

Preface

The Office of the National Economic and Social Development Board (NESDB) 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--namely production, expenditure and income, which reflect the overall economic activities of accounting of the country.

The National Income of Thailand 2016 edition, following the International System of National Accounts (SNA), is compiled using the chained volume measures (CVMs) in measuring the real terms. In this 2016 edition, data are revised back to 2012 in accordance with the latest available primary data and latest revision of data sources provided by responsible agencies. This is to ensure the accuracy and the consistency of the entire system of national accounts. Details of revisions are indicated in the revision note on the following pages.

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



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Secretary-General
National Economic and Social Development Board
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Revisions to the National Income of Thailand 2016 Edition

In this publication, the main estimates have been revised back to 2012. The revisions are made based on the most recent data from the primary sources as follows:

1. Revising data

- Agricultural, forestry and fishing sector: revising crops and livestock production figures back from 2012 to 2015 according to the Agricultural Statistics of Thailand 2017 from the Office of Agricultural Economic, Ministry of Agriculture and Co-operatives.
- Fishery sector: revising fishery production figures back from 2012 to 2015 according to the Fisheries Statistics of Thailand 2016 from the Department of Fisheries.
- Manufacturing sector: revising industrial production figures back from 2012 to 2015 according to the Manufacturing Product Index (MPI) from the Office of Industrial Economics, Ministry of Industry and data from relevant sectors.
- Construction sector: revising the data of the construction of the government back from 2014 to 2015.
- Real estate, renting and business services sector; and other community, social and personal services activities sector: revising income for value added tax assessment back from 2014 to 2015.
- Education sector; and human health and social work activities sector: revising the data of education and public health services back from 2012 to 2015 and revising the data according to annual report of the private universities back from 2012 to 2015.
- General government consumption expenditure: revising the estimation method of salary index which previously used salary and the number of officers from the Comptroller General's Department. The new estimation method of salary index called "composite salary index" is weighted average from the four indices covering 1) Salary index; 2) Consumer price index on tuition item; 3) Consumer price index medical care item; and 4) General consumer price index. Correspondingly, four-group weight of compensation of employees comprises (1) salaries, wages and remuneration; 2) expenses on educational support; 3) expenses on health service support; and 4) pensions.
Moreover, this series had added up new three off-budget agencies comprising Srinakharinwirot University; Mahachulalongkornrajavidyalaya University; Silpakorn University.
- Export and import of merchandise and services; and data of primary income and secondary income are revised back to 2012 according to the current accounts of the Bank of Thailand.
- Updating other basic data according to the latest data available from original data sources.

2. Abbreviation

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

Any reproduction of data and materials in this publication must make a proper reference to NESDB as data source.

Executive Summary

The Thai economy in 2016, measured by the Gross Domestic Product (GDP), increased by 3.3%, accelerating from a rise of 3.0% in 2014, mainly contributed to production of goods and service for private final consumption expenditure, exports, and tourist-related industry which consecutively maintained expanding. On production side, non-agricultural production grew in a favorable level whereas agricultural production fell persistently but improved greatly from the previous year as a result of drought mitigation. For expenditure side, private final consumption expenditure rose prominently whereas government final consumption expenditure slowed down from last year. Private investment rebounded and returned to expand while public investment decelerated due to base-effect from a high value of public investment projects in response to disbursement expedition measure in the previous year.

Production increased by 3.3%, accelerating from a rise of 3.0% in the previous year. Non-agricultural production, accounted for 91.5% of total production, grew by 3.8%, compared to a rise of 4.1% previously. Such a high level of production was from manufacturing sector with a growth of 1.6%, attributed to motor vehicles; chemicals and chemical products; computer and components; In addition, tourist-related sectors also maintained expansion in response to a high level number of tourists, covering a rise of 4.1% for transportation and storages; 9.9% for accommodation and food service; 5.4% for wholesale and retail trade; 21.3% for arts, entertainment and recreation. Meanwhile, agricultural production fell by 2.5%, improving from a sharp drop from drought in last year.

Domestic demand rose continuously from last year. Supporting factors were from private sector including both final consumption expenditure and investment. However, public sector slowed down in both consumption and investment. Expansion in public sector contributed to low price level of main product especially low oil price. In addition, commercial bank relax prudent policy for consumer credit expansion. As a result, private consumption expenditure rose by 3.0%. Gross fixed capital formation increased by 2.8%, slowing down from 4.3% previously. Particularly, public investment decelerated with an expansion of 9.5% compared to a 28.4% rise in 2015 due to a high base-effect in which disbursement on investment projects was expedited in last year namely water resources development and management system and urgent phase land transport system. Government consumption expenditure slightly slowed down with an expansion rate of 2.4% compared to 2.5% last year. Such a slowdown was from an item of government purchase of goods and services whereas compensation of government employees slightly accelerated from the previous year. For external sector, exports of goods and services grew favorably by 2.8% while imports of goods and services slightly contracted.

National income in 2016 posted the value of Baht 9,921,830 million, rose by 6.8% accelerating from a 2.5% increase from the previous year. Sources of income were from a return to labor with the value of Baht 4,724,692 million or a 3.9% rise and a return to capital, land and operation with the value of 5,197,138 million increased by 9.6%. In per capita terms, national income per capita in 2016 was Baht 147,088, rising from Baht 138,179 in 2015. Disposable income per capita was Baht 117,583 and consumption expenditure per capita was Baht 107,633. Lastly, per capita personal saving valued at Baht 11,944, accelerating from Baht 10,074 in 2015.

For overall economic stability, recently gross saving kept expanding whereas gross investment trended to be contraction. It was seen in 2015 that gross saving rose by 14.4% whereas investment dropped by 0.1%. As a result, saving-investment gap (equivalent to current account) postulated a surplus with the value of Baht 1,704,145 million, accounting for 11.7% of GDP. Such a surplus was regarded as the third consecutive year which a surplus for 2014 and 2015 was Baht 497,597 million and Baht 1,103,130 million.

GDP implicit price deflator rose by 2.4%, rising from 0.9% in the previous year. Agricultural price index increased by 2.5%, compared to a drop of 1.2% in 2015. Non-agricultural price index grew by 2.3%, accelerating from a 1.1% rise previously. Meanwhile, consumer price index (CPI) rose expanded by 0.2% whereas producer price index (PPI) declined by 1.2% recovering from a drop of 4.1% in last year.

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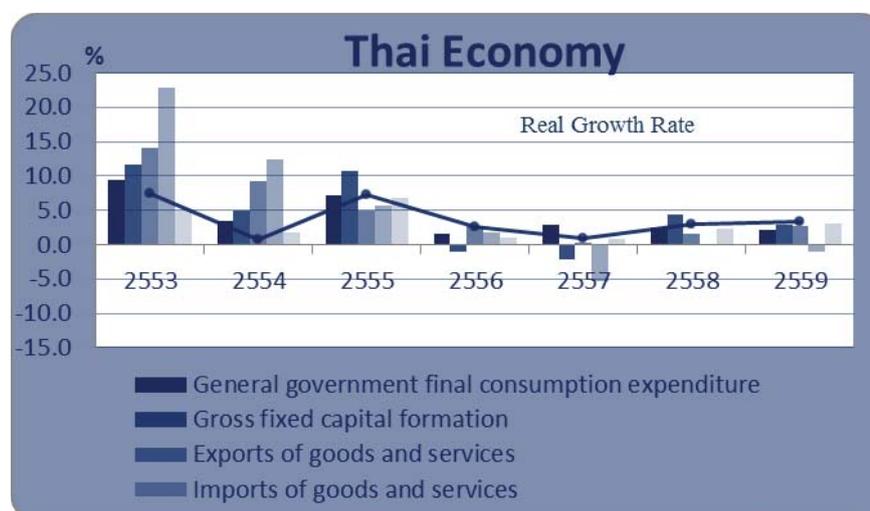
Thai Economy in 2016 National Accounts Perspectives

Overview

GDP in 2016 rose by 3.3% compared to a rise of 3.0% in 2015, driven by private consumption expenditure, exports, and tourist-related industries.

Gross Domestic Product of 2016 increased by 3.3%, compared to a rise of 3.0% in 2015 as a result of a continuous expansion of private final consumption expenditure, exports, and tourist-related sector. Such a rise of private final consumption was partly from high farming income in line with rising price in main agricultural and fishery prices. In addition, low inflation level maintained as a consequence of low fuel price. Meanwhile, public investment and government consumption expenditure decelerated due partly to base-effect from disbursement expenditure for government investment project, namely water resource development and management project and urgent phase highway project. Higher demand led to rising in production especially for non-agricultural sector which maintained high level of an expansion. Favorable expansion sectors covered manufacturing sectors such as motor vehicles, chemical products, computer and components whereas service sectors rose favorably in construction and tourist-related sectors such as accommodation and food service activities, transportation and storage. Meanwhile, contraction of agricultural sector improved relatively compared to a sharp decline in last year.

Gross Domestic Product (GDP) in 2016 at current market prices valued at Baht 14,533,465 million. After deducting Baht 682,354 million of net factor income from the rest of the world, Gross National Product (GNP) registered at Baht 13,851,111 million, with an expansion of 6.2%. Deduction further by net indirect taxes and consumption of fixed capital, National Income (NI) in 2016 valued at Baht 9,921,830 million. The per capita GNP was Baht 205,339 while per capita NI was Baht 147,088 higher than that of Baht 138,179 in 2015 or a 6.4% growth.



Domestic Demand improved from last year, attributed to an expansion of private and government final consumption expenditure, exports, and private investment. Supporting factors were from; 1) higher household income especially farming income which was from rising in main crop and fishery prices; 2) higher household purchasing power due to lowering main product prices as a consequence of maintaining a low level of oil price; 3) rising in household consumer credits which led to higher consumer demand. As a result,

private final consumption expenditure rose by 3.0% compared to a 2.8% expansion in last year. Gross fixed capital formation expanded by 2.8%, decelerating from a rise of 4.3% previously. Public investment grew by 9.5%, decelerating due to a base-effect from a disbursement expedition of major government investment project last year. Government Consumption Expenditure increased by 2.2%, compared to a rise of 2.5% previously, attributed to the growth of 0.7% in compensation of employees, 4.7% in expenditure for goods and services, and 10.0% in purchase by household and enterprises.

External Sector: exports of goods and services at current market prices grew by 5.4%, compared to a 3.0% rise in 2015. Such an expansion was chiefly contributed to a 3.1% rise in merchandise export and 13.1% in service receipts. For import side, imports of goods and services at current market prices contracted by 0.7%, recovering from a drop of 4.9% in last year. Particularly, merchandise imports fell by 2.1% whereas service payments increased by 5.4%. Trade and services balance at current market prices valued a surplus of Baht 2,145,946 million, attributed to Baht 1,583,014 million for trade surplus and Baht 1,289,479 million for service surplus. In addition, net factor income and net current transfers recorded a surplus of Baht 682,354 million and Baht 240,553 million respectively. Ultimately, a current account registered a surplus at Baht 1,704,145 million in 2016.

National Income (NI) or income from factors of production in 2016 recorded the value of Baht 9,921,830 million, expanded by 6.8% compared to a 2.5% growth in the previous year. Expansion was found from both compensation of employees (accounted for 47.6% of NI) and returns on capital, land, and firms (a 52.4% of NI) with a rise of 3.9% and 9.6% respectively. Meanwhile, Net property income dropped by 6.9% while operating income grew by 12.6%.

Domestic Saving in 2016 registered the value of Baht 4,767,765 million, rising with the rate of 14.4% compared to a rise of 13.8% in 2015. Overall net savings valued at Baht 1,889,468 million, growing with the rate of 21.2% in contrast to a fall of 7.7% previously. An expansion contributed to net private saving with an increase of 23.1% while net public saving decreased by 18.8%.

Overall Economic Stability: recently, saving kept expanding and maintained at the high level whereas investment tentatively kept contracting. Particularly in 2016, total saving rose by 14.4% while total investment dropped by 0.1%. As a result, saving-investment gap (equivalent to current account surplus) registered a surplus of Baht 1,704,145 million and accounted for 11.7% of gross domestic product. Current account was considered to be a surplus for three consecutive years which was Baht 497,595 million and Baht 1,103,130 million surplus for 2014 and 2015 respectively.

GDP Implicit Price Deflator increased by 2.4%, accelerating from a 0.9% rise in the last year. Agricultural price index grew by 2.5%, compared to a 1.2% increase in 2015. Meanwhile, non-agricultural price index rose by 2.3%, growing by 1.1% previously. Consumer prices index (CPI) increased by 0.2% while producer prices index (PPI) contracted by 1.2%.

Gross Domestic Product

GDP in 2016 grew by 3.3%, accelerating from a 3.0% growth previously.

Gross domestic product in 2016 grew by 3.3% accelerated from a growth of 3.0% in 2015. Such an expansion was from non-agricultural sector which grew by 3.8 % due to a high private consumption, exports and tourist-related sector. Manufacturing sector increased by 2.2% from a growth of 1.6% in the previous year. Tourist-related sector such as accommodation and food service, transportation, and other business services still expanded. In contrast, agricultural sector decreased by 2.5% but recovery from a sharp drop in last year due mainly to a decline of crops and livestock production while fishery rose.

Agricultural production dropped by 2.5% improving from a decline of 6.3% in the previous year as a result of a slowdown of major crops such as paddy, sugarcane, and palm oil. Livestock declined by 0.9% attributed to cattle and buffalo. Moreover, swine and poultry such as chicken and hen's egg decreased. Meanwhile, fishery production accelerated, particularly on marine fishery.

Non-agricultural production grew by 3.8% from a growth of 4.1% in the previous year. Manufacturing sector rose by 2.2% continually rising from last year. Expansion was sourced by a high production of main manufacturing sector such as motor vehicles, chemical and chemical product, and computer and computer's part. In addition, services and tourist-related sector such as construction, accommodation and food services grew by 5.4% and 9.9%, respectively.

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

Economic activities	Real GDP growth			Structure at current prices (%)		
	2014	2015	2016	2014	2015	2016
Agriculture	-0.3	-6.3	-2.5	10.1	9.0	8.5
Agriculture, forestry and fishing	-0.3	-6.3	-2.5	10.1	9.0	8.5
Non-agriculture	1.1	4.1	3.8	89.9	91.0	91.5
Mining and quarrying	-1.6	2.4	1.0	3.7	3.1	2.7
Manufacturing	0.0	1.6	2.2	27.6	27.3	27.2
Electricity, gas, steam and air conditioning supply	3.1	4.8	2.9	2.5	2.5	2.6
Water supply; sewerage, waste management and remediation activities	2.7	9.0	15.6	0.4	0.4	0.4
Construction	-2.4	17.1	8.6	2.5	2.8	2.8
Wholesale and retail trade; repair of motor vehicles and motorcycles	-0.8	4.8	5.4	13.7	14.3	14.9
Transportation and storage	3.1	4.1	4.1	5.4	5.7	5.7
Accommodation and food service activities	2.5	15.0	9.9	3.8	4.4	4.8
Information and communication	5.3	9.7	3.3	2.3	2.4	2.3
Financial and insurance activities	7.5	8.4	6.5	7.3	7.6	7.7
Real estate activities	2.2	1.5	7.0	2.5	2.4	2.4
Professional, scientific and technical activities	-1.1	-1.5	-1.0	2.0	1.9	1.8
Administrative and support service activities	-2.8	3.6	2.4	1.7	1.7	1.7
Public administration and defence; compulsory social security	1.3	0.6	0.4	6.1	6.1	6.0
Education	2.2	-0.2	1.2	4.3	4.3	4.2
Human health and social work activities	5.4	3.1	2.6	2.0	2.1	2.1
Arts, entertainment and recreation	0.3	9.2	21.3	0.5	0.5	0.6
Other service activities	2.2	3.1	3.9	1.4	1.4	1.3
Activities of households as employers	-4.4	3.7	-0.1	0.2	0.2	0.2
Gross domestic product, (GDP)	1.0	3.0	3.3	100.0	100.0	100.0

Agricultural sector

Agricultural declined by 2.5% due to pending drought and uncertain climate. Agricultural prices also grew.

Overall agricultural production decreased by 2.5% improving from a decline of 6.3% in 2015, resulting from major agriculture production such as crops, perennials, and livestock with a decline of 4.1%, 3.5%, and 0.9, respectively. However, agricultural service, forestry, and fishery expanded 2.7%, 7.7%, and 5.8%, respectively. Meanwhile, price of agricultural products rose by 2.5% compared to a decline by 1.2% growth in the previous year.

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

(%)

Sector	2014	2015	2016
Agriculture, forestry and fishery growth	-0.3	-6.3	-2.5
<i>Non-perennial crops</i>	-3.4	-6.2	-4.1
<i>Perennial crops</i>	5.5	-9.5	-3.5
<i>Livestock</i>	10.7	5.3	-0.9
<i>Agricultural services</i>	-5.8	-3.2	2.7
<i>Forestry</i>	7.9	1.8	7.7
<i>Fishery</i>	-13.3	-10.5	5.8
Implicit price deflator growth	-8.5	-1.2	2.5

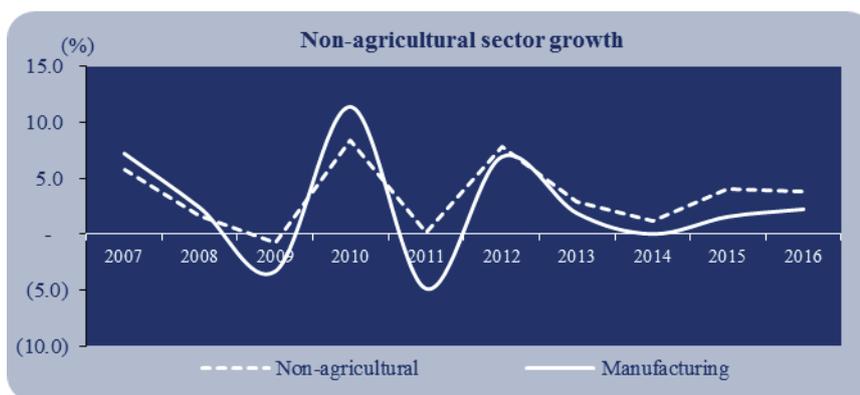
Agriculture, forestry and fishery

Total production decreased by 2.5% from a fall of 6.3% in the previous year. Major production activities were as follows:

- **Annual crops** fell by 4.1% due to a drought pending along with an uncertain climate. Major crops production, namely paddy, tobacco, sugarcane, and cereal declined by 3.4%, 18.0%, 17.6%, and 3.6% respectively.
- **Perennial crops** declined by 3.5% as a consequence of uncertain climate. Production reduction was found from main crops namely rubber, palm oil, coconut, and other fruits fell by 3.3%, 7.6%, 5.5%, and 3.1% respectively.
- **Livestock** dropped by 0.9% due to production of cattle, and dairy product declined by 3.9% and 0.1% respectively. Meanwhile, production of swine, chicken, duck and hen's egg increased by 7.2%, 4.7%, 7.9%, and 3.7% respectively.
- **Agricultural services** increased 2.7% attributed mainly to an expansion in planting and harvest services which grew in response to planting area.
- **Forestry** increased by 7.7%, continually grew from 1.8% in the previous year as a result of an expansion of forest products and reforestation.
- **Fishery** increased by 5.8% from a fall 10.5% in the previous year. Production of marine fishery grew 7.2% due to higher external demand and disappearance of Early Mortality Syndrome (EMS) in shrimps. Meanwhile, freshwater fishery maintained steady to the previous year.
- **Implicit prices of agricultural products** grew by 2.5% compared to a fall of 1.2% in the previous year. Higher domestic and external demand whereas agricultural products fell. As a result, the price of agricultural products increased.

Non-agricultural expanded by 3.8% from a 4.1% rise in last year.

Non-agricultural sector



Mining and quarrying

Mining and quarrying expanded by 1.0% from a 2.4% growth in the previous year. Such an expansion was from production of crude oil and natural gas with a rise of by 0.3% compared to a 2.7% expansion in the previous year. Crude oil production rose by 6.4% compared to a 10.2% growth formerly, found from in main oil fields namely Lanta, Surin, Manora, Songkhla and Sirikit. Natural gas and liquefied natural gas decreased by 1.5% compared to a decline of 0.3% previously, found in main fields namely Bongkot, Tantawan, Benchamas, Pailin and Arthit. In addition, other minerals namely stone, sand and dust rose by 0.7% and 12.7% previously. Chemical and fertilizer minerals expanded by 31.2%, compared to a 42.6% growth in the previous year.

Manufacturing

Manufacturing rose by 2.2% as a result of exports on manufacturing goods namely chemical and chemical products, rubber and plastic products, motor vehicle and other vehicle. In addition, domestic demand expanded.

Industries with a favorable expansion

- **Food products** expanded by 1.8% from a contraction of 1.0% previously attributed to rising in manufacturing production of preserved foods (fishery frozen) along with raw material products.
- **Paper and paper products** rose by 1.8% due to an expansion on pulp, paper, and paper board as consequence of demand from downstream industries rose.
- **Petroleum refinery** increased by 0.9% in response to domestic demand.
- **Chemical and chemical products** expanded by 3.1% due to an expansion of petrochemical demand from downstream industries.
- **Rubber and plastic products** rose by 2.4% due to higher demand in downstream industries such as motor vehicle. Moreover, external demand on rubber maintained expanding.
- **Computer, electronic and optical products** increased by 1.2% due to external demand on computer and part, electronic and intergraded circuits.
- **Electrical machinery and apparatus** rose by 6.3% from an expansion of household appliance both from domestic demand and exports.
- **Fabricated metal products** expanded by 5.7% due to higher demand on downstream industries namely processing and preserved of meat, canned fish, and processing and preserved of fruit and vegetables.

- **Motor vehicles** continually rose by 8.0% in response to domestic and external demand which induced rising in spare part production.
- **Other transport equipment** rose by 7.2% attributed mainly to domestic and external demand on motorcycles. In addition, manufacturing of ship still rose.
- **Other non-metallic products** expanded by 0.2% as a result of an increase in concrete products. Meanwhile, cement slightly declined due partly to changing construction technology.

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

(%)

	Growth rate (real term)			Structure at current prices		
	2014	2015	2016	2014	2015	2016
Food products	2.8	-1.0	1.8	14.4	13.9	14.9
Beverages	1.8	4.0	-0.3	7.5	7.7	7.3
Tobacco products	-3.3	-2.8	-8.5	1.6	1.5	1.3
Textiles	-0.8	-3.7	-3.1	3.2	3.0	2.7
Wearing apparel	3.6	-1.2	-6.7	2.2	2.1	2.2
Leather and related products	8.2	-5.7	3.1	1.2	1.1	1.1
Wood and products of wood and cork	9.6	0.7	8.5	1.2	1.2	1.2
Paper and paper products	3.3	0.3	1.8	1.4	1.4	1.4
Printing and reproduction of recorded media	-2.3	-5.0	-3.2	0.3	0.3	0.3
Coke and refined petroleum products	3.1	7.8	0.9	7.4	8.1	10.0
Chemicals and chemical products	1.6	4.2	3.1	8.1	8.6	8.0
Basic pharmaceutical products and pharmaceutical preparations	5.9	5.0	8.9	0.9	0.9	1.0
Rubber and plastics products	1.7	6.4	2.4	6.7	7.0	7.1
Non-metallic mineral products	-1.3	-3.2	0.2	4.1	4.0	3.8
Basic metals	4.5	-1.3	8.0	1.9	1.6	1.6
Fabricated metal products, except machinery and equipment	5.2	4.4	5.7	2.9	2.9	2.9
Computer, electronic and optical products	5.2	-2.9	1.2	10.6	9.8	8.4
Electrical equipment	1.8	-2.3	6.3	5.1	4.9	5.1
Machinery and equipment not elsewhere classified	-2.0	4.1	1.5	4.1	4.3	4.1
Motor vehicles, trailers and semi-trailers	-18.1	4.8	8.0	7.9	8.1	8.4
Other transport equipment	-8.7	3.5	7.2	2.2	2.5	2.5
Furniture	-1.9	3.6	-0.9	0.9	0.9	0.8
Other manufacturing	0.8	2.3	0.4	4.0	3.9	3.8
Repair and installation of machinery and equipment	4.8	9.2	6.3	0.0	0.0	0.0
Total value added	0.0	1.6	2.2	100.0	100.0	100.0

Industries with a contraction

- Beverage dropped by 0.3% due to lower production on spirit and non-alcohol beverage. However, production of beer still rose.
- Textile continually contracted by 3.1% in response to low domestic demand. Some raw materials for downstream industries were imported in stead of using domestic raw materials. In addition, export of textile still declined together.
- Wearing apparel continually fell by 6.7%, affected from that production plants moved to neighboring countries. As a result, export decreased.

Electricity, gas and air conditioning supply

Electricity, gas and air conditioning supply rose by 2.9% compared to a 4.8% growth in the previous year. Electricity power generation grew 2.1% slightly declining from last year due to a slowdown of private power generation. Particularly, sales of electricity in medium, small, and special enterprises slowed down. Meanwhile, larges enterprises and residential maintained expanding.

Electricity and gas supply growth (real term)

(%)

Items	2014	2015	2016
Electricity	3.0	4.2	2.1
Gas separate plant	4.6	12.2	13.5
Total	3.1	4.8	2.9

Electricity consumption growth and consumption structure

(%)

Items	2014	2015	2016
Consumption growth	2.6	3.6	4.6
Residential	3.5	5.9	6.4
Small enterprises	2.4	5.1	4.8
Medium enterprises	2.4	3.7	2.5
Large enterprises	1.9	1.5	4.7
Special enterprises	1.1	6.3	5.4
Others	9.7	6.4	-2.1
Consumption structure	100.0	100.0	100.0
Residential	23.8	24.3	24.7
Small enterprises	11.5	11.6	11.7
Medium enterprises	17.0	17.0	16.7
Large enterprises	42.2	41.3	41.4
Special enterprises	3.4	3.5	3.6
Others	2.1	2.2	2.0

Water supply; sewerage, waste management and remediation activities

Water supply; sewerage, waste management and remediation rose by 15.6% from a 9.0% growth from the previous year. Water supply grew by 15.5% compared to a 7.3% rise in last year. Meanwhile, recycle of goods and sewerage activities continually rose from the previous year.

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

(%)

Items	2014	2015	2016
Water supply	-0.5	7.3	15.5
Waste collection	13.2	2.4	11.5
Materials recovery	27.2	37.3	22.3
Total	2.7	9.0	15.6

Construction

Construction rose by 8.6 %, slowing down from 17.1% in 2015, described by a 13.9% decrease from base-effect of government construction spending in last year which was disbursed from the water resources development and management project. In addition, there was no new state enterprise construction project in 2016 but only ongoing projects were implemented. Moreover, private construction expanded 1.1%, accelerating from 0.3% in 2015, contributed to residential building construction growing in response to higher demand for living, particularly in areas along the sky train route.

Wholesale and retail trade; repair of motor vehicles and motorcycles

Trading and repairing increased by 5.4% due mainly to a rise in sales of motor vehicles and motorcycles in response to domestic and export demands. Wholesale and retail trade continually increased from the previous year in line with higher domestic and tourism demands, especially from tax-deductible government stimulus packages at the end of 2016. Meanwhile, repair of motor vehicles and motorcycles rose in response to regular maintenance period.

Transportation and storage

Transportation and storage sector increased by 4.1%, slowing down from the previous year. Such a slowdown was attributed to air transports with a rise of 10.4% decelerating from a 12.3% expansion in the previous year in response to a slowdown on freight and a number of passengers from tourist-related sector. Moreover, water transport rose by 7.6 % compared to a 6.3% growth in the previous year. Land transport expanded by 0.2%, compared to a decrease of 3.8% previously, mainly attributed to an increase of passengers and freight transport. Post activities by 4.7% %, compared to a decrease of 0.3% in the previous year which was consistent to revenue of entrepreneurs.

Accommodation and food service activities

Accommodation and food service activities grew by 9.9% slightly slowdown from a 15.0% growth in the previous year. Due to an accommodation service which rose by 9.1% from a 21.5% in last year. This was contributed mainly by an 8.8% increase in number of tourists, lower than a 20.6% growth in the previous year. Number of tourists from East Asia decelerated while number of tourists from Europe, the Americas, Middle East and Africa increased favorably. Food service activities rose by 10.6%, accelerating from 2015 as a result of a project “12 Hidden Cities” and project “12 Hidden Cities Plus”. Such a project promoted Thai tourists spreading to travel attractions. The government also imposed tax-deductible stimulus measure for domestic tourism in December, 2016. As a result, Thai tourists increased.

Information and communication

Information and communication sector grew by 3.3%, attributed to communication services with an increase of 2.9% decelerating from a 9.3% growth in the previous year. In addition, computer programming, consultancy and related activities expanded by 4.9% decelerating from a 12.2% growth in last year, mainly sourced from information related activities. Meanwhile, sound recording and music publishing activities and motion picture, and video and television program production fell by 8.1% and 0.5%, respectively in response to a poor turnover of media channels.

Financial and insurance activities

Financial and insurance sector expanded by 6.5%, compared to an 8.4% growth in the previous year. This resulted from a slowdown of operating income of commercial banks and other depository institutions. Such a slowdown was from both credits and deposits. In addition, income from fees and other services also slowed down from the previous year in line with the gradual economic recovery and prudent credit issuance for financial institutions both in business and personal consumption credits. Meanwhile, non-life insurance except insurances also expanded.

Real estate activities

Real estate activities sector expanded by 7.0% compared to a 1.5% growth in last year, driven by a 7% expansion of in real estate activities with own or leased property accelerating from a 1.6% rise in the previous year. Real estate activities on a fee or contract basis grew by 6.9% from a 0.5% rise previously. The main driven was from a large real estate transactions in response to a transfer fees reduction measure from 2.0% to 0.01% in the first 4 months of 2016.

Professional, scientific and technical activities

This sector decreased by 1.0% from a fall of 1.5% previously. Management consultancy activities, research and experimental development on natural sciences and engineering activities, advertising activities, and photographic activities declined. Meanwhile, architectural and engineering activities, technical testing and analysis activities, market research and public opinion polling activities slowed down. However, legal activities; accounting, bookkeeping and auditing activities; and veterinary activities kept rising.

Administrative and support service activities

This sector grew by 2.4%, lower than a 3.6% rise in the previous year, due mainly to a slowdown of construction and civil engineering activities, and office administrative, office support and other business support activities. In addition, travel agency and tour operator activities slowed down in response to a slowdown of inbound tourist numbers. Renting a personal motor vehicle activities, activities of employment placement agencies, and security and investigation activities also decelerated.

Education

Education sector grew by 1.2% compared to a 0.2% fall in the previous year. Public education accelerated by 1.1%, compared to a 0.4% fall in last year. Private education grew by 2.2% compared to a 1.7% growth previously in response to an expansion of number of students in informal education, vocational education; private universities; and special education.

Human health and social work activities

Human health and social work sector grew by 2.6%, attributed to an expansion of 2.0% in public health services, slightly slowing down from a 3.7% growth in the previous year. Private health services increased by 3.6%, compared to a 2.1% growth in last year. Such an expansion in private sector was seen in many types of services including other human health activities, NPISHs, and clinical activities. Meanwhile private hospitals declined.

Art, entertainment and recreation

Art, entertainment and recreation sector rose by 21.3%, compared to a 9.2% rise in the previous year. Sales of lottery tickets expanded in response to a new policy allowing lottery reservation in advance. Private museum activities, botanical activities, and sport activities slowed down. Meanwhile, creative, arts and entertainment activities; and other recreation activities declined.

Other service activities

Other service sector rose by 3.9% in comparison to a 3.1% growth in the previous year. Repair of computers and communication equipment, and other personal service grew continually. Meanwhile, activities of membership organizations slowed down.

- **Activities of membership organizations** increased by 1.2%, slightly slowing down from a 3.3% growth in the previous year owing to a slow-down of religious organizations activities, and activities of business employers' membership organization.
- **Repair of computers and communication equipment** rose by 5.5%, attributed to an increase in repair of computers and communication equipment, and repair of household goods.
- **Other personal service activities** grew by 3.2%, compared to a 2.3% rise in the previous year due to an expansion of hairdressing and other beauty treatment, funeral activities, and other personal service activities.

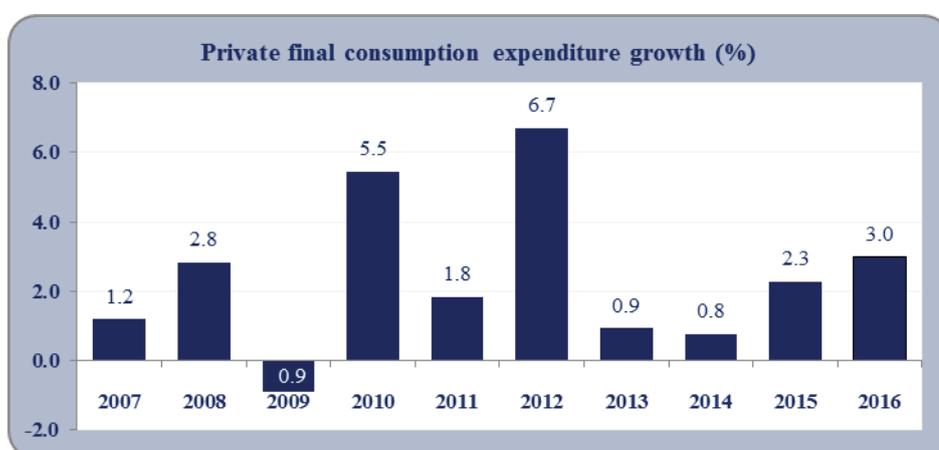
Expenditure on Gross Domestic Product

Private final consumption expenditure in 2016 expanded by 3.0%

Composition of private final consumption expenditure

Private final consumption expenditure in 2016 rose by 3.0%, accelerating from a growth of 2.3% in 2015

The main contribution factors were from an expansion of farm income from which major crop price increased along with fishery product price. In addition, non-agriculture income continued to expand owing to a low rate of inflation as a consequence of maintaining a low oil price. Meanwhile, commercial banks relaxed personal loan credit which induced purchasing power. Particularly, spending on durable goods items increased from the previous year and net services continued to grow. Besides, semi-durable goods and non-durable goods remained expanding.



Private final consumption expenditure in the domestic market excluding non-residents expanded by 2.4%, higher than an increase of 2.0% in 2015.

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

(%)

Item	Growth rate (real term)			Structure at current prices		
	2014	2015	2016	2014	2015	2016
PCE in domestic market	0.0	5.0	4.1	113.2	116.6	117.8
<i>less: expenditure of non-residents in the country</i>	-2.7	23.1	12.2	16.3	20.0	21.8
PCE excluding expenditure of non-residents	0.5	2.0	2.4	96.9	96.6	96.0
<i>plus: expenditure of residents abroad</i>	11.9	12.6	20.6	3.1	3.4	4.0
PCE	0.8	2.3	3.0	100.0	100.0	100.0

Private final consumption expenditure in the domestic market - including expenditure of non-residents in the country and excluding expenditure of residents abroad - expanded by 4.1% slowing down from a rise of 5.0% in the previous year. An expansion contribution was from a 4.1% increase of household final consumption expenditure and a 1.5% rise of non-profit institutions serving households final consumption expenditure.

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

Food and non-alcoholic beverages grew by 2.1 % decelerating from a rise of 2.3% in 2015. Food items expanded by 2.4%, slightly slowing down from rise of 2.5% in the previous year. The contribution factors were seen in bread and cereals, vegetables, milk, cheese and eggs and meat. Nonetheless, consumption of non-alcoholic beverage slowed down by 0.3%, compared to a rise of 0.9% in 2015. In particular, carbonate water and energy water decreased in response to a reduction of its sale.

Alcoholic beverages and tobacco declined by 3.2%, accelerating from a rise of 1.6% in the previous year. Alcoholic beverages shrank 3.5%, from a rise of 1.9% in 2015. Such a reduction was a result of a decreasing in consumption of liquor, beer, and wine. Furthermore, tobacco consumption fell by 2.5%, compared to a rise of 0.9% in the previous year, in response to a lower sale volumes of cigarette of Thailand Tobacco Monopoly.

Clothing and footwear increased by 3.3% from a rise of 1.8% in the previous year, contributed to a rising consumption in both clothing and footwear. Spending on clothing grew by 3.0%, better than a rise of 1.3 % in 2015. In addition, footwear spending expanded by 6.2%

Housing, water, electricity, gas and other fuels expanded by 4.3% compared to an increase of 4.8% in the previous year, resulting from a rise in electricity consumption and expenses on gases and fuels with an expansion of 4.7% from a rise of 6.2% slowing down from 2015. Moreover, household water supply consumption, rental for housing expanded by 4.1%, maintaining a high expansion as in the previous year.

Furnishing, household equipment and routine maintenance of the house grew by 0.2%, slowing down by a rise of 3.2% in 2015, attributed to spending of furniture and furnishings, carpets and other floor covering with a decline of 1.1% from a rise of 3.4% in the previous year. Besides, households equipment and routine maintenance of the house rose by 0.3% from an expansion of 3.2% in 2015.

Health increased by 4.7%, decelerating from a rise of 3.2% in 2015, comprising an increase in medical services which rose by 9.2% from a rise of 5.5% in the previous year. Additionally, an expenditure of out-patient services continually expanded by 2.6% from a rise of 2.2% in the previous year, Moreover, spending on hospital service still increased by 1.1%.

Transport grew by 4.3% decelerating from a rise of 2.7% in 2015, contributed mainly to a recovery of vehicle purchases from a contraction of 9.3% in 2015 to a rise of 1.5% in 2016 in response to an improvement of passenger cars sale. Meanwhile ,personal transportation expanded by 6.1% slowing down from a rise of 9.9% in the previous year whereas public transportation remained expanding with the rate of 4.5% owing partly to an increase in foreign tourists numbers. Such supporting factors led to a downward trend of transport consumption.

Communication expanded by 2.4%, decelerating from a 6.2% growth previously. Telephone services slowed down by 2.6% from a 6.5% rise in the previous year, consistent with a decrease of revenue of service providers. Furthermore, expenses on postal services shrank by 1.8%, leading to a downward trend of communication consumption.

Recreation and culture accelerated by 15.6%, accelerating from a rise of 2.3% in the previous year due to a sharp increase of recreational and cultural services, furthermore computer expenditure consumption which rose by 7.8% from a rise of 3.8% in the previous year. Besides, musical instruments accelerated by 6.5% from drop of 2.3% in 2015 which led to a high growth of recreation and culture.

Education increased by 2.1% slowing down from a rise of 4.3% in the previous year, consistent with a declined number of students especially in the primary and secondary schools.

Restaurants and hotels expanded by 6.8% in comparison to a sharp increase of 12.4% in 2015. Such a deceleration was a slowdown from both restaurant services and hotel services in which restaurant expanded by 4.3% slowing down from a rise of 10.2% in the previous year. Additionally, hotel services grew by 10.6% in comparison to a rise of 16.1% in 2015 mainly due to a slowdown number of foreign tourists. Moreover, improvement of purchasing power from government stimulus measures led to an expansion of restaurants and hotels.

Miscellaneous goods and services grew by 3.4% slowing down from an increase of 9.7% in the previous year. Personal effects spending decelerated by 3.5% from a rise of 23.0% in 2015. Moreover, personal services slowed down by 2.6% in comparison to an increase of 9.7% in the previous year. Financial services and other services grew by 3.9% and 2.8% compared to an increase of 5.2% and 5.6% in the previous year, respectively.

Non-profit institutions serving households consumption expenditure increased by 1.5% improving from a decrease of 0.2% in the previous year. Education, health, and social protection rose by 0.4% from a zero growth in 2015. Moreover other services increased by 2.7 from a drop of 0.4% in the previous year.

PCE by durability of 4 factors

Private consumption expenditure classified by durability 4 categories

Durable goods grew by 1.0% increasing from contraction of 2.0%, Purchase of vehicles increased by 1.5%, compared to a contraction of 9.3% in the previous year. Spending on health consumption equipment rose by 1.8% from a decline of 1.7% in 2015. Meanwhile, other durable goods; recreation and culture slowed down.

Semi-durable goods increased by 2.0% slowing down from a rise of 4.3% in the previous year. Slowdown was found from major items. Furnishings, households equipment and routine maintenance of the house grew by 1.1% from a rise of 3.5%. Repair and maintenance of vehicles dropped by 2.3% decreasing from a rise of 9.0%. Besides, semi-durable goods of recreation and culture; newspapers, books and stationery shank to 11.8% considerably fell from a rise of 1.3% in 2015.

Non-durable goods expanded by 2.6% slowing down from an increase of 3.7% in the previous year due partly to a slowdown in consumption of food and beverage which expanded by 2.1% decelerating from 2.3% previously. For operation of personal transport equipment, fuels consumption expanded by 6.4% decelerating from a rise of 10.1% in 2015. Furthermore, other services n.e.c. in miscellaneous goods and services also slowed downs.

Services grew by 4.2% accelerating from a rise of 1.0% in the previous year. Main supporting factors of expansion were from rentals for housing with an increase of 4.3% from a rise of 4.1% in 2015. Recreation and culture services recorded a sharp increase of 26.2% from a rise of 11.0% in the previous year. Furthermore, other services; transport service, health services remained expanding with the rate of 4.8% and 1.4% from a rise of 5.4% and 1.6%, respectively. Nevertheless, domestic services slowed down, especially expenditure of non-residents in the country which slowed down in response to a number of foreign tourists. Meanwhile, expenditure of residents abroad grew by 20.6%. As a result, net services consumption for Thai residents increased in 2016.

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

	Growth rate (%)			Structure (%)		
	2014	2015	2016	2014	2015	2016
By purpose (COICOP)						
<i>Food and non-alcoholic beverages</i>	0.9	2.3	2.1	27.8	28.2	28.3
<i>Alcoholic beverages, tobacco and narcotics</i>	-2.1	1.6	-3.2	3.8	3.9	3.9
<i>Clothing and footwear</i>	-2.1	1.8	3.3	4.8	5.0	5.1
<i>Housing, water, electricity, gas and other fuels</i>	3.6	4.8	4.3	9.9	10.3	10.2
<i>Furnishings, household equipment and routine maintenance of the house</i>	1.9	3.2	0.2	4.6	4.7	4.6
<i>Health</i>	2.9	3.2	4.7	5.0	5.1	5.2
<i>Transport</i>	-11.3	2.7	4.3	16.3	15.2	14.8
<i>Communications</i>	10.7	6.2	2.4	2.3	2.3	2.3
<i>Recreation and culture</i>	-2.2	2.3	15.6	0.0	0.0	0.0
<i>Education</i>	0.1	4.3	2.1	1.4	1.4	1.5
<i>Restaurants and hotels</i>	2.2	12.4	6.8	16.8	18.9	19.7
<i>Miscellaneous goods and services</i>	7.0	9.7	3.4	12.8	13.8	14.1
<i>Individual consumption expenditure of Non-profit institutions serving households (NPISHs)</i>	7.2	-0.2	1.5	2.1	2.1	2.0
<i>plus: Expenditure of residents abroad</i>	11.9	12.6	20.6	3.1	3.4	4.0
<i>less: Expenditure of non-residents in the country</i>	-2.7	23.1	12.2	16.3	20.0	21.8
Private consumption expenditure	0.8	2.3	3.0	100.0	100.0	100.0
By durable appearance						
<i>Durable goods</i>	-19.5	-2.0	1.0	9.1	8.7	8.7
<i>Semi-durable goods</i>	1.9	4.3	2.0	8.9	9.3	9.3
<i>Non-durable goods</i>	1.4	3.7	2.6	46.3	46.1	45.8
<i>Services</i>	6.5	1.0	4.2	35.8	35.8	36.1

Composition of general government final consumption expenditure

By type of expenditure, total general government final consumption at current market price registered at the value of Baht 2,461,539 million with an increase of 4.6%. Government compensation of employees valued at Baht 1,350,361 million, increased by 4.5%, due partially to a rise in other personnel expenses along with pension with an increase of 8.6% and 20.3% respectively. Meanwhile, purchases from enterprises and aboard with the value of Baht 708,961 million rose by 4.2% partially in accordance with government measures to improve living standard of low-income earners especially measures on improving well-being at a sub-district (Tambon) level along with an acceleration in services other than personnel and supplies. Consumption of fixed capital registered at the value of Baht 272,413 million a 4.4% increase. Social transfers in kind – purchased market production posted the value of Baht 265,008 million or increased by 8.8%, improving from a 0.3% contraction in the previous year.

By function of the government, total general government final consumption at current market with the value of Baht 2,461,539 million composed of health service with a 16.6% share of total general government final consumption expenditure. The rest of government service by function comprised 14.6% share for general public services, 12.2% share for economic affairs, 10.5% share for defence, 9.0% share for public order and safety, 3.0% share for housing and community amenities, 4.5% share for the remaining of instance Recreation, culture and religion, Environmental, and Social protection.

General government final consumption expenditure in real term grew by 2.2%, attributed to a 0.7% increase for compensation of employees, 4.7% for purchases from enterprises and aboard, 1.7% for consumption of fixed capital. Besides, social transfers in kind – purchased market production rose by 8.0% and purchase by households and enterprises increased by 10.0%.

Gross capital formation

Gross capital formation or investment at current market prices recorded the value of Baht 3,063,620 million, consisting of gross fixed capital formation and change in inventories with the value of Baht 3,484,345 million and Baht 420,725 million, respectively.

Gross fixed capital formation in real terms expanded by 2.8%, slowing down from 4.3% in 2015 as a result of private investment which grew by 0.5%, improving from a contraction of 2.1% in 2015. Similarly, public sector investment expanded by 9.5%, slowing down from 28.4% in 2015.

Investment (by type of institutions)

	Value at current market prices (Millions of Baht)			Growth rate (real term) (%)		
	2014	2015	2016	2014	2015	2016
Construction	1,038,062	1,159,732	1,223,200	-2.0	15.7	8.0
<i>Private</i>	543,891	529,357	524,010	-3.3	0.3	1.1
<i>Public</i>	494,170	630,375	699,190	-0.6	32.6	13.9
Equipment	2,224,717	2,210,209	2,261,145	-2.3	-1.0	0.1
<i>Private</i>	2,028,293	1,975,678	2,031,405	-0.3	-2.8	0.3
<i>Public</i>	196,424	234,531	229,740	-18.8	17.7	-2.2
Investment	3,262,778	3,369,941	3,484,345	-2.2	4.3	2.8
<i>Private</i>	2,572,184	2,505,035	2,555,415	-0.9	-2.1	0.5
<i>Public</i>	690,594	864,906	928,930	-6.6	28.4	9.5

Private Investment

Private investment at current market prices registered the value of Baht 2,555,415 million, consisting of Baht 524,010 million of private construction and Baht 2,031,405 million of private machinery and equipment. Private investment in real terms remained contracting by 0.5%, recovering from a fall of 2.1% in 2015.

Private Investment

	Value at current market prices (Millions of Baht)			Growth rate (real term) (%)		
	2014	2015	2016	2014	2015	2016
Construction	543,891	529,357	524,010	-3.3	0.3	1.1
<i>Residential</i>	306,604	295,710	293,168	-1.5	-0.8	2.3
<i>Non-residential</i>	161,304	158,754	147,773	-8.3	1.4	-4.1
<i>Others</i>	58,478	57,532	65,225	2.5	2.7	8.0
<i>Cost of ownership transfer</i>	17,505	17,361	17,844	-4.6	1.5	5.4
Machinery and equipment	2,028,293	1,975,678	2,031,405	-0.3	-2.8	0.3
Private Investment	2,572,184	2,505,035	2,555,415	-0.9	-2.1	0.5

Private construction at current market prices recorded the value of Baht 524,010 million, consisting of residential, non-residential, and other constructions with the value of Baht 293,168 million, Baht 147,773 million, and Baht 65,225 million, respectively. Private construction in real terms increased by 1.1%, improving from an expansion of 0.3% in 2015, contributed to an expansion of residential building construction as a result of higher demand for condominium particularly in areas along the sky train route.

Private investment on equipment and machineries at current prices posted the value of Baht 2,031,405 million which rose by 0.3% in real value, improving from a 2.8% contraction in 2015. Such an expansion was attributed to an increase in imported capital goods of office machinery. Moreover vehicles and transport equipment also expanded due to an increase in truck and buses.

Public investment

Public investment at current market prices posted at the value of Baht 928,930 million, comprising public construction and public machinery and equipment with the value of Baht 699,190 million and Baht 229,740 million, consecutively. Public investments in real terms expanded by 9.5%, decelerating from a sharp rise of 28.4% in 2015.

Public investment

	Value at current market prices (Millions of Baht)			Growth rate (real term) (%)		
	2014	2015	2016	2014	2015	2016
Construction	494,170	630,375	699,190	-0.6	32.6	13.9
<i>Residential</i>	22,108	18,863	18,080	-3.2	-15.2	0.2
<i>Non-residential</i>	100,818	149,717	129,550	-5.4	47.0	-9.4
<i>Others</i>	371,245	461,795	551,560	0.9	31.6	22.0
Machinery and equipment	196,424	234,531	229,740	-18.8	17.7	-2.2
Public investment	690,594	864,906	928,930	-6.6	28.4	9.5

Public construction at current market prices registered the value of Baht 699,190 million, consisting of residential, non-residential, and other constructions with the value of Baht 18,080 million, Baht 129,550 million, and Baht 551,560 million, respectively. The real value of public construction rose by 13.9%, decelerating from an expansion of 32.6% in 2015 due to a decrease of disbursement of government investment project particularly on loans on development and management project for water resources management system and urgent-phase for road transport system. Meanwhile, there was no new construction project of state enterprises for this year but only ongoing projects maintained such as the development housing projects of the National Housing Authority and the construction project of electricity distribution system of the Provincial Electricity Authority (PEA).

Public machinery and equipment at current market prices valued at Baht 229,740 million. The real value of public machinery and equipment decreased by 2.2% in contrast to a 17.7% expansion in the previous year, due partly to base effect from imported aircraft for Thai Airways International Public Company in 2015.

Investment (by type of assets)

	Value at current market prices (Millions of Baht)			Growth rate (real term) (%)		
	2014	2015	2016	2014	2015	2016
Tangible fixed assets	3,162,777	3,270,639	3,359,799	-2.5	4.5	2.2
Residential	328,712	314,573	311,248	-1.6	-1.8	2.1
Non-residential	654,660	800,134	829,525	-1.6	33.6	3.2
Machinery and equipment	2,174,941	2,151,381	2,212,751	-3.0	-3.4	1.8
Cultivated assets	4,465	4,550	6,275	29.5	15.5	31.2
Intangible fixed assets	82,497	81,941	106,702	11.0	0.1	24.9
Mineral exploration	35,985	32,462	63,238	1.1	-8.1	90.0
Software	46,512	49,480	43,464	19.3	6.4	-17.8
Cost of ownership transfer	17,505	17,361	17,844	-4.6	1.5	5.4
Investment	3,262,779	3,369,941	3,484,345	-2.2	4.3	2.8

Investment classified by type of assets

Tangible fixed assets at current market prices recorded the value of Baht 3,359,799 million, composing of residential construction, non-residential construction, machinery and equipment, and produced assets with the value of Baht 311,248 million, 829,525 million, Baht 2,212,751 million, and Baht 6,275 million, respectively. The real value of tangible fixed assets expanded by 2.2%, lower than an increase of 4.5% in 2015, attributed to a 2.1% increase in residential construction, compared to a shrink of 1.8% in 2015. Other constructions decelerated by 3.2% from a sharp rise of 33.6% in 2015. Likewise, machinery and equipment increased by 31.2% continually rising from 15.5% in 2015.

Intangible fixed assets at current market prices posted the value of Baht 106,702 million, consisting of mineral exploration and computer software with the values of 63,238 million and Baht 43,464 million, respectively. The real value of intangible fixed rose by 24.9% accelerating from an expansion of 0.1% in the previous year, as a result of a 90.0% rise in mineral exploration in 2015, compared to an 8.1% drop in 2015.

Cost of ownership transfer at current market prices valued at Baht 17,844 million. The real value expanded by 5.4%, improving from an increase of 1.5% in 2015.

Change in inventories

Change in inventories at the current price recorded a decrease of Baht 420,725 million, kept decreasing from the previous year. In 2016, the overall production, private consumption expenditure, and net exports expanded whereas general government final consumption expenditure, and investment slowed down in comparison to the previous year. A decrease in stock was seen from manufacturing goods, namely jewelry and related articles; electronic tubes; and wearing apparel. In particular, stock of jewelry and related articles declined moderately according to higher external demand from the United States of America and European countries. On the contrary, an increase in stock of manufacturing goods covered general purpose machinery; office, accounting and computing machinery; and plastics in primary forms. However, stock of rice diminished as a result of a deceleration in rice production together with an expansion in domestic consumption demand of rice as well as tourist demand in response to an increased number of foreign tourists. Moreover, stock of monetary gold declined due to higher exports in line with rising in the world price of gold. Consequently, the overall change in inventories declined.

External Sectors

Both exports on goods and services receipts grew up

Exports of goods and services

Exports of goods and services in 2016 at current market prices registered Bath 9,950,611 million, expanded by 5.4%, accelerating from a 3.0% growth in 2015, resulting from higher export of goods improving from a decline in 2015. Meanwhile, service receipts slowed down.

Merchandise exports in 2016 at current prices posted the value of Baht 7,560,314 million, increased by 3.1% from 0.4% in 2015, attributed to agricultural, fishery and manufacturing products improvement. Agricultural products shrank at a reducing rate, especially, improvement of rice export value from Republic of Benin and Republic of Indonesia market. Exports of fishery products grew at a high level, attributed to an export of shrimp recovering from limit supply, according to lower effect from of Early Mortality Syndrome (EMS) situation. For exports of manufacturing products, the main driver was not only passenger cars but also air-conditioners which grew from Vietnam market. In addition, other manufacturing products such as electronic parts, automotive parts and gold also expanded. However, exports of pickup trucks continued to decrease from the previous year, according to lower exports to Middle East which was a main market. Furthermore, exports to Japan, U.S.A., European Union (EU), China and ASIAN kept growing. Nevertheless, exports to the Middle East continued to decrease from 2015 as a result of global economy slowdown and revenue reduction from falling oil prices level. In 2016, export prices increased by 2.8% while export volume gradually expanded by 0.3%, improving from a contraction of 2.0% in 2015.

Service receipts at current market price valued at Baht 2,390,297 million, rose by 13.1% due to an expansion of the number of foreign tourists, especially ASEAN, East Asia, Europe and the U.S.A., leading to an expansion of travel and transport receipt. In addition, other business services also increased.

Imports of goods and services

Imports on goods and services maintained dropping but recovered

Imports of goods and services at current market prices posted the value of Baht 7,804,665 million, fell by 0.7% recovering from a 4.9% drop in 2015, due to lower imported goods. Meanwhile, service payments expanded.

Merchandise imports at current market prices registered the value of Baht 6,270,835 million, continued to decrease by 2.1% from a 5.8% fall in 2015. Such a decline mainly originated from lower imports of raw materials particularly imports of crude oil and natural gas. However, imports of electronic parts continued to expand, attributed to rising in electronic export categories. Imported capital goods expanded in line with investment for private equipment and machinery. Imported consumer goods rose in both durable and non-durable goods due to an improvement of private final consumption expenditure. Overall import price level in 2016 slightly grew up by 0.2% in 2016 whereas import volume decreased by 2.3%.

Service payments at current market prices posted the value of Baht 1,533,830 million, expanded by 5.4% rebounding from a decrease of 1.0% in 2015, mainly attributed to an increase of travel payments and other business services. On the other hand, freight payments increased in response to a favorable international trade situation.

Trade and services balance and current account

high current account surplus

Trade and services balance at current market prices presented a surplus at Baht 2,145,946 million, kept increasing from a surplus of Baht 1,583,014 million in 2015. Trade surplus of Baht 1,289,479 million was higher than Baht 924,627 million surplus in 2015. Service balance posted a surplus of Baht 856,467 million, kept increasing from Baht 658,387 million in the previous year. Primary income (net factor income) showed a deficit of Baht 682,355 million, recovering from a deficit of Baht 708,973 million in the previous year. In particular, investment income receipts was larger than investment income payments. Secondary income registered surplus value at Baht 240,553 million, higher than a surplus in last year. Ultimately, aggregation of all current account registered a large surplus of Baht 1,704,145 million, continued rising from a surplus of Baht 1,103,130 million 2015.

Trade and services balance and current account at current market prices

Items	Value at current market prices (Millions of Baht)			Growth rate (%)		
	2014	2015	2016	2014	2015	2016
Exports	9,165,180	9,444,693	9,950,611	4.2	3.0	5.4
Goods	7,359,947	7,331,655	7,560,314	5.3	-0.4	3.1
Services	1,805,233	2,113,038	2,390,297	-0.1	17.1	13.1
Imports	8,270,441	7,861,679	7,804,665	-1.9	-4.9	-0.7
Goods	6,801,008	6,407,028	6,270,835	-2.5	-5.8	-2.1
Services	1,469,433	1,454,651	1,533,830	1.0	-1.0	5.4
Trade and services balance	894,739	1,583,014	2,145,946			
Percentage to GDP (%)	6.8	11.5	14.8			
Primary income	-680,697	-708,973	-682,355			
Secondary income	283,554	229,089	240,553			
Current account balance	497,595	1,103,130	1,704,145			
Percentage to GDP (%)	3.8	8.0	11.7			

Exchange rate

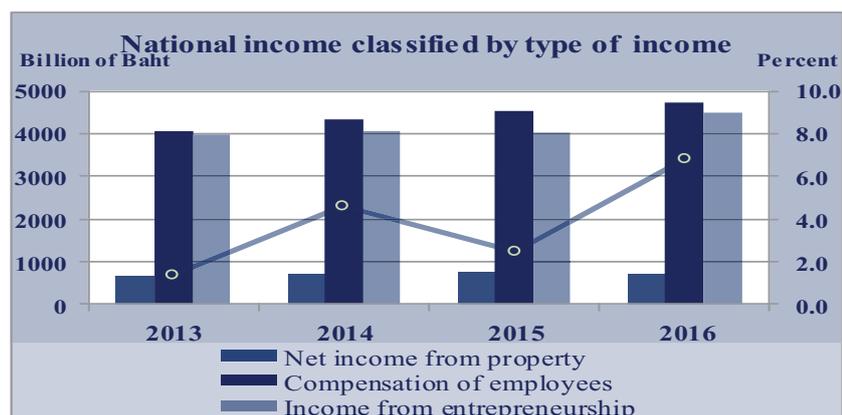
Exchange rate presented an average value at 35.30 Thai Baht per U.S. dollar in 2016, depreciating from 34.25 Thai Baht per U.S. dollar in 2015.

National income and savings

National income rose by 6.8%

National income

National income in 2016 registered at Baht 9,921,830 million, boosted up by 6.8% larger than 2.5% in 2015. Compensation of employees, 47.6% of total national income, grew by 3.9%. Return on capital, land and entrepreneurs, 52.4% proportion of total national income, increased by 9.6% on account of 12.6% rising in entrepreneurship income. On the other hand, net property income contracted by 6.9% owing to declining in both households and non-profit institutions serving households and the government.



Type of income	Value at current market prices (Millions of Baht)			Growth rate (%)		
	2014	2015	2016	2014	2015	2016
Compensation of employees	4,323,540	4,547,812	4,724,692	7.0	5.2	3.9
Income from property and entrepreneurship	4,741,749	4,742,809	5,197,138	2.6	0.0	9.6
Income from property (Net)	687,377	735,072	684,449	4.2	6.9	-6.9
• Households & Non-profit institutions	670,293	709,485	680,503	4.4	5.8	-4.1
• Government	17,084	25,587	3,946	-3.5	49.8	-84.6
Income from entrepreneurship	4,054,372	4,007,737	4,512,689	2.3	-1.2	12.6
• Households & Non-profit institutions	2,629,119	2,543,017	2,783,687	-1.3	-3.3	9.5
• Corporations	1,425,253	1,464,720	1,729,001	9.7	2.8	18.0
National income	9,065,289	9,290,621	9,921,830	4.6	2.5	6.8
Population (1,000 persons)	67,003	67,236	67,455	0.4	0.3	0.3
National income per capita (Baht)	135,297	138,179	147,088	4.2	2.1	6.4

Compensation of employees

Compensation of employees rose by 3.9%, slowing down from 5.2% last year, found in both private and public sector

Compensation of employees valued at Baht 4,724,692 million, 47.6% of total national income, rose by 3.9%, slower than 5.2% in 2015. Compensation of employees in agricultural sector built up by 0.7% improving from a 7.1% reduction in the preceding year. Non-agricultural sector expanded by 4.0% lower than 5.9% in 2015, slowing down in both public and private sector. In conclusion, overall compensation of employees in 2016 rose at a lower rate due to maintaining employee minimum wage and government salary base together with low inflation rate. In addition, number of employees from labor force survey by National Statistical Office and number of insured persons (article 33) at the end of 2016 by Social Security Office also slowed down.

Private and Public compensation of employees

Private compensation of employees (net compensation of employees from abroad included) amounted at Baht 3,095,652 million, 65.5% of total compensation of employees, increased by 3.9% decelerating from a 5.2% rise in the previous year. Private compensation of employees in agricultural sector expanded by 0.7%, less than a 4.1% expansion in non-agriculture sector. Public compensation of employees valued at Baht 1,629,040 million, increased by 3.9% from 5.6% previously, comprising civil servants, government employees, state enterprise employees, permanent public employees and temporary public employees. Compensation of employees for government and state enterprises grew by 4.5% and 0.8 % respectively, lower than the previous year.

Sector	Value at current prices (Millions of Baht)			Growth rate (%)		
	2014	2015	2016	2014	2015	2016
Agricultural sector	203,083	188,743	189,990	-5.4	-7.1	0.7
Agriculture, forestry and fishing	203,083	188,743	189,990	-5.4	-7.1	0.7
Non-agricultural sector	4,097,860	4,338,634	4,512,675	7.8	5.9	4.0
Manufacturing	1,148,327	1,218,929	1,253,380	10.5	6.1	2.8
Construction	192,060	198,001	209,658	-1.7	3.1	5.9
Wholesale and retail trade; repair of motor vehicles and motorcycles	407,810	426,272	449,971	11.0	4.5	5.6
Accommodation and food service activities						
Financial and insurance activities	117,385	133,374	147,132	13.3	13.6	10.3
Public administration and defence; compulsory social security	290,552	308,764	321,060	7.5	6.3	4.0
Education	596,040	623,264	649,947	6.9	4.6	4.3
Human health and social work activities	533,896	559,061	579,462	7.6	4.7	3.6
Others	223,961	242,068	257,220	12.7	8.1	6.3
Net compensation of employees from aboard	587,829	628,901	644,845	2.6	7.0	2.5
Total	22,597	20,435	22,027	-11.9	-9.6	7.8

Compensation of employees in agricultural sector recovered, whilst non-agricultural sector slowed down

Compensation of employees by sector

Compensation of employees in agricultural sector value at Baht 189,990 million regarding as 4.0% share of total compensation of employees and grew by 0.7% recovering from a 7.1% drop in 2015. Such a rise was originated from a higher price of agricultural products, especially oil crops, fruit trees, para rubber, vegetables, livestock and fisheries. Moreover, main agricultural revealed better production trend, particularly from an expansion of fishery products. As a result, employment and compensation of employees in agricultural sector increased.

Compensation of employees in non-agricultural sector value at Baht 4,512,675 million, increased by the rate of 4.0% lower than a 5.9% expansion in 2015, mainly originated from unchanged minimum wage and government salary base. Average private compensation of employees decelerated and diminished in most major sector, for example transportation and storage and financial and insurance activities. On one hand, average private compensation of employees accelerated for a few sectors. Private employment kept slowing down from the previous year, particularly in manufacturing sector. Meanwhile, many service sectors remained proper employment situation, for instance construction and accommodation and food service activities.

Compensation of employees of manufacturing sector, the largest component, increased by 2.8% lower than 6.1% in 2015. Such a slowdown derived from a slightly increase in average compensation rate together with lower employment in major sub sector, such as production of food products, manufacture of wearing apparel, manufacture of computer, and manufacture of motor vehicles. Compensation of employees of mining and quarrying sector declined by 3.3%, attributed mainly to extraction of crude petroleum and natural gas activity.

For construction sector, compensation of employees expanded by 5.9% continued from 3.1% in 2015 due to higher employment, particularly on private construction. Wholesale and retail trade; repair of motor vehicles and motorcycles rose by the rate of 5.6%, from 4.5% in the previous year, partially affected from tourism expenditure in both Thai and foreign tourists. Moreover, vehicle trading and wholesale and retail trade also grew up. Other service activities increased by 7.2%, originating mainly from other personal service activities.

Compensation of employees in other service sectors decelerated. Electricity, gas, steam and air conditioning supply and water supply; sewerage, waste management and remediation activities increased by a lower rate in both state enterprise and private employees at the rate of 5.2% and 2.3%, respectively. Transportation and storage increased by 3.0% from 8.0% in 2015 attributed to a drop of compensation of employees of state enterprise while private compensation of employees slightly slowed down, contributed to land transport and other transport activities. Accommodation and food service activities grew by 10.3%, compared to 13.6% in the preceding year, owing mainly to a slowdown in foreign tourist number while food service activities remained the same rate of growth as 2015. Financial and insurance activities increased by 4.0% from 6.3% in 2015, attributed to a slowdown of commercial bank sector. Meanwhile life and non-life insurance reduced.

Compensation of employees of public administration and defence, compulsory social security sector, education sector and human health and social work activities sector built up by 4.3%, 3.6% and 6.3%, respectively, decelerating from 2015 in all 3 sectors. Net consumption of employees from abroad presented a recovery trend, resulting from an increase in consumption of employees paid from abroad together with a slowdown in consumption of employees paid to non-resident employees .

Returns on land, capital, and entrepreneurs

Net return on land, capital, and entrepreneurship registered the value Baht 5,197,138 million, a 52.4% share of total national income, or expanded by 9.6% and postulated a positive trend from 2015.

Income from farms and households and NPISHs mixed income revealed at Baht 2,783,687 million, a 28.1% proportion of national income, or rose by 9.5% recovering from a 3.3% drop in 2015. Income from farm expanded by 0.8% recovering from an 8.9% fall in 2015 on account of higher production value, resulting from rising in agricultural product prices, particularly oil crops, fruit trees and vegetables. Furthermore, higher fishery prices and Early Mortal Syndrome alleviation. As a result, production and export of fishery products increased. Meanwhile, self-employed and unincorporated enterprise income increased favorably.

Income from entrepreneurship or profit of corporations showed the value of Baht 1,729,001 million, a 17.4% share of national income, or increased by 18.0% higher than a 2.8% rise in 2015. Such a rise was derived from high profit in private corporations whereas profit of cooperatives slowed down.

Households and non-profit institutions serving households (NPISHs) net income from property presented Baht 680,503 million, or contracted by 4.1% from a 5.8% increase in 2015, resulting from that larger income payment surpassed lower income receipt.

Households and private non-profit institutions income from property

Item	Growth rate (%)			Structure (%)		
	2014	2015	2016	2014	2015	2016
Income						
Interest received	-4.5	-6.6	-7.6	28.6	25.5	24.0
<i>from banks</i>	-4.2	-4.8	-10.5	25.7	23.3	21.2
<i>from others</i>	-6.5	-22.1	24.0	2.9	2.2	2.8
Dividends	7.7	12.7	-1.8	48.1	51.7	51.7
Rent	-2.3	-2.5	1.4	8.1	7.6	7.8
Others	10.8	5.2	6.4	15.2	15.2	16.5
Total	3.5	4.8	-1.8	100.0	100.0	100.0
Expense						
Interest paid	2.5	4.2	2.1	65.6	66.5	66.1
Rent	-2.3	-2.5	1.4	23.6	22.4	22.2
Others	8.6	5.9	8.6	10.8	11.1	11.7
Total	1.9	2.8	2.6	100.0	100.0	100.0

Households and NPISHs property income receive posted value at Baht 1,051,186 million, contracted by 1.8%, on account of a decline in interest and dividend, main income by 7.6% and 1.8%, respectively. Lower interest rate and money deposit of households and NPISHs slowed down in response to a consecutive fall of interest paid by banks to households and NPISHs by the rate of 10.5% in 2016, deepening from a 4.8% drop in 2015. Dividend from corporations to households and NPISHs decreased due mainly to a lower dividend payout ratio from private corporations. However, dividend from cooperatives and public corporations expanded. In addition, bond's interest, land rent and other income enhanced.

Households and NPISHs property income payment presented at Baht 370,683 million, or increased by 2.6%, slightly slowing down from a 2.8% growth in the previous year. Interest payment expanded by 2.1%, decelerating from a 4.2% rise in 2015 contributed to lower interest paid to banks as a result of a slowdown in personal loan (excluding purchases of land, accommodation and real estate and loan for working abroad). Moreover, average interest rate also lower. However, interest paid to pawnshops and cooperatives, other payment and land rent built up.

General government income from property consisting of income from rent, interest, and dividends dropped by 3.8%, decelerating from 6.5% in 2015. Such a decrease was mainly from rent income which decreased by 12.7%, attributed to a decrease from extra-received benefits from petroleum royalty. Income from interests decreased by 2.2%, owing partially to a decrease in deposit return from financial institutions and investment return on securities. Meanwhile, dividend income declined by 7.6%, attributed to a decrease in dividend from some state enterprises in utility service sector, transportation sector, and service industry sector.

General government income from property

Item	Growth rate (%)			Structure (%)		
	2014	2015	2016	2014	2015	2016
Rent	-18.1	-22.1	-12.7	4.4	3.3	3.0
Interest received	-1.3	6.1	-2.2	20.6	20.5	20.9
<i>From Banks</i>	-3.0	5.7	-5.5	17.7	17.6	17.3
<i>From others</i>	10.3	8.5	17.5	2.9	2.9	3.6
Dividend	14.3	9.0	-7.6	57.0	58.3	56.0
Investment income on pension entitlement	8.6	5.9	8.6	18.0	17.9	20.2
Total	7.9	6.5	-3.8	100.0	100.0	100.0

Saving and saving - investment gap

Gross savings and net saving, gross saving registered at the value of baht 4,767,765 million, consecutively increasing by 14.4% from 13.8% in 2015. Net saving presented at Baht 1,889,468 million, rising by 21.2% from a 7.7% growth in 2015. Such a sharp rise was principally attributed to a 23.1% growth of private net saving which improved from a 2.0% drop in 2015 as a result of an increase in both households and NPISHs and private corporations. On the contrary, public net saving fell by 18.8% , attributed to running deficit for government's net saving with the value of Baht 167,060 million, the highest deficit in last 3 years. However, public corporations and government enterprises remained surplus of net saving. Consumption of fixed capital in 2016 registered at Baht 2,480,248 million, growing close to the rate of 2015.

Saving and gross capital formation

Item	Value at current price (Millions of Baht)			Growth rate (%)		
	2014	2015	2016	2014	2015	2016
Gross capital formation	3,164,561	3,065,336	3,063,620	-10.8	-3.1	-0.1
• Private sector	2,572,184	2,505,035	2,555,415	1.2	-2.6	2.0
• Public sector	690,594	864,906	928,930	-6.3	25.2	7.4
• Change in inventories	-98,217	-304,605	-420,725	-	-210.1	-38.1
Gross saving	3,662,158	4,168,466	4,767,765	7.3	13.8	14.4
• Net saving	1,447,439	1,559,354	1,889,468	-1.6	7.7	21.2
• Depreciation	2,214,196	2,342,578	2,480,248	6.2	5.8	5.9
• Discrepancy	523	266,534	398,049	100.4	50,862.5	49.3
Saving-investment gap	497,597	1,103,130	1,704,145	469.6	121.7	54.5
<i>Saving-investment gap to GDP (%)</i>	3.8	8.0	11.7			

Private net saving

Private net saving comprising households and NPISHs, private corporations and cooperatives posted the value of Baht 1,829,758 million, or increased by 23.1% in contrast to a fall of 2.0% in 2015.

Households and non-profit institutes net saving

Households and NPISHs net saving recorded at Baht 805,664 million, or rose by 18.9% extremely elevating from a 0.3% rise in 2015, on account of disposable income acceleration which effected by higher income and a slowdown payment. In addition, private final consumption expenditure grew at the lower rate than disposable income, so households and NPISHs net saving expanded.

Households and NPISHs income revealed at Baht 9,223,308 million, a 5.2% expansion, owning mainly to a 1.9% growth of primary income, which comprised (1) compensation of employees, 51.2% share to total income, increased by 3.9% (2) income from farm and unincorporated enterprises, 30.2% share of total income, 9.5% grew up and (3) property income, decreased by 1.8% due to a continual lower interest rate and lower dividend payout ratio. Not only did primary income increase but secondary income, consisting of social benefits other

than social transfers in kind and other current transfers which expanded at the rate of 10.0%. As a result, overall households and NPISHs income grew up.

Primary and secondary income payment, unavoidable expenses, posted the value at Baht 1,291,748 million, or grew by the rate of 2.6% slowing down from 2.8% in 2015. Major expenses were from property income payment and income tax which increased by 2.6% and 3.3%, slowing down from 2.8% and 14.5%, respectively. Net social security contribution increased by 11.1% and current transfer to government and abroad rose by 11.7%.

Disposable income increased by 5.0%, rising from 1.0% in the previous year. Such an expansion was higher than a 3.5% growth for private final consumption expenditure. As a result, private net saving considerably kept rising. Average annual private net saving presented at Baht 11,944 per person, rising by 18.6%.

Personal income, expenditure and saving

Item	Value at current prices (Millions of Baht)			Growth rate (%)		
	2014	2015	2016	2014	2015	2016
Personal income	8,598,036	8,765,056	9,223,308	3.5	1.9	5.2
Personal outlay	1,120,502	1,209,974	1,291,748	3.2	8.0	6.8
Disposable personal income	7,477,534	7,555,082	7,931,560	3.6	1.0	5.0
<i>Less</i> Private consumption expenditure	6,933,442	7,012,564	7,260,409	2.8	1.1	3.5
<i>Plus</i> adjusting with benefit from funds ¹	131,124	134,830	134,513	1.6	2.8	-0.2
Personal savings	675,216	677,348	805,664	12.4	0.3	18.9
Disposable personal income per capita (Baht)	111,600	112,367	117,583	3.2	0.7	4.6
Personal outlay per capita (Baht)	103,480	104,298	107,633	2.4	0.8	3.2
Personal savings per capita (Baht)	10,077	10,074	11,944	12.0	0.0	18.6

Remark ^{1/} only government funds such as social security fund (subsidies and elderly plan), private teacher aid fund, Bangkok government pension fund, and local government pension fund

Private corporations and cooperatives net saving

Net saving for corporations and cooperatives showed at Baht 1,024,094 million, or boosted up by 26.7%, improving from a 3.9% reduction in 2015. Net saving of cooperatives expanded by 5.8% lower than the previous year. Net saving of private corporations valued at Baht 1,013,429 million, significantly increased by 26.9% in contrast to a 4.3% fall in the previous year. Net saving for all sub-sectors of private corporations posted favorable expansion, namely listed companies in Stock Exchange of Thailand (excluding private commercial banks and public corporations), private commercial banks and other private corporations. However, after adjustment of national accounts definition, private corporation performance showed favorable trend, better than an increase of overall business profit which postulated at the close rate of last year. Furthermore, after adopting national accounts definition for performance adjustment with a lower deficit for international net saving, hence overall private corporations and cooperatives net saving revealed a favorable level.

Net saving

Item	Value at current prices (Millions of Baht)			Growth rate (%)		
	2014	2015	2016	2014	2015	2016
Net savings	1,447,439	1,559,354	1,889,468	-1.6	7.7	21.2
Private sector	1,516,343	1,485,817	1,829,758	17.5	-2.0	23.1
• <i>Households</i>	675,216	677,349	805,664	12.4	0.3	18.9
• <i>Corporations & cooperatives</i>	841,127	808,469	1,024,094	21.9	-3.9	26.7
Public sector	-68,904	73,537	59,710	-138.3	206.7	-18.8
• <i>Government</i>	-158,115	-58,315	-167,060	-344.4	63.1	-186.5
• <i>Enterprises</i>	89,211	131,852	226,770	-22.7	47.8	72.0
Gross saving	3,662,158	4,168,466	4,767,765	7.3	13.8	14.4
<i>Gross savings to GDP (%)</i>	27.7	30.3	32.8			

Public net saving

Public net saving, comprising saving from general government, public corporations and government enterprises, recorded value at Baht 59,710 million or dropped by 18.8%. General government net saving registered a deficit of Baht 167,060 million, deepening than a deficit of Baht 58,315 million in 2015. Nevertheless, net saving of public corporations and government enterprises presented a surplus of Baht 226,770 million, extremely boosting up by 72.0% greater than a growth of 47.8% in 2015.

General government net saving

General government net saving recorded the deficit value of Baht 167,060 million with the negative share of 279% of public saving or the negative share 1.2% of gross domestic product. In 2016, revenues of general government registered the value of Baht 4,301,857 million, decelerating with an increased rate of 3.7%, contributed mainly to as income from taxes (the main component) decelerated with an increased rate of 1.9%. Meanwhile, government expenditure in non-investment item posted at Baht 4,061,991 million, or increased by 6.6%. In the meantime, the value of adjustment for the change in pension entitlement declined by 0.2%, attributed to a decline in general government net saving with the rate of 186.5% in contrast to a 63.1% increase in 2015.

In 2016, a deceleration in general government income was mainly originated from a decline of production and imports, property holdings, general government income from property, and current taxes on income, which enabled to categorize as follow:

General government income, expenditure and savings

Item	Value at current prices (Millions of Baht)			Growth rate (%)		
	2014	2015	2016	2014	2015	2016
General government income	3,893,082	4,149,860	4,301,857	-2.6	6.6	3.7
General government expenditure	1,432,641	1,459,711	1,600,452	-0.9	1.9	9.6
Disposable general government income	2,460,441	2,690,149	2,701,405	-3.6	9.3	0.4
<i>Less Final consumption expenditure</i>	2,238,084	2,352,617	2,461,539	5.9	5.1	4.6
<i>Less Adjustment for the change in pension entitlement¹</i>	131,124	134,830	134,513	1.6	2.8	-0.2
<i>Less Consumption of fixed capital</i>	249,348	261,017	272,413	1.7	4.7	4.4
General government net savings	-158,115	-58,315	-167,060	-344.4	63.1	-186.5

Remark1/ only government funds such as social security fund (subsidies and elderly plan), private teacher aid fund, Bangkok government pension fund, and local government pension fund

Taxes on production and imports regarded as the main source of revenues with the proportion of 35.4%, decelerated by 3.2% from a 5.9% expansion in last year, owing to a deceleration government taxes collection.

Taxes with decelerating growth included: (1) Value added tax as a result of a deceleration of vat collection on consumption such as wholesale and retail sector, hotels sector which expanded as a result of the expansion from number of tourists, constructions sector, food products sector, and production of coke and refined petroleum sector. However, vat from imports declined according to a decrease in import value of raw materials and intermediate products especially crude oil in which its price kept dropping; (2) Oil and oil products tax as a result of the lower price in the world market even though some kind of oil tax rates had risen, resulting from higher amount for oil and oil product collection in year 2016 higher than the previous year; (3) Beer tax due to imposing market strategy from beer producer resulting that tax revenue from beer manufacturer declined.

Taxes with rising growth included (1) Motor-vehicle tax as a result of restructuring motor-vehicle tax and launching new model of PPV into the market; (2) Tobacco tax as a result of increasing tobacco tax rate especially ad valorem from 87% to be 90% and specific tax from Baht 1.0 per gram to be Baht 1.10 per gram which was effective on February 10th, 2016. As a result, tobacco tax paid amount became higher. In addition, consumers switched to a cheaper cigarette brands and ultimately tobacco tax collection amount increased; (3) Income from the Government Lottery Office; (4) Non-alcoholic beverage tax.

Taxes with declining growth included (1) Petroleum royalty due to lower turnover as a result of falling in crude oil price and natural gas (liquid) since the end of 2014 which affected the turnover and profits of petroleum producers and led to lower tax collection on net profit, net profit estimation and profit redistribution to aboard; (2) Income from Thailand Tobacco Monopoly; (3) Liquor tax and stamp due to intensive control measure in selling alcoholic around educational institutes (Zoning) under a mandate of the National Council for Peace and Order. Therefore; alcoholic selling channel decreased, especially types of liquor with high tax rate such as compound alcoholic beverages, imported liquors, etc. As a result, liquor tax collection amount declined in this

year; (4) Specific business taxes due to the taxes scheme to boost real estate sector which was effective from 29 October 2015 to 28 April 2016 and an increase in number of land transfer transactions in response to the new land assessment price which raised from January 2016, 1st. After the end of those schemes, the specific business tax rebounded to slowdown. In addition, commercial banks loan lowered average interest rate in which MLR reduced to 6.38% from 6.63% in 2015.

Property Income from government and Investment income payable on pension entitlements with the share of 5% of total government revenue decreased by 3.8%, attributed to a 2.2% increase in interest income due to a fall in deposit return from financial institutions and investment return on securities. Rents decreased by 12.7%, attributed to a decrease from extra-received benefit from petroleum royalty. In the meantime, dividend income with the share of 70.2% of total government property income which decreased by 7.6% as a result of a slowdown in income from Government Saving Bank, Expressway Authority of Thailand, Electric Generating Authority of Thailand, and etc. Meanwhile, other property incomes such as investment income from pension entitlements increased by 8.6%, due to an increase of dividend and interest receive (child allowance and old-aged program) from social security fund.

Current taxes on income, wealth, etc. with the share of 21.9% of total government revenue decreased by 0.2%, as a result of a decrease in income taxes base in line with economic slowdown.

Taxes with decreasing growth were described as follows; First, petroleum income tax collection decreased by 44.4%, as a result of lower turnover (preliminary data) due to falling in crude oil price and national gas (liquid) since the end of 2014 which affected turnover and profits of petroleum producers, resulting lower tax collection on net profit, net profit estimation and profit redistribution to aboard. Second, personal income tax decelerated by 4.2%, attributed to a 6.9% deceleration of tax on salary base collection in line with an expansion of wages and employment. In the meantime, service sector employment slowed down by 1.0%. Meanwhile, wages for manufacture employment maintained the same level whereas public administration sector expanded 6.0%. For withholding tax collection on interest payment and on real estate transaction decreased by 4.1% and 0.2% respectively. However, corporate income tax collection increased by 5.4%. Supporting factors for higher tax collection were partially from: (1) Tax collection on net profit rose by 17.7% higher than the previous year as result of an expansion of tax on net profit of the second half of 2015. In addition, the Revenue Department collected higher taxes from under-tax-payment entrepreneurs who granted investment promotion and abused tax intensive scheme by correcting to accurate tax rate in compliance to the Supreme Court judgement. (2) Tax collection on income redistribution aboard was higher than the previous year by 16.1% due to the higher business turnover in 2015, resulting that profits redistribution transfer in service payments was higher aboard in 2016. (3) Withholding tax collection by private sector (Por Ngor Dor 53) increased but decelerated by 1.0% in response to production of real sector. The main factors were from a deceleration level of production whereas manufacturing production index (MPI) expanded slightly by 0.1% and capacity utilization was at 65.8% at the same rate as 2015, resulting that employment slightly increased.

Social contributions with the proportion of 11.9% to total government revenue increased by 11.1%, as a consequence of an increase in both employer and employee contributions to social security fund. Meanwhile, the rate of contributions of both employers and employees maintained at the same rate as last year.

Miscellaneous current transfers, receivable with the 1.2% share of total government revenue, decelerated by 2.0% as a result of a deceleration in income from traffic penalty and pay fine.

Interest paid with the 5.2% share of total government revenue, increased by 6.2%, in response to a slowdown in interest payments on domestic debt with a growth of 5.0%. Supporting factors were found from major items. (1) Government bond yield as bond redemption increased by 13.7% whereas a short-term yield maintained stable in line with policy interest rate movement. At the end of 2016, the 1-month government bond yield stood at 1.47%, approximately dropped by 0.03% down from the end of the previous year. Meanwhile, middle-term and long-term yield was volatile, attributed mainly to external factors declining in the first half of 2016 due to investor concerns on global economic recovery and risks from global political uncertainty. Nevertheless, it started to recover in the second half of 2016 in response to investors' expectation, especially on policy interest rate movement from the US central Bank (Fed). As a result, in overall short-term and long-term yield was lower than an average in the previous year. In addition, the 10-year government bond yield traded at 2.18% at the end of 2016, a 0.56% drop from 2015 in line with easing financial condition. Meanwhile, discount interest payment for treasury bill decreased by 73.4% as a result of a 49.1% decrease in bills redemption. Debt restructuring bills decreased in response to a 20.0% decrease in its debt restructuring bills redemption, which decreased by 17.2%. The short-term interest of commercial banks was stable in line with policy interest rate movement. At the end of 2016, an interbank rate and overnight rate stood at 1.40%, the same as previous year.

Subsidies with the share of 1.8% to total government expenditure increased by 4.4% as a result of an increase of subsidies on LPG and Gasohol from oil fund, together with subsidies on sugarcane producers.

Social benefits other than social transfers in kind with the share of 10.4% to total government expenditure increased by 12.1%, attributed to an expansion of pension, subsistence allowances, medical fees, survivorship pension, financial aid for elderly, and financial aid for AIDS patients. However, fees for the cost of living pension recipients, financial aid for disable and elderly subsidy by Social Security Fund (section 40) declined.

Miscellaneous current transfers, payable with the share of 2.7% to total government expenditure increased by 33.4% as a result of an increase in transfers from the strengthening grassroots and empowering communities (Pracha Rat) project, the measure to raise income for poor people under state welfare scheme, and subsidy for victim from natural disaster.

2) Public corporations and government enterprises net saving

Public corporations and government enterprises net saving posted at Baht 226,770 million, increased by 72.0% elevating from a 47.8% growth in 2015.

Net profit of public corporations and government enterprises in business accounting figure posted the value of Baht 219,330 million, or contracted by 16.6%. After combining with Baht 174,327 million of national account definition adjustment, net profit of public corporations and government enterprises in national accounts aspect registered at Baht 393,657 million, rising by 38.0%. After excluding an 8.7% expansion of profit allocation from net profit of public corporations and government enterprises in national accounts aspect, net saving of public corporations and government enterprises boosted up.

3 consecutive years of high saving-investment gap

Saving-investment gap

Saving-investment gap registered a surplus of Baht 1,704,145 million, 11.7% proportion of GDP, regarded as three consecutive years surplus from Baht 497,597 million and Baht 1,103,130 million in 2014 and 2015, respectively. Such a huge surplus was sourced by Baht 4,767,765 million of gross saving, a 14.4% growth, and Baht 3,063,620 million of investment, slightly falling by 0.1%.

GDP Implicit Price Deflator

Overall price level increased by 2.4% accelerating from a 0.9% rise in the previous year.

GDP Implicit Price Deflator

GDP Implicit Price Deflator grew by 2.4%, accelerating from 0.9% rise in the previous year. Agricultural price deflator increased by 2.5%, compared to a fall of 1.2% previously. Non-agricultural price deflator rose by 2.3%, compared to a rise of 1.1% in last year. Rising in deflators contributed chiefly to main activities namely manufacturing; electricity, gas, steam and air conditioning supply; wholesale and retail trade; accommodation and food service; information and communication; financial and insurance; human health and social work; and other service activities. Falling in deflators was found from water supply, sewerage, waste management and remediation; transportation and storage; real estates; public administration and defence; compulsory social security; arts, entertainment and recreation; education; and households as employers.

On the expenditure side, overall price deflator rose by 3.0%, compared to a rise of 2.7% in the previous year. Private consumption expenditure price deflator inclined by 0.5%, recovering from a drop of 1.1% previously. In addition, price deflator of investment rose by 0.6%. In addition, price of government final consumption expenditure grew by 2.4%. For external sector, price deflator of exports of goods and services rose by 2.5%, decelerating from a rise of 1.5% in 2015. Price deflator of import goods and services increased by 0.3%, in contrast to a drop of 4.9% previously.

Consumer price index (CPI) expanded by 0.2%, in contrast to a 0.9% fall in the previous year while producer price index (PPI) declined by 1.2%, recovering from a drop of 4.1% in last year.

Growth rate of implicit price deflator

(%)

Implicit price deflator	2012	2013	2014	2015	2016
Gross domestic product, (GDP)	1.9	1.8	1.4	0.9	2.4
Agriculture	5.6	2.1	-8.5	-1.2	2.5
Non-agriculture	1.4	1.7	2.7	1.1	2.3
Expenditure on gross domestic product	2.2	2.6	2.5	2.7	3.0
Private final consumption expenditure	2.4	2.1	2.0	-1.1	0.5
General government final consumption expenditure	3.3	3.0	3.0	2.6	2.4
Gross fixed capital formation	3.1	-0.7	1.8	-1.0	0.6
Exports of goods and services	2.6	-0.6	3.9	1.5	2.5
Imports of goods and services	3.3	-2.3	3.6	-4.9	0.3
Consumer price index (CPI)	3.0	2.2	1.9	-0.9	0.2
Producer price index (PPI)	1.0	0.3	0.1	-4.1	-1.2

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Main Accounts

Account 1 Production account

(Millions of Baht) ons of Baht)

Transactions and balancing items	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Uses								
Intermediate consumption	14,692,104	16,864,439	17,244,688	18,935,584	19,469,478	19,533,100	19,037,312	18,971,201
Value added, gross / Gross domestic product	9,658,664	10,808,142	11,306,907	12,357,344	12,915,159	13,230,303	13,746,997	14,533,465
Consumption of fixed capital	1,486,739	1,590,776	1,738,526	1,958,158	2,084,525	2,214,196	2,342,578	2,480,248
Value added, net / Net domestic product	8,171,925	9,217,366	9,568,381	10,399,186	10,830,634	11,016,107	11,404,419	12,053,217
Resources								
Output	23,482,149	26,611,337	27,499,711	30,068,101	31,112,133	31,554,616	31,438,749	32,131,392
Market output	22,041,567	25,050,350	25,814,064	28,210,923	29,147,172	29,474,523	29,239,804	29,846,287
Non-market output	1,440,582	1,560,987	1,685,647	1,857,178	1,964,961	2,080,093	2,198,945	2,285,105
Taxes on products	907,295	1,111,386	1,145,656	1,303,706	1,351,505	1,303,157	1,388,262	1,421,516
Subsidies on products (-)	38,676	50,142	93,772	78,879	79,001	94,370	42,702	48,242

Account 2 Generation of income account

(Millions of Baht) ons of Baht)

Transactions and balancing items	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Uses								
Compensation of employees, payable	3,030,554	3,227,942	3,411,393	3,783,696	4,016,251	4,300,943	4,527,377	4,702,665
Wages and salaries	2,686,451	2,857,125	3,013,748	3,365,027	3,574,463	3,816,852	4,000,831	4,127,272
Employers' social contributions	344,103	370,817	397,645	418,669	441,788	484,091	526,546	575,393
Taxes on production and imports, payable	966,756	1,181,367	1,220,712	1,384,661	1,443,542	1,391,975	1,474,161	1,521,424
Taxes on products	907,295	1,111,386	1,145,656	1,303,706	1,351,505	1,303,157	1,388,262	1,421,516
Other taxes on production	59,461	69,981	75,056	80,955	92,037	88,818	85,899	99,908
(less) Subsidies, receivable	56,145	69,892	113,574	100,106	103,665	121,854	69,337	72,391
Subsidies on products	38,676	50,142	93,772	78,879	79,001	94,370	42,702	48,242
Other subsidies on production	17,469	19,750	19,802	21,227	24,664	27,484	26,635	24,149
Mixed income and operating surplus, gross	5,717,499	6,468,725	6,788,376	7,289,093	7,559,031	7,659,239	7,814,796	8,381,767
Consumption of fixed capital	1,486,739	1,590,776	1,738,526	1,958,158	2,084,525	2,214,196	2,342,578	2,480,248
Mixed income and operating surplus, net	4,230,760	4,877,949	5,049,850	5,330,935	5,474,506	5,445,043	5,472,218	5,901,519
Resources								
Value added, gross / Gross domestic product	9,658,664	10,808,142	11,306,907	12,357,344	12,915,159	13,230,303	13,746,997	14,533,465
Value added, net / Net domestic product	8,171,925	9,217,366	9,568,381	10,399,186	10,830,634	11,016,107	11,404,419	12,053,217

Account 3 Allocation of primary income account

(Millions of Baht)

Transactions and balancing items	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Uses								
Balance of primary incomes, gross								
/ National income, gross	9,320,201	10,355,372	11,034,197	11,791,146	12,089,671	12,549,606	13,038,023	13,851,111
Balance of primary incomes, net								
/ National income, net	7,833,462	8,764,596	9,295,671	9,832,988	10,005,146	10,335,410	10,695,445	11,370,863
Resources								
Mixed income and operating surplus, gross	5,717,499	6,468,725	6,788,376	7,289,093	7,559,031	7,659,239	7,814,796	8,381,767
Mixed income and operating surplus, net	4,230,760	4,877,949	5,049,850	5,330,935	5,474,506	5,445,043	5,472,218	5,901,519
Compensation of employees	3,026,432	3,231,751	3,430,944	3,812,499	4,041,907	4,323,540	4,547,812	4,724,692
Wages and salaries	2,682,329	2,860,934	3,033,299	3,393,830	3,600,119	3,839,449	4,021,266	4,149,299
Employers' social contributions	344,103	370,817	397,645	418,669	441,788	484,091	526,546	575,393
Taxes on production and imports	966,756	1,181,367	1,220,712	1,384,661	1,443,542	1,391,975	1,474,161	1,521,424
Taxes on products	907,295	1,111,386	1,145,656	1,303,706	1,351,505	1,303,157	1,388,262	1,421,516
Other taxes on production	59,461	69,981	75,056	80,955	92,037	88,818	85,899	99,908
(less) Subsidies	56,145	69,892	113,574	100,106	103,665	121,854	69,337	72,391
Subsidies on products	38,676	50,142	93,772	78,879	79,001	94,370	42,702	48,242
Other subsidies on production	17,469	19,750	19,802	21,227	24,664	27,484	26,635	24,149
Property income ^{1/}	-334,341	-456,579	-292,261	-595,001	-851,144	-703,294	-729,409	-704,381

Note : 1/ Property income receivable less property income payable

Account 4 Secondary distribution of income account

(Millions of Baht)

Transactions and balancing items	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Uses								
Current transfers	1,964,171	2,292,107	2,415,240	2,810,223	2,875,549	2,821,764	2,998,046	3,179,210
Current taxes on income, wealth, etc.	662,185	727,713	886,235	925,098	988,890	915,579	944,050	941,978
Taxes on income	639,928	701,328	857,903	892,434	959,843	881,447	906,322	908,726
Other current taxes	22,257	26,385	28,332	32,664	29,047	34,132	37,728	33,252
Social contributions	413,316	452,084	486,896	514,329	555,529	610,254	656,699	711,412
Employers' actual social contributions	99,526	112,828	120,355	118,036	136,318	158,414	166,697	170,363
Employers' imputed social contributions	244,577	257,989	277,290	300,633	305,470	325,677	359,849	405,030
Households' actual social contributions1/	48,378	57,310	60,991	63,528	79,004	88,430	90,186	92,613
Households' social contributions supplements1/	20,835	23,957	28,260	32,132	34,737	37,733	39,967	43,406
Social benefits other than social transfers in kind	256,223	293,530	275,045	326,151	330,096	346,702	376,032	421,410
Social security benefits in cash	21,534	20,860	22,352	26,986	29,400	30,159	31,710	36,950
Other social insurance benefits	177,665	186,434	197,138	215,128	207,476	227,205	251,496	293,880
Social assistance benefits in cash	57,024	86,236	55,555	84,037	93,220	89,338	92,826	90,580
Other current transfers	632,447	818,780	767,064	1,044,645	1,001,034	949,229	1,021,265	1,104,410
Net non-life insurance premiums 2/	223	576	540	480	380	444	196	217
Current transfer within general government	441,100	589,381	580,745	814,877	712,042	656,299	734,248	785,206
Current international cooperation	1,467	1,631	1,553	1,334	1,375	1,819	1,433	2,451
Miscellaneous current transfers	189,657	227,192	184,226	227,954	287,237	290,667	285,388	316,536
Disposable income, gross	9,495,955	10,548,386	11,369,668	12,178,196	12,415,679	12,833,160	13,267,113	14,091,665
Disposable income, net	8,009,216	8,957,610	9,631,142	10,220,038	10,331,154	10,618,964	10,924,535	11,611,417
Resources								
Balance of primary incomes, gross								
/ National income, gross	9,320,201	10,355,372	11,034,197	11,791,146	12,089,671	12,549,606	13,038,023	13,851,111
Balance of primary incomes, net								
/ National income, net	7,833,462	8,764,596	9,295,671	9,832,988	10,005,146	10,335,410	10,695,445	11,370,863
Current transfers	2,139,924	2,485,121	2,750,711	3,197,274	3,201,556	3,105,318	3,227,136	3,419,764
Current taxes on income, wealth, etc.	662,185	727,713	886,235	925,098	988,890	915,579	944,050	941,978
Taxes on income	639,928	701,328	857,903	892,434	959,843	881,447	906,322	908,726
Other current taxes	22,257	26,385	28,332	32,664	29,047	34,132	37,728	33,252
Social contributions	413,316	452,084	486,896	514,329	555,529	610,254	656,699	711,412
Employers' actual social contributions	99,526	112,828	120,355	118,036	136,318	158,414	166,697	170,363
Employers' imputed social contributions	244,577	257,989	277,290	300,633	305,470	325,677	359,849	405,030
Households' actual social contributions1/	48,378	57,310	60,991	63,528	79,004	88,430	90,186	92,613
Households' social contributions supplements1/	20,835	23,957	28,260	32,132	34,737	37,733	39,967	43,406
Social benefits other than social transfers in kind	256,223	293,530	275,045	326,151	330,096	346,702	376,032	421,410
Social security benefits in cash	21,534	20,860	22,352	26,986	29,400	30,159	31,710	36,950
Other social insurance benefits	177,665	186,434	197,138	215,128	207,476	227,205	251,496	293,880
Social assistance benefits in cash	57,024	86,236	55,555	84,037	93,220	89,338	92,826	90,580
Other current transfers	808,200	1,011,794	1,102,535	1,431,696	1,327,041	1,232,783	1,250,355	1,344,964
Non-life insurance claims2/	3	2	8	21	1	2	1	1
Current transfer within general government	441,100	589,381	580,745	814,877	712,042	656,299	734,248	785,206
Current international cooperation	2,737	2,818	3,592	5,214	3,120	3,497	2,190	2,950
Miscellaneous current transfers	364,360	419,593	518,190	611,584	611,878	572,985	513,916	556,807

Note : 1/ Governmental funds consist of social security fund (welfare and senility plan)

2/ Government only

Account 5 Use of disposable income account

(Millions of Baht)

Transactions and balancing items	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Uses								
Final consumption expenditure	6,668,904	7,346,989	7,813,380	8,564,855	8,860,245	9,171,525	9,365,181	9,721,949
Individual consumption expenditure	5,851,294	6,456,541	6,858,551	7,526,883	7,759,682	8,030,352	8,159,859	8,472,678
Collective consumption expenditure	817,610	890,448	954,829	1,037,972	1,100,563	1,141,173	1,205,322	1,249,271
Adjustment for the change in pension entitlements	75,480	85,883	94,873	107,370	129,060	131,124	134,830	134,513
Saving, gross	2,827,051	3,201,397	3,556,288	3,613,341	3,555,434	3,661,635	3,901,932	4,369,716
Saving, net	1,340,312	1,610,621	1,817,762	1,655,183	1,470,909	1,447,439	1,559,354	1,889,468
Resources								
Disposable income, gross	9,495,955	10,548,386	11,369,668	12,178,196	12,415,679	12,833,160	13,267,113	14,091,665
Disposable income, net	8,009,216	8,957,610	9,631,142	10,220,038	10,331,154	10,618,964	10,924,535	11,611,417
Adjustment for the change in pension entitlements	75,480	85,883	94,873	107,370	129,060	131,124	134,830	134,513

Account 6 Redistribution of income in kind account

(Millions of Baht)

Transactions and balancing items	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Uses								
Social transfers in kind	725,852	817,330	870,307	982,822	1,012,806	1,096,910	1,147,295	1,212,269
Social transfers in kind - non-market production	557,793	603,236	656,899	737,151	774,914	852,780	903,814	947,261
Social transfers in kind - purchased market production	168,059	214,094	213,408	245,671	237,892	244,130	243,481	265,008
Adjusted disposable income, gross	9,495,955	10,548,386	11,369,668	12,178,196	12,415,679	12,833,160	13,267,113	14,091,665
Adjusted disposable income, net	8,009,216	8,957,610	9,631,142	10,220,038	10,331,154	10,618,964	10,924,535	11,611,417
Resources								
Disposable income, gross	9,495,955	10,548,386	11,369,668	12,178,196	12,415,679	12,833,160	13,267,113	14,091,665
Disposable income, net	8,009,216	8,957,610	9,631,142	10,220,038	10,331,154	10,618,964	10,924,535	11,611,417
Social transfers in kind	725,852	817,330	870,307	982,822	1,012,806	1,096,910	1,147,295	1,212,269
Social transfers in kind - non-market production	557,793	603,236	656,899	737,151	774,914	852,780	903,814	947,261
Social transfers in kind - purchased market production	168,059	214,094	213,408	245,671	237,892	244,130	243,481	265,008

Account 7 Use of adjusted disposable income account

(Millions of Baht)

Transactions and balancing items	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Uses								
Actual final consumption	6,668,904	7,346,989	7,813,380	8,564,855	8,860,245	9,171,525	9,365,181	9,721,949
Actual individual consumption	5,851,294	6,456,541	6,858,551	7,526,883	7,759,682	8,030,352	8,159,859	8,472,678
Actual collective consumption	817,610	890,448	954,829	1,037,972	1,100,563	1,141,173	1,205,322	1,249,271
Adjustment for the change in pension entitlements	75,480	85,883	94,873	107,370	129,060	131,124	134,830	134,513
Saving, gross	2,827,051	3,201,397	3,556,288	3,613,341	3,555,434	3,661,635	3,901,932	4,369,716
Saving, net	1,340,312	1,610,621	1,817,762	1,655,183	1,470,909	1,447,439	1,559,354	1,889,468
Resources								
Adjusted disposable income, gross	9,495,955	10,548,386	11,369,668	12,178,196	12,415,679	12,833,160	13,267,113	14,091,665
Adjusted disposable income, net	8,009,216	8,957,610	9,631,142	10,220,038	10,331,154	10,618,964	10,924,535	11,611,417
Adjustment for the change in pension entitlements	75,480	85,883	94,873	107,370	129,060	131,124	134,830	134,513

Account 8 External income account

(Millions of Baht)

Transactions and balancing items	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Income of non-residents								
Import of goods and services	5,295,925	6,567,498	7,781,469	8,492,424	8,432,453	8,270,441	7,861,679	7,804,665
<i>Import of goods</i>	4,117,143	5,259,458	6,376,152	7,073,389	6,977,230	6,801,008	6,407,028	6,270,835
<i>Import of services</i>	1,178,782	1,308,040	1,405,317	1,419,035	1,455,223	1,469,433	1,454,651	1,533,830
Primary income receivable by non-residents	487,304	631,932	475,389	816,716	1,025,561	919,664	875,532	909,380
<i>Compensation of employees</i>	39,356	36,498	33,087	30,317	30,835	39,391	49,203	56,705
<i>Property income</i>	447,948	595,434	442,302	786,399	994,726	880,273	826,329	852,675
Secondary income receivable by non-residents	98,054	85,478	84,065	96,368	109,072	118,386	129,362	133,075
Other current transfer	98,054	85,478	84,065	96,368	109,072	118,386	129,362	133,075
<i>Public</i>	1,467	1,631	1,553	1,334	1,375	1,819	1,433	2,451
<i>Private</i>	96,587	83,847	82,512	95,034	107,697	116,567	127,929	130,624
Use of income by non-residents								
Export of goods and services	6,223,910	7,185,923	8,011,498	8,619,919	8,797,311	9,165,180	9,444,693	9,950,611
<i>Export of goods</i>	5,189,923	6,099,860	6,744,693	7,075,805	6,990,698	7,359,947	7,331,655	7,560,314
<i>Export of services</i>	1,033,987	1,086,063	1,266,805	1,544,114	1,806,613	1,805,233	2,113,038	2,390,297
Primary income payable by non-residents	148,841	179,162	202,679	250,518	200,073	238,967	166,558	227,026
<i>Compensation of employees</i>	35,234	40,307	52,638	59,120	56,491	61,988	69,638	78,732
<i>Property income</i>	113,607	138,855	150,041	191,398	143,582	176,979	96,920	148,294
Secondary income payable by non-residents	273,807	278,492	419,537	483,419	435,079	401,941	358,452	373,628
Other current transfer	273,807	278,492	419,537	483,419	435,079	401,941	358,452	373,628
<i>Public</i>	2,737	2,818	3,592	5,214	3,120	3,497	2,190	2,950
<i>Private</i>	271,070	275,674	415,945	478,205	431,959	398,444	356,262	370,678
Balance on external income account	-765,276	-358,669	-292,790	51,652	134,623	-497,597	-1,103,130	-1,704,145

*Gross Domestic Product
Chain Volume Measures*

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

	(Millions of Baht)							
	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Private final consumption expenditure	5,125,442	5,639,212	5,988,244	6,544,061	6,746,876	6,933,442	7,012,564	7,260,409
General government final consumption expenditure	1,543,462	1,707,777	1,825,136	2,020,794	2,113,369	2,238,084	2,352,617	2,461,539
Gross fixed capital formation	2,232,017	2,593,167	2,921,293	3,335,697	3,278,326	3,262,778	3,369,941	3,484,345
Change in inventories	-238,816	147,418	107,991	127,344	267,804	-98,217	-304,605	-420,725
Plus : Exports of goods and services	6,223,910	7,185,923	8,011,498	8,619,919	8,797,311	9,165,180	9,444,693	9,950,611
<i>Exports of goods (f.o.b)</i>	5,189,923	6,099,860	6,744,693	7,075,805	6,990,698	7,359,947	7,331,655	7,560,314
<i>Exports of services</i>	1,033,987	1,086,063	1,266,805	1,544,114	1,806,613	1,805,233	2,113,038	2,390,297
Less : Imports of goods and services	5,295,925	6,567,498	7,781,469	8,492,424	8,432,453	8,270,441	7,861,679	7,804,665
<i>Imports of goods (f.o.b)</i>	4,117,143	5,259,458	6,376,152	7,073,389	6,977,230	6,801,008	6,407,028	6,270,835
<i>Imports of services</i>	1,178,782	1,308,040	1,405,317	1,419,035	1,455,223	1,469,433	1,454,651	1,533,830
Expenditure on gross domestic product	9,590,090	10,705,999	11,072,693	12,155,391	12,771,233	13,230,826	14,013,531	14,931,514
Plus : Statistical discrepancy	68,574	102,143	234,214	201,953	143,926	-523	-266,534	-398,049
Gross domestic product, (GDP)	9,658,664	10,808,142	11,306,907	12,357,344	12,915,159	13,230,303	13,746,997	14,533,465

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

	(Millions of Baht)							
	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Private final consumption expenditure	4,090,699	4,313,694	4,392,805	4,687,903	4,731,751	4,768,309	4,877,111	5,022,801
General government final consumption expenditure	1,152,699	1,255,683	1,302,439	1,395,850	1,417,379	1,457,177	1,493,465	1,526,504
Gross fixed capital formation	1,795,686	2,003,971	2,101,552	2,326,977	2,303,441	2,252,515	2,349,909	2,416,026
Change in inventories	-183,422	107,396	68,204	81,946	174,693	-63,572	-117,025	-347,639
Plus : Exports of goods and services	5,312,899	6,068,408	6,645,480	6,969,641	7,159,122	7,177,453	7,290,188	7,493,484
<i>Exports of goods (f.o.b)</i>	4,403,583	5,128,738	5,578,730	5,699,839	5,706,461	5,749,656	5,632,981	5,648,241
<i>Exports of services</i>	910,400	937,177	1,065,011	1,270,457	1,456,507	1,432,006	1,664,673	1,856,517
Less : Imports of goods and services	4,607,987	5,665,775	6,368,345	6,726,851	6,839,905	6,477,505	6,477,758	6,412,046
<i>Imports of goods (f.o.b)</i>	3,588,154	4,554,826	5,209,398	5,579,979	5,680,561	5,322,668	5,334,769	5,212,825
<i>Imports of services</i>	1,021,504	1,113,814	1,163,672	1,150,819	1,163,166	1,157,418	1,145,494	1,198,021
Expenditure on gross domestic product (sum up)	7,559,987	8,078,019	8,135,671	8,732,174	8,946,505	9,116,005	9,420,851	9,711,604
Residual (GDE (sum up) - GDE CVM)	-20,125	-74,498	-99,421	-113,538	-113,439	-45,407	-28,654	-63,158
% Residual (GDE sum up) to GDE CVM	-0.3	-0.9	-1.2	-1.3	-1.3	-0.5	-0.3	-0.6
Expenditure on gross domestic product	7,580,112	8,152,517	8,235,092	8,845,712	9,059,944	9,161,412	9,449,505	9,774,762
Gross domestic product, (GDP)	7,657,089	8,232,395	8,301,560	8,902,824	9,142,087	9,232,084	9,510,908	9,823,122

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)

	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Private final consumption expenditure	127.4	134.3	136.8	139.6	142.6	145.4	143.8	144.5
General government final consumption expenditure	151.7	165.2	171.4	144.8	149.1	153.6	157.5	161.3
Gross fixed capital formation	142.0	158.5	166.2	143.3	142.3	144.9	143.4	144.2
Change in inventories								
Plus : Exports of goods and services	151.8	173.4	189.9	123.7	122.9	127.7	129.6	132.8
<i>Exports of goods (f.o.b)</i>	155.2	180.7	196.6	124.1	122.5	128.0	130.2	133.9
<i>Exports of services</i>	137.7	141.7	161.0	121.5	124.0	126.1	126.9	128.8
Less : Imports of goods and services	147.0	180.8	203.2	126.2	123.3	127.7	121.4	121.7
<i>Imports of goods (f.o.b)</i>	146.8	186.3	213.1	126.8	122.8	127.8	120.1	120.3
<i>Imports of services</i>	148.1	161.5	168.7	123.3	125.1	127.0	127.0	128.0
Expenditure on gross domestic product	134.2	144.3	145.8	137.4	141.0	144.4	148.3	152.8
Gross domestic product, (GDP)	132.7	142.7	143.9	138.8	141.3	143.3	144.5	148.0

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

	2009	2010	2011	2012r	2013r	2014r	2015r	2016p	Percent
Private final consumption expenditure	-0.9	5.5	1.8	6.7	0.9	0.8	2.3	3.0	
General government final consumption expenditure	10.4	8.9	3.7	7.2	1.5	2.8	2.5	2.2	
Gross fixed capital formation	-10.9	11.6	4.9	10.7	-1.0	-2.2	4.3	2.8	
Change in inventories									
Plus : Exports of goods and services	-12.1	14.2	9.5	4.9	2.7	0.3	1.6	2.8	
<i>Exports of goods (f.o.b)</i>	-13.5	16.5	8.8	2.2	0.1	0.8	-2.0	0.3	
<i>Exports of services</i>	-5.2	2.9	13.6	19.3	14.6	-1.7	16.2	11.5	
Less : Imports of goods and services	-20.8	23.0	12.4	5.6	1.7	-5.3	0.0	-1.0	
<i>Imports of goods (f.o.b)</i>	-21.4	26.9	14.4	7.1	1.8	-6.3	0.2	-2.3	
<i>Imports of services</i>	-18.6	9.0	4.5	-1.1	1.1	-0.5	-1.0	4.6	
Expenditure on gross domestic product	-0.3	7.6	1.0	7.4	2.4	1.1	3.1	3.4	
Gross domestic product, (GDP)	-0.7	7.5	0.8	7.2	2.7	1.0	3.0	3.3	

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

	2009	2010	2011	2012r	2013r	2014r	2015r	2016p	Percent
Private final consumption expenditure	-0.5	2.9	1.0	3.6	0.5	0.4	1.2	1.5	
General government final consumption expenditure	1.5	1.4	0.6	1.2	0.3	0.5	0.4	0.4	
Gross fixed capital formation	-2.9	2.7	1.2	2.8	-0.3	-0.6	1.1	0.7	
Change in inventories	-4.2	3.9	-0.5	0.2	1.2	-2.8	-0.6	-1.6	
Plus : Exports of goods and services	-8.7	9.2	6.3	3.5	1.9	0.2	1.1	1.9	
<i>Exports of goods (f.o.b)</i>	-8.1	8.8	5.0	1.3	0.1	0.4	-1.1	0.1	
<i>Exports of services</i>	-0.6	0.3	1.4	2.2	1.8	-0.2	2.2	1.8	
Less : Imports of goods and services	-14.3	12.6	7.5	3.9	1.2	-3.5	0.0	-0.6	
<i>Imports of goods (f.o.b)</i>	-11.6	11.5	7.0	4.0	1.0	-3.4	0.1	-1.1	
<i>Imports of services</i>	-2.8	1.1	0.5	-0.1	0.1	-0.1	-0.1	0.5	
Expenditure on gross domestic product	-0.3	7.5	1.0	7.3	2.4	1.1	3.1	3.5	
Gross domestic product, (GDP)	-0.7	7.5	0.8	7.2	2.7	1.0	3.0	3.3	

*Gross Domestic Product
(Production)*

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

	(Millions of Baht)							
	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Agriculture	945,297	1,137,252	1,310,673	1,421,602	1,462,283	1,334,795	1,235,858	1,235,583
Agriculture, forestry and fishing	945,297	1,137,252	1,310,673	1,421,602	1,462,283	1,334,795	1,235,858	1,235,583
Non-agriculture	8,713,367	9,670,890	9,996,234	10,935,742	11,452,876	11,895,508	12,511,139	13,297,882
Mining and quarrying	326,742	366,998	400,576	483,427	496,562	495,627	431,425	398,582
Manufacturing	2,845,650	3,343,011	3,278,536	3,456,693	3,563,122	3,648,058	3,758,226	3,955,738
Electricity, gas, steam and air conditioning supply	249,252	264,283	270,494	291,725	313,431	331,412	343,199	372,457
Water supply; sewerage, waste management and remediation activities	36,174	37,712	38,292	41,888	47,609	51,722	55,333	58,460
Construction	271,258	302,792	306,622	340,956	344,786	337,043	379,940	402,916
Wholesale and retail trade; repair of motor vehicles and motorcycles	1,381,998	1,516,327	1,570,715	1,709,703	1,729,206	1,816,182	1,963,028	2,160,160
Transportation and storage	578,826	607,153	616,470	666,331	693,603	720,581	779,849	833,492
Accommodation and food service activities	285,443	311,910	349,523	413,291	472,928	497,777	600,218	700,843
Information and communication	208,273	222,201	242,816	265,239	290,854	301,427	327,058	340,292
Financial and insurance activities	553,900	580,532	644,682	744,615	871,377	961,260	1,037,951	1,118,062
Real estate activities	278,727	294,125	306,174	317,770	319,055	324,590	332,488	352,981
Professional, scientific and technical activities	170,202	195,594	214,438	258,785	266,926	267,745	261,393	258,489
Administrative and support service activities	155,876	171,745	189,205	227,941	234,426	231,496	237,026	242,969
Public administration and defence; compulsory social security	606,399	640,207	681,051	732,534	765,985	802,790	840,197	877,227
Education	393,674	417,863	454,248	503,346	528,167	565,146	592,287	616,205
Human health and social work activities	193,354	206,441	219,165	235,802	250,812	270,681	287,898	306,021
Arts, entertainment and recreation	36,523	44,516	50,656	60,357	65,422	65,640	70,145	81,156
Other service activities	123,726	129,574	142,068	162,716	175,308	181,557	185,669	193,729
Activities of households as employers	17,370	17,906	20,503	22,623	23,297	24,774	27,809	28,103
Gross domestic product, (GDP)	9,658,664	10,808,142	11,306,907	12,357,344	12,915,159	13,230,303	13,746,997	14,533,465
plus : Net primary income from the rest of the world	-338,463	-452,769	-272,711	-566,198	-825,489	-680,697	-708,973	-682,354
Gross national product, (GNP) ^{1/}	9,320,201	10,355,373	11,034,196	11,791,146	12,089,670	12,549,606	13,038,024	13,851,111
less : Consumption of fixed capital	1,486,739	1,590,776	1,738,526	1,958,158	2,084,525	2,214,196	2,342,578	2,480,248
Taxes on production and imports less subsidies	910,611	1,111,475	1,107,138	1,284,555	1,339,877	1,270,121	1,404,824	1,449,033
National income, (NI) ^{2/}	6,922,851	7,653,122	8,188,532	8,548,433	8,665,268	9,065,289	9,290,622	9,921,830
Per capita GDP (Baht)	147,364	163,956	170,763	185,847	193,471	197,458	204,459	215,454
Per capita GNP (Baht)	142,200	157,088	166,644	177,332	181,105	187,299	193,914	205,339
Per capita NI (Baht)	105,623	116,095	123,668	128,563	129,807	135,297	138,179	147,088
Population (1,000 Heads)	65,543	65,921	66,214	66,492	66,755	67,003	67,236	67,455

Note: 1/ GNP = GNI (Gross national income)

2/ NI = NNP (Net national product) at factor cost

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

	(Millions of Baht)							
	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Agriculture	944,437	1,138,880	1,320,175	1,432,087	1,473,403	1,350,216	1,247,799	1,249,709
Agriculture, forestry and fishing	944,437	1,138,880	1,320,175	1,432,087	1,473,403	1,350,216	1,247,799	1,249,709
Non-agriculture	7,803,616	8,557,787	8,879,594	9,640,702	10,101,879	10,609,966	11,094,374	11,834,723
Mining and quarrying	279,079	309,233	333,316	404,734	409,178	413,451	364,609	338,583
Manufacturing	2,400,392	2,807,841	2,828,043	2,948,468	3,028,467	3,171,404	3,151,817	3,326,187
Electricity, gas, steam and air conditioning supply	228,883	236,428	240,413	255,634	275,402	294,216	311,237	342,730
Water supply; sewerage, waste management and remediation activities	34,981	35,773	37,282	40,222	45,578	50,005	53,651	56,643
Construction	252,715	284,324	284,213	311,791	316,566	304,563	346,026	366,688
Wholesale and retail trade; repair of motor vehicles and motorcycles	1,146,164	1,224,166	1,233,603	1,287,403	1,339,604	1,429,304	1,569,585	1,741,561
Transportation and storage	573,463	599,260	607,285	655,375	680,226	710,558	770,163	820,534
Accommodation and food service activities	277,346	302,372	337,783	402,049	458,667	484,520	585,620	684,956
Information and communication	193,543	203,028	227,787	251,529	265,039	285,132	307,040	326,234
Financial and insurance activities	525,296	550,611	608,095	702,801	821,296	916,509	984,825	1,064,889
Real estate activities	258,273	251,662	250,267	254,284	245,462	239,352	254,789	275,944
Professional, scientific and technical activities	149,741	172,204	186,879	229,623	236,284	233,252	224,863	223,537
Administrative and support service activities	124,633	137,021	151,453	183,924	184,700	177,327	178,745	188,743
Public administration and defence; compulsory social security	606,399	640,207	681,051	732,534	765,985	802,790	840,197	877,227
Education	410,952	437,451	473,843	524,395	552,668	592,437	618,757	640,182
Human health and social work activities	192,208	205,274	217,864	234,416	249,362	269,170	286,314	304,219
Arts, entertainment and recreation	20,647	26,978	32,083	41,262	48,681	48,812	52,890	55,264
Other service activities	111,531	116,048	127,831	157,635	155,417	162,390	165,437	172,499
Activities of households as employers	17,370	17,906	20,503	22,623	23,297	24,774	27,809	28,103
Gross domestic product, (GDP)	8,748,053	9,696,667	10,199,769	11,072,789	11,575,282	11,960,182	12,342,173	13,084,432

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

	(Millions of Baht)							
	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Agriculture	603,412	600,651	638,483	655,755	660,365	658,463	617,175	602,000
Agriculture, forestry and fishing	603,412	600,651	638,483	655,755	660,365	658,463	617,175	602,000
Non-agriculture	7,061,105	7,652,694	7,667,868	8,268,856	8,512,404	8,609,788	8,959,571	9,304,503
Mining and quarrying	209,483	224,224	220,682	237,723	242,847	238,880	244,584	246,967
Manufacturing	2,277,687	2,537,476	2,414,078	2,581,224	2,629,739	2,630,599	2,672,136	2,732,087
Electricity, gas, steam and air conditioning supply	219,682	234,715	237,735	262,120	257,165	265,070	277,764	285,738
Water supply; sewerage, waste management and remediation activities	31,813	33,832	33,373	36,151	38,762	39,827	43,416	50,203
Construction	210,466	228,359	218,454	235,808	235,096	229,388	268,505	291,680
Wholesale and retail trade; repair of motor vehicles and motorcycles	1,106,520	1,207,295	1,207,515	1,270,509	1,280,405	1,270,240	1,331,423	1,402,873
Transportation and storage	454,011	489,186	497,067	538,898	566,731	584,019	608,120	633,119
Accommodation and food service activities	273,925	299,482	336,294	383,693	420,921	431,373	496,115	545,321
Information and communication	294,481	312,398	338,732	368,592	403,820	425,191	466,486	482,084
Financial and insurance activities	392,175	407,451	432,403	498,628	560,170	602,110	652,543	694,820
Real estate activities	295,289	308,305	319,237	328,441	331,764	339,123	344,219	368,187
Professional, scientific and technical activities	144,698	161,274	171,610	201,072	204,636	202,427	199,455	197,445
Administrative and support service activities	126,738	134,696	142,970	166,525	168,453	163,717	169,532	173,637
Public administration and defence; compulsory social security	438,333	456,059	473,339	492,985	495,464	502,006	505,185	507,416
Education	273,848	288,622	296,475	311,032	316,789	323,733	323,176	327,015
Human health and social work activities	158,044	166,532	174,525	184,775	191,676	202,001	208,202	213,641
Arts, entertainment and recreation	34,499	41,999	47,530	56,228	60,834	61,034	66,656	80,844
Other service activities	101,756	104,315	111,664	125,052	132,437	135,406	139,545	145,028
Activities of households as employers	17,961.0	17,636.0	18,689.0	19,117.0	17,731.0	16,946.0	17,580.0	17,563.0
Gross domestic product (sum up)	7,664,821	8,254,507	8,330,855	8,954,328	9,215,805	9,321,553	9,651,817	9,997,668
Residual (GDP (sum up) - GDP CVM)	7,732	22,112	29,295	51,504	73,718	89,469	140,909	174,546
% Residual (GDP sum up) to GDP CVM	0.1	0.3	0.4	0.6	0.8	1.0	1.5	1.8
Gross domestic product, (CVM)^{1/}	7,657,089	8,232,395	8,301,560	8,902,824	9,142,087	9,232,084	9,510,908	9,823,122
Gross national product (GNP), CVM 2/	7,393,503	7,891,410	8,107,064	8,507,160	8,573,605	8,776,268	9,029,964	9,361,203

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

2/ GNP = GNI (Gross national income)

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

	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Agriculture	120.3	119.8	127.3	130.8	131.7	131.3	123.1	120.0
Agriculture, forestry and fishing	120.3	119.8	127.3	130.8	131.7	131.3	123.1	120.0
Non-agriculture	134.0	145.3	145.6	157.0	161.6	163.4	170.1	176.6
Mining and quarrying	152.9	163.6	161.0	173.5	177.2	174.3	178.5	180.2
Manufacturing	138.4	154.2	146.7	156.9	159.8	159.9	162.4	166.1
Electricity, gas, steam and air conditioning supply	143.8	153.6	155.6	171.6	168.3	173.5	181.8	187.0
Water supply; sewerage, waste management and remediation activities	118.1	125.6	123.9	134.2	143.9	147.9	161.2	186.4
Construction	126.2	137.0	131.0	141.4	141.0	137.6	161.1	175.0
Wholesale and retail trade; repair of motor vehicles and motorcycles	122.2	133.3	133.3	140.3	141.4	140.3	147.0	154.9
Transportation and storage	121.7	131.1	133.2	144.5	151.9	156.6	163.0	169.7
Accommodation and food service activities	126.3	138.1	155.1	176.9	194.1	198.9	228.8	251.5
Information and communication	207.8	220.5	239.0	260.1	285.0	300.1	329.2	340.2
Financial and insurance activities	141.8	147.3	156.3	180.3	202.5	217.7	235.9	251.2
Real estate activities	128.4	134.0	138.8	142.8	144.2	147.4	149.6	160.1
Professional, scientific and technical activities	147.7	164.6	175.2	205.2	208.9	206.6	203.6	201.5
Administrative and support service activities	131.5	139.7	148.3	172.7	174.7	169.8	175.9	180.1
Public administration and defence; compulsory social security	128.7	133.9	139.0	144.7	145.5	147.4	148.3	149.0
Education	127.5	134.4	138.1	144.9	147.5	150.8	150.5	152.3
Human health and social work activities	132.7	139.8	146.5	155.1	160.9	169.6	174.8	179.3
Arts, entertainment and recreation	144.7	176.2	199.4	235.8	255.2	256.0	279.6	339.2
Other service activities	119.2	122.2	130.8	146.5	155.2	158.7	163.5	169.9
Activities of households as employers	102.0	100.2	106.1	108.6	100.7	96.2	99.8	99.7
Gross domestic product, (GDP)	132.7	142.7	143.9	154.3	158.5	160.0	164.8	170.8
Gross national product (GNP), CVM	132.8	141.8	145.6	152.8	154.0	157.7	162.2	168.2

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

	Percent							
	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Agriculture	-0.2	-0.5	6.3	2.7	0.7	-0.3	-6.3	-2.5
Agriculture, forestry and fishing	-0.2	-0.5	6.3	2.7	0.7	-0.3	-6.3	-2.5
Non-agriculture	-0.7	8.4	0.2	7.8	2.9	1.1	4.1	3.8
Mining and quarrying	1.2	7.0	-1.6	7.7	2.2	-1.6	2.4	1.0
Manufacturing	-3.3	11.4	-4.9	6.9	1.9	0.0	1.6	2.2
Electricity, gas, steam and air conditioning supply	4.5	6.8	1.3	10.3	-1.9	3.1	4.8	2.9
Water supply; sewerage, waste management and remediation activities	1.6	6.3	-1.4	8.3	7.2	2.7	9.0	15.6
Construction	3.6	8.5	-4.3	7.9	-0.3	-2.4	17.1	8.6
Wholesale and retail trade; repair of motor vehicles and motorcycles	-2.5	9.1	0.0	5.2	0.8	-0.8	4.8	5.4
Transportation and storage	-1.2	7.7	1.6	8.4	5.2	3.1	4.1	4.1
Accommodation and food service activities	-1.7	9.3	12.3	14.1	9.7	2.5	15.0	9.9
Information and communication	-0.6	6.1	8.4	8.8	9.6	5.3	9.7	3.3
Financial and insurance activities	11.2	3.9	6.1	15.3	12.3	7.5	8.4	6.5
Real estate activities	-4.2	4.4	3.5	2.9	1.0	2.2	1.5	7.0
Professional, scientific and technical activities	-11.5	11.5	6.4	17.2	1.8	-1.1	-1.5	-1.0
Administrative and support service activities	-8.7	6.3	6.1	16.5	1.2	-2.8	3.6	2.4
Public administration and defence; compulsory social security	3.8	4.0	3.8	4.2	0.5	1.3	0.6	0.4
Education	3.1	5.4	2.7	4.9	1.9	2.2	-0.2	1.2
Human health and social work activities	11.5	5.4	4.8	5.9	3.7	5.4	3.1	2.6
Arts, entertainment and recreation	-2.8	21.7	13.2	18.3	8.2	0.3	9.2	21.3
Other service activities	-6.3	2.5	7.0	12.0	5.9	2.2	3.1	3.9
Activities of households as employers	9.2	-1.8	6.0	2.3	-7.3	-4.4	3.7	-0.1
Gross domestic product, (GDP)	-0.7	7.5	0.8	7.2	2.7	1.0	3.0	3.3
Gross national product (GNP), CVM	-0.6	6.7	2.7	4.9	0.8	2.4	2.9	3.7

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

	Percent							
	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Agriculture	0.0	0.0	0.7	0.3	0.1	0.0	-0.6	-0.2
Agriculture, forestry and fishing	0.0	0.0	0.7	0.3	0.1	0.0	-0.6	-0.2
Non-agriculture	-0.7	7.6	0.2	6.9	2.6	1.0	3.7	3.5
Mining and quarrying	0.0	0.2	-0.1	0.3	0.1	-0.1	0.1	0.0
Manufacturing	-1.0	3.4	-1.5	2.0	0.5	0.0	0.4	0.6
Electricity, gas, steam and air conditioning supply	0.1	0.2	0.0	0.2	0.0	0.1	0.1	0.1
Water supply; sewerage, waste management and remediation activities	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Construction	0.1	0.2	-0.1	0.2	0.0	-0.1	0.4	0.2
Wholesale and retail trade; repair of motor vehicles and motorcycles	-0.3	1.3	0.0	0.7	0.1	-0.1	0.7	0.8
Transportation and storage	-0.1	0.5	0.1	0.5	0.3	0.2	0.2	0.2
Accommodation and food service activities	-0.1	0.3	0.4	0.4	0.3	0.1	0.6	0.4
Information and communication	0.0	0.1	0.2	0.2	0.2	0.1	0.2	0.1
Financial and insurance activities	0.6	0.2	0.3	0.9	0.7	0.5	0.6	0.5
Real estate activities	-0.1	0.1	0.1	0.1	0.0	0.1	0.0	0.2
Professional, scientific and technical activities	-0.2	0.2	0.1	0.3	0.0	0.0	0.0	0.0
Administrative and support service activities	-0.2	0.1	0.1	0.3	0.0	-0.1	0.1	0.0
Public administration and defence; compulsory social security	0.2	0.3	0.2	0.2	0.0	0.1	0.0	0.0
Education	0.1	0.2	0.1	0.2	0.1	0.1	0.0	0.1
Human health and social work activities	0.2	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	0.0	0.0	0.0	0.1
Other service activities	-0.1	0.0	0.1	0.2	0.1	0.0	0.0	0.1
Activities of households as employers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gross domestic product, (GDP)	-0.7	7.5	0.8	7.2	2.7	1.0	3.0	3.3

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

(Millions of Baht)

	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Crop and animal production, hunting and related service activities	835,078	1,027,244	1,191,369	1,298,258	1,349,641	1,213,571	1,121,447	1,108,919
Forestry and logging	7,876	8,624	9,322	10,283	9,901	11,269	11,573	12,630
Fishing and aquaculture	102,343	101,384	109,982	113,061	102,741	109,955	102,838	114,034
Total value added	945,297	1,137,252	1,310,673	1,421,602	1,462,283	1,334,795	1,235,858	1,235,583

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

(Millions of Baht)

	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Crop and animal production, hunting and related service activities	452,365	450,431	481,130	498,300	505,212	508,470	478,153	462,264
Forestry and logging	7,479	7,516	8,475	8,096	7,375	7,961	8,101	8,724
Fishing and aquaculture	149,733	148,571	149,331	140,311	131,494	113,953	101,998	107,937
Total value added	603,412	600,651	638,483	655,755	660,365	658,463	617,175	602,000

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)**

	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Crop and animal production, hunting and related service activities	117.1	116.6	124.5	129.0	130.8	131.6	123.8	119.7
Forestry and logging	111.0	111.6	125.8	120.2	109.5	118.2	120.2	129.5
Fishing and aquaculture	138.1	137.0	137.7	129.4	121.3	105.1	94.1	99.6
Total value added	120.3	119.8	127.3	130.8	131.7	131.3	123.1	120.0

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

Percent

	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Crop and animal production, hunting and related service activities	-0.4	-0.4	6.8	3.6	1.4	0.6	-6.0	-3.3
Forestry and logging	1.0	0.5	12.8	-4.5	-8.9	7.9	1.8	7.7
Fishing and aquaculture	0.9	-0.8	0.5	-6.0	-6.3	-13.3	-10.5	5.8
Total value added	-0.2	-0.5	6.3	2.7	0.7	-0.3	-6.3	-2.5

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

	(Millions of Baht)							
	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Mining of coal and lignite	12,073	13,844	15,359	12,874	12,938	12,744	11,368	13,407
Extraction of crude petroleum and natural gas	268,673	306,888	335,798	416,860	430,493	428,433	357,965	307,923
Mining of metal ores	5,367	5,768	5,052	7,238	6,113	6,545	4,180	5,302
Other mining and quarrying	40,629	40,498	44,367	46,455	47,018	47,905	57,912	71,950
Total value added	326,742	366,998	400,576	483,427	496,562	495,627	431,425	398,582

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

	(Millions of Baht)							
	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Mining of coal and lignite	6,483	6,655	7,681	6,505	6,545	6,509	5,470	6,310
Extraction of crude petroleum and natural gas	169,465	182,988	176,430	191,971	197,156	193,575	198,766	199,319
Mining of metal ores	1,708	1,574	1,170	1,601	1,568	1,668	1,131	1,343
Other mining and quarrying	28,722	29,890	33,244	34,626	34,054	33,613	36,761	37,194
Total value added	209,483	224,224	220,682	237,723	242,847	238,880	244,584	246,967

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)**

	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Mining of coal and lignite	86.7	89.0	102.7	87.0	87.5	87.1	73.2	84.4
Extraction of crude petroleum and natural gas	164.2	177.3	171.0	186.0	191.1	187.6	192.6	193.2
Mining of metal ores	76.1	70.1	52.1	71.3	69.8	74.3	50.4	59.8
Other mining and quarrying	119.1	123.9	137.8	143.5	141.2	139.3	152.4	154.2
Total value added	152.9	163.6	161.0	173.5	177.2	174.3	178.5	180.2

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

	Percent							
	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Mining of coal and lignite	-2.8	2.7	15.4	-15.3	0.6	-0.6	-16.0	15.4
Extraction of crude petroleum and natural gas	1.8	8.0	-3.6	8.8	2.7	-1.8	2.7	0.3
Mining of metal ores	14.6	-7.8	-25.7	36.8	-2.1	6.4	-32.2	18.7
Other mining and quarrying	-4.3	4.1	11.2	4.2	-1.7	-1.3	9.4	1.2
Total value added	1.2	7.0	-1.6	7.7	2.2	-1.6	2.4	1.0

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

	(Millions of Baht)							
	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Food products	437,075	494,965	556,940	511,169	520,315	526,674	524,110	588,325
Beverages	179,281	198,108	194,939	242,332	261,252	274,971	289,632	290,640
Tobacco products	48,174	58,201	60,642	59,704	60,050	58,198	56,423	51,654
Textiles	118,853	137,847	123,770	119,156	119,755	118,529	114,340	107,860
Wearing apparel	83,036	99,587	86,238	79,339	76,391	79,607	79,380	85,552
Leather and related products	36,278	39,608	39,697	34,762	39,854	43,441	41,036	42,201
Wood and products of wood and cork	27,879	31,894	35,582	37,100	38,593	42,553	43,293	47,084
Paper and paper products	46,898	52,620	51,271	52,461	50,821	52,178	52,401	53,699
Printing and reproduction of recorded media	10,809	11,280	11,564	12,057	11,841	11,552	11,477	11,619
Coke and refined petroleum products	198,541	223,908	187,741	203,996	237,021	269,519	306,070	394,877
Chemicals and chemical products	191,295	245,297	250,135	263,205	277,598	296,089	324,878	315,330
Basic pharmaceutical products and pharmaceutical preparations	24,092	23,731	25,452	27,946	31,973	33,838	35,567	38,747
Rubber and plastics products	170,680	223,826	238,103	249,528	250,830	245,173	264,774	282,269
Non-metallic mineral products	118,741	130,185	132,649	142,571	151,940	151,052	148,613	150,373
Basic metals	62,173	66,893	63,442	63,621	65,453	68,132	60,790	63,930
Fabricated metal products, except machinery and equipment	82,736	93,573	96,596	101,923	101,122	105,823	110,409	116,415
Computer, electronic and optical products	410,123	469,035	369,417	346,078	345,172	387,943	367,270	333,083
Electrical equipment	113,929	134,691	139,210	152,603	165,465	186,095	185,746	200,100
Machinery and equipment not elsewhere classified	114,950	135,032	140,816	146,023	151,677	149,263	160,330	163,229
Motor vehicles, trailers and semi-trailers	166,259	237,025	213,181	333,777	337,886	287,410	302,739	332,241
Other transport equipment	55,940	73,674	87,298	94,117	86,863	80,411	95,742	99,888
Furniture	31,394	33,038	30,230	30,471	32,119	31,788	33,203	32,969
Other manufacturing	115,250	127,774	142,227	151,243	147,576	146,173	148,187	151,704
Repair and installation of machinery and equipment	1,264	1,219	1,396	1,511	1,555	1,646	1,816	1,949
Total value added	2,845,650	3,343,011	3,278,536	3,456,693	3,563,122	3,648,058	3,758,226	3,955,738

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

	(Millions of Baht)							
	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Food products	284,336	295,200	319,071	330,926	326,661	335,690	332,318	338,188
Beverages	151,943	160,841	159,989	189,675	198,046	201,606	209,675	209,140
Tobacco products	31,143	34,739	36,151	35,615	35,862	34,690	33,708	30,826
Textiles	111,357	122,462	102,025	97,842	99,546	98,732	95,101	92,118
Wearing apparel	108,537	113,435	96,034	87,969	83,936	86,966	85,910	80,175
Leather and related products	35,311	37,107	36,349	33,277	37,059	40,113	37,822	38,992
Wood and products of wood and cork	21,573	25,433	27,789	28,343	29,563	32,403	32,634	35,413
Paper and paper products	44,355	46,720	45,091	45,756	43,998	45,463	45,580	46,411
Printing and reproduction of recorded media	8,996	9,289	8,858	8,721	8,499	8,306	7,894	7,644
Coke and refined petroleum products	119,221	122,178	105,820	110,645	113,893	117,393	126,539	127,718
Chemicals and chemical products	128,691	143,320	136,022	145,797	155,143	157,551	164,227	169,289
Basic pharmaceutical products and pharmaceutical preparations	23,181	22,707	24,252	26,652	30,338	32,124	33,746	36,749
Rubber and plastics products	113,805	126,932	121,360	137,671	143,344	145,817	155,091	158,873
Non-metallic mineral products	95,777	104,815	104,788	114,249	120,161	118,587	114,748	114,971
Basic metals	44,988	48,233	43,905	45,146	47,135	49,268	48,606	52,500
Fabricated metal products, except machinery and equipment	61,324	69,176	70,527	73,317	72,662	76,435	79,824	84,342
Computer, electronic and optical products	368,945	425,405	335,642	305,133	298,035	313,509	304,340	308,037
Electrical equipment	102,684	121,801	121,236	134,019	135,705	138,176	134,999	143,532
Machinery and equipment not elsewhere classified	106,081	123,009	125,100	132,769	137,651	134,931	140,454	142,603
Motor vehicles, trailers and semi-trailers	154,516	218,118	197,554	298,801	310,248	254,144	266,294	287,493
Other transport equipment	53,952	72,228	85,301	89,809	84,412	77,055	79,725	85,501
Furniture	24,040	25,516	23,564	23,590	24,648	24,174	25,046	24,828
Other manufacturing	74,149	75,956	74,854	76,451	78,849	79,448	81,311	81,613
Repair and installation of machinery and equipment	1,176	1,119	1,269	1,362	1,384	1,450	1,584	1,683
Total value added	2,277,687	2,537,476	2,414,078	2,581,224	2,629,739	2,630,599	2,672,136	2,732,087

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)

	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Food products	129.8	134.8	145.6	151.1	149.1	153.2	151.7	154.4
Beverages	134.2	142.0	141.3	167.5	174.9	178.0	185.2	184.7
Tobacco products	90.0	100.4	104.5	102.9	103.7	100.3	97.4	89.1
Textiles	94.5	104.0	86.6	83.1	84.5	83.8	80.7	78.2
Wearing apparel	106.4	111.1	94.1	86.2	82.2	85.2	84.2	78.6
Leather and related products	95.3	100.1	98.1	89.8	100.0	108.3	102.1	105.2
Wood and products of wood and cork	110.5	130.3	142.4	145.2	151.5	166.0	167.2	181.4
Paper and paper products	115.4	121.6	117.4	119.1	114.5	118.3	118.6	120.8
Printing and reproduction of recorded media	113.6	117.3	111.8	110.1	107.3	104.9	99.7	96.5
Coke and refined petroleum products	100.3	102.8	89.0	93.1	95.8	98.7	106.4	107.4
Chemicals and chemical products	150.3	167.4	158.9	170.3	181.2	184.0	191.8	197.7
Basic pharmaceutical products and pharmaceutical preparations	121.1	118.6	126.7	139.2	158.5	167.8	176.3	192.0
Rubber and plastics products	126.0	140.6	134.4	152.5	158.7	161.5	171.8	175.9
Non-metallic mineral products	119.2	130.4	130.4	142.1	149.5	147.5	142.8	143.0
Basic metals	101.7	109.0	99.2	102.0	106.5	111.3	109.8	118.6
Fabricated metal products, except machinery and equipment	101.0	113.9	116.2	120.8	119.7	125.9	131.5	138.9
Computer, electronic and optical products	302.2	348.5	274.9	250.0	244.1	256.8	249.3	252.3
Electrical equipment	159.4	189.1	188.2	208.1	210.7	214.5	209.6	222.8
Machinery and equipment not elsewhere classified	189.4	219.6	223.4	237.1	245.8	240.9	250.8	254.6
Motor vehicles, trailers and semi-trailers	179.9	253.9	230.0	347.8	361.1	295.8	310.0	334.7
Other transport equipment	133.5	178.7	211.1	222.2	208.9	190.7	197.3	211.6
Furniture	127.7	135.5	125.2	125.3	130.9	128.4	133.0	131.9
Other manufacturing	109.3	111.9	110.3	112.7	116.2	117.1	119.8	120.3
Repair and installation of machinery and equipment	159.1	151.4	171.7	184.3	187.3	196.2	214.3	227.7
Total value added	138.4	154.2	146.7	156.9	159.8	159.9	162.4	166.1

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

	Percent							
	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Food products	-1.7	3.8	8.1	3.7	-1.3	2.8	-1.0	1.8
Beverages	-3.9	5.9	-0.5	18.6	4.4	1.8	4.0	-0.3
Tobacco products	-8.6	11.5	4.1	-1.5	0.7	-3.3	-2.8	-8.5
Textiles	-6.5	10.0	-16.7	-4.1	1.7	-0.8	-3.7	-3.1
Wearing apparel	-8.2	4.5	-15.3	-8.4	-4.6	3.6	-1.2	-6.7
Leather and related products	-5.9	5.1	-2.0	-8.5	11.4	8.2	-5.7	3.1
Wood and products of wood and cork	-3.4	17.9	9.3	2.0	4.3	9.6	0.7	8.5
Paper and paper products	0.4	5.3	-3.5	1.5	-3.8	3.3	0.3	1.8
Printing and reproduction of recorded media	-11.4	3.3	-4.6	-1.5	-2.5	-2.3	-5.0	-3.2
Coke and refined petroleum products	8.2	2.5	-13.4	4.6	2.9	3.1	7.8	0.9
Chemicals and chemical products	20.0	11.4	-5.1	7.2	6.4	1.6	4.2	3.1
Basic pharmaceutical products and pharmaceutical preparations	-2.8	-2.0	6.8	9.9	13.8	5.9	5.0	8.9
Rubber and plastics products	-6.1	11.5	-4.4	13.4	4.1	1.7	6.4	2.4
Non-metallic mineral products	-4.8	9.4	0.0	9.0	5.2	-1.3	-3.2	0.2
Basic metals	-10.2	7.2	-9.0	2.8	4.4	4.5	-1.3	8.0
Fabricated metal products, except machinery and equipment	-16.5	12.8	2.0	4.0	-0.9	5.2	4.4	5.7
Computer, electronic and optical products	1.2	15.3	-21.1	-9.1	-2.3	5.2	-2.9	1.2
Electrical equipment	-5.3	18.6	-0.5	10.5	1.3	1.8	-2.3	6.3
Machinery and equipment not elsewhere classified	-10.1	16.0	1.7	6.1	3.7	-2.0	4.1	1.5
Motor vehicles, trailers and semi-trailers	-23.1	41.2	-9.4	51.3	3.8	-18.1	4.8	8.0
Other transport equipment	-25.8	33.9	18.1	5.3	-6.0	-8.7	3.5	7.2
Furniture	3.8	6.1	-7.7	0.1	4.5	-1.9	3.6	-0.9
Other manufacturing	7.3	2.4	-1.5	2.1	3.1	0.8	2.3	0.4
Repair and installation of machinery and equipment	14.6	-4.8	13.4	7.3	1.6	4.8	9.2	6.3
Total value added	-3.3	11.4	-4.9	6.9	1.9	0.0	1.6	2.2

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

(Millions of Baht)

	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Electric power generation, transmission and distribution	229,797	244,427	236,559	267,864	292,649	305,348	320,459	342,011
Manufacture of gas; distribution of gaseous fuels through mains	19,455	19,856	33,935	23,861	20,782	26,064	22,740	30,446
Total value added	249,252	264,283	270,494	291,725	313,431	331,412	343,199	372,457

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

(Millions of Baht)

	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Electric power generation, transmission and distribution	204,016	219,992	219,491	243,655	240,846	247,987	258,287	263,745
Manufacture of gas; distribution of gaseous fuels through mains	12,740	12,126	14,543	15,272	13,719	14,351	16,106	18,289
Total value added	219,682	234,715	237,735	262,120	257,165	265,070	277,764	285,738

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)**

	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Electric power generation, transmission and distribution	139.5	150.4	150.0	166.6	164.6	169.5	176.6	180.3
Manufacture of gas; distribution of gaseous fuels through mains	196.6	187.2	224.5	235.7	211.7	221.5	248.6	282.3
Total value added	143.8	153.6	155.6	171.6	168.3	173.5	181.8	187.0

**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

	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Electric power generation, transmission and distribution	3.2	7.8	-0.2	11.0	-1.2	3.0	4.2	2.1
Manufacture of gas; distribution of gaseous fuels through mains	13.9	-4.8	19.9	5.0	-10.2	4.6	12.2	13.6
Total value added	4.5	6.8	1.3	10.3	-1.9	3.1	4.8	2.9

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

(Millions of Baht)

	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Water collection and supply	31,189	32,285	32,792	35,219	39,409	41,824	43,758	45,074
Waste collection, treatment and disposal activities; materials recovery	4,985	5,427	5,500	6,669	8,200	9,898	11,575	13,386
Total value added	36,174	37,712	38,292	41,888	47,609	51,722	55,333	58,460

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

(Millions of Baht)

	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Water collection and supply	27,158	28,694	28,309	30,021	31,183	31,024	33,296	38,454
Waste collection, treatment and disposal activities; materials recovery	4,606	5,098	5,024	6,125	7,650	9,058	10,520	12,221
Total value added	31,813	33,832	33,373	36,151	38,762	39,827	43,416	50,203

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)

	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Water collection and supply	113.2	119.6	118.0	125.2	130.0	129.3	138.8	160.3
Waste collection, treatment and disposal activities; materials recovery	156.0	172.7	170.2	207.5	259.1	306.8	356.4	414.0
Total value added	118.1	125.6	123.9	134.2	143.9	147.9	161.2	186.4

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

	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Water collection and supply	0.4	5.7	-1.3	6.0	3.9	-0.5	7.3	15.5
Waste collection, treatment and disposal activities; materials recovery	8.5	10.7	-1.5	21.9	24.9	18.4	16.1	16.2
Total value added	1.6	6.3	-1.4	8.3	7.2	2.7	9.0	15.6

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

	(Millions of Baht)							
	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Private construction	114,446	131,150	147,342	163,217	172,500	165,642	162,381	160,680
Public construction	156,812	171,642	159,280	177,739	172,286	171,401	217,559	242,236
Total value added	271,258	302,792	306,622	340,956	344,786	337,043	379,940	402,916

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

	(Millions of Baht)							
	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Private construction	90,658	100,082	106,988	114,821	119,020	114,525	115,490	116,985
Public construction	118,854	127,316	110,862	120,308	115,572	114,325	151,730	173,134
Total value added	210,466	228,359	218,454	235,808	235,096	229,388	268,505	291,680

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)**

	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Private construction	137.74	152.06	162.56	174.46	180.84	174.01	175.47	177.75
Public construction	117.79	126.18	109.87	119.23	114.54	113.30	150.37	171.59
Total value added	126.24	136.97	131.03	141.44	141.01	137.59	161.05	174.95

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

	Percent							
	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Private construction	-5.6	10.4	6.9	7.3	3.7	-3.8	0.8	1.3
Public construction	11.0	7.1	-12.9	8.5	-3.9	-1.1	32.7	14.1
Total value added	3.6	8.5	-4.3	7.9	-0.3	-2.4	17.1	8.6

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

	(Millions of Baht)							
	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Trade and repair of motor vehicles and motorcycles	125,406	145,688	143,287	174,191	165,227	154,973	157,171	168,250
Trade, except of motor vehicles and motorcycles	1,256,592	1,370,639	1,427,428	1,535,512	1,563,979	1,661,209	1,805,857	1,991,910
Total value added	1,381,998	1,516,327	1,570,715	1,709,703	1,729,206	1,816,182	1,963,028	2,160,160

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

	(Millions of Baht)							
	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Trade and repair of motor vehicles and motorcycles	126,423	140,147	132,319	168,819	169,863	158,580	161,921	168,425
Trade, except of motor vehicles and motorcycles	980,411	1,067,990	1,074,546	1,106,475	1,115,297	1,113,335	1,169,774	1,233,923
Total value added	1,106,520	1,207,295	1,207,515	1,270,509	1,280,405	1,270,240	1,331,423	1,402,873

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)

	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Trade and repair of motor vehicles and motorcycles	146.4	162.2	153.2	195.4	196.6	183.6	187.5	195.0
Trade, except of motor vehicles and motorcycles	119.7	130.4	131.2	135.1	136.1	135.9	142.8	150.6
Total value added	122.2	133.3	133.3	140.3	141.4	140.3	147.0	154.9

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

	Percent							
	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Trade and repair of motor vehicles and motorcycles	3.1	10.9	-5.6	27.6	0.6	-6.6	2.1	4.0
Trade, except of motor vehicles and motorcycles	-3.1	8.9	0.6	3.0	0.8	-0.2	5.1	5.5
Total value added	-2.5	9.1	0.0	5.2	0.8	-0.8	4.8	5.4

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

	(Millions of Baht)							
	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Land transport and transport via pipelines	256,551	252,338	261,560	273,405	273,097	294,872	312,452	326,193
Water transport	106,564	112,663	115,418	119,717	127,987	135,351	147,695	157,001
Air transport	112,989	124,079	115,781	130,506	135,154	129,037	145,064	160,967
Warehousing and support activities for transportation	84,746	96,258	102,701	120,503	134,067	136,277	148,819	160,601
Postal and courier activities	17,976	21,815	21,010	22,200	23,298	25,044	25,819	28,730
Total value added	578,826	607,153	616,470	666,331	693,603	720,581	779,849	833,492

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

	(Millions of Baht)							
	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Land transport and transport via pipelines	179,741	180,348	185,604	195,125	196,278	203,521	195,721	196,033
Water transport	83,857	88,433	92,391	95,798	101,382	107,924	114,692	123,438
Air transport	106,757	128,031	124,051	143,843	156,434	156,646	175,950	194,238
Warehousing and support activities for transportation	65,118	74,557	76,285	86,665	96,085	96,787	108,668	111,586
Postal and courier activities	12,779	15,170	14,482	15,694	16,619	17,800	17,743	18,583
Total value added	454,011	489,186	497,067	538,898	566,731	584,019	608,120	633,119

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)**

	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Land transport and transport via pipelines	103.7	104.0	107.1	112.5	113.2	117.4	112.9	113.1
Water transport	171.5	180.9	189.0	196.0	207.4	220.8	234.6	252.5
Air transport	110.3	132.3	128.2	148.6	161.6	161.8	181.8	200.7
Warehousing and support activities for transportation	144.7	165.7	169.6	192.6	213.6	215.1	241.5	248.0
Postal and courier activities	142.1	168.6	161.0	174.5	184.8	197.9	197.3	206.6
Total value added	121.7	131.1	133.2	144.5	151.9	156.6	163.0	169.7

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

	Percent							
	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Land transport and transport via pipelines	-1.4	0.3	2.9	5.1	0.6	3.7	-3.8	0.2
Water transport	5.2	5.5	4.5	3.7	5.8	6.5	6.3	7.6
Air transport	-5.5	19.9	-3.1	16.0	8.8	0.1	12.3	10.4
Warehousing and support activities for transportation	-1.9	14.5	2.3	13.6	10.9	0.7	12.3	2.7
Postal and courier activities	-4.6	18.7	-4.5	8.4	5.9	7.1	-0.3	4.7
Total value added	-1.2	7.7	1.6	8.4	5.2	3.1	4.1	4.1

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

(Millions of Baht)

	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Accommodation	96,789	111,790	141,309	172,636	203,553	207,497	265,728	313,588
Food and beverage service activities	188,654	200,120	208,214	240,655	269,375	290,280	334,490	387,255
Total value added	285,443	311,910	349,523	413,291	472,928	497,777	600,218	700,843

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

(Millions of Baht)

	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Accommodation	94,515	108,535	139,677	172,439	194,769	201,348	244,609	266,833
Food and beverage service activities	179,435	191,110	197,092	212,350	228,004	232,125	256,214	283,322
Total value added	273,925	299,482	336,294	383,693	420,921	431,373	496,115	545,321

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)**

	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Accommodation	118.7	136.3	175.4	216.6	244.6	252.9	307.2	335.1
Food and beverage service activities	130.8	139.3	143.6	154.8	166.2	169.2	186.7	206.5
Total value added	126.3	138.1	155.1	176.9	194.1	198.9	228.8	251.5

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

Percent

	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Accommodation	-1.1	14.8	28.7	23.5	12.9	3.4	21.5	9.1
Food and beverage service activities	-2.0	6.5	3.1	7.7	7.4	1.8	10.4	10.6
Total value added	-1.7	9.3	12.3	14.1	9.7	2.5	15.0	9.9

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

	(Millions of Baht)							
	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Publishing activities	11,959	12,324	12,630	13,537	14,417	14,455	16,396	17,751
Motion picture, video and television programme production, sound recording and music publishing activities	4,782	5,490	6,086	6,633	7,454	7,645	8,630	8,753
Programming and broadcasting activities	21,034	22,570	24,581	24,886	27,614	27,594	27,844	27,229
Telecommunications	129,754	135,466	145,076	157,798	164,889	166,270	179,125	186,322
Computer programming, consultancy and related activities	39,017	44,771	52,612	60,609	74,194	82,788	92,046	96,773
Information service activities	1,727	1,580	1,831	1,776	2,286	2,675	3,017	3,464
Total value added	208,273	222,201	242,816	265,239	290,854	301,427	327,058	340,292

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

	(Millions of Baht)							
	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Publishing activities	11,749	12,216	12,550	12,474	12,875	12,862	14,502	15,673
Motion picture, video and television programme production, sound recording and music publishing activities	3,818	4,226	4,494	4,778	5,351	5,431	6,150	6,183
Programming and broadcasting activities	17,021	17,699	18,578	18,244	19,823	19,449	19,810	19,337
Telecommunications	244,343	257,207	277,532	307,507	325,932	342,511	374,265	385,216
Computer programming, consultancy and related activities	32,321	35,813	40,639	45,260	54,259	59,445	66,713	70,009
Information service activities	1,426	1,263	1,412	1,326	1,670	1,919	2,185	2,503
Total value added	294,481	312,398	338,732	368,592	403,820	425,191	466,486	482,084

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)**

	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Publishing activities	109.4	113.8	116.9	116.2	119.9	119.8	135.1	146.0
Motion picture, video and television programme production, sound recording and music publishing activities	82.1	90.9	96.6	102.8	115.1	116.8	132.3	133.0
Programming and broadcasting activities	114.7	119.3	125.2	123.0	133.6	131.1	133.5	130.3
Telecommunications	252.0	265.3	286.2	317.1	336.1	353.2	386.0	397.3
Computer programming, consultancy and related activities	234.6	260.0	295.0	328.6	393.9	431.5	484.3	508.2
Information service activities	190.1	168.4	188.3	176.8	222.7	255.9	291.3	333.7
Total value added	207.8	220.5	239.0	260.1	285.0	300.0	329.2	340.2

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

	Percent							
	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Publishing activities	-3.8	4.0	2.7	-0.6	3.2	-0.1	12.8	8.1
Motion picture, video and television programme production, sound recording and music publishing activities	-1.5	10.7	6.3	6.3	12.0	1.5	13.2	0.5
Programming and broadcasting activities	2.7	4.0	5.0	-1.8	8.7	-1.9	1.9	-2.4
Telecommunications	0.9	5.3	7.9	10.8	6.0	5.1	9.3	2.9
Computer programming, consultancy and related activities	-6.6	10.8	13.5	11.4	19.9	9.6	12.2	4.9
Information service activities	8.1	-11.4	11.8	-6.1	25.9	14.9	13.9	14.6
Total value added	-0.6	6.1	8.4	8.8	9.6	5.3	9.7	3.3

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

(Millions of Baht)

	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Financial service activities	431,141	467,331	522,075	605,715	694,738	766,535	825,885	869,497
Insurance, reinsurance and pension funding	97,927	86,293	94,181	109,289	133,372	154,535	172,009	204,978
Activities auxiliary to financial service and insurance activities	24,832	26,908	28,426	29,611	43,267	40,190	40,057	43,587
Total value added	553,900	580,532	644,682	744,615	871,377	961,260	1,037,951	1,118,062

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

(Millions of Baht)

	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Financial service activities	289,774	313,112	333,645	389,034	426,102	455,833	492,151	510,725
Insurance, reinsurance and pension funding	79,562	67,887	71,373	80,302	96,031	110,514	124,230	147,790
Activities auxiliary to financial service and insurance activities	20,176	21,169	21,543	21,758	31,145	28,734	28,922	31,419
Total value added	392,175	407,451	432,403	498,628	560,170	602,110	652,543	694,820

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)**

	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Financial service activities	139.42	150.65	160.53	187.18	205.02	219.32	236.80	245.73
Insurance, reinsurance and pension funding	151.62	129.37	136.01	153.03	183.00	210.60	236.74	281.64
Activities auxiliary to financial service and insurance activities	123.73	129.82	132.11	133.43	190.99	176.21	177.36	192.67
Total value added	141.77	147.30	156.32	180.26	202.51	217.67	235.90	251.18

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

Percent

	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Financial service activities	10.1	8.1	6.6	16.6	9.5	7.0	8.0	3.8
Insurance, reinsurance and pension funding	20.9	-14.7	5.1	12.5	19.6	15.1	12.4	19.0
Activities auxiliary to financial service and insurance activities	-1.0	4.9	1.8	1.0	43.1	-7.7	0.7	8.6
Total value added	11.2	3.9	6.1	15.3	12.3	7.5	8.4	6.5

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

	(Millions of Baht)							
	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Real estate activities with own or leased property	259,736	267,449	272,667	279,198	280,267	288,137	296,244	314,653
Real estate activities on a fee or contract basis	18,991	26,676	33,507	38,572	38,788	36,453	36,244	38,328
Total value added	278,727	294,125	306,174	317,770	319,055	324,590	332,488	352,981

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

	(Millions of Baht)							
	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Real estate activities with own or leased property	280,877	286,853	291,938	297,340	301,213	311,926	317,021	339,117
Real estate activities on a fee or contract basis	15,731	21,331	25,879	28,800	28,483	26,360	26,484	28,313
Total value added	295,289	308,305	319,237	328,441	331,764	339,123	344,219	368,187

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)**

	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Real estate activities with own or leased property	129.9	132.7	135.0	137.5	139.3	144.3	146.6	156.9
Real estate activities on a fee or contract basis	113.7	154.1	187.0	208.1	205.8	190.4	191.3	204.6
Total value added	128.4	134.0	138.8	142.8	144.2	147.4	149.6	160.1

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

	Percent							
	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Real estate activities with own or leased property	-3.9	2.1	1.8	1.9	1.3	3.6	1.6	7.0
Real estate activities on a fee or contract basis	-8.8	35.6	21.3	11.3	-1.1	-7.5	0.5	6.9
Total value added	-4.2	4.4	3.5	2.9	1.0	2.2	1.5	7.0

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

	(Millions of Baht)							
	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Legal and accounting activities	9,160	9,851	11,009	11,368	11,202	12,464	13,458	14,991
Activities of head offices; management consultancy activities	125,249	145,081	151,467	176,407	185,227	185,916	178,133	176,075
Architectural and engineering activities; technical testing and analysis	10,746	12,305	14,454	16,975	17,098	16,647	17,097	17,385
Scientific research and development	4,894	5,970	13,525	26,137	25,809	25,370	24,257	23,950
Advertising and market research	9,066	10,473	11,491	12,354	12,907	13,398	13,478	13,178
Other professional, scientific and technical activities	10,866	11,653	12,185	15,158	14,292	13,444	14,351	12,144
Veterinary activities	221	261	307	386	391	506	619	766
Total value added	170,202	195,594	214,438	258,785	266,926	267,745	261,393	258,489

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

	(Millions of Baht)							
	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Legal and accounting activities	7,588	7,880	8,504	8,489	8,235	9,023	9,847	10,973
Activities of head offices; management consultancy activities	103,755	116,052	116,997	131,730	136,107	134,535	130,286	128,860
Architectural and engineering activities; technical testing and analysis	8,902	9,843	11,164	12,676	12,560	12,044	12,502	12,720
Scientific research and development	4,058	4,780	10,458	19,538	18,975	18,369	17,752	17,537
Advertising and market research	7,509	8,376	8,873	9,222	9,486	9,697	9,859	9,646
Other professional, scientific and technical activities	14,389	15,989	17,586	22,686	22,103	21,050	22,138	18,928
Veterinary activities	203	240	281	350	356	456	548	673
Total value added	144,698	161,274	171,610	201,072	204,636	202,427	199,455	197,445

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)**

	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Legal and accounting activities	110.7	115.0	124.1	123.8	120.1	131.6	143.6	160.1
Activities of head offices; management consultancy activities	140.0	156.6	157.9	177.7	183.6	181.5	175.8	173.9
Architectural and engineering activities; technical testing and analysis	147.7	163.3	185.2	210.3	208.4	199.8	207.4	211.0
Scientific research and development	985.0	1,160.2	2,538.3	4,742.2	4,605.6	4,458.5	4,308.7	4,256.6
Advertising and market research	123.3	137.5	145.7	151.4	155.7	159.2	161.9	158.4
Other professional, scientific and technical activities	333.3	370.4	407.4	525.5	512.0	487.6	512.8	438.5
Veterinary activities	134.4	158.9	186.1	231.8	235.8	302.0	362.9	445.7
Total value added	147.7	164.6	175.2	205.2	208.9	206.6	203.6	201.5

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

	Percent							
	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Legal and accounting activities	-0.2	3.8	7.9	-0.2	-3.0	9.6	9.1	11.4
Activities of head offices; management consultancy activities	-13.8	11.9	0.8	12.6	3.3	-1.2	-3.2	-1.1
Architectural and engineering activities; technical testing and analysis	-5.9	10.6	13.4	13.5	-0.9	-4.1	3.8	1.7
Scientific research and development	8.4	17.8	118.8	86.8	-2.9	-3.2	-3.4	-1.2
Advertising and market research	-8.5	11.5	5.9	3.9	2.9	2.2	1.7	-2.2
Other professional, scientific and technical activities	-8.2	11.1	10.0	29.0	-2.6	-4.8	5.2	-14.5
Veterinary activities	18.7	18.2	17.1	24.6	1.7	28.1	20.2	22.8
Total value added	-11.5	11.5	6.4	17.2	1.8	-1.1	-1.5	-1.0

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

	(Millions of Baht)							
	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Rental and leasing activities	55,834	59,142	67,192	78,521	80,993	75,325	74,729	74,223
Employment activities	4,798	5,880	7,547	9,414	10,021	10,262	11,397	12,162
Travel agency, tour operator, reservation service and related activities	21,087	23,979	28,025	33,251	37,159	37,028	40,675	44,524
Security and investigation activities	7,422	8,080	9,407	11,259	12,031	12,689	13,932	15,143
Services to buildings and landscape activities	11,552	12,367	13,830	15,449	16,633	17,035	17,713	19,308
Office administrative, office support and other business support activities	55,183	62,297	63,204	80,047	77,589	79,157	78,580	77,609
Total value added	155,876	171,745	189,205	227,941	234,426	231,496	237,026	242,969

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

	(Millions of Baht)							
	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Rental and leasing activities	46,251	47,308	51,901	58,634	59,506	54,507	54,653	54,314
Employment activities	3,975	4,704	5,830	7,030	7,368	7,431	8,341	8,904
Travel agency, tour operator, reservation service and related activities	15,271	16,638	18,495	21,228	23,250	22,709	25,310	27,516
Security and investigation activities	6,146	6,461	7,263	8,403	8,840	9,183	10,190	11,080
Services to buildings and landscape activities	9,561	9,883	10,672	11,522	12,214	12,324	12,952	14,123
Office administrative, office support and other business support activities	45,708	49,828	48,816	59,770	57,036	57,313	57,503	56,824
Total value added	126,738	134,696	142,970	166,525	168,453	163,717	169,532	173,637

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)**

	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Rental and leasing activities	121.5	124.3	136.3	154.0	156.3	143.2	143.6	142.7
Employment activities	196.7	232.8	288.5	347.8	364.6	367.7	412.7	440.6
Travel agency, tour operator, reservation service and related activities	101.4	110.5	122.8	141.0	154.4	150.8	168.1	182.7
Security and investigation activities	203.4	213.8	240.3	278.1	292.5	303.9	337.2	366.6
Services to buildings and landscape activities	146.6	151.6	163.7	176.7	187.3	189.0	198.7	216.6
Office administrative, office support and other business support activities	144.2	157.2	154.0	188.5	179.9	180.8	181.4	179.2
Total value added	131.5	139.7	148.3	172.7	174.7	169.8	175.9	180.1

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

	Percent							
	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Rental and leasing activities	-2.0	2.3	9.7	13.0	1.5	-8.4	0.3	-0.6
Employment activities	-12.7	18.3	23.9	20.6	4.8	0.9	12.2	6.7
Travel agency, tour operator, reservation service and related activities	-14.9	9.0	11.2	14.8	9.5	-2.3	11.5	8.7
Security and investigation activities	-4.8	5.1	12.4	15.7	5.2	3.9	11.0	8.7
Services to buildings and landscape activities	-8.1	3.4	8.0	8.0	6.0	0.9	5.1	9.0
Office administrative, office support and other business support activities	-12.5	9.0	-2.0	22.4	-4.6	0.5	0.3	-1.2
Total value added	-8.7	6.3	6.1	16.5	1.2	-2.8	3.6	2.4

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

(Millions of Baht)

	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Creative, arts and entertainment activities	1,255	1,392	1,627	1,870	2,129	2,020	2,205	2,117
Libraries, archives, museums and other cultural activities	162	193	215	261	267	324	387	415
Gambling and betting activities	19,800	26,599	31,765	38,184	38,867	38,713	38,570	48,194
Sport activities and amusement and recreation activities	15,306	16,332	17,049	20,042	24,159	24,583	28,983	30,430
Total value added	36,523	44,516	50,656	60,357	65,422	65,640	70,145	81,156

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

(Millions of Baht)

	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Creative, arts and entertainment activities	1,205	1,340	1,565	1,794	2,043	1,932	2,106	2,021
Libraries, archives, museums and other cultural activities	195	243	271	324	325	399	467	497
Gambling and betting activities	16,019	20,859	24,009	27,995	27,888	27,266	28,561	38,507
Sport activities and amusement and recreation activities	19,450	21,708	23,821	29,014	36,010	37,706	43,799	46,162
Total value added	34,499	41,999	47,530	56,228	60,834	61,034	66,656	80,844

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)**

	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Creative, arts and entertainment activities	193.1	214.7	250.8	287.5	327.4	309.6	337.5	323.9
Libraries, archives, museums and other cultural activities	57.4	71.5	79.7	95.3	95.6	117.4	137.4	146.2
Gambling and betting activities	127.4	165.9	191.0	222.7	221.8	216.9	227.2	306.3
Sport activities and amusement and recreation activities	188.8	210.7	231.2	281.6	349.5	365.9	425.1	448.0
Total value added	144.7	176.2	199.4	235.8	255.2	256.0	279.6	339.1

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

Percent

	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Creative, arts and entertainment activities	(3.98)	11.20	16.79	14.63	13.88	(5.43)	9.01	(4.04)
Libraries, archives, museums and other cultural activities	15.38	24.62	11.52	19.56	0.31	22.77	17.04	6.42
Gambling and betting activities	(5.53)	30.21	15.10	16.60	(0.38)	(2.23)	4.75	34.82
Sport activities and amusement and recreation activities	0.94	11.61	9.73	21.80	24.11	4.71	16.16	5.40
Total value added	(2.78)	21.74	13.17	18.30	8.19	0.33	9.21	21.29

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

(Millions of Baht)

	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Activities of membership organizations	21,533	18,662	20,652	25,008	27,297	28,086	28,759	29,155
Repair of computers and personal and household goods	52,707	57,846	64,789	75,152	79,556	82,241	83,900	88,031
Other personal service activities	49,486	53,066	56,627	62,556	68,455	71,230	73,010	76,543
Total value added	123,726	129,574	142,068	162,716	175,308	181,557	185,669	193,729

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

(Millions of Baht)

	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Activities of membership organizations	17,369	14,605	15,565	18,297	19,540	19,730	20,391	20,630
Repair of computers and personal and household goods	42,710	46,257	51,039	58,005	60,469	61,927	64,176	67,715
Other personal service activities	41,338	43,143	44,705	48,309	51,953	53,278	54,492	56,233
Total value added	101,756	104,315	111,664	125,052	132,437	135,406	139,545	145,028

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)**

	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Activities of membership organizations	203.0	170.7	181.9	213.8	228.4	230.6	238.3	241.1
Repair of computers and personal and household goods	159.5	172.8	190.6	216.7	225.9	231.3	239.7	252.9
Other personal service activities	82.7	86.3	89.4	96.6	103.9	106.5	109.0	112.4
Total value added	119.2	122.2	130.8	146.5	155.2	158.7	163.5	169.9

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

Percent

	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Activities of membership organizations	16.4	-15.9	6.6	17.6	6.8	1.0	3.4	1.2
Repair of computers and personal and household goods	-5.9	8.3	10.3	13.6	4.2	2.4	3.6	5.5
Other personal service activities	-14.1	4.4	3.6	8.1	7.5	2.6	2.3	3.2
Total value added	-6.3	2.5	7.0	12.0	5.9	2.2	3.1	3.9

Gross Domestic Product
(Expenditure)

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

	(Millions of Baht)							
	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Individual consumption expenditure of households	5,406,500	5,967,198	6,476,051	7,166,720	7,570,634	7,704,512	8,030,188	8,403,995
Food and non-alcoholic	1,418,110	1,589,711	1,726,426	1,809,626	1,871,175	1,930,228	1,976,150	2,051,291
<i>Food</i>	1,230,376	1,381,456	1,513,100	1,568,172	1,616,657	1,669,734	1,711,531	1,784,334
<i>Bread and cereals</i>	264,311	307,124	334,982	359,854	361,517	376,621	380,171	387,110
<i>Meat</i>	157,046	166,705	188,477	182,280	194,167	212,389	214,607	221,023
<i>Fish</i>	156,982	164,787	189,259	194,336	202,566	195,350	200,205	208,081
<i>Milk, cheese and eggs</i>	113,641	124,607	128,819	126,582	141,814	144,778	140,825	148,067
<i>Oil and fat</i>	51,306	59,593	82,162	85,604	85,098	91,302	89,943	83,774
<i>Fruit</i>	100,705	123,608	133,727	147,069	153,732	158,888	163,506	171,241
<i>Vegetables</i>	294,999	340,143	355,753	369,611	372,524	380,903	409,377	449,519
<i>Sugar, jam, honey, chocolate and confectionery</i>	40,086	44,011	47,194	49,568	51,098	52,807	53,760	53,661
<i>Food products n.e.c.</i>	51,300	50,878	52,727	53,268	54,141	56,696	59,137	61,858
<i>Non-alcoholic beverages</i>	187,734	208,255	213,326	241,454	254,518	260,494	264,619	266,957
Alcoholic beverages, tobacco and narcotic	232,766	235,068	235,457	249,956	255,988	264,832	270,515	281,916
<i>Alcoholic beverages</i>	164,385	164,581	160,724	174,266	172,575	178,588	184,085	181,524
<i>Tobacco</i>	68,381	70,487	74,733	75,690	83,413	86,244	86,430	100,392
Clothing and footwear	304,013	311,625	329,516	337,151	333,514	333,965	350,036	368,478
<i>Clothing</i>	281,613	287,948	303,322	310,476	304,331	303,211	316,860	332,851
<i>Footwear</i>	22,400	23,677	26,194	26,675	29,183	30,754	33,176	35,627
Housing, water, electricity, gas and other fuels	511,415	541,654	559,203	620,357	646,148	687,411	718,918	737,409
<i>Housing and water</i>	377,427	392,224	408,547	429,903	441,515	465,375	491,096	513,171
<i>Electricity, gas and other fuels</i>	133,988	149,430	150,656	190,454	204,633	222,036	227,822	224,238
Furnishings, households equipment and routine maintenance of the house	230,206	258,052	283,522	307,570	308,190	318,740	332,920	334,066
<i>Furniture and furnishings, carpets and other floor covering</i>	24,433	24,517	23,916	25,215	25,390	25,469	26,686	26,572
<i>Households equipment and routine maintenance of the house</i>	205,773	233,535	259,606	282,355	282,800	293,271	306,234	307,494
Health	225,465	256,202	296,608	310,393	329,391	343,885	358,427	377,916
Transport	804,848	958,221	1,015,093	1,237,489	1,266,890	1,130,663	1,066,165	1,071,588
<i>Purchase of vehicles</i>	206,694	290,255	312,060	484,882	480,754	331,077	302,467	307,901
<i>Operation of personal transport equipment</i>	314,737	364,087	387,606	426,781	447,849	456,596	409,353	403,433
<i>Transport services</i>	283,417	303,879	315,427	325,826	338,287	342,990	354,345	360,254
Communication	125,762	131,146	139,026	150,069	155,176	156,451	162,153	166,023
Recreation and culture	254,227	281,876	311,765	361,447	392,012	387,702	395,775	453,867
<i>Audio-visual, photographic and information processing equipment</i>	67,916	72,683	76,954	88,385	88,017	87,343	74,597	74,171
<i>Other recreation and entertainment</i>	140,871	161,559	184,951	219,080	245,730	241,259	263,915	324,182
<i>Newspaper, books and stationery</i>	45,440	47,634	49,860	53,982	58,265	59,100	57,263	55,514
Education	88,091	88,205	88,971	88,651	94,398	95,462	101,379	106,293
Restaurants and hotels	656,190	732,555	836,762	958,244	1,103,583	1,164,338	1,328,794	1,428,961
Miscellaneous goods and services	555,407	582,883	653,702	735,767	814,169	890,835	968,956	1,026,187
<i>Personal care</i>	105,022	110,170	121,559	131,717	140,988	153,387	170,158	176,269
<i>Personal effects n.e.c.</i>	99,261	110,482	142,000	154,430	163,243	182,570	215,279	239,593
<i>Financial services</i>	261,371	274,279	295,487	346,828	400,997	441,114	465,898	489,193
<i>Other services n.e.c.</i>	89,753	87,952	94,656	102,792	108,941	113,764	117,621	121,132
Individual consumption expenditure of non-profit institutions serving households (NPISHs)	97,343	101,575	112,359	122,135	132,065	144,252	145,215	146,285
<i>Health, education, and social protection</i>	57,550	59,772	64,454	67,757	72,135	77,503	77,764	77,537
<i>Other services n.e.c.</i>	39,793	41,803	47,905	54,378	59,930	66,749	67,451	68,748
Private final consumption expenditure in the domestic market	5,503,843	6,068,773	6,588,410	7,288,855	7,702,699	7,848,764	8,175,403	8,550,280
Plus : Expenditure of residents abroad	123,538	150,591	156,957	186,322	188,700	215,003	239,935	290,023
Less : Expenditure of non-residents in the country	501,939	580,152	757,123	931,116	1,144,523	1,130,325	1,402,774	1,579,894
Private final consumption expenditure	5,125,442	5,639,212	5,988,244	6,544,061	6,746,876	6,933,442	7,012,564	7,260,409

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

	(Millions of Baht)							
	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Individual consumption expenditure of households	4,314,518	4,590,631	4,787,151	5,177,067	5,356,651	5,348,850	5,621,031	5,851,514
Food and non-alcoholic	877,971	893,064	900,363	908,697	901,680	909,497	930,041	949,425
<i>Food</i>	715,446	718,750	724,287	721,120	709,686	715,032	732,733	750,072
<i>Bread and cereals</i>	163,410	167,360	170,111	171,540	171,840	177,904	179,855	183,788
<i>Meat</i>	109,175	111,448	112,088	111,233	110,768	112,225	116,343	119,465
<i>Fish</i>	114,119	114,094	120,038	116,979	108,241	97,868	99,159	100,089
<i>Milk, cheese and eggs</i>	83,903	87,952	84,416	83,864	88,995	89,646	90,124	92,436
<i>Oil and fat</i>	33,577	36,100	41,296	42,847	43,778	46,566	47,174	44,935
<i>Fruit</i>	45,675	45,782	44,315	43,677	43,029	43,964	44,825	45,117
<i>Vegetables</i>	102,290	97,294	96,571	96,123	91,231	92,803	97,704	103,223
<i>Sugar, jam, honey, chocolate and confectionery</i>	32,453	34,237	32,985	32,155	32,547	32,047	31,938	31,505
<i>Food products n.e.c.</i>	42,174	41,095	41,563	41,048	41,489	42,137	43,489	44,776
<i>Non-alcoholic beverages</i>	167,722	184,426	186,507	206,259	215,561	218,988	220,891	221,464
Alcoholic beverages, tobacco and narcotic	209,325	210,095	208,220	214,425	208,514	204,219	207,396	200,793
<i>Alcoholic beverages</i>	158,516	154,927	150,952	159,802	151,743	145,087	147,805	142,621
<i>Tobacco</i>	51,503	54,951	56,608	54,785	56,159	57,706	58,224	56,772
Clothing and footwear	288,463	291,924	301,228	300,378	290,835	284,688	289,893	299,509
<i>Clothing</i>	264,516	266,488	273,580	272,579	261,069	253,847	257,077	264,818
<i>Footwear</i>	24,210	25,884	28,364	28,560	31,128	32,588	34,970	37,151
Housing, water, electricity, gas and other fuels	479,755	508,519	522,510	564,772	574,488	595,423	623,707	650,332
<i>Housing and water</i>	375,990	390,842	403,902	422,150	430,276	449,072	467,213	486,216
<i>Electricity, gas and other fuels</i>	104,119	116,360	117,759	138,686	140,432	143,355	152,300	159,462
Furnishings, households equipment and routine maintenance of the house	221,763	248,225	269,523	288,696	287,093	292,499	301,946	302,402
<i>Furniture and furnishings, carpets and other floor covering</i>	25,240	25,334	24,717	25,685	26,116	25,748	26,628	26,325
<i>Households equipment and routine maintenance of the house</i>	196,449	222,586	244,258	262,354	260,374	266,047	274,595	275,319
Health	212,018	239,826	275,700	288,924	304,327	313,053	323,128	338,365
Transport	574,749	653,513	665,149	797,313	805,565	714,473	734,012	765,290
<i>Purchase of vehicles</i>	191,552	268,464	287,700	448,378	435,113	293,512	266,129	270,019
<i>Operation of personal transport equipment</i>	177,930	182,549	175,785	184,869	191,616	195,023	214,288	227,401
<i>Transport services</i>	201,535	215,142	222,048	227,246	235,319	238,960	250,598	261,886
Communication	156,922	167,992	178,372	185,407	196,804	217,780	231,360	236,878
Recreation and culture	243,656	275,410	302,730	347,025	374,544	366,153	374,587	433,097
<i>Audio-visual, photographic and information processing equipment</i>	74,315	82,942	89,483	100,356	99,558	98,380	83,608	82,628
<i>Other recreation and entertainment</i>	127,765	148,016	166,574	196,167	218,547	211,781	233,411	290,541
<i>Newspaper, books and stationery</i>	41,414	44,075	45,901	49,038	53,009	52,888	50,565	48,886
Education	81,942	84,702	85,593	85,247	90,152	90,239	94,089	96,073
Restaurants and hotels	552,919	603,555	655,770	737,486	828,550	846,848	951,994	1,016,714
Miscellaneous goods and services	423,381	434,090	465,241	514,399	570,713	610,889	669,841	692,926
<i>Personal care</i>	92,587	95,450	103,318	109,900	116,210	124,541	136,572	140,161
<i>Personal effects n.e.c.</i>	63,653	68,154	80,989	86,447	95,840	106,709	131,301	135,867
<i>Financial services</i>	193,604	199,694	206,033	238,546	274,577	292,371	307,454	319,433
<i>Other services n.e.c.</i>	72,427	68,844	71,375	75,241	78,037	79,977	84,418	86,775
Individual consumption expenditure of non-profit institutions serving households (NPISHs)	78,501	79,454	85,648	90,374	95,631	102,513	102,317	103,809
<i>Health, education, and social protection</i>	46,411	46,755	49,131	50,136	52,234	55,077	55,078	55,311
<i>Other services n.e.c.</i>	32,092	32,701	36,518	40,238	43,398	47,436	47,239	48,492
Private final consumption expenditure in the domestic market	4,392,928	4,670,030	4,872,696	5,267,395	5,452,185	5,451,107	5,723,203	5,955,189
Plus : Expenditure of residents abroad	105,783	125,284	125,791	144,988	143,709	160,796	181,063	218,364
Less : Expenditure of non-residents in the country	409,655	483,558	617,383	744,062	898,174	873,679	1,075,163	1,206,482
Private final consumption expenditure	4,090,699	4,313,694	4,392,805	4,687,902	4,731,750	4,768,308	4,877,110	5,022,799

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)

	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Individual consumption expenditure of households	128.8	137.0	142.9	154.5	159.9	159.6	167.8	174.6
Food and non-alcoholic	121.3	123.4	124.4	125.5	124.6	125.6	128.5	131.1
<i>Food</i>	116.2	116.7	117.6	117.1	115.2	116.1	119.0	121.8
<i>Bread and cereals</i>	109.9	112.6	114.4	115.4	115.6	119.7	121.0	123.6
<i>Meat</i>	126.0	128.7	129.4	128.4	127.9	129.5	134.3	137.9
<i>Fish</i>	144.7	144.7	152.2	148.3	137.3	124.1	125.7	126.9
<i>Milk, cheese and eggs</i>	117.7	123.4	118.4	117.7	124.9	125.8	126.5	129.7
<i>Oil and fat</i>	160.8	172.9	197.8	205.2	209.6	223.0	225.9	215.2
<i>Fruit</i>	83.8	84.0	81.3	80.2	79.0	80.7	82.3	82.8
<i>Vegetables</i>	116.7	111.0	110.2	109.7	104.1	105.9	111.5	117.8
<i>Sugar, jam, honey, chocolate and confectionery</i>	125.3	132.2	127.3	124.1	125.7	123.7	123.3	121.6
<i>Food products n.e.c.</i>	101.4	98.8	99.9	98.7	99.7	101.3	104.6	107.7
<i>Non-alcoholic beverages</i>	155.2	170.7	172.6	190.9	199.5	202.7	204.4	205.0
Alcoholic beverages, tobacco and narcotic	121.7	122.2	121.1	124.7	121.2	118.8	120.6	116.8
<i>Alcoholic beverages</i>	137.4	134.3	130.8	138.5	131.5	125.7	128.1	123.6
<i>Tobacco</i>	91.0	97.1	100.1	96.8	99.3	102.0	102.9	100.3
Clothing and footwear	121.4	122.8	126.8	126.4	122.4	119.8	122.0	126.0
<i>Clothing</i>	119.7	120.6	123.8	123.4	118.2	114.9	116.4	119.9
<i>Footwear</i>	144.8	154.9	169.7	170.9	186.2	195.0	209.2	222.2
Housing, water, electricity, gas and other fuels	126.2	133.8	137.5	148.6	151.2	156.7	164.1	171.1
<i>Housing and water</i>	127.1	132.1	136.6	142.7	145.5	151.8	158.0	164.4
<i>Electricity, gas and other fuels</i>	123.6	138.1	139.8	164.6	166.7	170.2	180.8	189.3
Furnishings, households equipment and routine maintenance of the house	142.8	159.9	173.6	185.9	184.9	188.4	194.5	194.8
<i>Furniture and furnishings, carpets and other floor covering</i>	93.9	94.3	92.0	95.6	97.2	95.8	99.1	98.0
<i>Households equipment and routine maintenance of the house</i>	153.0	173.4	190.2	204.3	202.8	207.2	213.9	214.4
Health	134.6	152.2	175.0	183.4	193.2	198.7	205.1	214.8
Transport	126.2	143.4	146.0	175.0	176.8	156.8	161.1	168.0
<i>Purchase of vehicles</i>	146.5	205.3	220.1	343.0	332.8	224.5	203.6	206.5
<i>Operation of personal transport equipment</i>	112.3	115.2	110.9	116.6	120.9	123.0	135.2	143.5
<i>Transport services</i>	121.1	129.3	133.5	136.6	141.4	143.6	150.6	157.4
Communication	173.0	185.2	196.6	204.4	217.0	240.1	255.0	261.1
Recreation and culture	136.2	154.0	169.2	194.0	209.4	204.7	209.4	242.1
<i>Audio-visual, photographic and information processing equipment</i>	116.8	130.4	140.6	157.7	156.5	154.6	131.4	129.9
<i>Other recreation and entertainment</i>	151.3	175.3	197.3	232.4	258.9	250.9	276.5	344.2
<i>Newspaper, books and stationery</i>	134.3	142.9	148.9	159.0	171.9	171.5	164.0	158.5
Education	144.0	148.9	150.4	149.8	158.4	158.6	165.4	168.8
Restaurants and hotels	128.8	140.6	152.8	171.8	193.1	197.3	221.8	236.9
Miscellaneous goods and services	135.3	138.7	148.7	164.4	182.4	195.2	214.0	221.4
<i>Personal care</i>	143.3	147.7	159.9	170.1	179.9	192.8	211.4	216.9
<i>Personal effects n.e.c.</i>	126.3	135.2	160.7	171.5	190.2	211.7	260.5	269.6
<i>Financial services</i>	147.9	152.6	157.4	182.3	209.8	223.4	234.9	244.1
<i>Other services n.e.c.</i>	108.0	102.7	106.4	112.2	116.4	119.3	125.9	129.4
Individual consumption expenditure of non-profit institutions serving households (NPISHs)	137.0	138.6	149.4	157.7	166.8	178.8	178.5	181.1
<i>Health, education, and social protection</i>	107.6	108.4	113.9	116.2	121.1	127.7	127.7	128.2
<i>Other services n.e.c.</i>	226.4	230.7	257.7	283.9	306.2	334.7	333.3	342.2
Private final consumption expenditure in the domestic market	128.9	137.0	143.0	154.6	160.0	160.0	167.9	174.7
Plus : Expenditure of residents abroad	93.1	110.2	110.7	127.5	126.4	141.4	159.3	192.1
Less : Expenditure of non-residents in the country	132.0	155.8	198.9	239.8	289.4	281.5	346.4	388.8
Private final consumption expenditure	127.4	134.3	136.8	146.0	147.4	148.5	151.9	156.4

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

	2009	2010	2011	2012r	2013r	2014r	2015r	2016p	Percent
Individual consumption expenditure of households	-1.7	6.4	4.3	8.1	3.5	-0.1	5.1	4.1	
Food and non-alcoholic	-0.5	1.7	0.8	0.9	-0.8	0.9	2.3	2.1	
<i>Food</i>	-1.1	0.5	0.8	-0.4	-1.6	0.8	2.5	2.4	
<i>Bread and cereals</i>	-2.2	2.4	1.6	0.8	0.2	3.5	1.1	2.2	
<i>Meat</i>	-0.4	2.1	0.6	-0.8	-0.4	1.3	3.7	2.7	
<i>Fish</i>	-0.1	0.0	5.2	-2.5	-7.5	-9.6	1.3	0.9	
<i>Milk, cheese and eggs</i>	12.7	4.8	-4.0	-0.7	6.1	0.7	0.5	2.6	
<i>Oil and fat</i>	14.3	7.5	14.4	3.8	2.2	6.4	1.3	-4.7	
<i>Fruit</i>	-6.1	0.2	-3.2	-1.4	-1.5	2.2	2.0	0.7	
<i>Vegetables</i>	-5.5	-4.9	-0.7	-0.5	-5.1	1.7	5.3	5.6	
<i>Sugar, jam, honey, chocolate and confectionery</i>	-3.1	5.5	-3.7	-2.5	1.2	-1.5	-0.3	-1.4	
<i>Food products n.e.c.</i>	-1.2	-2.6	1.1	-1.2	1.1	1.6	3.2	3.0	
<i>Non-alcoholic beverages</i>	3.2	10.0	1.1	10.6	4.5	1.6	0.9	0.3	
Alcoholic beverages, tobacco and narcotic	-10.5	0.4	-0.9	3.0	-2.8	-2.1	1.6	-3.2	
<i>Alcoholic beverages</i>	-11.4	-2.3	-2.6	5.9	-5.0	-4.4	1.9	-3.5	
<i>Tobacco</i>	-8.2	6.7	3.0	-3.2	2.5	2.8	0.9	-2.5	
Clothing and footwear	-4.8	1.2	3.2	-0.3	-3.2	-2.1	1.8	3.3	
<i>Clothing</i>	-5.6	0.7	2.7	-0.4	-4.2	-2.8	1.3	3.0	
<i>Footwear</i>	6.5	6.9	9.6	0.7	9.0	4.7	7.3	6.2	
Housing, water, electricity, gas and other fuels	0.5	6.0	2.8	8.1	1.7	3.6	4.8	4.3	
<i>Housing and water</i>	-0.2	4.0	3.3	4.5	1.9	4.4	4.0	4.1	
<i>Electricity, gas and other fuels</i>	2.5	11.8	1.2	17.8	1.3	2.1	6.2	4.7	
Furnishings, households equipment and routine maintenance of the house	-5.6	11.9	8.6	7.1	-0.6	1.9	3.2	0.2	
<i>Furniture and furnishings, carpets and other floor covering</i>	-7.0	0.4	-2.4	3.9	1.7	-1.4	3.4	-1.1	
<i>Households equipment and routine maintenance of the house</i>	-5.4	13.3	9.7	7.4	-0.8	2.2	3.2	0.3	
Health	-2.3	13.1	15.0	4.8	5.3	2.9	3.2	4.7	
Transport	-1.5	13.7	1.8	19.9	1.0	-11.3	2.7	4.3	
<i>Purchase of vehicles</i>	-8.5	40.2	7.2	55.8	-3.0	-32.5	-9.3	1.5	
<i>Operation of personal transport equipment</i>	0.9	2.6	-3.7	5.2	3.7	1.8	9.9	6.1	
<i>Transport services</i>	1.2	6.8	3.2	2.3	3.6	1.5	4.9	4.5	
Communication	-10.0	7.1	6.2	3.9	6.1	10.7	6.2	2.4	
Recreation and culture	-5.7	13.0	9.9	14.6	7.9	-2.2	2.3	15.6	
<i>Audio-visual, photographic and information processing equipment</i>	-11.0	11.6	7.9	12.2	-0.8	-1.2	-15.0	-1.2	
<i>Other recreation and entertainment</i>	-4.4	15.9	12.5	17.8	11.4	-3.1	10.2	24.5	
<i>Newspaper, books and stationery</i>	-0.2	6.4	4.1	6.8	8.1	-0.2	-4.4	-3.3	
Education	7.1	3.4	1.1	-0.4	5.8	0.1	4.3	2.1	
Restaurants and hotels	-0.6	9.2	8.7	12.5	12.3	2.2	12.4	6.8	
Miscellaneous goods and services	2.6	2.5	7.2	10.6	10.9	7.0	9.7	3.4	
<i>Personal care</i>	1.5	3.1	8.2	6.4	5.7	7.2	9.7	2.6	
<i>Personal effects n.e.c.</i>	-0.2	7.1	18.8	6.7	10.9	11.3	23.0	3.5	
<i>Financial services</i>	8.6	3.1	3.2	15.8	15.1	6.5	5.2	3.9	
<i>Other services n.e.c.</i>	-8.8	-4.9	3.7	5.4	3.7	2.5	5.6	2.8	
Individual consumption expenditure of non-profit institutions serving households (NPISHs)	8.4	1.2	7.8	5.5	5.8	7.2	-0.2	1.5	
<i>Health, education, and social protection</i>	2.0	0.7	5.1	2.0	4.2	5.4	0.0	0.4	
<i>Other services n.e.c.</i>	19.2	1.9	11.7	10.2	7.9	9.3	-0.4	2.7	
Private final consumption expenditure in the domestic market	-1.5	6.3	4.3	8.1	3.5	0.0	5.0	4.1	
Plus : Expenditure of residents abroad	-9.0	18.4	0.4	15.3	-0.9	11.9	12.6	20.6	
Less : Expenditure of non-residents in the country	-9.8	18.0	27.7	20.5	20.7	-2.7	23.1	12.2	
Private final consumption expenditure	-0.9	5.5	1.8	6.7	0.9	0.8	2.3	3.0	

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

	(Millions of Baht)							
	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Individual consumption expenditure of households	5,406,500	5,967,198	6,476,051	7,166,720	7,570,634	7,704,512	8,030,188	8,403,995
Food and non-alcoholic	1,418,110	1,589,711	1,726,426	1,809,626	1,871,175	1,930,228	1,976,150	2,051,291
<i>Non-durable goods</i>	1,418,110	1,589,711	1,726,426	1,809,626	1,871,175	1,930,228	1,976,150	2,051,291
Alcoholic beverages, tobacco and narcotic	232,766	235,068	235,457	249,956	255,988	264,832	270,515	281,916
<i>Non-durable goods</i>	232,766	235,068	235,457	249,956	255,988	264,832	270,515	281,916
Clothing and footwear	304,013	311,625	329,516	337,151	333,514	333,965	350,036	368,478
<i>Semi-durable goods</i>	300,743	308,310	325,926	333,238	329,207	329,756	345,458	364,500
<i>Services</i>	3,270	3,315	3,590	3,913	4,307	4,209	4,578	3,978
Housing, water, electricity, gas and other fuels	511,415	541,654	559,203	620,357	646,148	687,411	718,918	737,409
<i>Non-durable goods</i>	154,035	176,349	181,014	224,030	241,003	262,268	269,133	265,914
<i>Services</i>	357,380	365,305	378,189	396,327	405,145	425,143	449,785	471,495
Furnishings, households equipment and routine maintenance of the house	230,206	258,052	283,522	307,570	308,190	318,740	332,920	334,066
<i>Durable goods</i>	49,594	58,789	69,315	71,641	71,549	72,043	73,998	73,860
<i>Semi-durable goods</i>	110,528	128,938	141,813	159,455	157,699	163,946	170,862	169,572
<i>Non-durable goods</i>	37,939	39,784	41,740	43,418	45,199	47,089	49,088	51,101
<i>Services</i>	32,145	30,541	30,654	33,056	33,743	35,662	38,972	39,533
Health	225,465	256,202	296,608	310,393	329,391	343,885	358,427	377,916
<i>Durable goods</i>	4,084	4,730	5,423	6,093	6,096	6,375	6,511	6,819
<i>Non-durable goods</i>	81,629	87,787	106,786	114,531	129,225	138,620	147,186	160,626
<i>Services</i>	139,752	163,685	184,399	189,769	194,070	198,890	204,730	210,471
Transport	804,848	958,221	1,015,093	1,237,489	1,266,890	1,130,663	1,066,165	1,071,588
<i>Durable goods</i>	206,694	290,255	312,060	484,882	480,754	331,077	302,467	307,901
<i>Semi-durable goods</i>	21,833	26,204	25,652	28,079	28,706	28,408	30,999	31,690
<i>Non-durable goods</i>	259,127	301,584	322,725	354,673	370,827	378,652	324,834	313,925
<i>Services</i>	317,194	340,178	354,656	369,855	386,603	392,526	407,865	418,072
Communication	125,762	131,146	139,026	150,069	155,176	156,451	162,153	166,023
<i>Durable goods</i>	5,123	5,767	6,033	6,535	7,306	7,497	7,467	7,543
<i>Services</i>	120,639	125,379	132,993	143,534	147,870	148,954	154,686	158,480
Recreation and culture	254,227	281,876	311,765	361,447	392,012	387,702	395,775	453,867
<i>Durable goods</i>	58,412	62,617	67,167	78,861	79,365	78,529	66,224	65,663
<i>Semi-durable goods</i>	40,563	42,131	42,202	43,056	43,204	43,656	44,085	41,392
<i>Non-durable goods</i>	30,417	32,959	35,042	39,056	43,166	42,880	40,530	42,095
<i>Services</i>	124,835	144,169	167,354	200,474	226,277	222,637	244,936	304,717
Education	88,091	88,205	88,971	88,651	94,398	95,462	101,379	106,293
<i>Services</i>	88,091	88,205	88,971	88,651	94,398	95,462	101,379	106,293
Restaurants and hotels	656,190	732,555	836,762	958,244	1,103,583	1,164,338	1,328,794	1,428,961
<i>Services</i>	656,190	732,555	836,762	958,244	1,103,583	1,164,338	1,328,794	1,428,961
Miscellaneous goods and services	555,407	582,883	653,702	735,767	814,169	890,835	968,956	1,026,187
<i>Durable goods</i>	80,802	90,759	115,616	123,157	130,220	134,886	154,960	173,172
<i>Semi-durable goods</i>	18,274	19,557	26,231	31,187	32,885	47,701	60,420	66,530
<i>Non-durable goods</i>	80,763	84,341	92,923	101,193	108,698	119,539	132,525	136,219
<i>Services</i>	375,568	388,226	418,932	480,230	542,366	588,709	621,051	650,266
Individual consumption expenditure of non-profit institutions serving households (NPISHs)	97,343	101,575	112,359	122,135	132,065	144,252	145,215	146,285
<i>Semi-durable goods</i>	441	521	589	794	961	1,092	861	863
<i>Non-durable goods</i>	18,505	20,198	21,623	21,795	22,863	24,597	24,514	24,537
<i>Services</i>	78,397	80,856	90,147	99,546	108,241	118,563	119,840	120,885
Private final consumption expenditure in the domestic market	5,503,843	6,068,773	6,588,410	7,288,855	7,702,699	7,848,764	8,175,403	8,550,280
Plus : Expenditure of residents abroad	123,538	150,591	156,957	186,322	188,700	215,003	239,935	290,023
Less : Expenditure of non-residents in the country	501,939	580,152	757,123	931,116	1,144,523	1,130,325	1,402,774	1,579,894
Private final consumption expenditure	5,125,442	5,639,212	5,988,244	6,544,061	6,746,876	6,933,442	7,012,564	7,260,409
<i>Durable goods</i>	404,708	512,918	575,615	771,169	775,291	630,408	611,627	634,959
<i>Semi-durable goods</i>	492,383	525,661	562,414	595,809	592,662	614,558	652,685	674,548
<i>Non-durable goods</i>	2,313,292	2,567,782	2,763,736	2,958,277	3,088,145	3,208,704	3,234,475	3,327,624
<i>Services</i>	1,915,059	2,032,851	2,086,479	2,218,806	2,290,778	2,479,772	2,513,777	2,623,278

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

	(Millions of Baht)							
	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Individual consumption expenditure of households	4,314,519	4,590,632	4,787,152	5,177,067	5,356,651	5,348,850	5,621,031	5,851,514
Food and non-alcoholic	877,972	893,065	900,364	908,697	901,680	909,497	930,041	949,425
<i>Non-durable goods</i>	877,972	893,065	900,364	908,697	901,680	909,497	930,041	949,425
Alcoholic beverages, tobacco and narcotic	209,326	210,095	208,220	214,425	208,514	204,219	207,396	200,793
<i>Non-durable goods</i>	209,326	210,095	208,220	214,425	208,514	204,219	207,396	200,793
Clothing and footwear	288,463	291,924	301,228	300,378	290,835	284,688	289,893	299,509
<i>Semi-durable goods</i>	285,323	288,737	297,818	296,690	286,829	280,796	285,746	295,900
<i>Services</i>	3,146	3,194	3,421	3,710	4,056	3,940	4,213	3,600
Housing, water, electricity, gas and other fuels	479,754	508,518	522,509	564,772	574,488	595,423	623,707	650,332
<i>Non-durable goods</i>	122,515	141,747	145,509	168,988	171,728	176,055	186,325	194,248
<i>Services</i>	358,597	365,101	375,318	391,220	398,168	415,341	432,296	450,793
Furnishings, households equipment and routine maintenance of the house	221,762	248,224	269,522	288,696	287,093	292,499	301,946	302,402
<i>Durable goods</i>	51,207	61,046	72,478	74,789	75,138	75,288	76,803	76,537
<i>Semi-durable goods</i>	111,349	130,354	142,339	159,125	157,161	162,366	168,110	166,298
<i>Non-durable goods</i>	29,720	31,231	32,068	32,674	34,010	34,938	36,231	37,988
<i>Services</i>	30,019	27,354	25,752	26,127	24,665	24,085	24,963	25,105
Health	212,019	239,827	275,702	288,924	304,327	313,053	323,128	338,365
<i>Durable goods</i>	5,243	5,873	5,740	7,364	7,388	7,303	7,181	7,307
<i>Non-durable goods</i>	78,461	83,503	101,379	109,950	123,235	131,549	139,193	152,386
<i>Services</i>	128,719	150,673	168,750	172,102	174,540	175,257	178,005	180,473
Transport	574,748	653,512	665,148	797,313	805,565	714,473	734,012	765,290
<i>Durable goods</i>	191,552	268,463	287,699	448,378	435,113	293,512	266,129	270,019
<i>Semi-durable goods</i>	18,187	21,330	20,214	21,595	22,123	21,743	23,710	24,254
<i>Non-durable goods</i>	133,189	135,595	129,924	136,490	141,238	144,033	158,565	168,665
<i>Services</i>	228,934	242,540	249,846	256,436	266,232	270,604	285,107	298,813
Communication	156,921	167,991	178,371	185,407	196,804	217,780	231,360	236,878
<i>Durable goods</i>	7,374	8,428	9,148	10,161	11,340	12,819	12,894	13,031
<i>Services</i>	149,511	159,599	169,286	175,416	185,764	205,344	218,732	224,089
Recreation and culture	243,655	275,410	302,729	347,025	374,544	366,153	374,587	433,097
<i>Durable goods</i>	65,482	73,834	81,111	92,792	93,126	91,806	76,832	75,612
<i>Semi-durable goods</i>	38,359	40,604	40,595	41,239	41,419	41,488	41,584	38,868
<i>Non-durable goods</i>	27,448	29,939	31,334	34,214	38,110	37,294	34,892	36,301
<i>Services</i>	112,369	130,864	149,258	177,847	198,910	192,928	214,072	270,107
Education	81,943	84,703	85,594	85,247	90,152	90,239	94,089	96,073
<i>Services</i>	81,943	84,703	85,594	85,247	90,152	90,239	94,089	96,073
Restaurants and hotels	552,919	603,555	655,770	737,486	828,550	846,848	951,994	1,016,714
<i>Services</i>	552,919	603,555	655,770	737,486	828,550	846,848	951,994	1,016,714
Miscellaneous goods and services	423,381	434,089	465,240	514,399	570,713	610,889	669,841	692,926
<i>Durable goods</i>	48,443	51,805	60,381	64,218	72,021	75,125	91,640	93,371
<i>Semi-durable goods</i>	16,492	17,807	23,082	25,031	26,447	36,943	46,633	50,141
<i>Non-durable goods</i>	72,076	73,844	79,809	85,402	90,772	98,543	108,082	110,408
<i>Services</i>	288,362	292,202	302,887	341,206	382,029	402,700	424,747	440,525
Individual consumption expenditure of non-profit institutions serving households (NPISHs)	78,501	79,454	85,648	90,374	95,631	102,513	102,317	103,809
<i>Semi-durable goods</i>	360	513	598	798	957	1,079	846	853
<i>Non-durable goods</i>	15,950	17,079	17,833	17,663	18,221	19,169	18,842	18,816
<i>Services</i>	62,201	61,951	67,268	71,901	76,421	82,204	82,468	83,944
Private final consumption expenditure in the domestic market	4,392,927	4,670,029	4,872,696	5,267,395	5,452,185	5,451,107	5,723,203	5,955,189
Plus : Expenditure of residents abroad	105,783	125,284	125,791	144,988	143,709	160,796	181,063	218,364
Less : Expenditure of non-residents in the country	409,655	483,557	617,383	744,062	898,174	873,679	1,075,163	1,206,482
Private final consumption expenditure	4,090,699	4,313,694	4,392,804	4,687,902	4,731,750	4,768,308	4,877,110	5,022,799
<i>Durable goods</i>	367,487	464,469	512,813	687,175	688,974	554,835	543,697	549,237
<i>Semi-durable goods</i>	470,462	499,370	524,117	543,056	533,717	543,669	567,166	578,304
<i>Non-durable goods</i>	1,567,139	1,612,747	1,632,883	1,684,791	1,697,445	1,721,567	1,785,632	1,832,833
<i>Services</i>	1,691,290	1,757,545	1,750,562	1,833,103	1,872,112	1,993,174	2,013,182	2,097,218

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)

	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Individual consumption expenditure of households	129	137.0	142.9	154.5	159.9	159.6	167.8	174.6
Food and non-alcoholic	121	123.4	124.4	125.5	124.6	125.6	128.5	131.1
<i>Non-durable goods</i>	121	123.4	124.4	125.5	124.6	125.6	128.5	131.1
Alcoholic beverages, tobacco and narcotic	122	122.2	121.1	124.7	121.2	118.8	120.6	116.8
<i>Non-durable goods</i>	122	122.2	121.1	124.7	121.2	118.8	120.6	116.8
Clothing and footwear	121	122.8	126.8	126.4	122.4	119.8	122.0	126.0
<i>Semi-durable goods</i>	121	122.5	126.3	125.9	121.7	119.1	121.2	125.5
<i>Services</i>	163	165.6	177.3	192.3	210.3	204.3	218.4	186.6
Housing, water, electricity, gas and other fuels	126	133.8	137.5	148.6	151.2	156.7	164.1	171.1
<i>Non-durable goods</i>	119	137.7	141.4	164.2	166.8	171.0	181.0	188.7
<i>Services</i>	129	131.8	135.5	141.2	143.7	149.9	156.0	162.7
Furnishings, households equipment and routine maintenance of the house	143	159.9	173.6	185.9	184.9	188.4	194.5	194.8
<i>Durable goods</i>	165	197.3	234.2	241.7	242.8	243.3	248.2	247.3
<i>Semi-durable goods</i>	152	177.8	194.1	217.0	214.3	221.4	229.3	226.8
<i>Non-durable goods</i>	124	130.0	133.5	136.0	141.5	145.4	150.8	158.1
<i>Services</i>	111	101.5	95.5	96.9	91.5	89.3	92.6	93.1
Health	135	152.2	175.0	183.4	193.2	198.7	205.1	214.8
<i>Durable goods</i>	398	446.3	436.2	559.6	561.4	554.9	545.7	555.2
<i>Non-durable goods</i>	137	146.2	177.5	192.5	215.8	230.4	243.8	266.9
<i>Services</i>	130	152.0	170.2	173.6	176.1	176.8	179.6	182.1
Transport	126	143.4	146.0	175.0	176.8	156.8	161.1	168.0
<i>Durable goods</i>	147	205.3	220.1	343.0	332.8	224.5	203.6	206.5
<i>Semi-durable goods</i>	119	139.9	132.6	141.7	145.1	142.7	155.6	159.1
<i>Non-durable goods</i>	110	112.4	107.7	113.2	117.1	119.4	131.5	139.8
<i>Services</i>	121	128.3	132.2	135.7	140.9	143.2	150.8	158.1
Communication	173	185.2	196.6	204.4	216.9	240.1	255.0	261.1
<i>Durable goods</i>	135	154.8	168.0	186.6	208.3	235.5	236.8	239.4
<i>Services</i>	175	187.2	198.5	205.7	217.9	240.8	256.5	262.8
Recreation and culture	136	154.0	169.2	194.0	209.4	204.7	209.4	242.1
<i>Durable goods</i>	111	125.5	137.9	157.7	158.3	156.1	130.6	128.5
<i>Semi-durable goods</i>	217	229.8	229.8	233.4	234.4	234.8	235.4	220.0
<i>Non-durable goods</i>	101	109.8	114.9	125.4	139.7	136.7	127.9	133.1
<i>Services</i>	150	174.2	198.7	236.8	264.8	256.9	285.0	359.6
Education	144	148.9	150.4	149.8	158.4	158.6	165.4	168.9
<i>Services</i>	144	148.9	150.4	149.8	158.4	158.6	165.4	168.9
Restaurants and hotels	129	140.6	152.8	171.8	193.1	197.3	221.8	236.9
<i>Services</i>	129	140.6	152.8	171.8	193.1	197.3	221.8	236.9
Miscellaneous goods and services	135	138.7	148.7	164.4	182.4	195.2	214.0	221.4
<i>Durable goods</i>	110	117.7	137.2	145.9	163.6	170.7	208.2	212.1
<i>Semi-durable goods</i>	262	282.4	366.0	396.9	419.4	585.8	739.5	795.1
<i>Non-durable goods</i>	146	149.1	161.1	172.4	183.3	199.0	218.2	222.9
<i>Services</i>	135	137.1	142.1	160.1	179.3	189.0	199.3	206.7
Individual consumption expenditure of non-profit institutions serving households (NPISHs)	137	138.6	149.4	157.7	166.8	178.8	178.5	181.1
<i>Semi-durable goods</i>	159	226.0	263.4	351.5	421.6	475.3	372.7	375.8
<i>Non-durable goods</i>	322	344.5	359.7	356.3	367.5	386.6	380.0	379.5
<i>Services</i>	119	118.8	129.0	137.9	146.6	157.7	158.2	161.0
Private final consumption expenditure in the domestic market	129	137.0	143.0	154.6	160.0	160.0	167.9	174.7
Plus : Expenditure of residents abroad	93	110.2	110.7	127.5	126.4	141.4	159.3	192.1
Less : Expenditure of non-residents in the country	132	155.8	198.9	239.8	289.4	281.5	346.4	388.8
Private final consumption expenditure	127	134.3	136.8	146.0	147.4	148.5	151.9	156.4
<i>Durable goods</i>	135	171.2	189.0	253.3	254.0	204.5	200.4	202.5
<i>Semi-durable goods</i>	135	143.3	150.4	155.8	153.2	156.0	162.8	165.9
<i>Non-durable goods</i>	122	125.8	127.3	131.4	132.4	134.3	139.2	142.9
<i>Services</i>	129	134.3	133.7	140.0	143.0	152.3	153.8	160.2

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

	2009	2010	2011	2012r	2013r	2014r	2015r	2016p	Percent
Individual consumption expenditure of households	-2	6.4	4.3	8.1	3.5	-0.1	5.1	4.1	
Food and non-alcoholic	-1	1.7	0.8	0.9	-0.8	0.9	2.3	2.1	
<i>Non-durable goods</i>	-1	1.7	0.8	0.9	-0.8	0.9	2.3	2.1	
Alcoholic beverages, tobacco and narcotic	-10	0.4	-0.9	3.0	-2.8	-2.1	1.6	-3.2	
<i>Non-durable goods</i>	-10	0.4	-0.9	3.0	-2.8	-2.1	1.6	-3.2	
Clothing and footwear	-5	1.2	3.2	-0.3	-3.2	-2.1	1.8	3.3	
<i>Semi-durable goods</i>	-5	1.2	3.1	-0.4	-3.3	-2.1	1.8	3.6	
<i>Services</i>	4	1.5	7.1	8.4	9.3	-2.9	6.9	-14.6	
Housing, water, electricity, gas and other fuels	0	6.0	2.8	8.1	1.7	3.6	4.8	4.3	
<i>Non-durable goods</i>	0	15.7	2.7	16.1	1.6	2.5	5.8	4.3	
<i>Services</i>	1	1.8	2.8	4.2	1.8	4.3	4.1	4.3	
Furnishings, households equipment and routine maintenance of the house	-6	11.9	8.6	7.1	-0.6	1.9	3.2	0.2	
<i>Durable goods</i>	10	19.2	18.7	3.2	0.5	0.2	2.0	-0.3	
<i>Semi-durable goods</i>	-14	17.1	9.2	11.8	-1.2	3.3	3.5	-1.1	
<i>Non-durable goods</i>	-1	5.1	2.7	1.9	4.1	2.7	3.7	4.8	
<i>Services</i>	-1	-8.9	-5.9	1.5	-5.6	-2.4	3.6	0.6	
Health	-2	13.1	15.0	4.8	5.3	2.9	3.2	4.7	
<i>Durable goods</i>	8	12.0	-2.3	28.3	0.3	-1.2	-1.7	1.8	
<i>Non-durable goods</i>	-2	6.4	21.4	8.5	12.1	6.7	5.8	9.5	
<i>Services</i>	-3	17.1	12.0	2.0	1.4	0.4	1.6	1.4	
Transport	-1	13.7	1.8	19.9	1.0	-11.3	2.7	4.3	
<i>Durable goods</i>	-8	40.2	7.2	55.8	-3.0	-32.5	-9.3	1.5	
<i>Semi-durable goods</i>	6	17.3	-5.2	6.8	2.4	-1.7	9.0	2.3	
<i>Non-durable goods</i>	0	1.8	-4.2	5.1	3.5	2.0	10.1	6.4	
<i>Services</i>	2	5.9	3.0	2.6	3.8	1.6	5.4	4.8	
Communication	-10	7.1	6.2	3.9	6.1	10.7	6.2	2.4	
<i>Durable goods</i>	-5	14.3	8.5	11.1	11.6	13.0	0.6	1.1	
<i>Services</i>	-10	6.7	6.1	3.6	5.9	10.5	6.5	2.4	
Recreation and culture	-6	13.0	9.9	14.6	7.9	-2.2	2.3	15.6	
<i>Durable goods</i>	-13	12.8	9.9	14.4	0.4	-1.4	-16.3	-1.6	
<i>Semi-durable goods</i>	3	5.9	0.0	1.6	0.4	0.2	0.2	-6.5	
<i>Non-durable goods</i>	-5	9.1	4.7	9.2	11.4	-2.1	-6.4	4.0	
<i>Services</i>	-5	16.5	14.1	19.2	11.8	-3.0	11.0	26.2	
Education	7	3.4	1.1	-0.4	5.8	0.1	4.3	2.1	
<i>Services</i>	7	3.4	1.1	-0.4	5.8	0.1	4.3	2.1	
Restaurants and hotels	-1	9.2	8.7	12.5	12.3	2.2	12.4	6.8	
<i>Services</i>	-1	9.2	8.7	12.5	12.3	2.2	12.4	6.8	
Miscellaneous goods and services	3	2.5	7.2	10.6	10.9	7.0	9.7	3.4	
<i>Durable goods</i>	-3	6.9	16.6	6.4	12.2	4.3	22.0	1.9	
<i>Semi-durable goods</i>	13	8.0	29.6	8.4	5.7	39.7	26.2	7.5	
<i>Non-durable goods</i>	1	2.5	8.1	7.0	6.3	8.6	9.7	2.2	
<i>Services</i>	4	1.3	3.7	12.7	12.0	5.4	5.5	3.7	
Individual consumption expenditure of non-profit institutions serving households (NPISHs)	8	1.2	7.8	5.5	5.8	7.2	-0.2	1.5	
<i>Semi-durable goods</i>	11	42.5	16.6	33.4	19.9	12.7	-21.6	0.8	
<i>Non-durable goods</i>	8	7.1	4.4	-1.0	3.2	5.2	-1.7	-0.1	
<i>Services</i>	8	-0.4	8.6	6.9	6.3	7.6	0.3	1.8	
Private final consumption expenditure in the domestic market	-2	6.3	4.3	8.1	3.5	0.0	5.0	4.1	
Plus : Expenditure of residents abroad	-9	18.4	0.4	15.3	-0.9	11.9	12.6	20.6	
Less : Expenditure of non-residents in the country	-10	18.0	27.7	20.5	20.7	-2.7	23.1	12.2	
Private final consumption expenditure	-1	5.5	1.8	6.7	0.9	0.8	2.3	3.0	
<i>Durable goods</i>	-6	26.4	10.4	34.0	0.3	-19.5	-2.0	1.0	
<i>Semi-durable goods</i>	-5	6.1	5.0	3.6	-1.7	1.9	4.3	2.0	
<i>Non-durable goods</i>	-2	2.9	1.2	3.2	0.8	1.4	3.7	2.6	
<i>Services</i>	2	3.9	-0.4	4.7	2.1	6.5	1.0	4.2	

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

	(Millions of Baht)							
	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
By type of expenditure								
Compensation of employees	868,511	926,078	995,458	1,087,339	1,140,263	1,228,295	1,291,628	1,350,361
Consumption of fixed capital	183,615	193,277	209,493	232,355	245,156	249,348	261,017	272,413
Purchases from enterprises and abroad	394,728	446,794	484,161	532,817	590,214	621,383	680,203	708,961
Less: Purchases by households and enterprises	71,451	72,466	77,384	77,388	100,156	105,072	123,712	135,204
Social transfers in kind - purchased market production	168,059	214,094	213,408	245,672	237,892	244,131	243,480	265,008
General government final consumption expenditure	1,543,462	1,707,777	1,825,136	2,020,794	2,113,369	2,238,084	2,352,617	2,461,539
By classification of the functions of government (COFOG)								
General public services	209,758	221,200	239,642	275,399	303,314	322,281	349,364	358,796
Defence	142,695	155,824	177,694	183,465	194,480	218,360	239,793	258,913
Public order and safety	156,435	172,584	176,949	191,284	192,827	200,719	212,572	222,647
Economic affairs	230,314	254,208	262,366	278,155	295,570	294,757	301,187	300,716
Environmental protection	18,449	23,893	25,542	28,273	28,143	28,924	31,605	35,156
Housing and community amenities	48,764	44,737	53,600	63,622	72,800	67,899	70,323	74,332
Health	241,191	276,167	282,445	328,196	339,741	369,807	382,534	408,586
Recreation, culture and religion	34,209	35,418	34,283	38,685	38,127	37,452	37,646	40,470
Education	437,297	498,038	543,631	602,520	619,739	665,947	694,767	727,861
Social protection	24,350	25,708	28,984	31,195	28,628	31,936	32,825	34,061
General government final consumption expenditure	1,543,462	1,707,777	1,825,136	2,020,794	2,113,369	2,238,084	2,352,617	2,461,539
By type of services								
Collective consumption expenditure	817,610	890,448	954,829	1,037,972	1,100,563	1,141,173	1,205,322	1,249,271
Individual consumption expenditure	725,852	817,329	870,307	982,822	1,012,806	1,096,911	1,147,295	1,212,269
General government final consumption expenditure	1,543,462	1,707,777	1,825,136	2,020,794	2,113,369	2,238,084	2,352,617	2,461,539

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

	(Millions of Baht)							
	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
By type of expenditure								
Compensation of employees	598,381	628,287	650,919	681,549	686,105	708,807	712,628	717,345
Consumption of fixed capital	141,114	146,612	153,040	164,360	169,502	168,101	169,908	172,788
Purchases from enterprises and abroad	341,976	380,710	405,560	438,986	478,587	499,065	555,850	581,855
Less: Purchases by households and enterprises	62,774	62,590	65,952	64,761	82,571	85,908	103,178	113,470
Social transfers in kind - purchased market production	147,658	184,927	181,892	205,124	196,645	198,655	196,094	211,871
General government final consumption expenditure	1,152,699	1,255,683	1,302,439	1,395,850	1,417,379	1,457,177	1,493,465	1,526,504
By classification of the functions of government (COFOG)								
General public services	161,351	167,140	177,340	198,767	212,912	220,623	234,957	235,307
Defence	105,221	113,089	126,171	126,580	129,176	140,887	151,224	158,838
Public order and safety	118,631	128,575	129,871	136,717	133,494	135,064	139,324	141,358
Economic affairs	175,233	191,213	191,408	197,345	203,022	197,605	198,008	193,822
Environmental protection	13,828	17,694	18,404	19,823	19,130	19,209	20,645	22,499
Housing and community amenities	37,327	33,826	39,433	45,494	50,456	45,975	46,672	48,331
Health	190,236	214,218	215,684	244,347	246,432	261,793	265,302	277,203
Recreation, culture and religion	27,842	28,290	27,040	29,850	28,934	27,954	27,995	29,764
Education	305,284	342,370	355,097	375,383	375,331	387,527	389,284	398,829
Social protection	19,777	20,524	22,802	24,014	21,580	23,592	24,049	24,639
General government final consumption expenditure	1,152,698	1,255,682	1,302,438	1,395,850	1,417,379	1,457,177	1,493,465	1,526,504
By type of services								
Collective consumption expenditure	643,223	693,937	731,766	778,452	804,280	817,333	850,839	864,615
Individual consumption expenditure	508,298	559,721	570,272	615,863	613,815	638,954	644,170	662,435
General government final consumption expenditure	1,152,698	1,255,682	1,302,438	1,395,850	1,417,379	1,457,177	1,493,465	1,526,504

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)

	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
By type of expenditure								
Compensation of employees	132.3	138.9	143.9	150.7	151.7	156.7	157.5	158.6
Consumption of fixed capital	123.0	127.7	133.3	143.2	147.7	146.5	148.0	150.5
Purchases from enterprises and abroad	188.2	209.5	223.2	241.6	263.4	274.7	305.9	320.2
Less: Purchases by households and enterprises	294.9	294.1	309.9	304.3	388.0	403.6	484.8	533.1
Social transfers in kind - purchased market production	454.6	569.3	559.9	631.5	605.4	611.5	603.7	652.2
General government final consumption expenditure	151.7	165.2	171.4	183.7	186.5	191.7	196.5	200.9
By classification of the functions of government (COFOG)								
General public services	143.7	148.8	157.9	177.0	189.6	196.4	209.2	209.5
Defence	112.4	120.8	134.8	135.3	138.0	150.6	161.6	169.7
Public order and safety	162.0	175.6	177.4	186.8	182.3	184.5	190.3	193.1
Economic affairs	146.2	159.5	159.6	164.6	169.3	164.8	165.1	161.7
Environmental protection	254.8	326.1	339.2	365.3	352.6	354.0	380.5	414.7
Housing and community amenities	185.1	167.8	195.6	225.6	250.3	228.0	231.5	239.7
Health	198.3	223.3	224.8	254.7	256.9	272.9	276.5	288.9
Recreation, culture and religion	170.2	173.0	165.3	182.5	176.9	170.9	171.1	182.0
Education	140.6	157.7	163.6	172.9	172.9	178.5	179.3	183.7
Social protection	330.1	342.6	380.6	400.8	360.2	393.8	401.4	411.3
General government final consumption expenditure	151.7	165.2	171.4	183.7	186.5	191.7	196.5	200.9
By type of services								
Collective consumption expenditure	147.3	158.9	167.5	178.2	184.1	187.1	194.8	197.9
Individual consumption expenditure	157.3	173.2	176.4	190.6	189.9	197.7	199.3	205.0
General government final consumption expenditure	151.7	165.2	171.4	183.7	186.5	191.7	196.5	200.9

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

	2009	2010	2011	2012r	2013r	2014r	2015r	2016p	Percent
By type of expenditure									
Compensation of employees	5.8	5.0	3.6	4.7	0.7	3.3	0.5	0.7	
Consumption of fixed capital	3.6	3.9	4.4	7.4	3.1	-0.8	1.1	1.7	
Purchases from enterprises and abroad	22.9	11.3	6.5	8.2	9.0	4.3	11.4	4.7	
Less: Purchases by households and enterprises	97.4	-0.3	5.4	-1.8	27.5	4.0	20.1	10.0	
Social transfers in kind - purchased market production	44.3	25.2	-1.6	12.8	-4.1	1.0	-1.3	8.0	
General government final consumption expenditure	10.4	8.9	3.7	7.2	1.5	2.8	2.5	2.2	
By classification of the functions of government (COFOG)									
General public services	9.6	3.6	6.1	12.1	7.1	3.6	6.5	0.1	
Defence	5.9	7.5	11.6	0.3	2.1	9.1	7.3	5.0	
Public order and safety	4.5	8.4	1.0	5.3	-2.4	1.2	3.2	1.5	
Economic affairs	7.4	9.1	0.1	3.1	2.9	-2.7	0.2	-2.1	
Environmental protection	54.0	28.0	4.0	7.7	-3.5	0.4	7.5	9.0	
Housing and community amenities	21.5	-9.4	16.6	15.4	10.9	-8.9	1.5	3.6	
Health	16.2	12.6	0.7	13.3	0.9	6.2	1.3	4.5	
Recreation, culture and religion	-4.3	1.6	-4.4	10.4	-3.1	-3.4	0.1	6.3	
Education	10.9	12.1	3.7	5.7	0.0	3.2	0.5	2.5	
Social protection	32.9	3.8	11.1	5.3	-10.1	9.3	1.9	2.5	
General government final consumption expenditure	10.4	8.9	3.7	7.2	1.5	2.8	2.5	2.2	
By type of services									
Collective consumption expenditure	7.4	7.9	5.5	6.4	3.3	1.6	4.1	1.6	
Individual consumption expenditure	14.0	10.1	1.8	8.0	-0.3	4.1	0.8	2.8	
General government final consumption expenditure	10.4	8.9	3.7	7.2	1.5	2.8	2.5	2.2	

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

(Millions of Baht)

	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Construction	801,107	896,772	916,456	1,036,338	1,052,167	1,038,061	1,159,732	1,223,200
<i>Private</i>	349,155	409,351	469,477	523,806	555,072	543,891	529,357	524,010
<i>Public</i>	451,952	487,421	446,979	512,532	497,095	494,170	630,375	699,190
Equipment	1,430,910	1,696,395	2,004,837	2,299,359	2,226,159	2,224,717	2,210,209	2,261,145
<i>Private</i>	1,233,220	1,522,802	1,807,446	2,083,755	1,986,164	2,028,293	1,975,678	2,031,405
<i>Public</i>	197,690	173,593	197,391	215,604	239,995	196,424	234,531	229,740
Gross fixed capital formation	2,232,017	2,593,167	2,921,293	3,335,697	3,278,326	3,262,778	3,369,941	3,484,345
<i>Private</i>	1,582,374	1,932,152	2,276,923	2,607,561	2,541,236	2,572,184	2,505,035	2,555,415
<i>Public</i>	649,643	661,015	644,370	728,136	737,090	690,594	864,906	928,930
Change in inventories	-238,816	147,418	107,991	127,344	267,804	-98,217	-304,605	-420,725
Gross capital formation	1,993,202	2,740,586	3,029,284	3,463,041	3,546,130	3,164,561	3,065,336	3,063,620

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

(Millions of Baht)

	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Construction	615,613	674,138	642,821	691,834	691,867	677,748	784,133	847,194
<i>Private</i>	273,030	311,650	332,572	358,418	372,965	360,653	361,713	365,590
<i>Public</i>	340,305	360,463	309,332	332,440	318,683	316,664	420,053	478,421
Equipment	1,174,241	1,324,199	1,455,284	1,632,021	1,608,039	1,571,194	1,555,751	1,556,841
<i>Private</i>	1,015,776	1,192,821	1,314,883	1,483,403	1,440,338	1,436,149	1,396,023	1,400,840
<i>Public</i>	157,786	132,078	141,285	149,752	168,301	136,581	160,781	157,170
Gross fixed capital formation	1,795,686	2,003,971	2,101,552	2,326,977	2,303,441	2,252,515	2,349,909	2,416,026
<i>Private</i>	1,288,882	1,504,188	1,646,895	1,840,836	1,813,138	1,795,944	1,757,492	1,766,255
<i>Public</i>	499,211	495,033	452,317	484,060	487,714	455,702	585,133	640,828
Change in inventories	-183,422	107,396	68,204	81,946	174,693	-63,572	-117,025	-347,639
Gross capital formation	1,621,575	2,140,248	2,196,846	2,439,871	2,517,647	2,206,865	2,247,653	2,157,977

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)

	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Construction	129.8	142.1	135.5	145.9	145.9	142.9	165.3	178.6
<i>Private</i>	137.4	156.8	167.3	180.3	187.6	181.4	182.0	183.9
<i>Public</i>	123.5	130.8	112.3	120.7	115.7	114.9	152.5	173.7
Equipment	148.6	167.6	184.2	206.6	203.6	198.9	196.9	197.1
<i>Private</i>	150.4	176.7	194.7	219.7	213.3	212.7	206.8	207.5
<i>Public</i>	137.5	115.1	123.1	130.5	146.7	119.0	140.1	137.0
Gross fixed capital formation	142.0	158.5	166.2	184.1	182.2	178.2	185.9	191.1
<i>Private</i>	147.5	172.1	188.4	210.6	207.5	205.5	201.1	202.1
<i>Public</i>	127.9	126.9	115.9	124.0	125.0	116.8	149.9	164.2
Change in inventories								
Gross capital formation	123.6	163.1	167.4	185.9	191.9	168.2	171.3	164.4

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

	2009	2010	2011	2012r	2013r	2014r	2015r	2016p	Percent
Construction	4.2	9.5	-4.6	7.6	0.0	-2.0	15.7	8.0	
<i>Private</i>	-7.3	14.1	6.7	7.8	4.1	-3.3	0.3	1.1	
<i>Public</i>	14.6	5.9	-14.2	7.5	-4.1	-0.6	32.6	13.9	
Equipment	-18.0	12.8	9.9	12.1	-1.5	-2.3	-1.0	0.1	
<i>Private</i>	-20.0	17.4	10.2	12.8	-2.9	-0.3	-2.8	0.3	
<i>Public</i>	-3.1	-16.3	7.0	6.0	12.4	-18.8	17.7	-2.2	
Gross fixed capital formation	-10.9	11.6	4.9	10.7	-1.0	-2.2	4.3	2.8	
<i>Private</i>	-17.4	16.7	9.5	11.8	-1.5	-0.9	-2.1	0.5	
<i>Public</i>	8.9	-0.8	-8.6	7.0	0.8	-6.6	28.4	9.5	
Change in inventories									
Gross capital formation	-24.8	32.0	2.6	11.1	3.2	-12.3	1.8	-4.0	

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

	(Millions of Baht)							
	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Construction	801,107	896,772	916,456	1,036,338	1,052,167	1,038,062	1,159,732	1,223,200
Private	349,155	409,351	469,477	523,806	555,072	543,891	529,357	524,010
Dwellings	199,226	223,833	251,738	283,386	306,479	306,604	295,710	293,168
Non-dwelling construction	109,595	129,296	149,953	169,580	173,431	161,304	158,754	147,773
Other construction	30,138	44,081	54,426	56,096	56,850	58,478	57,532	65,225
Costs of ownership transfer	10,196	12,141	13,360	14,744	18,312	17,505	17,361	17,844
Public	451,952	487,421	446,979	512,532	497,095	494,171	630,375	699,190
Dwellings	30,665	44,023	43,443	40,705	22,784	22,108	18,863	18,080
Non-dwelling construction	66,067	77,640	75,250	90,723	104,906	100,818	149,717	129,550
Other construction	355,220	365,758	328,286	381,104	369,405	371,245	461,795	551,560
Machinery and other equipment	1,430,910	1,696,395	2,004,837	2,299,359	2,226,159	2,224,717	2,210,209	2,261,145
Transport equipment	466,343	636,991	874,872	1,045,955	1,037,788	919,411	881,362	864,333
Road motor equipment	389,117	550,099	639,317	829,384	808,844	771,639	757,286	730,921
Other vehicles	77,226	86,892	235,555	216,571	228,944	147,772	124,076	133,412
Machinery and equipment	964,567	1,059,404	1,129,965	1,253,404	1,188,371	1,305,305	1,328,847	1,396,812
Industrial machinery	574,638	636,389	668,910	782,207	719,089	739,746	710,080	640,979
Office equipment	389,929	423,015	461,055	471,197	469,282	565,559	618,767	755,833
Gross fixed capital formation	2,232,017	2,593,167	2,921,293	3,335,697	3,278,326	3,262,778	3,369,941	3,484,345

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

	(Millions of Baht)							
	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Construction	615,613	674,138	642,821	691,833	691,866	677,747	784,131	847,191
Private	273,030	311,650	332,572	358,419	372,966	360,654	361,714	365,590
Dwellings	156,774	170,687	176,206	192,740	203,295	200,327	198,656	203,129
Non-dwelling construction	84,314	97,302	106,949	114,905	116,299	106,615	108,127	103,663
Other construction	22,409	32,271	37,177	37,718	38,061	39,022	40,091	43,317
Costs of ownership transfer	8,950	10,320	10,934	11,685	14,201	13,547	13,753	14,497
Public	340,305	360,463	309,332	332,439	318,682	316,663	420,051	478,419
Dwellings	24,131	33,571	30,410	27,189	15,175	14,685	12,455	12,477
Non-dwelling construction	50,828	58,430	52,952	60,617	69,171	65,448	96,234	87,212
Other construction	264,138	267,779	225,524	244,139	233,873	235,920	310,447	378,747
Machinery and other equipment	1,174,241	1,324,199	1,455,284	1,632,023	1,608,042	1,571,197	1,555,753	1,556,844
Transport equipment	401,479	536,801	687,992	789,617	791,503	713,247	684,793	658,797
Road motor equipment	327,323	450,703	504,408	638,125	639,905	587,252	569,070	539,856
Other vehicles	70,678	80,300	185,523	153,821	153,953	129,709	118,484	123,658
Machinery and equipment	767,011	787,330	778,798	857,542	832,717	868,872	878,732	901,882
Industrial machinery	458,301	462,616	457,648	531,056	505,356	479,981	469,249	418,087
Office equipment	308,027	323,938	320,380	325,213	326,296	387,278	408,747	483,015
Gross fixed capital formation	1,795,686	2,003,971	2,101,552	2,326,977	2,303,441	2,252,515	2,349,909	2,416,026

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)

	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Construction	129.8	142.1	135.5	145.9	145.9	142.9	165.3	178.6
Private	137.4	156.8	167.3	180.3	187.6	181.4	182.0	183.9
<i>Dwellings</i>	150.7	164.0	169.3	185.2	195.4	192.5	190.9	195.2
<i>Non-dwelling construction</i>	131.3	151.6	166.6	179.0	181.1	166.1	168.4	161.5
<i>Other construction</i>	98.6	142.0	163.5	165.9	167.4	171.7	176.4	190.5
<i>Costs of ownership transfer</i>	115.2	132.9	140.8	150.5	182.9	174.4	177.1	186.7
Public	123.5	130.8	112.3	120.7	115.7	114.9	152.5	173.7
<i>Dwellings</i>	298.7	415.5	376.4	336.5	187.8	181.7	154.1	154.4
<i>Non-dwelling construction</i>	138.3	159.0	144.1	165.0	188.2	178.1	261.9	237.3
<i>Other construction</i>	114.5	116.1	97.8	105.8	101.4	102.3	134.6	164.2
Machinery and other equipment	148.6	167.6	184.2	206.6	203.6	198.9	196.9	197.1
Transport equipment	177.3	237.1	303.9	348.8	349.6	315.0	302.5	291.0
<i>Road motor equipment</i>	184.5	254.0	284.3	359.6	360.6	331.0	320.7	304.3
<i>Other vehicles</i>	144.3	164.0	378.9	314.2	314.4	264.9	242.0	252.6
Machinery and equipment	136.1	139.7	138.2	152.2	147.8	154.2	155.9	160.0
<i>Industrial machinery</i>	141.4	142.8	141.2	163.9	155.9	148.1	144.8	129.0
<i>Office equipment</i>	128.6	135.3	133.8	135.8	136.3	161.7	170.7	201.7
Gross fixed capital formation	142.0	158.5	166.2	184.1	182.2	178.2	185.9	191.1

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

	2009	2010	2011	2012r	2013r	2014r	2015r	2016p	Percent
Construction	4.2	9.5	-4.6	7.6	0.0	-2.0	15.7	8.0	
Private	-7.3	14.1	6.7	7.8	4.1	-3.3	0.3	1.1	
<i>Dwellings</i>	-11.7	8.9	3.2	9.4	5.5	-1.5	-0.8	2.3	
<i>Non-dwelling construction</i>	-4.0	15.4	9.9	7.4	1.2	-8.3	1.4	-4.1	
<i>Other construction</i>	20.0	44.0	15.2	1.5	0.9	2.5	2.7	8.0	
<i>Costs of ownership transfer</i>	-15.6	15.3	5.9	6.9	21.5	-4.6	1.5	5.4	
Public	14.6	5.9	-14.2	7.5	-4.1	-0.6	32.6	13.9	
<i>Dwellings</i>	-35.5	39.1	-9.4	-10.6	-44.2	-3.2	-15.2	0.2	
<i>Non-dwelling construction</i>	1.7	15.0	-9.4	14.5	14.1	-5.4	47.0	-9.4	
<i>Other construction</i>	25.0	1.4	-15.8	8.3	-4.2	0.9	31.6	22.0	
Machinery and other equipment	-18.0	12.8	9.9	12.1	-1.5	-2.3	-1.0	0.1	
Transport equipment	-14.8	33.7	28.2	14.8	0.2	-9.9	-4.0	-3.8	
<i>Road motor equipment</i>	-11.3	37.7	11.9	26.5	0.3	-8.2	-3.1	-5.1	
<i>Other vehicles</i>	-32.3	13.6	131.0	-17.1	0.1	-15.7	-8.7	4.4	
Machinery and equipment	-19.6	2.6	-1.1	10.1	-2.9	4.3	1.1	2.6	
<i>Industrial machinery</i>	-20.9	0.9	-1.1	16.0	-4.8	-5.0	-2.2	-10.9	
<i>Office equipment</i>	-17.7	5.2	-1.1	1.5	0.3	18.7	5.5	18.2	
Gross fixed capital formation	-10.9	11.6	4.9	10.7	-1.0	-2.2	4.3	2.8	

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

	(Millions of Baht)							
	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Tangible fixed assets	2,187,386	2,532,035	2,850,791	3,252,695	3,182,925	3,162,776	3,270,638	3,359,799
<i>Dwellings</i>	229,891	267,856	295,181	324,091	329,263	328,712	314,573	311,248
<i>Other buildings and structures</i>	555,478	596,967	579,227	663,573	668,291	654,660	800,134	829,525
<i>Machinery and equipment</i>	1,398,724	1,664,109	1,973,897	2,262,102	2,180,542	2,174,939	2,151,381	2,212,751
<i>Cultivated assets</i>	3,293	3,103	2,486	2,929	4,829	4,465	4,550	6,275
Intangible fixed assets	34,435	48,992	57,142	68,258	77,089	82,497	81,942	106,702
<i>Mineral exploration</i>	4,838	18,187	27,724	32,875	35,151	35,985	32,462	63,238
<i>Computer software</i>	29,597	30,805	29,418	35,383	41,938	46,512	49,480	43,464
Costs of ownership transfer	10,196	12,140	13,360	14,744	18,312	17,505	17,361	17,844
Gross fixed capital formation	2,232,017	2,593,167	2,921,293	3,335,697	3,278,326	3,262,778	3,369,941	3,484,345

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

	(Millions of Baht)							
	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Tangible fixed assets	1,759,142	1,955,311	2,047,632	2,265,181	2,232,179	2,175,996	2,272,831	2,323,893
<i>Dwellings</i>	180,903	204,255	206,614	219,928	218,253	214,799	210,935	215,422
<i>Other buildings and structures</i>	418,123	441,339	401,771	432,953	463,032	455,846	609,222	628,914
<i>Machinery and equipment</i>	1,147,891	1,298,575	1,431,950	1,602,684	1,532,241	1,485,895	1,435,132	1,461,485
<i>Cultivated assets</i>	2,687	2,520	1,757	4,267	16,513	21,385	24,709	32,426
Intangible fixed assets	27,924	38,798	43,546	50,830	58,632	65,078	65,125	81,337
<i>Mineral exploration</i>	4,102	15,232	22,318	26,044	28,365	28,683	26,364	50,079
<i>Computer software</i>	23,868	24,096	22,168	25,883	31,404	37,455	39,845	32,757
Costs of ownership transfer	8,951	10,321	10,936	11,687	14,203	13,550	13,755	14,499
Gross fixed capital formation	1,795,686	2,003,971	2,101,552	2,326,977	2,303,441	2,252,515	2,349,909	2,416,026

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)**

	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Tangible fixed assets	140.9	156.7	164.1	181.5	178.8	174.3	182.1	186.2
<i>Dwellings</i>	161.3	182.1	184.2	196.1	194.6	191.5	188.1	192.1
<i>Other buildings and structures</i>	119.2	125.8	114.5	123.4	132.0	130.0	173.7	179.3
<i>Machinery and equipment</i>	147.4	166.7	183.8	205.8	196.7	190.8	184.3	187.6
<i>Cultivated assets</i>	42.7	40.0	27.9	67.8	262.3	339.7	392.5	515.0
Intangible fixed assets	334.1	464.1	521.0	608.1	701.4	778.5	779.1	973.0
<i>Mineral exploration</i>	493.0	1,830.8	2,682.5	3,130.3	3,409.2	3,447.5	3,168.8	6,019.1
<i>Computer software</i>	317.1	320.1	294.5	343.9	417.2	497.6	529.4	435.2
Costs of ownership transfer	115.3	132.9	140.8	150.5	182.9	174.5	177.1	186.7
Gross fixed capital formation	142.0	158.5	166.2	184.1	182.2	178.2	185.9	191.1

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

	Percent							
	2009	2010	2011	2012r	2013r	2014r	2015r	2016p
Tangible fixed assets	-11.1	11.2	4.7	10.6	-1.5	-2.5	4.5	2.2
<i>Dwellings</i>	-15.9	12.9	1.2	6.4	-0.8	-1.6	-1.8	2.1
<i>Other buildings and structures</i>	15.8	5.6	-9.0	7.8	6.9	-1.6	33.6	3.2
<i>Machinery and equipment</i>	-18.5	13.1	10.3	11.9	-4.4	-3.0	-3.4	1.8
<i>Cultivated assets</i>	-25.4	-6.2	-30.3	142.9	286.9	29.5	15.5	31.2
Intangible fixed assets	11.4	38.9	12.2	16.7	15.3	11.0	0.1	24.9
<i>Mineral exploration</i>	1.4	271.3	46.5	16.7	8.9	1.1	-8.1	90.0
<i>Computer software</i>	13.3	1.0	-8.0	16.8	21.3	19.3	6.4	-17.8
Costs of ownership transfer	-15.5	15.3	6.0	6.9	21.5	-4.6	1.5	5.4
Gross fixed capital formation	-10.9	11.6	4.9	10.7	-1.0	-2.2	4.3	2.8

National income

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

	(Millions of Baht)						
	2010	2011	2012r	2013r	2014r	2015r	2016p
Compensation of employees	3,231,751	3,430,944	3,812,499	4,041,907	4,323,540	4,547,812	4,724,692
Wages and salaries	2,860,934	3,033,299	3,393,830	3,600,119	3,839,449	4,021,266	4,149,299
Employers' social contributions	370,817	397,645	418,669	441,788	484,091	526,546	575,393
<i>Employers' actual social contributions</i>	112,828	120,355	118,036	136,318	158,414	166,697	170,363
<i>Employers' imputed social contributions</i>	257,989	277,290	300,633	305,470	325,677	359,849	405,030
Households mixed income and operating surplus	2,619,903	2,812,244	2,833,321	2,664,142	2,629,119	2,543,017	2,783,687
Households property income receivable	663,204	700,534	865,923	986,605	1,021,446	1,070,610	1,051,186
Interest	173,690	221,526	280,637	305,576	291,901	272,683	251,931
Distributed income of corporations	310,151	295,939	376,825	456,116	491,415	553,761	543,533
Investment income disbursements	107,655	109,496	126,718	139,943	155,102	163,185	173,628
Rent	71,709	73,573	81,743	84,969	83,028	80,981	82,095
General government property income receivable	136,823	165,526	178,784	194,127	209,437	222,964	214,576
Interest	29,649	31,692	39,719	43,696	43,113	45,753	44,737
Distributed income of corporations	71,524	90,254	86,628	104,330	119,288	129,996	120,105
Investment income disbursements	23,957	28,260	32,132	34,737	37,733	39,967	43,406
Rent	11,693	15,320	20,305	11,364	9,303	7,248	6,328
Appropriated corporation profit	1,353,383	1,485,368	1,339,442	1,299,455	1,425,253	1,464,720	1,729,001
Savings of corporations	954,718	1,082,153	966,241	805,328	930,338	940,321	1,250,864
Corporate current taxes on income	525,261	652,921	660,416	704,087	662,078	653,868	642,205
Corporate transfer payments	-126,596	-249,706	-287,215	-209,961	-167,163	-129,469	-164,068
<i>Received by general government</i>	7,146	13,720	17,116	14,452	21,331	29,519	-1,709
<i>Received by households and NPISHs</i>	17,736	18,377	21,738	24,197	21,659	24,718	25,091
<i>Received by Row (net)</i>	-151,478	-281,803	-326,069	-248,610	-210,153	-183,706	-187,450
Households property income payable	202,751	246,497	302,510	344,536	351,154	361,124	370,683
Interest	107,085	144,664	188,635	224,830	230,393	240,176	245,183
Investment income disbursements	23,957	28,260	32,132	34,737	37,733	39,967	43,406
Rent	71,709	73,573	81,743	84,969	83,028	80,981	82,095
General government property income payable	149,192	159,585	179,026	176,429	192,353	197,377	210,630
Interest	125,231	131,321	146,890	141,688	154,616	157,406	167,220
Investment income disbursements	23,957	28,260	32,132	34,737	37,733	39,967	43,406
Rent	4	4	4	4	4	4	4
Net national product at factor cost, (NNP)	7,653,121	8,188,533	8,548,433	8,665,269	9,065,289	9,290,621	9,921,830
Plus: Taxes on production and imports less subsidies	1,111,475	1,107,138	1,284,555	1,339,877	1,270,121	1,404,824	1,449,033
Net national income, (NNI)	8,764,596	9,295,671	9,832,988	10,005,146	10,335,410	10,695,445	11,370,863

Table 51 Savings and gross capital formation

(Millions of Baht)

	2010	2011	2012r	2013r	2014r	2015r	2016p
Private sector	1,932,153	2,276,923	2,607,561	2,541,236	2,572,184	2,505,035	2,555,415
Public sector	661,015	644,370	728,136	737,090	690,594	864,906	928,930
Change in inventories	147,418	107,991	127,344	267,804	-98,217	-304,605	-420,725
Gross domestic capital formation	2,740,586	3,029,284	3,463,041	3,546,130	3,164,561	3,065,336	3,063,620
Net savings	1,610,621	1,817,762	1,655,184	1,470,908	1,447,439	1,559,354	1,889,468
Private sector	1,354,897	1,586,969	1,437,452	1,290,799	1,516,343	1,485,817	1,829,758
Households	588,365	622,527	621,664	600,872	675,216	677,349	805,664
Corporations and cooperatives	766,532	964,442	815,788	689,927	841,127	808,469	1,024,094
Public sector	255,724	230,793	217,732	180,109	-68,904	73,537	59,710
General government	67,538	113,082	67,279	64,708	-158,115	-58,315	-167,060
Public corporations and government enterprises	188,186	117,711	150,453	115,401	89,211	131,852	226,770
Provision for consumption of fixed capital	1,590,776	1,738,526	1,958,158	2,084,525	2,214,196	2,342,578	2,480,248
Statistical discrepancy	-102,142	-234,214	-201,953	-143,926	523	266,534	398,049
Gross savings	3,099,255	3,322,074	3,411,389	3,411,507	3,662,158	4,168,466	4,767,765
Less : Surplus of the nation on current account	358,669	292,790	-51,652	-134,623	497,597	1,103,130	1,704,145
Finance of gross domestic capital formation	2,740,586	3,029,284	3,463,041	3,546,130	3,164,561	3,065,336	3,063,620

Table 52 General government income account

(Millions of Baht)

	2010	2011	2012r	2013r	2014r	2015r	2016p
Income							
Primary income receivable	1,511,467	1,595,731	1,795,800	1,882,825	1,850,760	1,958,142	2,008,413
Gross operation surplus	193,277	209,493	232,355	245,156	249,348	261,017	272,413
Taxes on production and imports	1,181,367	1,220,712	1,384,661	1,443,542	1,391,975	1,474,161	1,521,424
Property income	136,823	165,526	178,784	194,127	209,437	222,964	214,576
Interest	29,649	31,692	39,719	43,696	43,113	45,753	44,737
Dividend	71,524	90,254	86,628	104,330	119,288	129,996	120,105
Investment income payable on pension entitlements	23,957	28,260	32,132	34,737	37,733	39,967	43,406
Rent	11,693	15,320	20,305	11,364	9,303	7,248	6,328
Secondary income receivable	1,705,229	1,836,149	2,133,294	2,115,686	2,042,322	2,191,718	2,293,444
Current taxes on income, wealth, etc.	727,713	886,235	925,098	988,890	915,579	944,050	941,978
Taxes on income	701,328	857,903	892,434	959,843	881,447	906,322	908,726
Other current taxes	26,385	28,332	32,664	29,047	34,132	37,728	33,252
Social contributions	317,727	340,494	356,245	378,522	427,677	459,577	510,635
Other current transfers	659,789	609,420	851,951	748,274	699,066	788,091	840,831
Non-life insurance claims	2	8	21	1	2	1	1
Current transfers within general government	589,381	580,745	814,877	712,042	656,299	734,248	785,206
Current international cooperation	2,818	3,592	5,214	3,120	3,497	2,190	2,950
Miscellaneous current transfers	67,588	25,075	31,839	33,111	39,268	51,652	52,674
Total income receivable	3,216,696	3,431,880	3,929,094	3,998,511	3,893,082	4,149,860	4,301,857
Use of income							
Primary income uses	219,084	273,159	279,132	280,094	314,207	266,714	283,021
Property income	149,192	159,585	179,026	176,429	192,353	197,377	210,630
Interest	125,231	131,321	146,890	141,688	154,616	157,406	167,220
Investment income payable on pension entitlements	23,957	28,260	32,132	34,737	37,733	39,967	43,406
Rent	4	4	4	4	4	4	4
Subsidies	69,892	113,574	100,106	103,665	121,854	69,337	72,391
Secondary income uses	943,137	916,137	1,222,164	1,166,124	1,118,434	1,192,997	1,317,431
Social benefits other than social transfers in kind	293,530	275,045	326,151	330,096	346,702	376,032	421,410
Social security benefits in cash	20,860	22,352	26,986	29,400	30,159	31,710	36,950
Other social insurance benefits	186,434	197,138	215,128	207,476	227,205	251,496	293,880
Social assistance benefits in cash	86,236	55,555	84,037	93,220	89,338	92,826	90,580
Other current transfers	649,607	641,092	896,013	836,028	771,732	816,965	896,021
Net non-life insurance premiums	576	540	480	380	444	196	217
Current transfers within general government	589,381	580,745	814,877	712,042	656,299	734,248	785,206
Current international cooperation	1,631	1,553	1,334	1,375	1,819	1,433	2,451
Miscellaneous current transfers	58,019	58,254	79,322	122,231	113,170	81,088	108,147
Total income payable	1,162,221	1,189,296	1,501,296	1,446,218	1,432,641	1,459,711	1,600,452
Gross disposable income	2,054,475	2,242,584	2,427,798	2,552,293	2,460,441	2,690,149	2,701,405
Final consumption expenditure	1,707,777	1,825,136	2,020,794	2,113,369	2,238,084	2,352,617	2,461,539
Adjustment for the change in pension entitlement	85,883	94,873	107,370	129,060	131,124	134,830	134,513
Net saving	67,538	113,082	67,279	64,708	-158,115	-58,315	-167,060
Consumption of fixed capital	193,277	209,493	232,355	245,156	249,348	261,017	272,413
Total use of gross income	3,216,696	3,431,880	3,929,094	3,998,511	3,893,082	4,149,860	4,301,857

Note: - is zero or rounded to zero

n.a. is not available

Table 53 Households and NPISHs income account

(Millions of Baht)

	2010	2011	2012r	2013r	2014r	2015r	2016p
Income							
Primary income receivable	6,514,858	6,943,722	7,511,743	7,692,653	7,974,105	8,161,439	8,559,566
<i>Compensation of employees</i>	3,231,751	3,430,944	3,812,499	4,041,907	4,323,540	4,547,812	4,724,692
<i>Mixed income</i>	2,619,903	2,812,244	2,833,321	2,664,142	2,629,119	2,543,017	2,783,687
<i>Property income receivable</i>	663,204	700,534	865,923	986,605	1,021,446	1,070,610	1,051,186
Secondary income receivable	463,477	455,138	539,509	612,239	623,930	603,617	663,742
Social benefits other than social transfers in kind ^{1/}	293,530	275,045	326,151	330,096	346,702	376,032	421,410
Other current transfer	169,947	180,093	213,358	282,143	277,228	227,585	242,332
<i>from corporate</i>	17,736	18,377	21,738	24,197	21,659	24,718	25,091
<i>from general government</i>	52,356	54,093	74,899	112,035	105,648	70,632	74,682
<i>from the rest of the world</i>	99,855	107,623	116,721	145,911	149,921	132,235	142,559
Total income receivable	6,978,335	7,398,859	8,051,252	8,304,893	8,598,036	8,765,056	9,223,308
Use of income							
Primary income payable	202,751	246,497	302,510	344,536	351,154	361,124	370,683
Property income payable	202,751	246,497	302,510	344,536	351,154	361,124	370,683
Secondary income payable	633,890	636,464	690,387	741,668	769,348	848,850	921,065
Current taxes on income, wealth, etc.	202,452	233,314	264,682	284,803	253,501	290,182	299,773
Net social security contribution ^{1/}	317,727	340,494	356,245	378,522	427,677	459,577	510,635
Other current transfer	113,711	62,656	69,460	78,343	88,170	99,091	110,657
<i>to general government</i>	54,205	6,662	9,841	8,084	9,973	11,482	20,702
<i>to the rest of the world</i>	59,506	55,994	59,619	70,259	78,197	87,609	89,955
Total income payable	836,641	882,961	992,897	1,086,204	1,120,502	1,209,974	1,291,748
Disposable income	6,141,694	6,515,898	7,058,354	7,218,689	7,477,534	7,555,082	7,931,560
Final consumption expenditure	5,639,212	5,988,244	6,544,061	6,746,876	6,933,442	7,012,564	7,260,409
Adjustment for the change in pension entitlement ^{1/}	85,883	94,873	107,370	129,060	131,124	134,830	134,513
Saving	588,365	622,527	621,663	600,873	675,216	677,348	805,664
Total use of disposable income	6,141,694	6,515,898	7,058,354	7,218,689	7,477,534	7,555,082	7,931,560
Per capita disposable income (Baht)	93,167	98,407	106,153	108,137	111,600	112,367	117,583
Per capita final consumption expenditure (Baht)	85,545	90,438	98,419	101,069	103,480	104,298	107,633
Per capita saving (Baht)	8,925	9,402	9,349	9,001	10,077	10,074	11,944
Population (1,000 Heads)	65,921	66,214	66,492	66,755	67,003	67,236	67,455

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

Table 54 Compensation of employees

(Millions of Baht)

	2010	2011	2012r	2013r	2014r	2015r	2016p
Domestic	3,227,942	3,411,393	3,783,696	4,016,251	4,300,943	4,527,377	4,702,665
Agriculture	146,300	186,587	212,101	214,783	203,083	188,743	189,990
Agriculture, forestry and fishing	146,300	186,587	212,101	214,783	203,083	188,743	189,990
Non-Agriculture	3,081,642	3,224,806	3,571,595	3,801,468	4,097,860	4,338,634	4,512,675
Mining and quarrying	19,293	21,053	25,513	30,216	31,201	29,617	28,642
Manufacturing	887,526	878,969	985,451	1,039,349	1,148,327	1,218,929	1,253,380
Electricity, gas, steam and air conditioning supply	79,181	79,293	81,010	83,838	84,461	96,286	101,275
Water supply; sewerage, waste management and remediation activities	7,452	7,500	8,539	9,331	9,842	10,882	11,129
Construction	174,245	169,237	185,182	195,416	192,060	198,001	209,658
Wholesale and retail trade; repair of motor vehicles and motorcycles	282,739	299,435	335,914	367,277	407,810	426,272	449,971
Transportation and storage	124,141	127,156	137,314	145,957	151,707	163,781	168,755
Accommodation and food service activities	70,874	81,333	90,105	103,605	117,385	133,374	147,132
Information and communication	50,989	59,040	64,430	69,178	67,332	72,540	73,281
Financial and insurance activities	201,590	225,224	249,767	270,241	290,552	308,764	321,060
Real estate activities	38,533	40,476	43,785	46,365	47,849	50,094	50,831
Professional, scientific and technical activities	54,845	59,057	67,219	69,195	71,510	74,336	74,953
Administrative and support service activities	47,804	53,429	56,409	54,548	56,288	58,254	59,580
Public administration and defence; compulsory social security	476,507	502,811	534,908	557,649	596,040	623,264	649,947
Education	374,581	414,416	470,517	496,414	533,896	559,061	579,462
Human health and social work activities	141,129	152,339	175,645	198,722	223,961	242,068	257,220
Arts, entertainment and recreation	6,272	6,874	8,511	9,832	10,290	11,224	11,757
Other service activities	26,035	26,661	28,753	31,038	32,575	34,078	36,539
Activities of households as employers	17,906	20,503	22,623	23,297	24,774	27,809	28,103
The rest of the world	3,809	19,551	28,803	25,656	22,597	20,435	22,027
Total	3,231,751	3,430,944	3,812,499	4,041,907	4,323,540	4,547,812	4,724,692

Table 55 Households and NPISHs mixed income receivable

(Millions of Baht)

	2010	2011	2012r	2013r	2014r	2015r	2016p
Farm income	740,760	824,338	871,557	893,192	817,123	744,141	750,395
Other	1,879,143	1,987,906	1,961,764	1,770,950	1,811,996	1,798,876	2,033,292
Total	2,619,903	2,812,244	2,833,321	2,664,142	2,629,119	2,543,017	2,783,687

Table 56 Households and NPISHs property income receivable

(Millions of Baht)

	2010	2011	2012r	2013r	2014r	2015r	2016p
Rent	71,709	73,573	81,743	84,969	83,028	80,981	82,095
Actual rent	15,193	14,834	16,312	16,808	16,271	15,867	16,062
Imputed rent	56,516	58,739	65,431	68,161	66,757	65,114	66,033
Interest	173,690	221,526	280,637	305,576	291,901	272,683	251,931
Interest paid by banks to households and NPISHs	139,300	187,215	240,052	273,909	262,294	249,610	223,309
Government bond interest	31,972	30,383	27,848	19,023	18,547	12,592	13,095
Others	4,529	6,925	17,156	17,769	16,174	15,325	19,571
Net interest received from ROW	-2,111	-2,997	-4,418	-5,125	-5,115	-4,844	-4,045
Distributed income of corporations	310,151	295,939	376,825	456,116	491,415	553,761	543,533
Dividends from private corporations	262,893	244,032	319,130	393,692	425,618	483,193	464,684
Dividends from cooperatives	38,986	42,402	47,863	52,938	58,197	62,725	68,481
Dividends from public corporations	8,272	9,505	9,832	9,486	7,600	7,844	10,367
Investment income disbursements	107,655	109,496	126,718	139,943	155,102	163,185	173,628
Beneficiaries from provident fund	26,150	16,446	19,906	21,442	21,884	21,344	19,189
Beneficiaries from government pension fund	15,642	16,695	18,570	19,284	21,145	22,220	21,884
Investment income payable on pension entitlement ^{1/}	23,957	28,260	32,132	34,737	37,733	39,967	43,406
Investment income attributable to insurances policy holder	41,906	48,095	56,110	64,481	74,340	79,654	89,149
Total	663,204	700,534	865,923	986,605	1,021,446	1,070,610	1,051,186

Note : 1/ Governmental funds consist of social security fund (welfare and senility plan), private teacher aid fund,

Bangkok Metropolitan Administration pension fund and local administration pension fund.

Table 57 Household and NPISHs property income payable

(Millions of Baht)

	2010	2011	2012r	2013r	2014r	2015r	2016p
Interest	107,085	144,664	188,635	224,830	230,393	240,176	245,183
Interest paid to banks	56,434	85,292	115,998	139,040	137,290	135,452	130,674
Pawnshop interest	4,981	5,986	7,008	6,814	6,441	6,298	6,515
Interest on loan from life insurance policy	645	698	847	945	1,043	1,137	1,201
Interest paid to cooperatives	42,819	50,239	62,084	74,747	81,834	93,061	100,041
Others	2,206	2,450	2,698	3,285	3,784	4,228	6,751
Investment income disbursements	23,957	28,260	32,132	34,737	37,733	39,967	43,406
Investment income payable on pension entitlement ^{1/}	23,957	28,260	32,132	34,737	37,733	39,967	43,406
Rent	71,709	73,573	81,743	84,969	83,028	80,981	82,095
Total	202,751	246,497	302,510	344,536	351,154	361,124	370,683

Note : 1/ Governmental funds consist of social security fund (welfare and senility plan), private teacher aid fund,

Bangkok Metropolitan Administration pension fund and local administration pension fund.

Table 58 Saving of corporations

(Millions of Baht)

	2010	2011	2012r	2013r	2014r	2015r	2016p
Saving of private corporation	760,809	957,489	808,415	681,323	834,005	798,388	1,013,429
Saving of public corporation and government enterprises	188,186	117,711	150,453	115,401	89,211	131,852	226,770
Saving of cooperatives	5,723	6,953	7,373	8,604	7,122	10,081	10,665
Total	954,718	1,082,153	966,241	805,328	930,338	940,321	1,250,864

Table 59 Corporate transfer payments received by household and NPISHs

(Millions of Baht)

	2010	2011	2012r	2013r	2014r	2015r	2016p
Transfer from private corporation	15,252	14,488	17,987	20,382	18,913	20,271	21,552
Transfer from public corporation and government enterprises	1,775	3,093	3,194	2,668	2,312	3,277	2,258
Transfer from cooperatives	709	796	558	1,147	434	1,170	1,281
Total	17,736	18,377	21,738	24,197	21,659	24,718	25,091

Table 60 Taxes

(Millions of Baht)

	2010	2011	2012r	2013r	2014r	2015r	2016p
Taxes							
Current taxes on income, wealth, etc.	727,713	886,235	925,098	988,890	915,579	944,050	941,978
Taxes on income	701,328	857,903	892,434	959,843	881,447	906,322	908,726
From corporation	509,426	635,842	641,226	687,298	642,468	632,293	623,236
From households	191,902	222,061	251,208	272,545	238,979	274,029	285,490
Other current taxes	26,385	28,332	32,664	29,047	34,132	37,728	33,252
From corporation	15,835	17,079	19,190	16,789	19,610	21,575	18,969
From households	10,550	11,253	13,474	12,258	14,522	16,153	14,283
Taxes on production and imports	1,181,367	1,220,712	1,384,661	1,443,542	1,391,975	1,474,161	1,521,424
Taxes on products	1,111,386	1,145,656	1,303,706	1,351,505	1,303,157	1,388,262	1,421,516
Value added type taxes (VAT)1/	391,643	450,545	507,039	522,724	531,117	556,593	557,872
Taxes and duties on imports excluding VAT	139,216	159,607	211,522	183,960	179,553	185,550	194,093
<i>Import duties</i>	93,788	102,010	120,050	106,972	108,770	112,322	103,471
<i>Taxes on imports excluding VAT and duties</i>	45,428	57,597	91,472	76,988	70,783	73,228	90,622
Export taxes	207	298	270	220	305	189	83
Taxes on products except VAT, import and export taxes	580,320	535,206	584,875	644,601	592,182	645,930	669,468
Other taxes on production	69,981	75,056	80,955	92,037	88,818	85,899	99,908
Total taxes	1,909,080	2,106,947	2,309,759	2,432,432	2,307,554	2,418,211	2,463,402
Subsidies							
Subsidies on products	50,142	93,772	78,879	79,001	94,370	42,702	48,242
<i>Import subsidies</i>	1,801	3,596	3,106	3,041	3,674	787	962
<i>Export subsidies</i>	11,011	13,298	7,235	10,634	9,005	9,815	10,616
<i>Other subsidies on products</i>	37,330	76,878	68,538	65,326	81,691	32,100	36,664
Other subsidies on production	19,750	19,802	21,227	24,664	27,484	26,635	24,149
Total subsidies	69,892	113,574	100,106	103,665	121,854	69,337	72,391
Total taxes on production and imports less subsidies	1,111,475	1,107,138	1,284,555	1,339,877	1,270,121	1,404,824	1,449,033

Note : 1/ VAT originated from 1992

Table 61 Social contributions and social transfers

(Millions of Baht)

	2010	2011	2012r	2013r	2014r	2015r	2016p
Social contributions	317,727	340,494	356,245	378,522	427,677	459,577	510,635
Employers' actual social contributions	50,026	54,105	45,457	57,305	74,522	78,188	81,005
Employers' imputed social contributions	186,434	197,138	215,128	207,476	226,992	251,236	293,611
Households' actual social contributions	57,310	60,991	63,528	79,004	88,430	90,186	92,613
Households' social contributions supplements	23,957	28,260	32,132	34,737	37,733	39,967	43,406
Social benefits other than social transfers in kind	293,530	275,045	326,151	330,096	346,702	376,032	421,410
Social security benefits in cash	20,860	22,352	26,986	29,400	30,159	31,710	36,950
Other social insurance benefits	186,434	197,138	215,128	207,476	227,205	251,496	293,880
Social assistance benefits in cash	86,236	55,555	84,037	93,220	89,338	92,826	90,580
Social transfers in kind	817,330	870,307	982,822	1,012,806	1,096,910	1,147,295	1,212,269
Social transfers in kind - non-market production	603,236	656,899	737,151	774,914	852,780	903,814	947,261
Social transfers in kind - purchased market production	214,094	213,408	245,671	237,892	244,130	243,481	265,008
<i>Social security benefits, reimbursements</i>	2,681	2,655	3,114	3,106	3,739	5,052	5,847
<i>Other social security benefits in kind</i>	24,470	25,946	31,446	31,973	31,625	37,253	40,888
<i>Social assistance benefits in kind</i>	186,943	184,807	211,111	202,813	208,766	201,176	218,273

Note : The government social security plans included in government account comprise 6 funds as below:

- 1 Social security fund
- 2 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

For further information, please contact us via e-mails or call 0-2280-4085 with following extension numbers:

National Accounts Director-General : Apichai Thamsermsukh Tel: 0-2280-4085 ต่อ/ ext. 6501 e-mail: apichai-t@nesdb.go.th

ตาราง / Tables	ผู้ประสานงาน / Coordinators	e-mail address	ต่อ / Ext. No.
Main Accounts			
Account 1. Production account	Peeranat Dangskul	peeranat@nesdb.go.th	6521
Account 2. Generation of income account	Sivalee Tiewsangwan	sivalee@nesdb.go.th	6525
	Natsuda Phetchnoon	natsuda@nesdb.go.th	6512
Account 3. Allocation of primary income account	Sivalee Tiewsangwan	sivalee@nesdb.go.th	6525
	Natsuda Phetchnoon	natsuda@nesdb.go.th	6512
Account 4. Secondary distribution of income account	Natsuda Phetchnoon	natsuda@nesdb.go.th	6512
Account 5. Use of disposable income account	Thanapat Suntivong	thanapat@nesdb.go.th	6513
	Boonyisa Augsonsiriopas	boonyisa@nesdb.go.th	6518
Account 6. Redistribution of income in kind account	Natsuda Phetchnoon	natsuda@nesdb.go.th	6512
Account 7. Use of adjusted disposable income account	Natsuda Phetchnoon	natsuda@nesdb.go.th	6512
Account 8. External income account	Sivalee Tiewsangwan	sivalee@nesdb.go.th	6525
Gross Domestic Product, Chain Volume Measures			
Table 1 - 2.3	Peeranat Dangskul	peeranat@nesdb.go.th	6521
Gross Domestic Product (Production)			
Table 3 - 5.3	Peeranat Dangskul	peeranat@nesdb.go.th	6521
Table 6 - 7.2	Mattanee Phumklai	mattanee@nesdb.go.th	6523
Table 8 - 11.2	Peeranat Dangskul	peeranat@nesdb.go.th	6521
Table 12 - 15.2	Mattanee Phumklai	mattanee@nesdb.go.th	6523
Table 16 - 17.2	Jindarat Shibue	jindarat-s@nesdb.go.th	6509
Table 18 - 21.2	Peeranat Dangskul	peeranat@nesdb.go.th	6521
Table 22 - 23.2	Kullatree Kitjaruwong	kullatree@nesdb.go.th	6524
Table 24 - 25.2	Peeranat Dangskul	peeranat@nesdb.go.th	6521
Table 26 - 27.2	Udomsuk Khieopong	udomsuk@nesdb.go.th	6506
Table 28 - 37.2	Kullatree Kitjaruwong	kullatree@nesdb.go.th	6524
Gross Domestic Product (Expenditure)			
<i>Private final consumption expenditure</i>			
Table 38 - 41.2	Phirunthip Sukneongbung	phirunthip@nesdb.go.th	6505
	Boonyisa Augsonsiriopas	boonyisa@nesdb.go.th	6518
<i>General government final consumption expenditure</i>			
Table 42 - 43.2	Thanapat Suntivong	thanapat@nesdb.go.th	6513
	Jaruwan Poolsuk	jaruwan@nesdb.go.th	6514
Capital formation			
Table 44 - 49.2	Jindarat Shibue	jindarat-s@nesdb.go.th	6509
	Supaporn Wareerat	supaporn_c@nesdb.go.th	6510
National Income			
Table 50 - 51	Sivalee Tiewsangwan	sivalee@nesdb.go.th	6525
	Santi Srisomboon	santi@nesdb.go.th	6526
Table 52	Natsuda Phetchnoon	natsuda@nesdb.go.th	6512
	Jaruwan Poolsuk	jaruwan@nesdb.go.th	6514
Table 53 - 54	Sivalee Tiewsangwan	sivalee@nesdb.go.th	6525
	Santi Srisomboon	santi@nesdb.go.th	6526
Table 55	Santi Srisomboon	santi@nesdb.go.th	6526
Table 56 - 57	Santi Srisomboon	santi@nesdb.go.th	6526
Table 58 - 59	Sivalee Tiewsangwan	sivalee@nesdb.go.th	6525
Table 60 - 61	Natsuda Phetchnoon	natsuda@nesdb.go.th	6512
	Jaruwan Poolsuk	jaruwan@nesdb.go.th	6514