

## CONTENTS

---

List of tables and figures	ix
Preface	xiii
Chapter 1. Introduction	1
<i>Objectives of the study</i>	1
<i>Evaluating tsarist and Soviet economic performance</i>	2
<i>The tsarist economy and the economic history of Europe</i>	4
<i>Methodology: some preliminary observations</i>	8
<i>A survey of alternative estimates</i>	10
<i>Data sources</i>	11
<i>Secondary sources: tsarist, Soviet, and Western</i>	14
<i>Reliability of the data, missing data and imputations</i>	15
<i>Continuous annual estimates</i>	19
<i>Organization of the remainder of the book</i>	20
<i>Notes to Chapter 1</i>	22
Chapter 2. Problems of measurement of real national income: tsarist Russia	26
<i>Index numbers: problems of deflating historical series</i>	27
<i>The pricing of capital goods</i>	32
<i>Relative prices and tsarist-Soviet period comparisons</i>	41
<i>Summary</i>	46
<i>Notes to Chapter 2</i>	49
Chapter 3. Summary results: national income of tsarist Russia, 1885-1913	55
<i>The NNP estimates, 1885-1913</i>	55
<i>A consideration of biases and index number effects</i>	61
<i>Comparison with other national income estimates</i>	64
<i>The time series results: Goldsmith, Varzar, and Prokopovich</i>	69

<i>A reevaluation of the Goldsmith study</i>	70
<i>Summary</i>	77
<i>Notes to Chapter 3</i>	79
Chapter 4. An overview of the component accounts	80
<i>Personal consumption expenditures</i>	80
<i>Imperial budget expenditures</i>	85
<i>Expenditures of local government</i>	87
<i>An overview of the investment series</i>	88
<i>Alternative investment series: Gregory and Kahan</i>	95
<i>Net foreign investment</i>	95
<i>Notes to Chapter 4</i>	99
Chapter 5. National income, USSR territory, 1913 and 1928	102
<i>A comparison of the 1913 national income estimates with Bergson's 1928 figures</i>	104
<i>An attempted explanation of Gosplan estimates</i>	114
<i>Summary</i>	117
<i>Notes to Chapter 5</i>	120
Chapter 6. Tsarist economic growth and structural change	123
<i>Tsarist growth and the composition of output</i>	125
<i>The Russian annual series and business cycles in other countries</i>	139
<i>The distribution of income</i>	146
<i>Summary</i>	147
<i>Notes to Chapter 6</i>	150
Chapter 7. A comparative appraisal: Russian growth before World War I	153
<i>Size and level of development: the Russian economy</i>	154
<i>A comparative appraisal of Russian growth since 1885</i>	160
<i>Structural change</i>	165
<i>Relative agricultural productivity</i>	167
<i>Distribution of final expenditures</i>	170
<i>The personal distribution of income</i>	175
<i>Summary</i>	175
<i>Notes to Chapter 7</i>	178
Chapter 8. Comparisons with the Soviet period	180

<i>Biases and index number effects</i>	180
<i>Economic growth comparisons</i>	181
<i>Comparisons of economic structure</i>	184
<i>Some comments on factor productivity</i>	189
<i>Summary</i>	190
<i>Notes to Chapter 8</i>	191
Chapter 9. Conclusions	192
<i>Findings</i>	192
<i>An agenda for research</i>	194
<i>Notes to Chapter 9</i>	197
Appendix A. Personal consumption expenditures in retail outlets	199
Appendix B. Consumer expenditures on housing rents (urban and rural areas)	208
Appendix C. Household service expenditures (transportation, communication, utilities, personal medical care, and domestic service)	213
Appendix D. Estimation of marketing and farm consumption in kind	222
Appendix E. Military subsistence	246
Appendix F. Expenditures of the imperial government	249
Appendix G. Expenditures of local government	259
Appendix H. Investment and capital stock in livestock	265
Appendix I. Investment in agricultural and industrial equipment	271
Appendix J. Net capital stock and net investment in industrial, agricultural, and residential urban structures	284
Appendix K. Inventory stocks and investment	300
Appendix L. Net capital stock and net investment in railroads, transportation and communication, and government	307
Appendix M. Net foreign investment	313
Bibliography	338
Index	347