b>1,149,120</b>	<b>1,093,672</b>	<b>1,121,482</b>	<b>1,198,614</b>

Note : <sup>1/</sup> 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)

	2015	2016	2017	2018	2019	2020r	2021r	2022p
<b>Interest</b>	<b>241,430</b>	<b>237,901</b>	<b>247,778</b>	<b>260,706</b>	<b>277,875</b>	<b>264,148</b>	<b>262,537</b>	<b>265,820</b>
Interest paid to banks	135,542	128,885	131,835	139,581	154,636	142,071	142,240	143,795
Pawnshop interest	6,298	6,515	6,841	6,718	6,270	5,980	5,538	5,612
Interest on loan from life insurance policy	1,137	1,201	1,344	1,521	1,736	1,710	1,617	1,591
Interest paid to cooperatives	93,061	94,874	99,749	105,234	107,928	106,973	104,857	105,699
Interest paid to the rest of the world	433	536	520	495	476	359	653	1,005
Others	4,959	5,890	7,489	7,157	6,829	7,055	7,632	8,118
<b>Rent</b>	<b>81,050</b>	<b>81,941</b>	<b>81,975</b>	<b>84,906</b>	<b>86,531</b>	<b>88,704</b>	<b>90,465</b>	<b>93,392</b>
<b>Total</b>	<b>322,480</b>	<b>319,842</b>	<b>329,753</b>	<b>345,612</b>	<b>364,406</b>	<b>352,852</b>	<b>353,002</b>	<b>359,212</b>



Table 58 Saving of corporations

(Millions of Baht)

	2015	2016	2017	2018	2019	2020r	2021r	2022p
Saving of private corporation	792,651	1,066,605	1,325,151	1,360,048	1,381,697	1,293,740	1,480,470	1,740,648
Saving of public corporation and government enterprises	125,332	209,422	236,928	203,794	253,247	179,557	239,111	302,844
Saving of cooperatives	10,081	10,880	11,302	11,323	12,383	9,565	9,247	9,501
<b>Total</b>	<b>928,064</b>	<b>1,286,907</b>	<b>1,573,381</b>	<b>1,575,165</b>	<b>1,647,327</b>	<b>1,482,862</b>	<b>1,728,828</b>	<b>2,052,993</b>

Table 59 Corporate transfer payments received by household and NPISHs

(Million Baht)

	2015	2016	2017	2018	2019	2020r	2021r	2022p
Transfer from private corporation	20,152	20,835	20,682	22,226	21,275	20,200	23,539	24,534
Transfer from public corporation and government enterprises	3,241	1,982	2,451	2,583	2,990	1,781	2,693	2,482
Transfer from cooperatives	1,170	505	547	1,018	1,575	2,163	2,513	2,490
<b>Total</b>	<b>24,563</b>	<b>23,322</b>	<b>23,680</b>	<b>25,827</b>	<b>25,840</b>	<b>24,144</b>	<b>28,745</b>	<b>29,506</b>

Table 60 Taxes

(Million Baht)

	2015	2016	2017	2018	2019	2020r	2021r	2022p
<b>Taxes</b>								
<b>Current taxes on income, wealth, etc.</b>	<b>944,041</b>	<b>945,045</b>	<b>940,953</b>	<b>1,053,244</b>	<b>1,082,561</b>	<b>947,276</b>	<b>975,264</b>	<b>1,161,921</b>
Taxes on income	906,322	908,726	897,742	1,004,085	1,032,703	897,716	925,438	1,106,213
From corporation	632,293	623,236	622,758	717,834	717,422	601,970	639,447	767,066
From households	274,029	285,490	274,984	286,251	315,281	295,746	285,991	339,147
Other current taxes	37,719	36,319	43,211	49,159	49,858	49,560	49,826	55,708
From corporation	21,575	21,073	26,523	31,048	33,013	32,205	31,775	34,830
From households	16,144	15,246	16,688	18,111	16,845	17,355	18,051	20,878
<b>Taxes on production and imports</b>	<b>1,473,579</b>	<b>1,521,872</b>	<b>1,588,125</b>	<b>1,712,869</b>	<b>1,745,260</b>	<b>1,525,844</b>	<b>1,560,622</b>	<b>1,645,928</b>
Taxes on products	1,388,433	1,422,778	1,489,791	1,607,673	1,640,638	1,464,830	1,499,718	1,558,678
Value added type taxes (VAT) <sup>1/</sup>	556,442	557,872	594,433	637,347	643,313	599,416	620,949	718,105
Taxes and duties on imports excluding VAT	185,550	194,093	206,278	212,773	217,757	158,465	167,511	191,099
Import duties	112,322	103,471	103,506	107,067	104,008	90,708	102,067	111,597
Taxes on imports excluding VAT and duties	73,228	90,622	102,772	105,706	113,749	67,757	65,444	79,502
Export taxes	189	83	103	170	202	158	237	63
Taxes on products except VAT, import and export taxes	646,252	670,730	688,977	757,383	779,366	706,791	711,021	649,411
Other taxes on production	85,146	99,094	98,334	105,196	104,622	61,014	60,904	87,250
<b>Total taxes</b>	<b>2,417,620</b>	<b>2,466,917</b>	<b>2,529,078</b>	<b>2,766,113</b>	<b>2,827,821</b>	<b>2,473,120</b>	<b>2,535,886</b>	<b>2,807,849</b>
<b>Subsidies</b>								
<b>Subsidies on products</b>	<b>43,304</b>	<b>44,183</b>	<b>37,497</b>	<b>43,835</b>	<b>35,076</b>	<b>54,872</b>	<b>94,020</b>	<b>182,353</b>
Import subsidies	816	962	1,272	1,742	944	1,766	3,650	9,665
Export subsidies	9,364	8,987	7,912	9,293	8,294	6,646	6,366	8,192
Other subsidies on products	33,124	34,234	28,313	32,800	25,838	46,460	84,004	164,496
<b>Other subsidies on production</b>	<b>26,635</b>	<b>24,147</b>	<b>24,160</b>	<b>24,752</b>	<b>24,651</b>	<b>28,406</b>	<b>29,142</b>	<b>27,492</b>
<b>Total subsidies</b>	<b>69,939</b>	<b>68,330</b>	<b>61,657</b>	<b>68,587</b>	<b>59,727</b>	<b>83,278</b>	<b>123,162</b>	<b>209,845</b>
<b>Total taxes on production and imports less subsidies</b>	<b>1,403,640</b>	<b>1,453,542</b>	<b>1,526,468</b>	<b>1,644,282</b>	<b>1,685,533</b>	<b>1,442,566</b>	<b>1,437,460</b>	<b>1,436,083</b>

Note : <sup>1/</sup> VAT originated from 1992

Table 61 Social contributions and social transfers

	(Millions of Baht)							
	2015	2016	2017	2018	2019	2020r	2021r	2022p
<b>Social contributions</b>	<b>460,843</b>	<b>510,514</b>	<b>542,202</b>	<b>573,014</b>	<b>615,765</b>	<b>590,017</b>	<b>598,072</b>	<b>656,830</b>
Employers' actual social contributions <sup>1/</sup>	77,823	80,297	84,466	87,621	92,019	70,904	60,593	70,658
Employers' imputed social contributions	252,867	294,198	316,394	335,134	365,699	388,673	409,664	451,111
Households' actual social contributions <sup>1/</sup>	90,186	92,613	95,960	102,721	108,326	84,593	80,091	86,509
Households' social contributions supplements <sup>1/</sup>	39,967	43,406	45,382	47,538	49,721	45,847	47,724	48,552
<b>Social benefits other than social transfers in kind</b>	<b>377,027</b>	<b>421,938</b>	<b>459,179</b>	<b>526,108</b>	<b>578,218</b>	<b>652,269</b>	<b>679,918</b>	<b>712,201</b>
Social security benefits in cash <sup>1/</sup>	31,332	36,394	38,769	45,333	51,242	87,141	83,206	72,779
Other social insurance benefits	252,867	294,198	316,394	335,134	365,699	388,673	409,664	451,111
Social assistance benefits in cash	92,828	91,346	104,016	145,641	161,277	176,455	187,048	188,311
<b>Social transfers in kind</b>	<b>1,148,884</b>	<b>1,211,288</b>	<b>1,254,859</b>	<b>1,304,166</b>	<b>1,344,888</b>	<b>1,401,003</b>	<b>1,553,116</b>	<b>1,659,675</b>
Social transfers in kind - non-market production	905,607	951,068	984,792	1,036,005	1,065,756	1,111,745	1,155,923	1,215,200
Social transfers in kind - purchased market production	243,277	260,220	270,067	268,161	279,132	289,258	397,193	444,475
<i>Social security benefits, reimbursements <sup>1/</sup></i>	<i>5,052</i>	<i>5,847</i>	<i>6,329</i>	<i>5,568</i>	<i>7,192</i>	<i>7,796</i>	<i>7,770</i>	<i>8,313</i>
<i>Other social security benefits in kind <sup>1/</sup></i>	<i>37,253</i>	<i>40,888</i>	<i>43,075</i>	<i>45,428</i>	<i>49,907</i>	<i>52,680</i>	<i>83,226</i>	<i>94,170</i>
<i>Social assistance benefits in kind</i>	<i>200,972</i>	<i>213,485</i>	<i>220,663</i>	<i>217,165</i>	<i>222,033</i>	<i>228,782</i>	<i>306,197</i>	<i>341,992</i>

Note : <sup>1/</sup> The government social security plans included in government account comprise 6 funds as below:

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



# ผู้ประสานงาน

## Contact Persons

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

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ตาราง / Tables	ผู้ประสานงาน / Coordinators	e-mail address	ต่อ / Ext. No.
<b>Main Accounts</b>			
Account 1. Production account	Jaruwan Poolsuk	jaruwan@nesdc.go.th	6514
	Mattanee Phumklai	mattanee@nesdc.go.th	6523
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
<b>Gross Domestic Product, Chain Volume Measures</b>			
Table 1 - 2.3	Mattanee Phumklai	mattanee@nesdc.go.th	6523
Change in Inventories	Pirachat Panngam	Pirachat@nesdc.go.th	6529
<b>Gross Domestic Product (Production)</b>			
Table 3, 5.3, 28-29.2	Mattanee Phumklai	mattanee@nesdc.go.th	6523
Table 4	Rattikan Ligkachai	Rattikan@nesdc.go.th	6542
Table 6 - 7.2, 14-15.2, 34-35.2	Mattanee Phumklai	mattanee@nesdc.go.th	6523
Table 8 - 9.2, 20-21.2, 24-25.2, 30-31.2	Nathicha Singnoi	nathicha@nesdc.go.th	6527
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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
<b>Gross Domestic Product (Expenditure)</b>			
<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
<b>Capital formation</b>			
Table 44 - 49.2	Jindarat Shibue	jindarat-s@nesdc.go.th	6509
	Kritchasorn Jarupasin	Kritchasorn@nesdc.go.th	6534
	Supaporn Wareerat	supaporn_c@nesdc.go.th	6510
<b>National Income</b>			
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
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Table 55 - 59	Santi Srisomboon	santi@nesdc.go.th	6526
Table 60	Jaruwan Poolsuk	jaruwan@nesdc.go.th	6514
Table 61	Kanokphit Phuthamma	Kanokphit@nesdc.go.th	6503

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