PN-AAY-149
51960

FOOD CONSUMPTION PROFILE OF BIHAR

(COMPANION TO INTER-STATE VARIATIONS IN FOOD CONSUMPTION, NUTRITIONAL ADEQUACY AND LEVELS OF POVERTY)

SAROJ GUPTA

REPORT SUBMITTED TO THE INDIA MISSION OF THE UNITED STATES AGENCY FOR INTERNATIONAL DEVELOPMENT UNDER A CONTRACT WITH THE TECHNO ECONOMIC RESEARCH INSTITUTE, DELHI.

JUNE 1987

THE VIEWS EXPRESSED HERE ARE THE AUTHOR'S OWN AND DO NOT NECESSARILY REFLECT THOSE OF USAID.

THE AUTHOR IS AN ECONOMIST FROM LADY SHRI RAM COLLEGE OF DELHI UNIVERSITY AND HONORARY DIRECTOR OF AASHISH INSTITUTE OF SCIENTIFIC STUDIES.

CONTENTS

			Page No.
Chapter 1 :	Introduction		1-3
I.	Setting the Context	1	
II.	Objectives	1	
III.	Data Base	1	
IV.	Methodological Issues		2-3
Chapter 2 :	Food Consumption Profile: Rural		4-5
I.	Comments on Prices	4	
II.	Rural Areas	4-5	
Chapter 3 :	Food Consumption Profile: Urban		6-7
Annexure 1:	Bibliography		8
Annexure 2:	Data Base and Methodology		9-24
Annexure 3:	Guide to Tables		25-27
	Detailed Tables		28-70
Annexure 4:	Figures		71-90

LIST OF TABLES (Annexure 3)

Title	Page No.	
Listing of Deciles by Commodity: Rural		28-39
Foodgrains	28	
Cereals	28	
Rice and Products	29	
Wheat and Products	29	
Jawar and Products	30	
Bajra and Products	30	
Maize and Products	31	
Ragi and Products	31	
Barley and Products	32	
Small Millets and Products	32	
Grain	33	
Cereal substitutes	33	
Pulse and Products	34	
Milk and Products	34	
Edible Oil	35	
Meat, Egg and Fish	35	
Vegetable, Fruits and Nuts	36	
Sugar	36	
Salt and Spices	37	
Beverages and	37	
Other Food	38	
Total Food	38	
Total Expenditure	39	
Non Food	39	
Listing of Deciles by Commodity: Urban		40-51
Foodgrains	40	
Cereals	40	
Rice and Products	41	
Wheat and Products	41	
Jawar and Products	42	
Bajra and Products	42	
Maize and Products	43	
Ragi and Products	43	
Barley and Products	44	
Small Millets and Products	44	
Grain	45	
Cereal substitutes	45	
Pulse and Products	46	
Milk and Products	46	
Edible Oil	47	
Meat, Egg and Fish	47	
Vegetable, Fruits and Nuts	48	
Sugar	48	
Salt and Spices	49	
Beverages	49	
Other Food	50	
Total Food	50	
Total Expenditure	51	
Non Food	51	

Per Capita Intake by Deciles		52-58
Calories Per Day: Rural	52	
Calories Per Day: Urban	52	
Protein Per Day: Rural	53	
Protein Per Day: Urban	53	
% Cereal Calories to Total Calories: Rural	54	
% Cereal Calories to Total Calories: Urban	54	
% Cereal Protein to Total Protein: Rural	55	
% Cereal Protein to Total Protein: Urban	55	
% Pulse Protein to Total Protein: Rural	56	
% Pulse Protein to Total Protein: Urban	56	
% Sugar Calories to Total Calories: Rural	57	
% Sugar Calories to Total Calories: Urban	57	
% Oil Calories to Total Calories: Rural	58	
% Oil Calories to Total Calories: Urban	58	
Percentage of People, their Mean Expenditure, Gini's Coefficient and Sen's Index Below Monthly Per Capita Expenditure of		59-61
Rs.30	59	
Rs.40	60	
Rs.50	61	
Gini's Coefficient: Rural	62	
Gini's Coefficient: Urban	62	
Per Capita Expenditure by Deciles: Rural		63-65
Lower Decile: Average of 1, 2 & 3		
Upper Decile: Average of 7, 8 & 9		
Foodgrains	63	
Cereals	63	
Rice and Products	63	
Wheat and Products	63	
Jawar and Products	63	
Bajra and Products	63	
Maize and Products	63	
Ragi and Products	64	
Barley and Produts	64	
Small Millets	64	
Grain	64	
Cereal Substitutes	64	
Pulse and Products	65	
Milk and Products	65	
Total Food	65	
Total Expenditure	65	

Per Capita Consumer Expenditure by Deciles: Urban 66-68
Lower Deciles: Average of 1, 2 & 3
Upper Deciles: Average of 7, 8 & 9
Foodgrains 66
Cereals 66
Rice and Products 66
Wheat and Products 66
Jawar and Products 66
Bajra and Products 67
Maize and Products 67
Ragi and Products 67
Barley and Produts 67
Small Millets 67
Grain 67
Cereal Substitutes 67
Pulse and Products 68
Milk and Products 68
Total Food 68
Total Expenditure 68

Per Capita Intake by Deciles
Lower and Upper Deciles 69
Calories Per Day: Rural 69
Calories Per Day: Urban 69
Protein Per Day: Rural 69
Protein Per Day: Urban 69

LIST OF FIGURES

Fig.No.	Title	Page No.
1.	Trends in Consumer Expenditure (Rs.): Rural (Per Capita Deflated Expenditure:1962-83)	70
2.	Per Capita Expenditures by Decile Groups:1962-83 Total Expenditure (Rs.): Rural	71
3.	Per Capita Expenditures by Decile Groups:1962-83 Total Food (Rs.): Rural	72
4.	Per Capita Expenditures by Deciles Groups:1962-83 Total Foodgrains (Rs.): Rural	73
5.	Per Capita Expenditures: 1962-83 Ratio of 9th and 2nd Decile: Rural	74
6.	Trends in Consumer Expenditures (Rs.): 1962-83 Wheat, Rice and Coarse Grains : Rural	75
7.	Per Capita Expenditures: 1962-83 Pulses by Decile Groups: Rural	76
8.	Per Capita Energy Intake (KCal): 1962-83 Calorie Intake by Decile Groups: Rural	77

9.	Per Capita Protein Intake (Grains): 1962-83 Protein Intake by Decile Groups: Rural	78
10.	Trends in Consumer Expenditures: 1962-83 Persons Below Poverty Line : Rural	79
11.	Trends in Consumer Expenditure (Rs.) : Urban (Per Capita Deflated Expenditure: 1962-83)	80
12.	Per Capita Expenditures by Decile Groups: 1962-83 Total Expenditure (Rs.): Urban	81
13.	Per Capita Expenditures by Decile Groups: 1962-83 Total Food (Rs.) : Urban	82
14.	Per Capita Expenditures by Decile Groups: 1962-83 Total Foodgrains (Rs.) : Urban	83
15..	Per Capita Expenditures: 1962-83 Ratio of 9th and 2nd Decile: Urban	84
16.	Trends in Consumer Expenditures (Rs.): 1962-83 Wheat, Rice and Coarse Grains : Urban	85
17.	Per Capita Expenditures: 1962-83 Pulses by Decile Groups: Urban	86
18.	Per Capita Energy Intake (KCal): 1962-83 Calorie Intake by Decile Groups: Urban	87
19.	Per Capita Protein Intake (Grains): 1962-83 Protein Intake by Decile Groups: Urban	88
20.	Trends in Consumer Expenditures: 1962-83 Persons Below Poverty Line : Urban	89

CHAPTER 1

INTRODUCTION

I. Setting the Context

A study on 'Poverty and Nutrition' was undertaken in October 1986 by Dr. Robert E. Evenson in collaboration with Dr. S. Gupta for USAID, India. In this report, an attempt was made to bring out the food consumption and poverty scenario in India from 1951 upto 1983 and to link it with food production and other explanatory variables. The study was macro in nature and data were presented for all India rural and all India urban areas. As a follow up to that study it was deemed desirable to do similar analysis of state level data from fifteen states where adequate information was available, and in order to make state specific planning and policy analysis possible and to facilitate inter-state comparisons.

The current study, on 'Inter-State Comparisons of Food consumption, Nutritional Adequacy and Levels of Poverty' covers fifteen states viz. Andhra Pradesh, Bihar, Gujarat, Haryana, Himachal Pradesh, Karnataka , Kerala, Madhya Pradesh, Maharashtra, Orissa, Punjab, Rajasthan, Tamil Nadu, Uttar Pradesh and West Bengal. Inter-state comparisons on the stated aspects are covered in the main report entitled 'Inter-State Variations in Food Consumption, Nutritional Adequacy and Levels of Poverty', whereas food consumption profiles of each state are presented in separate state reports.

A few relevant recent comparative studies, using NSSO data undertaken in this area, focused on the relationship of rural poverty and agricultural growth. Montek Ahluwalia's (1986) estimates of rural poverty by states did not reflect any effect of level of agricultural production on levels of poverty and, hence, he advocated reliance on off farm poverty eradication programs. Dr. C.H.H. Rao (1985) upholds the importance of agricultural production in poverty eradication programs. The study by Bhattacharya et. al. (1986) and others did not find any visible trend in the incidence of rural poverty, whereas the authors acknowledged varying patterns of inter-temporal movement in disparities in the level of living in different states.

II. Objectives

The study objectives were: (a) to analyze inter-temporal, inter-class, inter-state and rural-urban changes in real aggregate consumption and consumption of foodgrains, cereals, pulses and other articles of food, the nutritional adequacy of food consumption in terms of calorie and protein intake and balance in the diet; (b) to measure the incidence of poverty in terms of estimated per capita intake derived from real expenditure; and (c) to examine possible foodgrain production and consumption linkages.

III. Data Base

This study is based on the statewise direct estimates of consumption expenditure on foodgrains and other articles reported by the National Sample Survey Organization (NSSO) from round 17 (1961 62) through round 38 (1983).

The NSSO data background and its limitations are presented in Annexure 2. Statewise estimates were not available for round 19 (1964-65).

IV. METHODOLOGICAL ISSUES

NSSO consumer expenditure estimates need to be deflated by indices accounting for price changes over time, items, per capita expenditure classes and states for rural and urban areas separately. NSSO rounds 17, 27, 28 & 32 present per capita expenditure estimates of eight major cereals, total cereals, pulses and grams by per capita expenditure classes in values as well as in quantities for all the fifteen states. Based on this information average and class-wise NSSO prices were calculated. The ratio of class-wise prices to average prices averaged over the rounds and items (Rcj) and the ratio of NSSO price indices to wholesale price indices (krj) were calculated for each state for rural and urban areas separately. All India wholesale price indices (Iri) were multiplied by these ratios to develop appropriate deflators (Drijc).

$$Drijc = Iri \times Rcj \times Krj.$$

These deflated expenditures were converted through fractile analysis into consumer expenditure by deciles. Nutrition estimates of calorie and protein content of foods consumed were obtained by dividing the expenditure estimates at constant prices by the base year prices and multiplying by nutritive values established by the National Institute of Nutriton (1976). Annexure 2 presents the details of the methodology.

The prices of cereals and other commodities are known to vary over the states. Table 1.1 highlights these differences for cereals for the year 1972-73 in the rural areas. The variation is as much as 100%, Rs. 0.81 per kg. in Punjab to Rs. 1.69 per kg. in Kerala. The ratio of the state prices of cereals as obtained from NSSO data in 1972-73 to the all-India wholesale prices in 1972-73 was built into the deflators by states to adjust the state prices to all-India level (Annexure 2).

The poor in this study are identified as those persons whose calorie intake is less than 2,150 per day, which is the Indian Council of Medical Research's (ICMR) per capita recommended daily intake for Indians. The monthly per capita expenditure equivalent to meet this calorie intake was assessed at Rs. 40 in 1970-71 (Annexure 2). A uniform poverty line across the states is justified in the light of the above price adjustment.

Comments on prices are presented in Chapter 2 along with analytical findings for the rural areas. Analytical findings for the urban areas are presented in Chapter 3. Annexure 1 is a short bibliography, Annexure 2 provides the data base and the methodology and Annexures 3 & 4 contain the detailed tables and figures.

Table 1.1

State NSSO Prices and All India Wholesale Prices : Rural
(1972-73)

State	Cereals	Rice	Wheat	Jowar	Bajra	Maize
Andhra Pradesh	1.20	1.36	1.33	1.06	0.86	0.97
Bihar	1.36	1.58	1.23	0.80	1.00	1.04
Gujarat	1.30	2.08	1.20	1.30	1.22	1.01
Haryana	0.98	1.24	0.96	1.00	1.03	0.76
Himachal Pradesh	1.12	1.51	1.12	1.00	1.00	-
Karnataka	1.32	1.66	1.13	1.26	1.10	1.12
Kerala	1.69	1.75	0.95	1.00	-	-
Madhya Pradesh	1.03	1.17	0.98	0.84	0.89	0.92
Maharashtra	1.28	1.71	1.11	1.21	1.43	1.17
Orissa	1.20	1.24	1.18	1.00	-	1.00
Punjab	0.81	1.25	0.83	0.75	0.80	0.64
Rajasthan	1.06	1.65	1.09	0.93	1.11	0.97
Tamil Nadu	1.08	1.22	1.14	0.83	0.79	0.86
Uttar Pradesh	1.01	1.30	0.98	0.78	0.81	0.79
W. Bengal	1.42	1.48	1.17	-	-	1.25
All India Wholesale prices	1.31	1.62	1.07	1.05	1.06	0.89

CHAPTER 2

FOOD CONSUMPTION PROFILE OF BIHAR: RURAL

I. Introduction

Implicit prices of NSSO in this state are 8% higher than wholesale prices in urban areas and 8% lower than wholesale prices in rural areas. Relative lower rural prices are the result of a significant proportion of food obtained from self production. Inter-class variations are as much as 30% higher for the rich in the rural areas. These variations are indicative of a mix of cheaper and lower quality products for the poor as well as greater effort on their part to procure goods at lower prices. These variations are about 21% in urban areas (Annexure 2).

II. RURAL AREAS

Analysis in this report is based on tables and figures in Annexures 3 and 4.

Average monthly per capita expenditure on all items (MPCE) was around Rs.55 in most of the years from 1961-83. The minimum MPCE was Rs.47 in 1968-69 and the maximum was Rs.74 in 1972-73. MPCE averaged over the three lowest deciles (1, 2 & 3) varied between Rs.33 (1983) to Rs.42 (1972-73): the modal value being Rs.34. The minimum of the average MPCE of the upper deciles (average of 7th, 8th and 9th decile) was Rs.62 in 1968-69 and the maximum was Rs. 82 in 1972-73. The percentage increase in MPCE from 1961-83 was 5%. There was, however, decline of 8% both in case of upper deciles and lower deciles (Figures 1 & 2).

The per capita monthly expenditure on food was around 72% of the expenditure on all items, and of this 52% was spent on foodgrains. The distribution of the expenditure on foodgrains by deciles was narrower than that of expenditure on food and on all items, i.e. there is much less variation between the lower and the upper deciles with respect to expenditure on foodgrains as compared to total expenditure (Figures 1, 3, 4 & 5).

The expenditure on pulses and milk constituted a very small proportion of total expenditure. Expenditure on pulses declined steadily through the period and expenditure on milk also declined (Figure 1).

The compostion of cereals consumed changed in this period. Consumption of rice and coarse grains increased (Figure 6).

The daily per capita consumption of cereals in the state was 619 gms in 1966-67 which declined to 515 gms. in 1970-71, then increased to 525 gms. in 1977-78 and was at 501 gms. in 1983. The decline from 1961-83 was 15%. The consumption of cereals by the lower deciles (average of the three lowest deciles) declined from 481 gms. in 1966-67 to 366 gms. in 1983 and that of the upper deciles declined from 855 gms. in 1961-62 to 620 gms. in 1983. The percentage decline was greater in respect of the upper deciles.

The daily per capita consumption of pulses increased steadily from 60 gms. in 1961-62 to 21 gms. in 1983, an increase of 65%. The pulse consumption of the lower deciles declined from 40 gms. in 1966-67 to 10 gms. in 1983. The consumption of pulses by the upper deciles fell from a level of 83 gms. in 1966-67 to 27 gms. in 1983.

The daily consumption of milk per person was 238 mls. in 1961-62, which declined to 49 mls. in 1966-67 and increased to 50 mls. in 1983. There was an overall decline of 15% during 1961-62 to 1983. The lower deciles consumed very little milk - about 14 mls. in 1961-62 and 6 mls. in 1983. Compared to this the upper deciles consumed much larger quantitites of milk, almost 12 times that of the lower deciles.

The estimated daily average energy consumption was 2,400 Kcal in 1961-62 which was reduced to 1,800 Kcal in 1983. The daily calorie intake of the lowest decile was rather poor keeping at 1500 Kcal with little changes during the study period. The average calorie consumption of the three lowest deciles decline from 1956 Kcal in 1966-67 to 1644 Kcal in 1983, the decline being 16%. The change in the daily energy consumption of the average of the three upper deciles was from 3116 Kcal in 1966-67 to 2545 Kcal in 1983. The decline was 18% (Figures 8). Almost everybody derived more than 75% of calories consumed from cereals.

The average daily per capita protein consumption was sufficiently high at 74 gms. in 1961-62 which gradually declined to 58 gms. in 1983. The decline being of the order of 22%. Decline in protein intake was smaller than the decline in energy intake. The average per capita protein intake of the three lowest deciles kept falling throughout the study period, from 58 gms. in 1961-62 to 37 gms in 1983, a fall of 36%. The upper deciles' average protein intake also declined by 35% from 104 gms. to 68 gms. during 1961-63 (Figure 9).

The percentage of population below the ICMR recommended daily per capita calorie intake of 2,150 increased from 20% in 1961-62 to 60% in 1970-71, stayed there in 1983..

The percentage of population below the ICMR recommended consumption level of 45.2 gms. of protein increased from 10% in 1961-62 to 20% in 1983.

The percentage of persons falling short of pulse protein to cereal protein (1:4, ICMR norms) and thereby the quality of protein in diet increased from 80% in 1961-62 to 100% in 1983.

Percentage of population not consuming adequate milk (100 mls. a day, ICMR norms) increased from 80% in 1961-62 to 90% in 1983. The percentage of persons inadequate intake of oil (31 gms a day, ICMR norms) remained at 100% throughout.

Percentage of persons falling below the poverty line, consumption expenditure of Rs. 40 at 1970-71 prices, increased from 38% to 76% during 1961-62 to 1973-74, and to 82% in 1983 (Figure 10).

CHAPTER 3

FOOD CONSUMPTION PROFILE OF BIHAR: URBAN

Average monthly per capita expenditure on all items (MPCE) was around Rs.45 in most of the years from 1961-83. The minimum MPCE was Rs.20 in 1973-74 and the maximum was Rs.34 in 1973-74. MPCE averaged over the three lowest deciles (1, 2 & 3) varied between Rs.20 (1973-74) to Rs.33 (1961-62): the modal value being Rs.25. The minimum of the average MPCE of the upper deciles (average of 7th, 8th and 9th decile) was Rs.39 in 1973-74 and the maximum was Rs. 88 in 1961-62. The percentage decline in MPCE from 1961-83 was 40%. The decline of 46% was greater in case of the upper deciles as compared to 32% decline of the lower deciles (Figures 11 & 12).

The per capita monthly expenditure on food was around 70% of the expenditure on all items, and of this 54% was spent on foodgrains. The distribution of the expenditure on foodgrains by deciles was narrower than that of expenditure on food and on all items, i.e. there is much less variation between the lower and the upper deciles with respect to expenditure on foodgrains as compared to total expenditure (Figures 11, 13, 14 & 15).

The expenditure on pulses and milk constituted a very small proportion of total expenditure. Expenditure on pulses was constant throughout the study period and expenditure on milk also declined (Figure 11).

The compostion of cereals consumed was static in this period. Consumption of rice and coarse grains declined and that of wheat increased (Figure 16). Consumption of coarse grains was negligible

The daily per capita consumption of cereals in the state was 529 gms. in 1961-62 which increased to 442 gms. in 1977-78, then increased to 463 gms. in 1983. The decline during 1961-83 was 12%. The consumption of cereals by the lower deciles (average of the three lowest deciles) declined from 495 gms. in 1961-62 to 385 gms. in 1983 and that of the upper deciles declined from 617 gms. in 1961-62 to 508 gms. in 1983. The percentage decline was greater in the lower deciles.

The daily per capita consumption of pulses declined steadily from 64 gms. in 1961-62 to 26 gms. in 1983, a decline of 59%. The pulse consumption of the lower deciles declined from 54 gms. in 1961-62 to 16 gms. in 1983. The consumption of pulses by the upper deciles fell from a level of 85 gms. in 1961-62 to 32 gms. in 1983.

The daily consumption of milk per person was 158 mls. in 1961-62, declined to 86 mls. in 1966-67 and increased to 93 mls. in 1983. There was an overall increase of 59% during 1961-62 to 1983. The lower deciles consumed very little milk - about 23 mls. in 1961-62 and 18 mls. in 1983. Compared to this the upper deciles consumed much larger quantitites of milk, almost 6 to 10 times that of the lower deciles.

The estimated daily average energy consumption was 2,300 Kcal in 1961-62 which was reduced to 1,800 Kcal in 1983. With an overall declines of 22%, the daily calorie intake of the lowest decile was rather poor keeping at 1,100 Kcal with little changes during 1966-67 to 1983. The average calorie consumption of the

three lowest deciles declined from 1,905 Kcal in 1961-62 to 1,343 Kcal in 1983, the decline being 29%. It was at the maximum of 2,890 Kcal in 1961-62. The change in the daily energy consumption of the average of the three upper deciles was from 2,890 Kcal in 1961-62 to 2,075 Kcal in 1983. The decline was 28% (Figure 18). About 80% of the persons derived more than 75% of their calorie intake from cereals.

The average daily per capita protein consumption was sufficiently high at 70 gms. in 1961-62 which gradually declined to 56 gms. in 1983. The decline being of the order of 20%. Decline in protein intake was smaller than the decline in energy intake. The average per capita protein intake of the three lowest deciles kept falling throughout the study period, from 58 gms. in 1961-62 to 41 gms. in 1983, a fall of 29%. The upper deciles average protein intake also declined by 29% from 89 gms. to 63 gms. during 1961-83 (Figure 19).

The percentage of population below the ICMR recommended daily per capita calorie intake of 2,150 increased from 30% in 1961-62 to 80% in 1970-71, stayed there in 1983.

The percentage of population below the ICMR recommended consumption level of 45.2 gms. of protein moved up from nil in 1961-62 to 20% in 1983.

The percentage of persons falling short of the ration of pulse protein to cereal protein (1:4, ICMR norms) and thereby the quality of protein in diet increased from 10% to 100% in 1983.

The percentage of population not consuming adequate milk (100 mls. a day, ICMR norms) increased from 60% in 1961-62 to 70% in 1983.

The percentage of persons having inadequate intake of oil (31 gms. a day, ICMR norms) remained at 100% throughout.

The percentage of persons falling below the poverty line consumption expenditure of Rs.40 at 1970-71 prices, increased from 26% to 55% from 1961-62 to 1967-68 and increased to 62% in 1983 (Figure 20).

The level of poverty in terms of consumption expenditure of Rs.40 was nearly 90% of that in terms of energy consumption in 1961-62 and 75% in 1983 (using ICMR recommended intake of 2,150 Kcal).

ANNEXURE 1

BIBLIOGRAPHY

This brief bibliography is in addition to the one annexed in Dr. Evenson's report on Food Consumption, Nutrient Intake and Agricultural Production in India, and primarily covers the referred articles and books.

1. Alhulwalia, M.S. (1986) : 'Rural Poverty, Agricultural Production and Prices; A Reexamination' in Agricultural Change and Rural Poverty, edited by Mellar, J.W. and Desai, G.M., Oxford University Press, Delhi.

2. Bhattacharya, N, Coondo, D., Maiti, P. and Mukherjee, R. (1986) : 'Relative Price of Food and the Rural Poor - The Case of India' by Indian Statistical Institute for International Labor Organization, Geneva.

3. Chaudhry, U.D. (1966) : 'Study of Trends in Consumer Expenditures, 1953-54 to 1960-61'. The Indian Economic Review. October 1966.

4. FAO, WHO (1973) : Energy and Protein Requirements. FAO Nutrition Meetings Report Series No. 52. Food and Agriculture Organization of the United Nations, Rome.

5. Gopalan, C., Rama Shastri B.V., Balasubramaniam, S.C. (1976) : 'Nutritive Value of Indian Foods', National Institute of Nutrition. Indian Council of Medical Research, Hyderabad.

6. Indian Council of Medical Research (1981) : 'Recommended Dietary Intakes for Indians' New Delhi.

7. Mellor, J.W. (1966) : 'The Economics of Agricultural Development' Cornell University Press, Ithaca, New York.

8. Rao, C.H.H. (1985) : 'Changes in Rural Poverty in India: Implications for Agrocultural Growth', Dr. Rajendra Prasad Memorial Lecture.

9. Planning Commission (1984) : Perspective Planning Division, 'Report of the Study Group on the Concepts and Estimation of Poverty Line'.

ANNEXURE 2

DATA BASE AND METHODOLOGY

I. Data Base

This study is based on the direct estimates of consumption expenditure of foodgrains and other articles made available by the National Sample Survey Organization (NSSO) since 1961. NSSO collects information on socio-economic variables on the basis of rounds, each round extending from a few months to over a year, using stratified multi-stage sampling design. Information on consumer expenditure was collected in all the rounds till the 28th round (1973-74), thereafter it was decided to collect this information every five years. The NSSO seeks to estimate all expenditures incurred by the household sector exclusively towards non-productive purposes. It includes consumption out of home grown produce, gifts, loans etc. Consumption here refers to non-productive expenditure incurred by the household during the reference of thirty days preceding the date of interview of the household. Data on monthly per capita consumer expenditure are presented by items of consumption, per capita expenditure classes, for all India and individual states for rural and urban areas separately. State-wise information is available from round 17 (61-62) except in round 19 (64-65) up to round 38 (1983).

A. Limitations of th NSSO Data for Analytical Purposes

The NSSO data, though uniform with respect to various concepts and definitions over time, still suffers from a few limitations stated below:

1. Period of enquiry in NSSO rounds ranges from a few months to over a year. It was from 14th round i.e. July 1958 - June 1959, that the period of enquiry was fixed to one year. The beginning of the round varied over the year.

2. The reference period in NSSO rounds is a moving period. The sample households are interviewed at different dates during the period of enquiry. This may produce a seasonality bias.

3 Number and structure of expenditure classes in NSSO rounds change over time. A re-arrangement of classes is required to make the data comparable.

4 Item coverage in NSSO rounds changed from time to time, necessitating a reclassification to general consistent time series for these items over the study period.

5 Difficult and complicated sampling design adopted by NSSO renders the computation of the standard error of the estimates difficult. Therefore conventional statistical tests of significance of various estimates is not possible.

6. The NSSO estimates of aggregates and distribution are affected by the particular method of consumption valuation. The NSSO values consumption out of cash purchases at actual purchase price, that out of home grown stock at ex-farm price and that out of barter and transfers at the average retail prices. The proportion of purchased articles to home grown consumption differs from class to class and year to year, and also prices actually paid by each class, place and year are different. This valuation procedure leads to inter-class and inter-regional price variations. This renders any selected price indices inappropriate for deflation of these expenditures for inter-temporal and inter-state comparisons.

II. Construction of Appropriate Deflators

The NSSO provides estimates of per capita expenditure by items of consumption and by per capita expenditure classes in every round at current prices. These expenditures need to be expressed at the same constant prices to be of any comparative use. The procedure of valuation of quantitative consumption is such that the actual recorded prices tend to vary over expenditure classes, states and places. The relative changes in prices of food items, too vary over the years.

In view of this, the task of constructing appropriate price indices to deflate these expenditures is formidable. The complications involved motivated quite a few researchers to bypass the requirement. They, instead preferred to adopt fractile analysis with expenditures at current prices and express the results as bottom X% of population incurring Y% of expenditure in year 1, 2 and so on. A comparison of $Y_{1\%}$ with $Y_{2\%}$ then provides the required over-time change.

The adequacy of this approach is put to stake by inter-class variations in prices. The relative expenses of the X% of population in real terms are likely to be at variance with their expenses in monetary terms. Fractile analysis, in fact, is a mechanism to regularise the unequal and irregular classes. A realistic, comparative picture over time emerges with the fractile analysis applied to real expenses only. This places an added importance on formation of appropriate deflators.

Montek Ahluwalia (1986) and Uma Dutta Chaudhry (1966) deflated the per capita expenditures incurred by each decile before estimating poverty. A tacit assumption of an income-distribution unaffected by price changes is thereby made. The NSSO data reveal that the prices paid by the poorer classes are lower by as much as 30% in almost all the states. The income distribution in real terms is, thus, different from income distribution in monetary terms.

NSSO round 17, 27, 28 & 32, per capita expenditure estimates of eight major cereals, total cereals, pulses and grams by per capita expenditure classes are presented in monetary values as well as in quantities. Based on this information, average and class-wise NSSO prices were calculated. On examination, these prices revealed the following types of variation:

(i) Price changes over time
(ii) Price changes over classes
(iii) Price changes over states including rural/urban variations
(iv) Price changes over commodities

Introduced price adjustment factors should take account of these variations.

Wholesale price indices in India provide the most consistent and extensive series of price indices. Other available indices like Consumer Price Indices for Agricultural Labourers (CPIAL) and Cost of Living Indices for Industrial Workers are class-specific. Besides, the divergence between the Consumer Price Indices of Agricultural Labourers and the NSSO implicit price indices based on foodgrains is consistently greater than the divergence between the wholesale price indices and the implicit NSSO price indices. The usage of CPIAL, therefore, is not considered appropriate. The use of wholesale price indices, with suitable adjustment factors for inter-class price variations and adapted to state specific NSSO implicit price indices, is considered to be the most appropriate deflator.

A. Formulation for the Deflators

Let i denote the commodities of NSSO data
r denote the rounds of NSSO
c denote the per capita expenditure classes
j denote the state i.e. Rural and Urban for the fifteen study states.

Let

I_{ri} be the wholesale price index for round r and commodity i on the selected base 1970-71

R_{cj} be the inter-class price ratio for state j class c averaged over r and i

K_{rj} be the ratio of NSSO price indices to wholesale price indices for round r and state j averaged over cereals and pulses.

Then, the required deflators are given by:

$$D_{rijc} = I_{ri} \times R_{ij} \times K_{rj}.$$

NSSO Prices for per capita expenditure classes and average of all expenditure classes for foodgrains, cereals and pulses were used to obtain R_{cj} and K_{rj}.

B. Formulation of Inter-Class Adjustment Factors

Let

V_{rijc} be the value of expenditure (Rs.) on commodity i by class c in round r and state j.

Q_{rijc} be the quantity consumed in kg. of commodity i by class c in round r and state j.

Then

$P_{rijc} = \frac{V_{rijc}}{Q_{rijc}}$ = Price of commodity i paid by class c in round r and state j

$P_{rij} = \frac{V_{rij}}{Q_{rij}}$ = Average price of commodity i in round r and state j.

$R_{rijc} = \frac{P_{rijc}}{P_{rij}}$ = Ratio of price of commodity i paid by class c to average Price of that commodity in round r state j.

$$R_{icj} = \frac{\sum_r R_{icjr}}{\text{No. of Rounds}}$$

$$R_{cj} = \frac{\sum_r R_{icj}\ V27\ icj}{\sum_i V27icj}$$

Rcj are the inter-class adjustment factors to be used for rounds 17-28 for all commodities. Rcj's calculated from cereals and pulses are assumed to hold good for all other commodities, the quantity data for which were not available. Table A 2.1 and A 2.2 give the estimated inter-class adjustment factors.

Prices paid by the open ended class were observed to change substantially when that class was closed and a new open ended class formed. Therefore an average adjustment factor was worked out for all the classes formed by breaking the earlier open ended classes.

The class structure of round 32 and 38 is altogether different from the earlier rounds. Inter-class price ratios for round 32 therefore, are based on this round itself. For round 38, the inter class price ratios are based on the weighted average of the ratios of matching classes of round 32 (Tables A 2.3 to A 2.6).

C. Formulation of Ratio of NSSO to Wholesale Prices

On the basis of average NSSO prices of cereals and pulses, price relatives were computed with 1972-73 as the base for every round for which the NSSO prices could be computed. 1972-73 was selected as the base for this purpose as quantity data and hence prices for the 1970-71 round were not available. These price relatives were compared with wholesale price indices for corresponding years with the base as 1972-73. The ratio of NSSO prices to wholesale prices was computed for each of these rounds. These ratios averaged over commodities were used as adjustment factors to wholesale price indices for the respective rounds. For the remaining rounds an average of these ratios over all the rounds was used (Tables A 2.7 & A 2.8).

Formulation

Let

$Lrij = \frac{Prij}{P27ij}$ be the price relative of average NSSO prices of cereals and pulses in round r to that in round 27.

Then $$K_{rij} = \frac{L_{rij}}{I_{ri}} \times \frac{P_{27ij}}{P_{27i}}$$

r = 17, 27, 28, 32 for all cereals and pulses.

$$K_{rj} = \frac{\Sigma K_{rij} V_{27ij}}{\Sigma V_{27ij}}$$ for all cereals and pulses.

Where P_{27i} is the all India Wholesale Price of cereals and pulses for the year corresponding to 27th round i.e. 1972-73.

K_{rj} are the required adjustment factors used for all commodities.

$$K_j = \frac{\Sigma_r K_{rj}}{\text{No. of rounds}}$$

for r other than above.

The state-All India price variations exist not only in the rate of change in prices over the years but also in the level of operative prices. The factor L_{rij}/I_{ri} takes care of the variation in the rate of change and the factor P_{rij}/P_{ri}, the ratio of state NSSO prices to All India prices, takes care of the variations in the level of prices.

Per capita food expenditure in real terms is a simple sum of the estimated deflated per capita expenditures of the individual food items. Per capita non-food expenditures are deflated by weighted price indices of all items and food items.

$$I_{rNF} = \frac{I_r - 0.7\, I_{rf}}{0.3}$$

where I_{rNF} are the price indices of non-food items
I_{rf} are the price indices of total of food items
I_r are the price indices of all consumer items

Expenditure ratio on food to non-food items was calculated from NSSO data.

Per capita deflated expenditures on all items were obtained by summing up deflated expenditure on food and non-food items.

III. Nutrition Estimates

Nutrition estimates were obtained from the per capita expenditure on food items at constant prices following two steps.

(i) The real per capita expenditures in terms of 1970-71 prices of foodgrains, cereals, pulses and other food articles were divided by their respective wholesale prices in 1970-71 to get the quantity estimates. Table A 2.9 gives the prices of food items at 1970-71 prices.

(ii) These quantity estimates were subjected to standard nutritive value conversion factors from the National Institute of Nutrition (Table A 2.10) to estimate the per capita intake of calories and protein.

IV. Definition of Poverty

The poor, in this study are indentified as those persons whose calorie intake is less than the ICMR recommended intake of 2,150 kcal per day. The expenditure 'equivalent of this calorie norm at 1970-71 prices has been worked out at Rs. 40 as follows:

Considering that 60% of total expenditure is spent on calorie giving food (Proportion of total expenditure on food is 70% and of this 85% is on calorie giving food) and assuming that this food consists of foodgrains only the 'equivalent' expenditure is

$$\frac{2150}{347} \times 1.27 \times \frac{100}{60} \times 30 = \text{Rs. } 40$$

Rs. 1.27 is the price of 1 kg. foodgrain at 1970-71 prices and which contains 347 kcal per 100 grams.

V. Fractile Analysis

Inter-temporal comparison of NSSO estimates is obstructed by frequent changes in the class structure of per capita expenditures in NSSO data. Fractile analysis provides a methodology for conversion to a uniform class pattern. Fractile groups are obtained by arranging the sample households in ascending order of per capita expenditure and then dividing them into a suitable number of groups of equal population size from the bottom. The present study, however, considers the usage of number of sample persons instead of sample households as a more meaningful measure for a study of per capita expenditures. This study attempts to estimate the proportion of total expenditure, upper terminal value and average value of per capita expenditure by fractile groups (deciles). It also attempts to provide these estimates for various subheads like expenditures on food items, total of food and total of non-food. Intake of calories and protein is also estimated by deciles.

Annexure II of the report entitled 'Food Consumption, Nutrient Intake and Agricultural Production in India' by R.E. Evenson prepared for USAID in 1986 describes the procedure of fractile analysis in detail and indicates the modifications required for the analysis of NSSO data. The formula for Gini ratio and Sen's index of poverty are also included in the Evenson report.

Table A 2.1

State Wise Inter-Class Ratios
(For rounds 17-28)

Rural

Per Capita Expenditure Classes	AP	BI	GU	HA	HP	KA	KE	MP	MA	OR	PU	RA	TN	UP	W.B.
0-8	0.84	0.80	0.79	0.90	0.84	0.82	0.85	0.84	0.84	0.92	0.95	0.86	0.92	0.92	0.95
8-11	0.84	0.80	0.79	0.90	0.84	0.82	0.85	0.84	0.84	0.92	0.95	0.86	0.92	0.92	0.95
11-13	0.84	0.80	0.79	0.90	0.84	0.82	0.85	0.84	0.84	0.92	0.95	0.86	0.92	0.92	0.95
13-15	0.84	0.80	0.79	0.90	0.84	0.82	0.90	0.88	0.84	0.92	0.95	0.86	0.92	0.95	0.96
15-18	0.89	0.80	0.88	0.90	0.84	0.84	0.90	0.91	0.84	0.96	0.95	0.86	0.92	0.95	0.96
18-21	0.92	0.83	0.91	0.90	0.84	0.90	0.91	0.93	0.84	0.96	0.95	0.86	0.93	0.96	0.98
21-24	0.93	0.87	0.95	0.94	0.90	0.90	0.93	0.93	0.84	0.96	0.95	0.93	0.95	0.96	0.98
24-28	0.98	0.90	0.96	0.94	0.90	0.92	0.96	0.96	0.93	0.99	0.96	0.95	0.95	0.96	0.99
28-34	0.98	0.92	0.99	0.95	0.90	0.96	0.96	0.97	0.93	1.00	0.96	0.97	0.99	0.96	0.99
34-43	1.02	0.97	1.00	0.96	0.90	1.03	0.96	1.01	1.00	1.03	1.01	0.98	1.00	1.00	0.99
43-55	1.04	1.01	1.01	0.98	0.96	1.04	0.96	1.07	1.00	1.09	1.02	1.02	1.02	1.00	1.03
55-75	1.10	1.05	1.09	1.00	1.01	1.12	0.99	1.07	1.14	1.10	1.02	1.02	1.07	1.04	1.04
75-100	1.10	1.06	1.18	1.01	1.03	1.12	1.12	1.07	1.14	1.10	1.02	1.07	1.07	1.04	1.04
100-150	1.10	1.06	1.18	1.04	1.08	1.12	1.12	1.07	1.14	1.10	1.02	1.07	1.07	1.04	1.04
150-200	1.10	1.06	1.18	1.04	1.08	1.12	1.12	1.07	1.14	1.10	1.02	1.07	1.07	1.04	1.04
200 & above	1.10	1.06	1.18	1.04	1.08	1.12	1.12	1.07	1.14	1.10	1.02	1.07	1.07	1.04	1.04
Average	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
% Change (Last Class over Ist Class)	31	32	49	16	29	37	32	27	36	20	7	24	16	13	10

Table A 2.2

State Wise Inter-Class Ratios
(For rounds 17-28)

Per Capita Expenditure Classes	Urban														
	AP	BI	GU	HA	HP	KA	KE	MP	MA	OR	PU	RA	TN	UP	W.B.
0-8	0.88	0.84	0.88	0.92	0.88	0.85	0.85	0.86	0.73	0.91	0.90	0.81	0.90	0.85	0.90
8-11	0.88	0.84	0.88	0.92	0.88	0.85	0.85	0.86	0.73	0.91	0.90	0.81	0.90	0.85	0.90
11-13	0.88	0.84	0.88	0.92	0.88	0.85	0.85	0.86	0.73	0.91	0.90	0.81	0.90	0.85	0.90
13-15	0.88	0.84	0.88	0.92	0.88	0.88	0.90	0.86	0.73	0.94	0.90	0.81	0.93	0.85	0.90
15-18	0.91	0.84	0.90	0.94	0.88	0.88	0.90	0.90	0.73	0.94	0.90	0.81	0.93	0.89	0.90
18-21	0.92	0.84	0.90	0.95	0.88	0.92	0.91	0.90	0.83	0.94	0.93	0.82	0.93	0.89	0.90
21-24	0.93	0.84	0.90	0.95	0.88	0.92	0.93	0.94	0.83	0.94	0.93	0.86	0.93	0.90	0.90
24-28	0.95	0.87	0.90	0.95	0.88	0.95	0.96	0.94	0.86	0.95	0.96	0.88	0.93	0.94	0.93
28-34	0.97	0.90	0.90	0.95	0.88	0.95	0.96	0.95	0.90	0.95	0.96	0.93	0.97	0.95	0.93
34-43	1.00	0.93	0.96	0.96	0.88	0.95	0.96	1.02	0.95	0.98	0.98	0.96	0.98	0.99	0.97
43-55	1.02	1.00	0.99	0.99	0.94	1.01	0.96	1.08	1.03	0.98	0.98	1.00	1.07	1.04	0.99
55-75	1.07	1.01	1.05	1.01	0.97	1.06	0.99	1.08	1.09	1.03	0.98	1.01	1.07	1.07	1.03
75-100	1.07	1.08	1.17	1.03	0.98	1.16	1.12	1.08	1.14	1.06	1.01	1.08	1.07	1.07	1.03
100-150	1.07	1.08	1.17	1.03	1.00	1.16	1.12	1.08	1.14	1.06	1.03	1.08	1.07	1.07	1.03
150-200	1.07	1.08	1.17	1.05	1.05	1.16	1.12	1.08	1.14	1.06	1.03	1.08	1.07	1.07	1.03
200 & above	1.07	1.08	1.17	1.12	1.05	1.16	1.12	1.08	1.14	1.06	1.03	1.08	1.07	1.07	1.03
Average	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
% Change (Last class Over Ist Class)	22	29	33	14	27	36	32	26	56	16	14	33	19	26	14

Table A 2.3

State Wise Inter-Class Ratios
(For round 32)

Rural

Per Capita Expenditure Classes	AP	BI	GU	HA	HP	KA	KE	MP	MA	OR	PU	RA	TN	UP	W.B.
0-10	0.73	0.94	0.75	0.93	0.82	0.85	0.92	0.84	0.77	0.92	0.96	0.74	0.82	0.86	0.91
10-15	0.73	0.94	0.75	0.93	0.82	0.85	0.92	0.84	0.77	0.92	0.96	0.74	0.82	0.86	0.91
15-20	0.73	0.94	0.75	0.93	0.82	0.85	0.92	0.84	0.77	0.92	0.96	0.74	0.82	0.86	0.91
20-30	0.81	0.94	0.75	0.93	0.82	0.85	0.92	0.84	0.80	0.95	0.96	0.92	0.88	0.88	0.96
30-35	0.86	0.94	0.84	0.97	0.92	0.91	0.94	0.95	0.89	0.96	0.96	0.92	0.93	0.94	0.96
35-40	0.92	0.95	0.89	0.97	0.96	0.94	0.95	0.96	0.92	0.99	0.96	0.92	0.94	0.95	0.97
40-50	0.95	0.97	0.94	0.99	0.96	1.00	0.98	1.00	0.97	0.99	1.03	0.98	0.95	0.97	0.98
50-60	0.98	0.99	0.99	0.99	0.99	1.01	0.99	1.02	0.97	1.02	1.03	0.98	1.01	1.00	0.99
60-70	1.02	1.01	1.01	1.00	0.99	1.09	0.99	1.04	1.05	1.03	1.03	1.02	1.01	1.08	1.01
70-80	1.04	1.02	1.04	1.00	1.00	1.10	1.02	1.04	1.06	1.04	1.03	1.02	1.01	1.08	1.03
80-100	1.04	1.04	1.04	1.00	1.01	1.15	1.02	1.04	1.08	1.04	1.03	1.02	1.06	1.08	1.03
100-150	1.08	1.08	1.12	1.02	1.06	1.25	1.07	1.06	1.13	1.06	1.03	1.02	1.10	1.08	1.05
150-200	1.08	1.08	1.12	1.02	1.06	1.25	1.07	1.06	1.13	1.06	1.03	1.02	1.10	1.08	1.05
200 & above	1.08	1.08	1.12	1.02	1.06	1.25	1.07	1.06	1.13	1.06	1.03	1.02	1.10	1.08	1.05
Average	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
% Change (last Class over Ist Class)	48	15	49	11	29	47	16	26	7	15	47	46	34	26	15

Table A 2.4

State Wise Inter-Class Ratios
(For round 32)

Per Capita Expenditure Classes	AP	BI	GU	HA	HP	KA	KE	MP	MA	OR	PU	RA	TN	UP	W.B.
											Urban				
0-10	0.88	0.86	0.89	1.00	0.88	0.81	0.93	0.84	0.70	0.87	0.96	0.86	0.84	0.91	0.91
10-15	0.83	0.86	0.89	1.00	0.88	0.81	0.93	0.84	0.70	0.87	0.96	0.86	0.84	0.91	0.91
15-20	0.88	0.91	0.89	1.00	0.88	0.81	0.93	0.84	0.70	0.88	0.96	0.86	0.84	0.91	0.91
20-30	0.88	0.92	0.89	1.00	0.88	0.81	0.98	0.84	0.70	0.90	0.96	0.86	0.88	0.91	0.91
30-35	0.89	0.93	0.89	1.00	0.88	0.85	0.98	0.91	0.75	0.93	0.96	0.94	0.92	0.91	0.93
35-40	0.91	0.93	0.91	1.00	0.92	0.89	0.99	0.92	0.78	0.93	0.98	0.95	0.92	0.93	0.93
40-50	0.93	0.96	0.91	1.00	0.94	0.91	0.99	0.94	0.83	0.96	0.98	0.96	0.95	0.94	0.97
50-60	0.98	0.98	0.95	1.00	0.94	0.96	1.01	0.99	0.84	0.97	0.98	0.96	0.97	0.97	0.98
60-70	0.99	1.00	0.99	1.00	0.95	1.01	1.01	1.01	0.94	0.99	1.00	0.99	0.99	1.00	0.99
70-80	1.00	1.02	0.99	1.00	0.98	1.06	1.01	1.04	0.97	1.03	1.00	0.99	1.00	1.00	0.99
80-100	1.01	1.06	1.00	1.00	1.06	1.11	1.03	1.06	1.00	1.03	1.07	1.02	1.02	1.01	1.02
100-150	1.05	1.15	1.07	1.00	1.07	1.22	1.03	1.08	1.08	1.07	1.11	1.09	1.07	1.12	1.10
150-200	1.05	1.15	1.07	1.00	1.07	1.22	1.03	1.08	1.23	1.07	1.11	1.09	1.07	1.12	1.10
200 & above	1.05	1.15	1.07	1.00	1.07	1.22	1.03	1.08	1.23	1.07	1.11	1.09	1.07	1.12	1.10
300 & above				1.00			1.03		1.23	1.07					
Average	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
% Change (last Class over Ist Class)	19	34	20	0	22	51	11	29	76	23	16	27	27	23	21

Table A 2.5

State Wise Inter-Class Ratios
(For round 38)

Rural

Per Capita Expenditure Classes	AP	BI	GU	HA	HP	KA	KE	MP	MA	OR	PU	RA	TN	UP	W.B.
0-30 (1)	0.73	0.92	0.72	0.93	0.82	0.77	0.89	0.81	0.72	0.90	0.96	0.76	0.79	0.81	0.93
30-40 (2)	0.86	0.92	0.83	0.97	0.94	0.84	0.92	0.92	0.83	0.95	0.96	0.92	0.89	0.89	0.96
40-50 (3)	0.91	0.95	0.90	0.99	0.96	0.91	0.95	0.96	0.90	0.98	1.00	0.98	0.90	0.93	0.98
50-60 (3)	0.94	0.97	0.95	0.99	0.99	0.92	0.96	0.98	0.90	0.99	1.00	0.98	0.95	0.98	0.99
60-70 (3)	0.98	0.99	0.97	1.00	0.99	0.99	0.96	1.00	0.97	1.00	1.00	1.02	0.96	1.02	1.01
70-85 (4)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.98	1.00	1.00	1.02	0.96	1.02	1.03
85-100(4)	1.00	1.02	1.00	1.00	1.00	1.01	1.00	1.00	1.00	1.02	1.00	1.02	1.00	1.02	1.03
100-125(5)	1.04	1.03	1.04	1.02	1.04	1.13	1.00	1.00	1.05	1.02	1.00	1.02	1.03	1.02	1.04
125-150(5)	1.04	1.03	1.04	1.02	1.04	1.13	1.00	1.00	1.05	1.02	1.00	1.02	1.03	1.02	1.04
150-200(3)	1.04	1.07	1.09	1.02	1.07	1.15	1.00	1.02	1.05	1.02	1.02	1.08	1.05	1.02	1.06
200-250(6)	1.04	1.07	1.09	1.02	1.07	1.15	1.11	1.04	1.05	1.02	1.02	1.08	1.05	1.02	1.06
250-300(6)	1.04	1.07	1.09	1.02	1.08	1.15	1.11	1.04	1.05	1.02	1.02	1.08	1.05	1.02	1.06
300 & above (6)	1.04	1.07	1.09	1.02	1.08	1.15	1.11	1.04	1.05	1.02	1.02	1.08	1.05	1.02	1.06
Average	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
% Change (Last Class Over Ist Class)	42	16	51	10	32	49	25	28	46	13	6	42	33	26	14

(1) Weighted average of the class ratios of round 32 classes 0-10, 10-15, and 20-30.
(2) Weighted average of the class ratios of round 32 classes 30-35 and 35-40.
(3) As in comparable classes of round 32.
(4) As in class 70-80 and 80-100 of round 32.
(5) As in class 100-150 of round 32.
(6) As in class 200 and above of round 32.
(7) Class ratios in round 38 as obtained on the basis of round 32, as mentioned in notes (1) to (6), were modified equating the ratio of class 70-85 or 85-100 to 1.00.

Table A 2.6

State Wise Inter-Class Ratios
(For round 38)

Urban

Per Capita Expenditure Classes		AP	BI	GU	HA	HP	KA	KE	MP	MA	OR	PU	RA	TN	UP	W.B.
0-30	(1)	0.89	0.85	0.89	1.00	0.88	0.73	0.93	0.81	0.70	0.87	0.92	0.84	0.84	0.88	0.89
30-40	(2)	0.89	0.89	0.90	1.00	0.90	0.78	0.97	0.89	0.76	0.91	0.93	0.92	0.90	0.89	0.91
40-50	(3)	0.92	0.92	0.91	1.00	0.94	0.82	0.98	0.90	0.83	0.94	0.94	0.94	0.93	0.90	0.95
50-60	(3)	0.97	0.94	0.95	1.00	0.94	0.86	1.00	0.95	0.84	0.96	0.94	0.94	0.95	0.93	0.96
60-70	(3)	0.98	0.96	0.99	1.00	0.95	0.91	1.00	0.97	0.94	1.00	0.96	0.97	0.97	0.96	0.97
70-85	(4)	0.99	0.98	0.99	1.00	0.98	0.95	1.00	1.00	0.97	1.00	0.96	0.97	0.98	0.96	0.97
85-100	(4)	1.00	1.02	1.00	1.00	1.06	1.00	1.02	1.02	1.00	1.04	0.97	1.00	1.00	0.97	1.00
100-125	(5)	1.03	1.04	1.04	1.00	1.06	1.04	1.02	1.02	1.08	1.04	1.07	1.05	1.03	1.04	1.05
125-150	(5)	1.03	1.04	1.04	1.00	1.06	1.04	1.02	1.02	1.08	1.04	1.07	1.05	1.03	1.04	1.05
150-200	(3)	1.05	1.11	1.08	1.00	1.07	1.07	1.02	1.05	1.08	1.04	1.07	1.07	1.05	1.05	1.09
200-250	(6)	1.05	1.11	1.08	1.00	1.07	1.07	1.02	1.05	1.23	1.04	1.07	1.07	1.08	1.05	1.09
250-300	(6)	1.05	1.11	1.08	1.00	1.08	1.07	1.02	1.05	1.23	1.04	1.07	1.07	1.08	1.05	1.09
300 & above	(6)	1.05	1.11	1.08	1.00	1.08	1.07	1.02	1.05	1.23	1.04	1.07	1.07	1.08	1.05	1.09
Average		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
% Change (Last Class Over Ist Class)		18	31	21	0	23	47	10	30	76	20	16	27	29	19	22

(1) Weighted average of the class ratios of round 32 classes 0-10, 10-15, and 20-30.
(2) Weighted average of the class ratios of round 32 classes 30-35 and 35-40.
(3) As in comparable classes of round 32.
(4) As in class 70-80 and 80-100 of round 32.
(5) As in class 100-150 of round 32.
(6) As in class 200 and above of round 32.
(7) Class ratios in round 38 as obtained on the basis of round 32, as mentioned in notes (1) to (6), were modified equating the ratio of class 70-85 or 85-100 to 1.00.

Table A 2.7

NSS to wholesale Price Ratio

	Rural														
Round	AP	BI	GU	HA	HP	KA	KE	MP	MA	OR	PU	RA	TN	UP	W.B.
17	0.90	0.90	0.77	-	-	0.78	1.09	0.69	0.80	0.79	0.71	0.60	0.93	0.72	1.02
18	0.90	0.96	0.88	0.73	0.85	0.91	1.15	0.84	0.88	0.86	0.67	0.72	0.89	0.77	1.01
20	0.90	0.96	0.88	0.73	0.85	0.91	1.15	0.84	0.88	0.86	0.67	0.72	0.89	0.77	1.01
21	0.90	0.96	0.88	0.73	0.85	0.91	1.15	0.84	0.88	0.86	0.67	0.72	0.89	0.77	1.01
22	0.90	0.96	0.88	0.73	0.85	0.91	1.15	0.84	0.88	0.86	0.67	0.72	0.89	0.77	1.01
23	0.90	0.96	0.88	0.73	0.85	0.91	1.15	0.84	0.88	0.86	0.67	0.72	0.89	0.77	1.01
24	0.90	0.96	0.88	0.73	0.85	0.91	1.15	0.84	0.88	0.86	0.67	0.72	0.89	0.77	1.01
25	0.90	0.96	0.88	0.73	0.85	0.91	1.15	0.84	0.88	0.86	0.67	0.72	0.89	0.77	1.01
27	0.92	1.04	0.99	0.75	0.86	1.01	1.29	0.79	0.98	0.91	0.62	0.81	0.82	0.77	1.08
28	0.92	1.32*	0.98	0.74	0.91	1.03	1.55*	0.91	1.01	0.85	0.66	0.79	0.92	0.88	1.31*
32	0.87	0.93	0.78	0.70	0.78	0.79	1.05	0.98	0.73	0.88	0.70	0.66	0.90	0.70	0.93
38	0.90	0.96	0.88	0.73	0.85	0.91	1.15	0.84	0.88	0.86	0.67	0.72	0.89	0.77	1.01
Average	0.90	0.96	0.88	0.73	0.85	0.91	1.15	0.84	0.88	0.86	0.67	0.72	0.89	0.77	1.01

* 1) Figure being abnormal was excluded from calculation of average.

Table A 2.8

NSS to wholesale Price Ratio

	Urban														
Round	AP	BI	GU	HA	HP	KA	KE	MP	MA	OR	PU	RA	TN	UP	W.B.
17	1.02	0.99	1.01	-	-	0.96	1.11	0.79	1.03	0.96	0.83	0.79	1.10	0.94	1.07
18	1.04	1.08	1.04	0.78	0.99	1.04	1.18	0.89	1.01	0.99	0.79	0.84	1.06	0.91	1.05
20	1.04	1.08	1.04	0.78	0.99	1.04	1.18	0.89	1.01	0.99	0.79	0.84	1.06	0.91	1.05
21	1.04	1.08	1.04	0.78	0.99	1.04	1.18	0.89	1.01	0.99	0.79	0.84	1.06	0.91	1.05
22	1.04	1.08	1.04	0.78	0.99	1.04	1.18	0.89	1.01	0.99	0.79	0.84	1.06	0.91	1.05
23	1.04	1.08	1.04	0.78	0.99	1.04	1.18	0.89	1.01	0.99	0.79	0.84	1.06	0.91	1.05
24	1.04	1.08	1.04	0.78	0.99	1.04	1.18	0.89	1.01	0.99	0.79	0.84	1.06	0.91	1.05
25	1.04	1.08	1.04	0.78	0.99	1.04	1.18	0.89	1.01	0.99	0.79	0.84	1.06	0.91	1.05
27	1.08	1.15	1.08	0.82	1.03	1.18	1.32	0.89	1.04	1.01	0.76	0.87	0.97	0.86	1.08
28	1.06	1.44*	1.15	0.81	1.04	1.11	1.13	1.02	1.06	1.00	0.78	0.88	1.08	1.03	1.32
32	1.00	1.07	0.93	0.72	0.90	0.93	1.15	0.87	0.91	1.00	0.79	0.81	1.09	0.80	1.00
38	1.04	1.08	1.04	0.78	0.99	1.04	1.18	0.89	1.01	0.99	0.79	0.84	1.06	0.91	1.05
Average	1.04	1.08	1.04	0.78	0.99	1.04	1.18	0.89	1.01	0.99	0.79	0.84	1.06	0.91	1.05

* 1) Figures not included for being abnormal

Table A 2.9
Prices of Food Items at 1970-71 Prices

Food Items	1970-71 Prices per kg. (Rs.)
Rice	1.35
Wheat	1.06
Jawar	0.82
Bajra	0.76
Barley	0.65
Maize	0.68
Ragi	0.65
Sm. Millets	0.68
Grams	1.08
Cereals Substitutes	0.68
Cereals (a)	1.14
Pulses	1.56
Milk	1.16
Edible oils	5.33
Meat, egg and fish	5.12
Vegetable and fruits	1.11
Sugar	1.97
Salt and spices	0.19
Beverages	0.16
Food grains (a)	1.27

(a) computed by using weights assigned to individual commodities in wholesale price indices.

Table A 2.10
Nutrient contents of Food Items

Food Items	Kilo Calories (Per 100 gms.)	Protein (Per 100 gms.)
Rice	346	7.5
Wheat	346	11.8
Bajra	361	11.6
Jawar	336	10.4
Barley	336	11.5
Maize	342	11.1
Ragi	328	7.3
Grams	360	17.1
Cereals	338	9.6
Pulses	349	23.3
Foodgrains (a)	339	10.8
Edible oils	900	0.0
Milk	83	3.8
Fruits and vegetables	69	2.9
Meat, egg and fish	150	18.0
Sugar	398	0.1

(a) Weighted average of cereal and pulse calorie and protein content

Source:

1. Hand Book of Food and Nutrition Statistics by Food and Nutrition Board, Ministry of Agriculture, Govt. of India.
2. Nutritive Value of Indian Foods, by Gopalan C. Rama Sastri, B.V. and Balasubramanian, National Institute of Nutrition.

GUIDE TO TABLES

Abbreviations

States	Rural	Urban	
Andhra Pradesh	APR	APU	AP
Bihar	BIR	BIU	BI
Gujarat	GUR	GUU	GU
Haryana	HAR	HAU	HA
Himachal Pradesh	HPR	HPU	HP
Karnataka	KAR	KAU	KA
Kerala	KER	KEU	KE
Madhya Pradesh	MPR	MPU	MP
Maharashtra	MAR	MAU	MA
Orissa	ORR	ORU	OR
Punjab	PUR	PUU	PU
Rajasthan	RAR	RAU	RA
Tamil Nadu	TNR	TNU	TN
Uttar Pradesh	UPR	UPU	UP
West Bengal	WBR	WBU	WB

National Survey Sample Organization	NSSO
Wholesale Price Indices	WPI
NSS Implicit Prices	NIP

2. **Rounds and Years**

Rounds	Corresponding Yea
17	1961-62
18	1962-63
19	1964-65
20	1965-66
21	1966-67
22	1967-68
23	1968-69
24	1969-70
25	1970-71
27	1972-73
28	1973-74
32	1977-78
38	1983

Unit of Measurement

Titles of the Table	Unit of Measurement
Listing of Deciles by Commodities	Per Capita Monthly Expenditure in Rs. at 1970-71 prices.
Per Capita Energy Intake by Deciles	
Calories per day	Kcal
Protein per day	Grams
% Cereal Calories to total calories	Percent
% Pulse Protein to Cereal Protein	Percent
% Cereal Protein to Total Protein	Percent
% Sugar Calories to Total Calories	Percent
% Oil Calories to Total Calories	Percent
Poverty Line Rs.30, Rs.40 & Rs.50	Percent
Column 2: Percentage of persons below the poverty line	
Column 3: Mean Expenditure of people below the poverty line	Rs. at 1970-71 prices
Column 4: Gini coefficient of people below the poverty line	Absolute Number
Column 5: Sen's Index of Poverty	Absolute Number

Per Capita Consumer Expenditure by Lower Deciles (average of 1, 2 &3 Deciles) and Upper Deciles (average of 7, 8 & 9 Deciles)	Rs. at 1970-71 prices
Per Capita Energy Intake by Lower and Upper Deciles	
Calories	Kcal
Protein	Grams

Page No.
08/26/86

LISTING OF DECILES BY COMMODITY

COMMODITY	ROUND	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	AVERAGE
** STATE: BIR 1												
BIR FOODGRAINS	17	14.81	21.11	24.33	27.09	28.87	31.86	34.53	33.33	36.51	30.55	25.41
BIR FOODGRAINS	18	13.34	18.98	21.89	23.94	25.79	28.46	29.25	30.70	31.31	27.91	22.76
BIR FOODGRAINS	20	14.07	20.15	23.18	25.12	27.12	28.98	32.09	34.11	36.23	43.13	26.52
BIR FOODGRAINS	21	9.19	13.83	18.11	20.47	22.87	24.89	28.64	30.35	34.07	40.95	22.60
BIR FOODGRAINS	22	9.70	13.84	16.20	17.47	19.38	21.99	23.65	24.77	27.47	34.93	19.76
BIR FOODGRAINS	23	9.94	14.61	16.68	17.68	19.07	20.00	21.50	24.15	24.89	26.83	18.74
BIR FOODGRAINS	24	12.02	16.75	18.61	20.22	21.98	23.03	24.99	26.40	28.02	34.78	20.57
BIR FOODGRAINS	25	10.79	14.83	16.58	18.07	19.44	20.47	22.70	23.73	25.47	26.83	19.92
BIR FOODGRAINS	27	10.56	13.78	15.43	17.08	18.57	19.83	21.03	23.48	25.64	22.64	19.41
BIR FOODGRAINS	28	9.45	12.71	14.12	15.45	16.84	18.68	19.57	22.04	24.27	19.77	16.23
BIR FOODGRAINS	32	10.47	14.07	15.68	17.42	18.72	20.56	21.71	22.97	24.90	22.90	19.56
BIR FOODGRAINS	38	10.29	12.95	14.65	15.95	17.63	18.85	19.59	21.96	24.17	19.39	18.45

Page No.
08/26/86

LISTING OF DECILES BY COMMODITY

COMMODITY	ROUND	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	AVERAGE
** STATE: BIR 2												
BIR CEREALS	17	11.60	17.16	20.61	22.94	24.56	26.76	29.01	27.95	30.72	24.27	21.18
BIR CEREALS	18	11.87	16.81	19.45	19.95	21.58	23.82	25.71	26.93	26.69	23.71	19.92
BIR CEREALS	20	12.51	18.16	20.32	22.36	23.87	25.36	29.08	29.91	32.11	37.92	23.38
BIR CEREALS	21	7.14	11.53	15.76	17.69	19.48	21.81	25.10	26.74	30.05	35.88	19.63
BIR CEREALS	22	8.16	12.29	14.67	16.07	17.94	20.36	22.05	23.03	25.10	32.07	18.12
BIR CEREALS	23	8.47	12.50	14.14	15.21	16.41	17.17	18.42	20.70	21.57	22.73	16.13
BIR CEREALS	24	10.27	14.25	15.96	17.73	19.08	20.08	21.79	22.94	24.20	30.09	17.80
BIR CEREALS	25	9.61	13.32	14.70	16.18	17.56	18.35	20.34	21.19	22.46	22.90	17.60
BIR CEREALS	27	9.39	12.41	14.09	15.70	17.07	18.24	19.30	21.54	23.35	17.68	17.55
BIR CEREALS	28	8.43	11.73	13.21	14.47	15.77	17.50	18.23	20.53	22.55	18.51	16.94
BIR CEREALS	32	9.85	13.24	14.69	16.32	17.50	19.22	20.18	21.21	22.89	20.58	18.15
BIR CEREALS	38	10.23	12.85	14.50	15.72	17.38	18.49	19.02	21.31	23.30	17.79	17.94

Page No. 3
08/26/86

LISTING OF DECILES BY COMMODITY

COMMODITY	ROUND	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	AVERAGE
** STATE: BIR 3												
BIR RICE & PR	17	6.11	12.25	15.93	17.74	19.89	21.03	22.79	20.43	22.67	17.11	15.96
BIR RICE & PR	27	3.18	4.93	6.75	8.33	9.99	10.67	11.91	13.30	14.92	12.72	10.27
BIR RICE & PR	28	4.62	6.50	7.48	8.86	9.66	10.71	11.75	13.24	14.97	12.81	10.56
BIR RICE & PR	32	4.89	7.51	9.03	10.03	11.10	12.19	13.02	13.97	15.53	14.92	11.57

Page No. 4
08/26/86

LISTING OF DECILES BY COMMODITY

COMMODITY	ROUND	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	AVERAGE
** STATE: BIR 4												
BIR WHEAT & PR	17	1.12	2.24	2.52	2.80	2.25	3.30	3.38	5.77	6.38	6.49	3.20
BIR WHEAT & PR	27	2.24	2.83	3.44	4.01	4.34	4.83	5.06	5.64	6.25	4.22	4.54
BIR WHEAT & PR	28	1.62	2.06	2.61	3.24	3.54	3.92	4.57	5.15	6.03	5.38	4.22
BIR WHEAT & PR	32	2.58	3.42	3.76	4.18	4.51	4.96	5.26	5.47	5.80	5.10	4.64

Page No. 5
08/26/86

LISTING OF DECILES BY COMMODITY

COMMODITY	ROUND	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	AVERAGE
** STATE: BIR 5												
BIR JAWAR & PR	17	0.04	0.06	0.02	0.02	0.04	0.06	0.07	0.07	0.08	0.00	0.06
BIR JAWAR & PR	27	0.05	0.08	0.08	0.07	0.05	0.05	0.02	0.02	0.02	0.00	0.03
BIR JAWAR & PR	28	0.00	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.02	0.00	0.01
BIR JAWAR & PR	32	0.05	0.05	0.03	0.04	0.04	0.05	0.03	0.02	0.02	0.00	0.04

Page No.
08/26/86

LISTING OF DECILES BY COMMODITY

COMMODITY	ROUND	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	AVERAGE
** STATE: BIR 6												
BIR BAJRA & PR	17	0.01	0.11	0.08	0.09	0.02	0.02	0.02	0.02	0.00	0.00	0.04
BIR BAJRA & PR	27	0.07	0.16	0.15	0.06	0.03	0.03	0.02	0.02	0.01	0.00	0.05
BIR BAJRA & PR	28	0.00	0.06	0.06	0.04	0.04	0.05	0.03	0.04	0.02	0.00	0.01
BIR BAJRA & PR	32	0.02	0.08	0.06	0.07	0.03	0.04	0.03	0.04	0.02	0.02	0.04

Page No.
08/26/86

LISTING OF DECILES BY COMMODITY

COMMODITY	ROUND	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	AVERAGE
** STATE: BIR 7												
BIR MAIZE & PR	17	1.05	0.95	0.58	0.64	0.92	1.13	1.23	1.27	1.09	0.95	0.90
BIR MAIZE & PR	27	2.87	3.28	2.78	2.53	2.12	2.26	1.84	2.05	1.80	0.74	2.11
BIR MAIZE & PR	28	1.27	2.02	1.96	1.59	1.73	1.92	1.49	1.68	1.28	0.69	1.52
BIR MAIZE & PR	32	1.54	1.49	1.25	1.39	1.27	1.40	1.32	1.25	1.04	0.50	1.29

Page No. 8
08/26/86

LISTING OF DECILES BY COMMODITY

COMMODITY	ROUND	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	AVERAGE
** STATE: BIR 8												
BIR RAGI & PR	17	0.33	0.47	0.43	0.48	0.48	0.41	0.44	0.33	0.17	0.00	0.35
BIR RAGI & PR	27	0.49	0.60	0.50	0.42	0.41	0.43	0.42	0.47	0.39	0.15	0.41
BIR RAGI & PR	28	0.43	0.42	0.42	0.25	0.27	0.30	0.12	0.14	0.21	0.00	0.29
BIR RAGI & PR	32	0.47	0.47	0.37	0.41	0.35	0.38	0.32	0.32	0.33	0.14	0.37

Page No.
08/26/86

LISTING OF DECILES BY COMMODITY

COMMODITY		ROUND	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	AVERAGE
** STATE: BIR 9													
BIR	BARLEY &PR	17	0.72	0.90	1.03	1.14	0.95	0.86	0.94	0.28	0.61	0.09	0.66
BIR	BARLEY &PR	27	0.20	0.21	0.24	0.24	0.19	0.20	0.16	0.18	0.17	0.10	0.19
BIR	BARLEY &PR	28	0.06	0.09	0.15	0.15	0.16	0.18	0.12	0.14	0.12	0.00	0.13
BIR	BARLEY &PR	32	0.10	0.09	0.06	0.07	0.08	0.09	0.09	0.08	0.10	0.03	0.08

Page No. 10
08/26/86

LISTING OF DECILES BY COMMODITY

COMMODITY		ROUND	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	AVERAGE
** STATE: BIR10													
BIR	SM. MILLET	17	0.12	0.12	0.01	0.01	0.03	0.03	0.03	0.02	0.03	0.00	0.07
BIR	SM. MILLET	27	0.18	0.21	0.13	0.09	0.08	0.09	0.08	0.09	0.09	0.00	0.09
BIR	SM. MILLET	28	0.14	0.03	0.06	0.07	0.07	0.08	0.06	0.06	0.04	0.00	0.06
BIR	SM. MILLET	32	0.10	0.05	0.06	0.07	0.07	0.08	0.06	0.03	0.04	0.01	0.06

Page No. 11
08/26/86

LISTING OF DECILES BY COMMODITY

COMMODITY	ROUND	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	AVERAGE
** STATE: BIR11												
BIR GRAM	17	0.70	0.95	0.82	0.91	0.62	1.12	1.21	1.08	1.00	0.67	0.82
BIR GRAM	20	0.29	0.35	0.38	0.30	0.28	0.42	0.47	0.55	0.45	0.51	0.37
BIR GRAM	21	0.05	0.10	0.10	0.26	0.38	0.30	0.35	0.33	0.39	0.43	0.25
BIR GRAM	22	0.05	0.17	0.20	0.13	0.15	0.17	0.16	0.20	0.26	0.30	0.17
BIR GRAM	23	0.12	0.26	0.27	0.26	0.28	0.42	0.37	0.41	0.37	0.40	0.27
BIR GRAM	24	0.05	0.06	0.06	0.15	0.18	0.19	0.20	0.30	0.40	0.56	0.20
BIR GRAM	25	0.07	0.07	0.11	0.12	0.18	0.19	0.21	0.27	0.40	0.54	0.25
BIR GRAM	27	0.13	0.16	0.16	0.19	0.23	0.24	0.25	0.28	0.31	0.58	0.29
BIR GRAM	28	0.01	0.05	0.06	0.11	0.12	0.13	0.20	0.23	0.30	0.18	0.18
BIR GRAM	32	0.07	0.13	0.16	0.18	0.21	0.23	0.27	0.31	0.37	0.58	0.24
BIR GRAM	38	0.02	0.04	0.06	0.06	0.07	0.09	0.14	0.15	0.20	0.37	0.12

Page No. 12
08/26/86

LISTING OF DECILES BY COMMODITY

COMMODITY	ROUND	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	AVERAGE
** STATE: BIR13												
BIR CEREAL SUB	17	0.85	0.72	0.39	0.44	0.36	0.29	0.32	0.12	0.15	0.10	0.33
BIR CEREAL SUB	18	0.45	0.45	0.39	1.61	1.48	1.64	0.32	0.17	0.21	0.01	0.24
BIR CEREAL SUB	20	0.85	0.91	0.96	1.30	1.34	1.17	1.29	1.07	0.65	0.23	0.91
BIR CEREAL SUB	21	1.70	1.58	1.50	1.49	1.80	1.43	1.65	1.36	1.24	1.23	1.35
BIR CEREAL SUB	22	1.72	1.46	1.31	1.15	1.08	1.23	1.06	0.71	0.47	0.50	0.98
BIR CEREAL SUB	23	0.80	0.99	1.15	0.84	0.90	0.77	0.94	1.05	0.25	0.49	0.68
BIR CEREAL SUB	24	0.96	1.22	1.23	0.88	0.93	0.85	0.92	0.69	0.46	0.28	0.79
BIR CEREAL SUB	25	0.62	0.73	0.84	0.73	0.60	0.54	0.60	0.42	0.30	0.15	0.45
BIR CEREAL SUB	27	0.88	0.96	0.81	0.67	0.58	0.62	0.48	0.54	0.41	0.60	0.58
BIR CEREAL SUB	28	1.12	0.99	0.80	0.64	0.70	0.77	0.59	0.66	0.45	0.03	0.61
BIR CEREAL SUB	32	0.53	0.46	0.39	0.43	0.35	0.38	0.31	0.28	0.20	0.05	0.35
BIR CEREAL SUB	38	0.13	0.13	0.10	0.07	0.08	0.07	0.06	0.06	0.04	0.00	0.07

Page No. 13
08/26/86

LISTING OF DECILES BY COMMODITY

COMMODITY		ROUND	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	AVERAGE
** STATE: BIR14													
BIR	PULSE & PR	17	1.50	2.03	2.15	2.40	2.92	3.30	3.58	3.84	4.25	5.47	2.80
BIR	PULSE & PR	18	0.96	1.65	1.97	2.30	2.64	2.91	3.13	3.51	4.35	4.14	2.53
BIR	PULSE & PR	20	0.56	0.95	1.25	1.44	1.91	2.27	2.52	2.85	3.29	4.73	2.08
BIR	PULSE & PR	21	0.40	0.75	0.92	1.20	1.36	1.53	1.76	2.14	2.61	3.66	1.55
BIR	PULSE & PR	22	0.31	0.58	0.77	0.93	1.09	1.24	1.44	1.82	2.55	3.24	1.33
BIR	PULSE & PR	23	0.47	0.75	1.01	1.26	1.35	1.53	1.65	1.85	2.59	3.10	1.56
BIR	PULSE & PR	24	0.72	1.19	1.34	1.42	1.65	1.87	2.02	2.40	2.88	3.74	1.73
BIR	PULSE & PR	25	0.50	0.70	0.92	1.04	1.11	1.39	1.55	1.85	2.30	3.23	1.61
BIR	PULSE & PR	27	0.40	0.56	0.71	0.87	1.05	1.12	1.38	1.54	1.98	3.71	1.32
BIR	PULSE & PR	28	0.29	0.45	0.58	0.75	0.82	0.91	1.13	1.27	1.59	1.53	1.04
BIR	PULSE & PR	32	0.45	0.75	0.97	1.07	1.25	1.38	1.59	1.79	2.06	2.13	1.40
BIR	PULSE & PR	38	0.36	0.48	0.60	0.73	0.80	0.93	1.09	1.22	1.46	1.66	0.99

Page No. 14
08/26/86

LISTING OF DECILES BY COMMODITY

COMMODITY		ROUND	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	AVERAGE
** STATE: BIR15													
BIR	MILK & PR	17	0.10	0.44	0.87	0.97	1.31	1.76	1.91	2.72	4.77	6.79	2.04
BIR	MILK & PR	18	0.11	0.25	0.48	0.86	1.17	1.29	1.98	2.87	4.05	7.57	1.93
BIR	MILK & PR	20	0.12	0.35	0.33	0.46	1.01	1.53	1.69	2.20	3.02	7.18	1.74
BIR	MILK & PR	21	0.17	0.36	0.48	0.75	0.83	1.14	1.31	2.00	3.14	7.14	1.70
BIR	MILK & PR	22	0.09	0.28	0.37	0.76	1.02	1.16	1.62	2.48	4.25	7.15	1.91
BIR	MILK & PR	23	0.05	0.15	0.41	0.73	0.79	1.08	1.29	1.45	2.28	6.44	1.53
BIR	MILK & PR	24	0.13	0.33	0.53	0.69	1.03	1.64	1.78	2.65	3.89	6.85	1.76
BIR	MILK & PR	25	0.07	0.14	0.33	0.40	0.56	1.07	1.18	1.77	2.74	5.66	1.78
BIR	MILK & PR	27	0.14	0.21	0.33	0.43	0.66	0.71	1.36	1.52	2.57	7.36	1.56
BIR	MILK & PR	28	0.07	0.20	0.29	0.56	0.61	0.68	1.12	1.26	2.01	4.47	1.28
BIR	MILK & PR	32	0.12	0.36	0.62	0.69	1.08	1.19	1.82	2.55	3.72	6.79	1.87
BIR	MILK & PR	38	0.09	0.18	0.32	0.68	0.75	1.20	1.89	2.12	3.11	4.98	1.73

Page No. 15
08/26/86

LISTING OF DECILES BY COMMODITY

COMMODITY		ROUND	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	AVERAGE
** STATE: BIR16													
BIR	EDIBLE OIL	17	0.57	0.79	0.89	1.00	1.21	1.37	1.49	1.62	2.07	2.27	1.17
BIR	EDIBLE OIL	20	0.47	0.72	0.84	0.99	1.17	1.23	1.36	1.42	1.58	3.99	1.26
BIR	EDIBLE OIL	21	0.36	0.61	0.75	0.81	0.90	1.05	1.20	1.36	1.53	2.65	1.03
BIR	EDIBLE OIL	22	0.37	0.55	0.67	0.74	0.85	0.97	1.10	1.33	1.64	2.08	0.98
BIR	EDIBLE OIL	23	0.34	0.46	0.67	0.77	0.83	0.86	0.95	1.07	1.28	1.82	0.89
BIR	EDIBLE OIL	24	0.39	0.61	0.75	0.85	0.92	1.00	1.09	1.30	1.62	2.54	1.00
BIR	EDIBLE OIL	25	0.38	0.54	0.67	0.79	0.85	0.97	1.07	1.23	1.48	2.11	1.09
BIR	EDIBLE OIL	27	0.48	0.67	0.79	0.92	1.06	1.13	1.28	1.42	1.65	3.21	1.24
BIR	EDIBLE OIL	28	0.35	0.50	0.60	0.70	0.77	0.85	0.99	1.12	1.35	1.63	0.96
BIR	EDIBLE OIL	32	0.49	0.76	0.98	1.09	1.25	1.37	1.50	1.64	1.92	2.34	1.36
BIR	EDIBLE OIL	38	0.54	0.70	0.80	0.94	1.04	1.18	1.29	1.45	1.65	2.86	1.23

Page No. 16
08/26/86

LISTING OF DECILES BY COMMODITY

COMMODITY		ROUND	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	AVERAGE
** STATE: BIR17													
BIR	MEAT,EGG,F	17	0.27	0.57	0.67	0.75	1.12	1.57	1.70	1.38	1.48	0.70	0.95
BIR	MEAT,EGG,F	20	0.18	0.30	0.34	0.49	0.61	0.70	0.78	1.05	1.31	2.97	0.82
BIR	MEAT,EGG,F	21	0.15	0.20	0.29	0.36	0.41	0.52	0.60	0.76	0.88	1.79	0.55
BIR	MEAT,EGG,F	22	0.17	0.26	0.27	0.48	0.62	0.71	0.99	1.26	1.61	2.23	0.83
BIR	MEAT,EGG,F	23	0.14	0.28	0.51	0.66	0.71	0.68	0.75	0.85	1.50	2.20	0.80
BIR	MEAT,EGG,F	24	0.27	0.41	0.49	0.67	0.81	0.92	1.00	1.23	1.71	2.59	0.90
BIR	MEAT,EGG,F	25	0.23	0.32	0.43	0.60	0.68	0.75	0.84	1.10	1.37	2.33	0.98
BIR	MEAT,EGG,F	27	0.18	0.28	0.35	0.45	0.66	0.70	0.84	0.94	1.16	2.42	0.82
BIR	MEAT,EGG,F	28	0.17	0.29	0.38	0.49	0.53	0.59	0.74	0.83	1.02	2.36	0.70
BIR	MEAT,EGG,F	32	0.25	0.38	0.48	0.54	0.64	0.70	0.85	1.06	1.37	2.52	0.86
BIR	MEAT,EGG,F	38	0.15	0.25	0.34	0.39	0.43	0.51	0.67	0.75	0.94	2.14	0.65

Page No.
08/26/86

LISTING OF DECILES BY COMMODITY

COMMODITY		ROUND	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	AVERAGE
** STATE: BIR18													
BIR	VEG,FR,NUT	20	0.72	0.97	1.14	1.26	1.44	1.64	1.81	2.25	2.70	4.25	1.73
BIR	VEG,FR,NUT	21	0.54	0.88	1.02	1.19	1.37	1.44	1.66	1.83	2.28	3.69	1.52
BIR	VEG,FR,NUT	22	0.61	0.89	1.11	1.22	1.30	1.47	1.75	2.09	2.77	3.92	1.65
BIR	VEG,FR,NUT	23	0.65	0.91	0.98	1.07	1.16	1.22	1.28	1.43	1.82	2.94	1.33
BIR	VEG,FR,NUT	24	0.74	1.08	1.25	1.34	1.54	1.75	1.90	2.20	2.75	4.28	1.71
BIR	VEG,FR,NUT	25	0.72	1.07	1.12	1.16	1.33	1.49	1.66	1.78	2.20	3.26	1.69
BIR	VEG,FR,NUT	27	0.86	1.09	1.19	1.35	1.53	1.63	1.84	2.05	2.48	5.81	1.87
BIR	VEG,FR,NUT	28	0.64	0.75	0.89	1.05	1.14	1.27	1.41	1.59	1.86	2.56	1.35
BIR	VEG,FR,NUT	32	0.86	1.23	1.46	1.62	1.78	1.96	2.11	2.30	2.65	6.00	1.97
BIR	VEG,FR,NUT	38	1.07	1.37	1.54	1.75	1.93	2.15	2.35	2.63	3.00	3.51	2.21

Page No. 18
08/26/86

LISTING OF DECILES BY COMMODITY

COMMODITY		ROUND	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	AVERAGE
** STATE: BIR21													
BIR	SUGAR	17	0.19	0.23	0.22	0.25	0.36	0.46	0.50	0.74	1.07	1.09	0.48
BIR	SUGAR	20	0.11	0.19	0.24	0.28	0.33	0.43	0.47	0.57	0.76	2.23	0.53
BIR	SUGAR	21	0.07	0.13	0.16	0.26	0.35	0.40	0.46	0.55	0.68	1.37	0.42
BIR	SUGAR	22	0.10	0.12	0.17	0.24	0.34	0.38	0.47	0.65	1.08	1.63	0.51
BIR	SUGAR	23	0.12	0.13	0.23	0.31	0.34	0.38	0.44	0.50	1.21	1.68	0.57
BIR	SUGAR	24	0.10	0.17	0.23	0.30	0.37	0.48	0.52	0.71	0.94	1.58	0.49
BIR	SUGAR	25	0.09	0.19	0.21	0.23	0.28	0.40	0.44	0.58	0.76	1.17	0.51
BIR	SUGAR	27	0.09	0.13	0.14	0.17	0.24	0.26	0.35	0.39	0.54	2.18	0.38
BIR	SUGAR	28	0.10	0.13	0.14	0.18	0.20	0.22	0.30	0.33	0.45	0.49	0.30
BIR	SUGAR	32	0.10	0.18	0.24	0.27	0.34	0.37	0.44	0.51	0.64	1.03	0.42
BIR	SUGAR	38	0.12	0.17	0.22	0.28	0.31	0.38	0.47	0.53	0.65	1.41	0.45

Page No. 19
08/26/86

LISTING OF DECILES BY COMMODITY

COMMODITY		ROUND	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	AVERAGE
** STATE: BIR22													
BIR	SALT,SPICE	17	0.11	0.13	0.12	0.14	0.15	0.15	0.17	0.18	0.15	0.16	0.13
BIR	SALT,SPICE	20	0.35	0.48	0.53	0.60	0.70	0.74	0.82	0.85	0.90	1.42	0.68
BIR	SALT,SPICE	21	0.25	0.43	0.48	0.52	0.60	0.63	0.72	0.74	0.85	1.06	0.58
BIR	SALT,SPICE	22	0.25	0.35	0.42	0.47	0.50	0.57	0.60	0.64	0.72	0.95	0.52
BIR	SALT,SPICE	23	0.33	0.44	0.53	0.58	0.62	0.66	0.72	0.80	0.89	1.10	0.66
BIR	SALT,SPICE	24	0.36	0.52	0.58	0.64	0.71	0.76	0.83	0.92	1.08	1.49	0.71
BIR	SALT,SPICE	25	0.34	0.47	0.53	0.58	0.63	0.66	0.73	0.78	0.91	1.24	0.71
BIR	SALT,SPICE	27	0.38	0.48	0.53	0.58	0.61	0.66	0.70	0.78	0.85	1.48	0.67
BIR	SALT,SPICE	28	0.29	0.36	0.41	0.44	0.48	0.53	0.56	0.63	0.72	0.87	0.55
BIR	SALT,SPICE	32	0.40	0.51	0.59	0.65	0.71	0.78	0.82	0.88	0.98	1.10	0.76
BIR	SALT,SPICE	38	0.34	0.42	0.47	0.50	0.55	0.58	0.59	0.66	0.73	0.74	0.58

Page No. 20
08/26/86

LISTING OF DECILES BY COMMODITY

COMMODITY		ROUND	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	AVERAGE
** STATE: BIR25													
BIR	BEV,REF.	20	0.17	0.55	0.49	0.31	0.40	0.34	0.37	0.53	0.91	1.48	0.52
BIR	BEV,REF.	21	0.23	0.34	0.33	0.25	0.20	0.29	0.33	0.51	0.67	1.70	0.45
BIR	BEV,REF.	22	0.35	0.36	0.34	0.41	0.36	0.41	0.52	0.74	0.85	1.33	0.57
BIR	BEV,REF.	23	0.05	0.09	0.13	0.27	0.29	0.39	0.32	0.35	0.81	2.39	0.54
BIR	BEV,REF.	24	0.15	0.27	0.38	0.31	0.32	0.44	0.48	0.62	0.70	1.69	0.49
BIR	BEV,REF.	25	0.11	0.18	0.21	0.29	0.29	0.34	0.38	0.42	0.46	0.97	0.40
BIR	BEV,REF.	27	0.13	0.18	0.24	0.24	0.25	0.27	0.34	0.38	0.50	1.90	0.40
BIR	BEV,REF.	28	0.08	0.18	0.17	0.20	0.21	0.24	0.25	0.28	0.31	3.09	0.36
BIR	BEV,REF.	32	0.08	0.11	0.17	0.19	0.23	0.26	0.32	0.38	0.46	1.41	0.33
BIR	BEV,REF.	38	0.10	0.14	0.20	0.24	0.27	0.32	0.48	0.54	0.71	1.98	0.47

Page No. 21
08/26/86

LISTING OF DECILES BY COMMODITY

COMMODITY	ROUND	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	AVERAGE
** STATE: BIR26												
BIR OTHER FOOD	17	2.58	3.54	4.26	4.75	5.61	6.40	6.93	8.20	8.54	12.81	5.52
BIR OTHER FOOD	18	2.35	3.38	3.97	4.70	5.65	6.24	6.85	7.28	9.51	15.34	5.71

Page No. 22
08/26/86

LISTING OF DECILES BY COMMODITY

COMMODITY	ROUND	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	AVERAGE
** STATE: BIR27												
BIR TOTAL FOOD	17	17.32	24.99	29.44	32.78	36.00	40.57	43.98	44.69	50.67	49.33	33.15
BIR TOTAL FOOD	18	16.11	23.05	26.83	30.00	33.14	36.58	38.62	41.37	45.30	50.91	30.79
BIR TOTAL FOOD	20	16.87	24.66	28.26	30.82	34.08	36.95	40.91	44.58	49.03	68.43	35.03
BIR TOTAL FOOD	21	11.58	17.69	22.83	25.96	29.06	31.96	36.78	39.99	46.14	62.37	30.24
BIR TOTAL FOOD	22	12.80	18.29	21.48	23.81	26.60	30.18	33.35	36.60	43.08	57.38	28.84
BIR TOTAL FOOD	23	12.09	17.77	20.94	22.89	24.70	26.19	28.24	31.72	35.76	46.42	25.90
BIR TOTAL FOOD	24	14.47	20.58	23.30	25.53	28.10	30.54	33.15	36.56	41.20	56.20	28.08
BIR TOTAL FOOD	25	12.73	17.73	20.09	22.14	24.06	26.16	29.01	31.40	35.39	43.59	27.07
BIR TOTAL FOOD	27	13.55	17.78	20.07	22.42	24.92	26.62	29.28	32.68	37.32	49.48	27.80
BIR TOTAL FOOD	28	11.64	15.76	17.70	19.85	21.64	24.00	25.98	29.25	33.31	36.51	24.72
BIR TOTAL FOOD	32	12.65	17.45	20.05	22.27	24.52	26.92	29.28	31.94	36.21	41.24	26.85
BIR TOTAL FOOD	38	12.51	15.95	18.28	20.41	22.56	24.78	26.91	30.16	34.40	36.92	25.39

Page No. 23
08/26/86

LISTING OF DECILES BY COMMODITY

COMMODITY	ROUND	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	AVERAGE
** STATE: BIR30												
BIR TOTAL EXP.	17	20.48	29.56	34.71	38.65	43.07	49.18	53.31	58.07	67.85	99.37	42.86
BIR TOTAL EXP.	18	19.09	27.60	32.49	36.61	40.87	45.11	48.59	53.52	63.50	99.56	41.19
BIR TOTAL EXP.	20	20.03	28.65	33.01	36.90	40.87	44.52	49.29	54.76	62.96	106.64	44.72
BIR TOTAL EXP.	21	13.75	20.92	26.61	30.20	34.10	37.54	43.20	47.83	56.31	82.37	36.74
BIR TOTAL EXP.	22	15.40	22.11	25.96	28.87	32.47	36.84	41.38	47.25	57.94	79.59	50.09
BIR TOTAL EXP.	23	14.45	21.07	25.09	27.63	29.80	32.10	35.15	39.50	51.49	76.31	34.39
BIR TOTAL EXP.	24	17.28	24.32	27.59	30.65	34.06	38.00	41.24	47.00	55.62	84.78	36.32
BIR TOTAL EXP.	25	14.97	20.95	23.96	26.34	28.62	31.65	35.10	38.85	45.00	63.34	34.53
BIR TOTAL EXP.	27	16.06	21.16	24.11	27.09	30.37	32.44	36.53	40.78	48.07	76.56	35.74
BIR TOTAL EXP.	28	13.36	17.97	20.49	22.91	24.97	27.69	30.32	34.14	40.41	65.29	30.35
BIR TOTAL EXP.	32	15.04	20.66	23.95	26.60	29.55	32.45	35.96	40.25	47.14	68.13	34.15
BIR TOTAL EXP.	38	15.04	19.25	22.10	24.81	27.43	30.33	33.50	37.54	44.05	64.97	32.68

Page No. 24
08/26/86

LISTING OF DECILES BY COMMODITY

COMMODITY	ROUND	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	AVERAGE
** STATE: BIR31												
BIR NON FOOD	17	3.16	4.56	5.27	5.87	7.07	8.61	9.33	13.39	17.18	50.04	9.71
BIR NON FOOD	18	2.98	4.55	5.66	6.61	7.73	8.54	9.97	12.16	18.20	48.66	10.40
BIR NON FOOD	20	3.16	3.99	4.75	6.08	6.79	7.57	8.39	10.18	13.93	38.22	9.69
BIR NON FOOD	21	2.17	3.23	3.79	4.24	5.04	5.58	6.42	7.84	10.16	20.00	6.49
BIR NON FOOD	22	2.60	3.83	4.48	5.06	5.87	6.66	8.02	10.65	14.87	22.21	21.25
BIR NON FOOD	23	2.37	3.30	4.15	4.73	5.11	5.91	6.92	7.77	15.73	29.89	8.49
BIR NON FOOD	24	2.80	3.74	4.29	5.13	5.96	7.46	8.10	10.44	14.42	28.58	8.24
BIR NON FOOD	25	2.24	3.22	3.87	4.20	4.56	5.49	6.09	7.45	9.61	19.75	7.46
BIR NON FOOD	27	2.51	3.38	4.05	4.66	5.45	5.82	7.25	8.10	10.75	27.08	7.94
BIR NON FOOD	28	1.71	2.21	2.79	3.06	3.33	3.69	4.34	4.89	7.10	28.78	5.63
BIR NON FOOD	32	2.39	3.22	3.90	4.33	5.04	5.53	6.68	8.32	10.94	26.90	7.30
BIR NON FOOD	39	2.54	3.31	3.82	4.40	4.86	5.54	6.58	7.38	9.65	28.06	7.29

Page No. 25
08/26/86

LISTING OF DECILES BY COMMODITY

COMMODITY	ROUND	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	AVERAGE
** STATE: BIU 1												
BIU FOODGRAINS	17	17.03	19.69	22.93	25.28	26.93	27.02	27.90	23.40	25.25	29.92	21.58
BIU FOODGRAINS	18	13.47	17.95	20.31	21.50	24.28	23.16	20.23	21.94	21.25	22.32	18.24
BIU FOODGRAINS	20	12.69	16.44	18.86	20.50	22.47	23.44	22.64	22.03	21.22	23.02	18.10
BIU FOODGRAINS	21	10.45	14.29	17.17	18.93	19.43	19.97	23.10	23.32	24.19	28.28	17.47
BIU FOODGRAINS	22	9.53	13.18	14.15	15.50	15.99	17.97	18.26	17.43	15.33	25.70	15.39
BIU FOODGRAINS	23	11.25	15.73	17.18	17.31	17.34	19.53	18.77	17.18	14.55	24.58	16.02
BIU FOODGRAINS	24	12.71	15.97	17.04	17.92	19.92	19.64	18.03	21.90	18.02	28.94	17.24
BIU FOODGRAINS	25	12.32	15.97	17.35	19.07	18.48	17.91	22.75	20.72	16.60	28.93	17.36
BIU FOODGRAINS	27	11.41	14.49	15.89	17.61	18.26	19.86	19.13	18.53	16.08	16.48	17.03
BIU FOODGRAINS	28	10.30	12.93	13.81	14.73	15.56	17.52	17.75	19.30	17.31	15.53	15.98
BIU FOODGRAINS	32	11.49	14.14	15.36	16.13	16.33	16.24	17.71	17.16	20.07	14.41	16.87
BIU FOODGRAINS	38	11.59	13.97	15.00	14.90	16.62	16.83	19.04	17.96	19.16	18.40	16.85

Page No. 26
08/26/86

LISTING OF DECILES BY COMMODITY

COMMODITY	ROUND	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	AVERAGE
** STATE: BIU 2												
BIU CEREALS	17	14.71	16.67	19.41	21.57	22.86	22.50	23.27	19.25	20.74	24.42	18.09
BIU CEREALS	18	12.14	16.12	18.16	18.94	21.39	20.18	17.29	18.44	18.14	19.13	15.93
BIU CEREALS	20	11.43	14.67	16.82	17.88	19.59	20.55	20.10	19.46	18.58	19.76	15.93
BIU CEREALS	21	9.07	12.64	15.64	17.24	17.63	17.97	20.79	20.86	21.79	25.45	15.72
BIU CEREALS	22	8.37	11.99	13.27	14.32	14.70	16.52	16.70	15.85	13.78	23.10	14.06
BIU CEREALS	23	9.88	13.60	14.95	15.24	15.10	17.01	16.23	14.85	12.39	20.94	13.87
BIU CEREALS	24	11.31	14.26	15.35	15.88	17.66	17.25	15.88	19.30	15.57	25.01	15.16
BIU CEREALS	25	11.00	14.26	15.39	16.91	16.31	15.75	20.01	17.94	14.29	24.89	15.18
BIU CEREALS	27	10.65	13.41	14.63	16.21	16.72	18.19	17.22	16.42	14.06	13.67	15.28
BIU CEREALS	28	9.84	12.39	13.20	14.08	14.79	16.65	16.66	18.11	15.88	13.18	14.97
BIU CEREALS	32	10.69	13.16	14.22	14.73	14.76	14.45	15.77	15.06	17.61	11.91	15.11
BIU CEREALS	38	11.35	13.63	14.57	14.26	15.90	15.88	17.97	16.67	17.54	16.29	15.83

Page No. 27
08/26/86

LISTING OF DECILES BY COMMODITY

COMMODITY	ROUND	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	AVERAGE
** STATE: BIU 3												
BIU RICE & PR	17	10.49	12.43	14.47	16.33	17.86	17.37	17.02	13.38	13.71	15.90	13.15
BIU RICE & PR	27	5.69	7.21	8.05	8.92	9.66	10.51	10.50	10.28	8.96	8.72	9.14
BIU RICE & PR	28	5.33	7.27	7.94	8.47	9.06	10.20	10.58	11.50	9.96	8.73	9.19
BIU RICE & PR	32	6.07	7.67	8.63	9.21	9.39	9.10	9.92	9.48	11.09	7.78	9.37

Page No. 28
08/26/86

LISTING OF DECILES BY COMMODITY

COMMODITY	ROUND	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	AVERAGE
** STATE: BIU 4												
BIU WHEAT & PR	17	4.27	4.50	5.23	5.48	5.25	5.08	6.08	6.20	7.33	8.75	5.06
BIU WHEAT & PR	27	4.00	5.39	6.01	6.67	6.41	6.97	6.40	6.36	5.40	5.28	5.96
BIU WHEAT & PR	28	4.03	4.47	5.19	5.54	5.64	6.34	6.02	6.54	6.49	5.37	5.82
BIU WHEAT & PR	32	4.04	4.93	5.28	5.35	5.25	5.32	5.80	5.57	6.52	4.04	5.54

Page No. 29
08/26/86

LISTING OF DECILES BY COMMODITY

COMMODITY	ROUND	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	AVERAGE
** STATE: BIU 5												
BIU JAWAR & PR	17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.12	0.02
BIU JAWAR & PR	27	0.01	0.01	0.03	0.03	0.05	0.06	0.03	0.02	0.01	0.02	0.02
BIU JAWAR & PR	28	0.07	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01
BIU JAWAR & PR	32	0.01	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01

Page No. 30
08/26/86

LISTING OF DECILES BY COMMODITY

COMMODITY	ROUND	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	AVERAGE
** STATE: BIU 6												
BIU BAJRA & PR	17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BIU BAJRA & PR	27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
BIU BAJRA & PR	28	0.00	0.00	0.01	0.01	0.07	0.08	0.09	0.10	0.02	0.00	0.05
BIU BAJRA & PR	32	0.03	0.01	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.15	0.02

Page No. 31
08/26/86

LISTING OF DECILES BY COMMODITY

COMMODITY	ROUND	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	AVERAGE
** STATE: BIU 7												
BIU MAIZE & PR	17	0.20	0.02	0.02	0.09	0.11	0.05	0.17	0.04	0.01	0.13	0.10
BIU MAIZE & PR	27	1.05	1.02	0.83	0.92	0.93	1.02	0.70	0.22	0.09	0.02	0.51
BIU MAIZE & PR	28	0.64	0.82	0.56	0.60	0.49	0.55	0.42	0.46	0.17	0.00	0.44
BIU MAIZE & PR	32	0.51	0.51	0.33	0.23	0.19	0.13	0.14	0.10	0.12	0.02	0.24

Page No. 32
08/26/86

LISTING OF DECILES BY COMMODITY

COMMODITY	ROUND	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	AVERAGE
** STATE: BIU 8												
BIU RAGI & PR	17	0.00	0.02	0.03	0.02	0.00	0.07	0.07	0.00	0.00	0.00	0.02
BIU RAGI & PR	27	0.07	0.06	0.04	0.04	0.04	0.04	0.02	0.00	0.00	0.00	0.03
BIU RAGI & PR	28	0.06	0.07	0.02	0.02	0.00	0.00	0.03	0.04	0.04	0.00	0.03
BIU RAGI & PR	32	0.04	0.06	0.04	0.03	0.01	0.01	0.01	0.01	0.01	0.00	0.02

Page No. 33
08/26/86

LISTING OF DECILES BY COMMODITY

COMMODITY		ROUND	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	AVERAGE
** STATE: BIU 9													
BIU	BARLEY &PR	17	0.00	0.00	0.00	0.00	0.00	0.25	0.29	0.00	0.01	0.01	0.05
BIU	BARLEY &PR	27	0.04	0.06	0.05	0.06	0.03	0.04	0.01	0.01	0.01	0.03	0.03
BIU	BARLEY &PR	28	0.06	0.04	0.01	0.01	0.09	0.10	0.09	0.10	0.00	0.00	0.05
BIU	BARLEY &PR	32	0.00	0.01	0.01	0.00	0.00	0.01	0.01	0.01	0.01	0.00	0.01

Page No. 34
08/26/86

LISTING OF DECILES BY COMMODITY

COMMODITY		ROUND	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	AVERAGE
** STATE: BIU10													
BIU	SM. MILLET	17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BIU	SM. MILLET	27	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BIU	SM. MILLET	28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BIU	SM. MILLET	32	0.01	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01

Page No. 35
08/26/86

LISTING OF DECILES BY COMMODITY

COMMODITY	ROUND	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	AVERAGE
** STATE: BIU11												
BIU GRAM	17	0.19	0.13	0.15	0.16	0.17	0.34	0.33	0.31	0.23	0.61	0.25
BIU GRAM	20	0.13	0.17	0.17	0.42	0.46	0.42	0.20	0.19	0.25	0.38	0.26
BIU GRAM	21	0.16	0.22	0.20	0.23	0.22	0.19	0.22	0.26	0.23	0.22	0.18
BIU GRAM	22	0.10	0.08	0.12	0.19	0.23	0.26	0.21	0.12	0.15	0.25	0.16
BIU GRAM	23	0.15	0.42	0.32	0.20	0.26	0.29	0.31	0.25	0.25	0.43	0.26
BIU GRAM	24	0.19	0.19	0.15	0.18	0.20	0.22	0.24	0.29	0.28	0.46	0.21
BIU GRAM	25	0.12	0.17	0.19	0.20	0.20	0.24	0.30	0.44	0.37	0.64	0.28
BIU GRAM	27	0.11	0.17	0.17	0.18	0.21	0.23	0.30	0.34	0.34	0.53	0.28
BIU GRAM	28	0.15	0.09	0.07	0.08	0.11	0.12	0.20	0.22	0.28	0.61	0.18
BIU GRAM	32	0.14	0.13	0.16	0.25	0.28	0.30	0.33	0.41	0.48	0.63	0.33
BIU GRAM	38	0.07	0.09	0.10	0.13	0.15	0.22	0.25	0.31	0.39	0.51	0.24

Page No. 36
08/26/86

LISTING OF DECILES BY COMMODITY

COMMODITY	ROUND	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	AVERAGE
** STATE: BIU13												
BIU CEREAL SUB	17	0.04	0.01	0.02	0.06	0.06	0.00	0.06	0.01	0.00	0.14	0.04
BIU CEREAL SUB	18	0.00	0.08	0.10	0.02	0.03	0.00	0.26	0.29	0.04	0.06	0.08
BIU CEREAL SUB	20	0.33	0.31	0.18	0.47	0.51	0.48	0.17	0.05	0.05	0.02	0.21
BIU CEREAL SUB	21	0.42	0.49	0.30	0.23	0.21	0.26	0.31	0.20	0.05	0.02	0.20
BIU CEREAL SUB	22	0.40	0.39	0.27	0.25	0.18	0.21	0.11	0.08	0.01	0.02	0.18
BIU CEREAL SUB	23	0.27	0.23	0.21	0.17	0.11	0.12	0.05	0.04	0.02	0.04	0.10
BIU CEREAL SUB	24	0.08	0.15	0.10	0.21	0.23	0.19	0.03	0.04	0.03	0.06	0.13
BIU CEREAL SUB	25	0.15	0.13	0.04	0.04	0.03	0.02	0.02	0.01	0.01	0.01	0.06
BIU CEREAL SUB	27	0.15	0.17	0.12	0.14	0.07	0.07	0.03	0.01	0.01	0.06	0.08
BIU CEREAL SUB	28	0.07	0.17	0.11	0.12	0.07	0.08	0.10	0.10	0.10	0.38	0.11
BIU CEREAL SUB	32	0.18	0.10	0.04	0.03	0.03	0.03	0.03	0.02	0.02	0.01	0.05
BIU CEREAL SUB	38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00

Page No. 37
08/26/86

LISTING OF DECILES BY COMMODITY

COMMODITY	ROUND	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	AVERAGE
** STATE: BIU14												
BIU PULSE & PR	17	1.84	2.68	3.12	3.19	3.54	3.98	4.01	3.71	4.15	4.59	3.00
BIU PULSE & PR	18	1.28	1.68	1.96	2.48	2.80	2.93	2.63	3.17	3.04	3.09	2.18
BIU PULSE & PR	20	0.92	1.43	1.84	1.86	2.04	2.15	2.34	2.48	2.46	2.94	1.81
BIU PULSE & PR	21	0.86	1.04	1.15	1.36	1.50	1.67	1.94	2.12	2.26	2.75	1.47
BIU PULSE & PR	22	0.96	1.19	1.05	1.29	1.41	1.58	1.80	1.90	1.79	3.00	1.48
BIU PULSE & PR	23	0.87	1.41	1.62	1.60	1.80	2.03	2.10	1.98	1.84	3.10	1.72
BIU PULSE & PR	24	1.10	1.32	1.40	1.60	1.78	1.94	1.82	2.21	2.07	3.33	1.69
BIU PULSE & PR	25	1.05	1.40	1.74	1.91	1.94	1.91	2.42	2.33	1.95	3.39	1.85
BIU PULSE & PR	27	0.71	1.00	1.22	1.36	1.52	1.66	1.80	1.93	1.78	2.25	1.60
BIU PULSE & PR	28	0.54	0.70	0.85	0.91	1.04	1.17	1.25	1.35	1.38	1.44	1.12
BIU PULSE & PR	32	0.83	1.14	1.32	1.48	1.59	1.72	1.88	1.91	2.23	1.90	1.69
BIU PULSE & PR	38	0.60	0.76	0.87	0.99	1.10	1.21	1.37	1.43	1.65	1.86	1.24

Page No. 38
08/26/86

LISTING OF DECILES BY COMMODITY

COMMODITY	ROUND	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	AVERAGE
** STATE: BIU15												
BIU MILK & PR	17	0.49	0.89	1.04	1.52	2.29	3.09	5.00	10.32	15.31	21.40	5.49
BIU MILK & PR	18	0.97	0.82	0.92	2.04	2.30	2.97	4.79	6.95	9.06	12.92	3.78
BIU MILK & PR	20	0.48	0.57	0.84	1.11	1.22	1.73	2.63	3.85	6.38	11.65	2.75
BIU MILK & PR	21	0.15	0.59	1.03	1.31	1.30	2.40	2.78	4.54	5.99	10.58	3.00
BIU MILK & PR	22	0.27	0.35	0.58	0.95	1.86	2.09	3.54	4.88	6.97	11.68	3.38
BIU MILK & PR	23	0.24	0.48	0.98	1.49	2.25	2.53	3.41	4.83	5.99	10.12	3.23
BIU MILK & PR	24	0.38	0.61	0.91	1.50	1.67	2.86	4.06	4.94	7.20	11.56	3.28
BIU MILK & PR	25	0.14	0.47	0.93	1.02	1.34	2.22	2.83	4.57	7.06	12.30	3.54
BIU MILK & PR	27	0.31	0.47	0.81	0.89	1.63	1.78	2.96	4.40	6.23	10.30	3.33
BIU MILK & PR	28	0.10	0.26	0.84	0.89	1.27	1.43	1.95	2.12	3.63	5.10	2.00
BIU MILK & PR	32	0.25	0.62	1.03	1.51	2.43	3.62	3.95	4.96	5.80	11.06	3.70
BIU MILK & PR	38	0.30	0.60	0.99	1.50	1.67	2.69	3.05	4.41	5.61	8.70	3.25

Page No. 39
08/26/86

LISTING OF DECILES BY COMMODITY

COMMODITY	ROUND	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	AVERAGE
** STATE: BIU16												
BIU EDIBLE OIL	17	1.02	1.36	1.59	1.99	2.11	2.21	2.73	4.19	4.02	4.04	2.25
BIU EDIBLE OIL	20	0.66	1.06	1.36	1.56	1.71	1.84	2.25	2.75	2.80	4.36	1.85
BIU EDIBLE OIL	21	0.78	1.16	1.38	1.49	1.49	1.75	2.03	2.44	3.08	4.34	1.80
BIU EDIBLE OIL	22	0.67	1.06	1.27	1.49	1.51	1.69	1.78	2.38	2.79	4.68	1.85
BIU EDIBLE OIL	23	0.74	0.91	1.24	1.46	1.66	1.87	2.19	2.55	2.63	4.44	1.91
BIU EDIBLE OIL	24	0.78	1.10	1.26	1.48	1.65	2.05	2.31	2.80	3.01	4.84	1.92
BIU EDIBLE OIL	25	0.81	1.05	1.31	1.44	1.56	1.79	2.27	2.60	2.74	4.78	1.98
BIU EDIBLE OIL	27	0.88	1.18	1.40	1.55	1.78	1.94	2.34	2.89	3.20	4.72	2.32
BIU EDIBLE OIL	28	0.50	0.70	1.00	1.07	1.26	1.42	1.66	1.81	2.17	4.00	1.60
BIU EDIBLE OIL	32	0.86	1.17	1.41	1.62	1.89	2.25	2.46	2.79	3.26	3.65	2.29
BIU EDIBLE OIL	38	0.76	1.04	1.29	1.47	1.64	1.85	2.10	2.35	2.89	3.63	2.02

Page No. 40
08/26/86

LISTING OF DECILES BY COMMODITY

COMMODITY	ROUND	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	AVERAGE
** STATE: BIU17												
BIU MEAT,EGG,F	17	0.39	0.87	1.01	1.36	1.47	1.89	2.73	5.06	5.30	4.94	2.26
BIU MEAT,EGG,F	20	0.26	0.26	0.57	0.73	0.80	1.00	1.32	1.87	2.33	4.45	1.26
BIU MEAT,EGG,F	21	0.25	0.47	0.49	0.49	0.75	0.80	0.93	1.13	2.10	3.87	1.09
BIU MEAT,EGG,F	22	0.31	0.48	0.63	0.84	1.14	1.29	1.47	1.45	1.95	3.27	1.26
BIU MEAT,EGG,F	23	0.41	0.64	0.90	1.10	1.19	1.34	1.68	2.45	2.72	4.59	1.65
BIU MEAT,EGG,F	24	0.33	0.60	0.83	1.03	1.14	1.67	2.11	2.56	3.04	4.88	1.65
BIU MEAT,EGG,F	25	0.51	0.83	0.77	0.85	0.95	1.26	1.60	1.98	2.82	4.91	1.68
BIU MEAT,EGG,F	27	0.35	0.55	0.79	0.87	1.06	1.16	1.47	1.91	2.34	4.65	1.58
BIU MEAT,EGG,F	28	0.32	0.43	0.55	0.59	0.74	0.84	1.31	1.43	2.32	2.87	1.28
BIU MEAT,EGG,F	32	0.33	0.56	0.77	0.91	1.11	1.35	1.48	1.82	2.13	4.47	1.55
BIU MEAT,EGG,F	38	0.25	0.51	0.65	0.79	0.88	1.15	1.30	1.43	2.03	3.41	1.35

Page No. 41
08/26/86

LISTING OF DECILES BY COMMODITY

COMMODITY		ROUND	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	AVERAGE
** STATE: BIU18													
BIU	VEG,FR,NUT	20	0.95	1.31	1.57	1.80	1.97	2.23	2.66	3.28	3.89	6.34	2.34
BIU	VEG,FR,NUT	21	0.92	1.31	1.60	1.72	1.83	2.15	2.49	2.92	3.64	5.67	2.24
BIU	VEG,FR,NUT	22	0.88	1.29	1.71	1.84	2.01	2.26	2.43	2.95	3.96	6.63	2.53
BIU	VEG,FR,NUT	23	0.97	1.12	1.52	1.62	1.88	2.12	2.54	2.94	3.28	5.53	2.29
BIU	VEG,FR,NUT	24	1.28	1.90	2.05	2.10	2.33	2.69	3.00	3.65	4.46	7.17	2.82
BIU	VEG,FR,NUT	25	1.09	1.52	1.82	2.00	2.15	2.49	3.16	3.63	4.25	7.41	2.90
BIU	VEG,FR,NUT	27	1.27	1.59	1.87	2.07	2.34	2.55	3.02	3.77	4.44	7.72	3.18
BIU	VEG,FR,NUT	28	0.84	1.05	1.28	1.36	1.59	1.79	2.07	2.25	2.67	3.69	1.95
BIU	VEG,FR,NUT	32	1.22	1.59	1.85	2.10	2.43	2.80	3.06	3.52	4.11	5.60	2.74
BIU	VEG,FR,NUT	38	1.38	1.73	1.98	2.21	2.47	2.73	3.09	3.42	4.23	5.48	3.04

Page No. 42
08/26/86

LISTING OF DECILES BY COMMODITY

COMMODITY		ROUND	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	AVERAGE
** STATE: BIU21													
BIU	SUGAR	17	0.31	0.53	0.61	0.86	0.87	1.05	1.31	1.46	1.79	3.05	1.05
BIU	SUGAR	20	0.15	0.28	0.38	0.46	0.50	0.67	0.96	1.21	1.10	1.66	0.69
BIU	SUGAR	21	0.20	0.40	0.50	0.47	0.71	0.88	1.02	0.98	1.22	2.25	0.81
BIU	SUGAR	22	0.26	0.39	0.52	0.61	0.77	0.86	1.03	1.20	1.36	2.29	0.90
BIU	SUGAR	23	0.46	0.52	0.56	0.67	0.89	1.00	1.36	1.56	1.67	2.83	1.14
BIU	SUGAR	24	0.29	0.41	0.52	0.67	0.74	0.92	1.02	1.24	1.39	2.23	0.85
BIU	SUGAR	25	0.25	0.32	0.46	0.51	0.61	0.79	1.00	1.20	1.32	2.30	0.87
BIU	SUGAR	27	0.21	0.26	0.34	0.37	0.45	0.49	0.60	0.79	1.03	1.53	0.65
BIU	SUGAR	28	0.23	0.27	0.34	0.36	0.41	0.46	0.55	0.60	0.74	1.58	0.55
BIU	SUGAR	32	0.29	0.35	0.44	0.54	0.64	0.75	0.81	0.93	1.08	1.37	0.77
BIU	SUGAR	38	0.25	0.39	0.52	0.60	0.67	0.76	0.86	0.97	1.15	1.56	0.82

Page No. 43
08/26/86

LISTING OF DECILES BY COMMODITY

COMMODITY		ROUND	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	AVERAGE
** STATE: BIU22													
BIU	SALT,SPICE	17	0.02	0.09	0.10	0.12	0.14	0.14	0.14	0.11	0.12	0.17	0.12
BIU	SALT,SPICE	20	0.32	0.45	0.56	0.63	0.69	0.77	0.86	0.92	0.99	1.40	0.69
BIU	SALT,SPICE	21	0.38	0.49	0.57	0.65	0.70	0.72	0.84	0.92	1.02	1.31	0.68
BIU	SALT,SPICE	22	0.33	0.44	0.51	0.55	0.58	0.65	0.66	0.67	0.71	1.19	0.61
BIU	SALT,SPICE	23	0.43	0.57	0.64	0.70	0.74	0.84	0.86	0.88	0.89	1.50	0.76
BIU	SALT,SPICE	24	0.48	0.62	0.69	0.75	0.83	0.86	0.84	1.02	1.09	1.75	0.81
BIU	SALT,SPICE	25	0.46	0.59	0.70	0.77	0.78	0.82	1.04	1.06	1.04	1.82	0.86
BIU	SALT,SPICE	27	0.47	0.59	0.63	0.70	0.71	0.77	0.80	0.87	0.90	1.21	0.80
BIU	SALT,SPICE	28	0.35	0.40	0.44	0.46	0.53	0.59	0.65	0.70	0.71	1.00	0.60
BIU	SALT,SPICE	32	0.47	0.59	0.68	0.74	0.79	0.86	0.93	0.98	1.15	1.31	0.90
BIU	SALT,SPICE	38	0.38	0.49	0.53	0.54	0.60	0.64	0.73	0.76	0.90	1.11	0.70

Page No. 44
08/26/86

LISTING OF DECILES BY COMMODITY

COMMODITY		ROUND	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	AVERAGE
** STATE: BIU25													
BIU	BEV,REF.	20	0.41	0.44	0.58	1.33	1.45	1.61	1.79	3.23	7.11	16.57	3.07
BIU	BEV,REF.	21	0.76	0.78	0.52	0.87	1.08	1.48	1.72	2.68	5.10	16.22	3.44
BIU	BEV,REF.	22	0.35	0.67	1.08	1.17	1.18	1.33	2.06	3.09	6.76	11.34	2.99
BIU	BEV,REF.	23	0.41	0.66	0.57	1.06	1.45	1.64	2.14	3.61	6.30	10.64	2.92
BIU	BEV,REF.	24	0.45	0.66	0.91	1.32	1.47	1.78	2.17	2.64	6.47	10.39	2.76
BIU	BEV,REF.	25	0.63	0.73	0.84	0.92	1.35	1.59	2.02	2.55	6.29	10.95	3.10
BIU	BEV,REF.	27	0.59	0.61	0.82	0.91	1.06	1.16	1.58	2.71	5.01	6.14	2.71
BIU	BEV,REF.	28	0.33	0.55	0.59	0.63	0.67	0.75	1.12	1.21	2.45	7.45	1.53
BIU	BEV,REF.	32	0.41	0.55	0.64	0.76	0.99	1.26	1.39	2.03	2.37	10.48	2.10
BIU	BEV,REF.	38	0.56	0.69	0.80	1.00	1.11	1.49	1.68	2.27	3.09	7.41	2.18

Page No. 45
08/26/86

LISTING OF DECILES BY COMMODITY

COMMODITY	ROUND	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	AVERAGE
** STATE: BIU26												
BIU OTHER FOOD	17	3.65	5.73	6.67	7.10	7.98	9.92	10.89	13.38	19.95	33.98	10.50
BIU OTHER FOOD	18	4.55	6.13	7.00	8.05	9.10	10.29	14.82	16.84	22.37	37.03	12.15

Page No. 46
08/26/86

LISTING OF DECILES BY COMMODITY

COMMODITY	ROUND	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	AVERAGE
** STATE: BIU27												
BIU TOTAL FOOD	17	21.35	26.77	31.17	35.37	38.57	41.69	46.94	54.16	67.35	92.47	40.34
BIU TOTAL FOOD	18	19.25	25.27	28.65	31.95	36.06	36.74	39.94	45.72	52.49	71.81	34.31
BIU TOTAL FOOD	20	16.49	21.55	25.60	29.00	31.77	34.28	36.01	39.87	46.07	68.90	31.32
BIU TOTAL FOOD	21	14.53	20.37	24.31	27.04	28.43	31.18	36.06	39.81	46.97	71.83	31.11
BIU TOTAL FOOD	22	13.19	18.82	21.91	24.51	26.54	29.83	32.67	35.00	39.70	66.56	29.85
BIU TOTAL FOOD	23	13.40	21.35	24.36	26.16	28.12	31.66	33.66	36.58	38.38	64.86	30.50
BIU TOTAL FOOD	24	16.98	22.18	24.51	27.05	30.07	32.67	33.57	40.79	44.31	71.14	31.40
BIU TOTAL FOOD	25	16.21	21.48	24.18	26.59	27.25	28.91	36.73	38.31	42.13	73.39	32.29
BIU TOTAL FOOD	27	16.33	20.81	23.73	26.30	28.68	31.20	33.34	37.34	40.68	54.31	32.97
BIU TOTAL FOOD	28	13.56	17.34	19.67	20.98	23.00	25.89	28.24	30.69	33.34	43.12	26.59
BIU TOTAL FOOD	32	15.22	19.47	22.08	24.18	26.45	28.94	31.57	33.98	39.75	52.64	31.05
BIU TOTAL FOOD	38	15.29	19.26	21.60	22.89	25.52	27.99	31.67	33.40	39.02	50.21	30.13

Page No. 47
08/26/86

LISTING OF DECILES BY COMMODITY

COMMODITY	ROUND	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	AVERAGE
** STATE: BIU30												
BIU TOTAL EXP.	17	25.79	34.16	39.78	45.98	51.18	58.92	68.52	85.21	111.41	245.90	70.72
BIU TOTAL EXP.	18	23.93	31.00	35.28	40.85	46.13	49.51	60.67	71.38	90.43	135.23	51.51
BIU TOTAL EXP.	20	20.52	26.09	31.24	35.91	39.35	44.36	49.58	56.82	69.12	119.31	44.53
BIU TOTAL EXP.	21	17.88	24.64	29.80	33.42	36.59	41.23	47.71	53.51	67.68	117.66	43.97
BIU TOTAL EXP.	22	16.90	24.30	28.29	31.91	35.32	39.69	45.18	51.68	68.33	114.56	44.59
BIU TOTAL EXP.	23	19.01	25.92	30.27	33.60	38.02	42.82	47.69	54.41	66.49	112.36	45.72
BIU TOTAL EXP.	24	20.43	26.95	30.58	34.82	38.71	43.87	48.36	58.75	73.31	117.71	45.40
BIU TOTAL EXP.	25	19.50	26.26	29.90	32.87	32.38	36.52	46.38	54.70	69.41	120.92	47.24
BIU TOTAL EXP.	27	19.67	25.26	29.09	32.24	36.29	39.48	44.71	52.78	63.06	107.42	47.06
BIU TOTAL EXP.	28	15.60	20.11	23.11	24.65	27.25	30.67	34.99	38.03	44.29	69.35	33.75
BIU TOTAL EXP.	32	18.04	23.36	26.96	30.06	33.70	38.02	41.48	46.93	54.89	94.28	42.51
BIU TOTAL EXP.	38	18.37	23.37	26.50	28.88	32.20	36.56	41.36	45.57	56.13	90.41	42.29

Page No. 48
08/26/86

LISTING OF DECILES BY COMMODITY

COMMODITY	ROUND	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	AVERAGE
** STATE: BIU31												
BIU NON FOOD	17	4.44	7.39	8.60	10.61	12.60	17.23	21.58	31.06	44.06	153.43	30.38
BIU NON FOOD	18	4.69	5.73	6.62	8.90	10.05	12.77	20.72	25.66	37.94	63.42	17.19
BIU NON FOOD	20	4.02	4.53	5.64	6.92	7.58	10.08	13.57	16.95	23.05	50.41	13.21
BIU NON FOOD	21	3.35	4.27	5.49	6.38	8.16	10.05	11.62	13.70	20.71	45.83	12.86
BIU NON FOOD	22	3.71	5.48	6.38	7.39	8.77	9.86	12.51	16.69	28.63	48.00	14.74
BIU NON FOOD	23	3.62	4.58	5.91	7.44	9.90	11.15	14.03	17.82	28.11	47.50	15.22
BIU NON FOOD	24	3.45	4.77	6.07	7.77	8.64	11.20	14.78	17.96	29.00	46.57	14.00
BIU NON FOOD	25	3.29	4.76	5.71	6.28	5.13	7.60	9.66	16.39	27.28	47.53	14.95
BIU NON FOOD	27	3.34	4.45	5.36	5.94	7.61	8.28	11.37	15.44	22.38	53.11	14.09
BIU NON FOOD	28	2.04	2.77	3.44	3.67	4.25	4.78	6.75	7.34	10.96	26.24	7.15
BIU NON FOOD	32	2.82	3.89	4.88	5.86	7.25	9.08	9.91	12.95	15.14	41.64	11.46
BIU NON FOOD	38	3.09	4.11	4.90	5.99	6.68	8.57	9.69	12.17	17.10	40.21	12.17

PER CAPITA ENERGY INTAKE (CALORIES PER DAY) BY DECILES

BIR	17	1368	1955	2259	2516	2707	3005	3257	3192	3578	3106
BIR	18	1190	1695	1960	2153	2326	2566	2655	2807	2893	2683
BIR	20	1306	1878	2162	2353	2564	2758	3053	3268	3512	4519
BIR	21	860	1303	1701	1932	2163	2366	2722	2912	3302	4168
BIR	22	907	1299	1526	1662	1855	2105	2287	2444	2795	3627
BIR	23	928	1360	1573	1685	1818	1914	2064	2319	2481	2855
BIR	24	1120	1571	1756	1920	2091	2226	2416	2598	2824	3639
BIR	25	1007	1392	1563	1708	1845	1969	2183	2314	2532	2825
BIR	27	996	1303	1464	1627	1784	1905	2049	2257	2541	2681
BIR	28	884	1191	1329	1468	1600	1775	1883	2121	2367	2073
BIR	32	989	1346	1518	1687	1831	2010	2146	2296	2533	2567
BIR	38	980	1239	1407	1549	1712	1850	1953	2169	2441	2306

BIU	17	1610	1896	2208	2473	2648	2699	2883	2738	3050	3709
BIU	18	1224	1619	1831	1967	2221	2139	1927	2136	2130	2328
BIU	20	1211	1586	1841	2017	2210	2336	2343	236[illegible]	2392	2888
BIU	21	1013	1411	1704	1875	1940	2050	2372	2470	2662	3347
BIU	22	932	1299	1422	1576	1662	1867	1953	1970	1898	3182
BIU	23	1104	1528	1702	1751	1806	2034	2044	1990	1808	3354
BIU	24	1234	1572	1697	1816	2019	2072	1993	2421	2179	3499
BIU	25	1190	1554	1718	1889	1962	1870	2375	2286	2022	3525
BIU	27	1117	1424	1583	1754	1857	2020	2029	2078	1960	2313
BIU	28	983	1241	1362	1453	1557	1753	1817	1976	1886	1953
BIU	32	1125	1402	1549	1655	1728	1789	1951	1968	2301	2032
BIU	38	1130	1384	1516	1542	1720	1792	2028	1997	2201	2323

PER CAPITA INTAKE (PROTEIN PER DAY) BY DECILES

BIR	17	42	61	71	79	85	94	102	99	110	95
BIR	18	38	54	63	69	74	82	85	90	93	87
BIR	20	41	59	67	73	80	86	95	102	110	137
BIR	21	27	41	53	60	67	74	85	91	103	129
BIR	22	28	41	48	52	58	66	72	76	87	113
BIR	23	29	43	49	53	57	60	64	72	76	88
BIR	24	35	49	55	60	65	70	76	81	83	113
BIR	25	32	44	49	53	58	61	68	72	79	88
BIR	27	31	41	46	51	55	59	64	71	79	80
BIR	28	28	37	42	46	50	55	59	66	74	66
BIR	32	31	42	47	52	57	62	66	71	79	81
BIR	38	30	38	44	48	53	57	60	68	76	66

BIU	17	49	58	67	75	81	82	83	84	95	114
BIU	18	39	52	59	63	71	69	63	70	70	77
BIU	20	38	49	56	62	68	71	71	72	73	89
BIU	21	31	43	52	57	59	62	72	75	81	101
BIU	22	28	39	43	48	50	57	59	59	57	95
BIU	23	33	47	52	53	55	62	61	59	54	91
BIU	24	35	48	52	55	62	63	61	74	66	107
BIU	25	37	45	53	58	57	57	72	69	62	108
BIU	27	34	44	45	54	57	62	62	63	59	70
BIU	28	30	38	42	45	48	54	56	61	58	56
BIU	32	34	43	47	50	52	54	59	59	69	63
BIU	38	35	42	46	47	52	54	62	60	67	70

PER CAPITA ENERGY INTAKE (% CEREAL CALORIES TO TOTAL CALORIES PER DAY) BY DECILES

BIR	17	84	87	90	90	90	88	88	87	85	77
BIR	18	99	96	98	92	92	92	96	95	91	87
BIR	20	95	96	95	94	92	91	91	90	90	83
BIR	21	82	87	92	90	89	91	91	91	90	85
BIR	22	89	94	95	96	96	96	95	93	89	87
BIR	23	90	91	89	89	89	89	88	88	86	79
BIR	24	91	90	90	91	90	89	89	87	85	82
BIR	25	94	95	93	94	94	92	92	90	88	80
BIR	27	93	94	95	95	95	95	93	93	91	65
BIR	28	94	97	96	97	97	97	96	96	94	85
BIR	32	98	97	96	96	94	94	93	91	89	79
BIR	38	100	100	100	100	100	99	96	96	94	80

BIU	17	90	87	87	86	85	82	80	69	67	65
BIU	18	98	98	98	95	95	93	89	85	84	81
BIU	20	93	91	90	88	88	87	85	81	77	68
BIU	21	89	89	91	91	90	87	87	83	81	75
BIU	22	89	91	92	90	87	87	85	80	72	72
BIU	23	82	88	87	86	83	83	78	74	66	68
BIU	24	91	90	89	86	86	82	79	79	71	71
BIU	25	91	91	89	88	87	83	83	78	70	70
BIU	27	94	93	91	91	89	89	84	75	71	58
BIU	28	99	99	96	96	94	94	91	91	83	67
BIU	32	94	93	91	88	84	80	80	76	76	58
BIU	38	99	97	95	91	91	88	88	82	79	69

PER CAPITA ENERGY INTAKE (% CEREAL PROTEIN TO TOTAL PROTEIN PER DAY) BY DECILES

BIR	17	77	79	82	82	82	80	80	79	78	72
BIR	18	88	87	87	81	81	81	85	84	80	76
BIR	20	86	87	87	86	84	83	83	82	82	78
BIR	21	75	80	83	82	81	83	83	83	82	78
BIR	22	81	85	86	87	87	87	87	85	81	80
BIR	23	82	82	81	81	81	81	80	80	79	72
BIR	24	82	81	81	83	82	81	81	79	77	75
BIR	25	85	86	84	85	85	84	84	83	80	73
BIR	27	85	86	87	87	86	86	85	85	83	62
BIR	28	86	88	89	88	89	89	87	87	86	79
BIR	32	90	89	88	88	87	87	85	84	82	72
BIR	38	95	94	93	92	92	91	88	88	86	76

BIU	17	84	81	81	81	80	77	74	65	62	60
BIU	18	87	87	87	84	84	82	78	74	73	69
BIU	20	85	85	84	81	81	81	80	76	71	63
BIU	21	82	83	85	85	84	81	81	78	76	71
BIU	22	83	85	87	84	82	82	79	75	68	68
BIU	23	83	81	80	80	78	78	75	70	65	65
BIU	24	84	83	83	80	80	77	74	74	66	66
BIU	25	84	83	82	82	81	78	78	73	65	65
BIU	27	87	86	85	85	83	83	78	73	67	55
BIU	28	91	91	89	89	87	87	84	84	77	66
BIU	32	87	86	85	82	79	75	75	71	71	53
BIU	38	92	90	89	86	86	82	82	77	74	65

PER CAPITA ENERGY INTAKE (% PULSE PROTEIN TO CEREAL PROTEIN PER DAY) BY DECILES

BIR	17	23	21	19	19	21	22	22	24	25	40
BIR	18	14	17	18	20	22	22	22	23	29	31
BIR	20	8	9	11	11	14	16	16	17	18	22
BIR	21	10	12	10	12	12	12	12	14	15	18
BIR	22	7	8	9	10	11	11	12	14	18	18
BIR	23	10	11	13	15	15	16	16	16	21	24
BIR	24	12	15	15	14	15	17	16	19	21	22
BIR	25	9	9	11	11	11	13	14	15	18	25
BIR	27	8	8	9	10	11	11	13	13	15	37
BIR	28	6	7	8	9	9	9	11	11	13	15
BIR	32	8	10	12	12	13	13	14	15	16	18
BIR	38	6	7	7	8	8	9	10	10	11	17

BIU	17	22	29	29	26	27	31	31	34	35	33
BIU	18	19	18	19	23	23	26	27	30	30	29
BIU	20	14	17	19	18	18	19	21	23	23	26
BIU	21	17	15	13	14	15	16	17	18	18	19
BIU	22	20	18	14	16	17	17	19	21	23	23
BIU	23	16	18	19	19	21	21	23	24	26	26
BIU	24	17	16	16	18	18	20	20	20	24	24
BIU	25	17	17	20	20	21	22	21	23	24	24
BIU	27	12	13	15	15	16	16	19	21	22	29
BIU	28	10	10	11	11	12	12	13	13	15	19
BIU	32	14	15	16	16	19	21	21	22	22	28
BIU	38	9	10	11	12	12	14	14	15	17	20

PER CAPITA ENERGY INTAKE (% SUGAR CALORIES TO TOTAL CALORIES PER DAY) BY DECILES

BIR 17	1	1	1	1	1	1	1	2	2	2
BIR 18	0	0	0	0	0	0	0	0	0	0
BIR 20	1	1	1	1	1	1	1	1	1	3
BIR 21	1	1	1	1	1	1	1	1	1	2
BIR 22	1	1	1	1	1	1	1	2	3	3
BIR 23	1	1	1	1	1	1	1	1	3	4
BIR 24	1	1	1	1	1	1	1	2	2	3
BIR 25	1	1	1	1	1	1	1	2	2	3
BIR 27	1	1	1	1	1	1	1	1	1	5
BIR 28	1	1	1	1	1	1	1	1	1	2
BIR 32	1	1	1	1	1	1	1	1	2	3
BIR 38	1	1	1	1	1	1	2	2	2	4

BIU 17	1	2	2	2	2	3	3	4	4	5
BIU 18	0	0	0	0	0	0	0	0	0	0
BIU 20	1	1	1	2	2	2	3	3	3	4
BIU 21	1	2	2	2	2	3	3	3	3	5
BIU 22	2	2	2	3	3	3	4	4	5	5
BIU 23	3	2	2	3	3	3	4	5	6	6
BIU 24	2	2	2	2	2	3	3	3	4	4
BIU 25	1	1	2	2	2	3	3	4	4	4
BIU 27	1	1	1	1	2	2	2	3	4	4
BIU 28	2	1	2	2	2	2	2	2	3	5
BIU 32	2	2	2	2	2	3	3	3	3	5
BIU 38	1	2	2	3	3	3	3	3	4	5

PER CAPITA ENERGY INTAKE (% OIL CALORIES TO TOTAL CALORIES PER DAY) BY DECILES

BIR 17	2	2	2	2	3	3	3	3	3	4
BIR 18	0	0	0	0	0	0	0	0	0	0
BIR 20	2	2	2	2	3	3	3	2	3	5
BIR 21	2	3	2	2	2	2	2	3	3	4
BIR 22	2	2	2	3	3	3	3	3	3	3
BIR 23	2	2	2	3	3	3	3	3	3	4
BIR 24	2	2	2	2	2	3	3	3	3	4
BIR 25	2	2	2	3	3	3	3	3	3	4
BIR 27	3	3	3	3	3	3	4	3	4	7
BIR 28	2	2	3	3	3	3	3	3	3	4
BIR 32	3	3	4	4	4	4	4	4	4	5
BIR 38	3	3	3	3	3	4	4	4	4	7

BIU 17	4	4	4	5	4	5	5	9	7	6
BIU 18	0	0	0	0	0	0	0	0	0	0
BIU 20	3	4	4	4	4	4	5	6	7	8
BIU 21	4	5	5	4	4	5	5	6	7	7
BIU 22	4	5	5	5	5	5	5	7	9	8
BIU 23	4	3	4	5	5	5	6	7	8	8
BIU 24	4	4	4	5	5	6	7	7	8	8
BIU 25	4	4	4	4	5	5	5	6	8	8
BIU 27	4	5	5	5	5	5	6	8	9	11
BIU 28	3	3	4	4	5	5	5	5	6	12
BIU 32	4	5	5	6	6	7	7	8	8	10
BIU 38	4	4	5	5	5	6	6	7	7	9

Poverty line= 30

BIR 17	14.94	23.53	0.1481	0.0496
BIR 18	18.67	23.17	0.1335	0.0618
BIR 20	19.50	24.31	0.1261	0.0569
BIR 21	32.30	21.13	0.1610	0.1321
BIR 22	36.29	22.42	0.1277	0.1263
BIR 23	42.28	22.52	0.1349	0.1483
BIR 24	31.70	23.43	0.1137	0.0975
BIR 25	49.12	22.95	0.1213	0.1609
BIR 27	44.80	23.06	0.1204	0.1451
BIR 28	61.61	21.46	0.1296	0.2325
BIR 32	52.11	23.27	0.1241	0.1671
BIR 38	52.98	22.16	0.1193	0.1851
BIU 17	8.23	25.22	0.1357	0.0246
BIU 18	12.15	25.20	0.1068	0.0304
BIU 20	21.65	23.92	0.0941	0.0602
BIU 21	25.86	23.08	0.1230	0.0841
BIU 22	28.92	23.06	0.1275	0.0952
BIU 23	24.05	23.67	0.1111	0.0718
BIU 24	24.51	24.74	0.0949	0.0622
BIU 25	25.30	24.22	0.1032	0.0698
BIU 27	27.34	24.15	0.0957	0.0744
BIU 28	57.06	23.26	0.1186	0.1606
BIU 32	33.92	23.74	0.1090	0.1000
BIU 38	36.78	23.86	0.0946	0.1029

Poverty line= 40

BIR 17	36.18	30.67	0.1351	0.1266
BIR 18	44.73	30.36	0.1422	0.1561
BIR 20	39.82	29.70	0.1255	0.1396
BIR 21	59.42	27.06	0.1690	0.2601
BIR 22	62.71	27.43	0.1516	0.2623
BIR 23	77.10	27.74	0.1506	0.3165
BIR 24	58.67	28.49	0.1331	0.2238
BIR 25	76.13	27.02	0.1481	0.3233
BIR 27	71.51	27.15	0.1435	0.2994
BIR 28	85.61	24.63	0.1600	0.4036
BIR 32	73.52	26.98	0.1506	0.3140
BIR 38	81.79	26.64	0.1587	0.3596
BIU 17	26.13	32.46	0.1188	0.0749
BIU 18	33.96	31.35	0.1077	0.1021
BIU 20	44.62	29.63	0.1289	0.1563
BIU 21	54.35	29.47	0.1408	0.1994
BIU 22	55.08	28.58	0.1451	0.2144
BIU 23	50.23	29.45	0.1303	0.1806
BIU 24	47.07	30.01	0.1288	0.1623
BIU 25	61.62	29.55	0.1364	0.2049
BIU 27	53.59	29.51	0.1281	0.1920
BIU 28	75.58	26.30	0.1589	0.3339
BIU 32	58.24	28.05	0.1326	0.2281
BIU 38	61.99	28.17	0.1308	0.2404

Poverty line= 50

BIR 17	57.83	35.30	0.1452	0.2293
BIR 18	66.29	35.07	0.1523	0.2687
BIR 20	66.59	35.67	0.1470	0.2607
BIR 21	77.19	31.32	0.1934	0.3818
BIR 22	78.39	30.68	0.1755	0.3847
BIR 23	82.65	28.61	0.1555	0.4273
BIR 24	78.67	32.30	0.1577	0.3588
BIR 25	89.09	29.41	0.1698	0.4559
BIR 27	86.50	30.01	0.1687	0.4335
BIR 28	93.32	26.57	0.1344	0.5287
BIR 32	89.65	29.95	0.1772	0.4495
BIR 38	90.36	28.33	0.1763	0.4918
BIU 17	41.59	37.11	0.1287	0.1470
BIU 18	53.77	35.42	0.1315	0.1976
BIU 20	65.37	34.21	0.1490	0.2731
BIU 21	68.73	32.79	0.1618	0.3094
BIU 22	71.17	32.12	0.1661	0.3304
BIU 23	67.66	33.51	0.1556	0.2937
BIU 24	65.65	34.01	0.1471	0.2757
BIU 25	72.17	32.40	0.1399	0.3194
BIU 27	73.64	33.67	0.1581	0.3198
BIU 28	90.65	29.01	0.1756	0.4729
BIU 32	76.64	32.13	0.1607	0.3623
BIU 36	81.35	32.08	0.1626	0.3765

Per Capita Total Expenditure by Deciles

BIR												Gini's coeff.
17	20.48	29.56	34.71	38.65	43.07	49.18	53.31	58.07	67.85	99.37	42.86	0.2316
18	19.09	27.60	32.49	36.61	40.87	45.11	48.59	53.52	63.50	99.56	41.19	0.2400
20	20.03	28.65	33.01	36.90	40.87	44.52	49.29	54.76	62.96	106.64	44.72	0.2448
21	13.75	20.92	26.61	30.20	34.10	37.54	43.20	47.83	56.31	82.37	36.74	0.2581
22	15.40	22.11	25.96	28.87	32.47	36.84	41.38	47.25	57.94	79.59	50.09	0.2519
23	14.45	21.07	25.09	27.63	29.80	32.10	35.15	39.50	51.49	76.31	34.39	0.2458
24	17.28	24.32	27.59	30.65	34.06	38.00	41.24	47.00	55.62	84.78	36.32	0.2355
25	14.97	20.95	23.94	26.34	28.62	31.65	35.10	38.85	45.00	63.34	34.53	0.2152
27	16.06	21.16	24.11	27.09	30.37	32.44	36.53	40.75	46.07	76.56	35.74	0.2397
28	13.36	17.97	20.45	22.91	24.97	27.69	30.32	34.14	40.41	65.29	30.35	0.2412
32	15.04	20.66	23.95	26.60	29.35	32.45	35.96	40.25	47.14	68.13	34.15	0.2383
38	15.04	19.25	22.10	24.81	27.43	30.33	33.50	37.54	44.05	64.97	32.68	0.2285
BIU												
17	25.79	34.16	39.78	45.98	51.18	58.92	68.52	85.21	111.41	245.90	70.72	0.3683
18	23.93	31.00	35.28	40.85	46.13	49.51	60.67	71.38	90.43	135.23	51.51	0.2842
20	20.52	26.09	31.24	35.91	39.30	44.36	49.58	56.82	69.12	119.31	44.53	0.2771
21	17.88	24.64	29.80	33.42	36.59	41.23	47.71	53.51	67.68	117.66	43.97	0.2904
22	16.90	24.30	28.29	31.91	35.32	39.69	45.18	51.68	68.33	114.56	44.59	0.2956
23	19.01	25.92	30.27	33.60	38.02	42.82	47.69	54.41	66.49	112.36	45.72	0.2745
24	20.43	26.95	30.58	34.82	38.71	43.87	48.36	58.75	73.31	117.71	45.40	0.2810
25	19.50	26.26	29.90	32.97	32.38	36.52	46.38	54.70	69.41	120.92	47.24	0.2951
27	19.67	25.26	29.09	32.24	36.29	39.48	44.71	52.78	63.06	107.42	47.06	0.2646
28	15.60	20.11	23.11	24.65	27.25	30.67	34.99	38.03	44.29	69.35	33.75	0.2323
32	18.04	23.36	26.96	30.06	33.70	38.02	41.48	46.93	54.89	94.28	42.51	0.2564
38	18.37	23.37	26.50	29.88	32.20	36.56	41.38	45.57	56.13	90.41	42.29	0.2541

Page No.
08/26/86

PER CAPITA CONSUMER EXPENDITURE (Rs.) BY DECILES
lower deciles: Average of 1,2 &3
Upper deciles: Average of 7,8 & 9

	ROUNDS	Lower Decile	Upper decile
** BIR 1			
FOODGRAINS	17	20.08	34.79
FOODGRAINS	18	18.07	30.42
FOODGRAINS	20	19.13	34.14
FOODGRAINS	21	13.71	31.02
FOODGRAINS	22	13.25	25.30
FOODGRAINS	23	13.74	23.51
FOODGRAINS	24	15.79	26.47
FOODGRAINS	25	14.07	23.97
FOODGRAINS	27	13.26	23.38
FOODGRAINS	28	12.09	21.96
FOODGRAINS	32	13.41	23.19
FOODGRAINS	38	12.63	21.91
** BIR 2			
CEREALS	17	16.46	29.23
CEREALS	18	16.04	26.44
CEREALS	20	17.16	30.03
CEREALS	21	11.48	27.30
CEREALS	22	11.71	23.39
CEREALS	23	11.70	20.23
CEREALS	24	13.49	22.98
CEREALS	25	12.54	21.33
CEREALS	27	11.96	21.40
CEREALS	28	11.12	20.44
CEREALS	32	12.59	21.43
CEREALS	38	12.53	21.21
** BIR 3			
RICE & PR	17	12.10	21.96
RICE & PR	27	4.95	13.38
RICE & PR	28	6.20	13.32
RICE & PR	32	7.14	14.17
** BIR 4			
WHEAT & PR	17	1.96	5.24
WHEAT & PR	27	2.84	5.65
WHEAT & PR	28	2.10	5.25
WHEAT & PR	32	3.25	5.51
** BIR 5			
JAWAR & PR	17	0.04	0.07
JAWAR & PR	27	0.07	0.02
JAWAR & PR	28	0.01	0.01
JAWAR & PR	32	0.04	0.02
** BIR 6			
BAJRA & PR	17	0.07	0.01
BAJRA & PR	27	0.13	0.02
BAJRA & PR	28	0.04	0.03

Page No. 2
08/26/86

PER CAPITA CONSUMER EXPENDITURE (Rs.) BY DECILES
lower deciles: Average of 1,2 &3
Upper deciles: Average of 7,8 & 9

	ROUNDS	Lower Decile	Upper decile
** BIR 7			
MAIZE & PR	17	0.86	1.20
MAIZE & PR	27	2.98	1.90
MAIZE & PR	28	1.75	1.48
MAIZE & PR	32	1.43	1.20
** BIR 8			
RAGI & PR	17	0.41	0.31
RAGI & PR	27	0.53	0.43
RAGI & PR	28	0.42	0.16
RAGI & PR	32	0.44	0.32
** BIR 9			
BARLEY &PR	17	0.88	0.[illegible]1
BARLEY &PR	27	0.22	0.17
BARLEY &PR	28	0.10	0.13
BARLEY &PR	32	0.08	0.09
** BIR10			
SM. MILLET	17	0.08	0.03
SM. MILLET	27	0.17	0.09
SM. MILLET	28	0.08	0.05
SM. MILLET	32	0.07	0.04
** BIR11			
GRAM	17	0.82	1.10
GRAM	20	0.34	0.49
GRAM	21	0.08	0.36
GRAM	22	0.14	0.21
GRAM	23	0.22	0.38
GRAM	24	0.06	0.30
GRAM	25	0.08	0.29
GRAM	27	0.15	0.28
GRAM	28	0.04	0.24
GRAM	32	0.12	0.32
GRAM	38	0.04	0.16
** BIR13			
CEREAL SUB	17	0.65	0.20
CEREAL SUB	18	0.43	0.23
CEREAL SUB	20	0.91	1.00
CEREAL SUB	21	1.59	1.42
CEREAL SUB	22	1.50	0.75
CEREAL SUB	23	0.98	0.75
CEREAL SUB	24	1.14	0.69
CEREAL SUB	25	0.73	0.44
CEREAL SUB	27	0.83	0.48
CEREAL SUB	28	0.97	0.57
CEREAL SUB	32	0.46	0.26

Page No. 3
08/26/86

PER CAPITA CONSUMER EXPENDITURE (Rs.) BY DECILES
lower deciles: Average of 1,2 &3
Upper deciles: Average of 7,8 & 9

	ROUNDS	Lower Decile	Upper decile
** BIR14			
PULSE & PR	17	1.89	3.89
PULSE & PR	18	1.53	3.66
PULSE & PR	20	0.92	2.89
PULSE & PR	21	0.69	2.17
PULSE & PR	22	0.55	1.94
PULSE & PR	23	0.74	2.03
PULSE & PR	24	1.08	2.43
PULSE & PR	25	0.71	1.90
PULSE & PR	27	0.50	1.63
PULSE & PR	28	0.44	1.33
PULSE & PR	32	0.72	1.81
PULSE & PR	38	0.48	1.26
** BIR15			
MILK & PR	17	0.47	3.13
MILK & PR	18	0.28	2.97
MILK & PR	20	0.27	2.30
MILK & PR	21	0.34	2.15
MILK & PR	22	0.25	2.78
MILK & PR	23	0.20	1.67
MILK & PR	24	0.33	2.77
MILK & PR	25	0.18	1.90
MILK & PR	27	0.23	1.82
MILK & PR	28	0.19	1.46
MILK & PR	32	0.37	2.70
MILK & PR	38	0.20	2.37
** BIR27			
TOTAL FOOD	17	23.92	46.45
TOTAL FOOD	18	22.00	41.76
TOTAL FOOD	20	23.26	44.84
TOTAL FOOD	21	17.37	40.97
TOTAL FOOD	22	17.52	37.68
TOTAL FOOD	23	16.93	31.91
TOTAL FOOD	24	19.45	36.97
TOTAL FOOD	25	16.85	31.93
TOTAL FOOD	27	17.13	33.09
TOTAL FOOD	28	15.03	29.51
TOTAL FOOD	32	16.72	32.48
TOTAL FOOD	38	15.58	30.49
** BIR30			
TOTAL EXP.	17	28.25	59.74
TOTAL EXP.	18	26.39	55.20
TOTAL EXP.	20	27.23	55.67
TOTAL EXP.	21	20.43	49.11
TOTAL EXP.	22	21.16	48.86
TOTAL EXP.	23	20.20	42.05
TOTAL EXP.	24	23.06	47.95

Page No.
08/26/86

PER CAPITA CONSUMER EXPENDITURE (Rs.) BY DECILES
lower deciles: Average of 1,2 &3
Upper deciles: Average of 7,8 & 9

	ROUNDS	Lower Decile	Upper decile
TOTAL EXP.	28	17.27	34.96
TOTAL EXP.	32	19.88	41.12
TOTAL EXP.	38	18.80	38.36
** BIU 1			
FOODGRAINS	17	19.88	25.52
FOODGRAINS	18	17.24	21.14
FOODGRAINS	20	16.00	21.96
FOODGRAINS	21	13.97	23.54
FOODGRAINS	22	12.29	17.01
FOODGRAINS	23	14.72	16.83
FOODGRAINS	24	15.24	19.32
FOODGRAINS	25	15.21	20.02
FOODGRAINS	27	13.93	17.91
FOODGRAINS	28	12.35	18.12
FOODGRAINS	32	13.66	18.31
FOODGRAINS	38	13.52	18.72
** BIU 2			
CEREALS	17	16.93	21.09
CEREALS	18	15.48	17.96
CEREALS	20	14.31	19.38
CEREALS	21	12.45	21.15
CEREALS	22	11.21	15.44
CEREALS	23	12.81	14.49
CEREALS	24	13.64	16.92
CEREALS	25	13.55	17.41
CEREALS	27	12.90	15.90
CEREALS	28	11.81	16.88
CEREALS	32	12.69	16.15
CEREALS	38	13.19	17.39
** BIU 3			
RICE & PR	17	12.46	14.79
RICE & PR	27	6.98	9.91
RICE & PR	28	6.85	10.68
RICE & PR	32	7.46	10.16
** BIU 4			
WHEAT & PR	17	4.67	6.54
WHEAT & PR	27	5.13	6.05
WHEAT & PR	28	4.56	6.35
WHEAT & PR	32	4.75	5.96
** BIU 5			
JAWAR & PR	17	0.00	0.03
JAWAR & PR	27	0.02	0.02
JAWAR & PR	28	0.04	0.00
JAWAR & PR	32	0.01	0.00

Page No.
08/26/86

PER CAPITA CONSUMER EXPENDITURE (Rs.) BY DECILES
lower deciles: Average of 1,2 &3
Upper deciles: Average of 7,8 & 9

	ROUNDS	Lower Decile	Upper decile
** BIU 6			
BAJRA & PR	17	0.00	0.00
BAJRA & PR	27	0.00	0.00
BAJRA & PR	28	0.00	0.07
BAJRA & PR	32	0.01	0.00
** BIU 7			
MAIZE & PR	17	0.08	0.07
MAIZE & PR	27	0.97	0.34
MAIZE & PR	28	0.67	0.35
MAIZE & PR	32	0.45	0.12
** BIU 8			
RAGI & PR	17	0.02	0.02
RAGI & PR	27	0.06	0.01
RAGI & PR	28	0.05	0.04
RAGI & PR	32	0.05	0.01
** BIU 9			
BARLEY &PR	17	0.00	0.10
BARLEY &PR	27	0.05	0.01
BARLEY &PR	28	0.04	0.06
BARLEY &PR	32	0.01	0.01
** BIU10			
SM. MILLET	17	0.00	0.00
SM. MILLET	27	0.00	0.00
SM. MILLET	28	0.00	0.00
SM. MILLET	32	0.01	0.00
** BIU11			
GRAM	17	0.16	0.29
GRAM	20	0.16	0.21
GRAM	21	0.19	0.24
GRAM	22	0.10	0.16
GRAM	23	0.30	0.27
GRAM	24	0.18	0.27
GRAM	25	0.16	0.37
GRAM	27	0.15	0.33
GRAM	28	0.10	0.23
GRAM	32	0.14	0.41
GRAM	38	0.09	0.32
** BIU13			
CEREAL SUB	17	0.02	0.02
CEREAL SUB	18	0.06	0.20
CEREAL SUB	20	0.27	0.09
CEREAL SUB	21	0.40	0.19
CEREAL SUB	22	0.35	0.07
CEREAL SUB	23	0.24	0.04
[illegible]	[illegible]	[illegible]	[illegible]

PER CAPITA CONSUMER EXPENDITURE (Rs.) BY DECILES
lower deciles: Average of 1,2 &3
Upper deciles: Average of 7,8 & 9

	ROUNDS	Lower Decile	Upper decile
CEREAL SUB	27	0.15	0.02
CEREAL SUB	28	0.12	0.10
CEREAL SUB	32	0.11	0.02
CEREAL SUB	38	0.00	0.00
** BIU14			
PULSE & PR	17	2.55	3.96
PULSE & PR	18	1.64	2.95
PULSE & PR	20	1.40	2.43
PULSE & PR	21	1.02	2.11
PULSE & PR	22	1.07	1.83
PULSE & PR	23	1.30	1.97
PULSE & PR	24	1.27	2.03
PULSE & PR	25	1.40	2.23
PULSE & PR	27	0.98	1.84
PULSE & PR	28	0.70	1.33
PULSE & PR	32	1.10	2.01
PULSE & PR	38	0.74	1.48
** BIU15			
MILK & PR	17	0.81	10.21
MILK & PR	18	0.90	6.93
MILK & PR	20	0.63	4.29
MILK & PR	21	0.59	4.44
MILK & PR	22	0.40	5.13
MILK & PR	23	0.57	4.74
MILK & PR	24	0.63	5.40
MILK & PR	25	0.51	4.82
MILK & PR	27	0.53	4.53
MILK & PR	28	0.40	2.57
MILK & PR	32	0.63	4.90
MILK & PR	38	0.63	4.36
** BIU27			
TOTAL FOOD	17	26.43	56.15
TOTAL FOOD	18	24.39	46.05
TOTAL FOOD	20	21.21	40.65
TOTAL FOOD	21	19.74	40.95
TOTAL FOOD	22	17.97	35.79
TOTAL FOOD	23	20.37	36.21
TOTAL FOOD	24	21.22	39.56
TOTAL FOOD	25	20.62	39.06
TOTAL FOOD	27	20.29	37.12
TOTAL FOOD	28	16.56	30.76
TOTAL FOOD	32	18.92	35.10
TOTAL FOOD	38	18.72	34.70
** BIU30			
TOTAL EXP.	17	33.24	88.38
TOTAL EXP.	18	30.07	74.16

Page No.
08/26/86

PER CAPITA CONSUMER EXPENDITURE (Rs.) BY DECILES
lower deciles: Average of 1,2 &3
Upper deciles: Average of 7,8 & 9

B\U	ROUNDS	Lower Decile	Upper decile
TOTAL EXP.	22	23.16	55.06
TOTAL EXP.	23	25.07	56.20
TOTAL EXP.	24	25.99	60.14
TOTAL EXP.	25	25.22	56.83
TOTAL EXP.	27	24.67	53.52
TOTAL EXP.	28	19.61	39.10
TOTAL EXP.	32	22.79	47.77
TOTAL EXP.	38	22.75	47.69

PER CAPITA ENERGY INTAKE (CALORIES PER DAY) BY DECILES

BIR 17	1861	3342
BIR 18	1615	2785
BIR 20	1782	3276
BIR 21	1298	2979
BIR 22	1244	2509
BIR 23	1297	2266
BIR 24	1463	2613
BIR 25	1321	2343
BIR 27	1254	2292
BIR 28	1135	2124
BIR 32	1284	2325
BIR 38	1209	2194

BIU 17	1905	2890
BIU 18	1558	2064
BIU 20	1546	2373
BIU 21	1376	2501
BIU 22	1218	1940
BIU 23	1445	1947
BIU 24	1501	2198
BIU 25	1487	2228
BIU 27	1375	2022
BIU 28	1195	1893
BIU 32	1359	2073
BIU 38	1343	2075

PER CAPITA ENERGY INTAKE (PROTEIN PER DAY) BY DECILES

BIR 17	58	104
BIR 18	52	89
BIR 20	56	102
BIR 21	40	93
BIR 22	39	78
BIR 23	40	71
BIR 24	46	82
BIR 25	42	73
BIR 27	39	71
BIR 28	36	66
BIR 32	40	72
BIR 38	37	68

BIU 17	58	89
BIU 18	50	68
BIU 20	48	72
BIU 21	42	76
BIU 22	37	58
BIU 23	44	58
BIU 24	46	67
BIU 25	46	68
BIU 27	42	61
BIU 28	37	58
BIU 32	41	62
BIU 38	41	63

FIG.1

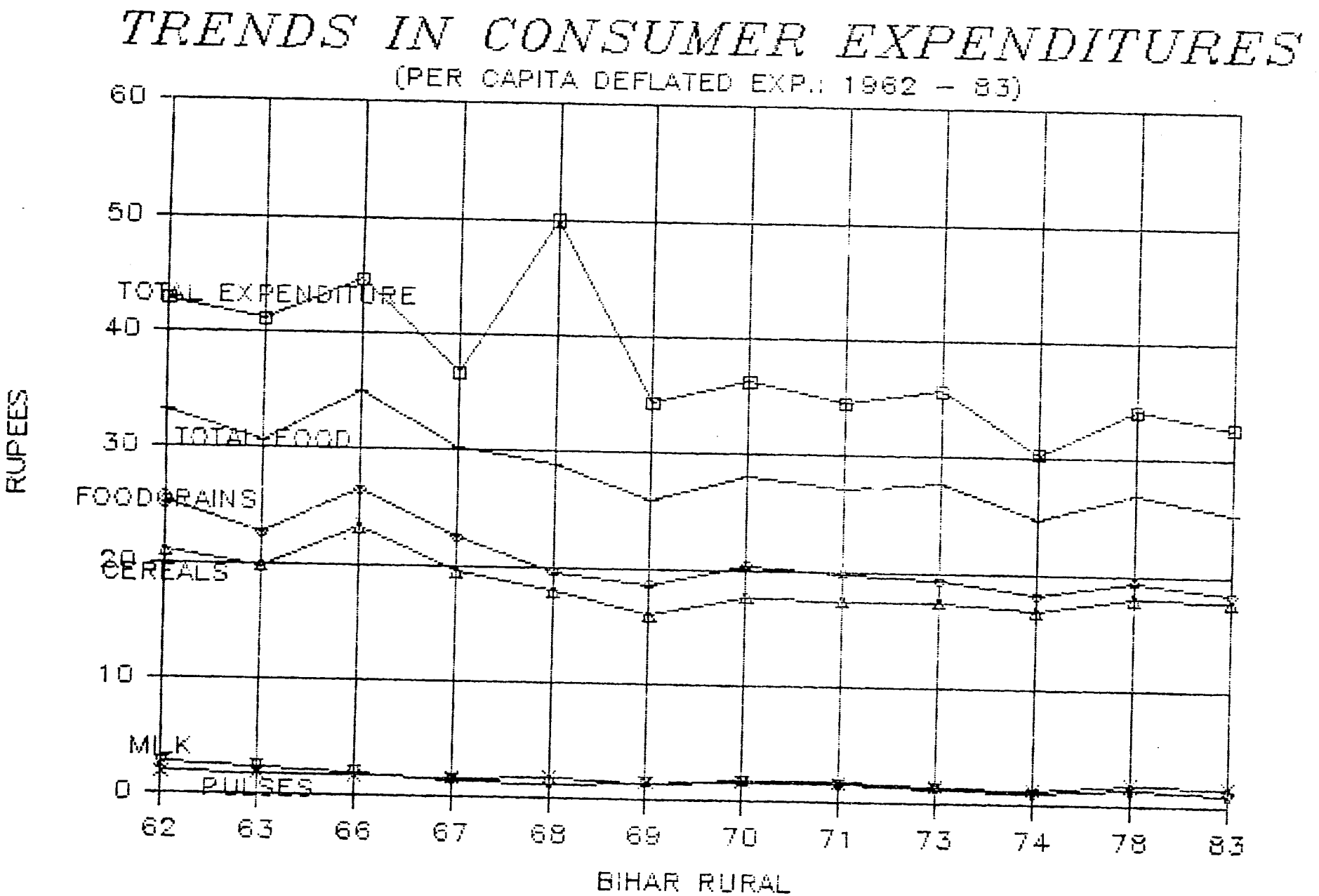

TRENDS IN CONSUMER EXPENDITURES
(PER CAPITA DEFLATED EXP.: 1962 - 83)
RUPEES
60
50
40
30
20
10
0
TOTAL EXPENDITURE
TOTAL FOOD
FOODGRAINS
CEREALS
MILK
PULSES
62
63
66
67
68
69
70
71
73
74
78
83
BIHAR RURAL

FIG.2

PER CAPITA EXPENDITURES: 1962–83

BY DECILE GROUPS

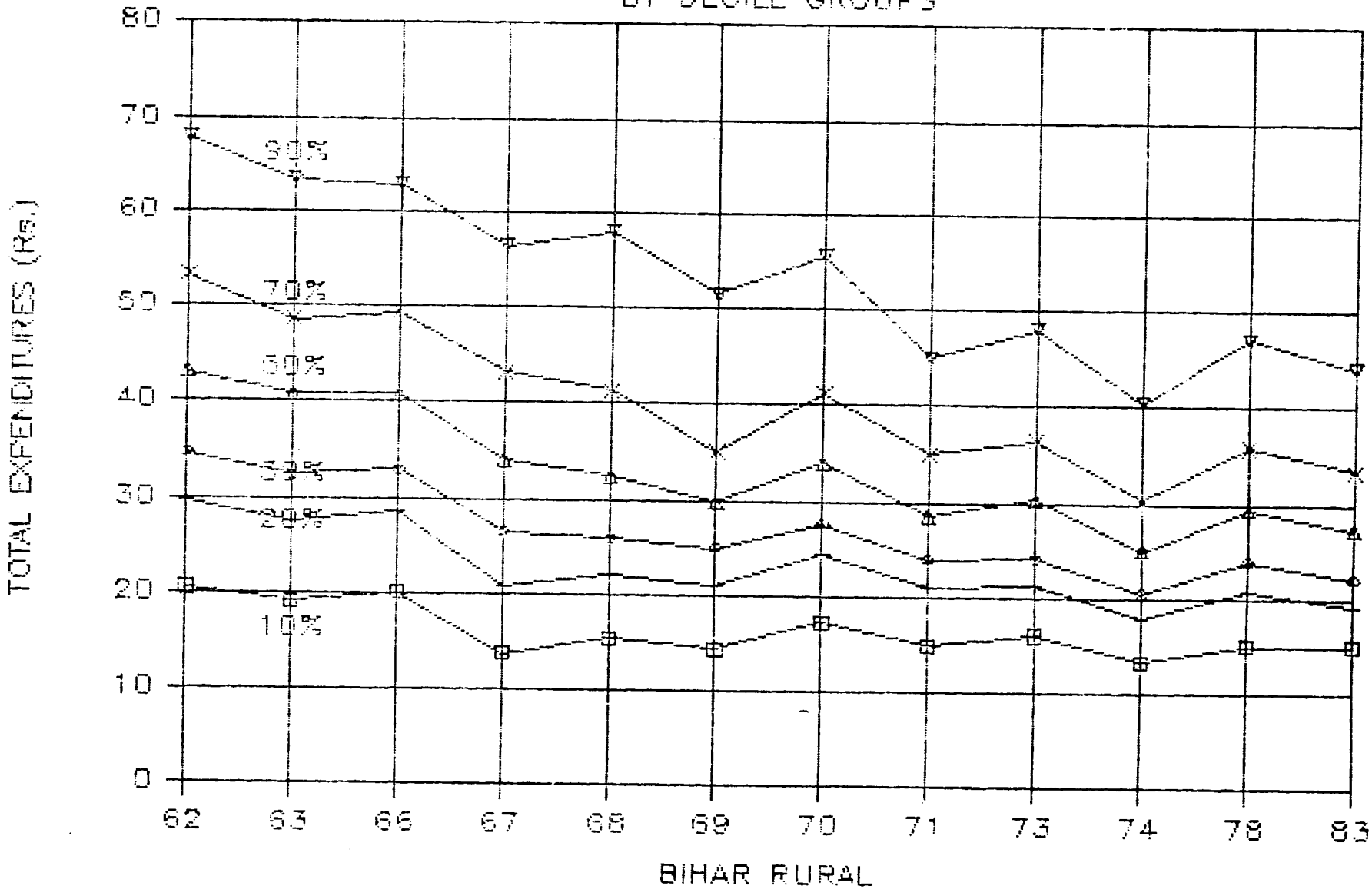


FIG.3

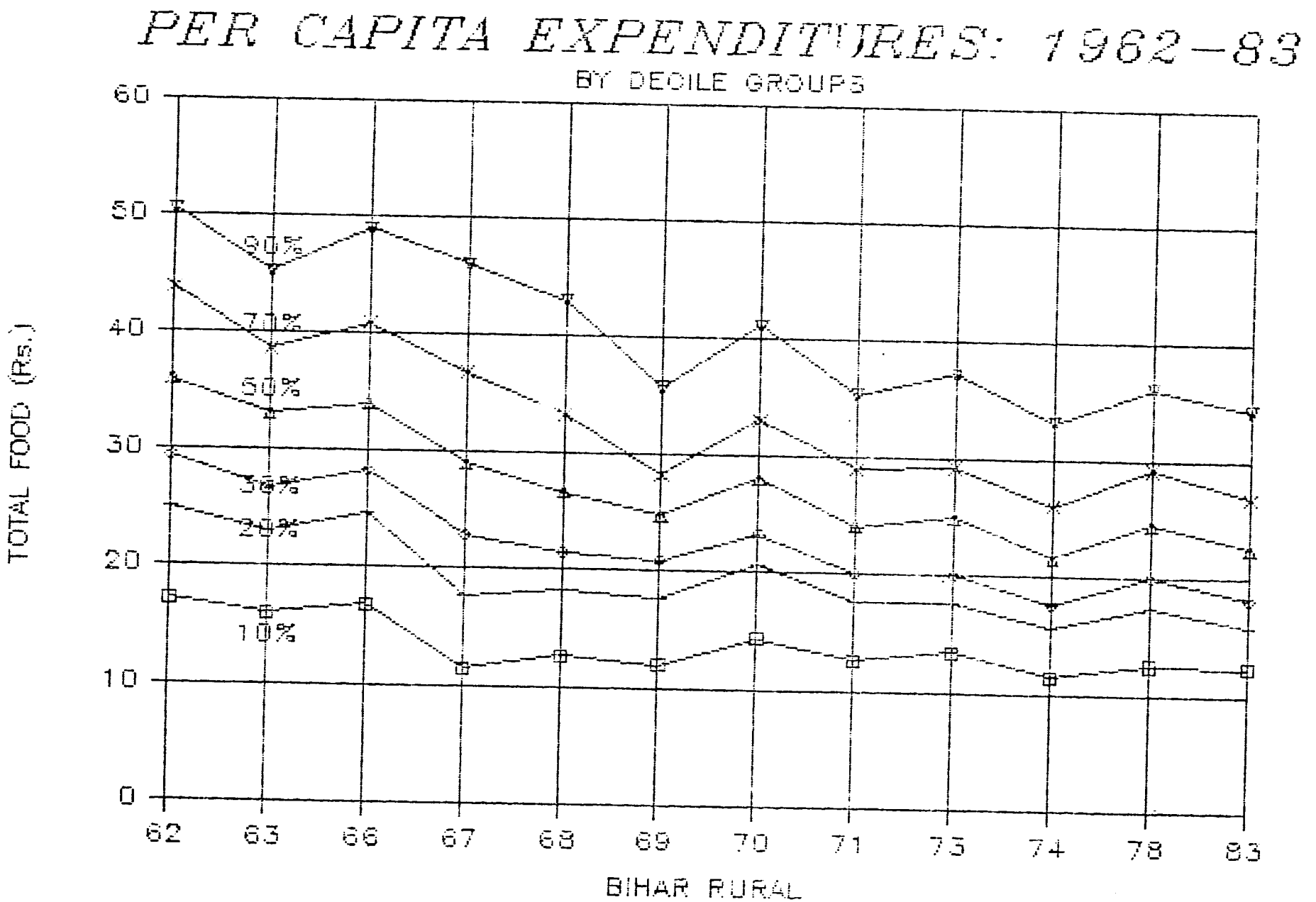

PER CAPITA EXPENDITURES: 1962-83
BY DECILE GROUPS
TOTAL FOOD (Rs.)
60
50
40
30
20
10
0
90%
70%
50%
30%
20%
10%
62
63
66
67
68
69
70
71
73
74
78
83
BIHAR RURAL

FIG.4

PER CAPITA EXPENDITURES: 1962–83

BY DECILE GROUPS

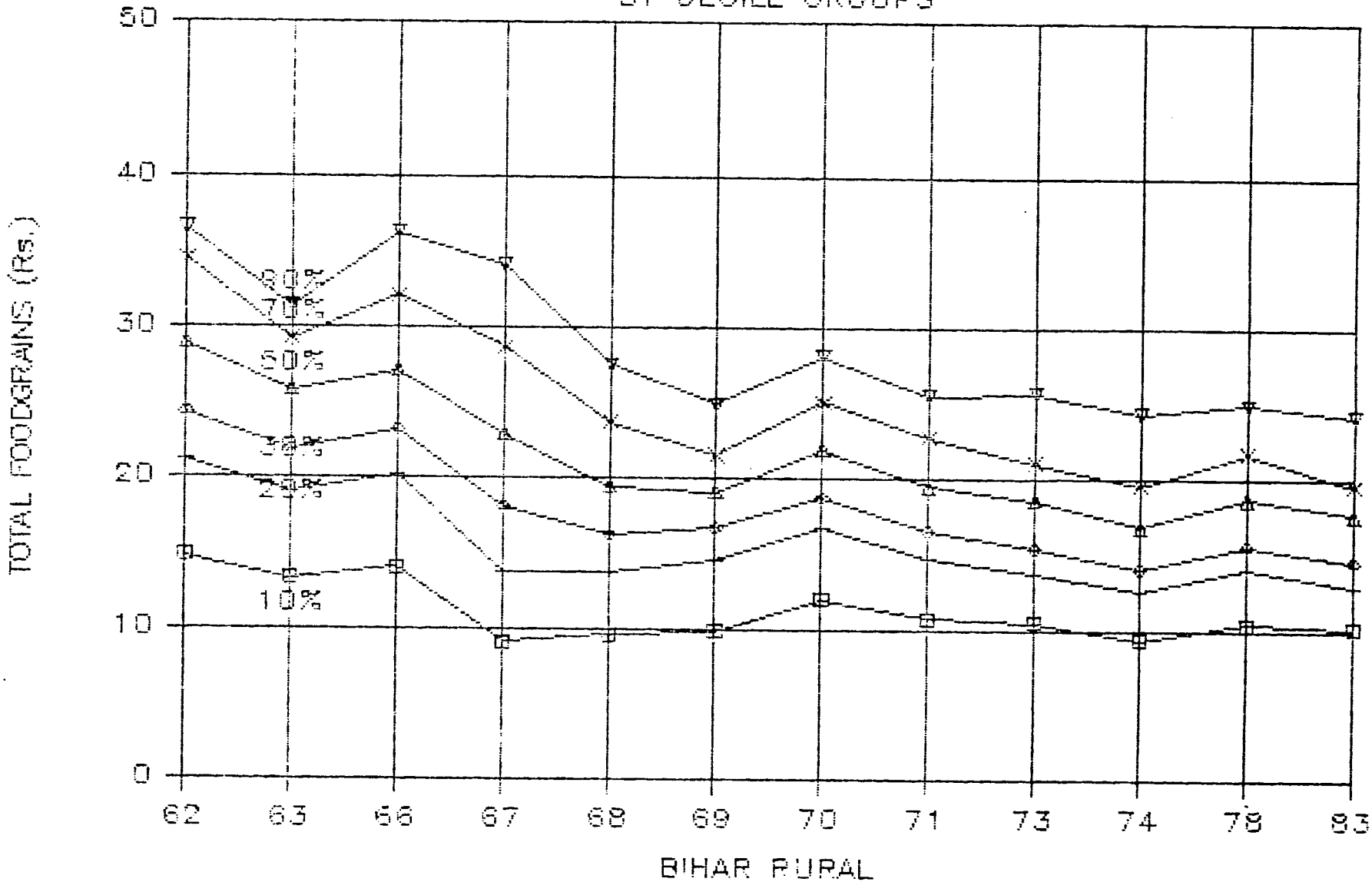


FIG.5

PER CAPITA EXPENDITURES: 1962–83

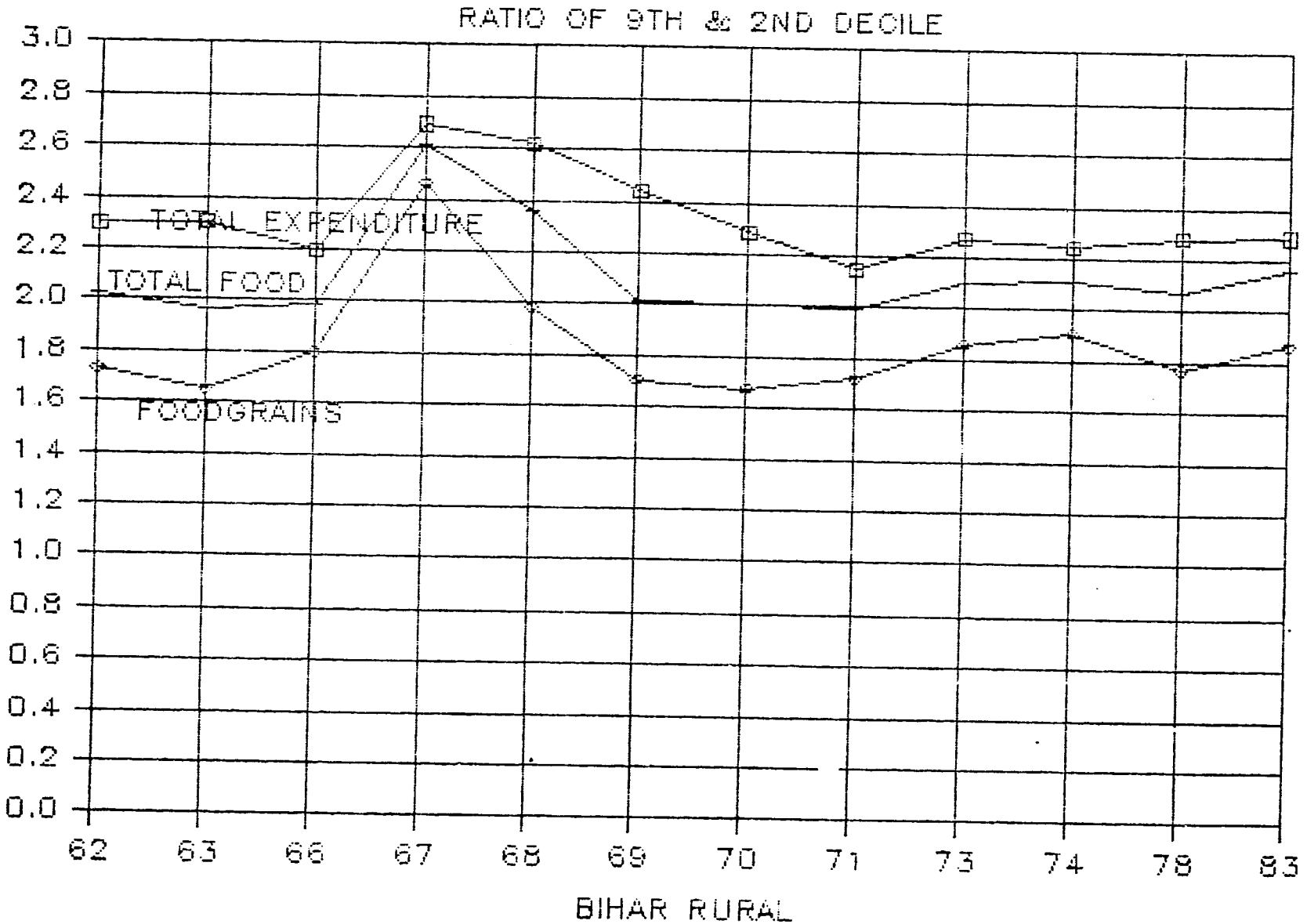


FIG.6

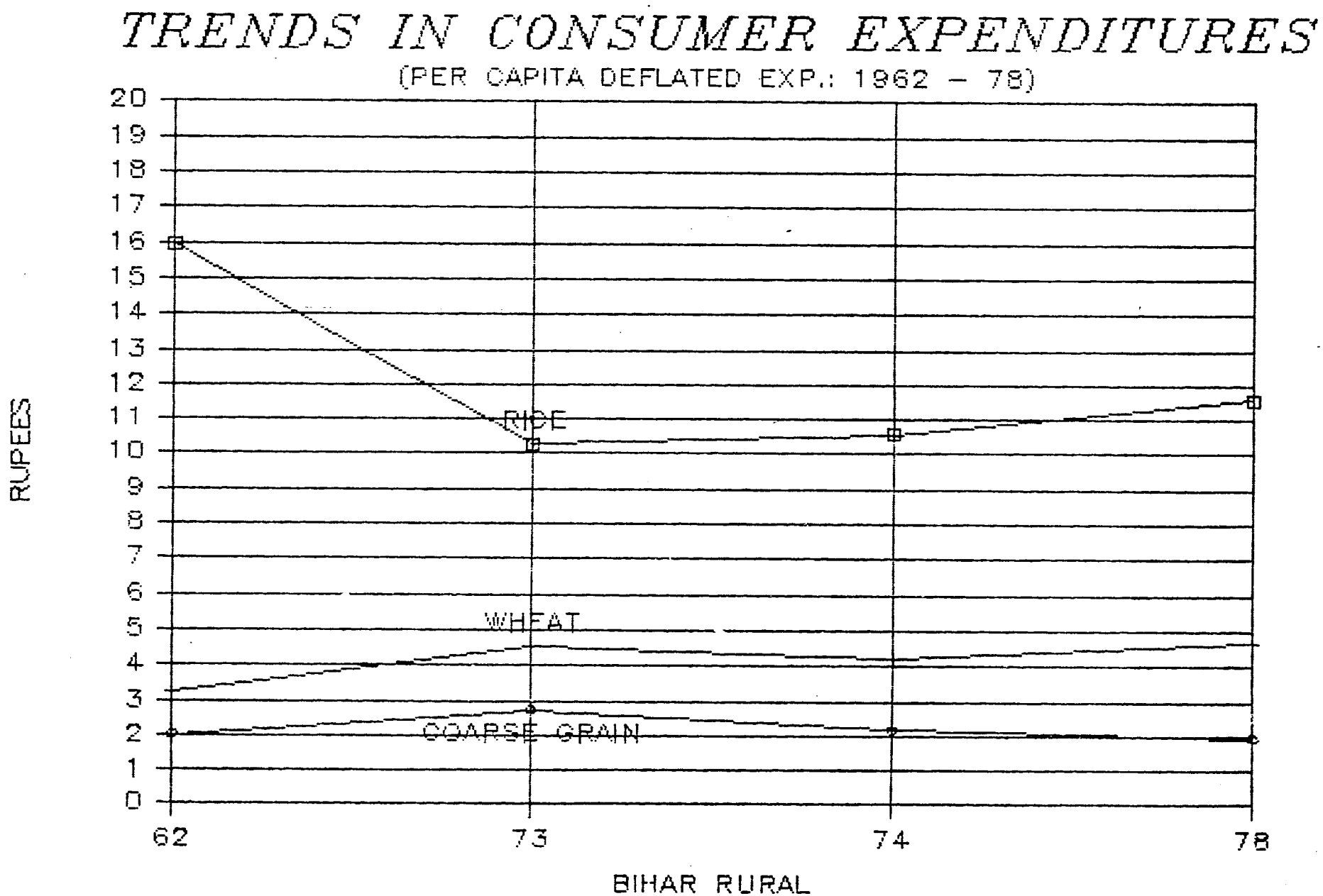

TRENDS IN CONSUMER EXPENDITURES
(PER CAPITA DEFLATED EXP.: 1962 - 78)
RUPEES
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
0
RICE
WHEAT
COARSE GRAIN
62
73
74
78
BIHAR RURAL

FIG.7

PER CAPITA EXPENDITURES: 1962–83

BY DECILE GROUPS

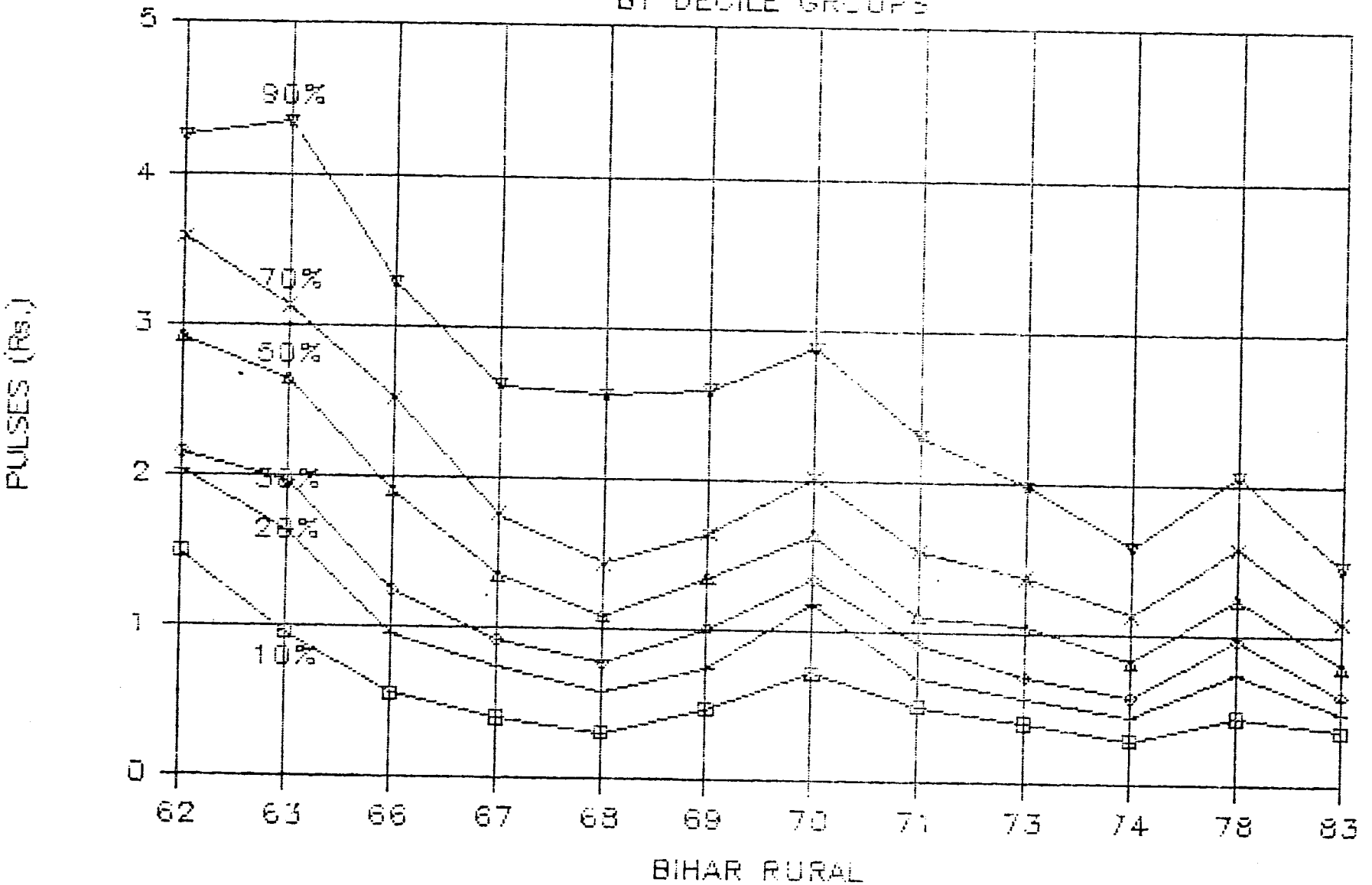


FIG.8

PER CAPITA ENERGY INTAKE:1962–83

BY DECILE GROUPS

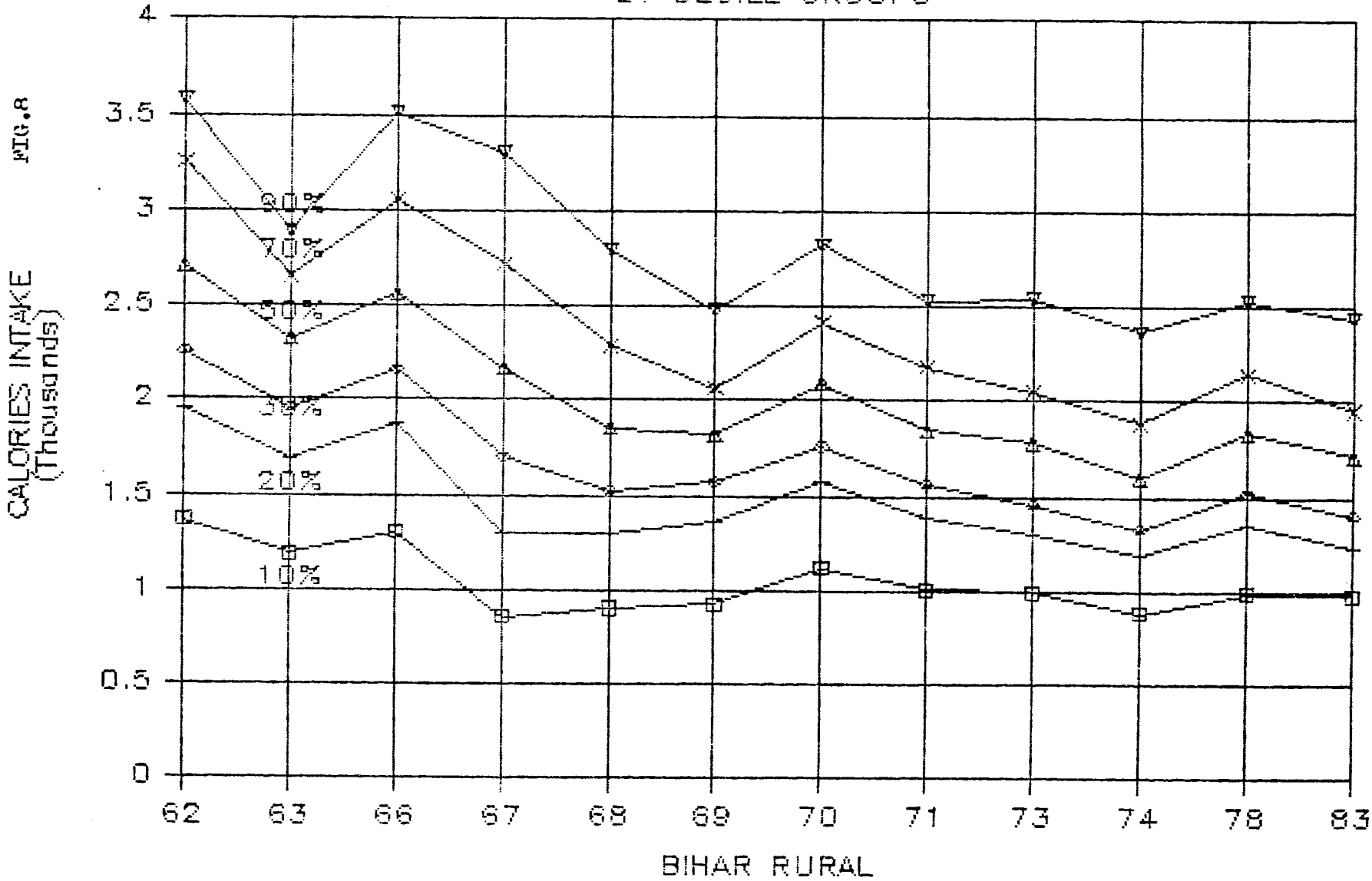


FIG.9

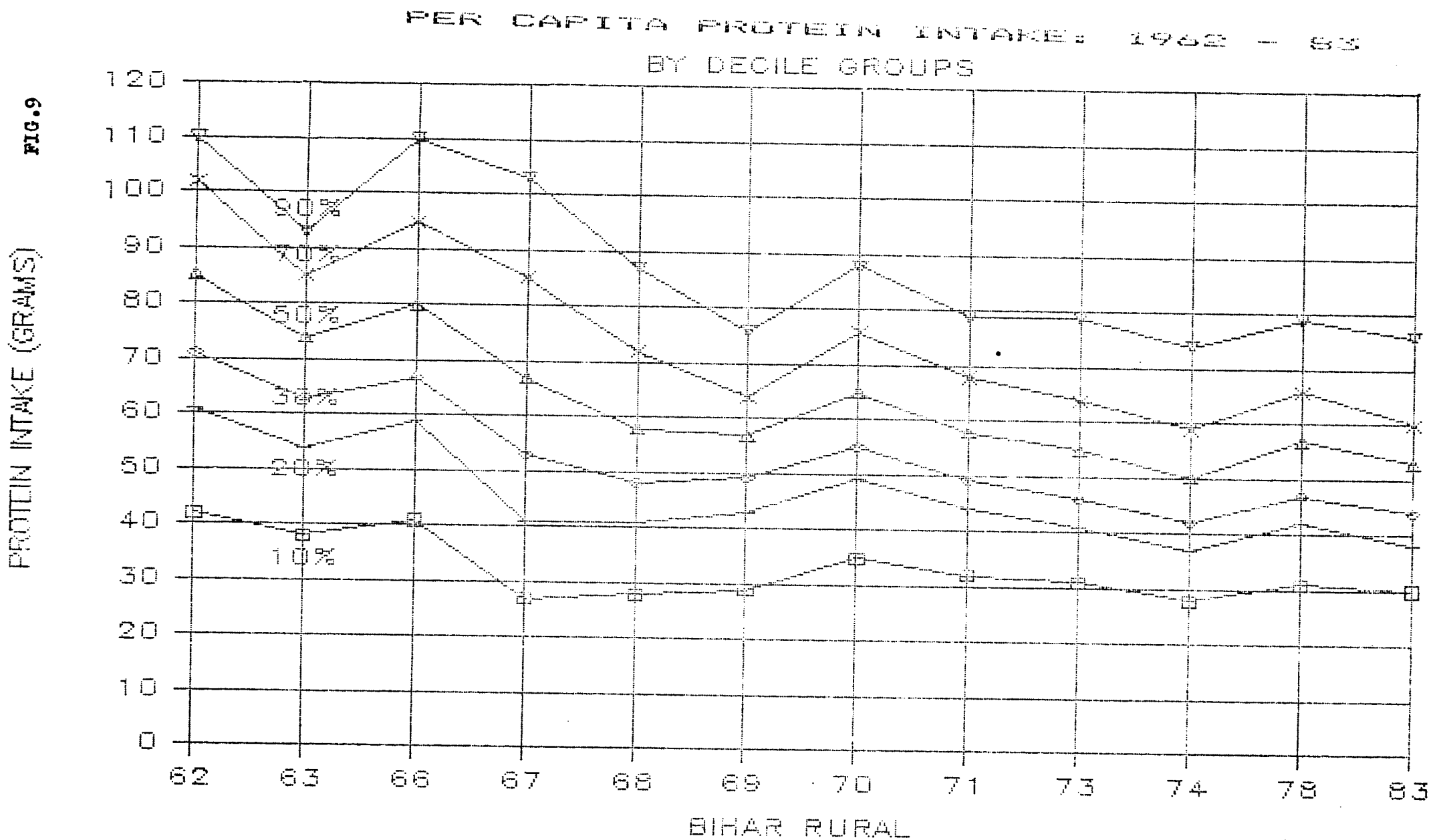

PER CAPITA PROTEIN INTAKE: 1962 - 83
BY DECILE GROUPS
PROTEIN INTAKE (GRAMS)
120
110
100
90
80
70
60
50
40
30
20
10
0
90%
70%
50%
30%
20%
10%
62
63
66
67
68
69
70
71
73
74
78
83
BIHAR RURAL

FIG.10

TRENDS IN CONSUMER EXPENDITURES

(PERSONS BELOW POVERTY LINE: 1962 – 83)

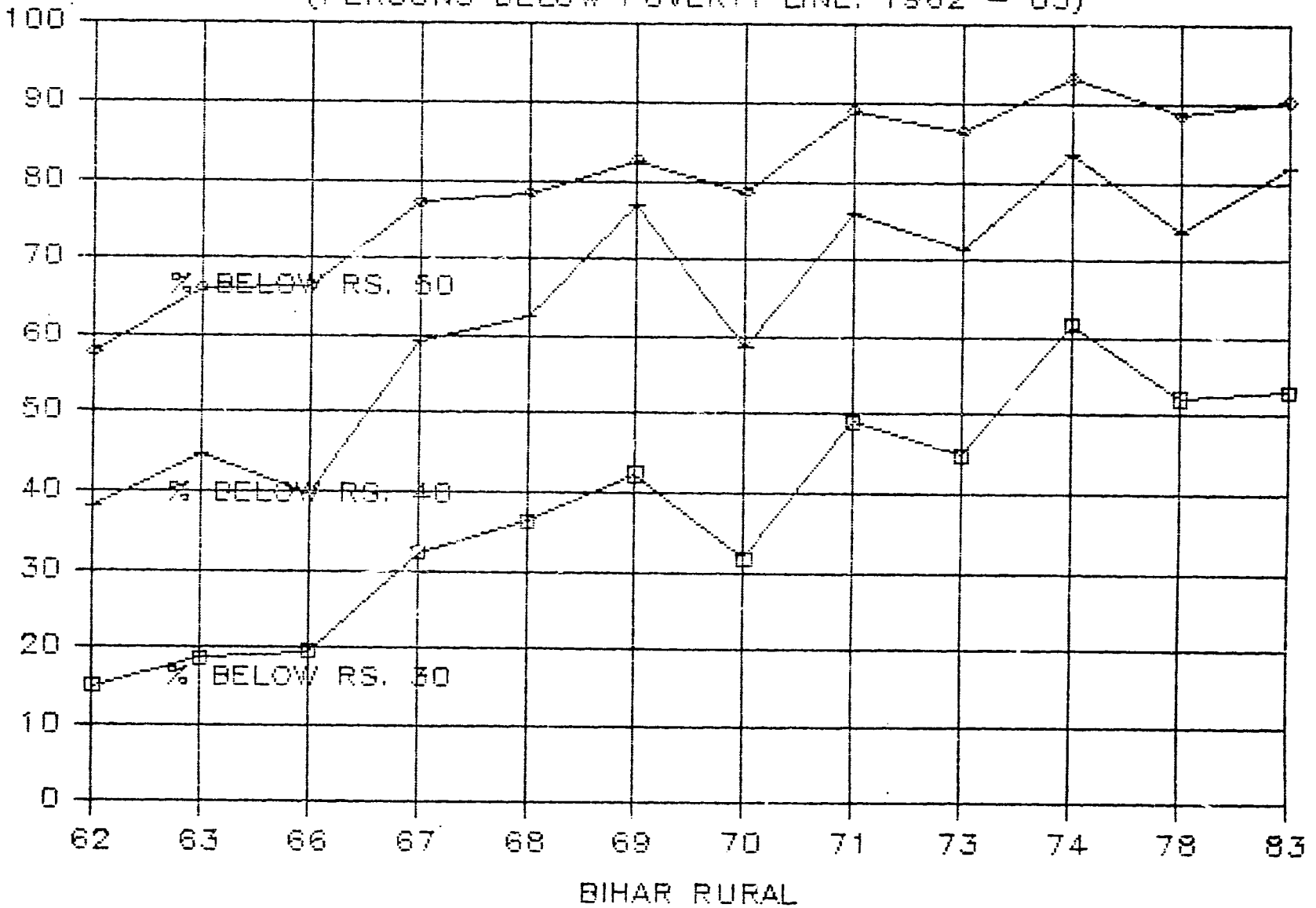


FIG.11

TRENDS IN CONSUMER EXPENDITURES

(PER CAPITA DEFLATED EXP.: 1962 – 83)

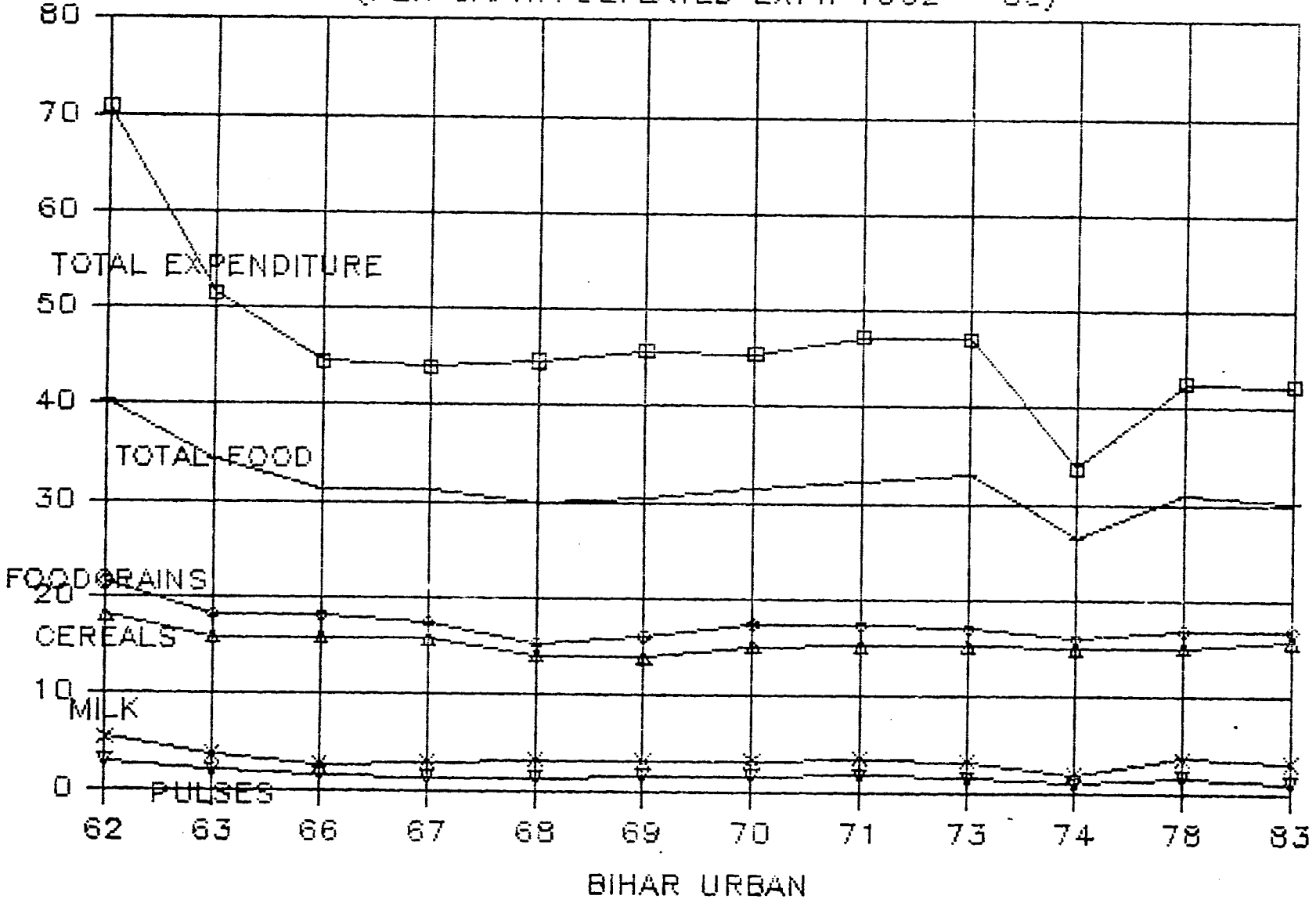


FIG.12

PER CAPITA EXPENDITURES: 1962-83

BY DECILE GROUPS

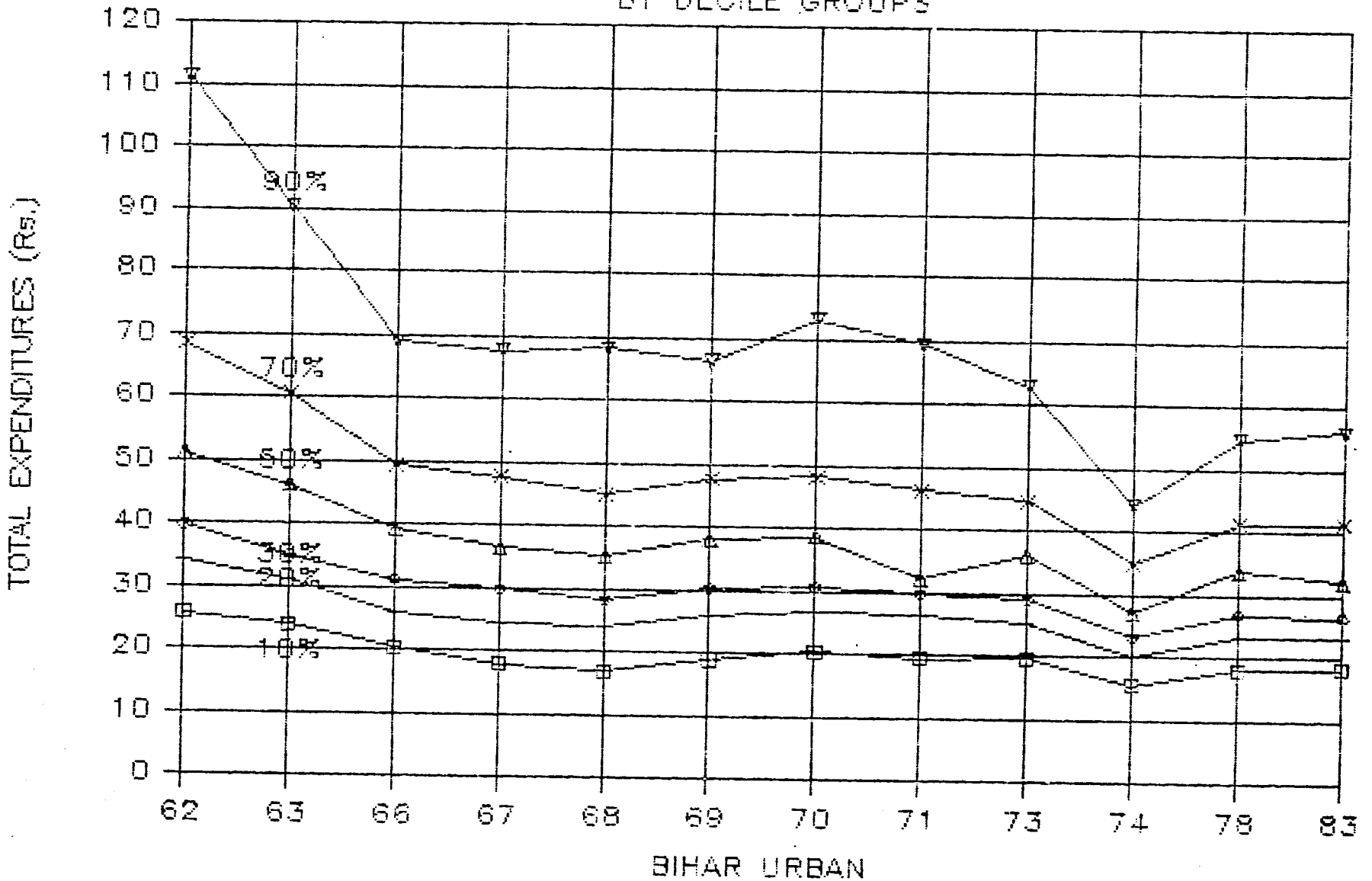


FIG.13

PER CAPITA EXPENDITURES: 1962–83

BY DECILE GROUPS

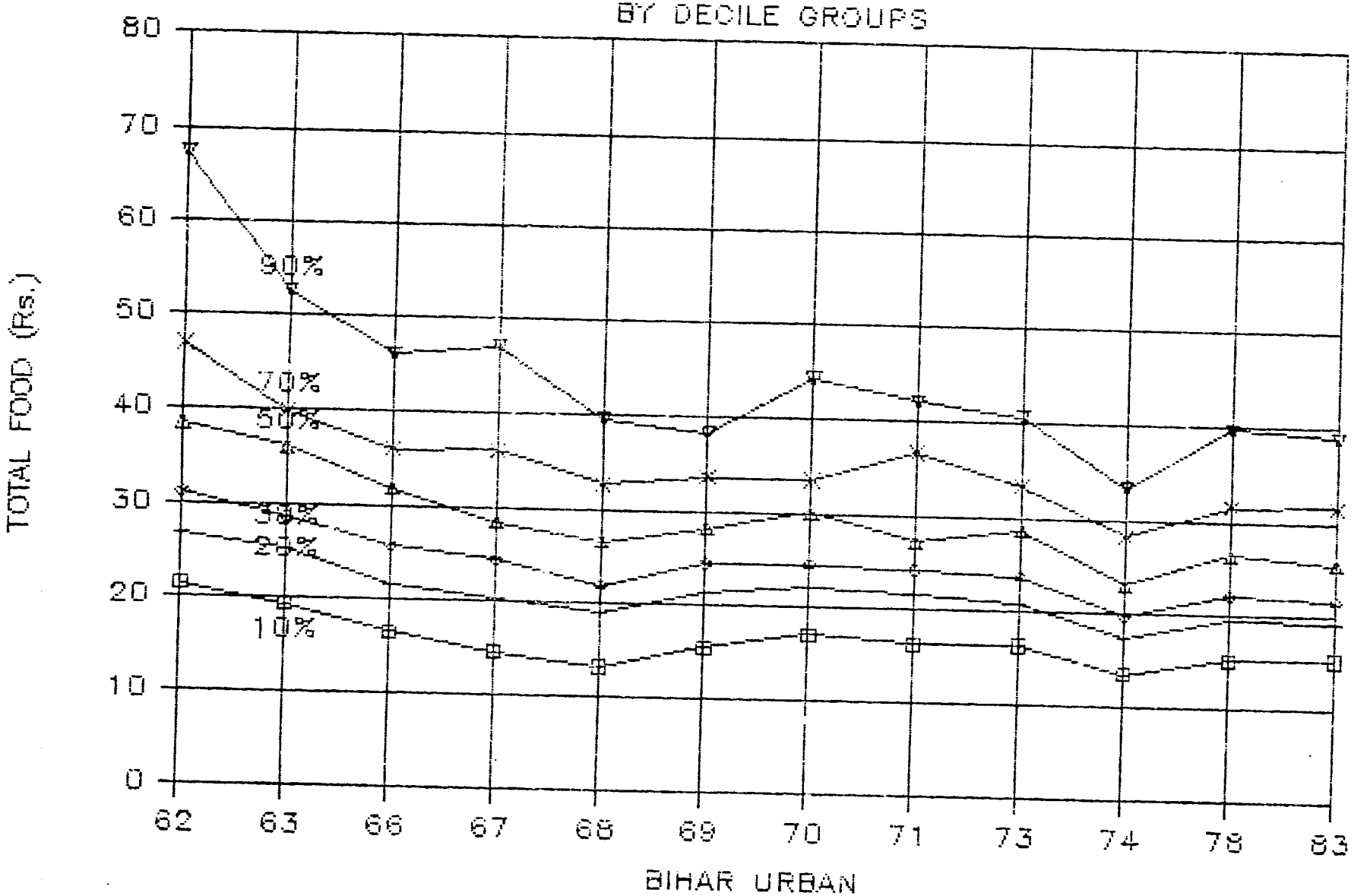
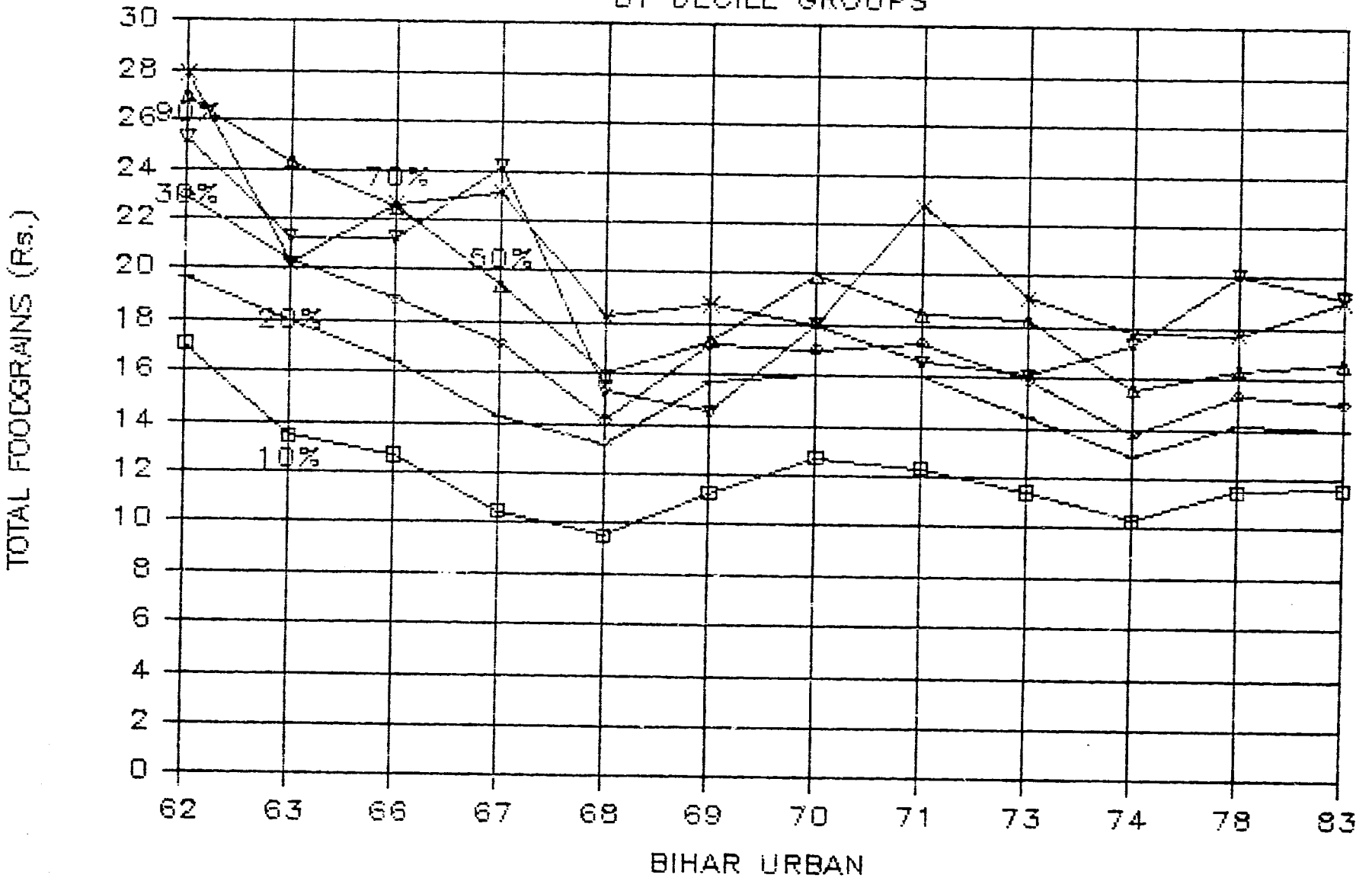


FIG.14

PER CAPITA EXPENDITURES: 1962–83

BY DECILE GROUPS



PER CAPITA EXPENDITURES: 1962–83

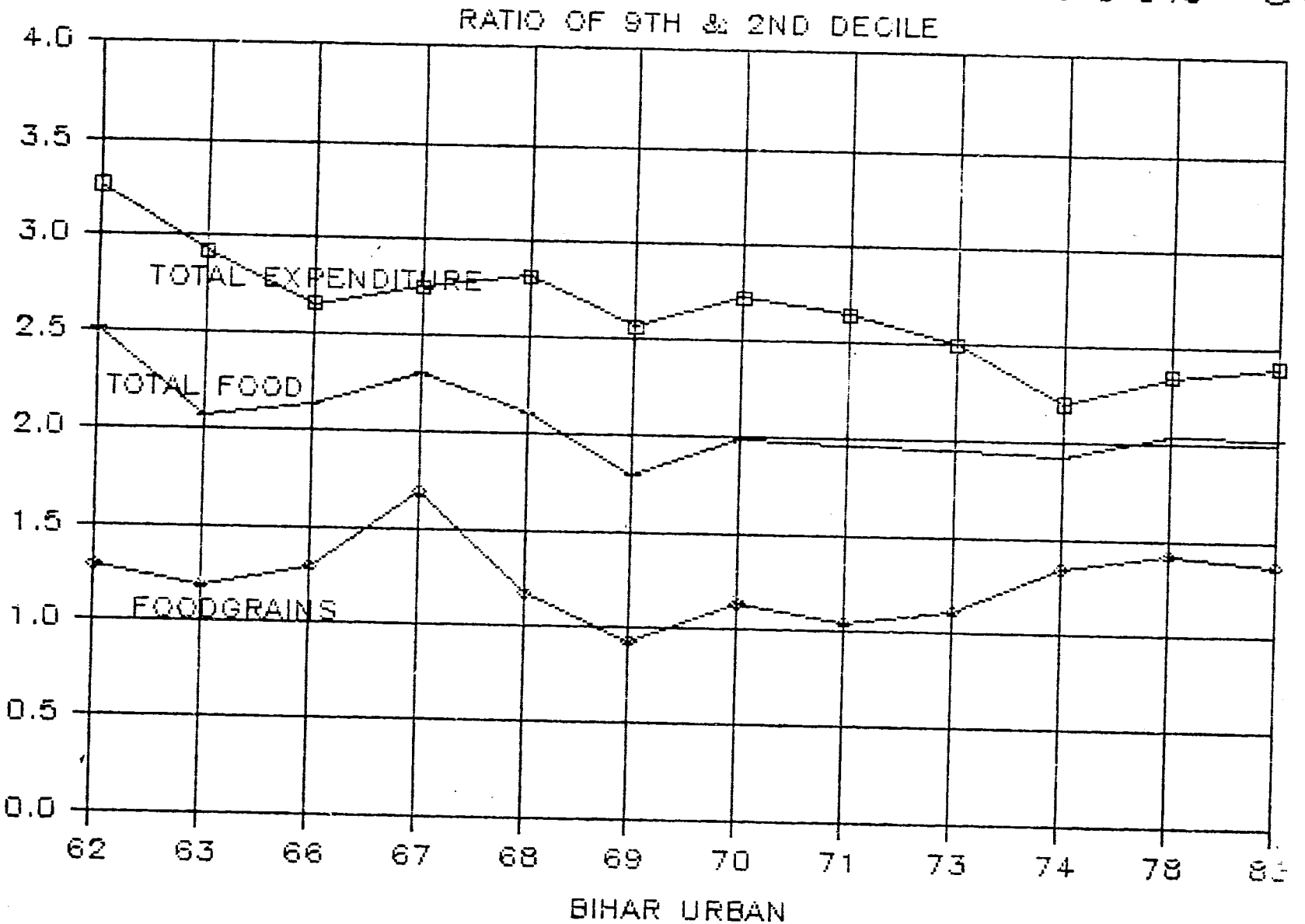


FIG.15
RATIO

FIG.16

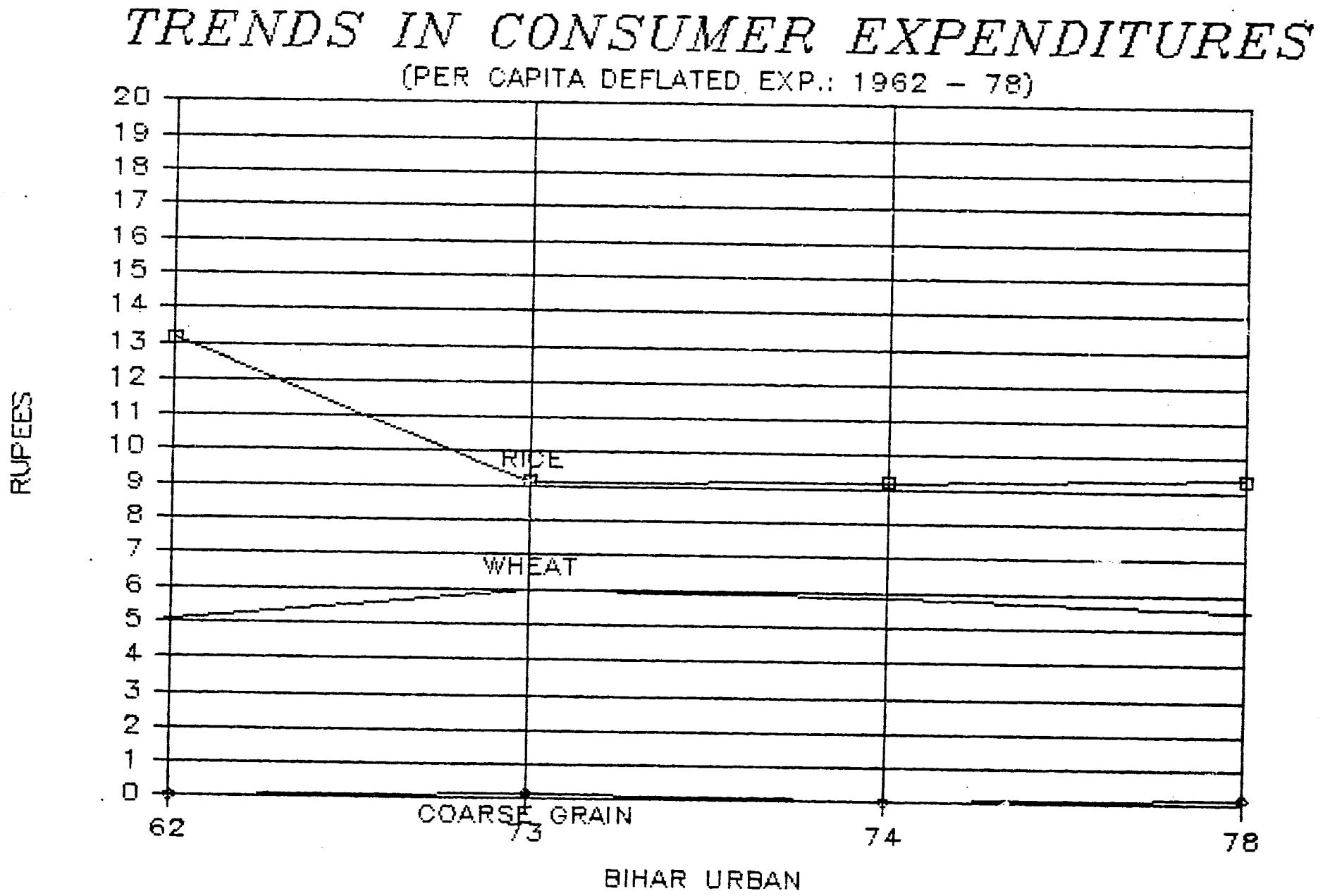

TRENDS IN CONSUMER EXPENDITURES
(PER CAPITA DEFLATED EXP.: 1962 – 78)
RUPEES
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
0
RICE
WHEAT
COARSE GRAIN
62
73
74
78
BIHAR URBAN

FIG. 17

PER CAPITA EXPENDITURES: 1962–83

BY DECILE GROUPS

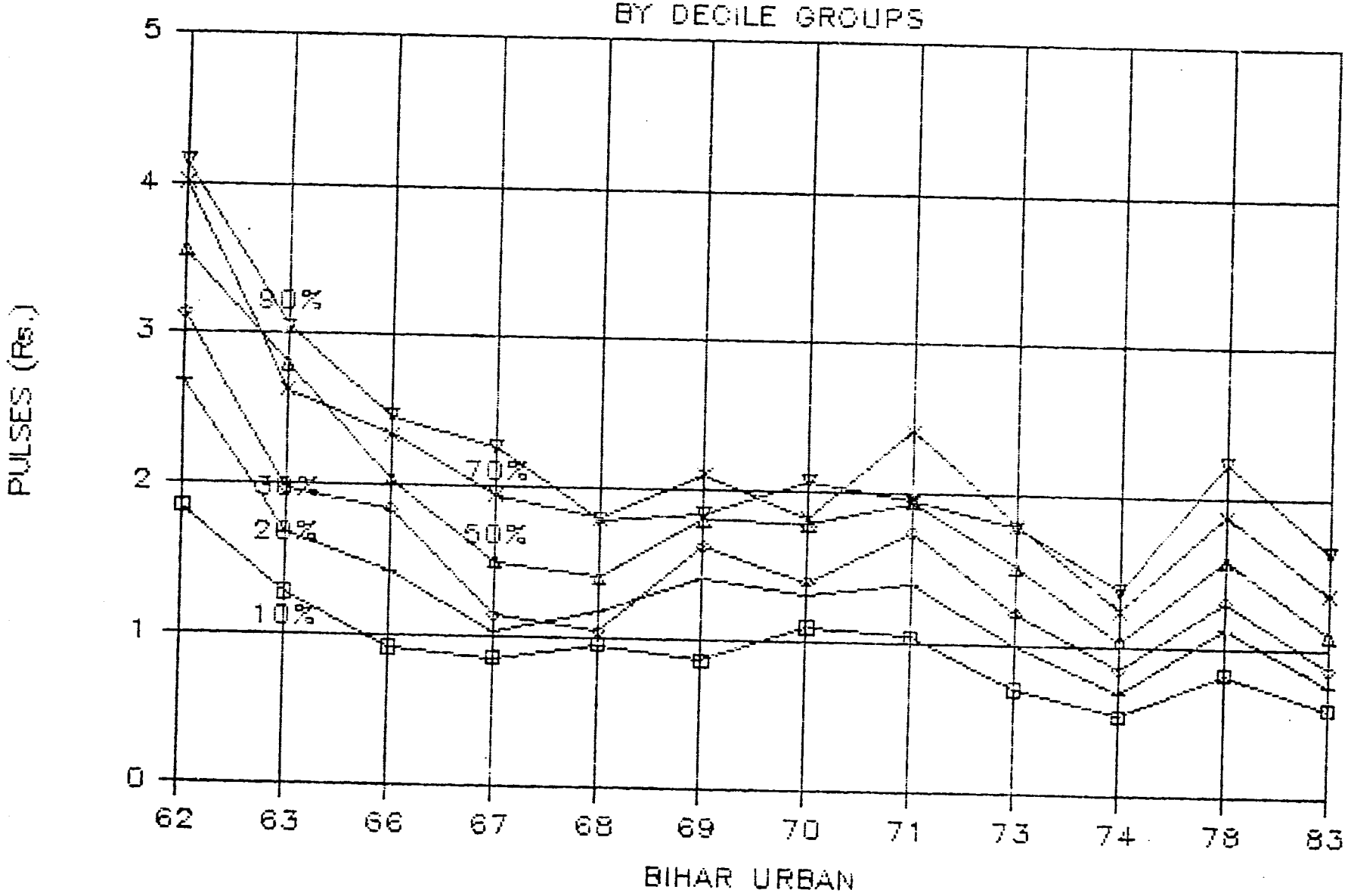


FIG.18

PER CAPITA ENERGY INTAKE:1962–83

BY DECILE GROUPS

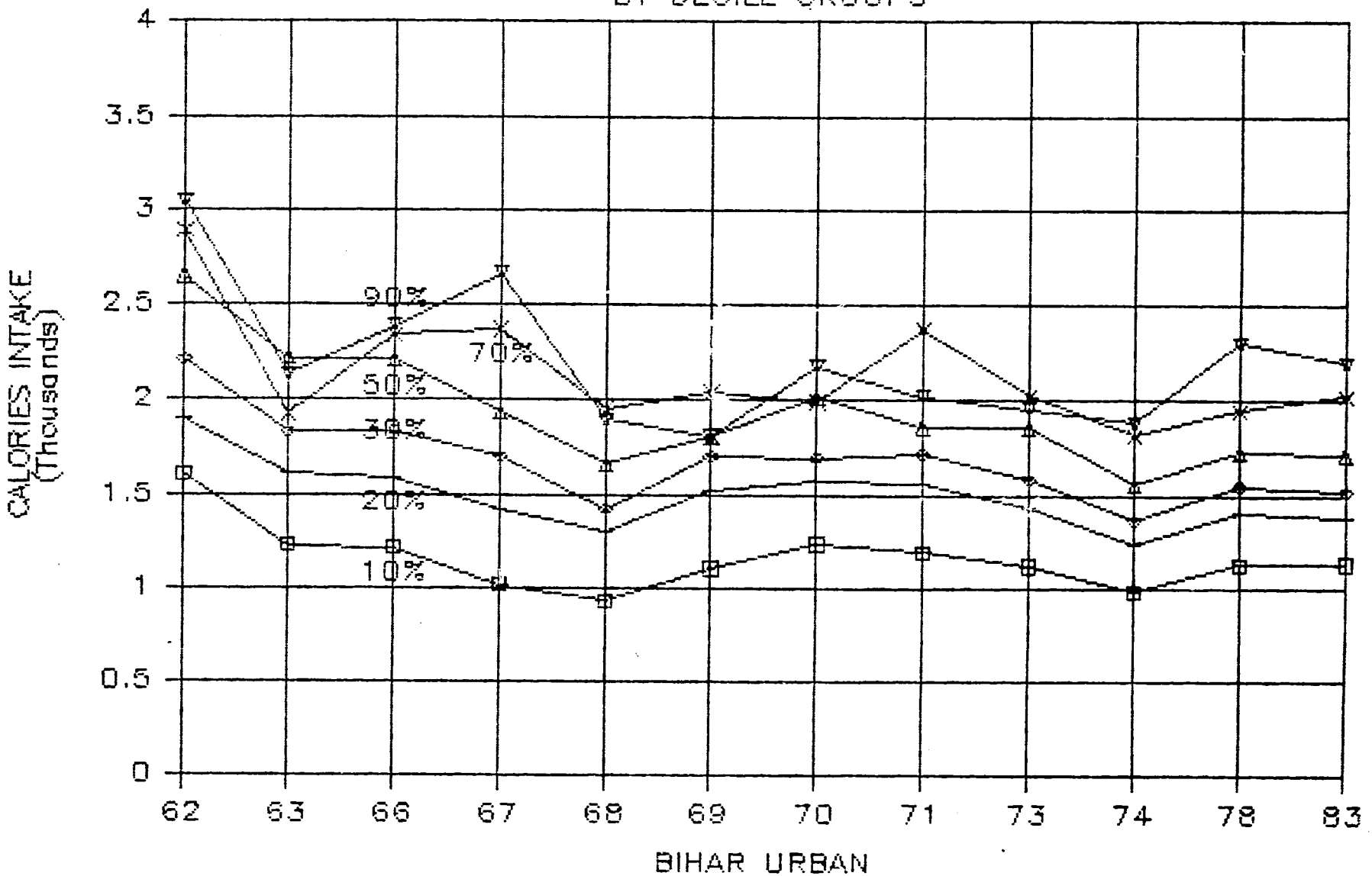


FIG.19

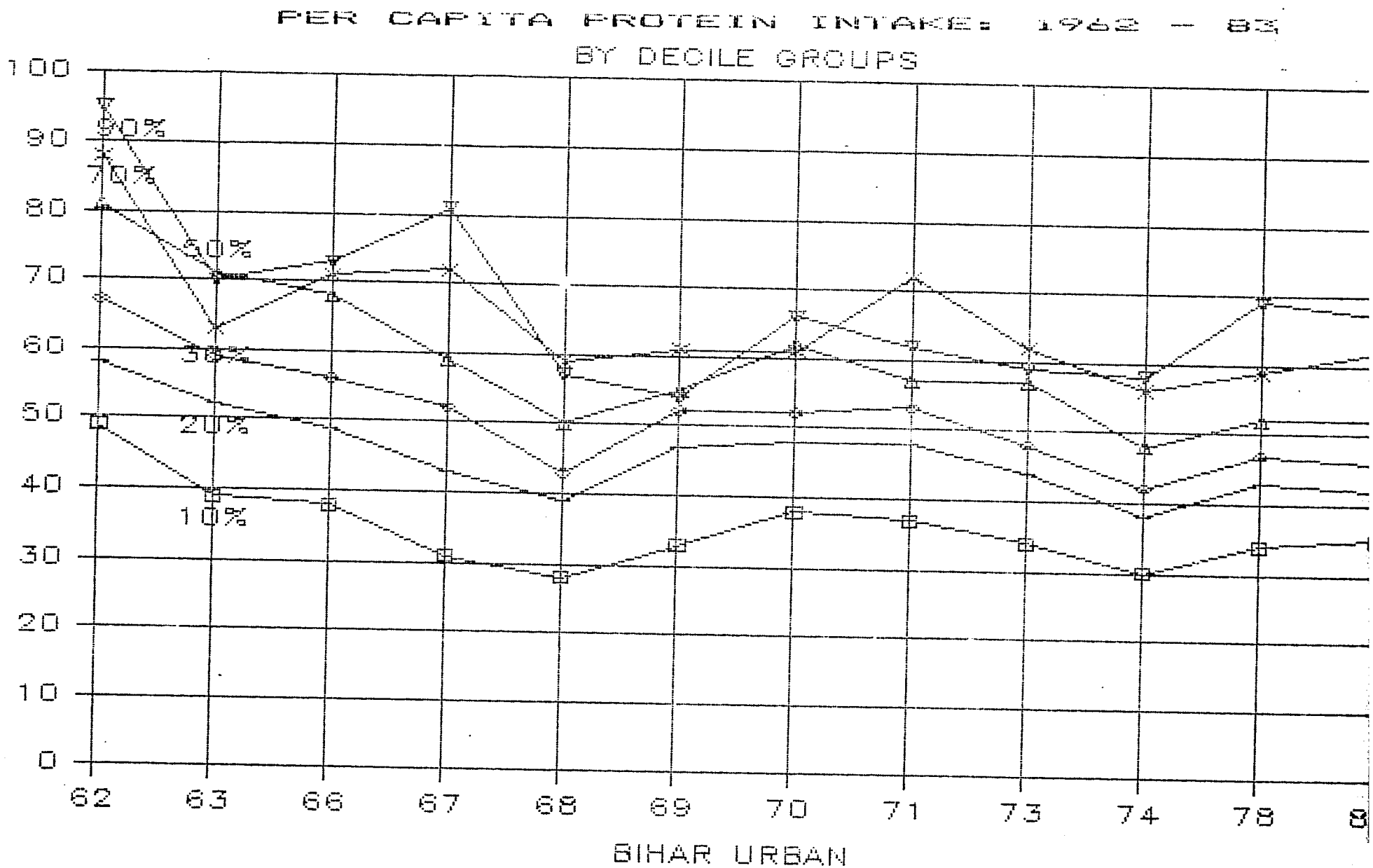
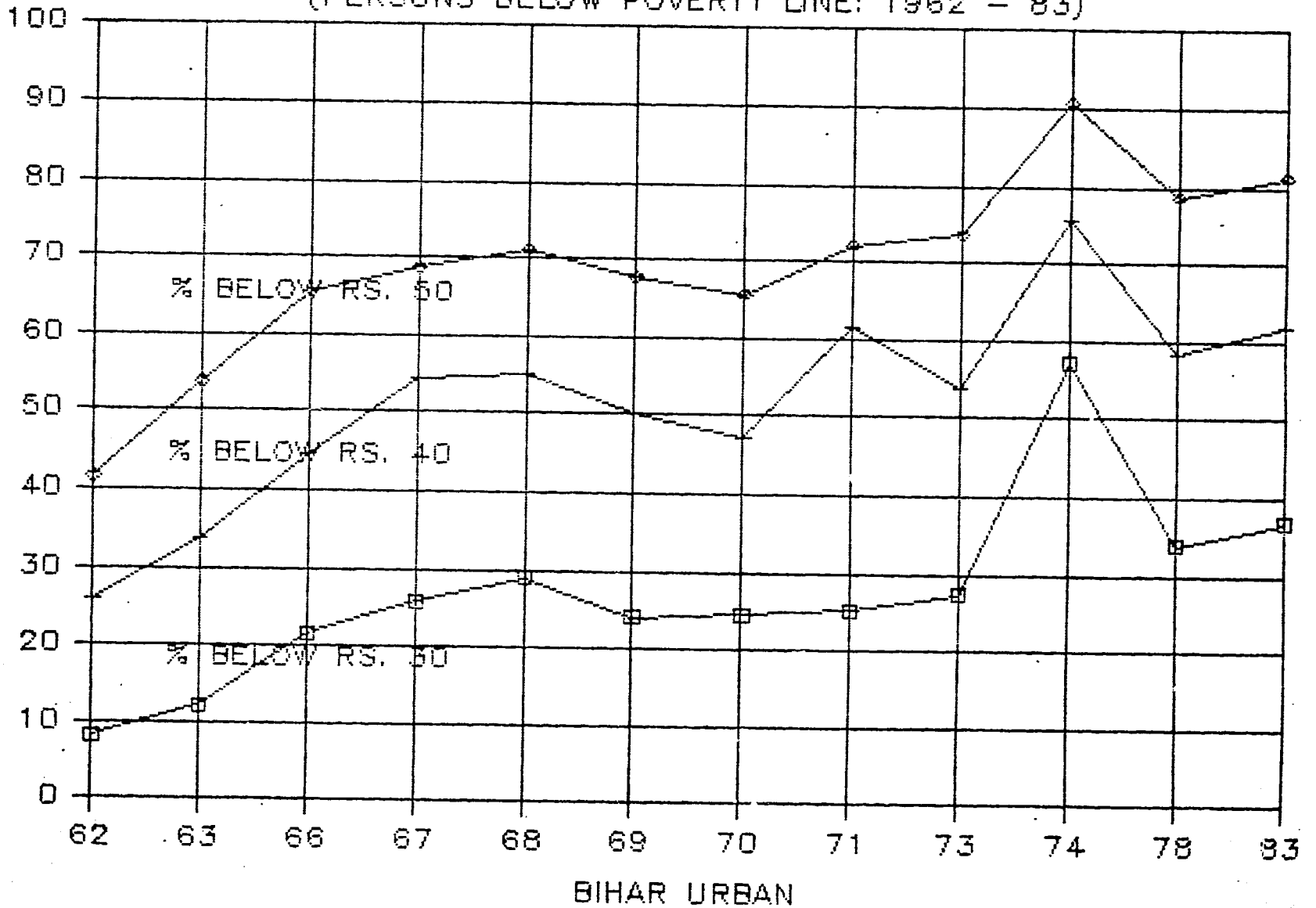

PER CAPITA PROTEIN INTAKE: 1962 - 83
BY DECILE GROUPS
PROTEIN INTAKE (GRAMS)
100
90
80
70
60
50
40
30
20
10
0
90%
70%
50%
30%
20%
10%
62
63
66
67
68
69
70
71
73
74
78
BIHAR URBAN

FIG.20

TRENDS IN CONSUMER EXPENDITURES

(PERSONS BELOW POVERTY LINE: 1962 – 83)