

## **Statistics and Economics**

### *Abstract*

The book “Statistics and Economics” written by Vesellin Hadjiev, except theory and historical overview, offers the reader 29 data tables, nice graphic representations – 14 pictures and charts, mathematic and statistic formulas.

In the book are presented the base principles of National Account System (NAS). There are given many examples of economic models, which better represent the topics. The author explains variety of econometric terms and their relationship in NAS.

Economists argue for the main advantage, term Gross National Product (GNP) takes in statistic theory of XX century. In topic “Statistics of GNP” are presented a few article about: Overview and base principles of measurement, Application of Production Method, Method of End Costs, Method of Household Income in calculating of GNP, GNP and GDP, National Income, statistics of dynamics of GNP.

Based on price level, dynamics of price changes and the inflation, we can define economic system stability, forecast future economic development and measure the relationship between supply and demand. Development of statistical programs for observation of price changes themselves and expectations for price changes of households and businesses, is based on a few base principles, which are shortly presented in the book.

Author of the book creates its own survey and offer inflation formulae to be calculated as a “speed of end-users private consumption price growth”. There he presents theory bases and principles of economic deflators, as all is explained with a lot of examples.

One of most observed indicator in society is unemployment rate. It give us view about how effectively works the economy and how effectively business and government use labor force resources. Author suggests statistical programs be used in the methodology of observation of real labor force, as in it is used a system of values and indicators, which are calculated by given models. Author surveys unemployment, as phenomenon of non-efficiently functioning economy.

Other objects of author's surveys are problems in statistical processing of resources like - tangible assets, inventory and etc.

In topic – “Statistic of economic efficiency” are presented articles about:

- Marginal capital efficiency
- Pareto optimality
- Production curves of Edward – Boil box
- Theories for productivity
- Efficiency on macro, mezzo and micro level

### Table of Contents

Used Abbreviations	7
Introduction	8
<b>Chapter 1 NATIONAL ACCOUNTING SYSTEM</b>	
Introduction in NAS	11
Definitions and base principals	13
Economics model	14
National accounts	18
NAS classifications	23
Base terms	28
Bibliography	28
<b>Chapter 2 GNP STATISTICS</b>	
Definitions and base principals GNP measure	30
Production method	32
Consumer expenditures method	35
Household income method	39
GNP, GDP, National Income	41
GNP dynamics statistics	45
Base terms	52
Bibliography	52

<b>Chapter 3 PRICE STATISTICS</b>	
Definitions and base principals of measure	54
NSI statistics programs	58
Price statistics – objects and organization	61
Average levels and Price indexes	64
Price Index	69
Inflation statistics and purchasing power parity	71
Statistics deflators	75
Base terms	78
Bibliography	78
<b>Chapter 4 LABOR FORCE STATISTICS</b>	
Definitions and base principals	79
Potential labor force statistics	80
Real labor force statistics depend on citizen records	86
Real labor force statistics depend on unemployment agency records	91
Real labor force statistics depend on representative surveys	94
Unemployment statistics – ranges and indicators majority	99
Unemployment survey models	103
Base terms	106
Bibliography	106
<b>Chapter 5 RESOURCE STATISTICS</b>	
Material resources as element of national welfare: nature and classifications	108
Tangible assets statistics	110
Status, regeneration and using of tangible assets statistics	114
Inventory statistics	120
Inventory turnover statistics	121
Statistical problems in cost evaluation of material resources	130
Base terms	133
Bibliography	133
<b>Chapter 6 ECONOMICS EFFICIENCY STATISTICS</b>	
Definitions of economics efficiency – theses and arguments	135
Base schemes of economics efficiency measure	140
Labor force efficiency statistics	144
Tangible assets efficiency statistics	148
Inventory efficiency statistics	153
Base terms	157
Bibliography	158

*Resumed and translated by Zlatin Zlatev.*