

A DISTRIBUTIVE STUDY OF THE CHANGES IN THE INDUSTRIAL
COMPOSITION OF INDIAN WORKING FORCE 1951-1961

A THESIS
SUBMITTED TO THE UNIVERSITY OF KERALA
FOR THE
DEGREE OF MASTER OF SCIENCE
(In Demography)

By
D.Radha Devi, M.A.
Department of Statistics
University of Kerala
Trivandrum

1966

N. KRISHNAN NAMBOODIRI,
M.A., M.Sc., Ph.D.,
READER IN DEMOGRAPHY.

DEPARTMENT OF STATISTICS,
University of Kerala,
Trivandrum.

I hereby certify that this thesis is a bonafide record of work of Smt. D.Radha Devi, carried out by her in the Department of Statistics, University of Kerala, Trivandrum under my supervision, in fulfilment of the requirements for the M.Sc. Degree in Demography of the University of Kerala and that no part thereof has been presented before for any other degree.

N. K. Namboodiri

April 25, 1966

DR. N. KRISHNAN NAMBOODIRI
(Supervising Teacher)

ACKNOWLEDGEMENTS

I wish to express my deep sense of gratitude to Dr. (Miss) A. George, Professor of Statistics, University of Kerala who very kindly provided me with facilities at the department to carry on the work. I also acknowledge my profound indebtedness to Dr. N. Krishnan Namboodiri, Reader in Demography, University of Kerala under whose supervision the work embodied in this thesis was carried out, for his valuable suggestions, helpful criticisms, inspiring guidance and kind treatment throughout the course of this work.

D. RADHA DEVI

CONTENTS

	Page
ACKNOWLEDGEMENTS	iii
LIST OF TABLES	v
Chapter	
I. INTRODUCTION	1
II. DEFINITION OF AREA UNITS	3
III. THEORIES ON SOCIOECONOMIC CHANGE AND HYPOTHESES CONCERNING CHANGE IN INDUSTRIAL COMPOSITION	60
IV. DATA AND METHODS	69
V. FINDINGS	79
VI. SUMMARY AND CONCLUSIONS	182
BIBLIOGRAPHY	188

LIST OF TABLES

Table	Page
1. Units Compared in the Present Analysis and Their Correspondence with Strictly Comparable Units	9
2. Definition of Areal Units used in the Study in terms of 1951 and 1961 Districts	16
3. Discrepancies Between Population Figures Recorded in 1951 and 1961 Census of India Publications ...	59
4. Percent Distribution of Workers by Broad Industrial Categories for all-India 1951 - 1961	69
5. Description of the 10 Divisions Used in the 1951 Census Tabulation of Economic Data	73
6. Classification of the Non-agricultural Means of Livelihood Classes into Divisions and Sub-Divisions	74
7. Definition of Industrial Categories of 1961 in terms of 1951 Concepts	77
8. Percentage Distribution of Workers in Each Sex (1951) by Industrial Categories	80
9. Percentage Distribution of Workers in Each Sex (1961) by Industrial Categories	112
10. Coefficient of Dissimilarity: Industrial Composition of Workers by Sex; 1951 and 1961	144
11. Participation Rate by Sex: 1951 & 1961	149
12. Mean Values of Coefficients of Dissimilarity for Units grouped by the Degree of Non-comparability.	158
13. Classification of the Units According to the Characteristics Hypothesized to be Related to Change in Industrial Composition	159
14. The Mean Values of the Coefficients of Dissimilarity for the Two Categories of Units of the Different Variables Studied	160
15. Hypotheses and the Consistency of Data with them	162

LIST OF TABLES - Continued

Table	Page
15. Participation by Sex in Different Sub-classes of Areal Units	164
17. Mean Participation Rate for Males for 1951	165
18. Mean Participation Rate for Females for 1951 ...	167
19. Mean Participation Rate for Males for 1961	168
20. Mean Participation Rate for Females for 1961 ...	168
21. Summary of Findings in Tables 17 - 20	168
22. Estimation of "Main Effects" Illustrated	170
23. Analysis of Variance of 1951 Male Participation Rate	173
24. Analysis of Variance of 1951 Female Participation Rate	174
25. Analysis of Variance of 1961 Male Participation Rate	175
26. Analysis of Variance of 1961 Female Participation Rate	176
27. Effects of Farm Component on Participation Rate: Males and Females for 1951 and 1961	177