CHAPTER - I

GEOGRAPHICAL PERSPECTIVE ON POPULATION AND FOOD SYSTEM IN SOLAPUR DISTRICT (1-25)

1.1 INTRODUCTION
1.2 SIGNIFICANCE OF AGRICULTURAL GEOGRAPHY
1.3 SIGNIFICANCE OF POPULATION GEOGRAPHY
1.4 SELECTION OF THE TOPIC
1.5 SELECTION OF THE REGION
1.6 HYPOTHESES
1.7 OBJECTIVES OF THE RESEARCH
1.8 SOURCES OF THE DATA AND INFORMATION
1.9 METHODOLOGY
1.10 THE REVIEW OF LITERATURE
1.11 ORGANISATION OF THE WORK
REFERENCES

CHAPTER – II

BACKGROUND OF THE REGION (26-70)

2.1 PHYSICAL BACKGROUND
2.1.1 Location and Extension of the area under study.
2.1.2 Physiography
2.1.3 Drainage Pattern
2.1.4 Geology
2.1.5 Climate
2.1.6 Soil
2.1.7 Natural Vegetation

2.2 HISTORICAL BACKGROUND

2.3 SOCIAL BACKGROUND
2.3.1 Population

2.4 ECONOMIC BACKGROUND
2.4.1 Land use pattern.
2.4.2 Irrigation.
2.4.3 Transportation.

CHAPTER- III

GROWTH OF POPULATION IN
SOLAPUR DISTRICT (71-106)

3.1 INTRODUCTION
3.2 THE GROWTH OF POPULATION SINCE 1901
3.3 RURAL URBAN DIFFERENTIALS IN GROWTH RATES
3.4 POPULATION GROWTH DURING POST INDEPENDENCE PERIOD
3.5 SPATIAL PATTERN OF GROWTH OF POPULATION IN SOLAPUR DISTRICT
3.6 BIRTH RATES IN SOLAPUR DISTRICT
3.7 BIRTH RATE FOR RURAL AND URBAN AREAS
   3.7.1 Birth rate for rural areas
   3.7.2 Birth rate for urban areas
3.8 DEATH RATE IN SOLAPUR DISTRICT
3.9 DEATH RATE FOR RURAL AND URBAN AREAS:
   3.9.1 Death rate for rural areas
   3.9.2 Death rate for urban areas
3.10 INFANT MORTALITY RATE IN SOLAPUR DISTRICT

CHAPTER- IV

DENSITY AND DISTRIBUTION OF POPULATION IN
SOLAPUR DISTRICT (107-143)

INTRODUCTION:
4.1 DETERMINANTS OF POPULATION DISTRIBUTION AND DENSITY
   4.1.1 Geographical Factors
   4.1.2 Economic and Social Factors
   4.1.3 Demographic Factors
4.2 VARIATION IN DENSITY OF POPULATION FOR SOLAPUR DISTRICT
   4.2.1 Spatial variations in the density of population within the region
   4.2.2 The density of population in rural areas of Solapur district (1971-2001)
   4.2.3 Urban Density of Population for Solapur district (1971-2001)
4.3 REGIONAL VARIATIONS IN PHYSIOLOGICAL DENSITY
   4.3.1 Physiological Density (Nutritional Density)
4.3.2 Agricultural Density
4.3.3 Critical Density
4.3.4 Economic Density

4.4 DISTRIBUTION OF POPULATION IN SOLAPUR DISTRICT
4.4.1 Tahsilwise percentage of total population (1971-2001)

4.5 PERCENTAGE OF AREA AND POPULATION AND ITS CUMULATIVE PERCENTAGE

4.6 AREA PER VILLAGE, NUMBER OF VILLAGES PER 100 SQUARE KILOMETER AND POPULATION PER VILLAGE IN EACH TAHSIL OF SOLAPUR DISTRICT

CHAPTER - V

COMPOSITION OF POPULATION IN SOLAPUR DISTRICT

(144-197)

INTRODUCTION:

5.1 SEX RATIO FOR SOLAPUR DISTRICT AND MAHARASHTRA

5.2 SPATIAL VARIATION IN SEX RATIO IN SOLAPUR DISTRICT (1971-2001)

5.3 TAHSILWISE SEX RATIO IN SOLAPUR DISTRICT (2001)

5.4 DECADAL VARIATIONS IN RURAL URBAN SEX RATIO (1901-2001)

5.5 AGE COMPOSITION
5.5.1 Age wise percentage of population

5.6 DEPENDENCY RATIO FOR SOLAPUR DISTRICT

5.7 OCCUPATIONAL STRUCTURE
5.7.1 Proportions of workers to total population in Solapur district (1971 - 2001)
5.7.2 Primary workers
5.7.3 Secondary Workers
5.7.4 Tertiary Workers

5.8 LITERACY PATTERN IN SOLAPUR DISTRICT:
5.8.1 Spatial Pattern of Literacy in Solapur District (1971-2001)
5.8.2 Tahsilwise Literacy in Solapur District
5.8.3 Tahsilwise Male literacy in Solapur district (1971 - 2001)
5.8.4 Female Literacy in Solapur District

CHAPTER – VI

LAND USE AND AGRICULTURAL CROP COMBINATION REGIONS (198-243)

6.1 MEANING AND IMPORTANCE OF LAND USE
6.2 LAND USE PATTERN IN SOLAPUR DISTRICT DURING 1980 – 2001
6.3 LAND CLASSIFICATION
   6.3.1 Area Under Forest
   6.3.2 Area Not Available For Cultivation
   6.3.3 Other Uncultivable Land Excluding Fallow Land
   6.3.4 Fallow Land
   6.3.5 Net Sown Area

INTRODUCTION

6.4 AREA UNDER DIFFERENT CROP
   6.4.1 FOOD CROPS
      i) Rice
      ii) Wheat
      iii) Jawar
iv) Bajra  
v) Pulses  
vi) Sugar Cane  
vii) Other food crops  

6.4.2 NON FOOD CROPS  
i) Oil Seeds  
ii) Ground Nuts  
iii) Other Non Food Crops.

6.5 CROP COMBINATION REGION  
(RAFFIULLAH METHOD)

CHAPTER – VII  
AGRICULTURAL PRODUCTIVITY AND MARKETING  
(244-293)

INTRODUCTION

7.1 PRODUCTIVITY OF PRINCIPAL CROPS  
7.1.1 Levels of Jawar Productivity  
7.1.2 Levels of Bajra productivity  
7.1.3 Levels of Wheat productivity  
7.1.4 Levels of Tur productivity  
7.1.5 Levels of Gram productivity  
7.1.6 Levels of Groundnut productivity

7.2 MEASUREMENT OF AGRICULTURAL PRODUCTIVITY  
7.2.1 Measurement of productivity by Kendal’s ranking co-efficient method.  
7.2.2 Measurement of productivity by yield Index method.  
7.2.3 Measurement of productivity by Bhatia’s method.  

7.3 AGRICULTURAL MARKETING.
MARKET CENTERS
7.3.1 Barshi
7.3.2 Solapur
7.3.3 Akluj
7.3.4 Karmala
7.3.5 Pandharpur
7.3.6 Mohol
7.3.7 Kurduwadi
7.3.8 Sangola
7.3.9 Akkalkot
7.3.10 Mangavedha

INTRODUCTION

TECHNOLOGICAL FACTORS

7.4 IRRIGATION
7.4.1 Net Irrigated Area
7.4.2 Surface Irrigation
7.4.3 Underground Water Irrigation

7.5 FARM IMPLEMENT MACHINERY
7.5.1 Ploughs
7.5.2 Carts
7.5.3 Agricultural Machinery
7.5.4 Oil Engine
7.5.5 Electric Pumps
7.5.6 Sugarcane Crushers
7.5.7 Tractors

7.6 IMPROVED SEEDS

7.7 CHEMICAL FERTILIZERS
7.8 AGRICULTURAL CREDIT
7.9 ROAD
CHAPTER - VIII

PERSPECTIVES ON POPULATION AND FOOD SYSTEM IN SOLAPUR DISTRICT (294-347)

8.1 INTRODUCTION
8.2 COMPARISION BETWEEN GROWTH OF POPULATION AND FOOD PRODUCTION IN SOLAPUR DISTRICT
8.3 INCOME AND THE NATURE OF FOOD
8.4 DETERMINATION OF FOOD GRAIN AVAILABILITY
8.5 CRITERIA TO ESTIMATE FOOD PRODUCTS AND ITS AVAILABILITY
8.6 FOOD SYSTEM AND PRODUCTION IN SOLAPUR DISTRICT
8.7 FOOD BALANCESHEET FOR SOLAPUR DISTRICT
8.8 TAHsilWISE FOOD PRODUCTION OF DIFFERENT CROPS PER ACRE IN KILOGRAMS
8.9 FOOD AVAILABILITY PER PERSON PER DAY IN GRAMS (1971-2001)
  8.9.1 The Availability of Cereals per person per day
  8.9.2 Availability of Pulses per person per day in Grams
  8.9.3 Total food availability in grams per person per day
8.10 FOOD AVAILABILITY, SURPLUS AND DEFICIT PER PERSON PER DAY IN GRAM
  8.10.1 Surplus and Deficit Food per person per day in Grams
8.11 FOOD IN CALORIES
  8.11.1 Total Calories Produced in Million
  8.11.2 Total Production and Availability of Calories per person per day
  8.11.3 Availability of Calories per Capita per day
  8.11.4 Surplus and Deficit Calories per person per day (1971-2001)
8.12 EVALUATION OF FOOD SUFFICIENCY IN SOLAPUR DISTRICT
   8.12.1 Estimation of food product from different sources

8.13 ESTIMATION OF LOSSES
   8.13.1 Seed rates
   8.13.2 Extraction rates
   8.13.3 Losses from other sources

8.14 FOOD SUFFICIENCY
   8.14.1 To yield energy
   8.14.2 To build and renew body structure
   8.14.3 To regulate internal condition and processes

8.15 ANALYSIS OF SURPLUS AND DEFICIT AREAS:

8.16 SPATIAL DIMENSION OF SURPLUS AND DEFICIT AREAS
   8.16.1 Slightly Surplus Areas
   8.16.2 Highly Surplus Areas
   8.16.3 Slightly Deficit Areas
   8.16.4 Highly Deficit Areas

REFERENCES

CHAPTER – IX

CORRELATION MATRIX OF THE VARIABLES INFLUENCING GROWTH OF POPULATION AND AGRICULTURE PRODUCTIVITY IN SOLAPUR DISTRICT

A) CORRELATION MATRIX OF THE VARIABLES, INFLUENCING THE GROWTH OF POPULATION IN SOLAPUR DISTRICT

9.1 GROWTH RATE OF POPULATION AND BIRTH RATE
9.2 GROWTH RATE OF POPULATION AND INFANT MORTALITY RATE
9.3 GROWTH RATE OF POPULATION AND LITERACY RATE
9.4 GROWTH OF POPULATION AND MALE LITERACY
9.5 GROWTH OF POPULATION AND FEMALE LITERACY
9.6 GROWTH OF POPULATION AND PERCENTAGE OF RURAL POPULATION
9.7 GROWTH OF POPULATION AND PERCENTAGE OF URBAN POPULATION
9.8 GROWTH OF POPULATION AND WORKERS IN AGRICULTURE
9.9 GROWTH OF POPULATION AND PROPORTION OF WORKERS IN MANUFACTURING
9.10 GROWTH OF POPULATION AND PER CAPITA INCOME
9.11 GROWTH OF POPULATION AND DENSITY OF POPULATION
9.12 GROWTH OF POPULATION AND SEX-RATIO
9.13 GROWTH OF POPULATION AND AGE AT MARRIAGE FOR MALE
9.14 GROWTH OF POPULATION AND AGE AT MARRIAGE FOR FEMALE
9.15 GROWTH OF POPULATION AND PROPORTION OF MUSLIM POPULATION
9.16 GROWTH OF POPULATION AND PROPORTIONS OF HINDU POPULATION
9.17 GROWTH OF POPULATION AND ROAD DENSITY
9.18 GROWTH OF POPULATION AND PERCENTAGE OF SCHEDULE CASTE
9.19 GROWTH OF POPULATION AND PERCENTAGE SCHEDULE TRIBE POPULATION
9.20 GROWTH OF POPULATION AND PERSONS PER HOUSEHOLD
9.21 GROWTH OF POPULATION AND DEATH RATE:

B) CORRELATION MATRIX OF THE VARIABLES INFLUENCING AGRICULTURE IN SOLAPUR DISTRICT

9.22 AGRICULTURAL PRODUCTIVITY AND FERTILIZER INPUT
9.23 AGRICULTURAL PRODUCTIVITY AND PROPORTION OF CULTIVABLE LAND
9.24 AGRICULTURAL PRODUCTIVITY AND NET SHOWN AREA
9.25 AGRICULTURAL PRODUCTIVITY AND RAINFALL
9.26 AGRICULTURAL PRODUCTIVITY AND IRRIGATED AREA
9.27 AGRICULTURAL PRODUCTIVITY AND LAND HOLDING
9.28 AGRICULTURAL PRODUCTIVITY AND WORKERS IN AGRICULTURE AND MANUFACTURING
9.29 AGRICULTURAL PRODUCTIVITY AND PLOUGH, ENGINES, BULLOCK CART AND TRACTORS
9.30 AGRICULTURAL PRODUCTIVITY AND ROAD PER 100 SQ KM AREA
9.31 AGRICULTURAL PRODUCTIVITY AND PERCENTAGE OF RURAL POPULATION
9.32 AGRICULTURAL PRODUCTIVITY AND PERCENTAGE OF URBAN POPULATION
9.33 AGRICULTURAL PRODUCTIVITY AND DENSITY OF POPULATION
9.34 AGRICULTURAL PRODUCTIVITY AND LITERACY
CHAPTER - X

CONCLUSIONS AND SUGGESTIONS (380-434)

BIBLIOGRAPHY (435-448)