

KBW Large Bank Index (Executive Compensation)

			CEO Compensation	
Bank Name	Symbol	% Wt	Total \$ Comp	Incentive % Total
Wells Fargo Company	WFC	9.20	16,194,279	72.0%
J.P. Morgan Chase	JPM	9.09	20,713,613	93.3%
Bank of America	BAC	8.27	23,377,019	78.8%
Citigroup	С	7.09	31,612,143	96.1%
Wachovia	WB	5.88	6,850,876	77.8%
PNC Financial Services	PNC	4.61	22,559,679	76.1%
BB&T	BBT	4.50	5,230,839	50.1%
US Bancorp	USB	4.47	2,332,744	36.8%
Northern Trust	NTRS	4.23	13,256,717	79.7%
Capital One Financial	COF	4.14	73,182,560	99.9%
State Street	STT	4.00	27,988,591	69.6%
Bank of New York Mellon	BK	3.90	18,334,887	62.2%
SunTrust Banks	STI	3.81	2,068,043	38.1%
M & T Bank	MTB	3.80	10,159,716	91.4%
Regions Financial	RF	3.69	4,630,046	27.5%
KeyCorp	KEY	3.24	7,844,982	39.7%
Fifth Third Bancorp	FITB	2.93	4,259,530	76.0%
Zions Bancorporation	ZION	2.54	3,705,189	74.1%
Comerica	CMA	2.44	8,384,985	68.0%
People's United Financial	PBCT	2.30	5,082,234	61.5%
Washington Mutual	WM	1.93	4,866,377	71.3%
Marshall & Ilsley	MI	1.63	1,345,982	23.5%
National City	NCC	1.11	1,441,853	11.9%
Huntington Bancshares	HBAN	1.07	1,088,129	0.0%
Stocks		99.87		
Source: The Corporate Llibra	iry www.The	CorporateL	ibrary.com (June	2008)

- Microeconomics is the study of how individual households and firms make decisions and how they interact with one another in markets.
- Macroeconomics is the study of the economy as a whole. Its goal is to explain the economic changes that affect many households, firms, and markets at once.
- Macroeconomics answers questions like the following:
 - □ Why is average income high in some countries and low in others?
 - □ Why do prices rise rapidly in some time while it is stable in others?
 - Why do production and employment expand and/or contract in others?
- When judging whether the economy is doing well or poorly, it is natural to look at the total income that everyone in the economy is earning.

What is National Income (NI)?

National income measures the total value of final goods and services produced within the economy over a period of time. It can be calculated in three main ways:

- The sum of factor incomes earned in production;
- Aggregate demand for goods and services;
- The sum of value added from each productive sector of the economy.

Why is NI important?

Measuring the level and rate of growth of national income (Y) is important to economists when they are considering:

- Know about economic growth and business cycle;
- Changes to average living standards of the population;
- Looking at the distribution of national income.

The Circular-Flow Diagram



For an economy as a whole, income must equal expenditure because:

□ Every transaction has a buyer and a seller.

□ Spending by some buyer is a income for some seller.

National Output = National Expenditure = National Income

□ National Income Accounting refers to the measurement of aggregate economic activity, particularly national income and its components.

Accounts showing the levels of total income and spending in Bangladesh economy;

 \geq Allow us to evaluate the performance of the economy of Bangladesh and to compare it with other nations' economies;

 \geq Help government policymakers find ways to improve the economy.

Definition of GDP: Gross domestic product (GDP) is a measure of the income and expenditures of an economy. It is the total market value of all final goods and services produced within a country in a given period of time.

The Measurement of GDP:

- Output is valued at market prices.
- It records only the value of final goods, not intermediate goods (the value is counted only once).
- It includes both tangible goods (food, clothing, cars) and intangible services (haircuts, housecleaning, doctor visits).
- It includes goods and services currently produced, not transactions involving goods produced in the past.
- It measures the value of production within the geographic confines of a country.

GDP Measurement Problems

Non-Market Activities - Goods and services produced that are not sold in a market *Unreported Income* - Market activities not reported to tax or census authorities

GDP per capita

- Total GDP divided by total population; average GDP
- GDP per capita is used as a measure of a country's standard of living
- Measures of per capita GDP tell us nothing about how GDP is actually distributed or used

GDP Measurement Approach

- A. Expenditure approach
- B. Output approach
- C. Income approach

A. Expenditure Approach

GDP = C + I + G + (X - M) + Subsidies

- C = Private consumption expenditure
- I = Investment Expenditure
- G= Government Consumption Expenditure
- X = Value of Exports
- M = Value of Imports

Key Issues:

- Expenditure on final goods and services
- Expenditure on imports needed to be deducted from the calculation

Calculation of Private Consumption (C)

Second Hand Goods
 Ans: Exclude. There is no current production

2. Commission spent on buying a second-hand bag Ans: Include. Current production

3. Expenditure on illegal goods/services Ans: Exclude. No official record

Calculation of Investment Expenditure (I)

I = Gross Domestic Fixed Capital Formation + Change in Stock (Inventories)

Gross Domestic Fixed Capital Formation: Expenditure on purchasing land, factories, flats, office, machinery, commission, legal charges.

Thus,

I = Net domestic fixed capital formation + depreciation + Change in stock

Example

An investor spent Tk. 1 million to buy 10 new machines and spent Tk.20,000 to repair the old machines.

= Net domestic fixed capital formation (Tk 1 million) + depreciation (Tk.20, 000) + repair (Tk.20,000)

Exclusion of Investment expenditure:

Investors spend on intermediate goods and services, e.g. raw materials, electricity charges, water charges

Excluded because the value of the final goods already include the value of the intermediate goods and services.

Calculation of Investment Expenditure (I)

Example 1:

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Change in Stock (Inventories):

Output Value of GM Plastic = Tk.10,000

Sales = Tk.8,000

Stock = +Tk.2,000

GDP = C + I + G + (X - M) = +8000 + 2000 + 0 + (0-0)
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Example 2:

Change in stock: Output value of U2 clothing = Tk.50,000 Sales = Tk.70,000 Stock = - Tk.20,000 GDP= C + I + G + (X- M) = +\$ 70 000 + (-\$20 000) +0+ (0-0)

Government Expenditure (G)

Items to be Included:

Housing allowance of civil servants

Medical allowance of civil servants

Expenditure on building new airport

Items to be Excluded:

Transfer Payment/Public Assistance

Net Exports (X-M)	
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X - M = Domestic Ex	ports of goods	Exports of services
+ Re-exports of g	goods	✓ spending of foreign tourists
+ Exports of Serv	vices	✓ transportation services
- Imports of Goo	ds	 ✓ insurance / banking services ✓ medical services
- Imports of Serv	vices	✓ retail services (souvenirs)
• Count the VALUES	s of import and export	\checkmark hotel accommodation services

Why to deduct import of goods and services? Why exclude it?

- Walton BD Ltd displayed a new LED TV to sell in Dhaka market with a offer price of Tk. 1,60,000
- Walton BD Ltd used some imported material to enhance the aesthetics of LED TV which is valued at Tk. 20,000

GDP = C + I + G + (X - M)

= 160,000 + 0 + 0 + (0 - 20,000)

• It reflects the production by Walton BD Ltd.

Expenditure on shares and stock

Ms Sagarika bought 10,000 Shares of Lanka Bangla Finance at the price of Tk 100.00 per Share. The commission fee given to the share dealer is Tk 5,000 and the stamp duty is Tk.1000. Two weeks later, Ms Sagarika decided to sell it at the price of Tk. 120.00.

How much will be included in Gross Domestic Product?

B. Output Approach⇒ Production (Valued-added) approach

- Measures the total market value of all final goods and services
- It is difficult to distinguish between intermediate goods and final goods.
- To avoid double counting, valued-added method is used.

GDP= sum of value-added

Example

- 1. Farmers' value-added
- 2. Flour-making factory
- 3. Bakery Shop

- = Tk.20 (Wheat) 0 (Cost) = Tk.20
- = Tk.35 (Flour) Tk.20 (Wheat) = Tk.15
- = Tk.50 (Bread) Tk.35 (Flour) = Tk.25

C. Income approach

Measure the sum of income for the factors of production. The rewards to their production of goods and provision of services.

Income Included or Excluded?

- Scholarships to students
- Commission received by stock brokers
- Insurance compensation to injured workers
- Gift cheque to a bride

GDP at factor cost

In theory, no government intervention.

Let's take example that local production of cigarettes Tk. 80

So, here Market value = factor income = total cost = total value-added = Tk.80

But if there is indirect tax or subsidies, Market value \neq total value-added

Example 1: Cigarettes	Example 2 : Education in university
Market price of cigarettes = Tk. 80	Subsidy = $Tk.20$
Indirect business $tax = Tk. 4$	School fee = $Tk.120$
GDP at market price $=$ Tk. 84	GDP at market price = $Tk.120$
GDP at factor $cost = Tk \ 84 - 4$	GDP at factor cost =Tk $(120+20)$ = Tk.140
= Tk. 80	So, total value-added in university = Tk.140
So, total value-added is Tk.80.00	

GDP at factor cost (total value-added)

= GDP at market price – indirect business tax (IBT) + Subsidies (S)

Three formula:

- GDP at market price = C+I+G+(X-M)
- GDP at factor cost = sum of value added
- \blacktriangleright GDP at factor cost = wage + rent + interest + gross profits + depreciation
- GDP at factor cost + indirect business taxes subsidies = GDP at market price

Gross National Product (GNP)

- It measures the total income earned by residents of an economy from engaging in various economic activities, irrespective of whether the economic activities are carried out within the economic territory or outside, in a specified period.
 - ➢ Income earned involved in economic activities (production) and
 - Income earned by residents (individuals / organizations) and
 - \succ The economic activities are carried out within or outside the economic territory and
 - \succ In a current year

From GDP to GNP:

- GNP = GDP + Income earned by residents outside the economic territory Income earned by non-residents within the economic territory.
- GNP = GDP + Net Factor Income from abroad (NIA)
- NIA = Net External factor income flows

GDP Versus GNP

- Gross National Product (GNP): Output produced by a nation's factors of production no matter where it takes place
- *GDP* is geographically focused, including only output produced within a nation's borders regardless of whose factors are used.

Under what situation when GDP is greater than GNP?

- Income earned by non-residents locally is greater than income earned by residents abroad
- Net Income from abroad is negative

• If the money GDP growth rate is greater than the inflation rate, It implies that the output increases in the current year. Then the real GDP increases in comparison.

• The growth rate can be positive and negative. If the growth rate is negative, it implies that the new one is less than the old one.

• LDC= GDP>GNP Why?

They have few companies abroad that are repatriating income.

• NNP = GNP-Depreciation

GDP Real vs. Nominal

- Nominal = face value
- Real = adjusted for inflation
- GDPr = GDPnom/CPI X 100

CPI

Base Line= 100 CPI of 106 = 6% increase in prices

GDP Deflator

CPI: only consumer goods GDP Deflator: All goods in GDP

GDPreal = GDP nom / Deflator X 100

□ Real Income per capita: adjusted for inflation

□International Comparisons of GDP

International Comparisons are difficult for a number of reasons:

- 1. Different countries use different national income accounting systems
- 2. International exchange rates into dollars fluctuate
- 3. Data from other countries may be unreliable

GDP and Economic Well-Being:

Higher GDP per person indicates a higher standard of living. GDP is not a perfect measure of the happiness or quality of life, however.

Some things that contribute to well-being are not included in GDP.

- The value of leisure.
- □The value of a clean environment.
- The value of almost all activity that takes place outside of markets, such as the value of the time parents spend with their children and the value of volunteer work.

Figure 10.3: Canada's Gross Domestic Product (1993)

Income Approach (\$ billions)		Expenditure Approach (\$ billions)		
Wages and salaries	402.5	Personal consumption (C)	432.9	
Corporate profits	38.2	Gross investment (I)	130.2	
Interest income	50.7	Government purchases (G)	150.8	
Proprietors' incomes and rents	43.0	Net exports (X – M)	-0.8	
Indirect taxes	89.4	Statistical discrepancy	-2.4	
Depreciation	84.5			
Statistical discrepancy	2.4			
Gross Domestic Product	710.7	Gross Domestic Product	710.7	

With the income approach, GDP is the sum of incomes and balancing items, as shown on the left. With the expenditure approach, GDP is the sum of expenditures, as shown on the right. Both totals are reconciled with an equal amount for statistical discrepancy.

Source: Adapted from Statistics Canada, National Income and Expenditure Accounts, Quarterly Estimates, Fourth Quarter 1993 (March 1954). cat. no. 13-001, vol. 41, no. 4, pp. 3, 5. Reproduced by authority of the Minister of Industry, 1994.

(\$ billions)		
Gross Domestic Product (GDP) Deduct: Indirect taxes Depreciation Statistical discrepancy		710.7 (-)89.4 (-)84.5 (-)2.4
Net Domestic Income (ND) Add: Government transfer payments Other payments to persons Deduct: Earnings not paid out to persons Net investment income to fore gners		534.4 112.8 72.7 (-)59.8 (-)24.7
Personal Income (PI) Deduct: Personal taxes and other personal transfers to government ,	•	635.4 (–)145.6
Disposable Income (DI)		489.8

Net domestic income is less than GDP because some payments included in GDP do not represent resource earnings. Personal income is greater than net domestic income because amounts received by households exceed amounts earned. Finally, disposable income is less than personal income because of the effect of personal taxes.

SOURCE: Adapted from Statistics Canada, *National Income and Expenditure Accounts, Quarterly Estimates, Fourth Quarter 1953* (March 1994). cat. no. 13-001, vol. 4⁻, no. 4, pp. 9, 11, 13, 19, 31. Reproduced by authority of the Minister of industry 1994.

The Flow of Income, 2008

Incomo Elouv	Amount	
Income Flow	(in millions)	
Gross domestic product (GDP)	Tk.14,265	
Less depreciation	(1,832)	
Net domestic product (NDP)	12,433	
Plus net foreign factor income	133	
Less statistical discrepancy	(136)	
National income (NI)	12,430	
Less indirect business taxes	(983)	
Less corporate profits	(1,477)	
Less interest and misc payments	(778)	
Less Social Security taxes	(996)	
Plus transfer payments	1,869	
Plus capital income	2,038	
Personal income (PI)	12,103	
Less personal taxes	(1,461)	
Disposable income (DI)	10,642	

The Equivalence of Expenditure and Income (In millions of BDT)

C: Consumer goods and services Wages and salaries Tk I: Investment in plant, equipment, and inventory Proprietors' income I: G: Government goods and services 1,994 Interest Taxes on output and imports X: Exports 1,859	8,062 1,092
servicesTk.10,057Corporate profitsI: Investment in plant, equipment, and inventoryProprietors' incomeRentsRentsInterestInterestG: Government goods and services2,882DepreciationX: Exports1,859Miscellaneous	1,092
I: Investment in plant, equipment, and inventoryProprietors' income1,994RentsG: Government goods and services1,994Z: Exports2,882DepreciationX: Exports1,859Miscellaneous	4 070
equipment, and Rents inventory 1,994 Interest G:Government goods and services 2,882 Depreciation X:Exports 1,859 Miscellaneous	1,072
inventory1,994InterestG:Government goods and servicesTaxes on output and imports 2,882Taxes on output and importsX:Exports1,859Miscellaneous	64
G:Government goods and services 2,882 Depreciation X:Exports 1,859 Miscellaneous	929
and services 2,882 Depreciation X:Exports 1,859 Miscellaneous	1,034
X:Exports 1,859 Miscellaneous	1,832
	46
M:Imports (2,529) Statistical discrepancy	136
GDP:Total value of output Tk.14,265 = Total value of income Tk.2	4 005