Population and Technological Change

A Study of Long-Term Trends

Ester Boserup

CONTENTS

List of Tables		vii
Preface	ix	

PART I The Framework

- 1 Population Size and Technological Development 3
- 2 Regional Differences in Population and Technology 8
- 3 Population Density and Food Supply Systems 15

PART II Population and Technology in the Ancient World

- 4 From Food Gathering to Agriculture 31
- 5 Technological Change in Ancient Agriculture 43
- 6 Population Size and Urbanization 63
- 7 Characteristic Features of Ancient Urbanization 76

PART III The Role of Demographic Factors in European Development

- 8 Food Supply and Labor Shortage 93
- 9 Raw Material Supply and Specialization of Labor 102
- 10 Agricultural Change in the Period of Demographic Transition 112

PART IV Diffusion of Industrial Technologies

- 11 Transport Technology and Mass Migration 129
- 12 Sparse Population as Obstacle to Industrialization 144
- 13 Conditions for Transfer of Industrial Technologies to Asia 158

PART V Demographic Transition and Technological Change in the Third World

14 Effects of Technological Change on Rates of Population Growth 175

CONTEN

- 15 International Adaptation to Demographic and Technological Change 188
- 16 Population Growth and Rural Change 200

Appendix Countries Grouped by Density and Technological Level 213

Notes 217 Bibliography 235 Index 247

vi