THE NATIONAL ATLAS OF KOREA

NATIONAL GEOGRAPHIC INFORMATION INSTITUTE MINISTRY OF LAND, TRANSPORT AND MARITIME AFFAIRS

CONTENTS

NATIONAL LAND AND TERRITORY

TERRITORY

Image of Korea	
Korea and Surrounding Countries	
Index Map6 1:500,000 Maps	5

NATURE AND ENVIRONMENT

LANDFORMS

Topography

Important Landform Areas
and Natural Heritage Landforms
Slope Angle 41-1
Relief Energy 41-2
National Parks and Wetland Protection Areas 41-3
Tidal Flats

GEOLOGY

Geologic Map	42
Gravity Anomaly	
Heat Flow	
Earthquakes and Epicentral Map	44-3
Mohorovic Discontinuity Depth	44-4
Marine Geological Map	45

SOILS

Soil Map46
Parent Materials 48-1
Topography 48-2
Soil Drainage Class 48-3
Effective Soil Depth 48-4
Gravel Content in Deep Soil 49-1
Soil Textural Class 49-2
Soil Erodibility 49-3
Soil Loss 49-4
Acidity and Organic Matter Content of Farmland
and Rice Paddy Soils 50-1, 2, 3, 4
Multi-scale Soil Map 50-1, 2, 3, 4

CLIMATE

Locations of Meteorological Stations and	
Climographs for Selected Stations	52
Annual Mean Temperature	. 54-1
Annual Temperature Range	. 54-2
January Mean Temperature	. 54-3
August Mean Temperature	
Annual Precipitation	
Annual Snowfall Amount	. 55-2
Summer Precipitation	
Winter Precipitation	
Annual Wind Rose	56-1
Summer Wind Rose	56-2
Winter Wind Rose	56-3
Number of Days with Strong Winds	56-4
Annual Mean Sea Level Pressure	57-1
Annual Mean Relative Humidity	57-2
Annual Evaporation	57-3
Annual Percentage of Sunshine	57-4
Date of First Snowfall	58-1
Date of Last Snowfall	58-2
Date of First Frost	
Date of Last Frost	58-4
Annual Number of Days with Fog	59-1
Annual Number of Days with Frost	59-2
Annual Number of Days with Freezing	
Temperatures	59-3
Annual Number of Days with Hail	59-4
Tracks of Typhoons	60-1

HYDROLOGY

River Systems and Watersheds62
Water Usage, Domestic, Industrial
and Agricultural Water Use

Groundwater Usage	65-1
Drainage Density and River Improvement	
Flooding Vulnerability	65-3
Water Shortage	65-4

ENVIRONMENT

.38

Surface Water Quality	66
Water Supply System	. 68-1
Drinking Water Treatment Plants	
Public Sewage Treatment Facilities	. 68-3
Distribution of Wastewater Treatment Plants	.68-4
Air Quality Management	. 69-1
Emission and Concentrations: Nitrogen Dioxide.	.69-2
Emission and Concentrations: PM10	. 69-3
Emission and Concentrations: Carbon Monoxide.	.69-4
Emission of VOC and Ozone Concentrations .	.69-5
Emission and Concentrations: Sulfur Dioxide .	.69-6
Solid Waste	. 69-7
Domestic Waste	. 69-8
Waste Treatment Facilities	. 69-9

NATURAL DISASTERS

Frequency of Natural Disasters and Economic Losses70-1

ECC	mic Losses, Deaths and Flooded Areas
C	used by Typhoons
For	mia Loopen. Deaths and Elecated Array

Economic Losses, Deaths and Flooded Areas Caused by Typhoon 'Rusa'......73-3, 4

FLORA AND VEGETATION

Ecology and Natural Status Map	74
Major Tree Species Distribution	76-1
Forest Coverage	76-2
Natural Forest and Artificial Forest	76-3
Naturalized Plants	76-4
Land Cover Classification Map	77

ANIMALS

Distribution of Endangered Wildlife Species78
Endangered Mammals 80-1, 2
Birds
Insects
Amphibians and Reptiles
Fish
Migration Routes of Migratory Birds
Major Wintering and Stopover Sites of Migratory
Birds

OCEAN

General Chart	
Oceanic Current Chart (Winter)	86-1
Oceanic Current Chart (Spring)	86-2
Oceanic Current Chart (Summer)	
Oceanic Current Chart (Autumn)	
Tide Chart (Flood Current)	87-1
Tide Chart (Ebb Current)	87-2
Water Temperature and Salinity Chart	.87-3, 4

POPULATION AND SETTLEMENT POPULATION DISTRIBUTION AND

GROWTH

Population Proximity Index	90	-4
Population Distribution (2005, 1990) 9	1-1,	2
Population Growth Rate		
(2000-2005, 1995-2000)9	1-3,	4

VITAL STATISTICS AND MIGRATION

Total Fertility Rate Rate of Natural Increase	
Crude Marriage Rate	
Gross Number of Migrants	
Net Migration Rate	
In-Migration to the Capital Region	
In-Migration to Busan	
In-Migration to Daegu	95-3
In-Migration to Gwangju	95-4
In-Migration to Daejeon	95-5
Out-Migration from the Capital Region	95-6
Out-Migration from Busan	95-7
Out-Migration from Daegu	95-8
Out-Migration from Gwangju	
Out-Migration from Daejeon	95-10

POPULATION STRUCTURE

Median Age
Total Dependency Ratio
Population Structure by Industry
Graduates from Four-Year or Higher College
Programs
Average Years of Schooling
International Marriages
Composition of Religious Population

HOUSEHOLD AND HOUSING

Average Number of People per Household 100	
Percent Change in the Number of Households 102-1	
One-Generation Households	
Two-Generation Households	
One-Person Households 102-4	
Apartment-Resident Households 103-1	
Average Number of Rooms per Household 103-2	
Housing Supply Rate 103-3	
Housing Construction 103-4	

CULTURE AND TOURISM

World Cultural Heritage104	4
Cultural Heritage: National Treasures 106-	1
Cultural Heritage: Treasures 106-2	2
Cultural Heritage: Historic Sites 106-3	3
Cultural Heritage: Natural Monuments 106-4	1
Employment in Cultural Industries 107-	1
Local Festivals 107-2	2
Special Tourist Zones and Tourist Resorts, 107-3	3
Designated Tourist Attractions 107-4	4

URBAN AND RURAL SETTLEMENTS

Urban and Rural Areas
Land-Value Distributions in Large Cites

ECONOMY AND INDUSTRY

REGIONAL ECONOMIC INDICATORS

Gross Regional Domestic Product114 Total Establishments and Total Employees116 Financial Independence Ratio and Revenues...117-1 Gross Value-Added and Net Production ... 117-2 Amount of Exports .. . 117-3

Amount of R&D Investment1	17-4
Industrial Property Rights 1	17-5
Amount of Imports1	17-6

INDUSTRIAL INFRASTRUCTURE AND ENERGY

100 0

Complexes
Operation Rates of Industrial Complexes 120-4
Land Use of Key National Industrial Complexes 121-1
Industrial Divisions of Key National Industrial
Complexes121-2

Complexes	£
Overseas Energy Import 121-3	3
Total Energy Consumption 122-1	
Manufacturing Sector 122-2	2
Domestic and Commercial Sectors	3
Production of New Renewable Energy 122-4	Ļ.
Electric Power Production by Type	
Electricity Consumption by Category of Use 123-2	
Oil Consumption by Product Type 123-3	5
City Gas Establishments and Gas Supply . 123-4	

AGRICULTURE AND MINING

Ratio of Cultivated Land and People

Engaged in Agriculture
Certified Areas Using Environmentally Friendly
Agricultural Techniques 126-2
Types of Environmentally Friendly
Agricultural Techniques 126-3
Harvested Areas: Vegetable Production 126-4
Harvested Areas: Barley Production 126-5
Harvested Areas: Fruit Production
Livestock Farms 127-1
Cattle Farming127-2
Forest Land Area and Forest Growing Stock 127-3
Value and Volume of the Fishing Industry 127-4
Mines 127-5
Production of Mineral Resources
Imported Amount of Mineral Resources by Type127-7

MANUFACTURING

Manufacturing Employees and Output	128
Employees by Gender	130-1
Labor Productivity and Value-added	
Products	130-2
Employees by Job Type	100 0

employees by Job Type	
Manufacturing R&D Investment	130-4
Construction	
Housing Construction by Type	130-6
Motor Vehicles	
Apparel and Clothing	
Ship Building	131-3
Steel and Metal	131-4

SERVICE INDUSTRY

Employees and Establishments in the
Service Industry 132
Amount of Sales: Wholesale and Retail Trade 134-1

reaction of the call collabilities the per	1,000
People	
Large-sized General Retail Stores	134-3
Hotels and Restaurants	
Banking	134-5

Insurance 134-6 hiatir

Securities Intermediation and
Insurance Agencies134-7
Transportation Services Establishments 134-8
Employees in Transportation Services 134-9
Business Services Establishments
Employees in Business Services 135-2
Personal Services Establishments
Communication Services Establishments 135-4
Employees in Communication Services 135-5
Employees in Personal Services 135-6

TRANSPORTATION AND COMMUNICATION

Transportation Networks 136
Number of Flights by Domestic Air Route . 138-1
Length of Roadway by Road Rank 138-2
Traffic by Road 138-3
Seaports Traffic 138-4
Freight by Seaports and Type of Goods 138-5
Traffic by Railway 138-6
Information and Communication Networks., 139-1
Diffusion of Personal Computers and Internet
Service

139-2 Wireless Internet Use Ratio and Average Duration per

LABOR

Employment Rate
by Gender142-1 LFPR by Age Group and
Educational Attainment 142-2 Employment by Gender, Age Group and
Educational Attainment
Employment by Industry and Occupation .142-4 Turnover Rate of Workers at Businesses
Employing Five or More Workers
Employing Five or More Workers
Employing Five or More Workers
Employment by Work Status143-4
PUBLIC HEALTH AND SOCIAL

PUBLIC HI WELFARE

Number of Health Professionals Number of Hospital Beds	146
Alcohol Consumption	., 147-1
Tobacco Product Use	147-2
Mortality Rate by Etiological Cause	147-3
Prevalence Rate of Diseases	. 147-4
National Health Insurance Benefits	
per Person	148-1
Public Social Welfare Specialists	. 148-2
Recipients of National Basic Livelihood	
Security Scheme	148-3
Members of Households Headed	
by Children	.148-4
Residential Institutions for the Elderly	. 149-1
Residential Institutions for the Disabled	
Child Welfare Institutions	.149-3
Day Care Centers	

WOMEN

Women's LFPR 150
Sex Ratio at Birth
Fertility Rate
Sex Mortality Ratio
Women and Marriage 152-4
Women and Families: Female Householders 153
Women and Families: Marriage to Foreigners., 154-1
Women and Families: Labor
Women and Welfare: Safety 154-3
Women and Welfare: Information Use 154-4
Female Higher Education155-1
High-Ranking Professional Jobs 155-2
Female Social Participation: Politics 155-3
Government Administration

EDUCATION

Number of Students and Education Expenses., *	156
Teachers	8-1

Education Budget	158-2
Educational Environment	
Educational Facilities	
Kindergartens	159-1
Elementary Schools	
Middle Schools	
High Schools	159-4
School Advancement Rate	
Colleges and Universities	
Graduate Schools	
Foreign Students in Korea	
Student Transfers	
Education-Related Civil Servants	
Alternative Schools and Vocational Schools	s.161-3
Educational Attainment	

KOREA IN THE WORLD

Korea's Diplomatic Relations 16	2
Investment by Foreign Corporations in Korea 164-	1
Investment by Korean Corporations Abroad 164-	2
Origins of Foreign Students in Korea 165-	1
Korean Students Abroad 165-	
Korean Nationals' Departures to Overseas 166-	1
Entry of Foreigners into Korea 166-	ż
Foreign Residents in Korea 167-	1
Migrant Workers in Korea 167-2	2
Foreigners Who Have Acquired Korean	
Citizenship167-3	3
Migrants for International Marriage in Korea 167-4	4

MAP EXPLANATIONS

1: 500,000 INDEX

1:500,000 Index	
Administrative Districts	
Mountain	189
Sea/Stream/Lake/Reservoir	189
Peninsula/Islands/Island	190
Temple	
Expressway/Interchange	190
Railroad/Station	191
Beach	
Lighthouse	192
Place of Interest	192
Other Tourist Attractions	
Others	